

(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility 53116 Service: DTV Call WJXT Channel: 18 (UHF)

Sign:

0000027951

Number:

ID:

File

FRN: **0002161107** Date **11/09** 

Submitted: /2018

# Applicant Information

#### **Applicant Name, Type, and Contact Information**

Applicant	Address	Phone	Email	Applicant Type
GRAHAM MEDIA GROUP, FLORIDA. INC. 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 Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

#### Preparer Contact Information

#### **Preparer Contact Name and Information**

Applicant	Address	Phone	Email
William T Godfrey , Jr Consulting Engineers Kessler and Gehman Associates, Inc.	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 alternatesite. Share main antenna and transmission line with WCWJ.

## **Transmitters**

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

## **Existing Transmitter Information**

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter  Manufacturer and Type	Manufacturer	
	Model	Sigma CD3200P2
	Year	2008
	Туре	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	42 kW

## **New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	THU9EVO- 24
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	37.0 kW
	Justification for New Transmitter	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

## **Other Transmitter Costs**

Section	Question	Response
Electrical Service	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.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Туре	Cooling Only
	Size	10 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

## **Other Transmitter Cost Not Listed**

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

## Interim Transmitter

## **New Transmitter Costs**

Section	Question	Response
New Transmitter	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
Electrical Service	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).
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Туре	Cooling Only
	Size	10 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	Yes
	Size	450.0 square feet
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A

	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A
Inside RF System	Is an additional interior RF system required to support this interim transmitter?	Yes

## Interim Transmitter

## **Other Transmitter Cost Not Listed**

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

#### **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?	Yes
Existing Antenna	Class	Full Power
Manufacturer and Type	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	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

## 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?	Yes
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna	Class	Full Power
Manufacturer and Types	Mounting	Top Mount
	Antenna position in stack	Тор
	Polarization	Elliptical
	Туре	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
	"unable to construct"
	post-auction facility;
	therefore, no upgrade
	costs.

## Primary Antenna

## **Other Antenna Costs**

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Туре	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
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Broadband

	Feed Line Size	8 3/16 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

# Enter a list of RF channel numbers.

RF Channel Number	
18	
20	

## Primary Antenna

## **Other Antenna Cost Not Listed**

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

### Interim Antenna

## **New Antenna Costs**

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	Yes
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna	Class	Full Power
Manufacturer and Type	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	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.

### Interim Antenna

## **Other Antenna Costs**

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Туре	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

Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	В
	Feed Line Size	4 1/16 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
Sweep Test	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
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A

	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna	Class	Full Power
Manufacturer and Type	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Туре	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.

## Interim Antenna

#### **Other Antenna Costs**

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	В
	Feed Line Size	7 3/16 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
Sweep Test	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 <sup>Seffien</sup>	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

# Primary Transmission Line

## **Existing Transmission Line**

n Line Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission	Manufacturer	
Line Manufacturer and Type	Туре	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 New Transmission Line

Transmission

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?	Yes
	Туре	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.

## Other Transmission Line Expenses Not Listed

### Primary Transmission

sion	Name	Description
	Shipping	Shipping Cost: \$5,400

## **New Transmission Line**

Interim	14047 110
Transmissio	n Line Settion

New Transmission Line
Costs

	Question	Response
ne	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Туре	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	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.

# Interim Other Transmission Line Expenses Not Listed

Transmission loine tion not provided.

## New Transmission Line

Interim		
<b>Transmissi</b>	onLip	en.

n settion	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Туре	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 loine tion 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

## Auxiliary Tower

## **Add Tower**

Section	Question	Response
Existing Tower Description	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
Existing Tower Structure	Do you have a tower registration number?	Yes
Registration	ASR Number	1016457
Coordinates (NAD83 ( North American Datum of	Latitude (NAD83)	30° 16' 36.0" N-
1983))	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	
------	-------------	--

Interim Tower Lease	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).
Remove Interim Equipment	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
Existing Tower Description	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
Existing Tower Structure	Do you have a tower registration number?	No
Registration	ASR Number	
Coordinates (NAD83 ( North American Datum of 1983))	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

