



(REFERENCE COPY - Not for submission)

LPTV Engineering STA Application

File Number: 0000158186 | Submit Date: 08/30/2021 | Call Sign: WDHC-LD | Facility ID: 70498 | FRN: 0019440601 |

State: Kentucky | City: LEBANON

Service: LPD | Purpose: Engineering STA | Status: Granted | Status Date: 11/04/2021 | 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	MGL	\$270.00
Total		\$270.00

Applicant  
Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
R & F COMMUNICATIONS INC. Applicant Doing Business As: R & F COMMUNICATIONS INC.	Kenneth Forte 108 WEST COLLEGE ST. DICKSON, TN 37055 United States	+1 (615) 397-5871	KWFORTE@WDKN.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
<b>Greg Best Best</b> Greg Best Consulting, Inc.	16100 Outlook Ave. Stilwell, KS 66085 United States	+1 (816) 792- 2913	gbconsulting54@gmail. com	Technical Representative
<b>Larry Perry Perry</b> Larry Perry and Associates	Larry Perry 11464 Saga Lane Suite 400 Knoxville, TN 37931 United States	+1 (865) 927- 8474	larryperry@att.net	Legal Representative

Channel and Facility Information

Section	Question	Response
Facility ID	70498	
State	Kentucky	
City	LEBANON	
LPD Channel	6	

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° 04' 07.5" N+
	Longitude	087° 23' 19.7" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	15.2 meters
	Support Structure Height	15.2 meters
	Ground Elevation (AMSL)	244 meters
Antenna Data	Height of Radiation Center Above Ground Level	10.7 meters
	Height of Radiation Center Above Mean Sea Level	254.7 meters
	Effective Radiated Power	.505 kW

Antenna  
Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	1008329
Antenna Manufacturer and Model	Manufacturer:	KAT
	Model	HDCA5
	Rotation	90 degrees
	Electrical Beam Tilt	Not Applicable
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
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:	Stringent

Directional Antenna Relative Field Values (Pre-rotated Pattern)

Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	1.000	90	0.01	180	0.14	270	0.01
10	0.944	100	0.01	190	0.14	280	0.01
20	0.813	110	0.01	200	0.14	290	0.04
30	0.641	120	0.03	210	0.12	300	0.11
40	0.460	130	0.06	220	0.09	310	0.28
50	0.280	140	0.09	230	0.06	320	0.46
60	0.11	150	0.12	240	0.03	330	0.641
70	0.04	160	0.14	250	0.01	340	0.813
80	0.01	170	0.14	260	0.01	350	0.944

Additional Azimuths

Degree	V <sub>A</sub>
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## 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	<b>FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID</b> 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.	<b>Kenneth Forte Forte</b> <i>President</i>  08/30/2021

Attachments

File Name	Uploaded By	Attachment Type	Description
<a href="#">RFR Exhibit .pdf</a>	Applicant	General Information	Exhibit that identifies the proposed facility has no RF exposure hazard that would trigger an environmental assessment.
<a href="#">Screen Shot 2021-08-18 at 3.40.56 PM.pdf</a>	Applicant	General Information	Photo of the tower on which the proposed antenna is to be located at 35 ft height.
<a href="#">STA Exhibit.pdf</a>	Applicant	All Purpose	STA Exhibit providing information about the proposed facility.
<a href="#">TPO Calculation WDHC STA.pdf</a>	Applicant	General Information	Exhibit that identifies the Effective Radiated Power of the proposed facility. Antenna radiation center of beam is aimed at 90 degrees with respect to true north.
<a href="#">tvixstudy.pdf</a>	Applicant	General Information	Interference analysis for the proposed facility indicating that no objectionable interference is caused or received.
<a href="#">WDHC STA CONTOUR.pdf</a>	Applicant	General Information	Exhibit that identifies the protected contour of the proposed facility if it were classified as an LPTV authorized facility.