



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **10802** | Service: **DTV** | Call **WTTW** | Channel: **47 (UHF)** |
ID: | Sign: |
File **0000028360**
Number: |
FRN: **0002860179** | Date **12/30**
Submitted: **/2019**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
WINDOW TO THE WORLD COMMUNICATIONS, INC.	Eshed Halpern	+1 (773) 509-5412	ehalpern@wttw.com	Not-for-Profit
Doing Business As: WINDOW TO THE WORLD COMMUNICATIONS, INC.	5400 NORTH ST. LOUIS AVE CHICAGO, IL 60625 United States			

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
Mike Tompary <i>Window to the World Communications, Inc.</i>	5400 N. St. Louis Ave Chicago, IL 60625 United States	+1 (773) 509-2460	mtompary@wttw.com

**Broadcaster
Information
and
Transition
Plan**

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	Yes
Briefly describe transition plan	Replace aux transmitter with new transmitter and place on air. Replace main transmitter and antenna and place on air at end of phase six. Reconfigure aux and antenna and place into standby.

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	For backup if main transmitter fails
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	Sigma CD Diamond Drive
	Year	2001
	Type	Inductive Output Tube
	IOT Power Type	Single
	Power Capacity	24 kW

**Auxiliary
Transmitter****New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	ULXTE-20
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	10.8 kW
	Justification for New Transmitter	Due to channel reassignment need lower power transmitter and new exciters.

**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	No
	Size	N/A
	Length	N/A
	Other Electrical Service	No

	Description	N/A
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	Sigma CD Diamond Drive
	Year	2001
	Type	Inductive Output Tube
	IOT Power Type	Single
	Power Capacity	24 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	ULXTE-20
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	10.8 kW
	Justification for New Transmitter	Due to channel reassignment need lower power transmitter and new exciters.

**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	Electricians to remove old equipment and install new equipment. Relocate or remove and reinstall all electric work. To remove existing and hang new transmission line. To remove offsite all old equipment.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	20 tons
	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
Great Lakes Plumbing	Remove and install two 10 ton A/C units

Great Lakes Plumbing	GL Plumbing to connect cooling system to building water
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Antennas

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

**Auxiliary
Antenna****Existing Antenna Information**

Section	Question	Response
Existing Antenna Description	Type of change	Retune Existing
	Antenna Use	Auxiliary (Backup)
	Description of Use	Used as backup if main antenna fails
	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?	Yes
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Middle
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	7
	Number of Panels	8

Design power capacity in use	100.0 %
Lower Limit	470.00 MHz
Upper Limit	700.00 MHz
Other Antenna Type	N/A
ERP: (Effective Radiated Power)	300.0 kW
Manufacturer	RFS
Model	PHP24C
Year	2004

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

Facility ID	Call Sign
10981	WCPX-TV
22211	WFLD
32334	WJYS
47905	WMAQ-TV
71428	WCIU-TV
72115	WGN-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?	No

Type	
Number of channels supported	N/A
Frequencies of channels supported	N/A
Frequency	

**Auxiliary
Antenna**

Other Antenna Cost Not Listed

Name	Description
East RFS System	See Willis Tower Preliminary Budget Overview East RFS System

Primary Antenna

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	Yes
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Middle
	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)	300.0 kW

Manufacturer	
Model	ATW13H4 - HSC1 - 47S
Year	2001

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?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	Yes
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Middle
	Polarization	Elliptical
	Type	Broadband Panel
	Number of Stations Supported	2
	Number of Panels/Bays	24
	Lower Limit	488.00 MHz
	Upper Limit	608.00 MHz
	Design power capacity in use	100.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	193.0 kW
	Manufacturer	
	Model	PEPL24C

	Year	2017
	Justification for New Antenna	Channel reassignment from repack

Primary 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	2
	Frequencies of channels supported	Upper and lower frequency
	Frequency	488.0 MHz - 608.0 MHz
	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?	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?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