Helicopter Services	Are helicopter services required?	Yes
Required		

## Primary Tower

## Other Tower Expenses Not Listed

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

Outside Professional

Section	Question	Response
Services Costs Outside Project Management Services	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.
Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes

	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting	Prepare and file Form FCC Construction Permit Application	Yes
Services	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	Yes
	Environmental Assessment	Yes
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	Yes
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	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

### Other Professional Services Expenses Not Listed

Services Costs	Description
Intermod Study at Interim Site	Tower owner requires an intermod study (see attached quote from InSite Towers, LLC)
Osborn Engineering Examination of Interim Site	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).
Other Legal Services	Other Legal Services related to the DTV Repack
Topographic Survey	Required for new interim transmitter building container (shared cost with WCWJ).
Environmental Impact Study	Study conducted due to presence of visible mold in existing interim building. Building determined to be uninhabitable (shared cost with WCWJ).

Geotechnical Report	Required for new interim transmitter building container (shared cost with WCWJ).
Osborn Engineering Main Transmitter Facility	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).
Other Engineering Services	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.

# Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
Facility Expenses	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
Permit and Filing Costs	Local Zoning	Yes
	Non-zoning permits	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	No
	FCC Special Temporary Authority Application	Yes
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD  Notification of a Channel Change?	Yes

# Other Expenses

#### Other Expenses Not Listed

Name	Description
STL System	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.
Sales Tax	Sales Tax

#### **Transmitters**

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmitter THU9EVO-36	\$2,632,310.00	\$1,998,710.00		\$215,578.03	
Cooling Pumps Stacking Kit	\$2,500.00	\$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
Required Extra Glycose	\$12,000.00	\$12,000.00	See Rohde & Schwarz quote for WJXT interim transmitter.	N/A	N/A
50 kW Reject Load	\$10,112.50	\$10,112.50	See attached Rohde & Schwarz quote	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
Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$13,700.00	N/A	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
3" Rigid Conduit and Wiring (Cost per foot)	\$26,000.00	\$24,500.00	N/A	N/A	N/A

Other	\$88,054.00	\$88,054.00	Diamond	\$88,054.00	N/A
Electrical Service:			Electric services was		
Additional					
services			retained by Dermac		
required to install new			Group in order to		
transmitter			modify on-		
at alternate			site		
site (see			transformer		
attached			to provide		
quotes for			required		
monthly			service to		
lease			new interim		
expenses;			building		
transmitter			(container).		
building			Dermac		
costs; and			Group is a		
electrical			sub for		
services			Rohde &		
costs).			Schwarz.		
10 Ton system	\$38,900.00	\$37,000.00	N/A	N/A	N/A
UHF inside	\$147,500.00	\$140,000.00	N/A	N/A	N/A
RF system including switching					
Split	\$3,950.00	\$3,950.00	See	N/A	N/A
Configuration			attached		
			Rohde &		
			Schwarz		
			quote		

Additional RF	\$17,550.00	\$17,550.00	RF Components for 2+2	\$14,239.56	N/A
Components			cabinets to		
			meet space		
			requirements		
			in interim		
			transmitter		
			container		
			(building).		
			See Rohde		
			& Schwarz		
			quotes for		
			WJXT		
			interim		
			transmitter.		
Transmitter	\$9,600.00	\$9,600.00	See	N/A	N/A
Interconnect			attached		
			Rohde &		
			Schwarz		
			quote		
Other	\$254,643.50	\$254,643.50	Attached	\$18,494.97	N/A
Building			letter from		
Addition			InSite Tower		
Size: 450.0			(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.		

