



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **53116** | Service: **DTV** | Call **WJXT** | Channel: **18 (UHF)**  
ID: | Sign:  
File **0000027951**  
Number:  
FRN: **0002161107** | Date **10/23**  
Submitted: **/2018**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>GRAHAM MEDIA GROUP, FLORIDA. INC.</b> Doing Business As: GRAHAM MEDIA GROUP, FLORIDA. INC.	James Lowery 4 BROADCAST PLACE JACKSONVILLE, FL 32207 United States	+1 (904) 393-9871	jlowery@wjxt.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
<b>William T Godfrey , Jr. .</b> <i>Consulting Engineers Kessler and Gehman Associates, Inc.</i>	William T. Godfrey, Jr. Kessler and Gehman Associates, Inc. 507-D NW 60th Street Gainesville, FL 32607 United States	+1 (352) 332-3157	jeff@kesslerandgehman.com

**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	Replace the transmitter, antenna and transmission line. Analyze and modify 222-F candelabra tower. WJXT tower at capacity. Operate interim facility at alternate-site. Share main antenna and transmission line with WCWJ.

**Transmitters**

Section	Question	Response
<b>Transmitter Related Expenses</b>	Do you have transmitter related expenses?	Yes

**Primary  
Transmitter**

**Existing Transmitter Information**

<b>Section</b>	<b>Question</b>	<b>Response</b>
<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	Sigma CD3200P2
	Year	2008
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	42 kW

**Primary  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
<p><b>New Transmitter</b></p>	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	THU9EVO-24
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	37.0 kW
	Justification for New Transmitter	<p>ERP: 550 kW RMS            Gain: 18.8            Azimuth            Gain: 1.38            TX Line            Loss: 0.814            Mask Filter            Loss: 0.931            Combiner            Loss: 0.933            H-pol Only            TPO: 30.0 kW            (THU9EVO-20) 1 Step            Up:            THU9EVO-24            Upgrade:            THU9EVO-36</p>

**Primary  
Transmitter**

**Other Transmitter Costs**

<b>Section</b>	<b>Question</b>	<b>Response</b>
<b>Electrical Service</b>	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	300 kVA
	Rigid Conduit and Wiring	Yes
	Size	3 inches
	Length	500.0 feet
	Other Electrical Service	Yes
	Description	Remove beam supplies and install new transformers.
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	10 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?	No
	Size	N/A
<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**

<b>Name</b>	<b>Description</b>
<b>50 kW Reject Load</b>	Outside heat exchanger kit: \$4,812.50. See Rohde & Schwarz quote.
<b>8-Pole Mask Filter</b>	WJXT-D18 is located less than 1 km from WJAX-D19 (1st adjacent stations).
<b>Standby Exciter and Switch</b>	Standby Exciter with Automatic Change Over Switch.
<b>Switch</b>	Switch to Combiner Interconnect 8-3/16" 75 ohm.

**Interim  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
<b>New Transmitter</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	THU9EVO-36
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	55.0 kW
	Justification for New Transmitter	No space on tower to support an interim antenna. ERP: 976 kW. RMS Gain: 20.0 Azimuth Gain: 1.66 TX Line loss: 0.777 Mask Filter Loss: 0.931 H-pol only TPO: 52.3 kW Required TX: THU9EVO-36

**Interim  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
<b>Electrical Service</b>	Service Entrance (3 phases 800A 208V)	Yes

	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	500 kVA
	Rigid Conduit and Wiring	Yes
	Size	3 inches
	Length	500.0 feet
	Other Electrical Service	Yes
	Description	Additional services required to install new transmitter at alternate site (see attached quotes for monthly lease expenses; transmitter building costs; and electrical services costs).
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	10 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	450.0 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
<b>Inside RF System</b>	Is an additional interior RF system required to support this interim transmitter?	Yes

**Interim  
Transmitter**

**Other Transmitter Cost Not Listed**

<b>Name</b>	<b>Description</b>
<b>Transmitter Interconnect</b>	TX output to container in antenna interconnect kit 6-50: \$9,600. See Rohde & Schwarz quote.
<b>Split Configuration</b>	Transmitter split configuration kit to provide required space in in interim container. Cost is \$3,950.00. See Rohde & Schwarz quote.
<b>Required Extra Glycose</b>	Extra glycose and hose accessories kit - 30 meters.
<b>50 kW Reject Load</b>	Outside heat exchanger kit: \$10,112.50. See Rohde & Schwarz quote.
<b>Additional RF Components</b>	Required to split cabinets in order to meet spacing requirements in transmitter building.
<b>Cooling Pumps Stacking Kit</b>	Required to meet spacing requirements in transmitter building.
<b>Back-up Generator</b>	A temporary generator is required at the interim site while the main site is built-out.

**Antennas**

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

**Primary  
Antenna**

**Existing Antenna Information**

Section	Question	Response
<b>Existing Antenna Description</b>	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?	Yes
<b>Existing Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	976.0 kW

Manufacturer	
Model	TFU-30GTH 06
Year	2008

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**Primary  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	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?	Yes
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
<b>New Antenna Manufacturer and Types</b>	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Top
	Polarization	Elliptical
	Type	Broadband Slot
	Number of Stations Supported	2
	Number of Panels/Bays	24
	Lower Limit	497.00 MHz
	Upper Limit	509.00 MHz
	Design power capacity in use	40.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	670.0 kW
	Manufacturer	
	Model	TFU-24GTH /VP-R TC O6SP

Year	2018
Justification for New Antenna	Existing main antenna is a top-mount (candelabra) slot which cannot accommodate the post-auction channel. The proposed antenna is a broadband slot that will be shared with the WCWJ "unable to construct" post-auction facility; therefore, no upgrade costs.

