

FOR
FCC
USE
ONLY

FCC 346

APPLICATION FOR AUTHORITY TO CONSTRUCT OR MAKE CHANGES IN A LOW POWER TV, TV TRANSLATOR OR TV BOOSTER STATION

FOR COMMISSION USE ONLY
FILE NO.

Section I - General Information

1.	Legal Name of the Applicant		
	Mailing Address		
	City	State or Country (if foreign address)	ZIP Code
	Telephone Number (include area code)		E-Mail Address (if available)
	FCC Registration Number	Call Sign	Facility Identifier
2.	Contact Representative (if other than Applicant)		Firm or Company Name
	Mailing Address		
	City	State or Country (if foreign address)	ZIP Code
	Telephone Number (include area code)		E-Mail Address (if available)

3. If this application has been submitted without a fee, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114):

Governmental Entity Noncommercial Educational Licensee Other _____

4. Service Type:

a. Low Power Television TV Translator TV Booster
 Digital Low Power TV Digital TV Translator

b. Community of License:

City	State
------	-------

5. **Application Purpose.**

<input type="checkbox"/> New station	<input type="checkbox"/> Major Modification of construction permit
<input type="checkbox"/> Major Change in licensed facility	<input type="checkbox"/> Minor Modification of construction permit
<input type="checkbox"/> Minor Change in licensed facility	<input type="checkbox"/> Amendment to pending application
<input type="checkbox"/> Digital Flash Cut	<input type="checkbox"/> Digital Companion Channel
<input type="checkbox"/> Displacement	

Exhibit No.

a. File number of original construction permit or pending application: _____ Not applicable

if an amendment, **submit as an Exhibit** a listing by Section and Question Number the portions of the pending application that are being revised.

Exhibit No.

Section III - Engineering (Digital)

TECHNICAL SPECIFICATIONS Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

TECH BOX

1. Channel: _____
2. Translator Input Channel No. _____
3. Station proposed to be rebroadcast:

Call Sign	City	State	Channel

4. Antenna Location Coordinates: (NAD 27)

 _____ ° _____ ' _____ " N S Latitude

 _____ ° _____ ' _____ " E W Longitude

5. Antenna Structure Registration Number: _____

 Not applicable

See Explanation in Exhibit No.

 FAA Notification Filed with FAA

6. Antenna Location Site Elevation Above Mean Sea Level: _____ meters
7. Overall Tower Height Above Ground Level: _____ meters
8. Height of Radiation Center Above Ground Level: _____ meters
9. Maximum Effective Radiated Power (ERP): _____ kW
10. Transmitter Output Power: _____ kW

11. a. Transmitting Antenna: Nondirectional Directional Directional composite

Manufacturer	Model

- b. Electrical Beam Tilt: _____ degrees Not applicable
- c. Mechanical Beam Tilt: _____ Degrees at _____ Degrees Post Rotation /X/Not Applicable



Relative Field Values

[FCC](#) > [Media Bureau](#) > [MB-CDBS](#) > [CDBS Public Access](#) > [Antenna Search](#)

[Help](#) [site map](#)

Antenna Make		Model		Service		Antenna Id					
SCA		4DR-4-2HW		LD		20741					
Antenna relative field values:											
0°	1	10°	0.945	20°	0.83	30°	0.795	40°	0.925	50°	0.995
60°	0.975	70°	0.92	80°	0.835	90°	0.715	100°	0.58	110°	0.41
120°	0.135	130°	0.02	140°	0.02	150°	0.02	160°	0.02	170°	0.02
180°	0.02	190°	0.02	200°	0.02	210°	0.02	220°	0.02	230°	0.02
240°	0.13	250°	0.395	260°	0.56	270°	0.71	280°	0.825	290°	0.915
300°	0.975	310°	0.983	320°	0.895	330°	0.784	340°	0.827	350°	0.955
Additional Azimuths:											

[Relative Field Polar Plot](#)

[FCC Home](#) | [Search](#) | [Updates](#) | [E-Filing](#) | [Initiatives](#) | [For Consumers](#) | [Find People](#)

Please send comments via standard mail to the Federal Communications Commission, Consumer and Governmental Affairs Bureau, 445 12th Street, S.W., Washington, D.C., 20554. Questions can also be answered by calling the FCC's National Call Center, toll free, at 1-888-Call FCC (1-888-225-5322).

Federal Communications Commission
445 12th Street SW
Washington, DC 20554
[More FCC Contact Information...](#)

Phone: 1-888-CALL-FCC (1-888-225-5322)
TTY: 1-888-TELL-FCC (1-888-835-5322)
Fax: 1-866-418-0232
E-mail: fccinfo@fcc.gov

- [Privacy Policy](#)
- [Website Policies & Notices](#)
- [Required Browser Plug-ins](#)
- [Freedom of Information Act](#)

c. Directional Antenna Relative Field Values:

Rotation: _____ ° No rotation N/A (Nondirectional)

Degree	Value	Degree	Value	Degree	Value	Degree	Value	Degree	Value	Degree	Value
0		60		120		180		240		300	
10		70		130		190		250		310	
20		80		140		200		260		320	
30		90		150		210		270		330	
40		100		160		220		280		340	
50		110		170		230		290		350	
Additional Azimuths											

d. Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt? Yes No

If Yes, attach an Exhibit (see instructions for details).

