



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **72123** | Service: **DTV** | Call **WWJ-TV** | Channel: **21 (UHF)** |
ID: | Sign:
File **0000026787**
Number:
FRN: **0003482189** | Date **03/06**
Submitted: **/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
CBS BROADCASTING INC. Doing Business As: CBS BROADCASTING INC.	Daniel G. Ryson 1725 DeSales St. NW Suite 501 Washington, DC 20036 United States	+1 (202) 457-4074	dryson@cbs.com	Corporation

Reimbursement Contact Information

Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
Daniel G. Ryson <i>Director of Spectrum Management CBS</i>	Daniel G. Ryson 1725 DeSales Street NW Suite 501 Washington, DC 20036 United States	+1 (202) 457-4075	dryson@cbs.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	New channel 21 antenna and 6-1/8" line to be installed on the south arm of candelabra. Tower owner providing interim broad band antenna system to be leased.

Transmitters

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

**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	SigmaCD-2200P2
	Year	1999
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	46 kW

**Primary
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	ULXTED-60
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	38.4 kW
	Justification for New Transmitter	GatesAir Won't Re-tune (See Exhibit 1). IOT replacement is more expensive (See Exhibit 2A). Proposed replacement is less expensive (Exhibit 3B). See also May 2018 Statement.

**Primary
Transmitter**

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No

	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
	Description	Various Main Site Electrical Work (See Exhibit 4).
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
GatesAir Site Survey	Advanced Site Survey Services. Includes as-built and future layout drawings. See Exhibit 3B Item F.
State Sales Tax	Michigan Sales Tax of 6% on all products and services shown on Exhibit 3B.

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?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Top
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	425.0 kW

Manufacturer	
Model	TFU-18GTH
Year	1998

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?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	264.0 kW
	Manufacturer	

	Model	TFU-17ETT /VP-R O4
	Year	2019
	Justification for New Antenna	Existing antenna cannot be retuned.

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

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	Leased
	Owner	American Tower Corporation
	Is antenna shared?	Yes
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Broadband Slot
	Number of Stations Supported	3
	Number of Panels/Bays	8
	Lower Limit	407.00 MHz
	Upper Limit	698.00 MHz
	Design power capacity in use	0.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	264.0 kW
	Manufacturer	
	Model	TFU-24 WB /VP-C160

	Year	2018
	Justification for New Antenna	Required for continued operation while main WWJ-TV antenna is replaced.

Interim Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	3
	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?	B
	Feed Line Size	7 3/16 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Enter a list of RF channel numbers.

RF Channel Number
44
21
43

Interim Antenna

Other Antenna Cost Not Listed

Name	Description
Interim Antenna Rigging	Cost is for the labor to remove the old side-mount analog channel 62 antenna and waveguide, install the new transmission line, and install interim antenna.
Interim Tower Rental	ATC site and tower rental Required for station to minimize on-air disruption, maintain coverage, and complete the tower work in a safe, timely manner. See Exhibit 7A.
Ice Shield	Ice Shield for side-mount interim antenna. Omitted from initial quote. Please see Exhibit 14.
Install Combiner	Cost is for installing and proofing combiner.
Conduit	This cost includes 200 L/F of 2" conduit and conductor to adequately supply the HVAC unit.
Combiner Cage	24X20 fenced combiner cage area materials and installation. See Exhibit 7A
New Electrical Panel	New HVAC electrical sub-panel for new AC unit required for the repack combiner area fed off of existing 480/208 main panel. This equipment is required to provide the existing power to the HVAC unit.
Nitrogen Generator	Nitrogen Generator Upgrade. See Exhibit 7A.

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
Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1150 feet per run
	Justification for New Transmission Line	Existing line segment length cannot be used on new channel.

Primary
Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Additional Elbow	Additional Elbow
RF Accessories	Coaxial Switch, Switch Controller, Dummy Load, etc. See Exhibit 9, Item C.
TX Line Mounting Hardware	Transmission Line Tower Mounting Hardware for Primary Line.

Horiz and Ceiling Anchors

Horizontal and Ceiling Mounting Hardware
for Primary Line.

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	Rigid
	Diameter	7 3/16 inches
	Segment Length	Broadband
	Other Segment Length	
	Number of parallel runs	1
	Length	995 feet per run
	Justification for New Transmission Line	Material costs for 995 foot 7-3/16" Broadband transmission line, three (3) elbows and a nitrogen generator for pressurization control on the line.

Interim Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Interim Coax Switch	Coaxial switch between interim transmitter and interim antenna combiner. Permits transmitter testing. (See Exhibit 3B, Items D and G.)
TX Line to Interim Combiner	Horizontal run of transmission line between transmitter and interim combiner. (See Exhibit 7A, last Page. Please disregard identical Items shown on Exhibit 3A, Items I and K.)

**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	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	Candelabra
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	No
	Is tower documented for structural analysis?	Unknown
	Is tower compliant with Rev G?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1003429
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	42° 26' 52.5" N-
	Longitude (NAD83)	083° 10' 23.1" W-
	Overall Structure Height	1086.93 feet
	Support Structure Height	1012.13 feet
	Ground Elevation Above Mean Sea Level (AMSL)	662.07 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	American Tower, LLC
Date Constructed	06/11/1999

**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
6592	WKQI	FM
6056	WRCJ-FM	FM
6594	WNIC	FM
74211	WMYD	DTV
59952	WLLZ	FM
59592	WJLB	FM
16817	WTVS	DTV

**Primary
Tower**

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Minor Reinforcements needed

**Primary
Tower**

Tower Rigging Costs

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

**Primary
Tower**

Other Tower Expenses Not Listed

Name	Description
Permit Drawing Packages	Construction drawing packages for Tower and Ground Permits.
Structural Engineering	Rigorous Structural analysis to assess the structural capacity and modifications needed to accommodate the repacked equipment (see Exhibit 6).
Tower Project Management	Project management fee for both the primary and interim antenna. See Exhibits 6B, 1-A-1 (\$9,480) and 7B, 3-D-1 (\$5,000). Scheduling and management of the timelines and schedules occurring during the repack.