**Primary 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?	Broadband

	Feed Line Size	8 3/16 inches inches
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power 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
18
20

**Primary  
Antenna**

**Other Antenna Cost Not Listed**

Name	Description
<b>Antenna adapter</b>	ANTENNA WEDDING CAKE MOUNTING ADAPTER.
<b>Shipping</b>	Shipping costs: \$9,800
<b>Extension Pole</b>	MOUNTING POLE FOR TOP MOUNTING ANTENNA IN ORDER TO MAINTAIN FAA HEIGHT.

**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	Horizontal
	Type	Broadband Slot
	Number of Stations Supported	2
	Number of Panels/Bays	8
	Lower Limit	195.00 MHz
	Upper Limit	213.00 MHz
	Design power capacity in use	100.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	82.8 kW
	Manufacturer	
	Model	TLSV-8BB
	Year	2018



Justification for New Antenna	The WTLV and WJXX VHF stations share an antenna on the candelabra and require an interim antenna during the WJXT /WCWJ repack in order to remain on the air as required in the lease agreement. The ERP above combines ERPs for WTLV /WJXX since shared.
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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	4 1/16 inches
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for an 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

**Enter a list of RF channel numbers.**

RF Channel Number
10
13

**Interim Antenna**

**Other Antenna Cost Not Listed**

Name	Description
Shipping	Shipping costs: \$5,400

**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?	No
	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	1
	Number of Panels/Bays	24
	Lower Limit	638.00 MHz
	Upper Limit	644.00 MHz
	Design power capacity in use	100.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	976.0 kW
	Manufacturer	
	Model	TFU-24WB C160
Year	2018	

Justification for New Antenna	An interim antenna is necessary to keep station on air during primary antenna replacement & for duration of assigned phase. Interim facility will be located at an alternate site. The TFU-24WB cost is equivalent to a single-channel interim antenna.
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**Interim Antenna**

**Other Antenna Costs**

Section	Question	Response
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	B
	Feed Line Size	7 3/16 inches
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for an 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

**Interim  
Antenna**

**Other Antenna Cost Not Listed**

Name	Description
Shipping	Shipping cost: \$5,400

**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	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1155 feet per run

**Primary  
Transmission  
Line**

**New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Type	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1155 feet per run



Justification for New Transmission Line

The power rating for 7-3/16" line is not capable of handling the power required for WJXT and WCWJ shared operation. The line is considered an upgrade; however, it will result in an overall system savings since WCWJ and WJXT stations will share the costs.

**Primary  
Transmission  
Line**

**Other Transmission Line Expenses Not Listed**

Name	Description
Shipping	Shipping Cost: \$5,400

**Interim  
Transmission  
Line**

**New Transmission Line**

Section	Question	Response
<p><b>New Transmission Line Costs</b></p>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Rigid
	Diameter	7 3/16 inches
	Segment Length	Broadband
	Other Segment Length	
	Number of parallel runs	1
	Length	1075 feet per run
	Justification for New Transmission Line	<p>An interim transmission line is necessary to keep the pre-auction station on the air during the primary antenna replacement and for the duration of the assigned phase. The Interim facility must be at an alternate site since the WJXT tower is fully loaded.</p>

**Interim Transmission Line**      **Other Transmission Line Expenses Not Listed**  
 Information not provided.

**Interim Transmission Line**      **New 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	4 1/16 inches
	Segment Length	Broadband
	Other Segment Length	
	Number of parallel runs	1
	Length	775 feet per run
	Justification for New Transmission Line	New broadband 4-1/16" rigid line is needed in order for the WJXX and WTLV full-service VHF facilities to operate as interim facilities during the repack build-out. This is a contractual obligation.

**Interim**      **Other Transmission Line Expenses Not Listed**  
**Transmission** information not provided.  
**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

**Auxiliary Tower**

**Add Tower**

Section	Question	Response
<b>Existing Tower Description</b>	Type of change	Modify Existing
	Tower Use	Auxiliary (Backup)
	Description of Use	Interim Tower (InSite)
	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?	No
	Is tower compliant with Rev G?	No
<b>Existing Tower Structure Registration</b>	Do you have a tower registration number?	Yes
	ASR Number	1016457
<b>Coordinates (NAD83 ( North American Datum of 1983))</b>	Latitude (NAD83)	30° 16' 36.0" N-
	Longitude (NAD83)	081° 33' 57.0" W-
	Overall Structure Height	1001.63 feet
	Support Structure Height	950.78 feet

Ground Elevation Above Mean Sea Level (AMSL)	25.92 feet
Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	IWG Towers Assets II, LLC
Date Constructed	07/01/1988

**Auxiliary 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:	Minor Reinforcements needed

**Auxiliary Tower**

**Tower Rigging Costs**

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

**Auxiliary Tower**

**Other Tower Expenses Not Listed**

Name	Description
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<b>Interim Tower Lease</b>	Monthly lease expenses at alternate site (InSite Tower) to support the side-mount interim antenna, TX line and STL for up to 6 months (see attached quote).
<b>Remove Interim Equipment</b>	Interim tower must be rigged a second time after assigned phase is complete to have the interim antenna, interim line, STL dish and waveguide removed from tower and disposed.

