



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **67792** | Service: **DTV** | Call **WAQP** | Channel: **36 (UHF)** |
ID: | Sign:
File **0000028021**
Number:
FRN: **0005077524** | Date **01/09**
Submitted: **/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
TCT OF MICHIGAN, INC.	Michael Daly PO Box 1010 MARION, IL 62959 United States	+1 (618) 997-4700	mjd@tct.tv	Not-for-Profit

Reimbursement Contact Information

Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
The Preparer is same as the reimbursement contact.			

Broadcaster Information and Transition Plan

Question	Response
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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.	No
Briefly describe transition plan	WAQP has transition from ch. 48 to ch. 36 service at its existing transmission location. WAQP replaced its main and back up transmitters, as well as antenna and trans line. WAQP is presently operating on channel 36 facilities.

Transmitters

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

Auxiliary Transmitter

Add Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Back up to main txmtr
	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	Visionary
	Year	2003
	Type	Inductive Output Tube
	IOT Power Type	Single
	Power Capacity	30 kW

**Auxiliary
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	ULXTE-40
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	25.3 kW
	Justification for New Transmitter	This transmitter is no longer manufactured or supported (Axcera is no longer in business) and its components are not returnable for use on WAQP's repack channel, so quotes for an appropriately sized solid state transmitter and upgrade have been attached.

**Auxiliary
Transmitter**

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
	Description	WAQ will require the assistance of a licensed electrical contractor to disconnect and reconnect existing transmitter electrical service to the repack transmitter.
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A

Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

**Auxiliary
Transmitter**

Other Transmitter Cost Not Listed

Name	Description
Transmitter removal	WAQP's existing IOT transmitter(s) will require complete removal and disposal. WAQP estimate of deconstruction and disposal costs attached.

**Primary
Transmitter**

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	Sigma
	Year	2006
	Type	Inductive Output Tube
	IOT Power Type	Single
	Power Capacity	30 kW

**Primary
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	ULXTE-40
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	25.3 kW
	Justification for New Transmitter	Existing single IOT transmitter is no longer produced or supported by its manufacturer (Harris /Gates Air) and it is not able to be retuned to repack channel. Quotations attached are for an equivalent power level solid state transmitter and upgrade.

**Primary
Transmitter**

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
	Description	WAQP will require the assistance of a licensed electrical contractor to disconnect and reconnect existing transmitter electrical service to the repack transmitter.
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A

Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

**Primary
Transmitter**

Other Transmitter Cost Not Listed

Name	Description
Transmitter removal	WAQP's existing IOT transmitter(s) will require physical removal and disposal to accommodate construction of repack transmitters). WAQP estimate of deconstruction and disposal costs attached.

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 Manufacturer and Type	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)	851.0 kW

Manufacturer	
Model	ATW28H3- HTCU-49H
Year	2006

Primary
Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	673.0 kW
	Manufacturer	

Model	ATW28H3-ETC1-36H
Year	2019
Justification for New Antenna	WAQP's existing channel 48 /49 antenna is channel specific and not compatible with the station's repack channel.

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	
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
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**Primary
Antenna**

Other Antenna Cost Not Listed

Information not provided.

**Interim
Antenna**

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	250.0 kW
	Manufacturer	
	Model	TFU 8B8-R
	Year	2018

	Justification for New Antenna	Required to maintain on air station signal continuity during main antenna replacement operations.
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**Interim
Antenna**

Other Antenna Costs

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	No

**Interim
Antenna**

Other Antenna Cost Not Listed

Information not provided.

Transmission Line

Section	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Primary
Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1150 feet per run

Primary **New Transmission Line**
Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	19 3/4 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1150 feet per run
	Justification for New Transmission Line	The existing line segment length is not compatible with channel 36.

Primary **Other Transmission Line Expenses Not Listed**
Transmission Line

Information not provided.

Interim
Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Flexible Air
	Diameter	3 inches
	Segment Length	N/A
	Other Segment Length	
	Number of parallel runs	1
	Length	1000 feet per run
	Justification for New Transmission Line	Required for interim antenna installation

Interim
Transmission Line

Other Transmission Line Expenses Not Listed

Information not provided.

