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Federal Communications Commission  
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March 9, 1990

Ms. Donna R. Searcy  
Secretary  
Federal Communications Commission  
Washington, D.C. 20554

Re: BPED-890530MA  
Reading, OH

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FM EXAMINERS

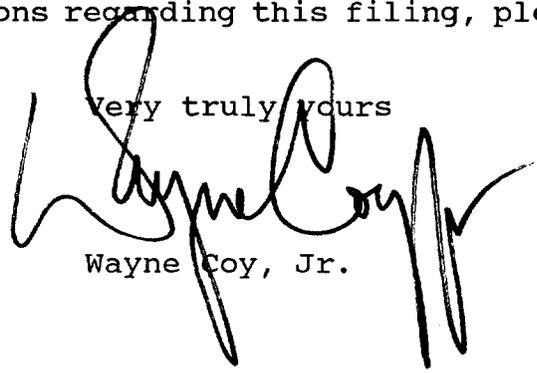
Dear Ms. Searcy

Transmitted herewith, on behalf of Miami University, applicant for a new noncommercial educational FM station at Reading, Ohio, are the original and two (2) copies of an amendment to the application to provide clarification of directional antenna pattern data.

Since the applicant is an agency of the State of Ohio, no filing fee is required.

Should you have any questions regarding this filing, please contact the undersigned.

Very truly yours



Wayne Coy, Jr.

Enclosures



MIAMI UNIVERSITY

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Office of the President  
Roudebush Hall  
Oxford, Ohio 45056

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Federal Communications Commission  
Office of the Secretary

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March 2, 1990

Federal Communications Commission  
1919 M Street, N.W.  
Washington, D. C. 20554

Dear Sir or Madam:

The attached information constitutes an amendment to File #BPED 890530 MA, an application for an FM radio station in Reading, Ohio.

Thank you for your assistance.

Sincerely,

A handwritten signature in cursive script that reads "Paul G. Pearson".

Paul G. Pearson  
President

js

Attachment

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Federal Communications Commission  
Office of the Secretary

CLARIFICATION OF  
DIRECTIONAL ANTENNA PATTERN DATA IN  
THE MIAMI UNIVERSITY, OXFORD, OHIO  
APPLICATION FOR CONSTRUCTION PERMIT  
FOR A NEW NCE FM BROADCAST STATION  
IN READING, OHIO  
FILE NO. BPED-890530MA

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MURPHY

This statement provides a clarification of the directional antenna pattern data for WOBO and WNKU used in the above referenced application. This clarification is offered in response to paragraph 40 of MM Docket No. 87-121 released February 22, 1989. The following information does not change any of the engineering conclusions in the above referenced application.

The antenna pattern data for WOBO used in the engineering exhibit supporting the above referenced Reading Application is taken from the WOBO azimuth pattern plot in the Jampro report dated September 28, 1987 and submitted to the FCC as an attachment to WOBO's Application for License BLED-880202KB. The WOBO azimuth pattern plot referenced in the WOBO Construction Permit BPED-860613MD differs at some azimuths from the WOBO azimuth pattern given in the WOBO license application but in the azimuths critical to the subject Reading Application the two patterns are essentially the same. This correspondence is shown in Tables 1 and 2 below.

The data given below in Tables 1 and 2 covers the critical WOBO azimuths developed in the subject Reading Application in Tables 12A and 12B. Table 12A is the more critical of the two and the comparison in Table 1 below shows there is no significant difference at the critical azimuths between the pattern referenced in the WOBO construction permit and the pattern given in the WOBO license application. The critical distances to WOBO contours given in the subject Reading Application can therefore be taken as based upon construction permit data.

TABLE 1  
Azimuths Referenced in  
Reading Application Table 12A

<u>WOBO Azimuth</u>	<u>WOBO CP APP Figure 3 Relative Field</u>	<u>WOBO LIC APP Attach 1, p. 3 Relative Field</u>
300°	0.435	0.43
301	0.44	0.435
302	0.443	0.44
303	0.448	0.445
304	0.45	0.45
305	0.454	0.455

TABLE 2  
Azimuths Referenced in  
Reading Application Table 12B

<u>WOBO Azimuth</u>	<u>WOBO CP APP Table 1 Relative Field</u>	<u>WOBO LIC APP Attach 1, p. 5 Relative Field</u>
260°	0.48	0.50
270	0.39	0.40
280	0.33	0.34
290	0.38	0.39
300	0.44	0.43
310	0.47	0.48
320	0.54	0.53
330	0.58	0.57
340	0.56	0.56
350	0.53	0.49

The antenna pattern data for WNKU used in the engineering exhibit supporting the subject Reading Application is taken from the WNKU azimuth pattern plot in the Electronics Research, Inc. report dated October 30, 1984 and is believed to be the latest WNKU license data. This WNKU antenna pattern data is in fact essentially identical to the antenna pattern data referenced in the WNKU Construction Permit BMPED-841119IG.

Very slight differences exist between the tabular data given in the application for the WNKU construction permit and the tabular data used in the subject Reading Application. These differences are noted below in Table 3 and are believed due to two different people reading the same polar plot:

TABLE 3  
WNKU RELATIVE FIELD

<u>WNKU Azimuth</u>	<u>WNKU CP (Fig. 3E Table)</u>	<u>Reading App. (Table 18)</u>
350°	0.25	0.25
0	0.20	0.21
10	0.175	0.18
20	0.175	0.18
30	0.195	0.21
40	0.245	0.25
50	0.305	0.32
60	0.380	0.39

Note that in all cases in Table 3 the subject Reading Application uses the same or slightly more relative field for the WNKU pattern, so the small differences would actually increase the contour margin. The distances to WNKU contours given in the Reading Application can therefore be taken as based upon construction permit data.



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Date: February 8, 1990