



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **51984** | Service: **DTV** | Call **WPPX-TV** | Channel: **34 (UHF)** |  
ID: | Sign:  
File **0000028672**  
Number:  
FRN: **0001808468** | Date **04/20**  
Submitted: **/2018**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
ION MEDIA PHILADELPHIA LICENSE, INC. Doing Business As: ION MEDIA PHILADELPHIA LICENSE, INC.	Michael Hubner 810 Seventh Avenue 31st Floor New York, NY 10019 United States	+1 (212) 603- 8407	MichaelHubner@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 operations from ASR# 1231524 to ASR# 1023152. Install and operate from shared-interim antenna utilizing new transmitter. Build Post-Repack facilities utilizing new side-mount antenna, transmission line, and transmitter.

**Transmitters**

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

**Primary  
Transmitter**

**Existing Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	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
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	Ultimate
	Year	2003
	Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power Capacity	10 kW

**Primary  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
<b>New Transmitter</b>	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	THU9-10 EVO
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	15.5 kW
	Justification for New Transmitter	See attached Ultimate and Optimum Transmitter Exhibit.

**Primary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
<b>Electrical Service</b>	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
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	5 tons
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	Yes
	Size	144.0 square feet
<b>Channel 14 Costs</b>	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
<b>RF Interconnect</b>	Interconnect between RF System and transmission line
<b>Removal of Existing Equipment</b>	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	Bottom
	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) .....	200.0 kW

Manufacturer	
Model	TFU- 20DSC-R P230
Year	2004



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?	Yes
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) .....	213.0 kW
	Manufacturer	

Model	TFU-20DSC /VP-R P230
Year	2018
Justification for New Antenna	Current slot antenna cannot be re-channelled

## Primary Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	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
<b>Elbow Complex</b>	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
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

Primary Antenna	Other Antenna Cost Not Listed Information not provided.
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**Interim  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	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
<b>New Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Broadband Slot
	Number of Stations Supported	2
	Number of Panels/Bays	24
	Lower Limit	470.00 MHz
	Upper Limit	698.00 MHz
	Design power capacity in use	95.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	210.0 kW
	Manufacturer	
	Model	TFU-WB-24
	Year	2018

	Justification for New Antenna	Shared-interim antenna needed to complete move to new channel.
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## Interim Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	2
	Frequencies of channels supported	RF channel
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	No
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	B
	Feed Line Size	6 1/8 inches
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for an antenna?	No
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

Enter a list of RF channel numbers.

RF Channel Number

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34

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31

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32

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33

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**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
<b>Existing Transmission Line Description</b>	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
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	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	1261 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	1250 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

**Interim** **New Transmission Line**  
**Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Rigid
	Diameter	6 1/8 inches
	Segment Length	Broadband
	Other Segment Length	
	Number of parallel runs	1
	Length	1225 feet per run
	Justification for New Transmission Line	Broadband Interim Transmission Line needed to combine channels into Shared-Interim Broadband Antenna.

**Interim** **Other Transmission Line Expenses Not Listed**  
**Transmission Line**

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**

**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?	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?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1023152
Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	40° 02' 39.0" N-
	Longitude (NAD83)	075° 14' 25.0" W-
	Overall Structure Height	1116.13 feet
	Support Structure Height	1112.85 feet
	Ground Elevation Above Mean Sea Level (AMSL)	252.29 feet

	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	ABC INC DBA = WPVI-TV
	Date Constructed	01/01/1957

**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
25453	KYW-TV	DTV
8616	WPVI-TV	DTV
12499	WPSG	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:	Major Reinforcements needed

## Primary Tower

### Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A

<b>Helicopter Services Required</b>	Are helicopter services required?	No
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**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?	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?	Unknown
	Is tower compliant with Rev G?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1231524
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	40° 02' 30.1" N-
	Longitude (NAD83)	075° 14' 10.1" W-
	Overall Structure Height	1254.91 feet
	Support Structure Height	1124.00 feet
	Ground Elevation Above Mean Sea Level (AMSL)	292.98 feet
	Structure Type	GTOWER - Guyed Structure Used for Communication Purposes