Back-up	\$132,500.00	\$132,500.00	Back-up	\$59,530.00	N/A
Generator	. ,	,	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)		
Primary Transmitter THU9EVO-24	\$1,797,412.50	\$1,117,612.50		\$0.00	
50 kW	\$4,812.50	\$4,812.50	Outside heat	N/A	N/A
Reject Load	Ψ1,012100	Ψ1,012.00	exchanger	14// 1	1471
reject Load			kit:		
			\$4,812.50.		
			See Rohde		
			& Schwarz		
			quote.		
UHF - Liquid	\$1,473,000.00	\$825,300.00	See	N/A	N/A
Cooled Solid			attached		
State			Rohde &		
Transmitter			Schwarz		
35 - 50 kW			quote. See		
			justification		
			box in		
			transmitter		
			section for		
			section for TPO		
			section for TPO calculations		
			section for TPO calculations and		
			section for TPO calculations and transmitter		
			section for TPO calculations and transmitter selection		
			section for TPO calculations and transmitter		

Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$10,000.00	See attached Rohde & Schwarz quote.	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$26,000.00	\$24,500.00	N/A	N/A	N/A
Other Electrical Service: Remove beam supplies and install new transformers.	\$25,000.00	\$25,000.00	N/A	N/A	N/A
10 Ton system	\$38,900.00	\$37,000.00	N/A	N/A	N/A
8-Pole Mask Filter	\$99,700.00	\$99,700.00	8-pol mask filter required due to 1st- adjacent station issue. See attached Rohde & Schwarz quote.	N/A	N/A
Switch	\$30,000.00	\$30,000.00	N/A	N/A	N/A
Standby Exciter and Switch	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Sub-total	\$4,429,722.50	\$3,116,322.50	N/A	\$215,578.03	N/A
Total for all systems	\$8,623,878.88	\$6,149,799.33	N/A	\$962,646.98	N/A

Actual Information	
Description	File Name

Cooling Pumps Stacking Kit	Information not provided.	
Required Extra Glycose	Information not provided.	
50 kW Reject Load	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	Information not provided.	
Service entrance 3 phase /800 amp/208 volt	Information not provided.	
Switchgear - industrial 800 amp	Component Description:  Amount:	WJXT R&S inv #9500083892 Interim Electrical switchgear UL20180807jgv1 \$29,700.00
Transformer 3 phase/480v - 500 KVA	Component Description:  Amount:	Coffman Elec inv #131850E Automatic Transfer Switch UL20180905jgv1 50% to WJXT 50% to WCWJ \$5,559.50
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	

Other Electrical Service: Additional services required to install new transmitter at alternate site (see attached quotes for	Component Description:	WJXT R&S inv #9500083846 Interim Main Panel UL20180807jgv1
monthly lease expenses; transmitter building costs; and electrical services	Amount:	\$9,484.00
costs).	Component Description:  Amount:	WJXT R&S inv #9500083892 Interim Electrical installation UL20180807jgv1 \$78,570.00
10 Ton system	Information not provided.	
UHF inside RF system including switching	Information not provided.	
Split Configuration	Information not provided.	
Additional RF Components	Component Description:	WJXT R&S inv #9500083874 Interim Elbow UL20180809jgv1
	Amount:	\$14,239.56
Transmitter Interconnect	Information not provided.	
Other Building Addition		
Size: 450.0	Component Description:	Osborn inv #28314 Prof srvcs 180224 - 180330
		UL20181109jgv1

	1	
Back-up Generator		
	Component Description:	WJXT R&S inv #9500083892 Interim Electrical temporary generator UL20180807jgv1
	Amount:	\$9,155.00
	Component Description:	Diesel Serv-Supp inv #110000051 Backup Generator UL20180905jgv1 50% to WJXT 50% to WCWJ
	Amount:	\$50,375.00
50 kW Reject Load	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	Information not provided.	
Switchgear - industrial 800 amp	Information not provided.	
Transformer 3 phase/480v - 300 KVA	Information not provided.	
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Other Electrical Service: Remove beam supplies and install new transformers.	Information not provided.	
10 Ton system	Information not provided.	
8-Pole Mask Filter	Information not provided.	
Switch	Information not provided.	
Standby Exciter and Switch	Information not provided.	