**Primary
Antenna**

Other Antenna Cost Not Listed

Name	Description
Antenna Delivery to Willis	See Willis Tower Preliminary Budget Overview WEST Tower RFS Antenna /Combiner System
RF Safety Coordination	See Willis Tower Preliminary Budget Overview WEST Tower RFS Antenna /Combiner System
Combiner Room Construction	See Willis Tower Preliminary Budget Overview WEST Tower RFS Antenna /Combiner System
Internal Transmission Line	See Willis Tower Preliminary Budget Overview WEST Tower RFS Antenna /Combiner System
Combiner Delivery to Willis	See Willis Tower Preliminary Budget Overview WEST Tower RFS Antenna /Combiner System
Combiner Installation and Commissioning	See Willis Tower Preliminary Budget Overview WEST Tower RFS Antenna /Combiner System
Combiner Module	See Willis Tower Preliminary Budget Overview WEST Tower RFS Antenna /Combiner System
Combiner Freight	See Willis Tower Preliminary Budget Overview WEST Tower RFS Antenna /Combiner System
Radome Modifications	See Willis Tower Preliminary Budget Overview WEST Tower RFS Antenna /Combiner System
Permitting	See Willis Tower Preliminary Budget Overview WEST Tower RFS Antenna /Combiner System
Transmission Line Installation	See Willis Tower Preliminary Budget Overview WEST Tower RFS Antenna /Combiner System
Antenna Mounts	See Willis Tower Preliminary Budget Overview WEST Tower RFS Antenna /Combiner System

Transmission Line Mounts	See Willis Tower Preliminary Budget Overview WEST Tower RFS Antenna /Combiner System
Tower Modifications	See Willis Tower Preliminary Budget Overview WEST Tower RFS Antenna /Combiner System
Equipment Storage	See Willis Tower Preliminary Budget Overview WEST Tower RFS Antenna /Combiner System
Outside Project Management	See Willis Tower Preliminary Budget Overview WEST Tower RFS Antenna /Combiner System
Transmission Line	See Willis Tower Preliminary Budget Overview WEST Tower RFS Antenna /Combiner System
Combiner Spine	See Willis Tower Preliminary Budget Overview WEST Tower RFS Antenna /Combiner System
Structional Engineering	See Willis Tower Preliminary Budget Overview WEST Tower RFS Antenna /Combiner System
RFR Measurements	See Willis Tower Preliminary Budget Overview WEST Tower RFS Antenna /Combiner System
Antenna Freight	See Willis Tower Preliminary Budget Overview WEST Tower RFS Antenna /Combiner System
Antenna Installation and Commissioning	See Willis Tower Preliminary Budget Overview WEST Tower RFS Antenna /Combiner System

Transmission Line

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

Auxiliary **Existing Transmission Line**
Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Use if main line fails
	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	4 1/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	100 feet per run

**Auxiliary
Transmission Line**

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Auxiliary (Backup)
	Description of Use	Use if main fails
	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	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	100 feet per run
	Justification for New Transmission Line	Additional power to antenna. See exhibit attached page 6

**Auxiliary
Transmission Line**

Other Transmission Line Expenses Not Listed

Name	Description
Electrician Hanging	Electrician to hang and remove old transmission lines.

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	4 1/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	100 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	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	100 feet per run
	Justification for New Transmission Line	Additional power to antenna. See exhibit attached page 6

Primary
Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Electrician Hanging	Electrician to hang and remove old transmission line

**Tower
Equipment
And
Rigging
Costs**

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

**Auxiliary
Tower**

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Auxiliary (Backup)
	Description of Use	Use if main tower fails
	Ownership	Leased
	Is this tower consider Complex?	Located on Building
	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?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1032960
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	41° 52' 44.0" N-
	Longitude (NAD83)	087° 38' 08.0" W-
	Overall Structure Height	1722.09 feet
	Support Structure Height	1435.35 feet

	Ground Elevation Above Mean Sea Level (AMSL)	595.14 feet
	Structure Type	BMAST - Building with Mast
	Tower Owner	233 Broadcast, LLC
	Date Constructed	09/30/2012