Tower Equipment And Rigging Costs

Section	Question	Response
Tower Equipment or Rigging Costs Changes	Do you have tower equipment or rigging costs changes?	Yes

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Move Equipment
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	Candelabra
	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?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1002081
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	43° 13' 18.0" N-
	Longitude (NAD83)	084° 03' 14.0" W-
	Overall Structure Height	988.83 feet
	Support Structure Height	945.85 feet
	Ground Elevation Above Mean Sea Level (AMSL)	609.90 feet

	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	TRI STATE CHRISTIAN TV
	Date Constructed	03/01/1985

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Name	Description
Tower Inspection - Tower Mapping	Tower mapping required for equipment movement

**Outside
Professional Services Costs**

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	595
	Explanation	WAQP does not have adequate qualified internal staff to manage the construction planning, scheduling, coordination and inspection tasks required to complete this project in a timely and safe manner.
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	No
	Quantity	N/A

	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	No
	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	No
	Additional Field Engineering Service	No
	Number of Days	N/A

	Justification	N/A
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Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Construction management expense	Outside construction management fee

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	No
	Non-zoning permits	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	Yes
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?	No
	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
Antenna system unloading	Rigging fee for unloading antenna system upon delivery

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
Primary Transmitter ULXTE-40	\$1,439,490.79	\$1,197,349.95		\$725,066.65	
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	\$947,000.00	\$725,066.65	Please see Estimated Cost Justification WAQP-110-1st Primary Transmitter - UHF - Liquid Cooled Solid State Transmitter 25.3 kW v0	\$725,066.65	N/A
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	\$460,940.79	\$460,940.79	***System Notice: Estimate adjusted and locked because line has been superseded. ***Please see quote Q-59787 - this is for upgraded equipment. Like-for-like documentation called out on quote Q-78038	\$0.00	N/A
Transmitter removal	\$3,000.00	\$3,000.00	N/A	\$0.00	N/A

Other Electrical Service: WAQP will require the assistance of a licensed electrical contractor to disconnect and reconnect existing transmitter electrical service to the repack transmitter.	\$3,000.00	\$3,000.00	N/A	\$0.00	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$5,342.51	Please see transformer documentation called out on quote Q- 78038.	\$0.00	N/A
Auxiliary Transmitter ULXTE-40	\$1,403,841.62	\$1,089,986.38		\$652,457.88	
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	\$947,000.00	\$652,457.88	Per GatesAir Quote 78253	\$652,457.88	x

UHF - Liquid Cooled Solid State Transmitter 31.7 kW	\$425,291.62	\$425,291.62	***System Notice: Estimate adjusted and locked because line has been superseded. ***Please see quote Q- 59787 - this is for upgraded equipment. Like-for-like documentation called out on quote Q- 78253	\$0.00	N/A
Transmitter removal	\$3,000.00	\$3,000.00	N/A	\$0.00	N/A
Other Electrical Service: WAQ will require the assistance of a licensed electrical contractor to disconnect and reconnect existing transmitter electrical service to the repack transmitter.	\$3,000.00	\$3,000.00	N/A	N/A	N/A

Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$6,236.88	Please see quote Q- 59787 - this is for upgraded equipment. Like-for-like documentation called out on quote Q-78253	\$0.00	N/A
Sub-total	\$2,843,332.41	\$2,287,336.33	N/A	\$1,377,524.53	N/A
Total for all systems	\$4,527,090.41	\$3,742,251.50	N/A	\$1,981,444.10	N/A

Components

Actual Information	
Description	File Name
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	Component Description: Transmitter Amount: \$181,415.07
	Component Description: Transmitter Amount: \$79,149.13
	Component Description: Transmitter Amount: \$237,576.38
	Component Description: Transmitter Amount: \$226,926.07