#### **Antennas**

Description Interim Antenna TLSV-8BB	Predetermined Cost Estimate \$193,717.50	Estimated Cost \$168,687.50	Estimated Cost Justification	Actual Cost \$83,769.66	Actual Cost Justification
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
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
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

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
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
Shipping	\$5,400.00	\$5,400.00	N/A	N/A	N/A
UHF - High Power, Side Mount, basic slot antenna, 8 bay,, 83 kW input, directional,, horizontally polarized	\$58,027.50	\$58,027.50	See lease agreement for WTLV and WJXX with respect to reimbursement for interim VHF antenna. See attached Dielectric Quote.	\$58,027.50	N/A
Interim Antenna TFU-24WB C160	\$217,870.00	\$210,064.00		\$89,848.80	
UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 976 kW input, directional,, elliptically or circularly	\$160,480.00	\$160,480.00	See attached Dielectric Quote	\$72,216.00	N/A

Primary Antenna TFU-24GTH /VP-R TC	\$385,393.50	\$327,593.50		\$224,925.97	
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
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
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
Shipping	\$5,400.00	\$5,400.00	N/A	N/A	N/A
of existing antenna			N/A	\$2,880.00	N/A

Extension Pole	\$76,315.00	\$76,315.00	Cost: \$152,630; however, it is shared cost with WCWJ, therefore, cost for WJXT is	\$55,437.52	N/A
			\$76,315. See attached Dielectric Quote.		
Shipping	\$4,900.00	\$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	\$19,252.00	\$19,252.00	Cost: \$21,472; however, it is shared cost with WCWJ, therefore, cost for WJXT is \$10,736. See attached Dielectric Quote. A 2nd adapter is required at a total price of \$17,032 which is \$8,516 to WCWJ and \$8,516 to WJXT	\$13,494.60	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.	\$7,992.00	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	\$2,880.00	N/A
UHF - High Power Top Mount Two Station antenna elliptically or circularly polarized	\$175,046.50	\$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.	\$145,121.85	N/A
Sub-total	\$796,981.00	\$706,345.00	N/A	\$398,544.43	N/A
Total for all systems	\$8,623,878.88	\$6,149,799.33	N/A	\$962,646.98	N/A

<b>Actual Information</b>	
Description	File Name

Pattern scatter analysis for side mount high/med **Component Description:** Inv MAN00318 power antennas (if not WJXT Int WJXX included in antenna base WTLV patter scatter cost) analysis 45 percent pmt 1 UL20180613jgv1 \$1,215.00 Amount: **Component Description:** Inv MAN00319 **WJXT Int WJXX** WTLV pattern scatter analysis 45 percent pmt 2 UL20180613jgv1 Amount: \$1,215.00 Side mount brackets for high power antennas (if **Component Description:** Inv MAN00319 not included in antenna WJXT Int WJXX base cost) WTLV side brckts 45 percent pmt 2 UL20180613jgv1 Amount: \$2,592.00 **Component Description:** Inv MAN00318 WJXT Int WJXX WTLV side brckts 45 percent pmt 1 UL20180613jgv1 Amount: \$2,592.00 Elbow complex, Information not provided. broadband, at antenna input, per 4 1/16. feedline

(if needed)

Amount:	\$2,880.00
	UL20180613jgv1
	percent pmt 1
	WTLV sweep 45
Component Description:	Inv MAN00318 WJXT Int WJXX
	• •
Amount:	\$2,880.00
	UL20180613jgv1
	WTLV sweep 45 percent pmt 2
	WJXT Int WJXX
Component Description:	Inv MAN00319
, with the same of	ψο, το που
Amount:	UL20180613jgv1 \$6,184.08
	percent pmt 1
	WTLV switch 45
	WJXT Int WJXX
Component Description:	Inv MAN00318
AIIIVUIII.	ψ0, 10 <del>4</del> .00
Amount:	\$6,184.08
	percent pmt 2 UL20180613jgv1
	WTLV switch 45
Component Description:	WJXT Int WJXX
	Amount:  Component Description:  Amount:  Component Description:

UHF - High Power, Side Mount, basic slot antenna, **Component Description:** ERI inv #WJXT-005 8 bay,, 83 kW input, Antenna removal directional,, horizontally UL20181109jgv1 polarized Amount: \$5,850.00 Inv MAN00319 **Component Description:** WJXT Int WJXX WTLV ant 45 percent pmt 2 UL20180613jgv1 Amount: \$26,088.75 **Component Description:** Inv MAN00318 WJXT Int WJXX WTLV ant 45 percent pmt 1 UL20180613jgv1 **Amount:** \$26,088.75 UHF - High Power, Side Mount, basic slot antenna, **Component Description:** Inv MAN00267 24 bay,, 976 kW input, WJXT Interim TX directional,, elliptically or ant 45% down circularly polarized payment UL20180503jgv1 Amount: \$72,216.00 Sweep test of existing antenna **Component Description:** Inv MAN00267 WJXT Interim sweep 45% down payment UL20180503jgv1 Amount: \$2,880.00 Shipping Information not provided. Pattern scatter analysis for Information not provided. side mount high/med power antennas (if not included in antenna base cost)

Side mount brackets for high power antennas (if not included in antenna base cost)	Component Description:  Amount:	Inv MAN00267 WJXT Interim TX antenna mount 45% down payment UL20180503jgv1 \$7,884.00
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	Component Description:	Inv MAN00267 WJXT Interim elbow complex 45% down payment UL20180503jgv1
	Amount:	\$6,868.80
Extension Pole		
	Component Description:	Die inv #MAN00299 Prim ant ext pole UL20181106jgv1
	Amount:	\$21,095.77
	Component Description:	Inv MAN00214 WCWJ WJXT Prim
		ant ext pole UL20180718jgv2
	Amount:	\$34,341.75
	Information not provided.	

Antenna adapter		
	Component Description:	Inv MAN00214 WCWJ WJXT
		Primary ant adapter
		UL20180718jgv2
	Amount:	\$4,831.20
	Component Description:	Die inv #MAN00299
		Primary ant adapter UL20181106jgv1
	Amount:	\$4,831.20
	Component Description:	Die inv #MAN00299
		Primary ant adapter
		UL20181106jgv1
	Amount:	\$3,832.20
Elbow complex, broadband, at antenna	Component Description:	Die inv #MAN00299
input, per 8 3/16. feedline	Component Description.	Elbow complex
(if needed)		UL20181106jgv1
	Amount:	\$3,996.00
	Component Description:	Inv MAN00214
		WCWJ WJXT
		Elbow complex
	Amount:	UL20180718jgv2 \$3,996.00
	Amount.	ф <del>о,330</del> .00
New combiner, cost per channel (without antenna)	Information not provided.	

Sweep test of existing		
antenna	Component Description:	Inv MAN00214
		WCWJ WJXT
		Sweep
		UL20180718jgv2
	Amount:	\$1,440.00
	Component Description:	Die inv #MAN00299
		Sweep
		UL20181106jgv1
	Amount:	\$1,440.00
UHF - High Power Top Mount Two Station		
antenna elliptically or	Component Description:	Die inv #MAN00299
circularly polarized		Primary antenna
circularly polarized		UL20181106jgv1
	Amount:	\$72,560.92
	Component Description:	Inv MAN00214
	35ps	WCWJ WJXT
		Primary antenna
		UL20180718jgv2
	Amount:	\$72,560.93

#### **Transmission Line**

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cos Justification
Interim Transmission Line	\$357,975.00	\$207,304.50		\$93,287.03	
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
Interim Transmission Line	\$126,325.00	\$94,371.75		\$84,934.58	
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
Primary Transmission Line	\$465,745.00	\$161,956.20		\$137,893.01	
Shipping	\$4,900.00	\$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	\$460,845.00	\$157,056.20	Cost: \$291,274.40;	\$137,893.01	N/A
Line -			however, it is		
copper, 83			shared cost		
/16"			with WCWJ,		
broadband			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		
Sub-total	\$950,045.00	\$463,632.45	N/A	\$316,114.62	N/A
Total for all systems	\$8,623,878.88	\$6,149,799.33	N/A	\$962,646.98	N/A

