

TECHNICAL REPORT

This technical report has been developed in support of an application for an auxiliary transmission facility for FM station WMCI(FM) 267B1 at Neoga, IL.

I. Site:

The proposed facility is to be located on the existing WMCI tower, ASR no. 1051455, at coordinates:

(NAD 27) 39-14-59 N 88-22-48 W

II. Allocation Analysis:

No allocation study is required for the auxiliary antenna. Exhibit E-1 demonstrates that the proposed 0.40 kW/124 M HAAT auxiliary facility's 60 dBu contour is contained within the licensed WMCI 60 dBu, in compliance with Section 73.1675(a).

III. Blanketing:

The 115 dBu blanketing contour is calculated to be 0.25 km. The calculation was made in accordance with the Commission's formula:

$$115 \text{ dBu (km)} = 1.609 [0.245 (P \text{ kw})^{1/2}].$$

The applicant accepts the responsibility for correction of any objectionable interference or blanketing problems in accordance with Commission rules.

IV. Antenna System and Environmental Considerations:

A three bay Shively model 6832 full-wavelength antenna will be mounted on the existing tower at a COR AGL of 116 meters. To the applicant's knowledge, no adverse impact will result to any applicable 1.1307 category. Consequently, no environmental statement is provided.

The RF contribution for the auxiliary facility was evaluated utilizing the Commission's FMMODEL program including the 2 meters above ground level. Two new auxiliary facilities are to be diplexed on this antenna; the RF contributions are calculated as follows:

WMCI NEW 267 AUX 0.40 kW ERP 0.20 μ W/cm²
WHQQ NEW 255 AUX 0.055 kW ERP 0.08 μ W/cm²
Total = 0.28 μ W/cm² at 59 meters from base of tower

This is well below the 5% threshold of the maximum permissible 200 microwatts/cm² exposure for general population/uncontrolled exposure (10 microwatts/cm²) for exclusion from consideration.

V. Conclusion:

It is concluded that the proposed auxiliary facility for WMCI is in full compliance with Commission rules and policies.



Christopher Anderson March 20, 2006
andersce@yahoo.com
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Registration 1051455

 [Reference Copy](#)  [Map Registration](#)

Registration Detail

Reg Number	1051455	Status	Constructed
File Number	A0060614	Constructed	01/01/1996
FAA Study	95-AGL-3923-OE	EMI	No
FAA Issue Date	01/18/1996	NEPA	No

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Communications Purposes

Location (in NAD83 Coordinates)

Lat/Long	39-14-59.0 N 088-22-48.0 W	2.4 KM SOUTH OF SEVEN MILE CURVE ON RTE 121 AND 2.3 KM NORTH OF ROSLYN
City, State	NEOGA , IL	
Center of AM Array		

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
191.0	150.0
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
341.0	149.0

Painting and Lighting Specifications

FAA Chapters 3, 4, 5, 13
 Paint and Light in Accordance with FAA Circular Number 70/7460-1H
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Owner & Contact Information

FRN	0001769447	Licensee ID	L00015441
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Owner

WSHY, INC.
 Attention To: BAYARD H. WALTERS
 P.O. Box 150846
 NASHVILLE , TN 37215

P: (615)292-5607
 E:

Contact

P:
 E:

Last Action Status

Status	Constructed	Received	07/06/1998
Purpose	Modification	Entered	07/06/1998
Mode	Interactive		

Related Applications

07/06/1998	A0060614 - Modification (MD)
06/22/1998	A0060613 - New (NE)

Comments**Comments**

None
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Automated Letters

12/03/2004	FRN Association, Reference 383698
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CLOSE WINDOW