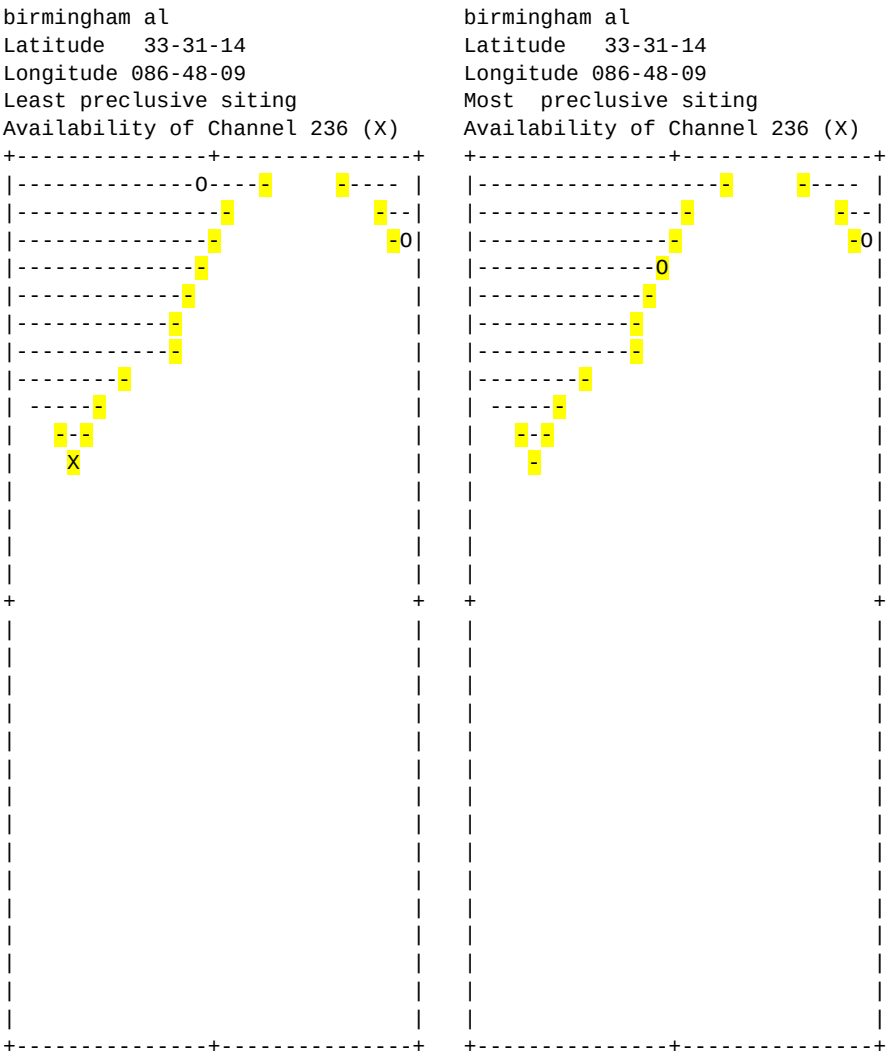
LPFM Preclusion Study

This proposal is requesting facilities other than those of the original tech box proposal and is located within 39 km of a Spectrum Available grid Market (Birmingham, Alabama), therefore a LPFM Preclusion study is required as per DA13-282, Appendix B, paragraph C (hereafter referred to as Appendix B).

Appendix B requires a grid test to determine if the proposal will preclude any LPFM grid point licensing opportunity within the market.

A spectrum availability study was completed protecting all authorizations and applications on co-, first-, and second-adjacent channels including pending Auction 83 applications. Intermediate Frequency protections were ignored. The study shows one channel (236) available with potential to conflict with this proposal (channel 235). The study for channel 236 is shown below:



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Point #029 at 33-44-14 086-33-09    Point #524 at 33-43-14 086-49-09
Point #527 at 33-46-14 086-49-09    Point #029 at 33-44-14 086-33-09
Point #827 at 33-36-14 086-59-09
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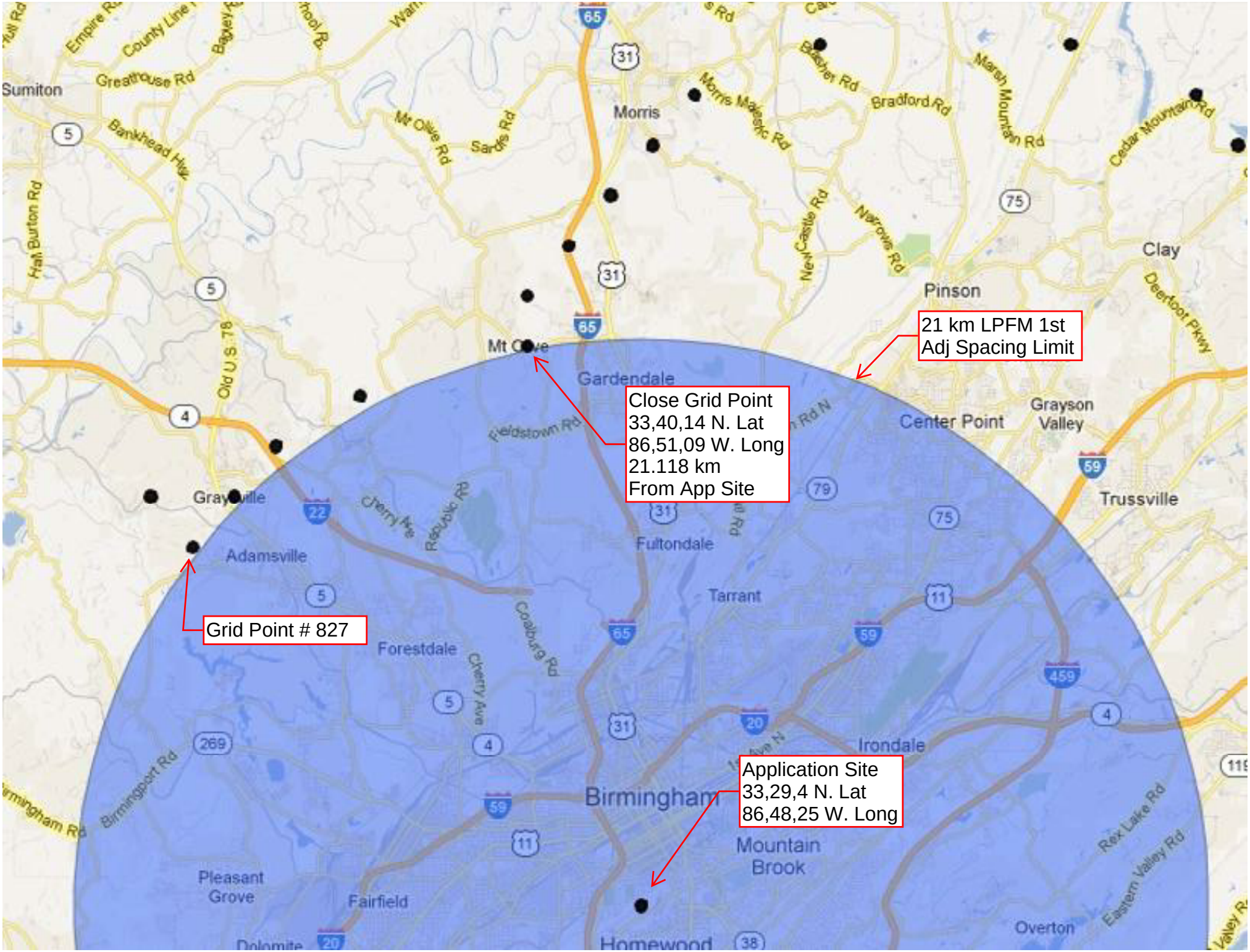
The proposed translator location is to the South of all of the available grid points for channel 236 in the Birmingham market. At each latitude in the study, the grid point closest to the proposed translator location was plotted on a map of the market. (Highlighted in Yellow) All other grid points are at greater distance from the proposed location. Therefore, if the proposal clears the plotted points, it will also clear the remaining points.

The proposed translator will be located at 33-29-04.4 N and 86-48-25.2 W and will operate with an ERP of 13 watts at an HAAT of 350 meters on channel 235 and will have an average 60 dBu protected contour of 11.69 km. Therefore, the required spacing for a 100 watt LPFM station operating on an adjacent channel to the proposal is 21 km as per 47CFR73.807 (c). All of the available LPFM grid points for channel 236 in the Birmingham market are located greater than 21 km from the proposed translator (see map). No LPFM opportunity will be precluded and this proposal passes the Appendix B LPFM grid test.


21 km LPFM 1st
Adj Spacing Limit
Close Grid Point
33,40,14 N. Lat
86,51,09 W. Long
21.118 km
From App Site
Grid Point # 827
Application Site
33,29,4 N. Lat
86,48,25 W. Long
Sumiton
Morris
Pinson
Clay
Gardendale
Center Point
Grayson
Valley
Trussville
Adamsville
Fultondale
Tarrant
Forestdale
Irondale
Birmingham
Mountain
Brook
Pleasant
Grove
Fairfield
Homewood
Overton