



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **68581** | Service: **DTV** | Call **KTVD** | Channel: **31 (UHF)**
ID: | Sign:
File **0000027983**
Number:
FRN: **0001887363** | Date **10/25**
Submitted: **/2019**

Applicant Information Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
MULTIMEDIA HOLDINGS CORPORATION	Law Department TEGNA Inc. 8350 Broad Street, Suite 2000 Tysons, VA 22107 United States	+1 (703) 873- 6600	lawdept@tegna. 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
Gary Davis <i>Regional Head of Technology and Operations</i> <i>TEGNA</i>	Gary Davis 8350 Broad Street Suite 2000 Tysons, VA 22102 United States	+1 (404) 873- 9199	gadavis@tegna. 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.	No
Briefly describe transition plan	KTVD will be moving to channel 31 from channel 19. It plans to repurpose the current broadband antenna and transmission line. It requires a new combiner port and a new transmitter. It would cost more to re-tune the existing TX than to purchase a new.

Transmitters

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

**Auxiliary
Transmitter****Existing Transmitter Information**

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Low Power Backup transmitter
	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	Ranger
	Year	2003
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	1 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	UAXTE 2R37
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	1.2 kW
	Justification for New Transmitter	The old transmitter cannot be re-tuned.

**Auxiliary
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	Yes
	Size	2 inches
	Length	100.0 feet
	Other Electrical Service	Yes

	Description	Additional electrical services required for transmitter installation.
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**
Information not provided.

**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	PWR 60 P2
	Year	2007
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	60 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	ULXT 60
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	51 kW
	Justification for New Transmitter	It will cost more to re-tune the old transmitter with interim transmitter lease pricing than purchasing a new one.

**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	Yes
	Size	3 inches

	Length	100.0 feet
	Other Electrical Service	Yes
	Description	Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc.
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?	Yes
	Size	100.0 square feet
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Combiner Install and Testing	Combiner Install and Testing
Transmitter installation	Transmitter installation

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	Retune Existing
	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?	Yes
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Top
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	2
	Number of Panels	48
	Design power capacity in use	50.0 %
Lower Limit	470.00 MHz	

Upper Limit	860.00 MHz
Other Antenna Type	N/A
ERP: (Effective Radiated Power)	1000.0 kW
Manufacturer	Dielectric
Model	TUC-C4SP-12/48U-4-T
Year	2008

Facility ID's and Call Signs of all stations with whom the antenna is shared.

Facility ID	Call Sign
47903	KCNC-TV

Primary Antenna

Adjustment to Existing Antenna

Section	Question	Response
Sweep Test of Existing Antenna	Do you need a sweep test of existing antenna?	Yes

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Type	Additional Module
	Number of channels supported	3
	Frequencies of channels supported	RF channel
	Frequency	N/A

Enter a list of RF channel numbers.

RF Channel Number
19
31
35

Primary Antenna

Other Antenna Cost Not Listed

Name	Description
Mask Filter	New mask filter required for new channel.

Auxiliary Antenna

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Retune Existing
	Antenna Use	Auxiliary (Backup)
	Description of Use	AUX Antenna
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	Yes
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack

Polarization	Horizontal
Type	Broadband Panel
Number of Stations Supported	2
Number of Panels	36
Design power capacity in use	50.0 %
Lower Limit	470.00 MHz
Upper Limit	860.00 MHz
Other Antenna Type	N/A
ERP: (Effective Radiated Power)	987.0 kW
Manufacturer	Dielectric
Model	TUA-C3-12 /36-1-S
Year	2008

Facility ID's and Call Signs of all stations with whom the antenna is shared.

Facility ID	Call Sign
47903	KCNC-TV

Auxiliary Antenna

Adjustment to Existing Antenna

Section	Question	Response
Sweep Test of Existing Antenna	Do you need a sweep test of existing antenna?	Yes

Auxiliary Antenna

Other Antenna Costs

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

Type	Additional Module
Number of channels supported	3
Frequencies of channels supported	RF channel
Frequency	N/A

Enter a list of RF channel numbers.

RF Channel Number
19
31
35

Auxiliary Antenna

Other Antenna Cost Not Listed

Name	Description
Mask Filter	New mask filter required for new channel.