**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
48772	WPWR-TV	DTV
72115	WGN-TV	DTV
47906	KNBC	DTV
53971	WEBG	FM
71428	WCIU-TV	DTV
71425	WWME-CD	DTV
168662	WMEU-CD	DTV
10801	WFMT	FM
10802	WTTW	DTV
28621	WBMX	FM
51165	WGCI-FM	FM
70042	WLIT-FM	FM
6377	WTMX	FM
9613	WBBM-FM	FM
66978	WEDE-CD	DTV
73226	WLS-TV	DTV

70119	WSNS-TV	DTV
32334	WJYS	DTV
9617	WBBM-TV	DTV
71283	WCFS-FM	FM
73228	WLS-FM	FM
10981	WCPX-TV	DTV
74178	WKSC-FM	FM
22211	WFLD	DTV

Auxiliary Tower

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	No study needed
Tower Reinforcements	Please select whether tower reinforcements are needed:	Major Reinforcements needed

Auxiliary Tower

Tower Rigging Costs

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

Auxiliary Tower

Other Tower Expenses Not Listed

Information not provided.

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?	Located on Building
	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?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1032959
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	41° 52' 44.1" N-
	Longitude (NAD83)	087° 38' 10.2" W-
	Overall Structure Height	1729.97 feet
	Support Structure Height	1435.35 feet
	Ground Elevation Above Mean Sea Level (AMSL)	595.14 feet
	Structure Type	BTWR - Building with Tower

	Tower Owner	233 Broadcast, LLC
	Date Constructed	01/01/2002

**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
71425	WWME-CD	DTV
73226	WLS-TV	DTV
73228	WLS-FM	FM
168662	WMEU-CD	DTV
71283	WCFS-FM	FM
10981	WCPX-TV	DTV
9613	WBBM-FM	FM
70119	WSNS-TV	DTV
9617	WBBM-TV	DTV
53971	WEBG	FM
70042	WLIT-FM	FM
51165	WGCI-FM	FM
71428	WCIU-TV	DTV
74178	WKSC-FM	FM
47906	KNBC	DTV
48772	WPWR-TV	DTV
72115	WGN-TV	DTV
10802	WTTW	DTV
10801	WFMT	FM

6377	WTMX	FM
66978	WEDE-CD	DTV
28621	WBMX	FM
32334	WJYS	DTV
22211	WFLD	DTV

**Primary
Tower**

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	No study needed
Tower Reinforcements	Please select whether tower reinforcements are needed:	Major Reinforcements needed

**Primary
Tower**

Tower Rigging Costs

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

**Primary
Tower**

Other Tower Expenses Not Listed

Name	Description
SW Pole Material Removal and Disposal	Removal and disposal of remaining SW pole material
SW Pole Decommission Preparation Work	Estimated 10 nights of work for preparation.
WTTW Transmission Line Removal to Smoke Shaft	Estimated 5 nights of work to complete.
WTTW Antenna Removal	Helicopter not required. Estimated 4 nights.

Willis Tower Project Management	Willis Tower Project Management
WTTW Antenna Removal Engineering	Antenna Removal Engineering
WTTW T L Removal RF Safety Coordination	RF safety coordination during line removal to shaft
SW Pole Decommission Prep. Work RF Safety Coord.	RF safety coordination for SW pole decom. prep work
SW Pole Decommission Engineering	Pole Decommission Engineering
WTTW T L Removal to 100 in smoke shaft	Removal of line in shaft from 109 to 100.
WTTW Antenna Removal RF Safety Coordination	Antenna Removal RF Safety Coordination

**Outside
Professional**

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	500
	Explanation	Outside services, such as legal, engineering, consultant.
Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	No
	Prepare engineering section of Form FCC Construction Permit Application	No
	For Auxiliary Facility	N/A
	For Main Facility	N/A
	Prepare engineering section of 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
	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	Yes

	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	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	No
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**

Services not provided.

