



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **52628** | Service: **DTV** | Call **WPXK-TV** | Channel: **18 (UHF)** |
ID:
File **0000028465**
Number:
FRN: **0001808468** | Date **11/06**
Submitted: **/2019**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
ION MEDIA KNOXVILLE LICENSE, INC. Doing Business As: ION MEDIA KNOXVILLE LICENSE, INC.	Bianca Frye 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 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
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	Americian 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-channelled

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.
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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
71082	WATE-TV	DTV
22014	WOFM	FM
19200	WTNZ	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

Information not provided.

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**

Section	Question	Response
Services Costs 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**

Services not provided.

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
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)
Civil Engineering Services	Civil engineering services

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	\$1,591,650.00	\$1,034,377.00		\$945,937.00	
5 Ton system	\$20,250.00	\$25,217.00	Cost to replace HVAC at new transmitter location. Please see attached Perfection Group Quote #RC- 419CEF.	\$25,217.00	N/A
Transformer 3 phase /480v - 500 KVA	\$48,400.00	\$46,000.00	N/A	\$7,560.00	N/A
Removal of Existing Equipment	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
RF Interconnect	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$913,160.00	See attached Hitachi Comark Quote #P3473PRLXU30- 011818-R2.	\$913,160.00	N/A
Sub-total	\$1,591,650.00	\$1,034,377.00	N/A	\$945,937.00	N/A
Total for all systems	\$3,131,371.34	\$2,361,893.69	N/A	\$1,860,583.74	N/A

Components

Actual Information	
Description	File Name

5 Ton system

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

Transformer 3 phase/480v - 500 KVA	<div data-bbox="708 174 1353 607"> <p>Component Description: 50% progress payment for electrical design drawings necessary for permitting the electrical work. Supporting documentation is attached.</p> <p>Amount: \$4,200.00</p> </div> <div data-bbox="708 712 1353 1144"> <p>Component Description: 40% progress payment for electrical design drawings necessary for permitting the electrical work. Supporting documentation is attached.</p> <p>Amount: \$3,360.00</p> </div>
Removal of Existing Equipment	Information not provided.
RF Interconnect	Information not provided.

UHF - Liquid Cooled Solid
State Transmitter 35 - 50
kW

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	
UHF - High Power, Side Mount, basic slot antenna, 16 bay,, 250 kW input, directional,, horizontally polarized	<i>\$56,250.00</i>	\$56,250.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$4,000.00	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		\$203,720.00	

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.	\$5,760.00	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	\$203,720.00	N/A

Total for all systems	\$3,131,371.34	\$2,361,893.69	N/A	\$1,860,583.74	N/A
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Components

Actual Information	
Description	File Name
UHF - High Power, Side Mount, basic slot antenna, 16 bay,, 250 kW input, directional,, horizontally polarized	Information not provided.
Sweep test of existing antenna	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:	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		\$199,552.16	
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.	\$199,552.16	N/A
Sub-total	\$298,960.00	\$203,010.10	N/A	\$199,552.16	N/A
Total for all systems	\$3,131,371.34	\$2,361,893.69	N/A	\$1,860,583.74	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:	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:	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 Cost Justification
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	<i>\$6,050.00</i>	\$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	\$210,500.00	\$125,000.00		\$20,000.00	
Tall Tower (greater than 500')	\$210,500.00	\$125,000.00	See AT Exhibit for more information.	\$20,000.00	N/A
Sub-total	\$663,850.00	\$579,376.25	N/A	\$474,376.25	N/A
Total for all systems	\$3,131,371.34	\$2,361,893.69	N/A	\$1,860,583.74	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	<div data-bbox="708 174 1353 488"> <p>Component Description: Cost of rigorous analysis. Supporting documentation is attached. This invoice has been paid.</p> <p>Amount: \$1,403.75</p> </div> <div data-bbox="708 595 1353 949"> <p>Component Description: Cost of structural re-analysis to change legs for side mounted antenna. Supporting documentation is attached.</p> <p>Amount: \$1,300.00</p> </div> <div data-bbox="708 1055 1353 1368"> <p>Component Description: Cost for rigorous analysis. Supporting documentation is attached. This invoice has been paid.</p> <p>Amount: \$3,346.25</p> </div>
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	<div data-bbox="708 1503 1353 1816"> <p>Component Description: Cost of structural observation. Supporting documentation is attached. This invoice has been paid.</p> <p>Amount: \$8,470.00</p> </div>