**Outside
Professional**

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	250
	Explanation	Company lacks internal resources.
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	Yes
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	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	No
	For Auxiliary Facility	N/A
	For Main Facility	N/A
	Prepare and file Form FCC License to Cover Application	No
	For Auxiliary Facility	N/A

	For Main Facility	N/A
	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	Yes
	Prepare or Review FCC Form 399 for Reimbursement	No
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	No
	RF exposure measurements	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Site Coordination Meeting	Meeting to coordinate efforts among broadcasters, tower owner, and tower contractor.
RF System Test - Interim	Radiofrequency System Test of Interim Antenna System

Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
Facility Expenses	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
Permit and Filing Costs	Local Zoning	Yes
	Non-zoning permits	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	Yes
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	No
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?	No
	Does this relocation require MVPD Notification of a Channel Change?	Yes

**Other
Expenses**

Other Expenses Not Listed

Name	Description
Deinstall Old Transmitter	Deinstallation of present primary transmitter. (See Exhibit 3A Item G.)

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 ULXTED-60	\$1,623,643.80	\$1,522,592.66		\$1,427,329.73	
Other Electrical Service: Various Main Site Electrical Work (See Exhibit 4).	<i>\$53,719.00</i>	\$53,719.00	Various primary transmitter site electrical work. (See Exhibit 4)	\$53,719.00	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$1,371,948.86	Please see May 2018 Statement and Exhibit 3B, Items A, B, C, and H.	\$1,284,494.06	N/A
State Sales Tax	<i>\$87,239.00</i>	\$87,239.00	6% Michigan State Sales Tax on products and services shown on Exhibit 3B.	\$79,430.87	N/A

GatesAir Site Survey	\$9,685.80	\$9,685.80	GatesAir Advanced Site Survey. Provides as-built and proposed facility layout drawings. (See Exhibit 3B, Item F.)	\$9,685.80	N/A
Sub-total	\$1,623,643.80	\$1,522,592.66	N/A	\$1,427,329.73	N/A
Total for all systems	\$3,830,098.07	\$3,020,977.86	N/A	\$2,686,536.32	N/A

Components

Actual Information	
Description	File Name
Other Electrical Service: Various Main Site Electrical Work (See Exhibit 4).	Component Description:
	Main Transmitter Electrical Work Final Payment. Please see Exhibit 4.
	Amount:
	\$35,991.73
	Component Description:
	Main Transmitter Electrical Work Down Payment. Please see Exhibit 4.
	Amount:
	\$17,727.27

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	<div> Component Description: One-third progress payment of items A, B, C, and H from GatesAir quote Q-76546 (please see Exhibit 3B). </div> <div> Amount: \$457,316.29 </div>
	<div> Component Description: Final Payment for Exhibit 3B Items A, B, C. </div> <div> Amount: \$403,118.05 </div>
	<div> Component Description: 1/3 Down payment for ULXTE-60 Main Transmitter. </div> <div> Amount: \$424,059.72 </div>
State Sales Tax	<div> Component Description: Michigan Sales Tax for items shipped by October, 2019. Please see Exhibit 17. </div> <div> Amount: \$79,430.87 </div>

GatesAir Site Survey

Component Description:

One-third
progress payment
of Site Survey.
See Exhibit 3B
Item F.

Amount:

\$3,228.60

Component Description:

Final Payment for
Site Survey.
Please see
Exhibit 3B Item F.

Amount:

\$6,457.20

**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-24 WB /VP-C160	\$329,146.80	\$311,914.46		\$310,892.13	
Interim Antenna Rigging	<i>\$70,066.66</i>	\$70,066.66	Cost is for the labor to remove the old side-mount analog channel 62 antenna and waveguide and install new line and interim antenna. Cost came in higher than estimated. Includes weather delays. Please see Exhibit 14.	\$70,066.66	Antenna installation came in higher than estimated. Includes weather delays. Please see Exhibit 14.
Nitrogen Generator	<i>\$5,000.00</i>	\$5,000.00	Please see Exhibit 7B	\$3,977.67	N/A
New Electrical Panel	<i>\$0.00</i>	\$0.00	New electrical sub-panel found unnecessary. Please see Exhibit 14.	\$0.00	N/A

Conduit	\$0.00	\$0.00	Conduit found unnecessary. Please see Exhibit 14.	\$0.00	N/A
Install Combiner	\$15,962.33	\$15,962.33	Combiner installation came in higher than estimated. Please see Exhibit 14.	\$15,962.33	Combiner installation came in higher than estimated. Please see Exhibit 14.
Ice Shield	\$744.81	\$744.81	Ice shield for side-mounted interim antenna. Omitted from original estimate. Please see Exhibit 14.	\$744.81	N/A
Sweep test of existing antenna	\$6,730.00	\$3,333.33	The original estimate was rounded to the nearest dollar. This was corrected in the final billing, which was rounded to the nearest cent. Please see Exhibit 14.	\$3,333.33	The original estimate was rounded to the nearest dollar. This was corrected in the final billing, which was rounded to the nearest cent. Please see Exhibit 14.

