

# 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

Authorization, Reference

07/15/2014

Authorization, Reference

07/29/2004

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



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

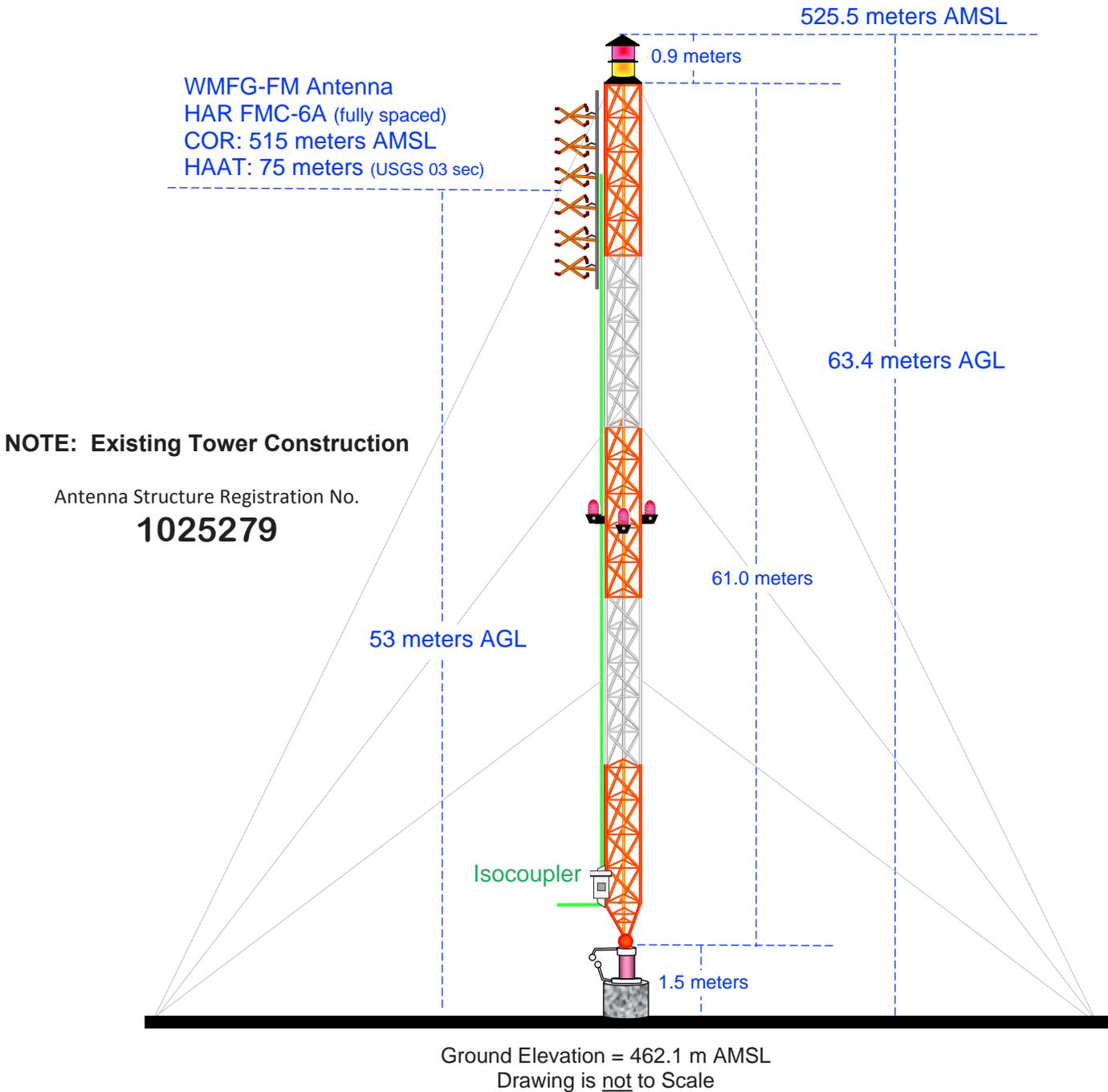
The site is located at 807 W 37th Street;  
the city of Hibbing; St. Louis County; Minnesota.