**Primary Tower**

**Existing Tower**

Section	Question	Response
<b>Existing Tower Description</b>	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	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	Yes
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	No
<b>Existing Tower Structure Registration</b>	Do you have a tower registration number?	No
	ASR Number	
<b>Coordinates (NAD83 ( North American Datum of 1983))</b>	Latitude (NAD83)	30° 16' 25.0" N-
	Longitude (NAD83)	081° 33' 12.0" W-
	Overall Structure Height	303.70 feet
	Support Structure Height	268.90 feet
	Ground Elevation Above Mean Sea Level (AMSL)	15.20 feet
	Structure Type	TOWER - Free Standing or Guyed Structure



Tower Owner	First Coast Tower Group
Date Constructed	01/01/1985

**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
11893	WJXX	DTV
65046	WTLV	DTV

**Other Types of Users**

Users
Two-way users

**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	Candelabra

<b>Helicopter Services Required</b>	Are helicopter services required?	Yes
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**Primary Tower**

**Other Tower Expenses Not Listed**

<b>Name</b>	<b>Description</b>
<b>Foundation Expansion</b>	Geotechnical findings indicate existing foundation loading design is not adequate to support the post-transition loads.
<b>Helicopter Site Staging Requirement</b>	Erickson Incorporated requires a 200 x 200 ft staging area for the helicopter lift. See attached quote to clear the site.
<b>Existing Tower</b>	ASR is 1017604. The tower owner name was flagged by this application when it pre-filled so we had to manually enter. FAA & ASR required as a result of changing the top-mount antenna.

**Outside Professional Services Costs**

Section	Question	Response
<b>Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	850
	Explanation	It will be necessary to schedule and coordinate multiple vendors, complete progress reports, and update Schedule 399. Station does not have available personnel or personnel trained in project management for such complex projects.
<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	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	
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	Yes

Number of Days	45
Justification	It will be necessary to survey the site, plan the equipment, develop specifications for purchasing, and oversee multiple vendor RF projects. Station does not have available personnel or personnel trained in such services.

**Outside Professional Services Costs**

**Other Professional Services Expenses Not Listed**

Name	Description
<b>Environmental Impact Study</b>	Study conducted due to presence of visible mold in existing interim building. Building determined to be uninhabitable (shared cost with WCWJ).
<b>Geotechnical Report</b>	Required for new interim transmitter building container (shared cost with WCWJ).
<b>Intermod Study at Interim Site</b>	Tower owner requires an intermod study (see attached quote from InSite Towers, LLC)
<b>Osborn Engineering Examination of Interim Site</b>	Professional Services - review existing drawings, design interim transmitter building, prepare conceptual site plan layout, prepare construction documents, provide construction administration services (shared cost with WCWJ).

<p><b>Osborn Engineering Main Transmitter Facility</b></p>	<p>Professional Services - main transmitter facility site assessment consisting of on-site laser scanning of both the interior and exterior of the WJXT main transmitter facility (shared costs with WCWJ).</p>
<p><b>Other Engineering Services</b></p>	<p>Fewer Project Management "PM" tasks are required &amp; Other Engineering Services "OES" are required, therefore the PM total has been reduced to 850 hrs (\$127,500 at \$150/hr), &amp; a new OES category has been created &amp; funded with the money removed from PM.</p>
<p><b>Other Legal Services</b></p>	<p>Other Legal Services related to the DTV Repack</p>
<p><b>Topographic Survey</b></p>	<p>Required for new interim transmitter building container (shared cost with WCWJ).</p>

**Other Expenses**

Section	Question	Response
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	No
	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	No
	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**

<b>Name</b>	<b>Description</b>
<b>STL System</b>	Microwave dish required for interim studio to transmitter link (STL) to be operated up to 6 months. Receiver, waveguide, licensing, etc. required for interim STL. See attached STL quotes.
<b>Sales Tax</b>	Sales Tax



**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>Interim Transmitter THU9EVO-36</b>	<b>\$2,632,310.00</b>	<b>\$1,998,710.00</b>		<b>\$197,083.06</b>	
Back-up Generator	<i>\$132,500.00</i>	\$132,500.00	Back-up generator to be shared at interim site with WCWJ and WJXT. Cost of back-up generator is \$265,00; however, shared cost is \$132,500 (see attached back-up generator quote from Olympian Generators)	\$59,530.00	N/A
Cooling Pumps Stacking Kit	<i>\$2,500.00</i>	\$2,500.00	Required to meet space requirements in interim transmitter container (building). See Rohde & Schwarz quotes for WJXT interim transmitter.	N/A	N/A

Additional RF Components	<b><i>\$17,550.00</i></b>	\$17,550.00	RF Components for 2+2 cabinets to meet space requirements in interim transmitter container (building). See Rohde & Schwarz quotes for WJXT interim transmitter.	\$14,239.56	N/A
50 kW Reject Load	<b><i>\$10,112.50</i></b>	\$10,112.50	See attached Rohde & Schwarz quote	N/A	N/A
Required Extra Glycose	<b><i>\$12,000.00</i></b>	\$12,000.00	See Rohde & Schwarz quote for WJXT interim transmitter.	N/A	N/A
Split Configuration	<b><i>\$3,950.00</i></b>	\$3,950.00	See attached Rohde & Schwarz quote	N/A	N/A
Transmitter Interconnect	<b><i>\$9,600.00</i></b>	\$9,600.00	See attached Rohde & Schwarz quote	N/A	N/A
UHF inside RF system including switching	\$147,500.00	\$140,000.00	N/A	N/A	N/A

Other -- Building Addition Size: 450.0	<b><i>\$254,643.50</i></b>	\$254,643.50	Attached letter from InSite Tower (interim tower) states that new building must be provided. Attached quotes from Osborn Engineering & Advantage Structures for a new 450 sq ft building is \$509,287 (\$444,940 + \$64,347). Shared costs equates to \$254,643.50.	N/A	N/A
10 Ton system	\$38,900.00	\$37,000.00	N/A	N/A	N/A
Other Electrical Service: Additional services required to install new transmitter at alternate site (see attached quotes for monthly lease expenses; transmitter building costs; and electrical services costs).	<b><i>\$88,054.00</i></b>	\$88,054.00	Diamond Electric services was retained by Dermac Group in order to modify on- site transformer to provide required service to new interim building (container). Dermac Group is a sub for Rohde & Schwarz.	\$88,054.00	N/A