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

Primary Transmission Line
Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	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?	Yes
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	Dielectric
	Type	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	2
	Length	1000 feet per run

Facility ID's and Call Signs of all stations with whom the transmission line is shared.

Facility ID	Call Sign
47903	KCNC-TV

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

Name	Description
TX Line Sweep	Sweep required to verify post-transition channel measures well on existing line.
Miscellaneous Parts	Miscellaneous Parts

Auxiliary Transmission Line **Existing Transmission Line**

Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Auxiliary (Backup)
	Description of Use	AUX Line
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	Yes
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	Dielectric
	Type	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A

Number of parallel runs	2
Length	1000 feet per run

**Facility ID's and Call Signs of
all stations with whom the
transmission line is shared.**

Facility ID	Call Sign
47903	KCNC-TV

**Auxiliary
Transmission
Line**

Other Transmission Line Expenses Not Listed

Name	Description
TX Line Sweep	Sweep required to verify post-transition channel measures well on existing line.

Tower Equipment And Rigging Costs

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

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	No
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1058328
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	39° 43' 50.6" N-
	Longitude (NAD83)	105° 13' 55.6" W-
	Overall Structure Height	734.24 feet
	Support Structure Height	620.40 feet
	Ground Elevation Above Mean Sea Level (AMSL)	7115.40 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	LAKE CEDAR GROUP, L. L.C.
Date Constructed	06/01/2009

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
47903	KCNC-TV	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	N/A
Helicopter Services Required	Are helicopter services required?	No

**Primary
Tower**

Other Tower Expenses Not Listed

Information not provided.

Outside Professional Services Costs

Section	Question	Response
<p>Outside Project Management Services</p>	<p>Do you require outside project management services?</p>	<p>Yes</p>
	<p>Number of Hours</p>	<p>200</p>
	<p>Explanation</p>	<p>Fewer PM tasks are needed & OES & 399 work are needed, so the PM total has been reduced to \$150x200hrs (\$30000), a new OES component has been created & funded with part of the \$ removed from PM, & "Prepare & or review reimbursement form" has been increased</p>
<p>Outside RF consulting Engineering Services</p>	<p>Perform engineering study for new channel assignment and antenna development</p>	<p>Yes</p>
	<p>Prepare engineering section of Form FCC Construction Permit Application</p>	<p>Yes</p>
	<p>For Auxiliary Facility</p>	<p>Yes</p>
	<p>For Main Facility</p>	<p>Yes</p>
	<p>Prepare engineering section of Form FCC License to Cover Application</p>	<p>Yes</p>
	<p>For Auxiliary Facility</p>	<p>Yes</p>
	<p>For Main Facility</p>	<p>Yes</p>
	<p>Prepare request for Special Temporary Authority</p>	<p>Yes</p>

	Quantity	2
	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	Yes
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	2
	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	Yes
	Additional Field Engineering Service	Yes

Number of Days	10
Justification	\$2,500 per site visit including expenses x 10 days. It is necessary to survey the site, plan the equipment, develop specifications for purchasing, & oversee multiple vendor RF projects. Station does not have available personnel trained in such services.

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Other Legal Services	Other Legal Services related to the DTV Repack
Pre filing site review	outside engineering to review all facilities
Other Engineering Services	Fewer PM tasks are needed & OES & 399 work are needed, so the PM total has been reduced to \$150x200hrs(\$30000), a new OES component has been created & funded with part of the \$ removed from PM, & "Prepare & or review reimbursement form" has been increased

Other Expenses

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

**Other
Expenses**

Other Expenses Not Listed

Information not provided.

