

## **EXHIBIT 1**

### **LPFM PRECLUSION STUDY**

Denise Choi, hereby submits this Auction-83 Short-Form Amendment and LPFM Preclusion Showing, for translator “tech box” proposal BNPFT-20030317LVS at Millbourne, PA. This filing is required by Public Notice DA 13-427, March 14, 2013.

This amendment makes minor corrections to the coordinates and elevations, and reduces the ERP. The primary station to be rebroadcast is changed to commercial station WPRB, Princeton NJ. This is a commercial proposal. No other changes are proposed. The “new” 60dbu contour is completely contained inside the “old” 60dbu contour. This application qualifies as a minor-amendment.

Based on the database available at the time of filing, this application is now a grantable singleton, that can proceed to the Long Form stage. With the reduction in ERP, there are no overlaps with any pending or granted facilities.

#### **GRID TEST:**

The proposed transmitter site is within the Philadelphia, PA 30x30 Market Grid. Philadelphia is listed as a Spectrum Limited Market in Appendix A of the Fourth Report and Order. In such instances, the Grid Test methodology described in Section B, Attachment B of the Public Notice is to be followed.<sup>1</sup> The proposed transmitter site is also within the 39km Buffer Zones of both the Wilmington, DE and Trenton, NJ Markets. Both of these markets also are Spectrum Limited, with 30x30 Market Grids.

**Exhibit 1a** shows the pertinent pages of an LPFM6 computer analysis<sup>2</sup> for the Philadelphia market, using the Section B assumptions. None of 3 channels to be considered 235,

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<sup>1</sup>Attachment B (LPFM Preclusion Studies for Certain FM Translator Applications: The Grid Test and the Top-50 Transmitter Site Test), of Public Notice Media Bureau Announces April 1-April 19 Filing Window for FM Translator Auction 83 Preclusion Showings, DA 13-427, March 14, 2013

<sup>2</sup>LPFM6.exe and associated data, version 20121206

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236, and 237, have any protected LPFM channel points. Therefore, this proposal does not preclude any protected LPFM opportunities in Philadelphia.

Moving on to Wilmington, **Exhibit 1b** shows that the 15km Preclusion Area for this proposal does not violate any first-adjacent LPFM Channel Points, on Channel 237. **Exhibit 1c** shows that, of the three channels, only Channel 237 has any LPFM Protected Points.

In Trenton, **Exhibit 1d** show that none of the three channels have any LPFM Protected Points.

Therefore, this proposed translator does not preclude any protected LPFM channel points and any Appendix A Market.

#### **TOP-50 TRANSMITTER SITE TEST:**

The proposed transmitter site is inside the Philadelphia Market, *and* inside the Philadelphia Market Grid. This test only applies to applications that are inside a Top-50 Market, but *outside the Market Grid*. As such, Section D of Attachment B does not apply, and a Top-50 Transmitter Site Test is not required.

**EXHIBIT 1a**  
**LPFM PROTECTED CHANNEL-POINTS**  
**FOR GRID STUDY**  
**Philadelphia, PA - Spectrum Limited Market**

Philadelphia, PA  
 Latitude 39-57-08  
 Longitude 075-09-51  
 Grid Size 31 x 31  
 Micro FM 100 Watts at 30m HAAT  
 Co-Channel and 1st Adjacent Protected  
 2nd Adjacent Channel Not Protected  
 3rd Adjacent Channel Not Protected  
 I.F. Not Protected  
 TV Channel 6 Protected  
 CP Records Protected  
 APP Records Protected  
 FM Translators Protected  
 TV Channel 6 Translators/LP Protected  
 Auc83 FX App Records Not Protected

