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: **51980** | Service: **DTV** | Call Sign: **WHPX-TV** | Channel: **28 (UHF)**

File Number: **0000028444**

FRN: **0030297451** | Date Submitted: **06/26/2019**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
ION MEDIA HARTFORD LICENSE, INC. Doing Business As: ION MEDIA HARTFORD 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 #1237074 to ASR #1041624. Replace non-retunable transmitter, install top mounted antenna and transmission line to operate on post-repack channel. Helicopter will be required. No interim facilities needed.

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	DCX
	Year	2003
	Type	Inductive Output Tube
	IOT Power Type	Single
	Power Capacity	20 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?	Yes
	Manufacturer	
	Model	HPTV-PRLX-U8
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	13 kW
	Justification for New Transmitter	See attached Transmitter Exhibits. See attached Transmitter Upgrade Disclaimer.

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	Yes
	Description	Installation of auxiliary transmitter
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 leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Auxiliary Transmitter

Other Transmitter Cost Not Listed

Name	Description
RF Interconnect	Interconnect between RF system and transmission line
Removal of Existing Equipment	Removal of existing transmitters and equipment / Site Prep

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	7k Series
	Year	2010
	Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power Capacity	10 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-U16
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	27.5 kW
	Justification for New Transmitter	See attached document "Nx7000 Series in Repack".

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	Yes

	Description	Electrical Installation for replacement transmitter
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 leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter

Other Transmitter Cost Not Listed

Name	Description
RF Interconnect	Interconnect between RF system and transmission line
Removal of Existing Equipment	Removal of existing transmitters and equipment / Site Prep

Antennas

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

Primary Antenna

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	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	Top
	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)	475.0 kW

Manufacturer	
Model	TFU-31JTT-T 3BP250
Year	2002

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	Top 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)	500.0 kW
	Manufacturer	

	Model	TFU-21ETT /VP-R C170
	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?	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

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?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
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	1
	Number of Panels/Bays	8
	Lower Limit	470.00 MHz
	Upper Limit	698.00 MHz
	Design power capacity in use	25.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	55.0 kW
	Manufacturer	
	Model	TFU-WB-8
	Year	2017

	Justification for New Antenna	Interim antenna needed to complete move to new channel

Interim Antenna

Other Antenna Costs

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	S
	Feed Line Size	4 1/16 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	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	1367 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	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1400 feet per run
	Justification for New Transmission Line	See attached Transmission Line Exhibit

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Sweep existing transmission line	Sweep existing transmission line

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

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?	Candelabra
	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?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1041624
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	41° 42' 13.0" N-
	Longitude (NAD83)	072° 49' 55.0" W-
	Overall Structure Height	1338.89 feet
	Support Structure Height	1291.98 feet
	Ground Elevation Above Mean Sea Level (AMSL)	709.97 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Communications Site Management, LLC
Date Constructed	09/01/1984

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
1910	WRCH	FM
62175	WJMJ	FM
66465	WTIC-FM	FM
147	WTIC-TV	DTV
14050	WCCT-TV	DTV
1900	WZMX	FM
13602	WEDH	DTV
13595	WEDY	DTV

Primary Tower

Tower Modification Costs

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

Primary Tower

Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	Candelabra
Helicopter Services Required	Are helicopter services required?	Yes

Primary Tower

Other Tower Expenses Not Listed

Information not provided.

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?	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?	Unknown
	Is tower compliant with Rev G?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1237074
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	41° 25' 03.7" N-
	Longitude (NAD83)	072° 11' 53.2" W-
	Overall Structure Height	1205.04 feet
	Support Structure Height	1088.90 feet
	Ground Elevation Above Mean Sea Level (AMSL)	304.79 feet
	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	SpectraSite Communications, LLC. through American Towers, LLC.
	Date Constructed	11/07/2002

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.

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	180
	Explanation	Required by tower landlord.
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	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	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	No
	FCC Construction Permit Minor Change	Yes
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	Yes
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

Other Expenses

Other Expenses Not Listed

Information not provided.