3" Rigid Conduit and Wiring (Cost per foot)	\$26,000.00	\$24,500.00	N/A	N/A	N/A
Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$13,700.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$1,170,300.00	See attached Rohde & Schwarz quote. See justification box in transmitter section for TPO calculations and transmitter selection justification.	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	\$29,700.00	N/A
Transformer 3 phase /480v - 500 KVA	\$48,400.00	\$46,000.00	N/A	\$5,559.50	N/A
<b>Primary Transmitter THU9EVO-24</b>	<b>\$1,797,412.50</b>	<b>\$1,117,612.50</b>		<b>\$0.00</b>	
Switch	<i>\$30,000.00</i>	\$30,000.00	N/A	N/A	N/A
Standby Exciter and Switch	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A

8-Pole Mask Filter	<b><i>\$99,700.00</i></b>	\$99,700.00	8-pol mask filter required due to 1st-adjacent station issue. See attached Rohde & Schwarz quote.	N/A	N/A
50 kW Reject Load	<b><i>\$4,812.50</i></b>	\$4,812.50	Outside heat exchanger kit: \$4,812.50. See Rohde & Schwarz quote.	N/A	N/A
Other Electrical Service: Remove beam supplies and install new transformers.	<b><i>\$25,000.00</i></b>	\$25,000.00	N/A	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$26,000.00	\$24,500.00	N/A	N/A	N/A
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$10,000.00	See attached Rohde & Schwarz quote.	N/A	N/A

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$825,300.00	See attached Rohde & Schwarz quote. See justification box in transmitter section for TPO calculations and transmitter selection justification.	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
10 Ton system	\$38,900.00	\$37,000.00	N/A	N/A	N/A
<b>Sub-total</b>	\$4,429,722.50	\$3,116,322.50	N/A	\$197,083.06	N/A
<b>Total for all systems</b>	\$8,615,310.38	\$6,141,230.83	N/A	\$761,145.40	N/A

## Components

### Actual Information

Description	File Name
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Back-up Generator	<p><b>Component Description:</b> WJXT R&amp;S inv #9500083892 Interim Electrical temporary generator UL20180807jgv1</p> <p><b>Amount:</b> \$9,155.00</p> <p><b>Component Description:</b> Diesel Serv-Supp inv #110000051 Backup Generator UL20180905jgv1 50% to WJXT 50% to WCWJ</p> <p><b>Amount:</b> \$50,375.00</p>
Cooling Pumps Stacking Kit	Information not provided.
Additional RF Components	<p><b>Component Description:</b> WJXT R&amp;S inv #9500083874 Interim Elbow UL20180809jgv1</p> <p><b>Amount:</b> \$14,239.56</p>
50 kW Reject Load	Information not provided.
Required Extra Glycose	Information not provided.
Split Configuration	Information not provided.
Transmitter Interconnect	Information not provided.
UHF inside RF system including switching	Information not provided.
Other -- Building Addition Size: 450.0	Information not provided.
10 Ton system	Information not provided.

<p>Other Electrical Service: Additional services required to install new transmitter at alternate site (see attached quotes for monthly lease expenses; transmitter building costs; and electrical services costs).</p>	<p><b>Component Description:</b> WJXT R&amp;S inv #9500083892 Interim Electrical installation UL20180807jgv1</p> <p><b>Amount:</b> \$78,570.00</p> <p><b>Component Description:</b> WJXT R&amp;S inv #9500083846 Interim Main Panel UL20180807jgv1</p> <p><b>Amount:</b> \$9,484.00</p>
<p>3" Rigid Conduit and Wiring (Cost per foot)</p>	<p>Information not provided.</p>
<p>Service entrance 3 phase /800 amp/208 volt</p>	<p>Information not provided.</p>
<p>UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW</p>	<p>Information not provided.</p>
<p>Switchgear - industrial 800 amp</p>	<p><b>Component Description:</b> WJXT R&amp;S inv #9500083892 Interim Electrical switchgear UL20180807jgv1</p> <p><b>Amount:</b> \$29,700.00</p>
<p>Transformer 3 phase/480v - 500 KVA</p>	<p><b>Component Description:</b> Coffman Elec inv #131850E Automatic Transfer Switch UL20180905jgv1 50% to WJXT 50% to WCWJ</p> <p><b>Amount:</b> \$5,559.50</p>
<p>Switch</p>	<p>Information not provided.</p>
<p>Standby Exciter and Switch</p>	<p>Information not provided.</p>



8-Pole Mask Filter	Information not provided.
50 kW Reject Load	Information not provided.
Other Electrical Service: Remove beam supplies and install new transformers.	Information not provided.
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Transformer 3 phase/480v - 300 KVA	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	Information not provided.
Switchgear - industrial 800 amp	Information not provided.
10 Ton system	Information not provided.

**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 TLSV-8BB</b>	<b>\$193,665.00</b>	<b>\$168,635.00</b>		<b>\$77,919.66</b>	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	See lease agreement for WTLV and WJXX with respect to reimbursement for interim VHF antenna.	\$5,760.00	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$80,000.00	See lease agreement for WTLV and WJXX with respect to reimbursement for interim VHF antenna.	\$12,368.16	N/A
Elbow complex, broadband, at antenna input, per 4 1/16. feedline (if needed)	\$10,950.00	\$10,400.00	See lease agreement for WTLV and WJXX with respect to reimbursement for interim VHF antenna.	N/A	N/A

Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$5,760.00	See lease agreement for WTLV and WJXX with respect to reimbursement for interim VHF antenna. See attached Dielectric Quote.	\$5,184.00	N/A
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$2,700.00	See lease agreement for WTLV and WJXX with respect to reimbursement for interim VHF antenna. See attached Dielectric Quote.	\$2,430.00	N/A
UHF - High Power, Side Mount, basic slot antenna, 8 bay,, 83 kW input, directional,, horizontally polarized	<b><i>\$57,975.00</i></b>	\$57,975.00	See lease agreement for WTLV and WJXX with respect to reimbursement for interim VHF antenna. See attached Dielectric Quote.	\$52,177.50	N/A
Shipping	<b><i>\$5,400.00</i></b>	\$5,400.00	N/A	N/A	N/A
<b>Interim Antenna TFU-24WB C160</b>	<b>\$217,870.00</b>	<b>\$210,064.00</b>		<b>\$89,848.80</b>	
Shipping	<b><i>\$5,400.00</i></b>	\$5,400.00	N/A	N/A	N/A

Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$17,520.00	See attached Dielectric Quote	\$7,884.00	N/A
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	\$16,850.00	\$15,264.00	See attached Dielectric Quote	\$6,868.80	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$2,880.00	N/A
UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 976 kW input, directional,, elliptically or circularly polarized	<b><i>\$160,480.00</i></b>	\$160,480.00	See attached Dielectric Quote	\$72,216.00	N/A

<b>Primary Antenna TFU-24GTH /VP-R TC O6SP</b>	<b>\$376,877.50</b>	<b>\$319,077.50</b>		<b>\$117,169.88</b>	
Extension Pole	<i>\$76,315.00</i>	\$76,315.00	Cost: \$152,630; however, it is shared cost with WCWJ, therefore, cost for WJXT is \$76,315. See attached Dielectric Quote.	\$34,341.75	N/A
Shipping	<i>\$4,900.00</i>	\$4,900.00	Cost: \$9,800; however, it is shared cost with WCWJ therefore, cost for WJXT is \$4,900. See attached Dielectric Quote.	N/A	N/A
Antenna adapter	<i>\$10,736.00</i>	\$10,736.00	Cost: \$21,472; however, it is shared cost with WCWJ, therefore, cost for WJXT is \$10,736. See attached Dielectric Quote.	\$4,831.20	N/A
Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)	\$18,950.00	\$8,880.00	Cost: \$17,760; however, it is shared cost with WCWJ, therefore, cost for WJXT is \$8,880. See attached Dielectric Quote.	\$3,996.00	N/A

New combiner, cost per channel (without antenna)	\$84,200.00	\$40,000.00	Shared expense with WCWJ	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$3,200.00	Shared expense with WCWJ	\$1,440.00	N/A
UHF - High Power Top Mount Two Station antenna elliptically or circularly polarized	<b>\$175,046.50</b>	\$175,046.50	Cost: \$350,093; however, it is shared cost with WCWJ, therefore, cost for WJXT is \$175,046.50. See attached Dielectric Quote.	\$72,560.93	N/A
<b>Sub-total</b>	\$788,412.50	\$697,776.50	N/A	\$284,938.34	N/A
<b>Total for all systems</b>	\$8,615,310.38	\$6,141,230.83	N/A	\$761,145.40	N/A

## Components

Actual Information	
Description	File Name

<p>Sweep test of existing antenna</p>	<p><b>Component Description:</b> Inv MAN00319 WJXT Int WJXX WTLV sweep 45 percent pmt 2 UL20180613jgv1</p> <p><b>Amount:</b> \$2,880.00</p> <p><b>Component Description:</b> Inv MAN00318 WJXT Int WJXX WTLV sweep 45 percent pmt 1 UL20180613jgv1</p> <p><b>Amount:</b> \$2,880.00</p>
<p>New combiner, cost per channel (without antenna)</p>	<p><b>Component Description:</b> Inv MAN00319 WJXT Int WJXX WTLV switch 45 percent pmt 2 UL20180613jgv1</p> <p><b>Amount:</b> \$6,184.08</p> <p><b>Component Description:</b> Inv MAN00318 WJXT Int WJXX WTLV switch 45 percent pmt 1 UL20180613jgv1</p> <p><b>Amount:</b> \$6,184.08</p>
<p>Elbow complex, broadband, at antenna input, per 4 1/16. feedline (if needed)</p>	<p>Information not provided.</p>

<p>Side mount brackets for high power antennas (if not included in antenna base cost)</p>	<p><b>Component Description:</b> Inv MAN00318 WJXT Int WJXX WTLV side brckts 45 percent pmt 1 UL20180613jgv1</p> <p><b>Amount:</b> \$2,592.00</p>
<p></p>	<p><b>Component Description:</b> Inv MAN00319 WJXT Int WJXX WTLV side brckts 45 percent pmt 2 UL20180613jgv1</p> <p><b>Amount:</b> \$2,592.00</p>
<p>Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)</p>	<p><b>Component Description:</b> Inv MAN00319 WJXT Int WJXX WTLV pattern scatter analysis 45 percent pmt 2 UL20180613jgv1</p> <p><b>Amount:</b> \$1,215.00</p>
<p></p>	<p><b>Component Description:</b> Inv MAN00318 WJXT Int WJXX WTLV patter scatter analysis 45 percent pmt 1 UL20180613jgv1</p> <p><b>Amount:</b> \$1,215.00</p>



<p>UHF - High Power, Side Mount, basic slot antenna, 8 bay,, 83 kW input, directional,, horizontally polarized</p>	<p><b>Component Description:</b> Inv MAN00319 WJXT Int WJXX WTLV ant 45 percent pmt 2 UL20180613jgv1</p> <p><b>Amount:</b> \$26,088.75</p> <p><b>Component Description:</b> Inv MAN00318 WJXT Int WJXX WTLV ant 45 percent pmt 1 UL20180613jgv1</p> <p><b>Amount:</b> \$26,088.75</p>
<p>Shipping</p>	<p>Information not provided.</p>
<p>Shipping</p>	<p>Information not provided.</p>
<p>Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)</p>	<p>Information not provided.</p>
<p>Side mount brackets for high power antennas (if not included in antenna base cost)</p>	<p><b>Component Description:</b> Inv MAN00267 WJXT Interim TX antenna mount 45% down payment UL20180503jgv1</p> <p><b>Amount:</b> \$7,884.00</p>
<p>Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)</p>	<p><b>Component Description:</b> Inv MAN00267 WJXT Interim elbow complex 45% down payment UL20180503jgv1</p> <p><b>Amount:</b> \$6,868.80</p>