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 ULXT 60	\$1,363,664.02	\$1,363,364.02		\$1,298,438.07	
Transmitter installation	<i>\$18,345.45</i>	\$18,345.45	Transmitter installation	\$18,345.45	N/A
Combiner Install and Testing	<i>\$16,465.00</i>	\$16,465.00	Combiner Install & Testing	\$16,465.00	N/A
Other -- Building Addition Size: 100.0	<i>\$25,000.00</i>	\$25,000.00	New pad required for heat exchangers, transformers, pumps, etc. Equipment must also be shielded.	\$301.42	N/A
Other Electrical Service: Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc.	<i>\$122,153.30</i>	\$122,153.30	See Encore Electric Quote. The total is 50 cents higher than originally thought due to the "cents" being lopped off on the vendor's quote.	\$121,891.33	N/A

UHF - Liquid Cooled Solid State Transmitter 51 kW	\$1,176,500.27	\$1,176,500.27	See attached GatesAir quotes and invoices. Also, see Dielectric LLC quotes and invoices. Also, Majestic Rigging and Transportation invoices & quotes.	\$1,141,434.87	The Actual Cost exceeds the Estimated Cost due in part to the inclusion of the Combiner & RF System in this category, as well as sales tax.
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$4,900.00	N/A	N/A	N/A
Auxiliary Transmitter UAXTE 2R37	\$153,600.00	\$124,332.10		\$96,832.10	
UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	\$126,000.00	\$96,832.10	See attached GatesAir invoices GO10004858-1 and US0322514, with corresponding Quotes and Change Orders.	\$96,832.10	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$2,600.00	\$2,500.00	N/A	N/A	N/A

Other Electrical Service: Additional electrical services required for transmitter installation.	\$25,000.00	\$25,000.00	Additional electrical services required for transmitter installation.	N/A	N/A
Sub-total	\$1,517,264.02	\$1,487,696.12	N/A	\$1,395,270.17	N/A
Total for all systems	\$2,636,529.44	\$2,581,898.04	N/A	\$1,573,674.22	N/A

Components

Actual Information	
Description	File Name
Transmitter installation	<p>Component Description: Gates inv #US0321815 Stage 1 Filter line install UL20190416jgv1</p> <p>Amount: \$18,345.45</p>
Combiner Install and Testing	<p>Component Description: H and D 47443 v190628jgv1</p> <p>Amount: \$16,465.00</p>
Other -- Building Addition Size: 100.0	<p>Component Description: Inv 148630459 KTVD Equipment rental UL20180601jgv1</p> <p>Amount: \$301.42</p>

Other Electrical Service:
Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc.

Component Description: Amazon 31165
v190611pmv1
Amount: \$25.73

Component Description: Gates US0328257
v191007pmv1
Amount: \$28,916.10

Component Description: KTVD Encore Elec
inv #43123
Electrical work
UL20180806jg v2
Amount: \$92,949.50

Component Description: Amazon 30622
v190611pmv1
Amount: \$262.00

UHF - Liquid Cooled Solid State Transmitter 51 kW

Component Description: Majestic HN-630000622
v190923pmv1
Amount: \$18,784.80

Component Description: Majestic HN-630000252
v190923pmv1
Amount: \$2,230.80

Component Description: Majestic HN-630000532
v190923pmv1
Amount: \$10,357.30

Component Description: Die 323010
v191025pmv4
Amount: \$276.00

Component Description: Die 235024
v191025pmv4
Amount: \$6,592.12

Component Description: Die 323010
v191025pmv4
Amount: \$36.00

Component Description: Die 323010
v191025pmv4
Amount: \$1,272.00

Component Description: Die 323010
v191025pmv4
Amount: \$14,028.00

Component Description: Die 323010
v191025pmv4
Amount: \$672.00

Component Description: Die 235024
v191025pmv4
Amount: \$6,592.12

Component Description: Die 323010
v190712pmv1
Amount: \$127.20

Component Description: Gates inv
#US0320664
Various transmitter
parts
UL20190416jgv1
Amount: \$3,017.61

Component Description: Inv US0307626
KTVD ULXT-60 TX
change order
UL20180515jgv1
Amount: \$23,246.71

Component Description: Majestic 1203232
v190923pmv1
Amount: \$2,050.00

Component Description: Die 332003
v190820pmv2
Amount: \$2,800.00

Component Description: Die 332003
v190712pmv1
Amount: \$104.64

Component Description: Majestic 1203333
v190923pmv1
Amount: \$1,642.50

Component Description: Inv US0307804
KTVD ULXT-60 TX
balance due
UL20180515jgv2
Amount: \$456,327.97