<p>UHF - Liquid Cooled Solid State Transmitter 31.7 kW</p>	<table> <tr> <td data-bbox="713 100 1098 324">Component Description:</td><td data-bbox="1098 100 1428 324">Invoice has been moved as the category has been superseded.</td></tr> <tr> <td data-bbox="713 324 1098 436">Amount:</td><td data-bbox="1098 324 1428 436">N/A</td></tr> <tr> <td data-bbox="713 436 1098 660">Component Description:</td><td data-bbox="1098 436 1428 660">Invoice has been moved as the category has been superseded.</td></tr> <tr> <td data-bbox="713 660 1098 725">Amount:</td><td data-bbox="1098 660 1428 725">N/A</td></tr> </table>	Component Description:	Invoice has been moved as the category has been superseded.	Amount:	N/A	Component Description:	Invoice has been moved as the category has been superseded.	Amount:	N/A
Component Description:	Invoice has been moved as the category has been superseded.								
Amount:	N/A								
Component Description:	Invoice has been moved as the category has been superseded.								
Amount:	N/A								
<p>Transmitter removal</p>	<p>Information not provided.</p>								
<p>Other Electrical Service: WAQP will require the assistance of a licensed electrical contractor to disconnect and reconnect existing transmitter electrical service to the repack transmitter.</p>	<p>Information not provided.</p>								
<p>Transformer 3 phase/480v - 150 KVA</p>	<table> <tr> <td data-bbox="713 1153 1098 1467">Component Description:</td><td data-bbox="1098 1153 1428 1467">WAQP-110-1st Primary Transmitter - Transformer 3 phase/480v - 150 KVA</td></tr> <tr> <td data-bbox="713 1467 1098 1579">Amount:</td><td data-bbox="1098 1467 1428 1579">\$1,780.83</td></tr> <tr> <td data-bbox="713 1579 1098 1848">Component Description:</td><td data-bbox="1098 1579 1428 1848">WAQP-110-1st Primary Transmitter - Transformer 3 phase/480v - 150 KVA</td></tr> <tr> <td data-bbox="713 1848 1098 1937">Amount:</td><td data-bbox="1098 1848 1428 1937">\$1,780.83</td></tr> </table>	Component Description:	WAQP-110-1st Primary Transmitter - Transformer 3 phase/480v - 150 KVA	Amount:	\$1,780.83	Component Description:	WAQP-110-1st Primary Transmitter - Transformer 3 phase/480v - 150 KVA	Amount:	\$1,780.83
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Amount:	\$1,780.83								

UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	<table> <tr> <td>Component Description:</td><td>Aux Transmitter</td></tr> <tr> <td>Amount:</td><td>\$159,959.18</td></tr> <tr> <td>Component Description:</td><td>Aux Transmitter</td></tr> <tr> <td>Amount:</td><td>\$215,374.56</td></tr> <tr> <td>Component Description:</td><td>Aux Transmitter</td></tr> <tr> <td>Amount:</td><td>\$213,478.72</td></tr> <tr> <td>Component Description:</td><td>Transmitter</td></tr> <tr> <td>Amount:</td><td>\$63,645.42</td></tr> </table>	Component Description:	Aux Transmitter	Amount:	\$159,959.18	Component Description:	Aux Transmitter	Amount:	\$215,374.56	Component Description:	Aux Transmitter	Amount:	\$213,478.72	Component Description:	Transmitter	Amount:	\$63,645.42
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Component Description:	Invoice has been moved as the category has been superseded.																
Amount:	N/A																
Transmitter removal	Information not provided.																
Other Electrical Service: WAQ will require the assistance of a licensed electrical contractor to disconnect and reconnect existing transmitter electrical service to the repack transmitter.	Information not provided.																

Transformer 3 phase/480v - 150 KVA		
	Component Description:	WAQP-150-1st Auxiliary Transmitter - Transformer 3 phase/480v - 150 KVA
	Amount:	\$1,780.83
	Component Description:	WAQP-150-1st Auxiliary Transmitter - Transformer 3 phase/480v - 150 KVA
	Amount:	\$1,780.83

Cost Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TFU 8B8-R	\$189,500.00	\$51,325.00		\$0.00	
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	\$189,500.00	\$51,325.00	N/A	\$0.00	N/A
Primary Antenna ATW28H3-ETC1-36H	\$296,230.00	\$453,360.95		\$229,616.60	
Sweep test of existing antenna	\$6,730.00	\$13,900.00	see Estimated Cost Justification WAQP-210-Primary Antenna - Sweep Test v0	\$13,900.00	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$439,460.95	Please see the attached quote from DTVPros #JEHQ1299-08	\$215,716.60	N/A