Sweep test of existing antenna	<p><b>Component Description:</b> Inv MAN00267 WJXT Interim sweep 45% down payment UL20180503jgv1</p> <p><b>Amount:</b> \$2,880.00</p>
UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 976 kW input, directional,, elliptically or circularly polarized	<p><b>Component Description:</b> Inv MAN00267 WJXT Interim TX ant 45% down payment UL20180503jgv1</p> <p><b>Amount:</b> \$72,216.00</p>
Extension Pole	<p><b>Component Description:</b> Inv MAN00214 WCWJ WJXT Prim ant ext pole UL20180718jgv2</p> <p><b>Amount:</b> \$34,341.75</p>
Shipping	Information not provided.
Antenna adapter	<p><b>Component Description:</b> Inv MAN00214 WCWJ WJXT Primary ant adapter UL20180718jgv2</p> <p><b>Amount:</b> \$4,831.20</p>
Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)	<p><b>Component Description:</b> Inv MAN00214 WCWJ WJXT Elbow complex UL20180718jgv2</p> <p><b>Amount:</b> \$3,996.00</p>
New combiner, cost per channel (without antenna)	Information not provided.

<p>Sweep test of existing antenna</p>	<p><b>Component Description:</b> Inv MAN00214 WCWJ WJXT Sweep UL20180718jgv2</p> <p><b>Amount:</b> \$1,440.00</p>
<p>UHF - High Power Top Mount Two Station antenna elliptically or circularly polarized</p>	<p><b>Component Description:</b> Inv MAN00214 WCWJ WJXT Primary antenna UL20180718jgv2</p> <p><b>Amount:</b> \$72,560.93</p>

**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
<b>Interim Transmission Line</b>	<b>\$357,975.00</b>	<b>\$207,304.50</b>		<b>\$93,287.03</b>	
Rigid Transmission Line - copper, 7 3 /16" broadband	\$357,975.00	\$207,304.50	See Dielectric quote for WJXT interim facility	\$93,287.03	N/A
<b>Interim Transmission Line</b>	<b>\$126,325.00</b>	<b>\$94,371.75</b>		<b>\$84,934.58</b>	
Rigid Transmission Line - copper, 4 1 /16" broadband	\$126,325.00	\$94,371.75	See Dielectric quote for WJXX and WTLV combined interim facilities.	\$84,934.58	N/A
<b>Primary Transmission Line</b>	<b>\$465,745.00</b>	<b>\$161,956.20</b>		<b>\$70,675.29</b>	
Shipping	<i>\$4,900.00</i>	\$4,900.00	Shipping Cost is \$9,800; however, it is a shared expense with WJXT; therefore, WCWJ shipping cost is	N/A	N/A

Rigid Transmission Line - copper, 8 3/16" broadband	\$460,845.00	\$157,056.20	Cost: \$291,274.40; however, it is shared cost with WCWJ, therefore, cost for WJXT is \$145,637.20. See attached Dielectric Quote. The \$22,838.00 Feed Through was erroneously omitted, so the total has been increased by 50% (\$11,419.00) to \$157,056.20	\$70,675.29	N/A
<b>Sub-total</b>	\$950,045.00	\$463,632.45	N/A	\$248,896.90	N/A
<b>Total for all systems</b>	\$8,615,310.38	\$6,141,230.83	N/A	\$761,145.40	N/A

## Components

Actual Information	
Description	File Name
Rigid Transmission Line - copper, 7 3/16" broadband	<p><b>Component Description:</b> Inv MAN00267 WJXT Interim transmission line 45% down payment UL20180503jgv1</p> <p><b>Amount:</b> \$93,287.03</p>

Rigid Transmission Line - copper, 4 1/16" broadband	<p><b>Component Description:</b> Inv MAN00319 WJXT Int WJXX WTLV TLSCR 45 percent pmt 2 UL20180613jgv1</p> <p><b>Amount:</b> \$4,584.38</p>
	<p><b>Component Description:</b> Inv MAN00318 WJXT Int WJXX WTLV TLSCR 45 percent pmt 1 UL20180613jgv1</p> <p><b>Amount:</b> \$4,584.38</p>
	<p><b>Component Description:</b> Inv MAN00319 WJXT Int WJXX WTLV line 45 percent pmt 2 UL20180613jgv1</p> <p><b>Amount:</b> \$37,882.91</p>
	<p><b>Component Description:</b> Inv MAN00318 WJXT Int WJXX WTLV line 45 percent pmt 1 UL20180613jgv1</p> <p><b>Amount:</b> \$37,882.91</p>
Shipping	Information not provided.

