



(REFERENCE COPY - Not for submission)

DTV Engineering STA Application

File Number: **0000029012** | Submit Date: **07/20/2017** | Call Sign: **WLYH-TV** | Facility ID: **23338** | FRN: **0024403065**
 State: **Pennsylvania** | City: **LANCASTER**
 Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **08/07/2017** | Expiration Date:
 Filing Status: **InActive**

General Information

Section	Question	Response
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Fees, Waivers, and Exemptions

Section	Question	Response
Fees	Is the applicant exempt from FCC application Fees?	No
	Indicate reason for fee exemption:	
Waivers	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	\$190.00
Total		\$190.00

**Applicant
Information**

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
HSH LANCASTER (WLYH) LICENSEE, LLC Applicant Doing Business As: HSH LANCASTER (WLYH) LICENSEE, LLC	Clyde Vanel 201 Massachusetts Avenue NE C-1 Washington, DC 20002 United States	+1 (212) 402-5472	clydevanel@vanellaw. com	Other

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
Esq Colby M. May M. May , Esq . Law Offices of Colby M. May ESQ	Colby May PO Box 15473 Washington, DC 20003 United States	+1 (202) 544- 5171	cmmay@maylawoffices. com	Legal Representative
Clyde Vanel Vanel Howard Stirk Holdings	201 Massachusetts Avenue Suite C-3 Washington, DC 20002 United States	+1 (202) 546- 5400	clydevanel@vanellaw. com	Technical Representative

Channel and Facility Information

Section	Question	Response
Facility ID	23338	
State	Pennsylvania	
City	LANCASTER	
DTV Channel	23	
Facility Type	Facility Type	Commercial
	Station Type	Main
Zone	Zone	1

Primary station proposed to be rebroadcast:

Facility Id	Call Sign	City	State
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Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1036777
Coordinates (NAD83)	Latitude	40° 15' 45.0" N+
	Longitude	076° 27' 50.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	324.7 meters
	Support Structure Height	304.6 meters
	Ground Elevation (AMSL)	267.6 meters
Antenna Data	Height of Radiation Center Above Ground Level	280 meters
	Height of Radiation Center Above Average Terrain	381 meters
	Height of Radiation Center Above Mean Sea Level	547.6 meters
	Effective Radiated Power	500 kW

**Antenna
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	41227
Antenna Manufacturer and Model	Manufacturer:	DIE
	Model	TFU-24DSB-W
	Rotation	0 degrees
	Electrical Beam Tilt	0.75
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
DTV and DTS: Elevation Pattern	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	0.922	90	0.241	180	0.922	270	1
10	0.845	100	0.253	190	0.975	280	0.985
20	0.758	110	0.302	200	0.997	290	0.951
30	0.68	120	0.397	210	0.99	300	0.925
40	0.605	130	0.51	220	0.959	310	0.929
50	0.51	140	0.605	230	0.929	320	0.959
60	0.397	150	0.68	240	0.925	330	0.99
70	0.302	160	0.758	250	0.951	340	0.997
80	0.253	170	0.845	260	0.985	350	0.975

Additional Azimuths

Degree	V _A
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Certification

Section	Question	Response
<p>General Certification Statements</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>Authorized Party to Sign</p>	<p>FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID</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>Clyde Vanel Vanel <i>Authorized Manager</i></p> <p>07/20/2017</p>

Attachments

File Name	Uploaded By	Attachment Type	Description
WXBU STA Request Explanation.pdf	Applicant	All Purpose	WXBU - Engineering STA Request Explanation