Approved by OMB (Office of Management and Budget) 3060-0837
September 2014

Federal Communications Commission

(REFERENCE COPY - Not for submission)

License To Cover for DTS Application

File Number: **0000123122** | Submit Date: **09/30/2020** | Call Sign: **WVER** | Facility ID: **69946** | FRN: **0029968765** | State: **Vermont** | City: **RUTLAND**

Service: **DTS** | Purpose: **License To Cover 0000122607** | Status: **Granted** | Status Date: **10/02/2020** | Expiration Date: **04/01/2023** | Filing Status: **Active**

General Information

Section	Question	Response
Attachments	Are attachments (other than associated schedules) being filed with this application?	No

Fees, Waivers, and Exemptions

Section	Question	Response
Waivers	Does this filing request a waiver of the Commission's rule(s)?	No
	Total number of rule sections involved in this waiver request:	
	Are the frequencies or parameters requested in this filing covered by grandfathered privileges, previously approved by waiver, or functionally integrated with an existing station?	No

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
VERMONT ETV, INC. Doing Business As: Vermont PBS	Jack Efromson 10 East Allen Street Suite 202 Winooski, VT 05404 United States	+1 (802) 655-4800	Jefromson@vermontpbs.org	Not-for-Profit

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 (3)

Contact Name	Address	Phone	Email	Contact Type
Brad C. Deutsch *Counsel* Foster Garvey P.C.	1000 Potomac Street, NW Suite 200 Washington, DC 20007 United States	+1 (202) 298-1793	brad.deutsch@foster.com	Legal Representative
Jack Efromson *CTO* Vermont ETV, Inc.	Jack Efromson 10 East Allen St, Suite 202 Winooski, VT 05404 United States	+1 (802) 655-4800	jefromson@vermontpbs.org	Technical Representative
Rajat Mathur , P. E . *Consulting Engineer* Hammett & Edison, Inc.	470 3rd St W Sonoma, CA 95476 United States	+1 (707) 996-5200	rmathur@h-e.com	Consulting Engineer

Alien Ownership

Question	Response
1) Is the applicant a foreign government or the representative of any foreign government as specified in Section 310(a) of the Communications Act?	No
2) Is the applicant an alien or the representative of an alien? (Section 310(b)(1))	No
3) Is the applicant a corporation, or non-corporate entity, that is organized under the laws of any foreign government? (Section 310(b)(2))	No
4) Is the applicant an entity of which more than one-fifth of the capital stock, or other equity or voting interest, is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any entity organized under the laws of a foreign country? (Section 310(b)(3))	No
5) Is the applicant directly or indirectly controlled by any other entity of which more than one-fourth of the capital stock, or other equity or voting interest, is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any entity organized under the laws of a foreign country? (Section 310(b)(4))	No
6) Has the applicant received a declaratory ruling(s) under Section 310(b)(4) of the Communications Act?	No
7) In connection with this application, is the applicant filing a foreign ownership Petition for Declaratory Ruling pursuant to Section 310(b)(4) of the Communications Act?	No

Basic Qualifying Questions

Section	Question	Response
Revoked Application	Has the Applicant or any party to this application had any FCC station Authorization revoked or had any application for an initial, modification or renewal of FCC station Authorization denied by the Commission?	No
State or Federal Convictions	Has the Applicant or any party to this application, or any party directly or indirectly controlling the Applicant, ever been convicted of a felony by any state or federal court?	No

Channel and Facility Information

Section	Question	Response
Proposed Community of License	Facility ID	69946
	State	Vermont
	City	RUTLAND
	DTS Channel	10
	Designated Market Area	BURLINGTON-PLATTSBURGH
Facility Type	Facility Type	Noncommercial Educational
	Station Type	Main
Zone	Zone	2