Rigid Transmission Line -  
copper, 8 3/16" broadband

**Component Description:** Inv MAN00214  
WCWJ WJXT  
TLSCRs  
UL20180718jgv2  
**Amount:** \$1,792.80

**Component Description:** Inv MAN00214  
WCWJ WJXT  
Transmission line  
UL20180718jgv2  
**Amount:** \$63,743.94

**Component Description:** Inv MAN00214  
WCWJ WJXT Feed  
thru  
UL20180718jgv2  
**Amount:** \$5,138.55

**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 TOWER</b>	<b>\$1,070,942.00</b>	<b>\$731,026.00</b>		<b>\$9,218.75</b>	
Major tower reinforcement /modifications	\$421,000.00	\$200,000.00	Costs for WJXT tower mods are a shared expense with WCWJ.	\$4,000.00	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	\$5,218.75	N/A
Foundation Expansion	<i>\$91,642.00</i>	\$91,642.00	Quote is for \$183,284. Shared expense with WCWJ; therefore WJXT cost is \$91642.	\$0.00	N/A



Tower Helicopter Lift	<b><i>\$73,500.00</i></b>	\$73,500.00	See attached Erickson quote for \$147,000. The WJXT tower has history of using helicopter lifts since it is a complex candelabra. Shared expense with WCWJ; therefore cost is \$73,500.	N/A	N/A
Existing Tower	<b><i>\$0.00</i></b>	\$0.00	This is just a note to state that the tower has an ASR (ASRN 1017604). The tower owner name was flagged when the 399 automatically pre-filled the ASR information. Therefore, we manually entered the data.	N/A	N/A

Helicopter Site Staging Requirement	<b><i>\$37,500.00</i></b>	\$37,500.00	See attached clearing quote for \$75,000. Erickson Inc. requires a 200 x 200 ft clearing for lifts and the only way to achieve this is to have the area clear-cut and also requires a Strong Plank Steel Mat. Shared expense with WCWJ is \$37,500.	N/A	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$303,384.00	Actual costs: \$477,646 for main antenna install and \$64,561 for VHF interim antenna install (contractual obligation). Since main antenna is shared with WCWJ, the main antenna install cost for WJXT is \$238,823. Total cost is \$303,384 with VHF. See quotes.	N/A	N/A
<b>Auxiliary Tower TOWER</b>	<b>\$617,400.00</b>	<b>\$399,500.00</b>		<b>\$2,000.00</b>	

Remove Interim Equipment	<i>\$150,000.00</i>	\$150,000.00	Interim tower must be rigged a second time after WJXT tower mods and main antenna installs are complete in order to have the interim antenna, interim line, STL dish and waveguide removed from tower and disposed.	N/A	N/A
Interim Tower Lease	<i>\$60,000.00</i>	\$60,000.00	See attached InSite Tower LLC quote. Costs are based on leasing space on the interim tower for 6 months at \$10,000 per month.	N/A	N/A
Tall Tower (greater than 500')	\$210,500.00	\$100,000.00	Shared expense with WCWJ	N/A	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$75,000.00	Shared cost with WCWJ	N/A	N/A

Structural engineering tower load study for well documented tower	\$12,600.00	\$2,000.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$2,000.00	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$12,500.00	Shared expense with WCWJ	N/A	N/A
<b>Sub-total</b>	\$1,688,342.00	\$1,130,526.00	N/A	\$11,218.75	N/A
<b>Total for all systems</b>	\$8,615,310.38	\$6,141,230.83	N/A	\$761,145.40	N/A

## Components

Actual Information	
Description	File Name
Major tower reinforcement /modifications	<b>Component Description:</b>
	Inv 26120R WJXT Professional Services UL20180503jgv1
	<b>Amount:</b>
	\$3,701.80
Major tower reinforcement /modifications	<b>Component Description:</b>
	Inv 26318R WJXT Professional Services UL20180502jgv1
	<b>Amount:</b>
	\$298.20

Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	<p><b>Component Description:</b> Inv FL952GRA1422873 WCWJ Climbing Inspection UL20180605jgv2 50% to WCWJ 50% to WJXT</p> <p><b>Amount:</b> \$1,531.25</p>
	<p><b>Component Description:</b> Inv 947-05 Tower mapping UL20180712jgv2 50% to WJXT 50% to WCWJ</p> <p><b>Amount:</b> \$3,687.50</p>
Foundation Expansion	Information not provided.
Tower Helicopter Lift	Information not provided.
Existing Tower	Information not provided.
Helicopter Site Staging Requirement	Information not provided.
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Information not provided.
Remove Interim Equipment	Information not provided.
Interim Tower Lease	Information not provided.
Tall Tower (greater than 500')	Information not provided.
Minor tower reinforcement /modifications	Information not provided.

<p>Structural engineering tower load study for well documented tower</p>	<p><b>Component Description:</b> Inv FL952GRARADIO Structural Analysis UL20180521jgv2 50% to WCWJ 50% to WJXT</p> <p><b>Amount:</b> \$2,000.00</p>
<p>Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study</p>	<p>Information not provided.</p>

**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>\$559,135.00</b>	<b>\$533,875.00</b>		<b>\$10,739.35</b>	
Topographic Survey	<i>\$870.00</i>	\$870.00	Shared cost with WCWJ	N/A	N/A
Other Legal Services	<i>\$10,000.00</i>	\$10,000.00	Other Legal Services related to the DTV Repack	\$3,781.85	N/A
Other Engineering Services	<i>\$97,500.00</i>	\$97,500.00	Fewer Project Management "PM" tasks are required & Other Engineering Services "OES" are required, therefore the PM total has been reduced to 850 hrs (\$127,500 at \$150/hr), & a new OES category has been created & funded with the money removed from PM.	N/A	N/A

Osborn Engineering Main Transmitter Facility	<b><i>\$8,590.00</i></b>	\$8,590.00	Shared cost with WCWJ.	N/A	N/A
Osborn Engineering Examination of Interim Site	<b><i>\$51,710.00</i></b>	\$51,710.00	Shared cost with WCWJ. See attached Osborn Engineering quote.	N/A	N/A
Intermod Study at Interim Site	<b><i>\$500.00</i></b>	\$500.00	See attached InSite Tower LLC quote for required study. Shared cost with WCWJ.	N/A	N/A
Geotechnical Report	<b><i>\$2,035.00</i></b>	\$2,035.00	Shared cost with WCWJ	N/A	N/A
Environmental Impact Study	<b><i>\$2,420.00</i></b>	\$2,420.00	Shared cost with WCWJ	N/A	N/A
Additional Field Engineering Service, 45 Days	<b><i>\$90,000.00</i></b>	\$90,000.00	N/A	N/A	N/A
RF Exposure Measurements	\$21,050.00	\$10,000.00	Shared expense with WCWJ	\$4,400.00	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	Soil issues from GEO report	N/A	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
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 - 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
NEPA Section 106 environmental review, if needed	\$6,310.00	\$6,000.00	Soil issues from GEO report	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	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