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 Justification
Outside Professional Services	\$166,164.00	\$155,485.00		\$6,367.99	
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
Project management of the transition	\$9,164.00	\$8,735.00	See AT Exhibits for more information.	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$0.00	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
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
Sub-total	\$166,164.00	\$155,485.00	N/A	\$6,367.99	N/A
Total for all systems	\$3,131,371.34	\$2,361,893.69	N/A	\$1,860,583.74	N/A

Components

Actual Information	
Description	File Name
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	<p>Component Description: Invoice for WPXK's portion of general repack legal expenses incurred for 42 of the ION repack stations for period 2/1/2017 - 12/15/2017. Payee has corresponded with FCC staff. Hourly supporting documentation and invoice attached.</p> <p>Amount: \$4,742.99</p> <p>Component Description: Invoice for station's portion of general repack legal expenses incurred for 42 of the ION repack stations for period 2/1/2017 - 12/15/2017. Payee has corresponded with FCC staff and has provided corrected supporting documentation.</p> <p>Amount: \$4,837.97</p>
Prepare request for Special Temporary Authorization	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	<p>Component Description:</p> <p>Cost of RF consultant preparation of engineering part of FCC Form 2100. Hourly supporting documentation attached. This invoice has been paid.</p> <p>Amount:</p> <p>\$1,500.00</p>
Project management of the transition	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.

Perform engineering study
for new channel
assignment and antenna
development

Component Description:

Cost of RF
consultant work for
new channel
assignment and
antenna
development.
Hourly supporting
documentation
attached. This
invoice has been
paid.

Amount:

\$62.50

Component Description:

Cost of RF
consultant work for
new channel
assignment and
antenna
development.
Hourly supporting
documentation
attached. This
invoice has been
paid.

Amount:

\$62.50

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	\$125,975.34	\$116,910.34		\$30,630.34	
Civil Engineering Services	<i>\$6,500.00</i>	\$6,500.00	Cost for civil engineering services. Please see attached C&ME Proposal for Civil Design Services.	\$6,500.00	N/A
Obtain building permits from local zoning authorities	<i>\$750.00</i>	\$750.00	See AT Exhibits for more information.	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$0.00</i>	\$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	<i>\$10,000.00</i>	\$10,000.00	N/A	\$7,485.00	N/A
Equipment Delivery and Handling Charges	<i>\$15,845.34</i>	\$15,845.34	This is what ION has been billed by vendors to deliver equipment needed to meet repack deadline.	\$15,845.34	Estimated Cost and sub-total are both \$13,845.34

Disposal Costs (for equipment and other waste, net of any salvage value)	\$15,000.00	\$15,000.00	N/A	N/A	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
DTV Medical Facility Notification	\$11,550.00	\$2,500.00	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
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
Local Zoning	\$25,000.00	\$25,000.00	N/A	N/A	N/A
MVPD Notification of Channel Change	\$800.00	\$800.00	N/A	\$800.00	N/A
Sub-total	\$125,975.34	\$116,910.34	N/A	\$30,630.34	N/A
Total for all systems	\$3,131,371.34	\$2,361,893.69	N/A	\$1,860,583.74	N/A

Components

Actual Information	
Description	File Name

Civil Engineering Services	<p>Component Description: Cost for civil engineering services. Supporting documentation is attached.</p> <p>Amount: \$6,500.00</p>
Obtain building permits from local zoning authorities	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	<p>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.</p> <p>Amount: \$4,390.00</p> <p>Component Description: Cost to store main antenna until installation. Supporting documentation is attached.</p> <p>Amount: \$3,095.00</p>
Equipment Delivery and Handling Charges	

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:

\$2,285.44

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 freight for antenna mounting brackets. Supporting documentation and cover letter for expedited freight is attached. This invoice has been paid.
	Amount:	\$71.39
	Component Description:	Cost of freight for main antenna. Supporting documentation is attached.
	Amount:	\$10,243.77
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
BLM or NFS Coordination	Information not provided.	
Non-zoning permits	Information not provided.	
DTV Medical Facility Notification	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
FCC Filing Fees - Special Temporary Authorization request	Information not provided.	
Local Zoning	Information not provided.	

MVPD Notification of
Channel Change

Component Description:

Cost of MVPD
notifications of
channel change
through Widelity
Inc. Supporting
documentation
attached.

Amount:

\$800.00

Cost Information	Grand Total		
		Predetermined Cost Estimate	Estimated Cost
			Actual Cost
	Total for all systems	\$3,131,371.34	\$2,361,893.69
			\$1,860,583.74

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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> 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>Mario Vasquez <i>Vice President - Finance, Operations</i></p> <p>11/06/2019</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>Mario Vasquez <i>Vice President - Finance, Operations</i></p> <p>11/06/2019</p>

Attachments