

SECTION III - LICENSE APPLICATION ENGINEERING DATA

Name of Applicant

Saga Communications of New England, LLC

PURPOSE OF AUTHORIZATION APPLIED FOR: (check one)

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Station License

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Direct Measurement of Power

1. Facilities authorized in construction permit

Call Sign	File No. of Construction Permit (if applicable)	Frequency (kHz)	Hours of Operation	Power in kilowatts	
WLZX		1600 kHz	Daytime Only	Night N/A	Day 2.5 kW

2. Station location

State Massachusetts	City or Town East Longmeadow
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3. Transmitter location

State Massachusetts	County Hampden	City or Town East Longmeadow	Street address (or other identification) 45 Fisher Avenue
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4. Main studio location

State Massachusetts	County Hampden	City or Town Northampton	Street address (or other identification) 15 Hampton Avenue
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5. Remote control point location (specify only if authorized directional antenna)

State	County	City or Town	Street address (or other identification)
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6. Has type-approved stereo generating equipment been installed?

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Yes

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No

7. Does the sampling system meet the requirements of 47 C.F.R. Section 73.68?

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Yes

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No

☒

Not Applicable

Attach as an Exhibit a detailed description of the sampling system as installed.

Exhibit No.

8. Operating constants:

RF common point or antenna current (in amperes) without modulation for Night System N/A	RF common point or antenna current (in amperes) without modulation for day system 3.2 amperes
Measured antenna or common point resistance (in ohms) at operating frequency Night N/A Day 243.7 ohms	Measured antenna or common point reactance (in ohms) at operating frequency Night N/A Day +j 88.1 ohms

Antenna indications for directional operation

Towers	Antenna monitor Phase reading(s) in degrees		Antenna monitor sample current ratio(s)		Antenna base currents	
	Night	Day	Night	Day	Night	Day

Manufacturer and type of antenna monitor:

SECTION III - Page 2

9. Description of antenna system (if directional antenna is used, the information requested below should be given for each element of the array. Use separate sheets if necessary.)

Type Radiator guyed, uniform, cross-section steel tower mounted on a grounded concrete base pier and insulator.	Overall height in meters of radiator above base insulator, or above base, if grounded. 51.2 meters	Overall height in meters above ground (without obstruction lighting) 52.1 meters	Overall height in meters above ground (include obstruction lighting) 52.1 meters	If antenna is either top loaded or sectionalized, describe fully in an Exhibit. Exhibit No.
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Excitation



Series
(Insulated)



Shunt
(Grounded)

ASR(NDA D1) = Not Required

Geographic coordinates to nearest second. For directional antenna give coordinates of center of array. For single vertical radiator give tower location.

North Latitude	42 °	04 '	25 "	West Longitude	72 °	31 '	29 "
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If not fully described above, attach as an Exhibit further details and dimensions including any other antenna mounted on tower and associated isolation circuits.

Exhibit No.
See Vertical Plan

Also, if necessary for a complete description, attach as an Exhibit a sketch of the details and dimensions of ground system.

Exhibit No.

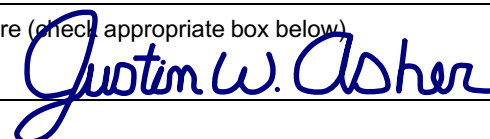
10. In what respect, if any, does the apparatus constructed differ from that described in the application for construction permit or in the permit?

No changes to the AM tower have been implemented other than the replacement of the W253CD.C FM Translator antenna as authorized under Construction Permit BPFT-20170807ABM.

11. Give reasons for the change in antenna or common point resistance.

This Form 302-AM is being filed to reflect a new antenna resistance measurement taken after the recent tower modification associated with, and as a §1.30003(a) condition of licensing for, W253CD.C - East Longmeadow, MA; for the replacement of the FM Translator antenna as authorized under Construction Permit BPFT-20170807ABM.

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

Name (Please Print or Type) Justin W. Asher	Signature (check appropriate box below) 
Address (include ZIP Code) Asher Broadcast Consulting, LLC 579 Babcock Road Bronson, MI 49028-9347	Date November 6, 2017 Telephone No. (Include Area Code) 1(202)875-2986



Technical Director



Registered Professional Engineer



Chief Operator



Technical Consultant



Other (specify)

East Longmeadow, MA - WLZX(AM)

Vertical Plan of Antenna System

W253CD Antenna
Nicom BKG77/1-DA
114.3 meters AMSL
HAAT: N/A (Fill-In Status)

116.4 meters AMSL
(382 feet AMSL)

Antenna COR Height
50.0 meters AGL
(164 feet AGL)

Overall Tower Height
52.1 meters AGL
(171 feet AGL)

51.2 meters
(168 feet)

Isocoupler
& Feedline

0.9 meters (3 feet)

Ground Elevation: 64.3 meters AMSL (211 feet AMSL)

Address: 45 Fisher Avenue

City: East Longmeadow

County: Hampton

State: Massachusetts

Latitude (D M S)

Longitude (D M S)

NAD 27 datum values: 42 04 25.45796

72 31 28.98794

NAD 83 datum values: 42 04 25.80000

72 31 27.30000

Antenna Structure Registration

Not Required

Drawing
Is Not
To Scale

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