Approved by OMB (Office of Management and Budget) 3060-0016
December 2014

Federal Communications Commission

(REFERENCE COPY - Not for submission)

Displacement for LPTV Station Construction Permit Application

File Number: **0000071788** | Submit Date: **04/18/2019** | Call Sign: **K28QJ-D** | Facility ID: **187827** | FRN: **0028408979**
State: **Minnesota** | City: **DULUTH**
Service: **LPD** | Purpose: **Displacement BNPDTL-20100720AJW** | Status: **Granted** | Status Date: **10/08/2019**
Expiration Date: **09/06/2022** | Filing Status: **InActive**

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?	

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
EDGE SPECTRUM, INC. Doing Business As: EDGE SPECTRUM, INC.	7829 CENTER BLVD. SE NO. 190 SNOQUALMIE, WA 98065 United States	+1 (206) 963-2198	VF@EDGESPECTRUM.COM	Corporation

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
JIm McDonald *Engineering Consultant* B. W. St. Clair	117 Esat Eleventh St. Loveland, CO 80537 United States	+1 (970) 593-8443	jim@windriverbroadcast.com	Technical Representative
Caleb Weiss *President* ARK Mediacom, Inc.	PO Box 4655 Cedar Hill, TX 75106 United States	+1 (972) 293-2256	cweiss@arkmediacom.tv	Legal Representative

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?	
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
Facility ID	187827	
State	Minnesota	
City	DULUTH	
LPD Channel	28	

Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1024490
Coordinates (NAD83)	Latitude	46° 47' 07.0" N+
	Longitude	092° 07' 16.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	248.9 meters
	Support Structure Height	216.9 meters
	Ground Elevation (AMSL)	375.7 meters
Antenna Data	Height of Radiation Center Above Ground Level	90 meters
	Height of Radiation Center Above Mean Sea Level	465.7 meters
	Effective Radiated Power	15 kW

Antenna Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	20757
Antenna Manufacturer and Model	Manufacturer:	SCA
	Model	4X3KBBU
	Rotation	270 degrees
	Electrical Beam Tilt	1.5
	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:	Full Service

Directional Antenna Relative Field Values (Pre-rotated Pattern)

Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	1	**90**	0.957	**180**	0.061	**270**	0.957
10	0.958	**100**	0.973	**190**	0.082	**280**	0.886
20	0.757	**110**	0.873	**200**	0.212	**290**	0.792
30	0.74	**120**	0.674	**210**	0.277	**300**	0.791
40	0.88	**130**	0.486	**220**	0.338	**310**	0.897
50	0.897	**140**	0.338	**230**	0.486	**320**	0.88
60	0.791	**150**	0.277	**240**	0.674	**330**	0.74
70	0.792	**160**	0.212	**250**	0.873	**340**	0.757
80	0.886	**170**	0.082	**260**	0.973	**350**	0.958

Additional Azimuths

Degree	V_A

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).	

Construction Permit Certifications

Section	Question	Response
Environmental Effect	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)	No
Broadcast Facility	The proposed facility complies with all of the following applicable rule sections. 47 C.F.R. Sections 74.709, 74.793 (e), 74.793(f), 74.793(g), 74.793(h)	Yes

Legal Certifications

Section	Question	Response
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.	
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?	
Program Service Certification	Applicant certifies that it is cognizant of and will comply with its obligations as a Commission licensee to present a program service responsive to the issues of public concern facing the station's community of license and service area.	
Local Public Notice	Applicant certifies that it has or will comply with the public notice requirements of 47 C.F.R. Section 73.3580.	Yes
Equal Employment Opportunity (EEO)	If the applicant proposes to employ five or more full-time employees, applicant certifies that it is filing simultaneously with this application a Model EEO Program Report.	N/A

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.	**Vernon Fotheringham** *CEO* 04/18/2019

Attachments

File Name	Uploaded By	Attachment Type	Description
K28QJ-D - LMS-0000071788 - Canadian Referral Letter - 6-25-19.docx	Internal	All Purpose	
K46MH-D Ch 28 Engineering Statement.pdf	Applicant	Technical Certifications	K46MH Ch 28 Engineering Statement