Approved by OMB (Office of Management and Budget) 3060-1178

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: **52628** | Service: **DTV** | Call Sign: **WPXK-TV** | Channel: **18 (UHF)**

File Number: **0000028465**

FRN: **0001808468** | Date Submitted: **08/23/2021**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
ION TELEVISION LICENSE, LLC Doing Business As: ION TELEVISION LICENSE, LLC	601 CLEARWATER PARK ROAD WEST PALM BEACH, FL 33401 United States	+1 (561) 682-4110	BIANCAFRYE@IONMEDIA.COM	Corporation

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
The Preparer is same as the reimbursement contact.			

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 from ASR #1052156 to ASR #1042631. Replace non-retunable transmitter, install side mount antenna and transmission line to operate on post-repack channel.

Transmitters

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

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	DCX
	Year	2000
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	40 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	HPTV-PRLX-U28
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	45 kW
	Justification for New Transmitter	See attached Transmitter Exhibits. See attached Transmitter Upgrade Disclaimer.

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	500 kVA
	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?	Yes
	Type	Cooling Only
	Size	5 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	Yes
	Size	450.0 square feet
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
Removal of Existing Equipment	Removal of existing transmitters and equipment / Site Prep
RF Interconnect	Interconnect between RF system and transmission line

Antennas

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

Primary Antenna

Add Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Owner	Amercian Tower
	Site	N/A
	Is this antenna currently shared with any other stations?	Yes
	Is this 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	Not in Stack
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	3
	Number of Panels	16
	Design power capacity in use	75.0 %
	Lower Limit	470.00 MHz
	Upper Limit	698.00 MHz
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW

Manufacturer	
Model	TUDO5-16 /80H-2-B
Year	2010

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

Facility ID	Call Sign
71082	WATE-TV
19200	WTNZ

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?	Yes
	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	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)	1000.0 kW
	Manufacturer	

	Model	TFU-27 JSC /VP-R CT150
	Year	2019
	Justification for New Antenna	Current slot antenna cannot be re-channeled

Primary 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 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?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Primary Antenna

Other Antenna Cost Not Listed

Information not provided.

Interim Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	Yes
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Slot
	Number of Stations Supported	3
	Number of Panels/Bays	16
	Lower Limit	470.00 MHz
	Upper Limit	698.00 MHz
	Design power capacity in use	75.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	250.0 kW
	Manufacturer	
	Model	TFU-WB-16
	Year	2017

	Justification for New Antenna	Final design of equip isn't complete, ION included estimates based on current understanding of design. 2 repack stations share equip, ION responsible for 50% of the costs assoc with shared equip. See AT and Shared Equipment Exhibits for more information.

Interim 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?	B
	Feed Line Size	6 1/8 inches

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

Interim Antenna

Other Antenna Cost Not Listed

Information not provided.

Transmission Line

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

Primary Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	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	
	Type	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	2
	Length	1514 feet per run

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

Facility ID	Call Sign
71082	WATE-TV
19200	WTNZ

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	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1480 feet per run
	Justification for New Transmission Line	See attached Dielectric Quote #800060CMZ-4.

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Information not provided.

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	Move Equipment
	Tower Use	Primary (Main)
	Description of Use	N/A
	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	No
	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	1052156
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	36° 00' 12.8" N-
	Longitude (NAD83)	083° 56' 34.0" W-
	Overall Structure Height	1456.02 feet
	Support Structure Height	1332.99 feet
	Ground Elevation Above Mean Sea Level (AMSL)	1393.03 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	SpectraSite Communications, LLC. through American Towers, LLC.
Date Constructed	01/01/1955

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
81317	WYLV	FM
22014	WOFM	FM
19200	WTNZ	DTV
71082	WATE-TV	DTV

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
Structural Study	Structural study required by tower landlord

Primary Tower

Add 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?	Terrain Constrained
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	No
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1042631
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	36° 00' 19.0" N-
	Longitude (NAD83)	083° 56' 23.0" W-
	Overall Structure Height	1503.92 feet
	Support Structure Height	1417.96 feet
	Ground Elevation Above Mean Sea Level (AMSL)	1345.13 feet
	Structure Type	TOWER - Free Standing or Guyed Structure

Tower Owner	WBIR-TV, LLC
Date Constructed	01/01/1980

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
69161	WUOT	FM
46984	WBIR-TV	DTV