UHF - High Power, Side Mount, basic slot antenna, 8 bay,, 264 kW input, directional,, elliptically or circularly polarized	\$63,637.33	\$63,637.33	Pro-rata share (see Exhibit 7B). Updated cost includes taxes and shipping. Please see Exhibit 14.	\$63,637.33	Updated cost includes taxes and shipping. Please see Exhibit 14.
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	\$16,850.00	\$5,260.00	Updated cost includes tax and shipping. Please see Exhibit 14.	\$5,260.00	Updated cost includes tax and shipping. Please see Exhibit 14.
New combiner, cost per channel (without antenna)	\$84,200.00	\$81,954.33	Updated cost includes taxes and shipping. Please see Exhibit 14.	\$81,954.33	Updated cost includes taxes and shipping. Please see Exhibit 14.
Combiner Cage	\$8,355.67	\$8,355.67	24x20' fenced combiner cage area materials and installation with 10' privacy slats. See Exhibit 7B and Exhibit 14.	\$8,355.67	Cost to install fencing and PVC slats around combiner to section of from CBS Suite. Please see Exhibit 14.

Interim Tower Rental	\$57,600.00	\$57,600.00	Rental fee for tower and ground space to support interim antenna, combiner, and interim transmitter. See Exhibit 7B.	\$57,600.00	N/A
Primary Antenna TFU-17ETT /VP-R 04	\$296,230.00	\$168,280.00		\$151,452.00	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	Please see Exhibit 5A	\$5,760.00	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$161,880.00	Exhibit 5A Items 1 and 2, minus \$16,425 cost of V-Pol.	\$145,692.00	N/A
Sub-total	\$625,376.80	\$480,194.46	N/A	\$462,344.13	N/A
Total for all systems	\$3,830,098.07	\$3,020,977.86	N/A	\$2,686,536.32	N/A

Components

Actual Information
Description

File Name

Interim Antenna Rigging

Component Description:

Invoice is 25%
Down Payment for
\$438,330 ATC total
estimated cost,
main plus interim.
(See Exhibits 6C
and 7C). This cost
is 25% of Interim
Antenna
Installation, pro
rata share. (See
Exhibit 6C, 3-C-1.)

Amount:

\$13,750.00

Component Description:

Antenna
installation came in
higher than
estimated. Includes
weather delays.
Please see Exhibit
14.

Amount:

\$28,816.66

Component Description:

Invoice is 50%
Down Payment for
\$438,330 ATC total
estimated cost,
main plus interim.
(See Exhibits 6C
and 7C). This cost
is 50% of Interim
Antenna
Installation, pro
rata share. (See
Exhibit 6C, 3-C-1.)

Amount:

\$27,500.00

Nitrogen Generator	<div data-bbox="710 174 1372 324"> <p>Component Description: Nitrogen generator to pressurize interim line.</p> <p>Amount: \$227.67</p> </div> <div data-bbox="710 436 1372 907"> <p>Component Description: Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is for 25% of the Interim Nitrogen Generator. See Exhibit 6C, 3-D-1.</p> <p>Amount: \$1,250.00</p> </div> <div data-bbox="710 1019 1372 1489"> <p>Component Description: Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is for 50% of the Interim Nitrogen Generator. (See Exhibit 6C, 3-D-1.)</p> <p>Amount: \$2,500.00</p> </div>
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New Electrical Panel	<table> <tr> <td data-bbox="692 87 1091 367">Component Description:</td><td data-bbox="1091 87 1426 367">New Subpanels found unnecessary. Please see Exhibit 14.</td></tr> <tr> <td data-bbox="692 367 1091 479">Amount:</td><td data-bbox="1091 367 1426 479">(\$1,250.00)</td></tr> <tr> <td data-bbox="692 479 1091 994">Component Description:</td><td data-bbox="1091 479 1426 994">Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is for 25% of the Interim Site Electrical Sub Panels. (See Exhibit 6C, 3-C-6.)</td></tr> <tr> <td data-bbox="692 994 1091 1106">Amount:</td><td data-bbox="1091 994 1426 1106">\$416.67</td></tr> <tr> <td data-bbox="692 1106 1091 1695">Component Description:</td><td data-bbox="1091 1106 1426 1695">Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is for 50% of the Interim Site Electrical Sub Panels. (See Exhibit 6C, 3-C-6.)</td></tr> <tr> <td data-bbox="692 1599 1091 1695">Amount:</td><td data-bbox="1091 1599 1426 1695">\$833.33</td></tr> </table>	Component Description:	New Subpanels found unnecessary. Please see Exhibit 14.	Amount:	(\$1,250.00)	Component Description:	Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is for 25% of the Interim Site Electrical Sub Panels. (See Exhibit 6C, 3-C-6.)	Amount:	\$416.67	Component Description:	Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is for 50% of the Interim Site Electrical Sub Panels. (See Exhibit 6C, 3-C-6.)	Amount:	\$833.33
Component Description:	New Subpanels found unnecessary. Please see Exhibit 14.												
Amount:	(\$1,250.00)												
Component Description:	Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is for 25% of the Interim Site Electrical Sub Panels. (See Exhibit 6C, 3-C-6.)												
Amount:	\$416.67												
Component Description:	Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is for 50% of the Interim Site Electrical Sub Panels. (See Exhibit 6C, 3-C-6.)												
Amount:	\$833.33												

