



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **38336** | Service: **DTV** | Call **WLIW** | Channel: **32 (UHF)** |
ID: | Sign:
File **0000025443**
Number:
FRN: **0018265660** | Date **05/23**
Submitted: **/2019**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
WNET Doing Business As: WNET	Robert A. Feinberg 825 EIGHTH AVENUE ATTN: GENERAL COUNSEL NEW YORK, NY 10019 United States	+1 (212) 560-6981	FEINBERG@WNET. ORG	Not-for- Profit

Reimbursement Contact Information

Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
Frank Graybill <i>Senior Director</i> <i>Engineering</i> <i>WNET</i>	825 Eighth Avenue New York, NY 10019 United States	+1 (212) 560- 3506	graybill@thirteen. org

**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	Relocate primary WLIW transmitter to WTC shared site in New York City. Retain Aux site in Plainview NY. Both Transmitters require replacement. WTC is a shared leased antenna. Plainview antenna requires replacement.

Transmitters

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

**Auxiliary
Transmitter****Add Transmitter Information**

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Auxiliary Backup
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	Affinity
	Year	2004
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	1 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	THU9-EVO
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	5 kW
	Justification for New Transmitter	Replacement of existing Aux transmitter (Thales Comark Affinity) which is no longer supported by manufacturer. To be installed as an Aux at Plainview Long Island.

**Auxiliary
Transmitter****Other Transmitter Costs**

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

	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Auxiliary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Mask Filter	Mask Filter for Channel 32
480V - 400V Step Down Transformer	480V - 400V 30 kVA Step down transformer for Transmitter Mains.
Transmitter Installation	Removal of existing Transmitter and installation of new Transmitter. Including Electrical, Conduit and plumbing costs.
Shipping costs	Shipping from Manufacturer to WLIW Plainview Long Island.
Commissioning and Proof	Commissioning and Proof of Aux Transmitter

**Primary
Transmitter**

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	Ultimate
	Year	2004
	Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power Capacity	5 kW

**Primary
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	THU9-EVO
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	19 kW
	Justification for New Transmitter	Existing Thales Comark Ultimate Transmitter is no longer supported by the manufacturer. See Attached. New TX to be installed at NYC World Trade Center. Quote Attached.

**Primary
Transmitter**

Other Transmitter Costs

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

	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter **Other Transmitter Cost Not Listed**

Name	Description
RF Switching	RF Switching between two Antennas, Combiners & Load.
Commissioning and Proof	Commissioning and Proof of primary Transmitter.
RF Test Load	RF Test Load, including interconnect line.
Shipping costs	Shipping cost from Manufacturer to Site. Including consolidation costs.

Transmitter Installation	Union Contractor installation of combiner and transmitter components at the WTC. Includes all electrical, mechanical and RF installation.
400V Step Down Transformer	480V - 400V 90 kVA step down transformer for Transmitter Mains.

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	Purchase New
	Antenna Use	Auxiliary (Backup)
	Description of Use	Auxiliary Backup
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this antenna currently shared with any other stations?	No
	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	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	98.0 kW

Manufacturer	
Model	TFU- 10DSC-R P234 DC
Year	1999

Auxiliary Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Auxiliary (Backup)
	Description of Use	Auxiliary Backup
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/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)	114.0 kW
	Manufacturer	
	Model	TLP-12J-R

Year	2019
Justification for New Antenna	Existing side mount antenna in use as a primary antenna is not Broadband and will not accommodate a change in channel from UHF 21 to 32.

Auxiliary Antenna

Other Antenna Costs

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

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

Other Antenna Cost Not Listed

Name	Description
Freight	Shipping and handling Estimate.
Repack Sweep	Engineer on-site for one day, travel expenses and report.

Primary Antenna

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Lease New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	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?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	89.9 kW
	Manufacturer	

Model	TFU- 26GTH-R P233
Year	2000

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 Broadcasting
	Is antenna shared?	Yes
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Bottom
	Polarization	Circular
	Type	Broadband Panel
	Number of Stations Supported	6
	Number of Panels/Bays	96
	Lower Limit	470.00 MHz
	Upper Limit	700.00 MHz
	Design power capacity in use	60.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	2000.0 kW
	Manufacturer	
	Model	PEP96L

Year	2016
Justification for New Antenna	New Building

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Type	Additional Module
	Number of channels supported	1
	Frequencies of channels supported	RF channel
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	No
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Enter a list of RF channel numbers.