Primary Tower

Tower Modification Costs

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

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Name	Description
Structural Analysis	Structural analysis

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	58
	Explanation	Required by Landlord, see attached AT Exhibit
Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes

	For Auxiliary Facility	No
	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	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	No
	Number of Days	N/A
	Justification	N/A

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Impact Study	LPTV Impact Analysis

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	Yes
	BLM or NFS Coordination	Yes
	FCC Construction Permit Minor Change	No
	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

Other Expenses Not Listed

Name	Description
Civil Engineering Services	Civil engineering services
Obtain building permits from local zoning authorities	Obtain building permits from local zoning authorities (cost of preparation, submission, and prosecution of necessary forms or applications per customer)(See Services agreement)(if needed)
Sales Tax	Sales tax paid directly to Tennessee Department of Revenue for repack equipment

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 Co Justificati
Primary Transmitter HPTV-PRLX-U28	**$1,636,400.00**	**$1,111,406.01**		**$1,061,406.01**	
RF Interconnect	***$25,000.00***	$25,000.00	N/A	N/A	N/A
Transformer 3 phase /480v - 500 KVA	$48,400.00	$49,875.01	Please see ESG Electrical Design and Joseph Construction 19064	$49,875.01	N/A
Removal of Existing Equipment	***$25,000.00***	$25,000.00	N/A	N/A	N/A
5 Ton system	$20,250.00	$40,596.00	Cost to replace HVAC at new transmitter location. Please see attached Perfection Group Quote #RC-419CEF and Perfection 10 Ton HVAC Quote. Additional HVAC tonnage was require for two cabinet transmitter system	$40,596.00	N/A
Other -- Building Addition Size: 450.0	***$44,750.00***	$44,750.00	Please see Volunteer Paving Heat Exchanger Pad WPXK for concrete pad needed for transmitter equipment	$44,750.00	N/A

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	$1,473,000.00	$926,185.00	See attached Hitachi Comark Quote #P3473PRLXU30-011818-R2 and Comark P4375 Heat Exchanger Move Quote	$926,185.00	N/A
Sub-total	$1,636,400.00	$1,111,406.01	N/A	$1,061,406.01	N/A
Total for all systems	$3,325,988.77	$2,611,661.93	N/A	$2,165,463.98	N/A

Components

Actual Information Description	File Name
RF Interconnect	Information not provided.
Transformer 3 phase/480v - 500 KVA	**Component Description:** Retainage payment for installation of electrical equipment related to transmitter. Explanation of variance and supporting documentation is attached. This invoice has been paid. **Amount:** $1,244.25

Component Description:	50% progress payment for electrical design drawings necessary for permitting the electrical work. Supporting documentation is attached.
Amount:	$4,200.00
Component Description:	40% progress payment for electrical design drawings necessary for permitting the electrical work. Supporting documentation is attached.
Amount:	$3,360.00
Component Description:	First progress payment for installation of electrical equipment related to transmitter. Explanation of variance and supporting documentation is attached. This invoice has been paid.
Amount:	$19,400.00

	Component Description: **Amount:**	10% balance payment for electrical design drawings necessary for permitting the electrical work. Supporting documentation is attached. This invoice has been paid. $840.00
	Component Description: **Amount:**	Second progress payment for installation of electrical equipment related to transmitter. Explanation of variance and supporting documentation is attached. This invoice has been paid. $20,830.76
Removal of Existing Equipment	Information not provided.	

5 Ton system		
	Component Description:	Cost of additional HVAC for transmitter. Supporting documentation is attached. This invoice has been paid.
	Amount:	$15,379.00
	Component Description:	Balance due payment of replacement of HVAC at new transmitter location. Supporting documentation is attached.
	Amount:	$18,913.00
	Component Description:	25% "upon agreement acceptance" payment of replacement of HVAC at new transmitter location. Supporting documentation is attached.
	Amount:	$6,304.00

Other -- Building Addition Size: 450.0	**Component Description:**	Cost of retaining wall and pad for transmitter heat exchangers. Supporting documentation is attached. This invoice has been paid.
	Amount:	$44,750.00

