

Before the  
Federal Communications Commission  
Washington, D.C. 20554

effect on a large number of these stations. The study was based on the new nighttime standards proposed in MM Docket No. 87-267: the nighttime formulas, the 0% RSS exclusion principle, and the adjacent channel protection ratio.

**PUBLIC NOTICE**

FEDERAL COMMUNICATIONS COMMISSION

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**ADDITIONAL STUDY TO DEMONSTRATE EFFECT ON  
AN AM CHANNEL BY THE MIGRATION OF A  
SINGLE STATION TO THE EXPANDED BAND  
(MM DOCKET 87-267)**

The Mass Media Bureau has conducted an additional study in an effort to supplement certain data which were presented in the Commission's *Notice of Proposed Rule Making (NPRM)* (MM Docket No. 87-267). That *NPRM* addressed the review of the technical assignment criteria for the AM broadcast service.

The new study, shown below as Appendix 3A, is similar to Appendix 3 of the *NPRM* which used an individual station on a particular frequency to illustrate the effects of the expanded band migration process. Recognizing that such a study may not be representative of all cases, the new study was conducted to further demonstrate the benefits of the migration process. A different frequency and a new migration candidate were selected for this new study, which reveals a more substantial reduction of interference on the subject frequency than that indicated in the previous example in Appendix 3. It appears that the migration process could provide added interference reduction in the existing AM band since it is anticipated that more than one station on each channel would move to the expanded band once the process is fully implemented. This additional study may be helpful in developing comments in response to the *NPRM*. For further information on this matter, contact Henry A. Straube at (202) 254-3394.

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**APPENDIX 3A**

**Further Illustration of AM Interference Reduction Resulting from Migration of a Station from the Existing AM Band to the Expanded Portion of the AM Band.**

The following table demonstrates the potential for improvement which could be achieved on an AM channel during nighttime hours by the movement of one station from a frequency within the existing AM band to one of the frequencies within the expanded band, 1605 kHz to 1705 kHz. The situation presented here describes a case where a single station's removal from a frequency would result in a significant improvement to numerous other operations. The frequency used for this study, 1430 kHz, was chosen because the number of stations operating on this channel permits a showing of significant impact a single station's moving to the expanded band could have on the stations remaining on the channel. The station selected, WXTZ, Indianapolis, Indiana was used because of its location relative to other stations and its predicted

| Call | Location      | Including WKTZ        |                      | Excluding WKTZ        |                      |
|------|---------------|-----------------------|----------------------|-----------------------|----------------------|
|      |               | Night Limit<br>(mV/m) | Coverage<br>(Sq.mi.) | Night Limit<br>(mV/m) | Coverage<br>(Sq.mi.) |
| KFNI | FRESNO,CA     | 5.81                  | 824                  | 5.76                  | 830                  |
| KALI | SAN GABRIE,CA | 26.04                 | 144                  | 26.04                 | 144                  |
| KNTA | SANT CLARA,CA | 24.54                 | 41                   | 24.53                 | 41                   |
| KEZW | AURORA,CO     | 9.89                  | 759                  | 9.63                  | 780                  |
| WOIR | HOMESTEAD,FL  | 16.23                 | 74                   | 15.76                 | 77                   |
| WLKF | LAKELAND,FL   | 17.21                 | 25                   | 16.35                 | 27                   |
| WLTG | PANAMA CIT,FL | 23.72                 | 204                  | 22.41                 | 234                  |
| WWGS | TIFTON,GA     | 38.85                 | 14                   | 37.75                 | 14                   |
| WYMC | MAYFIELD,KY   | 28.95                 | 17                   | 21.20                 | 25                   |
| WXKS | EVERETT,MA    | 43.02                 | 9                    | 43.00                 | 9                    |
| WNAV | ANNAPOLIS,MD  | 28.82                 | 83                   | 28.60                 | 84                   |
| WION | IONIA,MI      | 38.91                 | 12                   | 27.82                 | 20                   |
| WBRB | MT CLEMENS,MI | 29.86                 | 41                   | 21.40                 | 68                   |
| WIL  | ST LOUIS,MO   | 12.27                 | 487                  | 11.41                 | 527                  |
| WDEX | MONROE,NC     | 34.41                 | 25                   | 32.05                 | 27                   |
| WMNC | MORGANTON,NC  | 32.54                 | 9                    | 28.22                 | 11                   |
| KRGI | GRAND ISLD,NE | 19.62                 | 117                  | 18.82                 | 124                  |
| WNJR | NEWARK,NJ     | 9.16                  | 216                  | 9.08                  | 218                  |
| KCRX | ROSWELL,NM    | 16.49                 | 110                  | 16.48                 | 110                  |
| WENE | ENDICOTT,NY   | 14.06                 | 104                  | 13.79                 | 106                  |
| WFOB | FOSTORIA,OH   | 19.65                 | 132                  | 9.01                  | 353                  |
| KALV | ALVA,OK       | 15.50                 | 137                  | 15.42                 | 138                  |
| KQLL | TULSA,OK      | 10.96                 | 679                  | 10.86                 | 686                  |
| KYKN | KEIZER,OR     | 14.40                 | 112                  | 14.39                 | 112                  |
| WVAM | ALTOONA,PA    | 19.03                 | 37                   | 18.89                 | 38                   |
| WNWZ | GERMANTOWN,TN | 35.71                 | 55                   | 33.10                 | 60                   |
| WHNK | MADISON,TN    | 33.29                 | 17                   | 21.95                 | 29                   |
| KEES | GLADEWATER,TK | 39.73                 | 28                   | 39.52                 | 28                   |
| KLO  | OGDEN,UT      | 5.17                  | 1092                 | 4.99                  | 1127                 |
| KCLK | ASOTIN,WA     | 7.93                  | 181                  | 7.88                  | 182                  |
| KBRC | MT VERNON,WA  | 13.32                 | 65                   | 13.31                 | 65                   |
| WBEV | BEAVER DAM,WI | 35.35                 | 33                   | 27.28                 | 46                   |
| WEIR | WEIRTON,WV    | 10.45                 | 75                   | 9.87                  | 80                   |

NOTE: COVERAGE WAS BASED ON FCC FIGURE M-3 SOIL CONDUCTIVITY VALUES.