RF Channel Number

**Primary
Antenna**

Other Antenna Cost Not Listed

Information not provided.

Transmission Line

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

Auxiliary Transmission Line

Add Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Line to Auxilliary Antenna
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmission currently shared with any other stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	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	300 feet per run

Auxiliary **New Transmission Line**
Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Auxiliary (Backup)
	Description of Use	Switch to Aux Antenna
	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 3/4 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	300 feet per run
	Justification for New Transmission Line	Existing line is not compatible with new channel assignment of 32

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

Name	Description
TX - TX Switch	Transmission Line custom pieces to interconnect the TX to the A Switch.

Primary
Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	Rigid
	Diameter	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	300 feet per run

Primary
Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	4 1/16 inches
	Other Diameter	N/A
	Segment Length	Other
	Other Segment Length	10 feet
	Number of parallel runs	2
	Length	140 feet per run
	Justification for New Transmission Line	New transmission lines required to each of the Primary and Backup Combiner inputs.

Primary
Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Transmission line TX - Switch - Load interconnect.	Transmission line custom pieces to interconnect the TX with the Switch and load.

**Tower
Equipment
And
Rigging
Costs**

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

**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	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	No
	One or more FM, AM or TV radio broadcaster(s)	N/A
	Others Types of Users	N/A
	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	1007205
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	40° 47' 19.4" N-
	Longitude (NAD83)	073° 27' 07.4" W-
	Overall Structure Height	324.80 feet
	Support Structure Height	266.73 feet
	Ground Elevation Above Mean Sea Level (AMSL)	235.89 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	WNET
Date Constructed	03/30/2004

Primary Tower

Tower Modification Costs

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

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Name	Description
Geological Survey	Geological Survey required to determine ANSI EIA/TIA-222-G code requirements.

**Outside
Professional Services Costs**

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	No
	Number of Hours	N/A
	Explanation	N/A
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	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes

	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	Yes
	Environmental Assessment	Yes
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	No
	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	No
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Local Zoning Permit Expeditor	Prepare Local Zoning Permit and File with Local Town Agency.

Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
Facility Expenses	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
Permit and Filing Costs	Local Zoning	Yes
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	No
	FCC Special Temporary Authority Application	No
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?	No
	Does this relocation require Equipment Storage?	No
	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
Internal Project Management	See attached.

Cost Information

Transmitters

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter THU9-EVO	\$1,018,443.75	\$638,543.75		\$238,923.75	
400V Step Down Transformer	<i>\$4,900.00</i>	\$4,900.00	(Cost in Rohde Proposal)	\$4,900.00	N/A
Transmitter Installation	<i>\$247,220.00</i>	\$247,220.00	Cost includes installation of TX, Combiner RF Lines & Switches, RF Load and Electrical Service,	N/A	N/A
Shipping costs	<i>\$19,123.75</i>	\$19,123.75	Includes shipping to consolidator Myat and shipping to WTC site. ((Cost in Rohde & Myat Proposals)	\$19,123.75	N/A
RF Test Load	<i>\$17,000.00</i>	\$17,000.00	(Cost in Rohde Proposal)	\$17,000.00	N/A
Commissioning and Proof	<i>\$13,500.00</i>	\$13,500.00	(Cost in Rohde Proposal)	\$13,500.00	N/A

RF Switching	\$32,700.00	\$32,700.00	Switching requires to switch between main and auxiliary antenna to allow for climbing and redundancy. (Cost in Rohde Proposal)	\$32,700.00	N/A
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	\$684,000.00	\$304,100.00	N/A	\$151,700.00	N/A
Auxiliary Transmitter THU9-EVO	\$328,500.00	\$195,000.00		\$194,390.00	
Commissioning and Proof	\$13,500.00	\$13,500.00	N/A	\$13,500.00	N/A
Shipping costs	\$5,000.00	\$5,000.00	Shipping from manufacturer to WLIW Transmitter location	\$5,000.00	N/A
480V - 400V Step Down Transformer	\$2,700.00	\$2,700.00	N/A	\$2,700.00	N/A
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	\$273,500.00	\$140,000.00	N/A	\$140,000.00	N/A
Mask Filter	\$4,800.00	\$4,800.00	N/A	\$4,800.00	N/A
Transmitter Installation	\$29,000.00	\$29,000.00	N/A	\$28,390.00	N/A
Sub-total	\$1,346,943.75	\$833,543.75	N/A	\$433,313.75	N/A