DTS Reference Point

Section	Question	Response
Construction Permit File Number and Facility ID	File Number for Current Authorized Service Area:	0000079969
	Facility ID	69946
Coordinates (NAD83)	Latitude	43° 39' 31.5" N+
	Longitude	073° 06' 23.6" W-

Site 1: Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1210439
Coordinates (NAD83)	Latitude	43° 39' 31.5" N+
	Longitude	073° 06' 23.6" W-
	Structure Type	GTOWER-Guyed Structure Used for Communication Purposes
	Overall Structure Height	87.2 meters
	Support Structure Height	74.7 meters
	Ground Elevation (AMSL)	602.0 meters
Antenna Data	Height of Radiation Center Above Ground Level	80.9 meters
	Height of Radiation Center Above Average Terrain	425.6 meters
	Height of Radiation Center Above Mean Sea Level	682.9 meters
	Effective Radiated Power	15 kW

Site 1: Antenna Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	1002410
Antenna Manufacturer and Model	Manufacturer:	DIE
	Model	THV-6A10/VP-R C160 SM
	Electrical Beam Tilt	1.5
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Elliptical
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?	
	Rotation	0 degrees
	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	0.332	**90**	0.919	**180**	0.996	**270**	0.792
10	0.346	**100**	0.958	**190**	0.998	**280**	0.707
20	0.379	**110**	0.982	**200**	1	**290**	0.613
30	0.439	**120**	0.995	**210**	1	**300**	0.52
40	0.52	**130**	1	**220**	0.995	**310**	0.439
50	0.613	**140**	1	**230**	0.982	**320**	0.379
60	0.707	**150**	0.998	**240**	0.958	**330**	0.346
70	0.792	**160**	0.996	**250**	0.919	**340**	0.332
80	0.864	**170**	0.995	**260**	0.864	**350**	0.33

Additional Azimuths

Degree	V_A

Site 1: Operating Constants

Section	Question	Response
Transmitter and Transmission Line	Transmitter Power Output (TPO): *(average power at input to transmission line, after any filter attached to the transmitter, if used)*	3.60 dBk 2.29 kW
	Transmission Line Loss (LL):	0.94 dB
	Antenna Input Power (AIP):	2.66 dBk
	Max. Antenna Power Gain (AG)	9.1 dB
	Effective Radiated Power (ERP) *(Average Power)*	11.76 dBk 15 kW

Site 2: Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1060721
Coordinates (NAD83)	Latitude	43° 26' 15.0" N+
	Longitude	072° 27' 06.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	129.1 meters
	Support Structure Height	116.0 meters
	Ground Elevation (AMSL)	872.0 meters
Antenna Data	Height of Radiation Center Above Ground Level	81 meters
	Height of Radiation Center Above Average Terrain	648.9 meters
	Height of Radiation Center Above Mean Sea Level	953.0 meters
	Effective Radiated Power	5.0 kW

Site 2: Antenna Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	1003638
Antenna Manufacturer and Model	Manufacturer:	KAT
	Model	75010242 Array
	Electrical Beam Tilt	Not Applicable
	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?	
	Rotation	340 degrees
	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	0.998	**90**	0.003	**180**	0.084	**270**	0.023
10	0.948	**100**	0.032	**190**	0.077	**280**	0.076
20	0.838	**110**	0.045	**200**	0.057	**290**	0.162
30	0.684	**120**	0.041	**210**	0.032	**300**	0.282
40	0.513	**130**	0.024	**220**	0.004	**310**	0.433
50	0.347	**140**	0.021	**230**	0.024	**320**	0.6
60	0.211	**150**	0.044	**240**	0.040	**330**	0.762
70	0.112	**160**	0.067	**250**	0.040	**340**	0.895
80	0.043	**170**	0.081	**260**	0.024	**350**	0.979