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-U16	**$1,022,000.00**	**$571,213.00**		**$396,970.40**	
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	$947,000.00	$496,213.00	399 approved amount for primary transmitter. 399 approved model (U12) was subsequently changed by ION to order a U14 model and then changed again to order a U16 model. Please see attached Hitachi Comark Primary Transmitter Quotes.	$396,970.40	N/A
Other Electrical Service: Electrical Installation for replacement transmitter	***$25,000.00***	$25,000.00	N/A	N/A	N/A
Removal of Existing Equipment	***$25,000.00***	$25,000.00	N/A	N/A	N/A
RF Interconnect	***$25,000.00***	$25,000.00	N/A	N/A	N/A

Auxiliary Transmitter HPTV-PRLX-U8	**$1,581,754.00**	**$571,443.00**		**$213,770.40**	
Removal of Existing Equipment	***$25,000.00***	$25,000.00	N/A	N/A	N/A
RF Interconnect	***$25,000.00***	$25,000.00	N/A	N/A	N/A
Other Electrical Service: Installation of auxiliary transmitter	***$90,254.00***	$90,254.00	Cost of electrical installation on transmitter by Eastside Electric, Inc. Please see attached Eastside Electric Quote #118093.	$54,152.40	N/A
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	$494,500.00	$271,571.00	See attached ION - WHPX Transmitter Purchase Exhibit (Pages 1, 5-7).	$0.00	N/A
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	$947,000.00	$159,618.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***See attached Hitachi Comark Quote #P3463PRLXU14-011818-R1.	$159,618.00	N/A
Sub-total	$2,603,754.00	$1,142,656.00	N/A	$610,740.80	N/A
Total for all systems	$4,658,924.00	$2,464,395.00	N/A	$1,519,242.16	N/A

Components

Actual Information Description	File Name
UHF - Liquid Cooled Solid	

State Transmitter 21 - 31 kW

Component Description:	50% "progress" payment for Comark Transmitter. Explanation of variance and supporting documentation attached. This invoice has been paid.
Amount:	$248,106.50
Component Description:	30% "deposit" payment for Comark Transmitter. Explanation of variance and supporting documentation attached. This invoice has been paid.
Amount:	$148,863.90
Component Description:	Downward adjustment for previous reimbursement request.
Amount:	($266,030.00)
Component Description:	Downward adjustment for previous reimbursement request.
Amount:	($159,618.00)

	Component Description: **Amount:**	50% "progress" payment on Comark transmitter. Supporting documentation attached. $266,030.00
	Component Description: **Amount:**	30% "deposit" payment for Comark Transmitter. Supporting documentation attached. This invoice has been paid. $159,618.00
Other Electrical Service: Electrical Installation for replacement transmitter	Information not provided.	
Removal of Existing Equipment	Information not provided.	
RF Interconnect	Information not provided.	
Removal of Existing Equipment	Information not provided.	
RF Interconnect	Information not provided.	
Other Electrical Service: Installation of auxiliary transmitter	**Component Description:** **Amount:**	60% payment for electrical installation for transmitter. Supporting documentation is attached. This invoice has been paid. $54,152.40

UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	**Component Description:** **Amount:** **Component Description:** **Amount:**	30% "deposit" payment for Comark Transmitter. Supporting documentation attached. This invoice has been paid. $159,618.00 50% "progress" payment on Comark transmitter. Supporting documentation attached. This invoice has been paid. $266,030.00

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-8	**$105,700.00**	**$83,593.00**		**$52,726.50**	
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	$89,400.00	$70,000.00	The estimated cost has been re-entered due to a technical error with the LMS form. Per FCC procedure, we have re-entered the original cost estimate that ties to our original submission while the technical issue is resolved.	$44,925.00	Per reviewer's request, we are re-submitting the following invoices due to technical error within LMS.
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	N/A	N/A
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	$9,570.00	$7,193.00	N/A	$7,801.50	Actual Cost of interim elbow complex and interim antenna transformer greater than estimated cost.