Sub-total	\$485,730.00	\$504,685.95	N/A	\$229,616.60	N/A
Total for all systems	\$4,527,090.41	\$3,742,251.50	N/A	\$1,981,444.10	N/A

Components

Actual Information	
Description	File Name
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	Information not provided.
Sweep test of existing antenna	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>WAQP-210-Primary Antenna - Sweep Test-</div> <div>\$3,540.00</div> </div> <div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>Sweep Test</div> <div>\$3,540.00</div> </div> <div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>WAQP-210-Primary Antenna - Sweep Test</div> <div>\$3,280.00</div> </div> <div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>WAQP-210-Primary Antenna - Sweep Test</div> <div>\$3,540.00</div> </div> <div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>WAQP-210-Primary Antenna - Sweep Test</div> <div>\$3,540.00</div> </div>

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized		
	Component Description:	UHF-High Power Top Mount (200-1000KW)
	Amount:	\$62,935.64
	Component Description:	Primary Antenna
	Amount:	\$62,935.64
	Component Description:	UHF-HIGH POWER TOP MOUNT (200-1000KW)
	Amount:	\$26,909.68
	Component Description:	UHF-High Power Top Mount (200-1000KW) ATW28H3-ETC1-36H Top Mounted Elliptically Polarized UHF TRASAR Television Transmitting Antenna
	Amount:	\$62,935.64
	Component Description:	Please deny this invoice.
	Amount:	N/A

Cost
Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$59,000.00	\$35,881.62		\$0.00	
Flexible Air Transmission Line - dielectric, 3"	\$59,000.00	\$35,881.62	N/A	\$0.00	N/A
Primary Transmission Line	\$232,300.00	\$175,507.95		\$0.00	
Rigid Transmission Line - copper, 6 1/8"	\$232,300.00	\$175,507.95	N/A	\$0.00	N/A
Sub-total	\$291,300.00	\$211,389.57	N/A	\$0.00	N/A
Total for all systems	\$4,527,090.41	\$3,742,251.50	N/A	\$1,981,444.10	N/A

Components

Information not provided.

Cost Information

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	\$655,568.00	\$528,564.65		\$322,097.97	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$293,996.65	Estimated Cost Justification WAQP-410- Existing Primary Tower - Tower Rigging, Complex Tower v0	\$293,996.64	N/A
Tower Inspection - Tower Mapping	<i>\$4,000.00</i>	\$4,000.00	Please see the attached invoice from Thumb Radio Inc # 3465	\$3,200.00	N/A
Tower Helicopter Lift	<i>\$230,568.00</i>	\$230,568.00	Please see the attached PO # S-17967 from T.C.T of Michigan, Inc.	\$24,901.33	N/A
Sub-total	\$655,568.00	\$528,564.65	N/A	\$322,097.97	N/A
Total for all systems	\$4,527,090.41	\$3,742,251.50	N/A	\$1,981,444.10	N/A

Components

Actual Information

Description

File Name

Complex Tower (includes, for example, those with candelabras and/or stacked antennas)

Component Description:

Revised Analysis
and Modification
Drawing

Amount:

\$7,500.00

Component Description:

Modification
Drawings

Amount:

\$7,500.00

Component Description:

40% prior to
mobilization
Antenna
Installation

Amount:

\$82,266.66

Component Description:

Antenna
Installation

Amount:

\$20,566.66

Component Description:

Custom Stub
Tower Section &
Installation

Amount:

\$32,590.00

Component Description:

Drawings
Purchased from
Pirod

Amount:

\$8,150.00

Component Description:

Custom Stub
Tower Section &
Installation

Amount:

\$32,590.00

Component Description:

Antenna
Installation

Amount:

\$102,833.32

Tower Inspection - Tower Mapping	<div> <div>Component Description:</div> <div>Tower Mapping, Relamp Tower</div> <div>Amount:</div> <div>\$3,200.00</div> </div>
Tower Helicopter Lift	<div> <div>Component Description:</div> <div>WAQP-Existing Primary Tower-Helicopter Lift</div> <div>Amount:</div> <div>\$2,490.13</div> </div> <div> <div>Component Description:</div> <div>WAQP-410-Existing Primary Tower - Helicopter Lift</div> <div>Amount:</div> <div>\$9,960.53</div> </div> <div> <div>Component Description:</div> <div>WAQP Existing Primary Tower-Helicopter Lift</div> <div>Amount:</div> <div>\$12,450.67</div> </div>

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$223,080.00	\$190,010.00		\$52,205.00	
Construction management expense	<i>\$12,000.00</i>	\$12,000.00	N/A	N/A	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$35,000.00	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
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,585.00	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 and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	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
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	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
Project management of the transition	\$94,010.00	\$111,675.00	Please see the attached Widely quote	\$52,205.00	N/A
Sub-total	\$223,080.00	\$190,010.00	N/A	\$52,205.00	N/A
Total for all systems	\$4,527,090.41	\$3,742,251.50	N/A	\$1,981,444.10	N/A

Components

Actual Information	
Description	File Name
Construction management expense	Information not provided.
Comprehensive coverage verification via field study, if needed	Information not provided.
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.
ASR modification (prepare FCC Form 854)	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.
Prepare and or review reimbursement form	Information not provided.

Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Perform engineering study for new channel assignment and antenna development	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.	
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.	
Project management of the transition	Component Description: Amount:	Project Management \$2,917.45
	Component Description: Amount:	Project Management \$3,885.40
	Component Description: Amount:	Project Management \$1,206.55
	Component Description: Amount:	Project Management \$4,727.50
	Component Description: Amount:	Project Management \$3,789.75

Component Description:	Project Management
Amount:	\$6,575.90

Component Description:	Project Management
Amount:	\$3,435.20

Component Description:	Project Management
Amount:	\$1,915.75

Component Description:	Project Management
Amount:	\$9,975.45

Component Description:	Project Management
Amount:	\$1,583.10

Component Description:	Project Management
Amount:	\$1,415.75

Component Description:	Project Management
Amount:	\$1,120.95

Component Description:	Project Management
Amount:	\$1,279.85

Component Description:	Project Management
Amount:	\$2,266.80

Component Description:	Project Management
Amount:	\$40.95

Component Description:	Project Management
Amount:	\$4,510.45

Component Description:	Project Management
Amount:	\$1,558.20

Cost
Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$28,080.00	\$20,265.00		\$0.00	
Antenna system unloading	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
MVPD Notification of Channel Change	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$3,750.00	N/A	\$0.00	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
Non-zoning permits	<i>\$1,000.00</i>	\$1,000.00	N/A	N/A	N/A

Disposal Costs (for equipment and other waste, net of any salvage value)	\$7,000.00	\$7,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$2,000.00	\$2,000.00	N/A	N/A	N/A
Sub-total	\$28,080.00	\$20,265.00	N/A	\$0.00	N/A
Total for all systems	\$4,527,090.41	\$3,742,251.50	N/A	\$1,981,444.10	N/A

Components

Information not provided.

Cost Information	Grand Total		
		Predetermined Cost Estimate	Estimated Cost
			Actual Cost
	Total for all systems	\$4,527,090.41	\$3,742,251.50
			\$1,981,444.10

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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> 1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount. 	

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

<p>8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Michael Jerome Daly <i>Secretary</i></p> <p>01/09/2020</p>

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR 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).	
		<ol style="list-style-type: none"> 1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 	

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

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Michael Jerome Daly <i>Secretary</i></p> <p>01/09/2020</p>

Certification	Section	Question	Response
	Submission of Final Allocation or Accounting Information Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> 1. The Authorized Person signing below certifies 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 acknowledges that all certifications and attached documentation are considered material representations. 2. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount. 	

3. The above-named entity certifies that all costs identified as "actual costs" herein accurately represent the costs actually paid by the above-named entity, including any discounts, refunds, or rebates.
4. 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.
5. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
6. 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.

**Michae
Jerome
Daly**
Secretary

01/09/2020

Attachments