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?	No
Permit and Filing Costs	Local Zoning	No
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	Yes
	FCC License to Cover Application	No
	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?	No
	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?	No

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 ULXTE-20	\$962,028.00	\$1,047,363.88		\$632,557.26	
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	\$494,500.00	\$579,835.88	Whole system included	\$386,557.26	N/A
Other -- HVAC Service Type: C Size:20 (Other)	\$142,528.00	\$142,528.00	N/A	N/A	N/A
Other Electrical Service: Electricians to remove old equipment and install new equipment. Relocate or remove and reinstall all electric work. To remove existing and hang new transmission line. To remove offsite all old equipment.	\$290,000.00	\$290,000.00	Cost - Site work Changed, Access to loading dock and elevator, late arrival of equipment due to tight schedule working around clock. See quote from Okeh Electric revision #1 uploaded	\$246,000.00	N/A

Great Lakes Plumbing	\$35,000.00	\$35,000.00	N/A	N/A	N/A
Auxiliary Transmitter ULXTE-20	\$494,500.00	\$552,003.92		\$368,002.60	
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	\$494,500.00	\$552,003.92	Whole system included	\$368,002.60	N/A
Sub-total	\$1,456,528.00	\$1,599,367.80	N/A	\$1,000,559.86	N/A
Total for all systems	\$5,720,087.64	\$4,034,757.44	N/A	\$1,650,201.14	N/A

Components

Actual Information	
Description	File Name
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	<p>Component Description: 1/3 down payment on Primary transmitter cost of \$579,835.88</p> <p>Amount: \$193,278.63</p> <p>Component Description: 2nd installment of the primary transmitter cost</p> <p>Amount: \$193,278.63</p>
Other -- HVAC Service Type: C Size:20 (Other)	Information not provided.

Other Electrical Service: Electricians to remove old equipment and install new equipment. Relocate or remove and reinstall all electric work. To remove existing and hang new transmission line. To remove offsite all old equipment.	Component Description: Amount:	Moving electrical line \$6,000.00
	Component Description: Amount:	Disconnect old transmitters and reconnect new transmitters \$132,125.00
	Component Description: Amount:	3rd installment - 2nd transmitter removal \$33,750.00
	Component Description: Amount:	final installment of transmitter install and disconnect, etc. \$35,000.00
	Component Description: Amount:	the next progress billing on the electrical work performed for the transmitters \$39,125.00
Great Lakes Plumbing	Information not provided.	

UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	<table> <tr> <td data-bbox="707 91 1098 291"> Component Description: Amount: </td><td data-bbox="1098 91 1428 291"> 2nd installment of the Auxiliary Transmitter cost \$184,001.30 </td></tr> <tr> <td data-bbox="707 291 1098 645"> Component Description: Amount: </td><td data-bbox="1098 291 1428 645"> 1/3 of auxiliary transmitter cost of \$552,003.92 \$184,001.30 </td></tr> </table>	Component Description: Amount:	2nd installment of the Auxiliary Transmitter cost \$184,001.30	Component Description: Amount:	1/3 of auxiliary transmitter cost of \$552,003.92 \$184,001.30
Component Description: Amount:	2nd installment of the Auxiliary Transmitter cost \$184,001.30				
Component Description: Amount:	1/3 of auxiliary transmitter cost of \$552,003.92 \$184,001.30				

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 PEPL24C	\$1,422,242.97	\$1,302,902.97		\$588,831.61	
Antenna Installation and Commissioning	<i>\$99,154.87</i>	\$99,154.87	WTTWs portion of installation	\$99,154.87	N/A
Structional Engineering	<i>\$150,000.00</i>	\$150,000.00	N/A	\$113,099.30	N/A
Combiner Spine	<i>\$20,000.00</i>	\$20,000.00	N/A	N/A	N/A
Transmission Line	<i>\$111,298.10</i>	\$111,298.10	N/A	\$111,298.10	N/A
Outside Project Management	<i>\$92,500.00</i>	\$92,500.00	N/A	\$2,167.97	N/A
Equipment Storage	<i>\$1,000.00</i>	\$1,000.00	N/A	N/A	N/A
Tower Modifications	<i>\$200,000.00</i>	\$200,000.00	N/A	N/A	N/A
Transmission Line Mounts	<i>\$15,000.00</i>	\$15,000.00	N/A	N/A	N/A
Antenna Mounts	<i>\$15,000.00</i>	\$15,000.00	N/A	N/A	N/A
Transmission Line Installation	<i>\$75,000.00</i>	\$75,000.00	N/A	\$32,011.28	N/A
Permitting	<i>\$20,000.00</i>	\$20,000.00	N/A	N/A	N/A
Radome Modifications	<i>\$50,000.00</i>	\$50,000.00	N/A	N/A	N/A