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	**Component Description:**	Cost of field engineering for placement of transmitter heat exchangers. Supporting documentation is attached. This invoice has been paid.
	Amount:	$13,025.00
	Component Description:	20% "due upon proof of performance" payment on Comark transmitter. Supporting documentation attached.
	Amount:	$119,776.00
	Component Description:	50% "progress" payment on Comark transmitter. Supporting documentation attached.
	Amount:	$495,865.00
	Component Description:	30% "deposit" payment for Comark Transmitter. Supporting documentation attached.
	Amount:	$297,519.00

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
Interim Antenna TFU-WB-16	**$76,680.00**	**$68,375.00**		**$0.00**	
Sweep test of existing antenna	$6,730.00	$4,000.00	N/A	N/A	N/A
UHF - High Power, Side Mount, basic slot antenna, 16 bay,, 250 kW input, directional,, horizontally polarized	***$56,250.00***	$56,250.00	N/A	N/A	N/A
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	$13,700.00	$8,125.00	N/A	N/A	N/A
Primary Antenna TFU-27 JSC /VP-R CT150	**$208,092.00**	**$204,360.00**		**$204,360.00**	

Side mount brackets for high power antennas (if not included in antenna base cost)	$23,150.00	$21,750.00	Cost for antenna mounting brackets. Please see attached Dielectric Quote #800060CMZ-4.	$21,750.00	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	$12,300.00	$10,298.00	Cost of elbow complex kit. Please see Dielectric Quote #800060CMZ-4 attached.	$10,298.00	N/A
Sweep test of existing antenna	$6,730.00	$6,400.00	Cost of repack sweep. Please see Dielectric Quote #800060CMZ-4 attached.	$6,400.00	N/A
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, elliptically or circularly polarized	***$165,912.00***	$165,912.00	Cost for UHF side mount one station elliptically polarized antenna (Model TFU-27 JSC/VP-R CT150). VPol charges of $21,750 not included in cost estimate. Please see Dielectric Quote #800060CMZ-4 attached.	$165,912.00	N/A
Sub-total	$284,772.00	$272,735.00	N/A	$204,360.00	N/A

Total for all systems	$3,325,988.77	$2,611,661.93	N/A	$2,165,463.98	N/A

Components

Actual Information Description	File Name
Sweep test of existing antenna	Information not provided.
UHF - High Power, Side Mount, basic slot antenna, 16 bay,, 250 kW input, directional,, horizontally polarized	Information not provided.
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.

Side mount brackets for high power antennas (if not included in antenna base cost)	**Component Description:**	25% "deposit" for antenna mounting brackets. Explanation of Variance and supporting documentation attached. This invoice has been paid.
	Amount:	$5,437.50
	Component Description:	65% "prior to ship" for antenna mounting brackets. Explanation of Variance and supporting documentation attached.
	Amount:	$14,137.50
	Component Description:	10% "after repack sweep" for antenna mounting brackets. Supporting documentation attached. This invoice has been paid.
	Amount:	$2,175.00

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	**Component Description:**	25% "deposit" for primary elbow complex. Explanation of Variance and supporting documentation attached. This invoice has been paid.
	Amount:	$2,574.50
	Component Description:	65% "prior to ship" for primary elbow complex. Explanation of Variance and supporting documentation attached.
	Amount:	$6,693.70
	Component Description:	10% "after repack sweep" for primary elbow complex. Supporting documentation attached.
	Amount:	$1,029.80

Sweep test of existing antenna	**Component Description:**	25% "deposit" for repack sweep of primary antenna operations. Explanation of Variance and supporting documentation attached. This invoice has been paid.
	Amount:	$1,600.00
	Component Description:	10% "balance upon repack sweep" payment for repack sweep. Supporting documentation is attached. This invoice has been paid.
	Amount:	$640.00
	Component Description:	65% "prior to ship" for repack sweep of primary antenna operations. Explanation of Variance and supporting documentation attached.
	Amount:	$4,160.00

UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, elliptically or circularly polarized	**Component Description:**	25% "deposit" for primary antenna. Explanation of Variance and supporting documentation attached. This invoice has been paid.
	Amount:	$41,478.00
	Component Description:	65% "prior to ship" for primary antenna. Explanation of Variance and supporting documentation attached.
	Amount:	$107,842.80
	Component Description:	10% "after repack sweep" for primary antenna. Explanation of variance and supporting documentation attached.
	Amount:	$16,591.20

