Application requests a waiver for a location which is short-spaced on a second-adjacent channel with BPFT-20150521ACL, callsign W248BH, class D, status CP, Gates, NY, channel 248, facility ID 150641[3]

| Undesired-to-Desired Ratio Method |  |
| :--- | :--- |
| BPFT-20150521ACL f(50,50) signal | $66.2 \mathrm{dBu}[1][2]$ |
| Second-adjacent protection | +40 dB |
| Interference-zone boundary | 106.2 dBu |
| Distance to 106.2 dBu | $214.8 \mathrm{~m}($ ERP $<=0.0387 \mathrm{~kW})[1]$ |

The interference zone produces a worst-case circle of radius 214.8 meters on the ground which is shown on the following map. The antenna height above ground is 33 meters and there are occupied structures nearby, so further study is required.

[1] tvfmfs() Fortran subroutine as distributed by the FCC. At distances less than or equal to 1.5 km , tvfmfs() uses the free-space method.
[2] FCC HAAT Calculator web page, http://transition.fcc.gov/mb/audio/bickel/haat_calculator.html [3] CDBS database downloaded 2015-07-07 03:47:00

At 38.7 watts, the interfering contour would extend to a distance of 214.8 meters from the antenna. However, using a 4 -bay .75 wave spaced antenna, the field strength of the proposed LPFM's antenna system falls quickly at depression angles below the horizon. Using elevation pattern data provided by PSI (see below) the distance to the 106.2 dBu contour is tabulated below.

The data shows that the lowest point at which the signal strength rises to 106.2 dBu is 18.7 meters below the center of radiation of the antenna system, or 5.3 meters above the ground. The ground is essentially flat within the region of concern.

Nearby buildings may have 2 floors, mostly with the first floor 1 meter above ground, typical 1920 residential construction. At 3 meters per floor, this puts the top floor at 4 meters.

There are also buildings with commercial construction nearby, including Ibero's own. The first floor is at ground level and the second floor is at 4 meters.

Since the highest occupied space is less than 5.3 meters, there will be no interference to W248BH

| depression angle below horizon | relative field | db from relative | ERP |  | vertical distance | horizontal distance | clearance above ground | height above ground | interfering V/m | interfering dbu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 1 | 0.00 | 39.00 | 214.413 | 0.000 | 214.413 | 32.000 | 32 | 0.204 | 106.2 |
| 5 | 0.894 | -0.97 | 31.17 | 191.685 | 16.706 | 190.955 | 15.294 | 32 | 0.204 | 106.2 |
| 10 | 0.617 | -4.19 | 14.85 | 132.293 | 22.972 | 130.283 | 9.028 | 32 | 0.204 | 106.2 |
| 15 | 0.272 | -11.31 | 2.89 | 58.320 | 15.094 | 56.333 | 16.906 | 32 | 0.204 | 106.2 |
| 20 | 0.027 | -31.37 | 0.03 | 5.789 | 1.980 | 5.440 | 30.020 | 32 | 0.204 | 106.2 |
| 25 | 0.201 | -13.94 | 1.58 | 43.097 | 18.214 | 39.059 | 13.786 | 32 | 0.204 | 106.2 |
| 30 | 0.234 | -12.62 | 2.14 | 50.173 | 25.086 | 43.451 | 6.914 | 32 | 0.204 | 106.2 |
| 35 | 0.161 | -15.86 | 1.01 | 34.520 | 19.800 | 28.277 | 12.200 | 32 | 0.204 | 106.2 |
| 40 | 0.043 | -27.33 | 0.07 | 9.220 | 5.926 | 7.063 | 26.074 | 32 | 0.204 | 106.2 |
| 45 | 0.066 | -23.61 | 0.17 | 14.151 | 10.006 | 10.006 | 21.994 | 32 | 0.204 | 106.2 |
| 50 | 0.133 | -17.52 | 0.69 | 28.517 | 21.845 | 18.330 | 10.155 | 32 | 0.204 | 106.2 |
| 51 | 0.141 | -17.02 | 0.78 | 30.232 | 23.495 | 19.026 | 8.505 | 32 | 0.204 | 106.2 |
| 52 | 0.146 | -16.71 | 0.83 | 31.304 | 24.668 | 19.273 | 7.332 | 32 | 0.204 | 106.2 |
| 53 | 0.15 | -16.48 | 0.88 | 32.162 | 25.686 | 19.356 | 6.314 | 32 | 0.204 | 106.2 |
| 54 | 0.152 | -16.36 | 0.90 | 32.591 | 26.366 | 19.156 | 5.634 | 32 | 0.204 | 106.2 |
| 55 | 0.152 | -16.36 | 0.90 | 32.591 | 26.697 | 18.693 | 5.303 | 32 | 0.204 | 106.2 |
| 56 | 0.15 | -16.48 | 0.88 | 32.162 | 26.663 | 17.985 | 5.337 | 32 | 0.204 | 106.2 |
| 57 | 0.148 | -16.59 | 0.85 | 31.733 | 26.614 | 17.283 | 5.386 | 32 | 0.204 | 106.2 |
| 58 | 0.144 | -16.83 | 0.81 | 30.875 | 26.184 | 16.361 | 5.816 | 32 | 0.204 | 106.2 |
| 59 | 0.139 | -17.14 | 0.75 | 29.803 | 25.546 | 15.350 | 6.454 | 32 | 0.204 | 106.2 |
| 60 | 0.133 | -17.52 | 0.69 | 28.517 | 24.696 | 14.258 | 7.304 | 32 | 0.204 | 106.2 |
| 65 | 0.097 | -20.26 | 0.37 | 20.798 | 18.849 | 8.790 | 13.151 | 32 | 0.204 | 106.2 |
| 70 | 0.057 | -24.88 | 0.13 | 12.222 | 11.484 | 4.180 | 20.516 | 32 | 0.204 | 106.2 |
| 75 | 0.027 | -31.37 | 0.03 | 5.789 | 5.592 | 1.498 | 26.408 | 32 | 0.204 | 106.2 |
| 80 | 0.008 | -41.94 | 0.00 | 1.715 | 1.689 | 0.298 | 30.311 | 32 | 0.204 | 106.2 |
| 85 | 0.001 | -60.00 | 0.00 | 0.214 | 0.214 | 0.019 | 31.786 | 32 | 0.204 | 106.2 |
| 90 | 0.001 | -60.00 | 0.00 | 0.214 | 0.214 | 0.000 | 31.786 | 32 | 0.204 | 106.2 |