Conduit	<div data-bbox="710 174 1372 369"> <p>Component Description: Conduit found unnecessary. Please see Exhibit 14.</p> <p>Amount: (\$625.01)</p> </div> <div data-bbox="710 477 1372 947"> <p>Component Description: Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is for 50% of the Interim Conduit. (See Exhibit 6C, 3-C-1)</p> <p>Amount: \$416.67</p> </div> <div data-bbox="710 1055 1372 1525"> <p>Component Description: Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is for 25% of the Interim Conduit. (See Exhibit 6C, 3-C-1)</p> <p>Amount: \$208.34</p> </div>
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Install Combiner	<div data-bbox="708 174 1378 367"> <p>Component Description: Combiner installation came in higher than estimated. Please see Exhibit 14.</p> </div> <div data-bbox="708 376 1267 412"> <p>Amount: \$9,712.33</p> </div> <div data-bbox="708 515 1378 949"> <p>Component Description: Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 50% of Interim Combiner Installation, Exhibit 6C, 3-C-2.)</p> </div> <div data-bbox="708 954 1267 990"> <p>Amount: \$4,166.67</p> </div> <div data-bbox="708 1093 1378 1527"> <p>Component Description: Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 25% of Interim Combiner Installation, Exhibit 6C, 3-C-2.)</p> </div> <div data-bbox="708 1532 1267 1568"> <p>Amount: \$2,083.33</p> </div>
Ice Shield	<div data-bbox="708 1702 1362 1935"> <p>Component Description: Ice shield for side-mounted interim antenna. Omitted from original estimate. Please see Exhibit 14.</p> </div> <div data-bbox="708 1939 1243 1975"> <p>Amount: \$744.81</p> </div>

Sweep test of existing antenna

Component Description: RF system testing. Please see Exhibit 14.

Amount: \$833.34

Component Description: Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 25% of Antenna Line sweep test. (See Exhibit 6C, 3-C-2.)

Amount: \$833.33

Component Description: Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 50% of Antenna Line sweep test. (See Exhibit 6C, 3-C-2.)

Amount: \$1,666.66

<p>UHF - High Power, Side Mount, basic slot antenna, 8 bay,, 264 kW input, directional,, elliptically or circularly polarized</p>	<table> <tr> <td data-bbox="710 181 1013 208">Component Description:</td><td data-bbox="1150 181 1369 324">Updated cost includes taxes and shipping. Please see Exhibit 14.</td></tr> <tr> <td data-bbox="710 342 815 369">Amount:</td><td data-bbox="1150 342 1281 369">\$18,637.33</td></tr> </table>	Component Description:	Updated cost includes taxes and shipping. Please see Exhibit 14.	Amount:	\$18,637.33
Component Description:	Updated cost includes taxes and shipping. Please see Exhibit 14.				
Amount:	\$18,637.33				
	<table> <tr> <td data-bbox="710 479 1013 506">Component Description:</td><td data-bbox="1150 479 1377 945">Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 25% of the Interim Antenna, pro rata share. (See Exhibit 6C, 3-B.)</td></tr> <tr> <td data-bbox="710 960 815 987">Amount:</td><td data-bbox="1150 960 1281 987">\$15,000.00</td></tr> </table>	Component Description:	Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 25% of the Interim Antenna, pro rata share. (See Exhibit 6C, 3-B.)	Amount:	\$15,000.00
Component Description:	Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 25% of the Interim Antenna, pro rata share. (See Exhibit 6C, 3-B.)				
Amount:	\$15,000.00				
	<table> <tr> <td data-bbox="710 1097 1013 1124">Component Description:</td><td data-bbox="1150 1097 1377 1563">Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 50% of the Interim Antenna, pro rata share. (See Exhibit 6C, 3-B.)</td></tr> <tr> <td data-bbox="710 1579 815 1606">Amount:</td><td data-bbox="1150 1579 1281 1606">\$30,000.00</td></tr> </table>	Component Description:	Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 50% of the Interim Antenna, pro rata share. (See Exhibit 6C, 3-B.)	Amount:	\$30,000.00
Component Description:	Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 50% of the Interim Antenna, pro rata share. (See Exhibit 6C, 3-B.)				
Amount:	\$30,000.00				

Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	<div> Component Description: Updated cost includes tax and shipping. Please see Exhibit 14. </div> <div> Amount: \$2,760.00 </div>
	<div> Component Description: Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is for 25% of the Interim Antenna Elbow Complex. (See Exhibit 6C, 3- C-2.) </div> <div> Amount: \$833.33 </div>
	<div> Component Description: Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is for 50% of the Interim Antenna Elbow Complex. (See Exhibit 6C, 3- C-2.) </div> <div> Amount: \$1,666.67 </div>

New combiner, cost per channel (without antenna)	<div> Component Description: Updated cost includes taxes and shipping. Please see Exhibit 14. </div> <div> Amount: \$24,454.33 </div>
	<div> Component Description: Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 25% of the Interim Combiner. (See Exhibit 6C, 3-C-1.) </div> <div> Amount: \$19,166.67 </div>
	<div> Component Description: Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 50% of the Interim Combiner. (See Exhibit 6C, 3-C-1.) </div> <div> Amount: \$38,333.33 </div>

Combiner Cage

Component Description: Please see Exhibit 14.

Amount: \$4,605.67

Component Description: Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is for 50% of the Interim Combiner Cage. (See Exhibit 6C, 3-C-3.)

Amount: \$2,500.00

Component Description: Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is for 25% of the Interim Combiner Cage. (See Exhibit 6C, 3-C-3.)

