



(REFERENCE COPY - Not for submission)

# DTV Engineering STA Application

File Number: **0000086727** | Submit Date: **10/16/2019** | Call Sign: **WGBO-DT** | Facility ID: **12498** | FRN: **0001531391**  
 State: **Illinois** | City: **JOLIET**  
 Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **10/18/2019** | Expiration Date: **04/18/2020**  
 Filing Status: **InActive**

**General Information**

Section	Question	Response
---------	----------	----------

**Fees, Waivers, and Exemptions**

Section	Question	Response
<b>Fees</b>	Is the applicant exempt from FCC application Fees?	No
	Indicate reason for fee exemption:	
<b>Waivers</b>	Does this filing request a waiver of the Commission's rule(s)?	No
	Total number of rule sections involved in this waiver request:	

Application Type	Fee Code	Fee Amount
Engineering STA	MGT	\$200.00
<b>Total</b>		<b>\$200.00</b>

**Applicant Information**

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

<b>Applicant</b>	<b>Address</b>	<b>Phone</b>	<b>Email</b>	<b>Applicant Type</b>
<b>WGBO LICENSE PARTNERSHIP, G.P.</b> Doing Business As: WGBO LICENSE PARTNERSHIP, G.P.	Christopher G. Wood 5999 CENTER DRIVE LOS ANGELES, CA 90045 United States	+1 (310) 348-3600	CWOOD@UNIVISION.NET	General Partnership

---

**Authorization Holder Name**

Check box if the Authorization Holder name is being updated because of the sale (or transfer of control) of the Authorization(s) to another party and for which proper Commission approval has not been received or proper notification provided.

**Contact  
Representatives  
(2)**

Contact Name	Address	Phone	Email	Contact Type
<b>MATTHEW S. DELNERO</b> COVINGTON & BURLING LLP	ONE CITYCENTER 850 TENTH STREET, NW WASHINGTON, DC 20001 United States	+1 (202) 662- 5543	MDELNERO@COV. COM	Legal Representative
<b>Karl D Lahm , P.E .</b> Broadcast Transmission Services, LLC	PO Box 147 Rapid City, MI 49676 United States	+1 (312) 961- 6256	karl@amfmtv-rf.com	Technical Representative

**Channel and Facility Information**

Section	Question	Response
<b>Proposed Community of License</b>	Facility ID	12498
	State	Illinois
	City	JOLIET
	DTV Channel	35
	Designated Market Area	Chicago
<b>Facility Type</b>	Facility Type	Commercial
	Station Type	Main
<b>Zone</b>	Zone	1

**Antenna Location Data**

Section	Question	Response
<b>Antenna Structure Registration</b>	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1009012
<b>Coordinates (NAD83)</b>	Latitude	41° 53' 56.1" N+
	Longitude	087° 37' 23.2" W-
	Structure Type	BTWR-Building with TOWER /ANTENNA on top
	Overall Structure Height	459.0 meters
	Support Structure Height	337.4 meters
	Ground Elevation (AMSL)	180.7 meters
<b>Antenna Data</b>	Height of Radiation Center Above Ground Level	437.5 meters
	Height of Radiation Center Above Average Terrain	437 meters
	Height of Radiation Center Above Mean Sea Level	618.2 meters
	Effective Radiated Power	290 kW

**Antenna  
Technical Data**

Section	Question	Response
<b>Antenna Type</b>	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1005769
<b>Antenna Manufacturer and Model</b>	Manufacturer:	Dielectric
	Model	TUF-C4-12/48H-2
	Rotation	0 degrees
	Electrical Beam Tilt	1
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
<b>DTV and DTS: Elevation Pattern</b>	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	No
	Uploaded file for elevation antenna (or radiation) pattern data	

**Directional Antenna Relative Field Values (Pre-rotated Pattern)**

Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	0.596	90	0.39	180	0.76	270	0.737
10	0.477	100	0.477	190	0.761	280	0.761
20	0.379	110	0.587	200	0.72	290	0.735
30	0.329	120	0.756	210	0.74	300	0.767
40	0.368	130	0.773	220	0.871	310	0.889
50	0.398	140	0.995	230	0.955	320	0.987
60	0.393	150	0.985	240	0.948	330	0.979
70	0.342	160	0.883	250	0.843	340	0.889
80	0.331	170	0.784	260	0.741	350	0.748

**Additional Azimuths**

Degree	V <sub>A</sub>
77	0.328
265	0.725
204	0.713
145	1

**Certification**

Section	Question	Response
<p><b>General Certification Statements</b></p>	<p>The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by authorization or otherwise, and requests an Authorization in accordance with this application (See Section 304 of the Communications Act of 1934, as amended.).</p>	
	<p>The Applicant certifies that neither the Applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to §5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. §862, because of a conviction for possession or distribution of a controlled substance. This certification does not apply to applications filed in services exempted under §1.2002(c) of the rules, 47 CFR . See §1.2002(b) of the rules, 47 CFR §1.2002(b), for the definition of "party to the application" as used in this certification §1.2002 (c). The Applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.</p>	
<p><b>Authorized Party to Sign</b></p>	<p><b>FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID</b></p> <p>Upon grant of this application, the Authorization Holder may be subject to certain construction or coverage requirements. Failure to meet the construction or coverage requirements will result in automatic cancellation of the Authorization. Consult appropriate FCC regulations to determine the construction or coverage requirements that apply to the type of Authorization requested in this application.</p> <p>WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. Code, Title 18, §1001) AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, §312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, §503).</p>	
	<p>I certify that this application includes all required and relevant attachments.</p>	<p>Yes</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><b>Christopher G. Wood</b>  <i>SVP ASSOC GEN COUN            GOV AND REG AFF</i></p> <p>10/16/2019</p>

## Attachments

File Name	Uploaded By	Attachment Type	Description
<a href="#"><u>Dielectric TUF-C4 Antenna Data.pdf</u></a>	Applicant	All Purpose	Dielectric antenna data & patterns
<a href="#"><u>WGBO STA Extension Request Narrative (FINAL).pdf</u></a>	Applicant	General Information	Narrative in Support of STA Extension Request
<a href="#"><u>WGBO STA Site &amp; RF Exposure Analysis.docx</u></a>	Applicant	All Purpose	WGBO Site & RF Exposure Analysis
<a href="#"><u>WGBO STA TVStudy Interference Analysis.pdf</u></a>	Applicant	All Purpose	TVStudy Interference Analysis