Component Description: Die 323010
v190712pmv1
Amount: \$3.60

Component Description: Die 332003
v190712pmv1
Amount: \$280.00

Component Description: Die 325036
v190820pmv2
Amount: \$250.00

Component Description: Die 323010
v190917pmv3
Amount: \$3,500.00

Component Description: Inv MAN00386
KTVD Combiner
and RF System 45
percent payment 2
UL20180424jg v1
Amount: \$92,291.63

Component Description: Die 242072
v190820pmv2
Amount: \$7,325.00

Component Description: Deposit on
Transmitter
Amount: \$144,324.64

Component Description: Die 332003
v190820pmv2
Amount: \$1,250.00

Component Description: Die 323010
v190712pmv1
Amount: \$67.20

Component Description: Die 235024
v1900820pmv2
Amount: N/A

Component Description: Inv MAN00269
KTVD Combiner
and RF System 45
percent down
payment
UL20180424jg v1
Amount: \$92,291.63

Component Description: Transmitter
/Components-
GatesAir
Amount: \$422,226.60

Component Description: Amazon 31900
v190530pmv1
Amount: \$52.56

Component Description: Die 323010
v190712pmv1
Amount: \$27.60

Component Description: Die 325036
v190712pmv1
Amount: \$25.00

Component Description: Die 323010
v190712pmv1
Amount: \$350.00

Component Description: Inv GO10004699-1
KTVD ULXT-60
transmitter 50
percent down
payment
UL20180424jg v1
Amount: \$390,798.01

Component Description: Majestic 630000097
v190530pmv1
Amount: \$1,760.00

Component Description: Die 323010
v190712pmv1
Amount: \$274.05

Component Description: Die 242072
v190712pmv1
Amount: \$7,325.00

Component Description: Die 323010
v190712pmv1
Amount: \$1,402.80

Component Description: Gates inv
#US0320805
Various transmitter
parts
UL20190416jgv1
Amount: \$2,042.67

Component Description: Die 332003
v190712pmv1
Amount: \$125.00

3" Rigid Conduit and
Wiring (Cost per foot)

Information not provided.

<p>UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW</p>	<table border="0"> <tr> <td data-bbox="699 181 1007 210">Component Description:</td> <td data-bbox="1139 181 1358 327"> <p>Gates inv #GO10004858-1 Aux TX 50 pct pmt 1 UL20181030jgv1</p> </td> </tr> <tr> <td data-bbox="699 342 807 371">Amount:</td> <td data-bbox="1139 342 1273 371">\$44,168.95</td> </tr> <tr> <td data-bbox="699 479 1007 508">Component Description:</td> <td data-bbox="1139 479 1358 546"> <p>Gates US0321035 v190918pmv1</p> </td> </tr> <tr> <td data-bbox="699 562 807 591">Amount:</td> <td data-bbox="1139 562 1238 591">\$984.13</td> </tr> <tr> <td data-bbox="699 698 1007 728">Component Description:</td> <td data-bbox="1139 698 1358 766"> <p>Gates US0317124 v190918pmv1</p> </td> </tr> <tr> <td data-bbox="699 781 807 810">Amount:</td> <td data-bbox="1139 781 1273 810">\$27,875.58</td> </tr> <tr> <td data-bbox="699 918 1007 947">Component Description:</td> <td data-bbox="1139 918 1358 985"> <p>Gates US0321036 v190918pmv1</p> </td> </tr> <tr> <td data-bbox="699 1001 807 1030">Amount:</td> <td data-bbox="1139 1001 1222 1030">\$86.12</td> </tr> <tr> <td data-bbox="699 1137 1007 1167">Component Description:</td> <td data-bbox="1139 1137 1358 1205"> <p>Gates US0322514 v190918pmv2</p> </td> </tr> <tr> <td data-bbox="699 1220 807 1249">Amount:</td> <td data-bbox="1139 1220 1273 1249">\$23,717.32</td> </tr> </table>	Component Description:	<p>Gates inv #GO10004858-1 Aux TX 50 pct pmt 1 UL20181030jgv1</p>	Amount:	\$44,168.95	Component Description:	<p>Gates US0321035 v190918pmv1</p>	Amount:	\$984.13	Component Description:	<p>Gates US0317124 v190918pmv1</p>	Amount:	\$27,875.58	Component Description:	<p>Gates US0321036 v190918pmv1</p>	Amount:	\$86.12	Component Description:	<p>Gates US0322514 v190918pmv2</p>	Amount:	\$23,717.32
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Component Description:	<p>Gates US0321036 v190918pmv1</p>																				
Amount:	\$86.12																				
Component Description:	<p>Gates US0322514 v190918pmv2</p>																				
Amount:	\$23,717.32																				
<p>2" Rigid Conduit and Wiring (Cost per foot)</p>	<p>Information not provided.</p>																				
<p>Other Electrical Service: Additional electrical services required for transmitter installation.</p>	<p>Information not provided.</p>																				

