



(REFERENCE COPY - Not for submission)

LPTV Translator Engineering STA Application

File Number: 0000193347 | Submit Date: 06/15/2022 | Call Sign: W15EF-D | Facility ID: 69172 | FRN: 0001910066 | State: North Carolina | City: SPARTA

Service: LPT | Purpose: Engineering STA | Status: Granted | Status Date: 07/11/2022 | Expiration Date: 12/15/2022

Filing Status: Active

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?	Yes
	Indicate reason for fee exemption:	The licensee is a government entity operating a non-commercial educational station.
Waivers	Does this filing request a waiver of the Commission's rule(s)?	No
	Total number of rule sections involved in this waiver request:	

**Applicant
Information**

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
UNIVERSITY OF NORTH CAROLINA Doing Business As: UNIVERSITY OF NORTH CAROLINA	PO Box 14900 RESEARCH TRIANGLE PARK, NC 27709 United States	+1 (919) 549-7000	fcc_notice@pbsnc. org	Government Entity

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
Joseph M. Davis , P.E. . <i>Consulting Engineer</i> Chesapeake RF Consultants, LLC	207 Old Dominion Road Yorktown, VA 23692 United States	+1 (703) 650-9600	Joseph.Davis@RF-consultants. com	Technical Representative
DONALD W SMITH UNIVERSITY OF NORTH CAROLINA	PO Box 14900 RESEARCH TRIANGLE PARK, NC 27709 United States	+1 (919) 549-7025	DSMITH@PBSNC.ORG	Technical Representative
MARCUS W TRATHEN BROOKS, PIERCE, ET AL.	PO Box 1800 RALEIGH, NC 27602 United States	+1 (919) 839-0300	MTRATHEN@BROOKSPIERCE. COM	Legal Representative

Channel and Facility Information

Section	Question	Response
Facility ID	69172	
State	North Carolina	
City	SPARTA	
LPT Channel	15	

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	36° 31' 12.5" N+
	Longitude	081° 07' 24.7" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	35.1 meters
	Support Structure Height	35.1 meters
	Ground Elevation (AMSL)	1081 meters
Antenna Data	Height of Radiation Center Above Ground Level	31 meters
	Height of Radiation Center Above Mean Sea Level	1112 meters
	Effective Radiated Power	0.41 kW

Antenna
Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1009670
Antenna Manufacturer and Model	Manufacturer:	KAT
	Model	2x2 750 10325
	Rotation	160 degrees
	Electrical Beam Tilt	Not Applicable
	Mechanical Beam Tilt	3
	toward azimuth	160
	Polarization	Elliptical
Elevation Radiation 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	
	Out-of-Channel Emission Mask:	Full Service

Directional Antenna Relative Field Values (Pre-rotated Pattern)

Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	0.999	90	0.494	180	0.152	270	0.489
10	0.93	100	0.355	190	0.108	280	0.655
20	0.798	110	0.234	200	0.032	290	0.819
30	0.796	120	0.141	210	0.101	300	0.952
40	0.914	130	0.108	220	0.129	310	0.993
50	0.994	140	0.127	230	0.114	320	0.918
60	0.954	150	0.104	240	0.143	330	0.78
70	0.822	160	0.033	250	0.234	340	0.764
80	0.655	170	0.106	260	0.35	350	0.902

Additional Azimuths

Degree	V _A
52	0.997
336	0.744
308	0.994
24	0.774
1	1

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.	David Crabtree <i>Chief Executive Officer</i> 06/15/2022

Attachments

File Name	Uploaded By	Attachment Type	Description
<u>W15EF-D STA Request.pdf</u>	Applicant	General Information	STA Exhibit