Chan	Avail	Chan	Avail	Chan	Avail	Chan	Avail	Chan	Avail
200	0	220	0	240	0	260	19	280	0
201	0	221	113	241	0	261	0	281	0
202	0	222	0	242	0	262	0	282	0
203	0	223	0	243	0	263	0	283	0
204	0	224	0	244	0	264	0	284	0
205	0	225	893	245	0	265	0	285	0
206	0	226	0	246	0	266	0	286	0
207	0	227	0	247	0	267	0	287	0
208	0	228	0	248	0	268	0	288	0
209	0	229	0	249	0	269	0	289	248
210	0	230	0	250	0	270	0	290	0
211	0	231	0	251	0	271	0	291	0
212	0	232	0	252	0	272	0	292	0
213	0	233	0	253	757	273	0	293	770
214	0	234	0	254	0	274	0	294	0
215	0	235	0	255	0	275	0	295	0
216	0	236	0	256	0	276	0	296	0
217	0	237	0	257	0	277	0	297	0
218	0	238	0	258	0	278	0	298	0
219	0	239	0	259	0	279	0	299	0
								300	0

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 Total 2800

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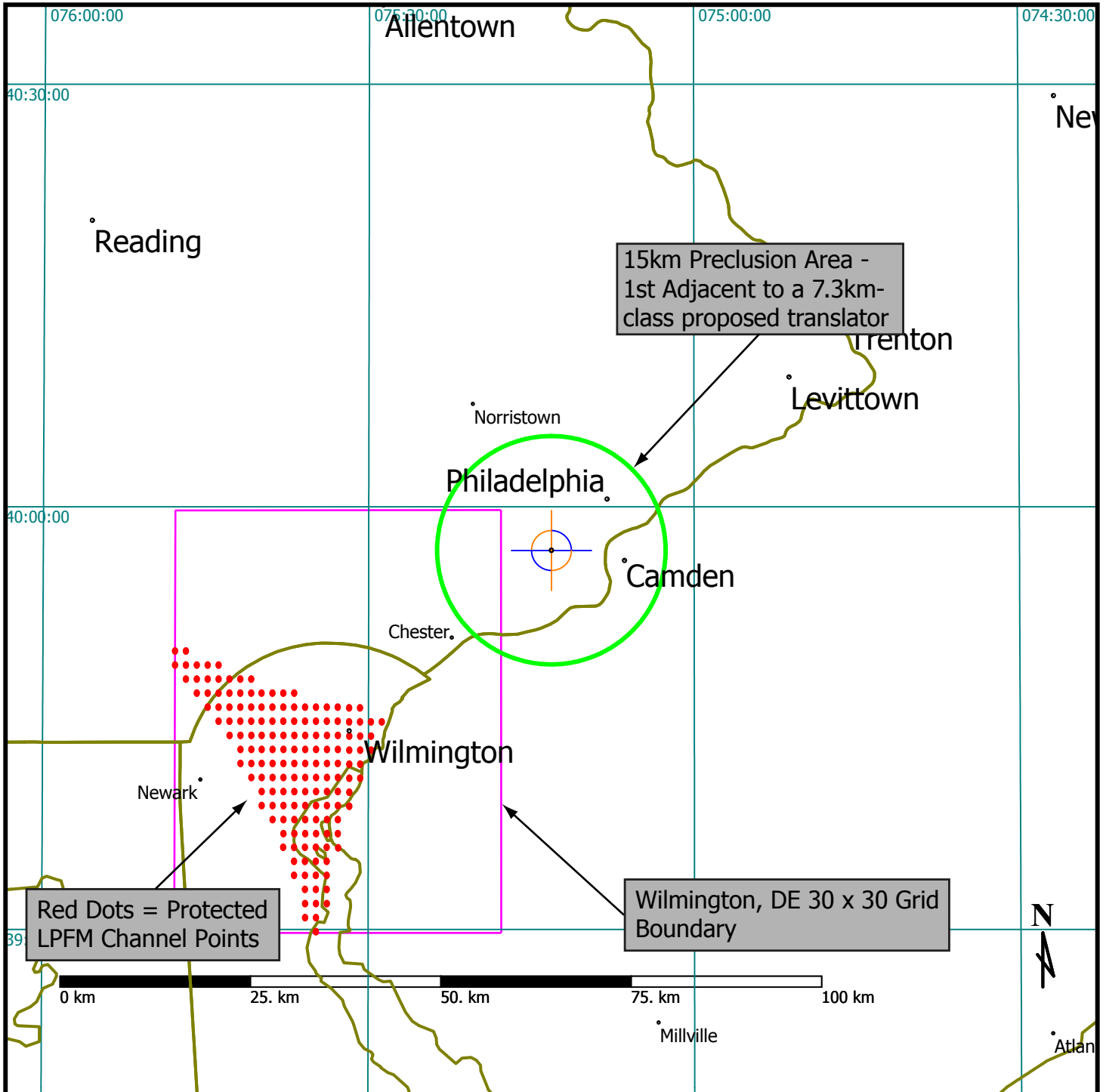
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**Exhibit 1b**  
**Channel 237 1st Adjacent-Channel Preclusion Map**  
**Wilmington, DE**