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
Primary Antenna TUC-C4SP-12/48U-4-T	\$183,130.00	\$179,796.26		\$90,762.10	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)	\$18,950.00	\$18,000.00	N/A	\$8,615.86	N/A
Adding a module to existing combiner (without antenna)	\$84,200.00	\$82,146.26	3-channel manifold combiner required in order to repurpose existing broadband antenna and broadband transmission line. See attached Dielelctric quote.	\$82,146.24	N/A

Mask Filter	<i>\$73,250.00</i>	\$73,250.00	New mask filter required for new post-transition channel. See attached Dielectric quote.	N/A	N/A
Auxiliary Antenna TUA-C3-12 /36-1-S	\$134,880.00	\$129,427.75		\$14,106.50	
Mask Filter	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)	\$18,950.00	\$18,000.00	N/A	N/A	N/A
Adding a module to existing combiner (without antenna)	\$84,200.00	\$80,027.75	3-channel manifold combiner required in order to repurpose existing broadband antenna and broadband transmission line. See attached Dielectric quote.	\$14,106.50	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
Sub-total	\$318,010.00	\$309,224.01	N/A	\$104,868.60	N/A

Total for all systems	\$2,636,529.44	\$2,581,898.04	N/A	\$1,573,674.22	N/A
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Components

Actual Information Description	File Name
Sweep test of existing antenna	Information not provided.
Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)	Component Description: Die ST499005 v190617jgv1 Amount: \$339.46
	Component Description: Die 563025 v190930pmv1 Amount: \$1,960.00
	Component Description: Die ST563025 v190930pmv1 Amount: \$78.40
	Component Description: Die inv #US0320792 Swivel Hanger and tax UL20190405jgv1 Amount: \$2,153.00
	Component Description: Die 499005 v190610pmv1 Amount: \$4,085.00

<p>Adding a module to existing combiner (without antenna)</p>	<p>Component Description: Die MAN01016 v190806pmv1</p> <p>Amount: \$37,673.12</p> <p>Component Description: Die MAN01015 v190806pmv1</p> <p>Amount: \$37,673.12</p> <p>Component Description: Die 235024 v190604pmv1</p> <p>Amount: N/A</p> <p>Component Description: Die 445002 v190503jgv2</p> <p>Amount: \$6,800.00</p>
<p>Mask Filter</p>	<p>Information not provided.</p>
<p>Mask Filter</p>	<p>Information not provided.</p>
<p>Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)</p>	<p>Information not provided.</p>

<p>Adding a module to existing combiner (without antenna)</p>	<p>Component Description: Electron D 201812007 v190507jgv2</p> <p>Amount: \$14,106.50</p> <p>Component Description: Die 235024 v190604pmv1</p> <p>Amount: \$65,921.25</p> <p>Component Description: Electron D inv #201812007 Manifold Aux Combiner Install UL20190402jgv1</p> <p>Amount: \$14,106.50</p>
<p>Sweep test of existing antenna</p>	<p>Information not provided.</p>

Cost Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmission Line	\$7,069.76	\$7,069.76		\$669.76	
TX Line Sweep	<i>\$6,400.00</i>	\$6,400.00	N/A	N/A	N/A
Miscellaneous Parts	<i>\$669.76</i>	\$669.76	N/A	\$669.76	N/A
Auxiliary Transmission Line	\$6,400.00	\$6,400.00		\$0.00	
TX Line Sweep	<i>\$6,400.00</i>	\$6,400.00	N/A	N/A	N/A
Sub-total	\$13,469.76	\$13,469.76	N/A	\$669.76	N/A
Total for all systems	\$2,636,529.44	\$2,581,898.04	N/A	\$1,573,674.22	N/A

