

Hibbing, MN

WMFG(AM) & WMFG-FM

Copy of Existing ASR

**Registration Detail**

Reg Number	1025279	Status	Constructed
File Number	A0922710	Constructed	01/01/1971
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type GTOWER - Guyed Structure Used for Communication Purposes

Location (in NAD83 Coordinates)

Lat/Long	47-24-29.9 N 092-57-05.0 W	Address	TWR 1- 807 W 37TH ST
City, State	HIBBING , MN		
Zip	55746	County	ST. LOUIS
Center of AM Array	47-24-30.0 N 092-57-05.0 W	Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
462.1	63.4
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
525.5	62.5

Painting and Lighting Specifications

FCC Paragraphs 1, 3, 11, 21

FAA Notification

FAA Study	2014-AGL-8810-OE	FAA Issue Date	09/22/2014
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Owner & Contact Information

FRN	0002711737	Owner Entity Type	Corporation
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Owner

Midwest Communications, Inc.
 Attention To: Mr. Paul Rahmlow
 904 Grand Avenue
 Wausau , WI 54403

P: (715)842-1437
 F:
 E: paul.rahmlow@mwcradio.com

Contact

Rahmlow , Paul
 904 Grand Avenue
 Wausau , WI 54403

P: (715)842-1437
 F:
 E: paul.rahmlow@mwcradio.com

Last Action Status

Status	Constructed	Received	09/24/2014
Purpose	Notification	Entered	09/24/2014
Mode	Interactive		

Related Applications

09/24/2014	A0922710 - Notification (NT)
09/23/2014	A0922645 - Modification (MD)
07/14/2014	A0909233 - Admin Update (AU)

Related applications (5)

Comments**Comments**

None

History**Date**

09/25/2014

09/24/2014

09/24/2014

All History (10)

Event

Registration Printed

Construction Notification Received

Modification Received

Automated Letters

09/25/2014

07/15/2014

07/29/2004

Authorization, Reference

Authorization, Reference

Authorization, Reference 347615

**Hibbing, MN
WMFG(AM) & WMFG-FM
USGS Aerial Photo-Map
of Existing Site**

Site Location (NAD 27)

NL: 47° 24' 30"

WL: 92° 57' 04"

(47-24-29.9NL; 92-57-05.0WL NAD1983)

▲ 1516 ft/462 m



0 200 400ft



Hibbing, MN – WMFG(AM) & WMFG-FM Vertical Plan of Antenna System

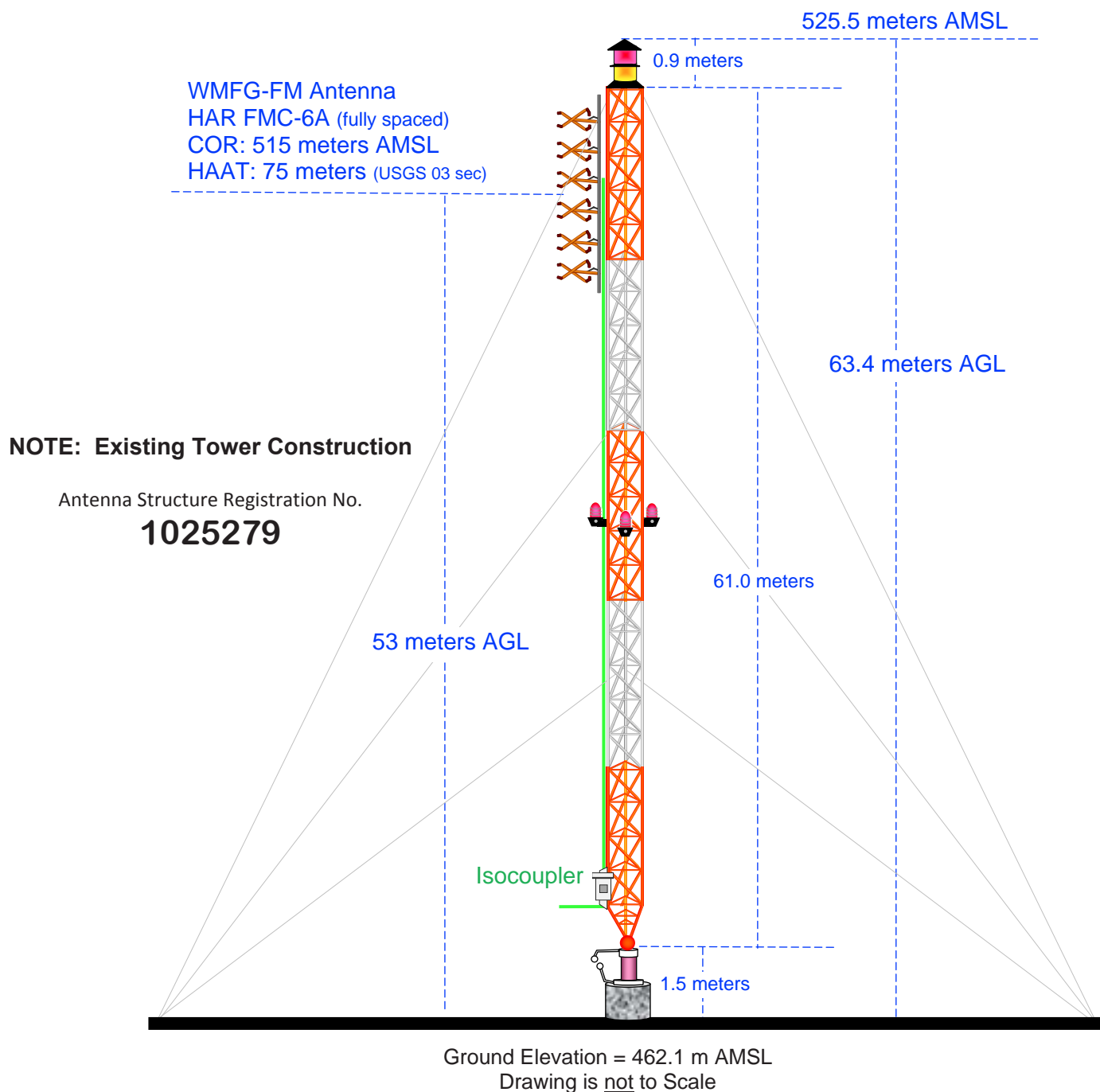
The site is located at 807 W 37th Street;
the city of Hibbing; St. Louis County; Minnesota.