Brown Broadcast Services, Inc.  
Job: 20030317LVS MILLBOURNE PA.fmj  
Master Database: 2013\_Apr\_10.fmd  
Lat: N39:56:54 Lon: W075:13:09 NAD-27  
Scale: 1:750000  
Channel: 236 Class: DX

rfInvestigator Version 3.7.2  
by rfSoftware, Inc.  
Date: 4/17/2013 05:06:59 PM  
Key:

Proposed Chan:	236
12 radial HAAT:	21m
ERP:	9W
XLTR Class:	7.3km or less
Relationship:	1st Adjacent
Preclusion radius:	15km



**EXHIBIT 1c**  
**LPFM PROTECTED CHANNEL-POINTS**  
**FOR GRID STUDY**  
**Wilmington, DE - Spectrum Limited Market**

Wilmington, DE  
Latitude 39-44-45  
Longitude 075-32-49  
Grid Size 31 x 31  
Micro FM 100 Watts at 30m HAAT  
Co-Channel and 1st Adjacent Protected  
2nd Adjacent Channel Not Protected  
3rd Adjacent Channel Not Protected  
I.F. Not Protected  
TV Channel 6 Protected  
CP Records Protected  
APP Records Protected  
FM Translators Protected  
TV Channel 6 Translators/LP Protected  
Auc83 FX App Records Not Protected

Chan	Avail	Chan	Avail	Chan	Avail	Chan	Avail	Chan	Avail
200	0	220	0	240	0	260	469	280	0
201	0	221	0	241	27	261	0	281	71
202	0	222	0	242	0	262	0	282	0
203	0	223	0	243	0	263	0	283	0
204	0	224	0	244	0	264	0	284	0
205	0	225	381	245	0	265	0	285	0
206	0	226	0	246	0	266	0	286	0
207	0	227	0	247	0	267	0	287	0
208	0	228	0	248	0	268	0	288	0
209	0	229	0	249	0	269	0	289	105
210	0	230	0	250	0	270	0	290	0
211	0	231	0	251	0	271	0	291	0
212	0	232	0	252	0	272	0	292	0
213	0	233	0	253	605	273	0	293	305
214	0	234	0	254	0	274	0	294	0
215	0	235	0	255	0	275	0	295	0
216	0	236	0	256	0	276	0	296	0
217	0	237	159	257	0	277	0	297	65
218	0	238	0	258	0	278	0	298	0
219	0	239	0	259	0	279	0	299	0
								300	0