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

Rigid Transmission Line -		
copper, 4 1/16" broadband	Component Description:	Inv MAN00318
		WJXT Int WJXX
		WTLV TLSCR 45
		percent pmt 1
		UL20180613jgv1
	Amount:	\$4,584.38
	Component Description:	Inv MAN00319
	2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	WJXT Int WJXX
		WTLV TLSCR 45
		percent pmt 2
		UL20180613jgv1
	Amount:	\$4,584.38
	Component Description:	Inv MAN00318 WJXT Int WJXX
		WTLV line 45
		percent pmt 1
		UL20180613jgv1
	Amount:	\$37,882.91
	Component Description:	Inv MAN00319
	2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	WJXT Int WJXX
		WTLV line 45
		percent pmt 2
		UL20180613jgv1
	Amount:	\$37,882.91

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

Component Description: Inv MAN00214

MCM1 M1XL

**TLSCRs** 

UL20180718jgv2

**Amount:** \$1,792.80

Component Description: Inv MAN00214

WCWJ WJXT Feed

thru

UL20180718jgv2

**Amount:** \$5,138.55

Component Description: Die inv #MAN00299

**TLSCRs** 

UL20181106jgv1

**Amount:** \$1,792.80

Component Description: Die inv #MAN00299

Transmission line UL20181106jgv1

**Amount:** \$61,296.17

Component Description: Die inv #MAN00299

Feed thru

UL20181106jgv1

**Amount:** \$4,128.75

Component Description: Inv MAN00214

WCWJ WJXT Transmission line UL20180718jgv2

**Amount:** \$63,743.94

#### **Tower Equipment and Rigging Costs**

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	\$1,070,942.00	\$731,026.00		\$9,218.75	
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	\$91,642.00	\$91,642.00	Quote is for \$183,284. Shared expense with WCWJ; therefore WJXT cost is \$91642.	\$0.00	N/A

Tower	\$73,500.00	\$73,500.00	See	N/A	N/A
Helicopter Lift			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.		
Existing Tower	\$0.00	\$0.00	This is just a	N/A	N/A
-			note to state		
			that the		
			tower has an		
			ASR (ASRN		
			1017604).		
			The tower		
			owner name		
			was flagged		
			when the		
			399		
			399 automatically		
			automatically		
			automatically pre-filled the		
			automatically pre-filled the ASR		
			automatically pre-filled the ASR information.		
			automatically pre-filled the ASR information. Therefore,		

Auxiliary Fower TOWER	\$617,400.00	\$399,500.00		\$2,000.00	
			See quotes.		
			with VHF.		
			\$303,384		
			Total cost is		
			\$238,823.		
			install cost for WJXT is		
			antenna		
			main		
			WCWJ, the		
			shared with		
			antenna is		
			Since main		
			obligation).		
			(contractual		
antennas)			install		
stacked			antenna		
and/or			VHF interim		
candelabras			\$64,561 for		
those with			install and		
example,			antenna		
(includes, for			main		
Complex Tower	\$421,000.00	\$303,384.00	Actual costs: \$477,646 for	N/A	N/A
	0.00.000				
			is \$37,500.		
			with WCWJ		
			expense		
			Plank Steel Mat. Shared		
			a Strong		
			also requires		
			clear-cut and		
			the area		
			is to have		
			achieve this		
			only way to		
			lifts and the		
			clearing for		
			200 x 200 ft		
			requires a		
			Erickson Inc.		
			\$75,000.		
Requirement			clearing quote for		
			attached		
Staging					

Remove Interim Equipment	\$150,000.00	\$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	\$60,000.00	\$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
Sub-total	\$1,688,342.00	\$1,130,526.00	N/A	\$11,218.75	N/A
Total for all systems	\$8,623,878.88	\$6,149,799.33	N/A	\$962,646.98	N/A