Amount: \$1,250.00

Interim Tower Rental	<table> <tr> <td data-bbox="708 174 1013 208">Component Description:</td><td data-bbox="1150 174 1369 241">Please see Exhibit 14.</td></tr> <tr> <td data-bbox="708 257 815 291">Amount:</td><td data-bbox="1150 257 1281 291">\$14,400.00</td></tr> <tr> <td data-bbox="708 398 1013 432">Component Description:</td><td data-bbox="1150 398 1377 784">Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This amount is 25% of Interim Site Rent, Exhibit 6C 1-B-1.</td></tr> <tr> <td data-bbox="708 795 815 828">Amount:</td><td data-bbox="1150 795 1281 828">\$14,400.00</td></tr> <tr> <td data-bbox="708 936 1013 969">Component Description:</td><td data-bbox="1150 936 1377 1321">Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This amount is 50% of Interim Site Rent, Exhibit 6C 1-B-1.</td></tr> <tr> <td data-bbox="708 1332 815 1366">Amount:</td><td data-bbox="1150 1332 1281 1366">\$28,800.00</td></tr> </table>	Component Description:	Please see Exhibit 14.	Amount:	\$14,400.00	Component Description:	Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This amount is 25% of Interim Site Rent, Exhibit 6C 1-B-1.	Amount:	\$14,400.00	Component Description:	Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This amount is 50% of Interim Site Rent, Exhibit 6C 1-B-1.	Amount:	\$28,800.00
Component Description:	Please see Exhibit 14.												
Amount:	\$14,400.00												
Component Description:	Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This amount is 25% of Interim Site Rent, Exhibit 6C 1-B-1.												
Amount:	\$14,400.00												
Component Description:	Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This amount is 50% of Interim Site Rent, Exhibit 6C 1-B-1.												
Amount:	\$28,800.00												
Sweep test of existing antenna	<table> <tr> <td data-bbox="708 1507 1013 1541">Component Description:</td><td data-bbox="1150 1507 1369 1731">Progress payment for sweep measurements of antenna and line. Please see Exhibit 5A for quote.</td></tr> <tr> <td data-bbox="708 1747 815 1780">Amount:</td><td data-bbox="1150 1747 1265 1780">\$2,880.00</td></tr> <tr> <td data-bbox="708 1888 1013 1921">Component Description:</td><td data-bbox="1150 1888 1369 2000">Down payment for sweep test of antenna and line.</td></tr> <tr> <td data-bbox="708 2011 815 2045">Amount:</td><td data-bbox="1150 2011 1265 2045">\$2,880.00</td></tr> </table>	Component Description:	Progress payment for sweep measurements of antenna and line. Please see Exhibit 5A for quote.	Amount:	\$2,880.00	Component Description:	Down payment for sweep test of antenna and line.	Amount:	\$2,880.00				
Component Description:	Progress payment for sweep measurements of antenna and line. Please see Exhibit 5A for quote.												
Amount:	\$2,880.00												
Component Description:	Down payment for sweep test of antenna and line.												
Amount:	\$2,880.00												

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized		
	Component Description:	Down payment for primary antenna and elbow complex. Excludes vertical polarization. Please see Exhibit 31.
	Amount:	\$72,846.00
	Component Description:	Primary Antenna and Elbow Complex Down Payment. Please see Exhibit 5A for Quote. Excludes Vertical Polarization Upgrade.
	Amount:	\$72,846.00

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	\$416,728.90	\$180,002.57		\$180,002.57	
TX Line to Interim Combiner	<i>\$34,890.00</i>	\$34,890.00	Horizontal run of transmission line between transmitter and interim combiner. Includes Installation. (See Exhibit 7B.)	\$34,890.00	N/A
Interim Coax Switch	<i>\$50,503.90</i>	\$50,503.90	Coaxial switch between interim transmitter and combiner. Permits off-air testing of interim transmitter. Includes Installation. (See Exhibit 3B, Items D and G.)	\$50,503.90	N/A

Rigid Transmission Line - copper, 7 3 /16" broadband	\$331,335.00	\$94,608.67	Pro-rata Material costs for 995 foot 7-3/16" Broadband transmission line and three (3) elbows. Updated cost includes taxes and shipping for many cut pieces. Please see Exhibit 14.	\$94,608.67	Updated cost includes taxes and shipping for many cut pieces. Please see Exhibit 14.
Primary Transmission Line	\$350,344.21	\$269,399.81		\$191,119.33	
Horiz and Ceiling Anchors	\$1,287.64	\$1,287.64	Horizontal and Ceiling Mounting Hardware for Primary Line (please see Quote in Exhibit 35). Includes shipping (please see Exhibit 37).	\$1,287.64	N/A
Additional Elbow	\$2,139.84	\$2,139.84	Additional 6- inch elbow (Exhibit 32). Includes shipping (Exhibit 34).	\$2,139.84	N/A

TX Line Mounting Hardware	\$5,984.31	\$5,984.31	Primary Transmission Line Mounting Hardware. Please see Exhibit 24 for quotation. Includes sales tax and freight shown in Exhibit 25. Also includes additional hardware shown in Exhibit 26.	\$5,984.31	N/A
RF Accessories	\$74,132.42	\$74,132.42	Coaxial Switch, Switch Controller, Dummy Load, etc. See Exhibit 9, Item C.	N/A	N/A
Rigid Transmission Line - copper, 6 1/8" broadband	\$266,800.00	\$185,855.60	Required for new antenna (see Exhibit 5A).	\$181,707.54	N/A
Sub-total	\$767,073.11	\$449,402.38	N/A	\$371,121.90	N/A
Total for all systems	\$3,830,098.07	\$3,020,977.86	N/A	\$2,686,536.32	N/A

Components

Actual Information
Description

File Name

TX Line to Interim Combiner

Component Description: Increased form original scope. Please see Exhibit 14.

Amount: \$8,722.50

Component Description: Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 25% of materials and labor to connect Interim transmitter to combiner. (See Exhibit 6C, 1-B-1.)

Amount: \$8,722.50

Component Description: Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 50% of materials and labor to connect Interim transmitter to combiner. (See Exhibit 6C, 1-B-1.)

Amount: \$17,445.00

Interim Coax Switch	Component Description:	Final payment for Items D and G Exhibit 3B.
		Amount: \$33,669.27
	Component Description:	One-third progress payment of items D and G from GatesAir quote Q-76546 (please see Exhibit 3B).
		Amount: \$16,834.63

Rigid Transmission Line -
copper, 7 3/16" broadband

Component Description:

Updated cost
includes taxes and
shipping for many
cut pieces. Please
see Exhibit 14.

Amount:

\$36,401.17

Component Description:

Invoice is 50%
Down Payment for
\$438,330 ATC
total estimated
cost, main plus
interim. (See
Exhibits 6C and
7C). This cost is
50% of Interim
Transmission Line,
pro rata share.
(See Exhibit 6C, 3-
A.)