## Site Location (NAD 27)

NL: 47° 24' 30"

WL: 92° 57' 04"

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



# Hibbing, MN – WMFG-FM

## PROPOSED FM OPERATING SPECIFICATIONS

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**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

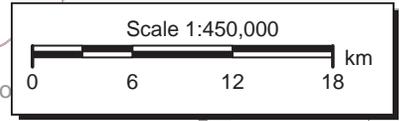
**Overall Height of Structure Above Ground :** 63.4 Meters AGL

**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)

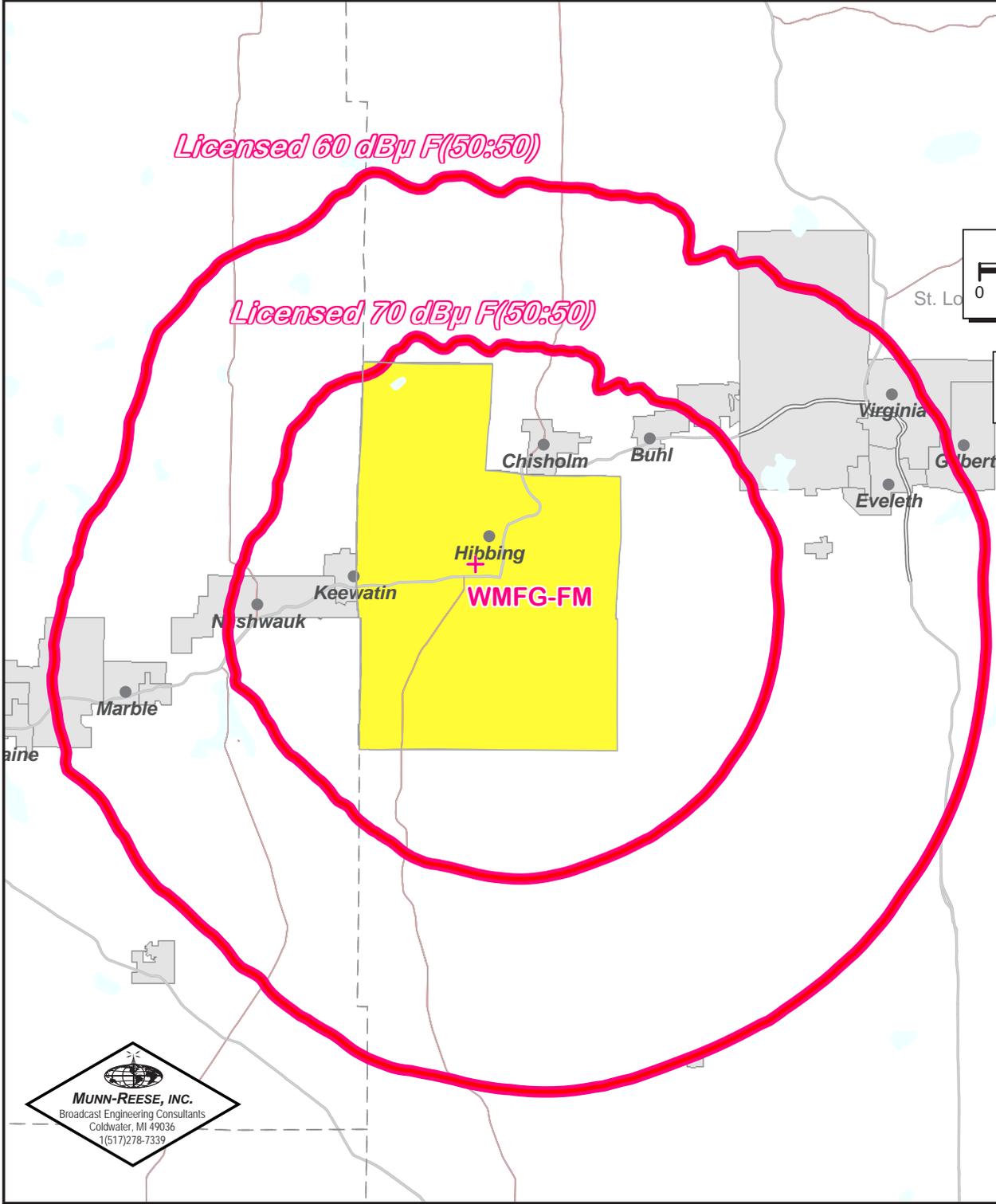


USGS 03 SEC Terrain Database  
U.S. Census 2010 PL Database

**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**



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