	Tower Owner	Global Tower, LLC. through American Towers, LLC
	Date Constructed	11/02/2011

**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
74213	WXTU	FM
65190	WRTI	FM
12499	WPSG	DTV
1283	KJWP	DTV
28480	WYBE	DTV
28628	WIP-FM	FM
30572	WPHI-FM	FM
74216	WFPA-CD	DTV
72278	WPHA-CD	DTV
7623	WGTW-TV	DTV
63153	WCAU	DTV
12211	WPPZ-FM	FM
9622	WOGL	FM
60560	WUVP-DT	DTV
55305	WTVE	DTV

**Primary  
Tower**

**Tower Rigging Costs**

Section	Question	Response
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<b>Tower Rigging Costs</b>	Complex Tower	Candelabra
<b>Helicopter Services Required</b>	Are helicopter services required?	No

**Primary  
Tower**

**Other Tower Expenses Not Listed**

Information not provided.



**Outside  
Professional Services Costs**

Section	Question	Response
<b>Outside Project Management Services</b>	Do you require outside project management services?	No
	Number of Hours	N/A
	Explanation	N/A
<b>Outside RF consulting Engineering Services</b>	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
<b>Attorney and Other Outside Consulting Services</b>	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	No
	Environmental Assessment	No
	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
<b>RF Field Engineering Services</b>	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**

If wireless is not provided.

## Other Expenses

Section	Question	Response
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	Yes
	Is Remediation needed?	No
<b>Facility Expenses</b>	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
<b>Permit and Filing Costs</b>	Local Zoning	Yes
	Non-zoning permits	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	Yes
<b>Other Miscellaneous Expenses</b>	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
<b>Obtain building permits from local zoning authorities</b>	The cost of preparation and submission of the needed forms for permits, on behalf of the three broadcasters for jurisdictional permits, required for electrical, building and required tasks assoc with the install of the the equip in the transmitter spaces

## Cost Information

### Transmitters

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Primary Transmitter THU9-10 EVO</b>	<b>\$788,525.00</b>	<b>\$489,759.54</b>		<b>\$385,179.54</b>	
Removal of Existing Equipment	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Other Electrical Service: Electrical Installation for replacement transmitter	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
5 Ton system	\$20,250.00	\$19,250.00	N/A	N/A	N/A
RF Interconnect	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Other -- Building Addition Size: 144.0	<i>\$9,275.00</i>	\$9,275.00	See attached APCON Quote #01 for 12' x 12' (144 sq ft) building addition.	\$9,275.00	N/A
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	\$684,000.00	\$386,234.54	See attached Rohde & Schwarz Transmitter Quotes & Breakdown #01	\$375,904.54	N/A

<b>Sub-total</b>	\$788,525.00	\$489,759.54	N/A	\$385,179.54	N/A
<b>Total for all systems</b>	\$3,205,113.00	\$2,174,359.64	N/A	\$674,157.74	N/A

## Components

<b>Actual Information Description</b>	<b>File Name</b>
Removal of Existing Equipment	Information not provided.
Other Electrical Service: Electrical Installation for replacement transmitter	Information not provided.
5 Ton system	Information not provided.
RF Interconnect	Information not provided.
Other -- Building Addition Size: 144.0	<p><b>Component Description:</b> Cost of concrete pads for placement of heat exchangers next to transmitter building. Supporting documentation attached. This invoice has been paid.</p> <p><b>Amount:</b> \$9,275.00</p>

UHF - Liquid Cooled Solid  
State Transmitter 14.2 - 20  
kW

**Component Description:**

Cots of additional  
requested  
installation material  
or services and  
Dielectric parts for  
the antenna line  
after switch.  
Supporting  
documentation  
attached. This  
invoice has been  
paid.