Amount:

\$38,805.00

Component Description:

Invoice is 25%
Down Payment for
\$438,330 ATC
total estimated
cost, main plus
interim. (See
Exhibits 6C and
7C). This cost is
25% of Interim
Transmission Line,
pro rata share.
(See Exhibit 6C, 3-
A.)

Amount:

\$19,402.50

Horiz and Ceiling Anchors	<div> Component Description: Horizontal and ceiling mounting hangers for primary transmission line. See quote in Exhibit 35. </div> <div> Amount: \$1,172.80 </div>
	<div> Component Description: Freight for ceiling and horizontal transmission line hangers - primary line. </div> <div> Amount: \$114.84 </div>
Additional Elbow	<div> Component Description: One six-inch elbow. Please see quote in Exhibit 32. </div> <div> Amount: \$2,025.00 </div> <div> Component Description: Freight - One Six-Inch elbow. </div> <div> Amount: \$114.84 </div>

TX Line Mounting Hardware	<div data-bbox="715 174 1361 488"> <p>Component Description: Hardware for primary transmission line. See quote in Exhibit 24. Includes Freight and Sales Tax.</p> <p>Amount: \$5,784.91</p> </div> <div data-bbox="715 593 1361 947"> <p>Component Description: Additional hardware for primary transmission line. See quote in Exhibit 24. Includes Freight and Sales Tax.</p> <p>Amount: \$199.40</p> </div>
RF Accessories	Information not provided.

Rigid Transmission Line -
copper, 6 1/8" broadband

Component Description:

Primary
transmission line,
cut lengths.
Please see Exhibit
5A.

Amount:

\$4,125.00

Component Description:

Primary
transmission line;
cut pieces. Please
see Exhibit 5A for
quote.

Amount:

\$2,062.50

Component Description:

Primary
transmission line -
cut pieces. Please
see Exhibit 5A.

Amount:

\$8,250.00

Component Description:

Progress payment
for primary
transmission line.
Please see Exhibit
5B for quote.

Amount:

\$83,635.02

Component Description:

Down payment for
primary
transmission line.
Please see Exhibit
5A line item 3.

Amount:

\$83,635.02

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	\$626,113.00	\$410,189.00		\$395,755.67	
GTOWER					
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$377,109.00	Remove and Install top-mounted, candelabra antenna. Remove 1,200 feet of waveguide and install an equal length of rigid coaxial line. Please see Exhibit 21. Includes \$57,200 in Bad Weather Days. See Exhibits 27, 28, and 29.	\$377,109.00	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$4,000.00	Cost for plumb and tension after customer installation is complete. See Exhibit 6B.	\$4,166.67	Only plumb and tension necessary. See Exhibit 14.

Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$8,267.00	Cost decreased from prior estimate. See Exhibit 6B.	\$0.00	N/A
Structural Engineering	\$6,333.00	\$6,333.00	Rigorous Structural analysis to access the structural capacity and modifications needed to accommodate the repacked equipment. Cost decreased since last estimate. See Exhibit 6B.	\$0.00	N/A
Tower Project Management	\$14,480.00	\$14,480.00	Project management fee for both the primary and interim antenna. See Exhibits 6B, 1-A-1 (\$9,480) and 7B, 3-D-1 (\$5,000). Scheduling and management of the timelines and schedules occurring during the	\$14,480.00	N/A

Permit Drawing Packages	\$0.00	\$0.00	No Permit drawing packages required for tower or building A&E. Please see Exhibit 14.	\$0.00	N/A
Sub-total	\$626,113.00	\$410,189.00	N/A	\$395,755.67	N/A
Total for all systems	\$3,830,098.07	\$3,020,977.86	N/A	\$2,686,536.32	N/A

Components

Actual Information Description	File Name
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Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Component Description: Bad Weather Days. Please see Exhibit 27. Amount: \$8,450.00
	Component Description: 50% Down Payment for Tower Rigging. Please see Exhibit 21 for quotation. Amount: \$159,954.50
	Component Description: Bad Weather Days. Please see Exhibit 28. Amount: \$29,250.00
	Component Description: Bad Weather Days. Please see Exhibit 29. Amount: \$19,500.00
	Component Description: Primary Antenna and Line Rigging Final Payment. Please see Exhibit 21 for quotation. Amount: \$159,954.50

Minor tower reinforcement /modifications	<div> Component Description: Only plumb and tension necessary. See Exhibit 14. </div> <div> Amount: \$1,166.67 </div>
	<div> Component Description: Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 50% of tower Plumb and Tension, pro rata share. (See Exhibit 7C, 3-A-2.) </div> <div> Amount: \$2,000.00 </div>
	<div> Component Description: Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 25% of tower Plumb and Tension, pro rata share. (See Exhibit 7C, 3-A-2.) </div> <div> Amount: \$1,000.00 </div>

Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	Component Description:	Credits \$6,200.01 for costs claimed to be invoiced separately. See Exhibit 14.
	Amount:	(\$6,200.01)
	Component Description:	Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 25% of Tower Mapping, pro rata share. (See Exhibit 7C, 3-A-1.)
	Amount:	\$2,066.67
	Component Description:	Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 50% of Tower Mapping, pro rata share. (See Exhibit 7C, 3-A-1.)
	Amount:	\$4,133.34

Structural Engineering	<div data-bbox="715 174 1374 405"> <p>Component Description: Credits \$4,749.99 for items claimed to be invoiced separately. Please see Exhibit 14.</p> <p>Amount: (\$4,749.99)</p> </div> <div data-bbox="715 512 1378 1021"> <p>Component Description: Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 50% of Structural Analysis, pro rata share. (See Exhibit 6C, 3-A-1.)</p> <p>Amount: \$3,166.66</p> </div> <div data-bbox="715 1128 1378 1637"> <p>Component Description: Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 25% of Structural Analysis, pro rata share. (See Exhibit 6C, 3-A-1.)</p> <p>Amount: \$1,583.33</p> </div>
Tower Project Management	

