

SECTION III - LICENSE APPLICATION ENGINEERING DATA

Name of Applicant

Jackson Radio Works, Inc.

PURPOSE OF AUTHORIZATION APPLIED FOR: (check one)

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Station License

☒

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
WIBM		1450 kHz	Unlimited	0.810 kW	0.810 kW

2. Station location

State Michigan	City or Town Jackson
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3. Transmitter location

State Michigan	County Jackson	City or Town Jackson	Street address (or other identification) on Dettman Road, just north of the railroad tracks
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4. Main studio location

State Michigan	County Jackson	City or Town Jackson	Street address (or other identification) on Dettman Road, just north of the railroad tracks
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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 4.56 amperes	RF common point or antenna current (in amperes) without modulation for day system 4.56 amperes
Measured antenna or common point resistance (in ohms) at operating frequency Night 39 ohms Day 39 ohms	Measured antenna or common point reactance (in ohms) at operating frequency Night +j 39.2 ohms Day +j 39.2 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:

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9. Description of antenna system ((f 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 concrete base pier and insulator	Overall height in meters of radiator above base insulator, or above base, if grounded. 45.7 meters	Overall height in meters above ground (without obstruction lighting) 46.6 meters	Overall height in meters above ground (include obstruction lighting) 46.6 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/N1) = 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 °	14 '	13 "	West Longitude	84 °	21 '	52 "
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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 radiating base insulated tower have been implemented other than the addition of the common (diplexed) W268CA and W270CJ FM Translator antenna and isolation circuitry as authorized under W268CA - Jackson, MI Construction Permit BNPFT-20130808AAV and W270CJ - Jackson, MI Construction Permit BNPFT-20130808AAQ. In addition, a correction of one (1) second Latitude is also requested here-in.

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 modifications associated with, and as a \$73.1692(a) condition of licensing for W268CA - Jackson, MI Construction Permit BNPFT-20130808AAV and W270CJ - Jackson, MI Construction Permit BNPFT-20130808AAQ.

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) P.O. Box 220 385 Airport Drive Coldwater, MI 49036	Date March 27, 2014 Telephone No. (Include Area Code) 1(517)278-7339



Technical Director



Registered Professional Engineer



Chief Operator



Technical Consultant



Other (specify)

Jackson, MI – WIBM(AM)

Vertical Plan of Antenna System

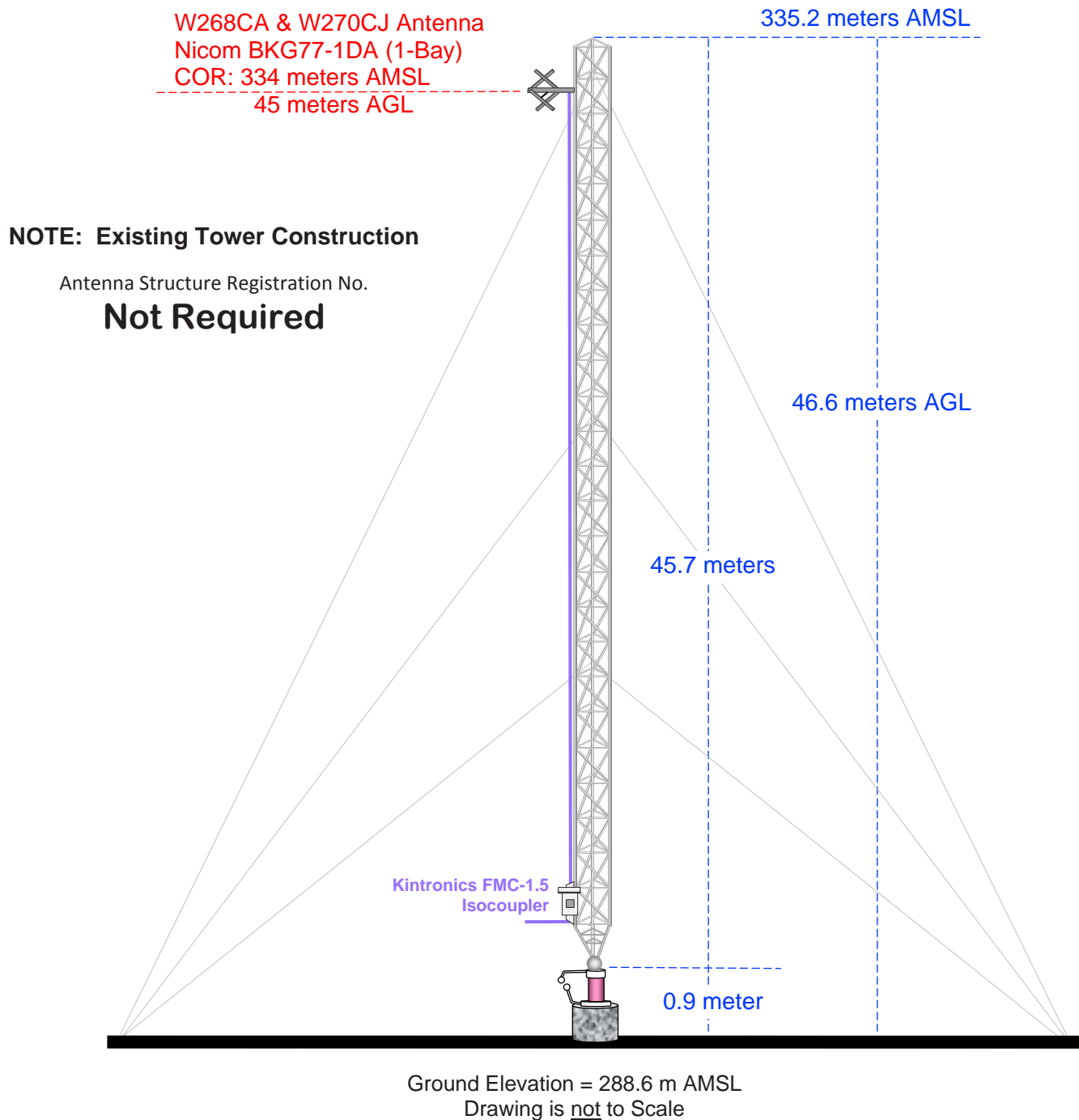
The site is located on Dettman Road,
just north of the railroad tracks;
the city of Jackson, Jackson County, Michigan.

Site Location (NAD 27)

NL: 42° 14' 13"

WL: 84° 21' 52"

(42-14-12.9 NL; 84 21 52.0 WL NAD1983)



MUNN-REESE, INC.

Broadcast Engineering Consultants
Coldwater, MI 49036

Jackson, MI - WIBM(AM) USGS Aerial Photo-Map

Site Location (NAD 27)
NL: 42° 14' 13"
WL: 84° 21' 52"
(42-14-12.9 NL; 84 21 52.0 WL NAD1983)

▲ 947 ft/289 m

