

**SECTION III - LICENSE APPLICATION ENGINEERING DATA**

Name of Applicant

**Saga Communications of New England, LLC**

PURPOSE OF AUTHORIZATION APPLIED FOR: (check one)

Station License & Correction  
of Coordinates (< 3 seconds)

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	
				Night	Day
<b>WHNP</b>		<b>1600 kHz</b>	<b>Daytime Only</b>	<b>N/A</b>	<b>2.5 kW</b>

**2. Station location**

State <b>Massachusetts</b>	City or Town <b>East Longmeadow</b>
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**3. Transmitter location**

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

State <b>Massachusetts</b>	County <b>Hampden</b>	City or Town <b>Northampton</b>	Street address (or other identification) <b>15 Hampton Avenue</b>
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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?



Yes



No

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



Yes



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 <b>N/A</b>	RF common point or antenna current (in amperes) without modulation for day system <b>3.07 amperes</b>
Measured antenna or common point resistance (in ohms) at operating frequency Night <b>N/A</b> Day <b>266 ohms</b>	Measured antenna or common point reactance (in ohms) at operating frequency Night <b>N/A</b> Day <b>+j 255 ohms</b>

**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:

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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



Shunt

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 addition of the W286DB.C FM Translator antenna and transmission line as authorized under Construction Permit BPFT-20161011AFH. However, a correction of coordinates of one second longitude for the AM station is requested.

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, W286DB.C - East Longmeadow, MA for the addition of the FM Translator antenna and transmission line as authorized under Construction Permit BPFT-20161011AFH.

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 January 31, 2017  Telephone No. (Include Area Code) 1(202)875-2986



Technical Director



Registered Professional Engineer



Chief Operator



Technical Consultant



Other (specify)

**Exhibit 13.1a**  
**Copy of USGS**  
**Topographic Map**

**Existing WHNP(AM) Site**

	<u>Latitude (D M S)</u>	<u>Longitude (D M S)</u>
NAD 27 datum values:	42 04 25.45796	72 31 28.98794
NAD 83 datum values:	42 04 25.80000	72 31 27.30000

211 ft / 64 m

*WHNP(AM) - East Longmeadow, MA*  
*Copy of USGS Topographic Map*  
*from BPFT-20161011AFH*  
*(Public Record Copy)*

0 0.15 0.3 mi

**USGS**  
The National Map

# Exhibit 13.1b Copy of USGS Aerial Photograph

## Existing WHNP(AM) Site

	<u>Latitude (D M S)</u>	<u>Longitude (D M S)</u>
NAD 27 datum values:	42 04 25.45796	72 31 28.98794
NAD 83 datum values:	42 04 25.80000	72 31 27.30000

▲ 211 ft / 64 m

*WHNP(AM) - East Longmeadow, MA  
Copy of USGS Aerial Photograph  
from BPFT-20161011AFH  
(Public Record Copy)*



0 100 200ft

## Exhibit 13.2 Vertical Plan of Antenna System

THE SITE IS LOCATED AT 45 FISHER AVENUE;

THE CITY OF EAST LONGMEADOW; HAMPDEN COUNTY; THE STATE OF MASSACHUSETTS.

Antenna Structure Registration No.

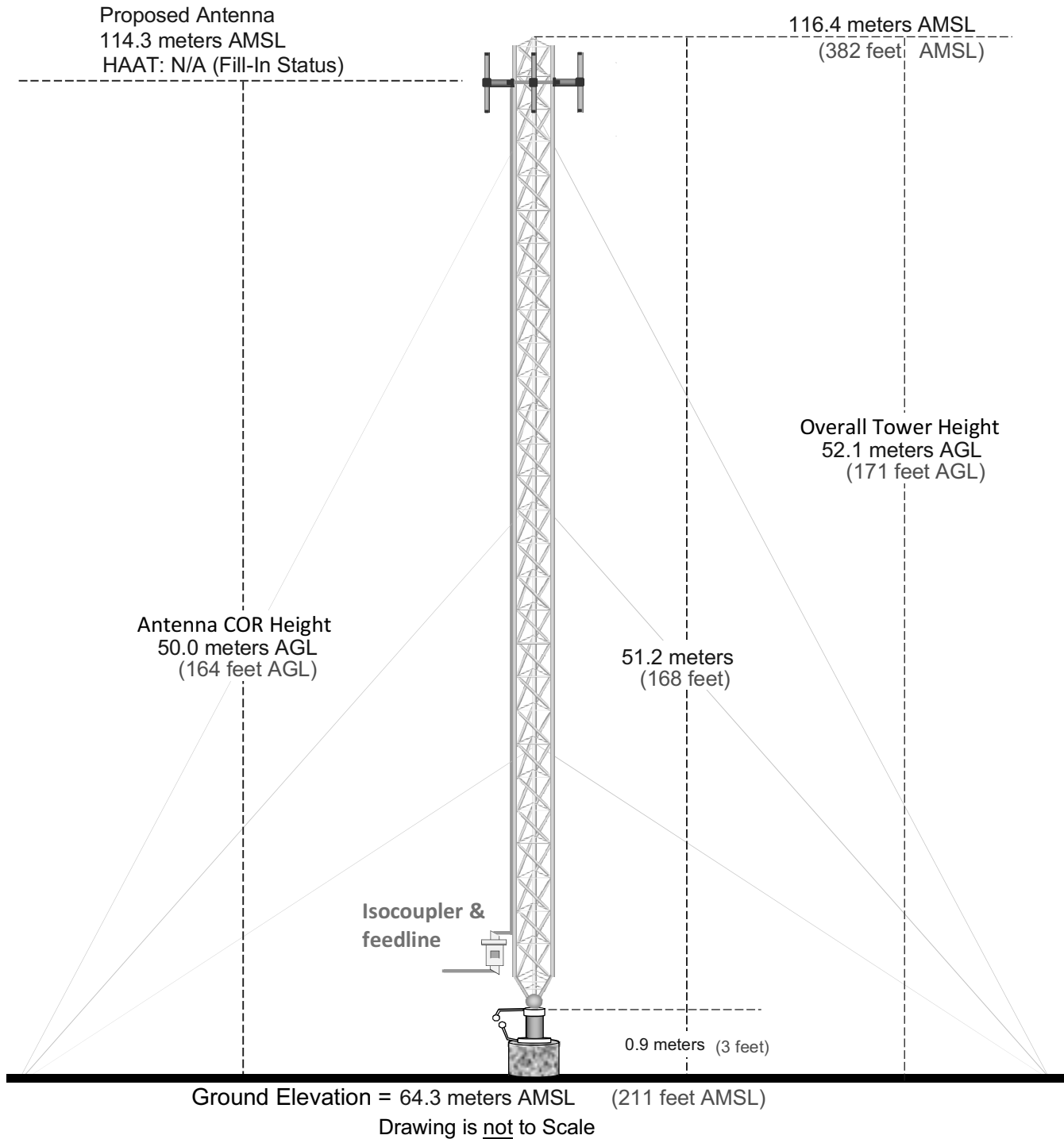
**Not Required**

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



WHNP(AM) - East Longmeadow, MA  
Copy of Vertical Plan from BPFT-20161011AFH  
(Public Record Copy)