Combiner Freight	\$5,000.00	\$5,000.00	N/A	N/A	N/A
Combiner Module	\$60,980.00	\$60,980.00	N/A	\$60,980.00	Price increases since the cost estimates were entered.
Combiner Installation and Commissioning	\$9,062.50	\$9,062.50	N/A	N/A	N/A
Combiner Room Construction	\$45,000.00	\$45,000.00	See Willis Tower Preliminary Budget Overview WEST Tower RFS Antenna /Combiner System	\$23,712.59	N/A
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$0.00	N/A	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$0.00	N/A	N/A	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$0.00	N/A	N/A	N/A

Sweep test of existing antenna	\$6,730.00	\$0.00	N/A	N/A	N/A
UHF - High Power, Side Mount, broadband panel, 24 bay,, 193 kW input, directional,, elliptically or circularly polarized	\$120,862.50	\$120,862.50	See Willis Tower Preliminary Budget Overview WEST Tower RFS Antenna /Combiner System	\$120,862.50	N/A
Combiner Delivery to Willis	\$10,000.00	\$10,000.00	N/A	N/A	N/A
Internal Transmission Line	\$75,000.00	\$75,000.00	N/A	N/A	N/A
RFR Measurements	\$5,000.00	\$5,000.00	N/A	N/A	N/A
Antenna Freight	\$12,500.00	\$12,500.00	N/A	N/A	N/A
RF Safety Coordination	\$75,000.00	\$75,000.00	N/A	N/A	N/A
Antenna Delivery to Willis	\$10,000.00	\$10,000.00	N/A	N/A	N/A
Combiner Commissioning	\$9,062.50	\$9,062.50	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$9,062.50	N/A

Antenna Commissioning	\$16,482.50	\$16,482.50	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$16,482.50	N/A
Auxiliary Antenna PHP24C	\$476,156.67	\$464,166.67		\$50,852.91	
Sweep test of existing antenna	\$6,730.00	\$0.00	N/A	N/A	N/A
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$0.00	N/A	N/A	N/A
East RFS System	\$464,166.67	\$464,166.67	N/A	\$50,852.91	N/A
Sub-total	\$1,898,399.64	\$1,767,069.64	N/A	\$639,684.52	N/A
Total for all systems	\$5,720,087.64	\$4,034,757.44	N/A	\$1,650,201.14	N/A

Components

Actual Information	
Description	File Name
Antenna Installation and Commissioning	<p>Component Description: Antenna installation portion of this invoice</p> <p>Amount: \$99,154.87</p>

Structional Engineering	<div data-bbox="711 174 1372 443"> <p>Component Description: As stated on cover letter, requesting payment of one penny short of invoice total due to vendor error.</p> <p>Amount: \$39,377.81</p> </div> <div data-bbox="711 555 1361 790"> <p>Component Description: Structural Engineering costs associated with West and East tower work</p> <p>Amount: \$28,908.74</p> </div> <div data-bbox="711 891 1372 1126"> <p>Component Description: WTTW share of WEST RFS Antenna/Combiner System, details attached</p> <p>Amount: \$10,019.00</p> </div> <div data-bbox="711 1227 1366 1507"> <p>Component Description: Structural engineering: Ruck inv 1901410 & 1901411 and ERE LLC inv 1366 &1342</p> <p>Amount: \$27,431.25</p> </div> <div data-bbox="711 1608 1310 1809"> <p>Component Description: Structural Engineering portion of this invoice.</p> <p>Amount: \$7,362.50</p> </div>
Combiner Spine	Information not provided.

Transmission Line	<p>Component Description: 50% of various Transmission Line costs as indicated by line number on quotation #20061310</p> <p>Amount: \$111,298.10</p>
Outside Project Management	<p>Component Description: Outside Project Mgmt: ERE LLC invoices 1359, 1337, 1351</p> <p>Amount: \$812.51</p> <p>Component Description: Shared cost EAST RFS System, back up attached</p> <p>Amount: \$65.29</p> <p>Component Description: Share of West RFS Antenna/Combiner System, details attached</p> <p>Amount: \$1,290.17</p>
Equipment Storage	Information not provided.
Tower Modifications	Information not provided.
Transmission Line Mounts	Information not provided.
Antenna Mounts	Information not provided.