**Amount:**

\$17,804.04

**Component Description:**

75% "remaining  
balance" payment  
on Rohde &  
Schwarz  
transmitter.  
Supporting  
documentation  
attached.

**Amount:**

\$268,575.38

**Component Description:**

25% "down  
payment" for  
Rohde & Schwarz  
transmitter.  
Supporting  
documentation  
attached. This  
invoice has been  
paid.

**Amount:**

\$89,525.12

## 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
<b>Interim Antenna TFU-WB-24</b>	<b>\$277,648.00</b>	<b>\$253,858.00</b>		<b>\$171,178.20</b>	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	See attached Dielectric Quote #700481CMZ.	\$5,760.00	N/A
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	\$13,700.00	\$10,780.00	See attached Dielectric Quote #700481CMZ.	\$9,702.00	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$63,660.00	See attached Dielectric Quote #800055CMZ.	N/A	N/A
UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 210 kW input, directional,, elliptically or circularly polarized	<b><i>\$173,018.00</i></b>	\$173,018.00	See attached Dielectric Quote #700481CMZ.	\$155,716.20	N/A



<b>Primary Antenna TFU-20DSC /VP-R P230</b>	<b>\$274,440.00</b>	<b>\$186,622.50</b>		<b>\$0.00</b>	
UHF - Lower Power Side Mount, One station antenna -- 200-500 kW, elliptically or circularly polarized	\$227,000.00	\$148,500.00	The estimated cost has been re- entered due to a technical error with the LMS form. Per FCC procedure, we have re- entered the cost estimate that ties to our last submission while the technical issue is resolved.	N/A	N/A
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$16,425.00	See attached Dielectric Quote #45098.	N/A	N/A

Sweep test of existing antenna	\$6,730.00	\$6,400.00	See attached Dielectric Quote #45098.	N/A	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$10,297.50	See attached Dielectric Quote #45098.	N/A	N/A
<b>Sub-total</b>	\$552,088.00	\$440,480.50	N/A	\$171,178.20	N/A
<b>Total for all systems</b>	\$3,205,113.00	\$2,174,359.64	N/A	\$674,157.74	N/A

## Components

**Actual Information**  
**Description**

**File Name**

<p>Sweep test of existing antenna</p>	<table> <tr> <td data-bbox="708 174 1018 208"><b>Component Description:</b></td><td data-bbox="1150 174 1369 521">45% "down payment" for repack sweep of interim operations. Supporting documentation attached. This invoice has been paid.</td></tr> <tr> <td data-bbox="708 533 818 566"><b>Amount:</b></td><td data-bbox="1150 533 1268 566">\$2,880.00</td></tr> <tr> <td data-bbox="708 674 1018 707"><b>Component Description:</b></td><td data-bbox="1150 674 1377 1021">45% "prior to ship" payment for repack sweep of interim operations. Supporting documentation attached. This invoice has been paid.</td></tr> <tr> <td data-bbox="708 1032 818 1066"><b>Amount:</b></td><td data-bbox="1150 1032 1268 1066">\$2,880.00</td></tr> </table>	<b>Component Description:</b>	45% "down payment" for repack sweep of interim operations. Supporting documentation attached. This invoice has been paid.	<b>Amount:</b>	\$2,880.00	<b>Component Description:</b>	45% "prior to ship" payment for repack sweep of interim operations. Supporting documentation attached. This invoice has been paid.	<b>Amount:</b>	\$2,880.00
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<b>Amount:</b>	\$2,880.00								
<b>Component Description:</b>	45% "prior to ship" payment for repack sweep of interim operations. Supporting documentation attached. This invoice has been paid.								
<b>Amount:</b>	\$2,880.00								
<p>Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)</p>	<table> <tr> <td data-bbox="708 1205 1018 1238"><b>Component Description:</b></td><td data-bbox="1150 1205 1350 1552">45% "down payment" for interim elbow complex. Supporting documentation attached. This invoice has been paid.</td></tr> <tr> <td data-bbox="708 1563 818 1597"><b>Amount:</b></td><td data-bbox="1150 1563 1268 1597">\$4,851.00</td></tr> <tr> <td data-bbox="708 1704 1018 1738"><b>Component Description:</b></td><td data-bbox="1150 1704 1377 2051">45% "prior to ship" payment for interim elbow complex. Supporting documentation attached. This invoice has been paid.</td></tr> <tr> <td data-bbox="708 2018 818 2051"><b>Amount:</b></td><td data-bbox="1150 2018 1268 2051">\$4,851.00</td></tr> </table>	<b>Component Description:</b>	45% "down payment" for interim elbow complex. Supporting documentation attached. This invoice has been paid.	<b>Amount:</b>	\$4,851.00	<b>Component Description:</b>	45% "prior to ship" payment for interim elbow complex. Supporting documentation attached. This invoice has been paid.	<b>Amount:</b>	\$4,851.00
<b>Component Description:</b>	45% "down payment" for interim elbow complex. Supporting documentation attached. This invoice has been paid.								
<b>Amount:</b>	\$4,851.00								
<b>Component Description:</b>	45% "prior to ship" payment for interim elbow complex. Supporting documentation attached. This invoice has been paid.								
<b>Amount:</b>	\$4,851.00								