Additional Azimuths

Degree	V_A
358	1
356	1

Site 2: Operating Constants

Section	Question	Response
Transmitter and Transmission Line	Transmitter Power Output (TPO): *(average power at input to transmission line, after any filter attached to the transmitter, if used)*	-7.08 dBk 0.196 kW
	Transmission Line Loss (LL):	1.33 dB
	Antenna Input Power (AIP):	-8.41 dBk
	Max. Antenna Power Gain (AG)	15.4 dB
	Effective Radiated Power (ERP) *(Average Power)*	6.99 dBk 5.0 kW

Site 4: Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	No
	ASR Number	
Coordinates (NAD83)	Latitude	42° 51' 06.1" N+
	Longitude	072° 33' 38.8" W-
	Structure Type	BTWR-Building with TOWER /ANTENNA on top
	Overall Structure Height	30.5 meters
	Support Structure Height	9.1 meters
	Ground Elevation (AMSL)	88.4 meters
Antenna Data	Height of Radiation Center Above Ground Level	24.4 meters
	Height of Radiation Center Above Average Terrain	-142.9 meters
	Height of Radiation Center Above Mean Sea Level	112.8 meters
	Effective Radiated Power	0.32 kW

Site 4: Antenna Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	20786
Antenna Manufacturer and Model	Manufacturer:	SCA
	Model	CL-713
	Electrical Beam Tilt	Not Applicable
	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?	
	Rotation	330 degrees
	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	1	**90**	0.01	**180**	0.03	**270**	0.01
10	0.945	**100**	0.01	**190**	0.03	**280**	0.01
20	0.81	**110**	0.01	**200**	0.03	**290**	0.01
30	0.59	**120**	0.01	**210**	0.02	**300**	0.01
40	0.325	**130**	0.01	**220**	0.01	**310**	0.05
50	0.01	**140**	0.03	**230**	0.01	**320**	0.38
60	0.01	**150**	0.03	**240**	0.01	**330**	0.606
70	0.01	**160**	0.03	**250**	0.01	**340**	0.8
80	0.01	**170**	0.03	**260**	0.01	**350**	0.945

Additional Azimuths

Degree	V_A

Site 4: Operating Constants

Section	Question	Response
Transmitter and Transmission Line	Transmitter Power Output (TPO): *(average power at input to transmission line, after any filter attached to the transmitter, if used)*	-13.01 dBk 0.05 kW
	Transmission Line Loss (LL):	0.94 dB
	Antenna Input Power (AIP):	-13.95 dBk
	Max. Antenna Power Gain (AG)	9.0 dB
	Effective Radiated Power (ERP) *(Average Power)*	-4.95 dBk 0.32 kW

Site 5: Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	No
	ASR Number	
Coordinates (NAD83)	Latitude	44° 07' 28.7" N+
	Longitude	072° 28' 52.2" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	6.1 meters
	Support Structure Height	6.1 meters
	Ground Elevation (AMSL)	628.8 meters
Antenna Data	Height of Radiation Center Above Ground Level	6.1 meters
	Height of Radiation Center Above Average Terrain	204.3 meters
	Height of Radiation Center Above Mean Sea Level	634.9 meters
	Effective Radiated Power	0.1 kW

Site 5: Antenna Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	20786
Antenna Manufacturer and Model	Manufacturer:	SCA
	Model	CL-713
	Electrical Beam Tilt	Not Applicable
	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?	
	Rotation	350 degrees
	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	1	**90**	0.01	**180**	0.03	**270**	0.01
10	0.945	**100**	0.01	**190**	0.03	**280**	0.01
20	0.81	**110**	0.01	**200**	0.03	**290**	0.01
30	0.59	**120**	0.01	**210**	0.02	**300**	0.01
40	0.325	**130**	0.01	**220**	0.01	**310**	0.05
50	0.01	**140**	0.03	**230**	0.01	**320**	0.38
60	0.01	**150**	0.03	**240**	0.01	**330**	0.606
70	0.01	**160**	0.03	**250**	0.01	**340**	0.8
80	0.01	**170**	0.03	**260**	0.01	**350**	0.945

