

## EXHIBIT 1 --- LPFM PRECLUSION STUDY

Northeastern Pennsylvania Educational Television Association (NPETA) hereby submits its Auction 83 Amendment to Short Form which includes its LPFM Preclusion Study. This is for FM Translator tech box proposal BNPFT-20030317AIX, Reading, PA. It should be noted that this proposal falls into 5 Spectrum Limited markets; Reading, PA; Lancaster, PA; Allentown, PA; Philadelphia, PA; and Wilmington, DE. Showings for all five of these markets will be provided.

### Reading LPFM Grid Test:

Subpart A of this Exhibit shows the Proposed Transmitter Site for this proposal. It is inside the Reading, PA 30 by 30 Market Grid (the correct grid to be used for Reading, PA based on Reading being a Spectrum Limited Market listed in Appendix A of the Fourth report and order). It should be noted that of the three channels required to be studied, Channels 295, 296, and 297, only Channel 296 has any LPFM channel-point availabilities (See LPFM Available Channels Study in Subpart B). The blue circle labeled shows the area (26 km) in which this proposal would preclude an LPFM station on Channel 296. It should be noted that this FM Translator is "Classed" at the low class level; 7.3 km or less; based on the fact that this translator proposes operation with 99 watts ERP DA at 20 meters HAAT based on the use of 12 Standard radials. This Proposal's Distance to FM Translator 60 dBu Contour is 5.66 km based on 99 watts ERP DA at 20 meters HAAT using 12 Standard radials. Therefore, the LPFM Preclusion radius of its preclusion circle is 26 km. No Channel 296 protected LPFM points are overlapped or violated by this proposal. This proposal DOES NOT PRECLUDE any protected LPFM Channel points. It should be noted that Reading, PA is listed as market Number 134 placing it out of range of any Top 50 Market Grid, Section D of Attachment B does not apply and no Top 50 Transmitter Site test is required.

### Lancaster LPFM Grid Test:

Subpart C and D of this Exhibit shows the Preclusion Circle for this proposal. It is within 39 km of the Lancaster, PA 30 by 30 Market Grid (the correct grid to be used for Lancaster, PA based on Lancaster being a Spectrum Limited Market listed in Appendix A of the Fourth report and order). It should be noted that of the three channels required to be studied, Channels 295, 296, and 297, only Channel 296 and Channel 297 have any LPFM channel-point availabilities (See LPFM Available Channels Study in Subpart E). The blue circle labeled shows the area (26 km for Channel 296 and 15 km for Channel 297) in which this proposal would preclude an LPFM station on Channel 296 or 297. It should be noted that this FM Translator is "Classed" at the low class level; 7.3 km or less; based on the fact that this translator proposes operation with 99 watts ERP DA at 20 meters HAAT based on the use of 12 Standard radials. This Proposal's Distance to FM Translator 60 dBu Contour is 5.66 km based on 99 watts ERP DA at 20 meters HAAT using 12 Standard radials. Therefore, the LPFM Preclusion radius of its preclusion circle is 26 km for Channel 296 and 15 km for Channel 297. No Channel 296 or 297 protected

LPFM points are overlapped or violated by this proposal. This proposal DOES NOT PRECLUDE any protected LPFM Channel points. It should be noted that Lancaster, PA is listed as market Number 112 placing it out of range of any Top 50 Market Grid, Section D of Attachment B does not apply and no Top 50 Transmitter Site test is required.

#### Allentown LPFM Grid Test:

No map exhibit is required in this instance. This proposal is within 39 km of the Allentown, PA 30 by 30 Market Grid (the correct grid to be used for Allentown, PA based on Allentown being a Spectrum Limited Market listed in Appendix A of the Fourth report and order). It should be noted that all the three channels required to be studied, Channels 295, 296, and 297, have NO LPFM channel-point availabilities in this market (See LPFM Available Channels Study in Subpart F). This proposal DOES NOT PRECLUDE any protected LPFM Channel points. It should be noted that Allentown, PA is listed as market Number 70 placing it out of range of any Top 50 Market Grid, Section D of Attachment B does not apply and no Top 50 Transmitter Site test is required.

#### Philadelphia LPFM Grid Test:

No map exhibit is required in this instance. This proposal is within 39 km of the Philadelphia, PA 30 by 30 Market Grid (the correct grid to be used for Philadelphia, PA based on Philadelphia being a Spectrum Limited Market listed in Appendix A of the Fourth report and order). It should be noted that all the three channels required to be studied, Channels 295, 296, and 297, have NO LPFM channel-point availabilities in this market (See LPFM Available Channels Study in Subpart G). This proposal DOES NOT PRECLUDE any protected LPFM Channel points. It should be noted that Philadelphia, PA is listed as market Number 7 placing it in range of a Top 50 Market Grid. Included as Subpart H is a Top 50 Market Grid Site Test. NO LPFM station can be placed at the proposal's location thus it passes the Top 50 market test.

#### Wilmington LPFM Grid Test:

Subpart I of this Exhibit shows the Preclusion Circle for this proposal. It is within 39 km of the Wilmington, DE 30 by 30 Market Grid (the correct grid to be used for Wilmington, DE based on Wilmington being a Spectrum Limited Market listed in Appendix A of the Fourth report and order). It should be noted that of the three channels required to be studied, Channels 295, 296, and 297, only Channel 297 has any LPFM channel-point availabilities (See LPFM Available Channels Study in Subpart J). The blue circle labeled shows the area (15 km for Channel 297) in which this proposal would preclude an LPFM station on Channel 297. It should be noted that this FM Translator is "Classed" at the low class level; 7.3 km or less; based on the fact that this translator proposes operation with 99 watts ERP DA at 20 meters HAAT based on the use of 12 Standard radials. This Proposal's Distance to FM Translator 60 dBu Contour is 5.66 km based on 99 watts ERP DA at 20 meters HAAT using 12 Standard radials. Therefore, the LPFM Preclusion radius of its preclusion circle is 15 km for Channel 297. No Channel 297 protected

LPFM points are overlapped or violated by this proposal. This proposal DOES NOT PRECLUDE any protected LPFM Channel points. It should be noted that Wilmington, DE is listed as market Number 79 placing it out of range of any Top 50 Market Grid, Section D of Attachment B does not apply and no Top 50 Transmitter Site test is required.