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	**$298,960.00**	**$203,010.10**		**$202,989.16**	
Rigid Transmission Line - copper, 6 1/8"	$298,960.00	$203,010.10	Cost of primary transmission line. Please see attached Dielectric Quote #800060CMZ-4. Please see Dielectric WPXK Antenna Change Order.	$202,989.16	N/A
Sub-total	$298,960.00	$203,010.10	N/A	$202,989.16	N/A
Total for all systems	$3,325,988.77	$2,611,661.93	N/A	$2,165,463.98	N/A

Components

Actual Information Description	File Name
Rigid Transmission Line - copper, 6 1/8"	

Component Description:	25% "deposit" for primary transmission line / 25% "deposit" for primary transmission lines additional cut pieces. Supporting documentation attached. This invoice has been paid.
Amount:	$47,294.28
Component Description:	Cost for additional piece of cut transmission line. Supporting documentation is attached.
Amount:	$1,718.50
Component Description:	65% "prior to ship" for primary transmission line / 65% "prior to ship" for primary transmission lines additional cut pieces. Supporting documentation attached.
Amount:	$131,956.83

Component Description:	10% "after repack sweep" payment for one transmission line cut piece. Supporting documentation is attached. This invoice has been paid
Amount:	$171.85
Component Description:	10% "after repack sweep" payment for two transmission line cut pieces. Supporting documentation is attached.
Amount:	$343.70
Component Description:	10% "after repack sweep" payment for two transmission line cut pieces. Supporting documentation is attached.
Amount:	$343.70
Component Description:	Cost for additional piece of cut transmission line. Supporting documentation is attached.
Amount:	$1,718.50

Component Description:	10% "after repack sweep" for primary transmission line. Explanation of variance and supporting documentation attached.
Amount:	$19,269.95
Component Description:	10% "after repack sweep" payment for one transmission line cut piece. Supporting documentation is attached.
Amount:	$171.85

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 C Justifica
Primary Tower TOWER	**$453,350.00**	**$454,376.25**		**$454,376.25**	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	$421,000.00	$439,856.25	Cost for tower rigging services. Please see Worldwide Communications Quote #S-19-932 attached. Cost estimate includes sales tax of $36,676.25, but does not include $20k deposit to secure tower services (currently on other tower). And Worldwide #S-19-978	$439,856.25	N/A
Structural Analysis	***$6,050.00***	$6,050.00	Cost of structural analysis and report. Please see Tower Engineering Company Quote #20180727 attached. Please also see attached Tower Engineering Structural Re-analysis Quote dated 7/29/2019.	$6,050.00	N/A

Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	$26,300.00	$8,470.00	Cost of structural observation. Please see Tower Engineering Company Quote #20180727 attached.	$8,470.00	N/A
Primary Tower GTOWER	**$214,420.00**	**$128,920.00**		**$23,920.00**	
Structural Study	***$3,920.00***	$3,920.00	Operational study required by tower landlord	$3,920.00	N/A
Tall Tower (greater than 500')	$210,500.00	$125,000.00	See AT Exhibit for more information.	$20,000.00	N/A
Sub-total	$667,770.00	$583,296.25	N/A	$478,296.25	N/A
Total for all systems	$3,325,988.77	$2,611,661.93	N/A	$2,165,463.98	N/A

Components

Actual Information Description	File Name

Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	**Component Description:**	75% payment (less $20,000 deposit) for tower services. Supporting documentation is attached.
	Amount:	$282,375.00
	Component Description:	Balance due payment for tower services. Supporting documentation is attached.
	Amount:	$130,801.25
	Component Description:	Cost to cut old existing antenna into separate pieces for removal. Supporting documentation is attached. This invoice has been paid.
	Amount:	$26,680.00

Structural Analysis	**Component Description:**	Cost of rigorous analysis. Supporting documentation is attached. This invoice has been paid.
	Amount:	$1,403.75
	Component Description:	Cost of structural re-analysis to change legs for side mounted antenna. Supporting documentation is attached.
	Amount:	$1,300.00
	Component Description:	Cost for rigorous analysis. Supporting documentation is attached. This invoice has been paid.
	Amount:	$3,346.25
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	**Component Description:**	Cost of structural observation. Supporting documentation is attached. This invoice has been paid.
	Amount:	$8,470.00

