Calvary Chapel of the Finger Lakes, Inc.
Application for New FM Translator Station -- Cortland, NY
Facility ID 151672 -- Channel 296
April 2013 -- Exhibit 1 – LPFM Preclusion Study

NAD 27 coordinates of the proposed Channel 296 Cortland, NY translator site are 42-37-30 N, 76-12-41 W. This site is located within the Town of Cortlandville in Cortland County, NY, which is not part of any metro radio market recognized by Arbitron; however, the site falls with the 39 kilometer LPFM Grid buffer zone for Syracuse, NY, a "spectrum-limited Appendix A Market".

The proposed effective radiated power of this facility is 0.027 kW at 27 meters height above average terrain. Based on use of the directional antenna specified in this application, the maximum predicted 60 dBu contour distance is 6.67 kilometers at a bearing of 212 degrees true. Therefore; when applying the LPFM distance separation requirements of 47 CFR 73.807(c), this translator should be categorized as having a 60 dBu contour distance of 7.3 km or less.

This study has been performed to determine the potential impact this translator would have on LPFM channel availability within the 20 x 20 minute Syracuse grid on Channels 294 to 298. The following channel-point data were determined using "LPFM Grid Tool" software provided by the FCC:

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Syracuse, NY
Latitude   43-02-53
Longitude 076-08-52
Grid Size 21 x 21
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
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Chan	Avail	Chan	Avail	Chan	Avail	Chan	Avail	Chan	Avail
200	0	220	0	240	0	260	0	280	0
201	0	221	0	241	117	261	0	281	0
202	0	222	0	242	9	262	0	282	0
203	0	223	69	243	0	263	0	283	0
204	0	224	96	244	1	264	0	284	0
205	0	225	0	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	113	248	0	268	0	288	0
209	0	229	0	249	0	269	0	289	0
210	0	230	0	250	0	270	0	290	0
211	0	231	17	251	1	271	0	291	0
212	0	232	0	252	0	272	0	292	0
213	0	233	0	253	0	273	0	293	0
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	123	297	0
218	0	238	0	258	0	278	1	298	1
219	0	239	0	259	0	279	0	299	0
								300	0

Channel 298 Protection

The closest identified point within the Syracuse LPFM Grid where Channel 298 would be available is Point 421 at 42-52-53 N, 076-18-52 W. Spacing from the proposed translator site to this point is 29.70 kilometers, which exceeds the required second-adjacent LPFM separation of 8 kilometers

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Syracuse, NY                        Syracuse, NY
Latitude   43-02-53                 Latitude   43-02-53
Longitude 076-08-52                 Longitude 076-08-52
Least preclusive siting             Most  preclusive siting
Availability of Channel 298 (X)     Availability of Channel 298 (X)
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Point #421 at 42-52-53 076-18-52    Point #421 at 42-52-53 076-18-52
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Conclusion

Please note that channels within the range 294 to 297 are not available for LPFM use within the Syracuse grid due to the licensed operation of WSYR-FM, Solvay, NY on Channel 295B1 and WKVU, Utica, NY on Channel 297B. Therefore, the instant translator application does not preclude any identified channel/point licensing opportunity within the Syracuse, NY grid for a future LPFM station.