Transmission Line Installation	Component Description:	Transmission line installation portion of this invoice.
	Amount:	\$29,261.28
	Component Description:	Transmission Line Installation, detail sheet from vendor ERE,LLC inv #1331
	Amount:	\$2,750.00
Permitting	Information not provided.	
Radome Modifications	Information not provided.	
Combiner Freight	Information not provided.	
Combiner Module	Component Description:	50% Combiner, Module from manufacturer quotation #20061310
	Amount:	\$60,980.00
Combiner Installation and Commissioning	Information not provided.	
Combiner Room Construction	Component Description:	Combiner Room Construction: ISI invoices 6018a, 6018, 6019 and Ruck invoice 1901429
	Amount:	\$23,712.59
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.	

Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
New combiner, cost per channel (without antenna)	Information not provided.
Sweep test of existing antenna	Information not provided.
UHF - High Power, Side Mount, broadband panel, 24 bay,, 193 kW input, directional,, elliptically or circularly polarized	<div> <div> Component Description: </div> <div> 50% UHF High Power, Side Mount, Broadband panel, 24Bay 193kW input, Directional, Elliptically or circular polarized. Quotation #20061310 </div> </div> <div> <div> Amount: </div> <div> \$120,862.50 </div> </div>
Combiner Delivery to Willis	Information not provided.
Internal Transmission Line	Information not provided.
RFR Measurements	Information not provided.
Antenna Freight	Information not provided.
RF Safety Coordination	Information not provided.
Antenna Delivery to Willis	Information not provided.
Combiner Commissioning	<div> <div> Component Description: </div> <div> 50% Combiner Commissioning </div> </div> <div> <div> Amount: </div> <div> \$9,062.50 </div> </div>
Antenna Commissioning	<div> <div> Component Description: </div> <div> 50% Antenna Commissioning </div> </div> <div> <div> Amount: </div> <div> \$16,482.50 </div> </div>

Sweep test of existing antenna	Information not provided.
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.
East RFS System	<div> <div> Component Description: </div> <div> Shared UHF Channel Combiner </div> </div> <div> <div> Amount: </div> <div> \$50,852.91 </div> </div>

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	\$30,200.00	\$29,000.00		\$0.00	
Electrican Hanging	<i>\$10,000.00</i>	\$10,000.00	N/A	N/A	N/A
Rigid Transmission Line - copper, 6 1/8"	\$20,200.00	\$19,000.00	N/A	N/A	N/A
Auxiliary Transmission Line	\$30,200.00	\$29,000.00		\$0.00	
Electrican Hanging	<i>\$10,000.00</i>	\$10,000.00	N/A	N/A	N/A
Rigid Transmission Line - copper, 6 1/8"	\$20,200.00	\$19,000.00	N/A	N/A	N/A
Sub-total	\$60,400.00	\$58,000.00	N/A	\$0.00	N/A
Total for all systems	\$5,720,087.64	\$4,034,757.44	N/A	\$1,650,201.14	N/A

Components

Information not provided.

Cost
Information

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower BTWR	\$1,349,500.00	\$507,500.00		\$0.00	
WTTW Antenna Removal	<i>\$40,000.00</i>	\$40,000.00	N/A	N/A	N/A
WTTW Antenna Removal RF Safety Coordination	<i>\$10,000.00</i>	\$10,000.00	N/A	N/A	N/A
WTTW T L Removal to 100 in smoke shaft	<i>\$40,000.00</i>	\$40,000.00	N/A	N/A	N/A
SW Pole Decommission Preparation Work	<i>\$50,000.00</i>	\$50,000.00	N/A	N/A	N/A
SW Pole Decommission Engineering	<i>\$32,500.00</i>	\$32,500.00	N/A	N/A	N/A
SW Pole Material Removal and Disposal	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Willis Tower Project Management	<i>\$27,500.00</i>	\$27,500.00	N/A	N/A	N/A
WTTW T L Removal RF Safety Coordination	<i>\$12,500.00</i>	\$12,500.00	N/A	N/A	N/A