Structural Study	**Component Description:**	Cost of structural tower study required by landlord. Supporting documentation is attached. This invoice has been paid.
	Amount:	$3,920.00
Tall Tower (greater than 500')	**Component Description:**	Down payment associated with securing tower service. Note that amount is not additional to cost of tower rigging and will be deducted from total cost of tower rigging at the time it is quoted. Supporting documentation attached. This invoice has been paid.
	Amount:	$20,000.00

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justificatio
Outside Professional Services	**$166,664.00**	**$178,856.80**		**$38,474.79**	
Impact Study	***$500.00***	$500.00	Cost of LPTV impact analysis	$500.00	N/A
RF Exposure Measurements	$21,050.00	$20,000.00	N/A	N/A	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 - Negotiation of lease and other matters for shared locations	$4,210.00	$4,000.00	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 - Prepare and File FCC Form 2100 (main), Construction Permit Application	$5,260.00	$5,000.00	N/A	$4,742.99	N/A
Prepare request for Special Temporary Authorization	$2,050.00	$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
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	$3,155.00	$3,000.00	N/A	$1,500.00	N/A

Perform engineering study for new channel assignment and antenna development	$7,360.00	$5,000.00	See AT Exhibits for more information.	$125.00	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
Prepare and or review reimbursement form	$2,630.00	$2,500.00	N/A	$0.00	N/A
Project management of the transition	$9,164.00	$31,606.80	Please see Joseph Construction 19064	$31,606.80	N/A
Sub-total	$166,664.00	$178,856.80	N/A	$38,474.79	N/A
Total for all systems	$3,325,988.77	$2,611,661.93	N/A	$2,165,463.98	N/A

Components

Actual Information Description	File Name

Impact Study	**Component Description:** **Amount:** **Component Description:** **Amount:**	Cost of LPTV impact analysis. This invoice has been paid. $500.00 Cost of LPTV impact analysis. This invoice has been paid. $500.00
RF Exposure Measurements	Information not provided.	
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 - 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 - Prepare and File FCC Form 2100 (main), Construction Permit Application	**Component Description:** <

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	**Component Description:** **Amount:**	Cost of RF consultant preparation of engineering part of FCC Form 2100. Hourly supporting documentation attached. This invoice has been paid. $1,500.00
Perform engineering study for new channel assignment and antenna development	**Component Description:** **Amount:** **Component Description:** **Amount:**	Cost of RF consultant work for new channel assignment and antenna development. Hourly supporting documentation attached. This invoice has been paid. $62.50 Cost of RF consultant work for new channel assignment and antenna development. Hourly supporting documentation attached. This invoice has been paid. $62.50
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:**	Retainage payment for project management. Explanation of variance and supporting documentation is attached. This invoice has been paid.
	Amount:	$948.21
	Component Description:	Second progress payment for project management. Explanation of variance and supporting documentation is attached. This invoice has been paid.
	Amount:	$19,988.59
	Component Description:	First progress payment for project management. Explanation of variance and supporting documentation is attached. This invoice has been paid.
	Amount:	$10,670.00

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 Cos Justificati
Other Expenses	**$271,422.77**	**$262,357.77**		**$179,937.77**	
Sales Tax	***$127,667.33***	$127,667.33	Sales tax paid directly to Tennessee Department of Revenue. Please see Knoxville - Repack Sales Tax spreadsheet	$127,667.33	N/A
Obtain building permits from local zoning authorities	***$750.00***	$750.00	See AT Exhibits for more information.	N/A	N/A
Civil Engineering Services	***$6,500.00***	$6,500.00	Cost for civil engineering services. Please see attached C&ME Proposal for Civil Design Services.	$6,500.00	N/A
MVPD Notification of Channel Change	***$800.00***	$800.00	N/A	$800.00	N/A

Develop and air announcement of upcoming channel change	***$0.00***	$0.00	The amount is yet to be determined (TBD) and ION will submit on-air announcement costs when finalized.	N/A	N/A
Equipment Storage	***$10,000.00***	$10,000.00	N/A	$7,485.00	N/A
Equipment Delivery and Handling Charges	***$33,625.44***	$33,625.44	This is what ION has been billed by vendors to deliver equipment needed to meet repack deadline.	$33,625.44	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	***$15,000.00***	$15,000.00	N/A	$1,360.00	N/A
BLM or NFS Coordination	***$25,000.00***	$25,000.00	N/A	N/A	N/A
Non-zoning permits	***$15,000.00***	$15,000.00	N/A	N/A	N/A
Local Zoning	***$25,000.00***	$25,000.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	$195.00	$190.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	$335.00	$325.00	N/A	N/A	N/A