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Total 2187

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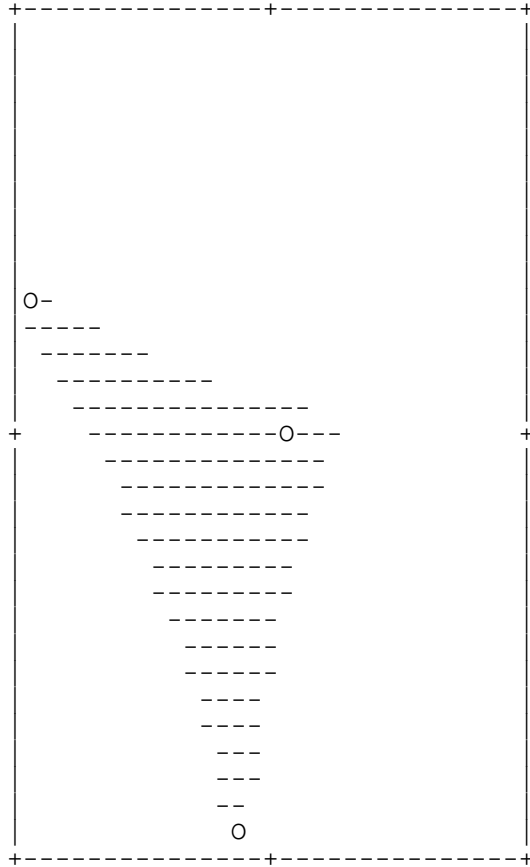
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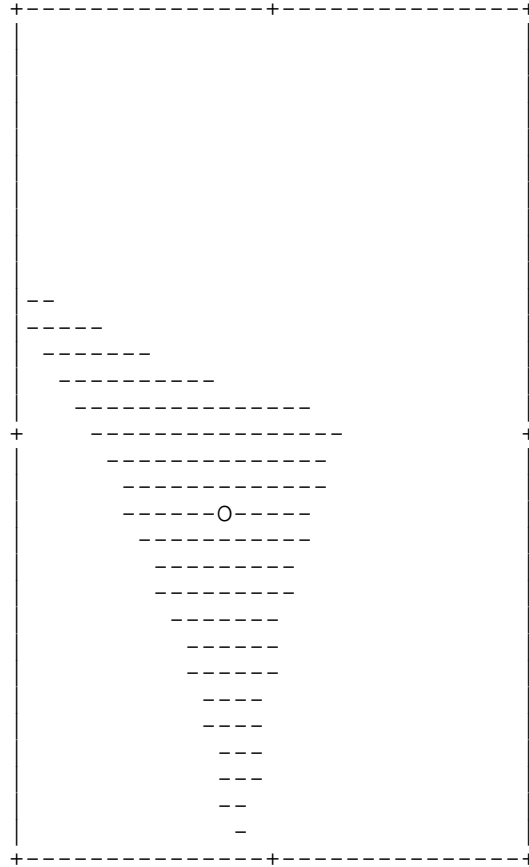
503-245-6065

Wilmington, DE  
 Latitude 39-44-45  
 Longitude 075-32-49  
 Least preclusive siting  
 Availability of Channel 237 (X)



Point #528 at 39-29-45 075-34-49  
 Point #951 at 39-49-45 075-47-49  
 Point #450 at 39-44-45 075-31-49

Wilmington, DE  
 Latitude 39-44-45  
 Longitude 075-32-49  
 Most preclusive siting  
 Availability of Channel 237 (X)



Point #571 at 39-41-45 075-35-49

**EXHIBIT 1d**  
**LPFM PROTECTED CHANNEL-POINTS**  
**FOR GRID STUDY**  
**Trenton, NJ - Spectrum Limited Market**

Trenton, NJ  
Latitude 40-13-01  
Longitude 074-44-36  
Grid Size 31 x 31  
Micro FM 100 Watts at 30m HAAT  
Co-Channel and 1st Adjacent Protected  
2nd Adjacent Channel Not Protected  
3rd Adjacent Channel Not Protected  
I.F. Not Protected  
TV Channel 6 Protected  
CP Records Protected  
APP Records Protected  
FM Translators Protected  
TV Channel 6 Translators/LP Protected  
Auc83 FX App Records Not Protected

Chan	Avail	Chan	Avail	Chan	Avail	Chan	Avail	Chan	Avail
200	0	220	0	240	0	260	0	280	32
201	0	221	0	241	0	261	0	281	9
202	0	222	0	242	0	262	0	282	0
203	0	223	0	243	0	263	0	283	0
204	0	224	0	244	0	264	0	284	0
205	0	225	154	245	2	265	0	285	4
206	0	226	0	246	0	266	0	286	0
207	0	227	0	247	0	267	0	287	0
208	0	228	0	248	0	268	0	288	0
209	0	229	0	249	0	269	0	289	10
210	0	230	0	250	0	270	0	290	0
211	0	231	0	251	0	271	0	291	0
212	0	232	0	252	0	272	0	292	0
213	0	233	0	253	28	273	0	293	124
214	0	234	0	254	0	274	0	294	0
215	0	235	0	255	0	275	0	295	0
216	0	236	0	256	0	276	0	296	0
217	0	237	0	257	0	277	0	297	0
218	0	238	0	258	0	278	0	298	0
219	0	239	0	259	0	279	0	299	0
								300	0

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Total 363

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