

**APPLICATION FOR A
MINOR CHANGE
CONSTRUCTION PERMIT
TO A LICENSED FACILITY**

FCC FORM 301

**DIRECTIONAL ANTENNA
(REQUESTING CONSIDERATION UNDER §73.215)
(LONGLEY-RICE METHOD)**

Facility Identification Number 23437

WWIZ

Mercer, Pennsylvania

CHANNEL 280A – 103.9 MHz

ERP: 3.2 kW (H&V)

HAAT: 139 meters (H&V)

APPLICANT: CUMULUS LICENSING CORP.

August, 2001

Prepared by:



Engineering Statement
In Support of a Application
For a Construction Permit
WWIZ, Mercer Pennsylvania, Channel 280A

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ENGINEERING STATEMENT

Of

Lee S. Reynolds

And

Virgle Leon Strickland

In Support of an

Application for a

Construction Permit

WWIZ

Mercer, Pennsylvania

Channel 280A – 103.9 MHz

ERP: 3.2 kW(H&V)

HAAT: 139 m (H&V)

August, 2001

General

As broadcast technical consultants doing business as Reynolds Technical Associates, we have been authorized by Cumulus Licensing Corp (herein referred to as “Cumulus” as well as “The Applicant”), licensee of WWIZ, Mercer, Pennsylvania, to conduct engineering studies and prepare the engineering portion of an application for a construction permit.

This instant application is contingent with an application for WLSW and is seeking to change transmitter relocation, effective radiated power and all elevations of the transmitting antenna.

Because the proposed WWIZ facility does not cover the community of license (Mercer, Pennsylvania) with the F(50,50) 70 dBu contour, a supplemental method (Longley-Rice) is used. By using this supplemental method, the applicant (Cumulus) demonstrates that WWIZ's proposed facility will continue to cover Mercer with a 70 dBu contour, in compliance with §73.315 of the Commission's Rules and Regulations.

The Proposed Site
(Exhibits E, Figure 1 through 10)

Exhibit E, Figure 1 is a channel spacing study for the proposed, listing the facilities considered.

Exhibit E, Figure 2 shows the average terrain and the service contour data for the proposed.

The contour comparison study (Exhibit E, Figure 3) demonstrates that the ERP for a class A at 139 meters HAAT should be 3.2 kW.

Exhibit E, Figure 4 is the service contour map displaying the FCC F(50,50) 70 and 60 dBu contours of the proposed.

Exhibit E, Figure 5 is a portion of the 7.5 minute USGS quadrangle map used for plotting the proposed site.

Exhibit E, Figure 6 is a vertical sketch of the proposed antenna supporting structure

Exhibit E, Figures 7 through 10 shows how the Longley-Rice 70 dBu contour was derived and its coverage of the city of Mercer.

The proposed has an existing structure, therefore the FAA is not required to be notified.

The antenna registration number is 1025767.

The distance to the blanketing contour is calculated to be 0.705 kilometer (0.438 mile).

Protected and Interfering Contours
(Exhibits E, Figure 11 through 17)

Exhibit E, Figures 11 through 17 are FM overlap studies displaying the protected and interfering contours. The interfering 40 dBu F(50,10) contour does not cross the Canadian border.

Proposed Directional Antenna
(No Exhibits)

The applicant proposes contour protection by using a directional antenna. The relative field values entered in the engineering section of the FCC Form 301 demonstrate that the proposed antenna meets the Commission's rules governing FM directional antennas.

Human Exposure
(No Exhibits)

The proposed FM facility was evaluated in terms of potential radiofrequency radiation exposure at ground level in accordance with the RF Worksheet #1 [FCC 340 Worksheet 7 (Page 4 and 5)].

The panel antenna for The Applicant's proposed FM broadcast station is to be placed on an existing tower. The proposed center of radiation above ground level of 155.3 meters, with an ERP (both horizontally and vertically) of 3.2 kW. Power density two (2) meters above ground is 0.009 mW/cm^2 , well below the maximum allowable limit of 0.2 mW/cm^2 for uncontrolled/general public exposure limits as well as the 1.0 mW/cm^2 for controlled/occupational exposure limits

The facilities that commonly use the tower have an agreement to either reduce power or cease operation, so as to prevent hazardous exposure to radiofrequency radiation for anyone required to climb the tower.

Environmental Impact
(No Exhibits)

A grant of the proposed construction would not constitute a major action as defined in the Commission's Rules and Regulations.

During operation, the facility will produce no chemical or significant thermal pollution, and no ionizing radiation will be generated. Areas of high intensity radiofrequency fields will be confined to the immediate area of the transmitting antenna, far above the ground and away from any human and wildlife population.

The area is not officially designated as a wilderness area or wildlife preserve and is not pending consideration. The area has no significant value in American history, architecture, archaeology, or culture, which is listed in the Register of Historic Places, and it is not eligible for listing. It is not recognized either nationally or locally for special scenic or recreational value.

Conclusion

This statement/application has been prepared for The Applicant by utilizing the latest available information, cross-checked with the Federal Communications Commission and other sources. Therefore, it is submitted that the proposed is in compliance with the Commission's Rules and Regulations and other sources. Therefore, it is submitted that the engineering data compiled and demonstrated herein for the proposed is in compliance with Commission's Rules and Regulations at the time of this application's filing date. We welcome the opportunity to discuss with the staff of the Federal Communications Commission the engineering data contained in this application. Should any questions arise concerning the information, please contact us.

The following pages are exhibits prepared and assembled in support of the proposed.

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Statement of the Consultants

The instant engineering statement (amendment to a pending application) was prepared for Cumulus Licensing Corp (“The Applicant”) and supports an application for a construction permit of WWIZ, Mercer, Pennsylvania. It was developed by Lee S. Reynolds and Virgle Leon Strickland of Reynolds Technical Associates and may not be used for purposes other than submission to the Commission by The Applicant.

It may not be reproduced in its entirety, or in part, by anyone (other than from the Commission) without the written consent of Strickland and/or Reynolds.

It is prepared for The Applicant under contractual agreement, and its certification by Strickland/Reynolds is used accordingly. If The Applicant fails in its contractual obligation, Strickland/Reynolds reserve the right to withdraw its certification.

The information in this application is compiled from the most recent Commission and outside data. Strickland/Reynolds are not responsible for errors resulting from incorrect data or unpublished rule and procedure changes.

For Strickland and Reynolds:



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August 16th, 2001

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