Exhibit No.

NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.

12. **Out-of-Channel Emission Mask:** Simple Stringent Full Service

CERTIFICATION

13. **Interference.** 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), 74.794(b) and 73.1030. Yes No

See Explanation in Exhibit No.

14. **Environmental Protection Act.** The proposed facility is excluded from environmental processing under 47 C.F.R. Section 1.1306 (i.e., the facility will not have a significant environmental impact and complies with the maximum permissible radio frequency electromagnetic exposure limits for controlled and uncontrolled environments). Unless the applicant can determine RF compliance. **An Exhibit is required.** Yes No

See Explanation in Exhibit No.

Exhibit No.

By checking "Yes" above, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radio frequency electromagnetic exposure in excess of FCC guidelines.

PREPARER'S CERTIFICATION ON PAGE 8 MUST BE COMPLETED AND SIGNED.

15. **Channels 52-59.** If the proposed channel is within channels 52-59, the applicant certifies compliance with the following requirements, as applicable:

- The applicant is applying for a digital companion channel for which no suitable channel from channel 2-51 is available.
- Pursuant to Section 74.786(d), the applicant has notified, within 30 days of filing this application, all commercial wireless licensees of the spectrum comprising the proposed TV channel and the first adjacent channels thereto, for which the proposed digital LPTV or TV translator antenna site lies inside the licensed geographic boundaries of the wireless licensees or within 75 miles and 50 miles, respectively, of the geographic boundaries of co-channel and adjacent-channel wireless licensees.

16. **Channels 60-69.** If the proposed channel is within channels 60-69, the applicant certifies compliance with the following requirements, as applicable:

- Pursuant to Section 74.786(e), the applicant has notified, within 30 days of filing this application, all commercial wireless licensees of the spectrum comprising the proposed TV channel and the first adjacent channels thereto, for which the proposed digital LPTV or TV translator antenna site lies inside the licensed geographic boundaries of the wireless licensees or within 75 miles and 50 miles, respectively, of the geographic boundaries of co-channel and adjacent-channel wireless licensees.
- Pursuant to Section 74.786(e), the applicant proposing operation on channel 63, 64, 68 and 69 ("public safety channels") has secured a coordinated spectrum use agreement(s) with 700 MHz public safety regional planning committee(s) and state frequency administrator(s) of the region(s) and state(s) within which the antenna site of the digital LPTV or TV translator station is proposed to locate, and those adjoining regions and states with boundaries within 75 miles of the proposed station location.
- Pursuant to Section 74.786(e), an applicant for a channel adjacent to channel 63, 64, 68 or 69 has notified, within 30 days of filing this application, the 700 MHz public safety regional planning committee(s) and state administrator(s) of the region and state containing the proposed digital LPTV or TV translator antenna site and regions and states whose geographic boundaries lie within 50 miles of the proposed LPTV or TV translator antenna site.

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name		Relationship to Applicant (e.g., Consulting Engineer)	
Signature		Date	
Mailing Address			
City	State or Country (if foreign address)		ZIP Code
Telephone Number (include area code)		E-Mail Address (if available)	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

TECHNICAL EXHIBIT
2018 DISPLACEMENT/FILING WINDOW FOR LPTV
AND TV TRANSLATOR STATIONS

FACILITY: K44GH-D, FI 130185
ALEXANDRIA, MN
EDGE SPECTRUM, INC.
Existing FCC file number BLDTL-20120523ADB

Pursuant to the LPTV/Translator displacement/filing window of 2018 arising from the incentive auction 600 MHz TV band repack, the within application is filed to change the facility as follows: change out of new core output channel to UHF 28, FULL SERVICE mask. Antenna make and model is SCA 4DT-4-2HW to be located on same tower as licensed - ASR 1023384 at 103.0 m AGL, specified rotation 225°.

NIER is less than 5% of the limit for this service; no new tower construction is planned. Using the specified equipment, pattern and ERP, the application is in compliance with all pertinent portions of §74.793 with respect to all existing part 73 and part 74 licenses, permits and applications known as of the time of filing; however, as a station in the LPTV or TX service which is displaced into the core or otherwise required to modify its facilities in accordance with the presence of an incoming repacked full service station assigned to its previous channel, the within applicant agrees, if necessary, to not operate on the channel or with the service proposed in the within application until any potentially mutually interfering repacked full service station or stations have left their channels pursuant to the relevant phase assignment(s).

J. R. McDonald