Components

Actual Information	
Description	File Name
TX Line Sweep	Information not provided.
Miscellaneous Parts	<p>Component Description: Die ST573039 v191007pmv1</p> <p>Amount: \$25.76</p> <p>Component Description: Die 573039 v191007pmv1</p> <p>Amount: \$644.00</p>

TX Line Sweep	Information not provided.
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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	\$394,800.00	\$375,000.00		\$0.00	
Minor tower reinforcement /modifications	\$158,000.00	\$150,000.00	N/A	N/A	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$25,000.00	N/A	N/A	N/A
Tall Tower (greater than 500')	\$210,500.00	\$200,000.00	N/A	N/A	N/A
Sub-total	\$394,800.00	\$375,000.00	N/A	\$0.00	N/A
Total for all systems	\$2,636,529.44	\$2,581,898.04	N/A	\$1,573,674.22	N/A

Components

Information not provided.

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$268,155.66	\$272,243.15		\$52,455.54	
Other Engineering Services	<i>\$15,000.00</i>	\$15,000.00	Fewer PM tasks are needed & OES & 399 work are needed, so the PM total has been reduced to \$150x200hrs (\$30000), a new OES component has been created & funded with part of the \$ removed from PM, & "Prepare & or review reimbursement form" has been increased	\$2,475.00	N/A
Pre filing site review	<i>\$23,500.00</i>	\$23,500.00	N/A	N/A	N/A
Other Legal Services	<i>\$19,260.66</i>	\$19,260.66	Other Legal Services related to the DTV Repack	\$12,892.55	N/A

Additional Field Engineering Service, 10 Days	<i>\$25,000.00</i>	\$25,000.00	\$2,500 per site visit including expenses x 10 days. It is necessary to survey the site, plan the equipment, develop specifications for purchasing, & oversee multiple vendor RF projects. Station does not have available personnel trained in such services.	N/A	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	N/A	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	N/A	N/A
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	\$7,360.00	\$7,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	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
Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	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	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
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A

Project management of the transition	\$31,600.00	\$31,732.49	It will be necessary to schedule and coordinate multiple vendors, complete progress reports, and update Schedule 399s. Station does not have available personnel or personnel trained in project management for such complex projects.	\$31,732.49	See invoices
Prepare and or review reimbursement form	\$2,630.00	\$15,000.00	Fewer PM tasks are needed & OES & 399 work are needed, so the PM total has been reduced to \$150x200hrs (\$30000), a new OES component has been created & funded with part of the \$ removed from PM, & "Prepare & or review reimbursement form" has been increased	\$5,355.50	N/A

Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	N/A	N/A
Sub-total	\$268,155.66	\$272,243.15	N/A	\$52,455.54	N/A
Total for all systems	\$2,636,529.44	\$2,581,898.04	N/A	\$1,573,674.22	N/A

Components

Actual Information	
Description	File Name
Other Engineering Services	<p>Component Description: Osborn inv #29838 Other Eng Svcs UL20190322jgv1</p> <p>Amount: \$2,475.00</p>
Pre filing site review	Information not provided.
Other Legal Services	<p>Component Description: Covington 60801032 v190530jgv2</p> <p>Amount: \$1,958.17</p> <p>Component Description: Covington inv #60805588 Various legal thru 180531 UL20190410jgv1</p> <p>Amount: \$1,756.37</p> <p>Component Description: Covington 60801029 v190712jgv2</p> <p>Amount: \$144.71</p>

Component Description: Covington
60801029
v190508pmv1
Amount: \$164.44

Component Description: Covington
60801032
v190508pmv1
Amount: \$1,521.69

Component Description: Covington
60801029
v190513pmv1
Amount: \$164.44

Component Description: Covington inv
#60796723 Various
Legal
UL20181024jgv1
Amount: \$4,141.93

Component Description: Covington
60805585
v190513pmv1
Amount: \$4,655.68

Component Description: Covington
60805585
v190508pmv1
Amount: \$4,655.68

Component Description: Covington inv
#60808553 Various
legal thru 180630
UL20190410jgv1
Amount: \$235.69

Additional Field Engineering Service, 10 Days	Information not provided.
RF Exposure Measurements	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.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	Information not provided.
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.
Prepare request for Special Temporary Authorization	Information not provided.
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	Information not provided.
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.