WTTW Antenna Removal Engineering	\$30,000.00	\$30,000.00	N/A	N/A	N/A
SW Pole Decommission Prep. Work RF Safety Coord.	\$12,500.00	\$12,500.00	N/A	N/A	N/A
WTTW Transmission Line Removal to Smoke Shaft	\$50,000.00	\$50,000.00	N/A	N/A	N/A
Tower Helicopter Lift	\$177,500.00	\$177,500.00	N/A	N/A	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$0.00	N/A	N/A	N/A
Major tower reinforcement /modifications	\$421,000.00	\$0.00	N/A	N/A	N/A
Auxiliary Tower BMAST	\$842,000.00	\$0.00		\$0.00	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$0.00	N/A	N/A	N/A
Major tower reinforcement /modifications	\$421,000.00	\$0.00	N/A	N/A	N/A
Sub-total	\$2,191,500.00	\$507,500.00	N/A	\$0.00	N/A

Total for all systems	\$5,720,087.64	\$4,034,757.44	N/A	\$1,650,201.14	N/A
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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	\$107,150.00	\$96,750.00		\$9,956.76	
RF Exposure Measurements	\$21,050.00	\$20,000.00	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	\$274.50	N/A
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$2,105.00	\$2,000.00	N/A	\$576.00	N/A
Project management of the transition	\$79,000.00	\$70,000.00	N/A	\$8,557.26	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$549.00	N/A
Sub-total	\$107,150.00	\$96,750.00	N/A	\$9,956.76	N/A
Total for all systems	\$5,720,087.64	\$4,034,757.44	N/A	\$1,650,201.14	N/A

Components

Actual Information	
Description	File Name
RF Exposure Measurements	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	<div> <div> Component Description: Amount: </div> <div> ungranted repack applications \$50.50 </div> </div> <div> <div> Component Description: Amount: </div> <div> repack process and timing \$168.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> regarding repack transition report and form 2100 schedule 387 availability \$56.00 </div> </div>
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	<div> <div> Component Description: Amount: </div> <div> preparation of construction permit application and form 399 application \$498.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> review construction permit application \$78.00 </div> </div>

Project management of the transition		
	Component Description:	Email regarding auction closing and channel reassignment
	Amount:	\$50.50
	Component Description:	Various FCC repack related topics
	Amount:	\$6,810.26
	Component Description:	Analysis and review of FCC online databases, etc.
	Amount:	\$39.00
	Component Description:	Preparation of 2100 CP application and maximization application
	Amount:	\$1,657.50
	Component Description:	email on FCC post-auction transition procedures and payments
	Amount:	\$50.50

Prepare and or review
reimbursement form

Component Description:

Prepare & review
reimbursement form

Amount:

\$112.00

Component Description:

Analysis of
reimbursement form

Amount:

\$78.00

Component Description:

Review form 399
estimates

Amount:

\$336.00

Component Description:

Email regarding
form 1876

Amount:

\$101.00

Component Description:

Analysis and
research for
reimbursement form

Amount:

\$156.00

Cost
Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$6,110.00	\$6,070.00		\$0.00	
Develop and air announcement of upcoming channel change	<i>\$5,000.00</i>	\$5,000.00	N/A	N/A	N/A
Equipment Storage	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$0.00</i>	\$0.00	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
Sub-total	\$6,110.00	\$6,070.00	N/A	\$0.00	N/A
Total for all systems	\$5,720,087.64	\$4,034,757.44	N/A	\$1,650,201.14	N/A

Components

Information not provided.

Cost Information	Grand Total		
		Predetermined Cost Estimate	Estimated Cost
			Actual Cost
	Total for all systems	\$5,720,087.64	\$4,034,757.44
			\$1,650,201.14

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

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

<p>8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Michael Tomparry , Tomparry . <i>Director of Engineering</i></p> <p>12/30/2019</p>

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.

<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>	

Attachments