Total for all systems	\$2,174,157.85	\$1,721,701.44	N/A	\$828,657.84	N/A
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Components

Actual Information	
Description	File Name
400V Step Down Transformer	<div> <div>Component Description:</div> <div>Step Down Transformer (Partial of Total Invoice)</div> <div>Amount:</div> <div>\$4,900.00</div> </div>
Transmitter Installation	Information not provided.

Shipping costs

Component Description:

Shipping and Consolidation (and needs to be combined with other invoices from Myat and the Rhode and Schwarz invoice)

Amount:

\$1,630.00

Component Description:

Shipping and Consolidation (and needs to be combined with other invoices from Myat and the Rhode and Schwarz invoice)

Amount:

\$2,808.75

Component Description:

Shipping (Partial of Total Invoice) and needs to be combined with other invoices from Myat

Amount:

\$8,000.00

Component Description:

Shipping and Consolidation (and needs to be combined with other invoices from Myat and the Rhode and Schwarz invoice)

Amount:

\$6,685.00

RF Test Load	<div> <div>Component Description:</div> <div>RF Test Load (Partial of Total Invoice)</div> </div> <div> <div>Amount:</div> <div>\$17,000.00</div> </div>
Commissioning and Proof	<div> <div>Component Description:</div> <div>Commissioning and Proof (Partial of Total Invoice)</div> </div> <div> <div>Amount:</div> <div>\$13,500.00</div> </div>
RF Switching	<div> <div>Component Description:</div> <div>RF Output Switching (Partial of Total Invoice)</div> </div> <div> <div>Amount:</div> <div>\$32,700.00</div> </div>
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	<div> <div>Component Description:</div> <div>Partial of \$151,700 total submission for this line item.</div> </div> <div> <div>Amount:</div> <div>\$95,050.00</div> </div> <div> <div>Component Description:</div> <div>Partial of \$151,700 we are requesting for the total of this line item.</div> </div> <div> <div>Amount:</div> <div>\$56,650.00</div> </div>
Commissioning and Proof	<div> <div>Component Description:</div> <div>Rohde and Schwarz Plainview Transmitter Commissioning and Proof (Portion of \$41,500)</div> </div> <div> <div>Amount:</div> <div>\$13,500.00</div> </div>

Shipping costs	<div> Component Description: Rohde and Schwarz Plainview Shipping Cost (Portion of \$41,500)</div> <div> Amount: \$5,000.00</div>
480V - 400V Step Down Transformer	<div> Component Description: Rohde and Schwarz Plainview Transmitter -Step Down Transformer (Portion of \$41,500)</div> <div> Amount: \$2,700.00</div>
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	<div> Component Description: Rohde & Schwarz Plainview Transmitter (Portion of \$41,500)</div> <div> Amount: \$15,500.00</div> <div> Component Description: Rohde & Schwarz Plainview Transmitter</div> <div> Amount: \$124,500.00</div>
Mask Filter	<div> Component Description: Rohde and Schwarz - Plainview Transmitter - Mask Filter (Portion of \$41,500)</div> <div> Amount: \$4,800.00</div>

Transmitter Installation

Component Description: WLIW Plainview
Transmitter Install
Payment #2
Amount: \$11,050.00

Component Description: WLIW Plainview
Transmitter Install
Payment #1
Amount: \$14,500.00

Component Description: WLIW Plainview
Transmitter Install
Payment #3
Amount: \$2,840.00