DTV Medical Facility Notification	$11,550.00	$2,500.00	N/A	$2,500.00	N/A
Sub-total	$271,422.77	$262,357.77	N/A	$179,937.77	N/A
Total for all systems	$3,325,988.77	$2,611,661.93	N/A	$2,165,463.98	N/A

Components

Actual Information Description	File Name
Sales Tax	**Component Description:** Sales tax paid directly to Tennessee Department of Revenue for repack equipment. Supporting documentation and explanation of variance are attached. This one time payment has been made. **Amount:** $124,927.33 **Component Description:** Sales tax paid directly to the Tennessee Department of Revenue for repack equipment. Supporting documentation is attached. This one time payment has been made. **Amount:** $2,740.00
Obtain building permits from local zoning authorities	Information not provided.

Civil Engineering Services	**Component Description:** **Amount:**	Cost for civil engineering services. Supporting documentation is attached. $6,500.00
MVPD Notification of Channel Change	**Component Description:** **Amount:**	Cost of MVPD notifications of channel change through Widelity Inc. Supporting documentation attached. $800.00
Develop and air announcement of upcoming channel change	Information not provided.	

Equipment Storage	**Component Description:**	Cost of fencing to surround storage /staging area of transmission line and antenna. Supporting documentation and receipt is attached. This has been paid.
	Amount:	$4,390.00
	Component Description:	Cost to store main antenna until installation. Supporting documentation is attached.
	Amount:	$3,095.00
	Component Description:	Cost to store main antenna package until delivery. Supporting documentation is attached. This invoice has been paid.
	Amount:	$3,095.00
Equipment Delivery and Handling Charges	**Component Description:**	90% balance due payment for freight charges shipping cut piece of transmission line. Supporting documentation is attached.
	Amount:	$536.45

Component Description:	90% balance due payment for freight charges shipping cut piece of transmission line. Supporting documentation is attached.
Amount:	$642.42
Component Description:	Cost of freight for main antenna package equipment. Supporting documentation is attached. This invoice has been paid.
Amount:	$10,243.77
Component Description:	Cost of freight for one transmission line cut piece. Supporting documentation and cover letter for expedited freight is attached. This invoice has been paid.
Amount:	$59.61
Component Description:	Cost of freight for parts of main antenna package. Supporting documentation and cover letter for expedited freight is attached. This invoice has been paid.
Amount:	$3,185.13

Component Description:	Cost of shipping and handling for transmitter package. Supporting documentation is attached. This invoice has been paid.
Amount:	$16,601.23
Component Description:	Cost of freight for main antenna. Supporting documentation is attached.
Amount:	$10,243.77
Component Description:	Cost of freight for parts of main antenna package. Supporting documentation and cover letter for expedited freight is attached. This invoice has been paid.
Amount:	$2,285.44
Component Description:	Cost of freight for antenna mounting brackets. Supporting documentation and cover letter for expedited freight is attached. This invoice has been paid.
Amount:	$71.39

Disposal Costs (for equipment and other waste, net of any salvage value)	**Component Description:** **Amount:**	Cost to dispose of chemicals from pre-repack equipment. Supporting documentation is attached. This invoice has been paid. $185.00
	Component Description: **Amount:**	Cost to dispose of chemicals from pre-repack equipment. Supporting documentation is attached. This invoice has been paid. $1,175.00
BLM or NFS Coordination	Information not provided.	
Non-zoning permits	Information not provided.	
Local Zoning	Information not provided.	
FCC Filing Fees - Special Temporary Authorization request	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
DTV Medical Facility Notification	**Component Description:** **Amount:**	Cost of medical notification for repack channel change. Supporting documentation is attached. This invoice has been paid. $2,500.00

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$3,325,988.77	$2,611,661.93	$2,165,463.98

Reimbursement Status

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

Certification

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

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

	8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.	
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**Mario Vasquez** *Vice President - Finance, Operations* 08/23/2021

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).	
	1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.	

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

	8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission. 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.	
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**Mario Vasquez** *Vice President - Finance, Operations* 08/23/2021

Attachments