Site Location (NAD 27)

NL: 47° 24' 30"

WL: 92° 57' 04"

(47-24-29.9NL; 92-57-05.0WL NAD1983)



MUNN-REESE, INC.

Broadcast Engineering Consultants
Coldwater, MI 49036

Hibbing, MN – WMFG-FM

PROPOSED FM OPERATING SPECIFICATIONS

Call: WMFG-FM

City of License: Hibbing, MN

Frequency: 106.3 MHz **Channel:** 292C3 **ERP:** 25.0 kW **HAAT:** 75 m

Transmitter Location: The site is located at 807 W 37th Street.

City: Hibbing

County: St. Louis

State: Minnesota

Site Coordinates: NL: 47° 24' 30" / WL: 92° 57' 04"

Tower Registration Number: 1025279

Proposed Operation: Class C3

Effective Radiated Power: 25.0 kW (H) 25.0 kW (V)

Height of Antenna Radiation Center Above:

	<u>Average Terrain</u>	<u>Mean Sea Level</u>	<u>Ground</u>
Horizontal	75 meters	515 meters	53 meters
Vertical	75 meters	515 meters	53 meters

Elevation of Tower Site : 462.1 Meters AMSL

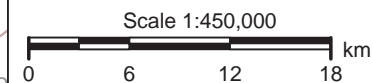
Overall Height of Structure Above Ground : 63.4 Meters AGL

Overall Height of Structure Above Mean Sea Level: 525.5 Meters AMSL

Hibbing, MN - WMFG-FM Licensed Service Contour Study

Licensed 60 dBμ F(50:50)

Licensed 70 dBμ F(50:50)



USGS 03 SEC Terrain Database
U.S. Census 2010 PL Database

WMFG-FM
Hibbing, MN
Corrected Operation
Facility ID: 60912
Latitude: 47-24-30 N
Longitude: 092-57-04 W
ERP: 25.00 kW
Channel: 292C3 (106.3 MHz)
AMSL Height: 515.0 m

70 dBμ Contour
Total Population: 26,997
Total Area: 1,278 sq. km

60 dBμ Contour
Total Population: 52,350
Total Area: 3,696 sq. km

Hibbing

WMFG-FM

Keewatin

Nishnauk

Marble

Chisholm

Buhl

Virginia

Eveleth

St. Louis

Gilbert

N. Lat. = 472430.0 W. Lng. = 925704.0
HAAT and Distance to Contour,
FCC, FM 2-10 Mi, 51 pts Method - USGS 03 SEC

Azi.	AV EL	HAAT	ERP kW	dBk	Field
000	464.2	50.8	25.0000	13.98	1.000
045	454.0	61.0	25.0000	13.98	1.000
090	420.3	94.7	25.0000	13.98	1.000
135	403.9	111.1	25.0000	13.98	1.000
180	415.1	99.9	25.0000	13.98	1.000
225	441.5	73.5	25.0000	13.98	1.000
270	458.9	56.1	25.0000	13.98	1.000
315	460.9	54.1	25.0000	13.98	1.000

Ave El= 439.85 M HAAT= 75.15 M AMSL= 515 M