New combiner, cost per channel (without antenna)	Information not provided.
UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 210 kW input, directional,, elliptically or circularly polarized	<div> <div> <b>Component Description:</b> </div> <div> 45% "prior to ship" payment for interim antenna. Supporting documentation attached. This invoice has been paid. </div> </div> <div> <div> <b>Amount:</b> </div> <div> \$77,858.10 </div> </div> <div> <div> <b>Component Description:</b> </div> <div> 45% "down payment" for interim antenna. Supporting documentation attached. This invoice has been paid. </div> </div> <div> <div> <b>Amount:</b> </div> <div> \$77,858.10 </div> </div>
UHF - Lower Power Side Mount, One station antenna -- 200-500 kW, elliptically or circularly polarized	Information not provided.
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
Sweep test of existing antenna	Information not provided.
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.

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
Interim Transmission Line	\$284,200.00	\$195,428.80		\$0.00	
Rigid Transmission Line - copper, 6 1/8" broadband	\$284,200.00	\$195,428.80	See attached Dielectric Quote #700467CMZ.	\$0.00	N/A
Primary Transmission Line	\$258,900.00	\$183,975.80		\$0.00	
Rigid Transmission Line - copper, 6 1/8"	\$252,500.00	\$177,575.80	See attached Dielectric Quote #45098 (Line Items 4 and 5).	N/A	N/A
Sweep existing transmission line	\$6,400.00	\$6,400.00	N/A	N/A	N/A
Sub-total	\$543,100.00	\$379,404.60	N/A	\$0.00	N/A
Total for all systems	\$3,205,113.00	\$2,174,359.64	N/A	\$674,157.74	N/A

Components

Information not provided.

## Cost Information

### Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Primary Tower</b>	<b>\$421,000.00</b>	<b>\$92,400.00</b>		<b>\$0.00</b>	
<b>GTOWER</b>					
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$92,400.00	See attached Vertical Technology Services Quote #17455-PA-REV-1 (Line Item C)	\$0.00	N/A
<b>Primary Tower</b>	<b>\$657,800.00</b>	<b>\$542,800.00</b>		<b>\$117,800.00</b>	
<b>TOWER</b>					
Tall Tower (greater than 500')	\$210,500.00	\$117,800.00	See attached Vertical Technology Services Quote #17455-PA-REV-1 (Line Item B)	\$117,800.00	N/A
Major tower reinforcement /modifications	\$421,000.00	\$400,000.00	N/A	N/A	N/A

Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$25,000.00	N/A	N/A	N/A
<b>Sub-total</b>	\$1,078,800.00	\$635,200.00	N/A	\$117,800.00	N/A
<b>Total for all systems</b>	\$3,205,113.00	\$2,174,359.64	N/A	\$674,157.74	N/A

## Components

Actual Information	
Description	File Name
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Information not provided.