Primary Antenna TFU-21ETT /VP-R C170	**$308,530.00**	**$262,368.00**		**$186,579.90**	
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	$289,500.00	$244,268.00	V-Pol cost not included in reimbursement request	$171,551.70	N/A
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	$5,760.00	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	$12,300.00	$11,700.00	N/A	$9,268.20	N/A
Sub-total	$414,230.00	$345,961.00	N/A	$239,306.40	N/A
Total for all systems	$4,658,924.00	$2,464,395.00	N/A	$1,519,242.16	N/A

Components

Actual Information Description	File Name

UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	**Component Description:**	Per reviewer's request, we are re-submitting the following invoice due to technical error: 45% "down payment" for interim antenna. Supporting documentation attached. This invoice has been paid.
	Amount:	$20,216.25
	Component Description:	Per reviewer's request, we are re-submitting the following invoice due to technical error: 10% "remaining balance" payment for interim antenna. Supporting documentation attached. This invoice has been paid.
	Amount:	$4,492.50
	Component Description:	Per reviewer's request, we are re-submitting the following invoice due to technical error: 45% "prior to ship" payment for interim antenna. Supporting documentation attached. This invoice has been paid.
	Amount:	$20,216.25

Sweep test of existing antenna	Information not provided.	
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	**Component Description:** **Amount:**	Per reviewer's request, we are re-submitting the following invoice due to technical error: 45% "down payment" for interim elbow complex. Supporting documentation attached. This invoice has been paid. $1,852.20
	Component Description: **Amount:**	Per reviewer's request, we are re-submitting the following invoice due to technical error: 10% "after install" payment for interim elbow complex. Supporting documentation attached. This invoice has been paid. $411.60

Component Description:	Per reviewer's request, we are re-submitting the following invoice due to technical error: 45% "prior to ship" payment for interim elbow complex. Supporting documentation attached. This invoice has been paid.
Amount:	$1,852.20
Component Description:	Per reviewer's request, we are re-submitting the following invoice due to technical error: 10% "after install" payment for interim antenna transformer. Supporting documentation attached. This invoice has been paid.
Amount:	$368.55

Component Description:	Per reviewer's request, we are re-submitting the following invoice due to technical error: 45% "prior to ship" payment for interim antenna transformer. Supporting documentation attached. This invoice has been paid.
Amount:	$1,658.47
Component Description:	Per reviewer's request, we are re-submitting the following invoice due to technical error: 45% "down payment" for interim antenna transformer. Supporting documentation attached. This invoice has been paid.
Amount:	$1,658.48

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	**Component Description:**	65% "prior to ship" payment for primary antenna. Explanation of variance form and supporting documentation attached. This invoice has been paid.
	Amount:	$123,898.45
	Component Description:	25% deposit payment for primary antenna. Explanation of variance form and supporting documentation attached. This invoice has been paid.
	Amount:	$47,653.25

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

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

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	**$289,200.00**	**$218,763.00**		**$168,912.46**	
Sweep existing transmission line	***$6,400.00***	$6,400.00	N/A	N/A	N/A
Rigid Transmission Line - copper, 6 1/8"	$282,800.00	$212,363.00	N/A	$168,912.46	N/A
Sub-total	$289,200.00	$218,763.00	N/A	$168,912.46	N/A
Total for all systems	$4,658,924.00	$2,464,395.00	N/A	$1,519,242.16	N/A

Components

Actual Information Description	File Name
Sweep existing transmission line	Information not provided.

Rigid Transmission Line - copper, 6 1/8"	**Component Description:**	65% "prior to ship" payment for primary transmission line. Supporting documentation attached. This invoice has been paid.
	Amount:	$115,221.93
	Component Description:	65% "prior to ship" payment for transmission line cut pieces. Supporting documentation attached. This invoice has been paid.
	Amount:	$6,770.40
	Component Description:	25% deposit payment for primary transmission line. Supporting documentation attached. This invoice has been paid.
	Amount:	$44,316.13
	Component Description:	25% deposit payment for transmission line cut pieces. Supporting documentation attached. This invoice has been paid.
	Amount:	$2,604.00

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	**$210,500.00**	**$50,000.00**		**$50,000.00**	
Tall Tower (greater than 500')	$210,500.00	$50,000.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***See AT Exhibit for more information.	$50,000.00	N/A
Primary Tower TOWER	**$862,000.00**	**$454,250.00**		**$448,720.00**	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	$421,000.00	$441,450.00	Cost for Tower Rigging services from Turris Engineering Inc. Please see attached quote #18-0780.	$435,920.00	N/A