Project management of
the transition

Component Description: Osborn inv #26018
Proj Mgt 170530-
170728
UL20181107jg v1
Amount: \$20,669.99

Component Description: Inv 29216 KTVD
Proj Mgt 180428-
180525
UL20180706jg v1
Amount: \$4,350.00

Component Description: Osborn inv #29838
Proj mgt 180526-
180629
UL20190322jgv1
Amount: \$2,362.50

Component Description: Osborn 32836
v190613pmv1
Amount: \$1,200.00

Component Description: Osborn inv #28999
Proj mgt 180331-
180427
UL20190321jgv1
Amount: \$1,725.00

Component Description: Osborn 34596
v190730jgv1
Amount: \$1,425.00

Prepare and or review reimbursement form	<p> Component Description: Osborn inv #28999 Amend 399 Form UL20190301jgv2 Amount: \$3,200.00 </p> <p> Component Description: Osborn 34586 v190730jgv1 Amount: \$1,718.00 </p> <p> Component Description: Osborn inv #29838 Actual Cost Invoices UL20190322jgv1 Amount: \$437.50 </p>
Perform engineering study for new channel assignment and antenna development	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	\$124,830.00	\$124,265.00		\$20,410.15	
Equipment Storage	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Local Zoning	<i>\$750.00</i>	\$750.00	3 cents per \$100 of construction cost.	N/A	N/A
Non-zoning permits	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$3,750.00	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

Develop and air announcement of upcoming channel change	<i>\$6,000.00</i>	\$6,000.00	40 hours at \$150 per hour to shoot, edit . write and produce promotional information.	\$3,270.00	N/A
MVPD Notification of Channel Change	<i>\$6,000.00</i>	\$6,000.00	40 hours at \$150 per hour to shoot, edit . write and produce promotional information.	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$25,000.00</i>	\$25,000.00	N/A	\$13,390.15	N/A
Sub-total	\$124,830.00	\$124,265.00	N/A	\$20,410.15	N/A
Total for all systems	\$2,636,529.44	\$2,581,898.04	N/A	\$1,573,674.22	N/A

Components

Actual Information	
Description	File Name
Equipment Storage	Information not provided.
Local Zoning	Information not provided.
Non-zoning permits	Information not provided.
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.

DTV Medical Facility Notification	<p>Component Description: RF Notifications inv #1052 Medical Notifications UL20181029jg v1</p> <p>Amount: \$3,750.00</p>
FCC Filing Fees - Form 2100 license to cover application	Information not provided.
FCC Filing Fees - Special Temporary Authorization request	Information not provided.
Develop and air announcement of upcoming channel change	<p>Component Description: 2C Media inv #203806 Creation of channel change announcement UL20181016jgv1</p> <p>Amount: \$3,270.00</p>
MVPD Notification of Channel Change	Information not provided.

Equipment Delivery and
Handling Charges

Component Description: Die 323010
v191025pmv4
Amount: \$2,740.52

Component Description: Die 235024
v191025pmv4
Amount: \$8,032.50

Component Description: Die 235024
v190604pmv1
Amount: N/A

Component Description: Die 452006
v190806pmv1
Amount: \$764.93

Component Description: Die 523007
v190807pmv1
Amount: \$59.01

Component Description: Die 564024
v190930pmv1
Amount: \$383.43

Component Description: Die 332003
v190820pmv2
Amount: \$1,046.49

Component Description: Die 567025
v191007pmv1
Amount: \$363.27

Cost Information **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$2,636,529.44	\$2,581,898.04	\$1,573,674.22

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.	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
	<p>Submission of Estimated Expenses Statements</p>	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> <li data-bbox="758 772 1053 1176">1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. <li data-bbox="758 1198 1037 1444">2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. <li data-bbox="758 1467 1045 1747">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.

**Jeffrey C
Gehman**
*Engineering
Associate*

10/25/2019

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	<p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>	
		<ol style="list-style-type: none"> 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.

8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

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

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

**Jeffrey C
Gehman**
*Engineering
Associate*

10/25/2019

Attachments