Tall Tower (greater than 500')	<div data-bbox="710 174 1377 526"> <p><b>Component Description:</b> Progress payment for tower service at ABC Joint Venture tower. Supporting documentation attached. This invoice has been paid.</p> <p><b>Amount:</b> \$50,000.00</p> </div> <div data-bbox="710 633 1364 947"> <p><b>Component Description:</b> Final progress payment for tower service at ABC Joint Venture tower. Supporting documentation attached.</p> <p><b>Amount:</b> \$62,800.00</p> </div> <div data-bbox="710 1055 1377 1406"> <p><b>Component Description:</b> Progress payment for tower service at ABC Joint Venture Tower. Supporting documentation attached. This invoice has been paid.</p> <p><b>Amount:</b> \$5,000.00</p> </div>
Major tower reinforcement /modifications	Information not provided.
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	Information not provided.



## 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
<b>Outside Professional Services</b>	<b>\$144,380.00</b>	<b>\$136,750.00</b>		<b>\$0.00</b>	
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 and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	See AT exhibit for more information.	N/A	N/A

Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	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
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 request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A

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
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	N/A	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	N/A	N/A
<b>Sub-total</b>	\$144,380.00	\$136,750.00	N/A	\$0.00	N/A
<b>Total for all systems</b>	\$3,205,113.00	\$2,174,359.64	N/A	\$674,157.74	N/A

## Components

Actual Information	
Description	File Name
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><b>Component Description:</b></p> <p>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><b>Amount:</b></p> <p>\$4,837.97</p>
Prepare request for Special Temporary Authorization	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	Information not provided.
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.
Attorney Fees - Negotiation of lease and other matters for shared locations	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.

ASR modification (prepare FCC Form 854)	Information not provided.
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.
Comprehensive coverage verification via field study, if needed	Information not provided.
RF Exposure Measurements	Information not provided.

## Cost Information

### Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Other Expenses</b>	<b>\$98,220.00</b>	<b>\$92,765.00</b>		<b>\$0.00</b>	
Obtain building permits from local zoning authorities	<i>\$750.00</i>	\$750.00	See AT exhibit for more information.	N/A	N/A
MVPD Notification of Channel Change	<i>\$2,500.00</i>	\$2,500.00	N/A	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	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$10,000.00</i>	\$10,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$15,000.00</i>	\$15,000.00	N/A	N/A	N/A
Non-zoning permits	<i>\$15,000.00</i>	\$15,000.00	N/A	N/A	N/A

Local Zoning	<b>\$25,000.00</b>	\$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
AM Pattern Disturbance -- Impact study	\$7,890.00	\$7,500.00	As required per the Construction Permit Authorization's Waivers /Special Conditions, a proof of performance study shall be conducted to establish that the AM array (WNWR) has not been adversely affected.	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$6,500.00	N/A	N/A	N/A
<b>Sub-total</b>	\$98,220.00	\$92,765.00	N/A	\$0.00	N/A
<b>Total for all systems</b>	\$3,205,113.00	\$2,174,359.64	N/A	\$674,157.74	N/A

## Components

Information not provided.

<b>Cost Information</b>	<b>Grand Total</b>		
		<b>Predetermined Cost Estimate</b>	<b>Estimated Cost</b>
			<b>Actual Cost</b>
	<b>Total for all systems</b>	\$3,205,113.00	\$2,174,359.64
			\$674,157.74

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



Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> <li>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.</li> <li>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>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.</li> </ol>	

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><b>Mario Vasquez</b>  <i>Vice President - Finance, Operations</i></p> <p>04/20/2018</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"> <li>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.</li> <li>2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.</li> <li>3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> </ol>	

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><b>Mario Vasquez</b>  <i>Vice President - Finance, Operations</i></p> <p>04/20/2018</p>

## Attachments