Tower Helicopter Lift	***$0.00***	$0.00	A helicopter was used to install antenna, but was not itemized in the quote from Turris Engineering.	N/A	N/A
Major tower reinforcement /modifications	$421,000.00	$0.00	N/A	N/A	N/A
Structural engineering tower load study for a documented tower with candelabra	$20,000.00	$12,800.00	Cost for structural analysis work from Turris Engineering Inc. Please see attached quote #18-0443.	$12,800.00	N/A
Sub-total	$1,072,500.00	$504,250.00	N/A	$498,720.00	N/A
Total for all systems	$4,658,924.00	$2,464,395.00	N/A	$1,519,242.16	N/A

Components

Actual Information Description	File Name

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.
	Amount:	$50,000.00
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	**Component Description:**	10% "upon mobilization" plus 15% "when materials are ready to be shipped" (25% total) payment for tower service. Supporting documentation is attached. This invoice has been paid.
	Amount:	$105,825.00
	Component Description:	25% "down payment" for tower service. Supporting documentation attached. This invoice has been paid.
	Amount:	$105,825.00

Component Description:	Cost for downtime for tower crew due to 7 days bad weather days during the month of February, 2019. Supporting documentation is attached. This invoice has been paid.
Amount:	$21,850.00
Component Description:	10% "upon mobilization of tower field crew" plus 20% "in progress payments during field installation" (30% total) payment for tower service. Supporting documentation is attached. This invoice has been paid.
Amount:	$126,990.00
Component Description:	Cost for project insurance for tower service. Supporting documentation is attached. This invoice has been paid.
Amount:	$18,150.00

	Component Description: **Amount:** **Component Description:** **Amount:**	10% "Antenna is installed" payment for tower service. Supporting documentation is attached. This invoice has been paid. $42,330.00 Cost for downtime for tower crew due to 5 days bad weather days during the month of March, 2019. Supporting documentation is attached. This invoice has been paid. $14,950.00
Tower Helicopter Lift	Information not provided.	
Major tower reinforcement /modifications	Information not provided.	

Structural engineering tower load study for a documented tower with candelabra	**Component Description:**	50% remaining balance payment for tower structural study. Supporting documentation is attached. This invoice has been paid.
	Amount:	$6,400.00
	Component Description:	50% deposit payment for tower structural study. Supporting documentation attached. This invoice has been paid.
	Amount:	$6,400.00

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	**$189,650.00**	**$171,280.00**		**$1,562.50**	
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
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	$2,105.00	$2,000.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	$2,105.00	$2,000.00	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	$0.00	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	$7,000.00	N/A	$62.50	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	N/A	N/A
Project management of the transition	$28,440.00	$18,530.00	See AT Exhibit for more information.	N/A	N/A
Sub-total	$189,650.00	$171,280.00	N/A	$1,562.50	N/A
Total for all systems	$4,658,924.00	$2,464,395.00	N/A	$1,519,242.16	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.
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.
ASR modification (prepare FCC Form 854)	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:** **Amount:**	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. $4,837.97
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	**Component Description:** **Amount:**	Cost of engineering consultant preparation of engineering section 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:**	Cost of engineering study 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	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 Cos Justificati
Other Expenses	**$89,590.00**	**$81,485.00**		**$0.00**	
MVPD Notification of Channel Change	***$1,400.00***	$1,400.00	N/A	N/A	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
DTV Medical Facility Notification	$11,550.00	$3,500.00	N/A	N/A	N/A
Local Zoning	***$25,000.00***	$25,000.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 minor change CP application	$1,110.00	$1,070.00	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

Non-zoning permits	***$15,000.00***	$15,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	***$15,000.00***	$15,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	***$10,000.00***	$10,000.00	N/A	N/A	N/A
Equipment Storage	***$10,000.00***	$10,000.00	N/A	N/A	N/A
Sub-total	$89,590.00	$81,485.00	N/A	$0.00	N/A
Total for all systems	$4,658,924.00	$2,464,395.00	N/A	$1,519,242.16	N/A

Components

Information not provided.

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$4,658,924.00	$2,464,395.00	$1,519,242.16

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	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* 06/26/2019

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* 06/26/2019

Attachments