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

Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study

Component Description: Inv 947-05 Tower

mapping

UL20180712jgv2 50% to WJXT 50% to

WCWJ

**Amount:** \$3,687.50

Component Description: Inv

FL952GRA1422873 WCWJ Climbing Inspection

UL20180605jgv2 50% to WCWJ 50%

to WJXT

**Amount:** \$1,531.25

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)  Remove Interim Equipment Information not provided.  Interim Tower Lease Information not provided.  Tall Tower (greater than 500')  Minor tower reinforcement /modifications		
Existing Tower Information not provided.  Helicopter Site Staging Requirement Information not provided.  Complex Tower (includes, for example, those with candelabras and/or stacked antennas)  Remove Interim Equipment Information not provided.  Interim Tower Lease Information not provided.  Tall Tower (greater than 500')  Minor tower reinforcement Information not provided.	Foundation Expansion	Information not provided.
Helicopter Site Staging Requirement  Complex Tower (includes, for example, those with candelabras and/or stacked antennas)  Remove Interim Equipment  Information not provided.  Information not provided.  Interim Tower Lease  Information not provided.  Tall Tower (greater than 500')  Minor tower reinforcement  Information not provided.	Tower Helicopter Lift	Information not provided.
Requirement  Complex Tower (includes, for example, those with candelabras and/or stacked antennas)  Remove Interim Equipment  Information not provided.  Interim Tower Lease  Information not provided.  Tall Tower (greater than 500')  Minor tower reinforcement  Information not provided.	Existing Tower	Information not provided.
(includes, for example, those with candelabras and/or stacked antennas)  Remove Interim	,	Information not provided.
Equipment  Interim Tower Lease Information not provided.  Tall Tower (greater than 500')  Minor tower reinforcement Information not provided.	(includes, for example, those with candelabras	Information not provided.
Tall Tower (greater than 500')  Minor tower reinforcement Information not provided.		Information not provided.
500')  Minor tower reinforcement Information not provided.	Interim Tower Lease	Information not provided.
· · · · · · · · · · · · · · · · · · ·	\ <del>-</del>	Information not provided.
		Information not provided.

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

#### **Outside Professional Services**

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost	
Outside Professional Services	\$559,135.00	\$533,875.00		\$12,922.15		
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,000.00	N/A	N/A	N/A	
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A	
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A	
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	N/A	N/A	

Project management of	\$134,300.00	\$127,500.00	Fewer Project	\$2,857.50	N/A
the transition			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.		
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Address	\$2,630.00	\$2,500.00	N/A	N/A	N/A
transition					
timing and					
coordination					
ssues w/ other					
stations and					
wireless					
Perform	\$7,360.00	\$7,000.00	N/A	N/A	N/A
engineering					
study for new					
channel					
channel assignment					

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Osborn Engineering Main Transmitter Facility	\$8,590.00	\$8,590.00	Shared cost with WCWJ.	N/A	N/A
Other Legal Services	\$10,000.00	\$10,000.00	Other Legal Services related to the DTV Repack	\$4,414.65	N/A
Osborn Engineering Examination of Interim Site	\$51,710.00	\$51,710.00	Shared cost with WCWJ. See attached Osborn Engineering quote.	N/A	N/A
Intermod Study at Interim Site	\$500.00	\$500.00	See attached InSite Tower LLC quote for required study. Shared cost with WCWJ.	N/A	N/A
Additional Field Engineering Service, 45 Days	\$90,000.00	\$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
NEPA Section 106 environmental review, if needed	\$6,310.00	\$6,000.00	Soil issues from GEO report	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
Geotechnical Report	\$2,035.00	\$2,035.00	Shared cost with WCWJ	N/A	N/A
Environmental Impact Study	\$2,420.00	\$2,420.00	Shared cost with WCWJ	N/A	N/A
Topographic Survey	\$870.00	\$870.00	Shared cost with WCWJ	N/A	N/A

Other Engineering	\$97,500.00	\$97,500.00	Fewer Project	\$1,250.00	N/A
Services			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.		
Sub-total	\$559,135.00	\$533,875.00	N/A	\$12,922.15	N/A
Total for all systems	\$8,623,878.88	\$6,149,799.33	N/A	\$962,646.98	N/A

### Components

Actual Information Description	File Name
Attorney Fees - Negotiation of lease and other matters for shared locations	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.
Prepare request for Special Temporary Authorization	Information not provided.