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	\$134,300.00	\$127,500.00	Fewer Project Management "PM" tasks are required & Outside Engineering Services "OES" are required, therefore the PM total has been reduced to 850 hrs (\$127,500 at \$150/hr), & a new OES category has been created & funded with the money removed from PM.	\$2,557.50	N/A
<b>Sub-total</b>	\$559,135.00	\$533,875.00	N/A	\$10,739.35	N/A
<b>Total for all systems</b>	\$8,615,310.38	\$6,141,230.83	N/A	\$761,145.40	N/A

### Components

Actual Information	
Description	File Name
Topographic Survey	Information not provided.

Other Legal Services	<p><b>Component Description:</b> Covington inv #60780136 Various Legal UL20181022jgv1</p> <p><b>Amount:</b> \$247.50</p> <p><b>Component Description:</b> Covington inv #60793199 Various Legal UL20181023jgv1</p> <p><b>Amount:</b> \$149.47</p> <p><b>Component Description:</b> Covington inv #60780135 Various Legal UL20181019jgv1</p> <p><b>Amount:</b> \$762.97</p> <p><b>Component Description:</b> Covington inv #60774445 Various Legal UL20181022jgv1</p> <p><b>Amount:</b> \$2,621.91</p>
Other Engineering Services	Information not provided.
Osborn Engineering Main Transmitter Facility	Information not provided.
Osborn Engineering Examination of Interim Site	Information not provided.
Intermod Study at Interim Site	Information not provided.
Geotechnical Report	Information not provided.
Environmental Impact Study	Information not provided.
Additional Field Engineering Service, 45 Days	Information not provided.

RF Exposure Measurements	<p><b>Component Description:</b> Inv: WJXT RF exposure study UL20180227</p> <p><b>Amount:</b> \$4,400.00</p>
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.
Prepare request for Special Temporary Authorization	Information not provided.
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.
Attorney Fees -Prepare and File 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.

NEPA Section 106 environmental review, if needed	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	Information not provided.
Perform engineering study for new channel assignment and antenna development	Information not provided.
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	<p><b>Component Description:</b> Inv 947-31 WJXT PM 387 2017 Q4 UL20180531jgv2</p> <p><b>Amount:</b> \$300.00</p> <p><b>Component Description:</b> Inv 947-30 WJXT PM 387 2017 Q4 UL20180621jgv1</p> <p><b>Amount:</b> \$300.00</p> <p><b>Component Description:</b> Inv: WJXT Project Management UL20180227 50% to WJXT 50% to WCWJ</p> <p><b>Amount:</b> \$2,257.50</p>

**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>\$199,653.38</b>	<b>\$199,098.38</b>		<b>\$8,269.00</b>	
Equipment Storage	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$25,000.00</i>	\$25,000.00	N/A	\$1,123.50	N/A
Non-zoning permits	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Local Zoning	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
Sales Tax	<i>\$7,145.50</i>	\$7,145.50	Sales Tax	\$7,145.50	N/A

STL System	<b><i>\$43,762.88</i></b>	\$43,762.88	STL required at interim site. See attached STL quotes from Vernick Technology, Inc. and Data Flow Communications. Costs are \$87,525.75 (\$51,930.75 + \$35,595 - see attached quotes). Shared cost for WCWJ and WJXT is \$43,762.88.	N/A	N/A
MVPD Notification of Channel Change	<b><i>\$2,000.00</i></b>	\$2,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<b><i>\$10,000.00</i></b>	\$10,000.00	N/A	N/A	N/A
<b>Sub-total</b>	\$199,653.38	\$199,098.38	N/A	\$8,269.00	N/A
<b>Total for all systems</b>	\$8,615,310.38	\$6,141,230.83	N/A	\$761,145.40	N/A

### Components

Actual Information	
Description	File Name
Equipment Storage	Information not provided.
Equipment Delivery and Handling Charges	Information not provided.



Disposal Costs (for equipment and other waste, net of any salvage value)	<p><b>Component Description:</b> WJXT R&amp;S inv #9500083845 Dumpster UL20180807jgv1</p> <p><b>Amount:</b> \$1,123.50</p>
Non-zoning permits	Information not provided.
Local Zoning	Information not provided.
DTV Medical Facility Notification	Information not provided.
FCC Filing Fees - Special Temporary Authorization request	Information not provided.
Sales Tax	<p><b>Component Description:</b> WJXT R&amp;S inv #9500083892 Interim Electrical sales tax UL20180807jgv1</p> <p><b>Amount:</b> \$7,145.50</p>
STL System	Information not provided.
MVPD Notification of Channel Change	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.

**Cost Information** **Grand Total**

	<b>Predetermined Cost Estimate</b>	<b>Estimated Cost</b>	<b>Actual Cost</b>
<b>Total for all systems</b>	\$8,615,310.38	\$6,141,230.83	\$761,145.40

**Reimbursement Status**

<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
	<b>Submission of Estimated Expenses Statements</b>	<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.

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.

**Jeffrey C  
Gehman**  
*Engineering  
Associate*

10/23/2018

Certification	Section	Question	Response
	<b>Submission of Actual Cost Documentation Statements</b>	<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>Jeffrey C Gehman</b> <i>Engineering Associate</i></p> <p>10/23/2018</p>

**Attachments**