Component Description:	Credits 75% of the \$9,480 Project Management fee (see Exhibits 11C and 13C 1A1) and adds \$1,250 for Project Management (Exhibit 14, 3D1 - two places).
Amount:	(\$5,860.00)

Component Description:	Project Management. See Exhibit 15. Previously Invoiced on Milestone 1 (Exhibit 11C) and Milestone 2 (Exhibit 13C) but later refunded (Exhibit 14).
Amount:	\$9,480.00

Component Description:	Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 50% of Interim plus Primary project management. (See Exhibit 6C, 1-A-1 plus Exhibit 7C, 3-D-1.)
Amount:	\$7,240.00

Component Description:

Invoice is 25%
Down Payment for
\$438,330 ATC
total estimated
cost, main plus
interim. (See
Exhibits 6C and
7C). This cost is
25% of Interim
plus Primary
project
management.
(See Exhibit 6C, 1-
A-1 plus Exhibit
7C 3-D-1.)

Amount:

\$3,620.00

Permit Drawing Packages

Component Description: No permits required by local jurisdiction. Please see Exhibit 14.

Amount: (\$7,050.00)

Component Description: Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 50% of Tower plus Building Permit Packages, pro rata share. (See Exhibit 7C, 3-D-1 (\$4,700 twice).

Amount: \$4,700.00

Component Description: Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 25% of Tower plus Building Permit Packages, pro rata share. (See Exhibit 7C, 3-D-1 (\$4,700 twice).

Amount: \$2,350.00

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$92,775.00	\$70,083.00		\$13,008.33	
RF System Test - Interim	<i>\$5,000.00</i>	\$5,000.00	Radiofrequency system test of interim antenna system and combiner. Please see Exhibit 14, item 3-D-1, which was missed on the original estimate.	\$5,000.00	N/A
Site Coordination Meeting	<i>\$2,500.00</i>	\$2,500.00	Meeting to coordinate efforts between broadcasters, tower owner, and tower contractors.	\$2,500.00	N/A
RF Exposure Measurements	\$21,050.00	\$3,333.00	RF Exposure measurements. See Exhibit 7B.	\$833.33	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$250.00	N/A	N/A	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,000.00	N/A	N/A	N/A

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$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
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,000.00	N/A	\$1,300.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$875.00	N/A

Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	Please see Exhibit 14.	\$2,500.00	N/A
Project management of the transition	\$39,500.00	\$37,500.00	Company lacks internal resources.	N/A	N/A
Sub-total	\$92,775.00	\$70,083.00	N/A	\$13,008.33	N/A
Total for all systems	\$3,830,098.07	\$3,020,977.86	N/A	\$2,686,536.32	N/A

Components

Actual Information		
Description	File Name	
RF System Test - Interim	Component Description: Amount:	Radiofrequency system test of interim antenna system and combiner. Missed in original estimate. Please see Exhibit 14. \$5,000.00

Site Coordination Meeting	<table> <tr> <td data-bbox="689 87 1098 324">Component Description:</td><td data-bbox="1098 87 1426 324">Site coordination meetings. Please see Exhibit 14; 1-B-1.</td></tr> <tr> <td data-bbox="689 324 1098 436">Amount:</td><td data-bbox="1098 324 1426 436">\$625.00</td></tr> <tr> <td data-bbox="689 436 1098 952">Component Description:</td><td data-bbox="1098 436 1426 952">Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 50% of Site Coordination Meetings, pro rata share. (See Exhibit 7C, 1-B-1.)</td></tr> <tr> <td data-bbox="689 952 1098 1064">Amount:</td><td data-bbox="1098 952 1426 1064">\$1,250.00</td></tr> <tr> <td data-bbox="689 1064 1098 1655">Component Description:</td><td data-bbox="1098 1064 1426 1655">Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 25% of Site Coordination Meetings, pro rata share. (See Exhibit 7C, 1-B-1.)</td></tr> <tr> <td data-bbox="689 1655 1098 1655">Amount:</td><td data-bbox="1098 1655 1426 1655">\$625.00</td></tr> </table>	Component Description:	Site coordination meetings. Please see Exhibit 14; 1-B-1.	Amount:	\$625.00	Component Description:	Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 50% of Site Coordination Meetings, pro rata share. (See Exhibit 7C, 1-B-1.)	Amount:	\$1,250.00	Component Description:	Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 25% of Site Coordination Meetings, pro rata share. (See Exhibit 7C, 1-B-1.)	Amount:	\$625.00
Component Description:	Site coordination meetings. Please see Exhibit 14; 1-B-1.												
Amount:	\$625.00												
Component Description:	Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 50% of Site Coordination Meetings, pro rata share. (See Exhibit 7C, 1-B-1.)												
Amount:	\$1,250.00												
Component Description:	Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 25% of Site Coordination Meetings, pro rata share. (See Exhibit 7C, 1-B-1.)												
Amount:	\$625.00												