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Project management of the transition	Component Description:	Inv: WJXT Project Management UL20180227 50% to WJXT 50% to WCWJ
	Amount:	\$2,257.50
	Component Description:	Inv 947-31 WJXT PM 387 2017 Q4 UL20180531jgv2
	Amount:	\$300.00
	Component Description:	Inv 947-30 WJXT PM 387 2017 Q4 UL20180621jgv1
	Amount:	\$300.00
	Component Description:	KGA inv #947-107 Form 387 2018 Q3 UL20181109jgv1
	Amount:	\$300.00
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.	

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Osborn Engineering Main Transmitter Facility	Information not provided.	
Other Legal Services	Component Description:	Covington inv #60780135 Various
	Amount:	Legal UL20181019jgv1 \$762.97
	Component Description:	Covington inv #60793199 Various Legal
	Amount:	UL20181023jgv1 \$149.47
	Component Description:	Covington inv #60816783 Various Legal
	Amount:	UL20181030jgv1 \$192.60
	Component Description:	Covington inv #60780136 Various Legal
	Amount:	UL20181022jgv1 \$247.50
	Component Description:	Covington inv #60790156 Various Legal
	Amount:	UL20181023jgv1 \$62.10

	Component Description:	Covington inv #60812706 Various Legal UL20181024jgv1
	Amount:	\$378.10
	Component Description:	Covington inv #60774445 Various Legal
	Amount:	UL20181022jgv1 \$2,621.91
Osborn Engineering Examination of Interim Site	Information not provided.	
Intermod Study at Interim Site	Information not provided.	
Additional Field Engineering Service, 45 Days	Information not provided.	
RF Exposure Measurements		
Measurements	Component Description:	Inv: WJXT RF exposure study
	Amount:	UL20180227 \$4,400.00
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	Information not provided.	

NEPA Section 106 environmental review, if needed	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.	
Geotechnical Report	Information not provided.	
Environmental Impact Study	Information not provided.	
Topographic Survey	Information not provided.	
Other Engineering Services		
	Component Description:	KGA inv #947-76 Actual Cost Invs UL20181109jgv1
	Amount:	\$1,250.00

### **Cost Information**

### **Other Expenses**

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Co
Other Expenses	\$199,653.38	\$199,098.38		\$8,269.00	
STL System	\$43,762.88	\$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	\$2,000.00	\$2,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	\$10,000.00	\$10,000.00	N/A	N/A	N/A
Equipment Storage	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$25,000.00	\$25,000.00	N/A	N/A	N/A

Disposal Costs (for equipment and other waste, net of any salvage value)	\$25,000.00	\$25,000.00	N/A	\$1,123.50	N/A
Non-zoning permits	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Sales Tax	\$7,145.50	\$7,145.50	Sales Tax	\$7,145.50	N/A
Local Zoning	\$25,000.00	\$25,000.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	N/A	N/A
Sub-total	\$199,653.38	\$199,098.38	N/A	\$8,269.00	N/A
Total for all systems	\$8,623,878.88	\$6,149,799.33	N/A	\$962,646.98	N/A

### Components

Actual Information Description	File Name
STL System	Information not provided.
MVPD Notification of Channel Change	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
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)	Component Description:	WJXT R&S inv #9500083845 Dumpster UL20180807jgv1	
	Amount:	\$1,123.50	
Non-zoning permits	Information not provided.		
Sales Tax			
	Component Description:	WJXT R&S inv	
		#9500083892	
		Interim Electrical	
		sales tax	
		UL20180807jgv1	
	Amount:	\$7,145.50	
Local Zoning	Information not provided.		
FCC Filing Fees - Special Temporary Authorization request	Information not provided.		
DTV Medical Facility Notification	Information not provided.		

## Cost Information

### **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$8,623,878.88	\$6,149,799.33	\$962,646.98

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

Section Question Response

### Submission of Estimated Expenses Statements

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.

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

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

8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Jeffrey C Gehman Engineering Associate

11/09/2018

Section Question Response

# Submission of Actual Cost Documentation Statements

WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISIONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).

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

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

- 8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
- 9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Jeffrey C Gehman Engineering Associate

11/09/2018

#### **Attachments**