Additional Azimuths

Degree	V_A

Site 5: Operating Constants

Section	Question	Response
Transmitter and Transmission Line	Transmitter Power Output (TPO): *(average power at input to transmission line, after any filter attached to the transmitter, if used)*	-18.54 dBk 0.014 kW
	Transmission Line Loss (LL):	0.46 dB
	Antenna Input Power (AIP):	-19.00 dBk
	Max. Antenna Power Gain (AG)	9.0 dB
	Effective Radiated Power (ERP) *(Average Power)*	-10.00 dBk 0.1 kW

Parties to the Application (0)

Information not provided.

Attributable Interest

Section	Question	Response
Equity and Financial Interests	Applicant certifies that equity and financial interests not set forth by the applicant parties are non-attributable.	
Other Authorizations	Does the applicant or any party to the application have an attributable interest in any other broadcast station(s).	

License Certifications

Section	Question	Response
Main Studio Location	The main studio location complies with 47 C.F.R. Section 73.1125.	Yes
	Country	US
	PO Box	
	Address Line 1	204 Ethan Allen Avenue
	Address Line 2	
	City	Colchester
	State	VT
	Zip Code	05446
	Phone	+1 (802) 655-4800
Constructed Facility	The facility constructed as authorized in the underlying construction permit.	Yes
Special Operating Conditions	The facility was constructed in compliance with all special operating conditions, terms, and obligations described in the construction permit. **An exhibit may be required.** Review the underlying construction permit.	Yes
Transmitter	The transmitter complies with 47 C.F.R. Section 73.1660.	Yes
Changing Transmitter Power Output	Is this application being filed to authorize a change in transmitter power output caused by the replacement of an omnidirectional antenna with another omnidirectional antenna or an alteration of the transmission line system? See 47 C.F.R. Sections 73.1690(c)(1) and (c)(10).	No
Replacing a Directional Antenna	Is this application being filed pursuant to 47 C.F.R. Section 73.1690(c)(3) to replace a directional antenna with another directional antenna?	No
	The proposed theoretical antenna pattern complies with 47 C.F.R. Section 73.1690(c)(3).	
Use a formerly licensed main facility as an auxiliary facility	Is this application being filed pursuant to 47 C.F.R. Section 73.1675(c)(1) to request authorization to use a formerly licensed main facility as an auxiliary facility and/or change the ERP of the proposed auxiliary facility?	No
	The proposed auxiliary facility complies with 47 C.F.R. Section 73.1675(a).	
	Would a Commission grant of Authorization for this location be an action which may have a significant environmental effect? (See 47 C.F.R. Section 1.1306)	

Legal Certifications

Section	Question	Response
Obligations	Licensee/Permittee certifies that all terms, conditions, and obligations set forth in the underlying construction permit have been fully met.	Yes
	Licensee/Permittee certifies that, apart from changes already reported, no cause or circumstance has arisen since the grant of the underlying construction permit which would result in any statement or representation contained in the construction permit application to be now incorrect.	Yes
Character Issues	Applicant certifies that neither applicant nor any party to the application has or had any interest in, or connection with: (a) any broadcast application in any proceeding where character issues were left in unresolved or were resolved adversely against the applicant or party to the application; or (b) any pending broadcast application in which character issues have been raised.	Yes
Adverse Findings	Has the Applicant or any party to this application had an adverse finding or an adverse final action taken by any court or administrative body in a civil or criminal proceeding brought under any law related to the following: any felony; mass media-related antitrust or unfair competition; fraudulent statements to another governmental unit; or discrimination?	No

Certification

Section	Question	Response
General Certification Statements	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.).	
	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.	
Authorized Party to Sign	**FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID** 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. 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).	
	I certify that this application includes all required and relevant attachments.	Yes
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**Steve Ferreira** *Chief Finance and Administration Officer* 09/30/2020

Attachments

File Name	Uploaded By	Attachment Type	Description