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
Primary Antenna PEP96L	\$90,930.00	\$222,035.59		\$217,535.59	
UHF - High Power Top Mount Six Station broadband panel antenna elliptically or circularly polarized	<i>\$0.00</i>	\$0.00	Antenna is leased and shared with 6+ stations.	\$0.00	N/A
Sweep test of existing antenna	\$6,730.00	\$4,500.00	N/A	N/A	N/A
Adding a module to existing combiner (without antenna)	\$84,200.00	\$217,535.59	Adding a main and backup input module to existing combiner. Includes installation supervision and commissioning. Also includes "Air Freight" vs. "Sea Freight" from Australia	\$217,535.59	Shipped from Australia "Air Freight" vs "Sea Freight" which was on the original quote.
Auxiliary Antenna TLP-12J-R	\$146,000.00	\$60,094.00		\$2,869.50	
Repack Sweep	<i>\$6,400.00</i>	\$6,400.00	N/A	N/A	N/A
Freight	<i>\$2,760.00</i>	\$2,760.00	N/A	N/A	N/A

Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$7,650.00	N/A	N/A	N/A
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	\$89,400.00	\$25,773.00	See attached Dielectric proposal.	N/A	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$9,611.00	N/A	N/A	N/A

Sweep test of existing antenna	\$6,730.00	\$2,900.00	Please see the Attached Advent invoice for a line sweep which has already been performed.	\$2,869.50	N/A
Sub-total	\$236,930.00	\$282,129.59	N/A	\$220,405.09	N/A
Total for all systems	\$2,174,157.85	\$1,721,701.44	N/A	\$828,657.84	N/A

Components

Actual Information	
Description	File Name
UHF - High Power Top Mount Six Station broadband panel antenna elliptically or circularly polarized	Information not provided.
Sweep test of existing antenna	Information not provided.

Adding a module to existing combiner (without antenna)	<div> <div> Component Description: </div> <div> Partial of Combiner Modules - We acknowledge that we are submitting for less than the invoice amount. The amount requested differs from the invoice amount due to the tax. WNET/WLIW is tax exempt. Form attached. </div> </div> <div> Amount: </div> <div> \$28,680.00 </div> <div> Component Description: </div> <div> Partial of Combiner Modules Invoice with invoice difference explanation </div> <div> Amount: </div> <div> \$188,855.59 </div>
Repack Sweep	Information not provided.
Freight	Information not provided.
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	Information not provided.
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.

Sweep test of existing antenna	<div data-bbox="702 168 1434 481"><div data-bbox="702 168 1021 212">Component Description:</div><div data-bbox="1149 168 1434 448">Sweep of Auxiliary Antenna line. Main line and Antenna will not be installed at this site. (50% of invoice amount)</div><div data-bbox="702 448 1434 481">Amount: \$2,869.50</div></div>
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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
Primary Transmission Line	\$45,260.00	\$44,140.00		\$0.00	
Transmission line TX - Switch - Load interconnect.	\$5,500.00	\$5,500.00	Misc. Line lengths & elbows between TX and Switch Assembly and load.	N/A	N/A
Rigid Transmission Line - copper, 4 1 /16"	\$39,760.00	\$38,640.00	N/A	N/A	N/A
Auxiliary Transmission Line	\$66,377.10	\$58,985.10		\$0.00	
TX - TX Switch	\$5,777.10	\$5,777.10	N/A	N/A	N/A
Rigid Transmission Line - copper, 6 1/8"	\$60,600.00	\$53,208.00	Cost includes shipping.	N/A	N/A
Sub-total	\$111,637.10	\$103,125.10	N/A	\$0.00	N/A
Total for all systems	\$2,174,157.85	\$1,721,701.44	N/A	\$828,657.84	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 GTOWER	\$265,377.00	\$303,318.00		\$171,118.00	
Geological Survey	\$10,577.00	\$10,577.00	See Attached Invoice.	\$10,577.00	N/A
Short Tower (less than 500')	\$84,200.00	\$132,200.00	Rigging and installation cost for the Auxiliary antenna in Plainview.	N/A	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$152,386.00	Please See attached proposal.	\$152,386.00	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$8,155.00	See Attached Invoice	\$8,155.00	N/A
Sub-total	\$265,377.00	\$303,318.00	N/A	\$171,118.00	N/A
Total for all systems	\$2,174,157.85	\$1,721,701.44	N/A	\$828,657.84	N/A