<p>RF Exposure Measurements</p>	<table> <tr> <td data-bbox="703 174 1011 210">Component Description:</td><td data-bbox="1145 174 1366 327">Please see Exhibit 14. Actual cost apparently less than anticipated.</td></tr> <tr> <td data-bbox="703 338 815 367">Amount:</td><td data-bbox="1145 338 1281 367">(\$1,666.67)</td></tr> <tr> <td data-bbox="703 477 1011 512">Component Description:</td><td data-bbox="1145 477 1374 943">Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 25% of Interim RF Exposure Measurements, pro rata share. (See Exhibit 6C, 1-A-4.)</td></tr> <tr> <td data-bbox="703 954 815 983">Amount:</td><td data-bbox="1145 954 1243 983">\$833.33</td></tr> <tr> <td data-bbox="703 1093 1011 1128">Component Description:</td><td data-bbox="1145 1093 1374 1559">Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 50% of Interim RF Exposure Measurements, pro rata share. (See Exhibit 6C, 1-A-4.)</td></tr> <tr> <td data-bbox="703 1570 815 1599">Amount:</td><td data-bbox="1145 1570 1265 1599">\$1,666.67</td></tr> </table>	Component Description:	Please see Exhibit 14. Actual cost apparently less than anticipated.	Amount:	(\$1,666.67)	Component Description:	Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 25% of Interim RF Exposure Measurements, pro rata share. (See Exhibit 6C, 1-A-4.)	Amount:	\$833.33	Component Description:	Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 50% of Interim RF Exposure Measurements, pro rata share. (See Exhibit 6C, 1-A-4.)	Amount:	\$1,666.67
Component Description:	Please see Exhibit 14. Actual cost apparently less than anticipated.												
Amount:	(\$1,666.67)												
Component Description:	Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 25% of Interim RF Exposure Measurements, pro rata share. (See Exhibit 6C, 1-A-4.)												
Amount:	\$833.33												
Component Description:	Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 50% of Interim RF Exposure Measurements, pro rata share. (See Exhibit 6C, 1-A-4.)												
Amount:	\$1,666.67												
<p>ASR modification (prepare FCC Form 854)</p>	<p>Information not provided.</p>												
<p>Attorney Fees - Negotiation of lease and other matters for shared locations</p>	<p>Information not provided.</p>												

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	<p>Component Description: Prepare Engineering Section of FCC Construction Permit Application.</p> <p>Amount: \$1,300.00</p>
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.
Perform engineering study for new channel assignment and antenna development	<p>Component Description: Conduct review of channel assignment. Determine Max ERP.</p> <p>Amount: \$875.00</p>
Address transition timing and coordination issues w/ other stations and wireless	<p>Component Description: Address transition timing. This item was missed on original ATC estimate but included in Exhibit 14.</p> <p>Amount: \$2,500.00</p>
Project management of the transition	Information not provided.

Cost Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$95,116.36	\$88,516.36		\$16,976.56	
Deinstall Old Transmitter	<i>\$21,844.80</i>	\$21,844.80	Complete disconnection of Harris Sigma CD transmitter and move to staging area on site. (See Exhibit 3B, Item I.)	\$0.00	N/A
MVPD Notification of Channel Change	<i>\$1,000.00</i>	\$1,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$5,000.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	N/A	N/A
Local Zoning	<i>\$5,000.00</i>	\$5,000.00	N/A	N/A	N/A

Non-zoning permits	\$0.00	\$0.00	No permits were required by the local jurisdiction. Please see Exhibit 14.	\$0.00	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$20,000.00	\$20,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$34,276.56	\$34,276.56	Includes shipping for primary transmitter (Exhibit 3B, Page 1), Primary Antenna and TX Line (Exhibit 38), and various cut length lines (Exhibits 39, 40, and 42.)	\$16,976.56	N/A
Sub-total	\$95,116.36	\$88,516.36	N/A	\$16,976.56	N/A
Total for all systems	\$3,830,098.07	\$3,020,977.86	N/A	\$2,686,536.32	N/A

Components

Actual Information
Description

File Name

Deinstall Old Transmitter	<div> <div> Component Description: Amount: </div> <div> Credit for removal of old transmitter (see Exhibit 3B Item I) since work has not been completed. Will be billed on a future invoice. (\$7,281.60) </div> </div> <div> <div> Component Description: Amount: </div> <div> One-third progress payment of item I from GatesAir quote Q-76546 (please see Exhibit 3B). \$7,281.60 </div> </div>
MVPD Notification of Channel Change	Information not provided.
DTV Medical Facility Notification	Information not provided.
FCC Filing Fees - Form 2100 license to cover application	Information not provided.
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.
Local Zoning	Information not provided.

Non-zoning permits	<div data-bbox="715 174 1374 645"> <p>Component Description: Invoice is 50% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 50% of Building Permit costs. (See Exhibit 7C, 1-A-3.)</p> <p>Amount: \$375.00</p> </div> <div data-bbox="715 752 1374 943"> <p>Component Description: No permits were required by local jurisdiction. Please see Exhibit 14.</p> <p>Amount: (\$562.50)</p> </div> <div data-bbox="715 1050 1374 1520"> <p>Component Description: Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6C and 7C). This cost is 25% of Building Permit costs. (See Exhibit 7C, 1-A-3.)</p> <p>Amount: \$187.50</p> </div>
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.

Equipment Delivery and
Handling Charges

Component Description: Shipping for
Primary Antenna
and Transmission
Line. Please see
Exhibit 38.

Amount: \$9,070.20

Component Description: Freight for Cut
Length Primary
Transmission
Lines shown in
Dielectric Invoice
677031 (Exhibit
41).

Amount: \$1,209.80

Component Description: Freight for Primary
Transmission Line
Cut Sections.
Please see Exhibit
40.

Amount: \$5,623.11

Component Description: Freight for Primary
Transmission Line
Cut Sections. See
Exhibit 39.

Amount: \$1,073.45

Cost Information	Grand Total		
		Predetermined Cost Estimate	Estimated Cost
			Actual Cost
	Total for all systems	\$3,830,098.07	\$3,020,977.86
			\$2,686,536.32

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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<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.

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

I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.

Andrew J Siegel
Assistant Secretary

03/06/2020

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>Andrew J Siegel <i>Assistant Secretary</i></p> <p>03/06/2020</p>

Attachments