Components

Actual Information	
Description	File Name

Geological Survey	<div> <div>Component Description:</div> <div>Supervision, Labor and equipment to perform a geological survey for the foundations.</div> </div> <div> <div>Amount:</div> <div>\$10,577.00</div> </div>
Short Tower (less than 500')	Information not provided.
Minor tower reinforcement /modifications	<div> <div>Component Description:</div> <div>Tower Restructure Payment 2.</div> </div> <div> <div>Amount:</div> <div>\$38,000.00</div> </div>
	<div> <div>Component Description:</div> <div>Tower Restructure Payment 1.</div> </div> <div> <div>Amount:</div> <div>\$101,651.00</div> </div>
	<div> <div>Component Description:</div> <div>Tower Restructure Payment 3 Final.</div> </div> <div> <div>Amount:</div> <div>\$12,735.00</div> </div>
Structural engineering tower load study for well documented tower	<div> <div>Component Description:</div> <div>Tower Restructure Engineering Analysis</div> </div> <div> <div>Amount:</div> <div>\$8,155.00</div> </div>

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$141,235.00	\$133,850.00		\$1,600.00	
Local Zoning Permit Expeditor	<i>\$1,600.00</i>	\$1,600.00	N/A	\$1,600.00	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	N/A	N/A
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	\$10,520.00	\$10,000.00	N/A	N/A	N/A
NEPA Section 106 environmental review, if needed	\$6,310.00	\$6,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	N/A	N/A

Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Sub-total	\$141,235.00	\$133,850.00	N/A	\$1,600.00	N/A
Total for all systems	\$2,174,157.85	\$1,721,701.44	N/A	\$828,657.84	N/A

Components

Actual Information
Description

File Name

Local Zoning Permit Expeditor	<p>Component Description:</p> <p>Amount:</p>	<p>Local Zoning Permit</p> <p>\$1,600.00</p>
Comprehensive coverage verification via field study, if needed	Information not provided.	
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	Information not provided.	
NEPA Section 106 environmental review, if needed	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	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	Information not provided.
Prepare and or review reimbursement form	Information not provided.
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.

Cost Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$72,035.00	\$65,735.00		\$2,221.00	
Internal Project Management	<i>\$32,000.00</i>	\$32,000.00	See attached Exhibit.	N/A	N/A
MVPD Notification of Channel Change	<i>\$1,500.00</i>	\$1,500.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$4,985.00</i>	\$4,985.00	Please see attached Estimate Detail.	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$12,000.00</i>	\$12,000.00	Disposal of existing transmitters and installation debris for both main and aux.	N/A	N/A
Local Zoning	<i>\$10,000.00</i>	\$10,000.00	N/A	\$2,221.00	N/A
DTV Medical Facility Notification	\$11,550.00	\$5,250.00	N/A	N/A	N/A
Sub-total	\$72,035.00	\$65,735.00	N/A	\$2,221.00	N/A
Total for all systems	\$2,174,157.85	\$1,721,701.44	N/A	\$828,657.84	N/A

Components

Actual Information	
Description	File Name
Internal Project Management	Information not provided.
MVPD Notification of Channel Change	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
Local Zoning	<div> <div> Component Description: </div> <div> Town of Oyster Bay Construction Permit Application Payment #1 (Copy of Cancelled Check included per FCC request) </div> </div> <div> Amount: </div> <div> \$100.00 </div> <div> Component Description: </div> <div> Moved to Professional Services as directed by Repack Administrator </div> <div> Amount: </div> <div> N/A </div> <div> Component Description: </div> <div> Town of Oyster Bay Permit Application Fee. Payment 2 Final and cancelled check as requested </div> <div> Amount: </div> <div> \$2,121.00 </div>
DTV Medical Facility Notification	Information not provided.

**Cost
Information**

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$2,174,157.85	\$1,721,701.44	\$828,657.84

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

4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

<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>Frank Graybill <i>Senior Director Engineering</i></p> <p>05/23/2019</p>

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	<p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>	
		<ol style="list-style-type: none"> 1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 	

4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD) .
6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Frank Graybill <i>Senior Director Engineering</i></p> <p>05/23/2019</p>

Attachments