

TECHNICAL EXHIBIT
APPLICATION FOR CONSTRUCTION PERMIT
WPKF Facility ID 72380, Poughkeepsie, NY
CH 241A, 3.5 KW 80.6M HAAT

This minor modification application proposes to move the transmitting site of WPKF by 0.3KM due to the impending loss of its current location on the Hudson River Psychiatric Hospital. It is proposed to locate the antenna on an existing unregistered 147 foot (44.8M) cellular tower on the same property by extending the tower height by 20 feet (6.1M) to accommodate the antenna. The proposed tower height of 50.9M was run through the FCC's Tower program which indicates tower registration is not required.

Spacing Study and 73.213 Status

WPKF is not fully spaced under 73.207, however it was initially authorized by application BPH-19870414KH which was filed before October 1, 1989 and was fully spaced under the rules in effect at that time for 3 KW Class A stations. It has remained short spaced under 73.207 since first authorized and is thus grandfathered under 73.213(c)(1). As demonstrated in Figure 1, this proposal continues to be fully spaced under 73.213(c)(1) using the spacing requirements equivalent to those of prior rules.

Maximum Effective Radiated Power

The proposed effective radiated power of 3.5KW with an antenna height above average terrain of 80.6 Meters limits the F(50,10) 34dbu contour to just under 98KM and therefore complies with 73.213(c)(1) with respect to the maximum power permitted for an HAAT under 100 Meters.

Figure 1

Comstudy 2.2 Search of Channel 241 (96.1 MHz Class A3) at 41-44-15.7N, 73-54-19.5 W

| Callsign | State | City | Freq | Channel | ERP_w | Class | Status | Distance_km | Sep | Clr |
|----------|-------|------------------|------|---------|-------|-------|--------|-------------|-----|--------|
| WPKF | NY | POUGHKEEPSIE | 96.1 | 241 | 4400 | A | LIC | 0.29 | 105 | -104.7 |
| WPKF | NY | POUGHKEEPSIE | 96.1 | 241 | 125 | A | LIC | 3.92 | 105 | -101.1 |
| WPKF | NY | POUGHKEEPSIE | 96.1 | 241 | 1700 | A | LIC | 3.92 | 105 | -101.1 |
| 870331NY | NY | POUGHKEEPSIE | 96.1 | 241 | 0 | A | USE | 4.49 | 105 | -100.5 |
| WVOS-FM | NY | LIBERTY | 95.9 | 240 | 0 | A | USE | 67.53 | 64 | 3.5 |
| WVOS-FM | NY | LIBERTY | 95.9 | 240 | 6000 | A | LIC | 67.53 | 64 | 3.5 |
| WXNY-FM | NY | NEW YORK | 96.3 | 242 | 26000 | B | LIC | 109.46 | 105 | 4.5 |
| WXNY-FM | NY | NEW YORK | 96.3 | 242 | 12500 | B | CP | 109.22 | 105 | 4.2 |
| WXNY-FM | NY | NEW YORK | 96.3 | 242 | 26000 | B | APP | 109.52 | 105 | 4.5 |
| WXNY-FM | NY | NEW YORK | 96.3 | 242 | 6000 | B | LIC | 110.08 | 105 | 5.1 |
| WXNY-FM | NY | NEW YORK | 96.3 | 242 | 0 | B | USE | 110.08 | 105 | 5.1 |
| WXNY-FM | NY | NEW YORK | 96.3 | 242 | 4600 | B | LIC | 110.08 | 105 | 5.1 |
| WSRS | MA | WORCESTER | 96.1 | 241 | 0 | B | USE | 177.54 | 163 | 14.5 |
| WSRS | MA | WORCESTER | 96.1 | 241 | 16500 | B | LIC | 177.54 | 163 | 14.5 |
| WSRS | MA | WORCESTER | 96.1 | 241 | 20000 | B | LIC | 177.61 | 163 | 14.6 |
| WSRS | MA | WORCESTER | 96.1 | 241 | 13500 | B | LIC | 177.61 | 163 | 14.6 |
| WFOX | CT | NORWALK | 95.9 | 240 | 3000 | A | LIC | 79.55 | 64 | 15.6 |
| WFOX | CT | NORWALK | 95.9 | 240 | 0 | A | USE | 79.55 | 64 | 15.6 |
| WCTO | PA | EASTON | 96.1 | 241 | 0 | B | USE | 179.33 | 163 | 16.3 |
| WCTO | PA | EASTON | 96.1 | 241 | 50000 | B | LIC | 179.33 | 163 | 16.3 |
| WPLJ | NY | NEW YORK | 95.5 | 238 | 19000 | B | LIC | 86.29 | 69 | 17.3 |
| WKSS | CT | HARTFORD-MERIDEN | 95.7 | 239 | 3200 | B | LIC | 90.55 | 69 | 21.6 |
| WKSS | CT | HARTFORD-MERIDEN | 95.7 | 239 | 0 | B | USE | 90.55 | 69 | 21.6 |
| WKSS | CT | HARTFORD-MERIDEN | 95.7 | 239 | 16500 | B | LIC | 90.55 | 69 | 21.6 |
| WTIC-FM | CT | HARTFORD | 96.5 | 243 | 20000 | B | LIC | 91.56 | 69 | 22.6 |
| WTIC-FM | CT | HARTFORD | 96.5 | 243 | 0 | B | USE | 91.56 | 69 | 22.6 |
| WTIC-FM | CT | HARTFORD | 96.5 | 243 | 20000 | B | LIC | 91.56 | 69 | 22.6 |
| WBEC-FM | MA | PITTSFIELD | 95.9 | 240 | 0 | A | USE | 90.84 | 64 | 26.8 |
| WBEC-FM | MA | PITTSFIELD | 95.9 | 240 | 1000 | A | LIC | 90.84 | 64 | 26.8 |
| WBEC-FM | MA | PITTSFIELD | 95.9 | 240 | 2000 | A | LIC | 94.05 | 64 | 30.1 |
| WYJB | NY | ALBANY | 95.5 | 238 | 0 | B | USE | 100.13 | 69 | 31.1 |
| WYJB | NY | ALBANY | 95.5 | 238 | 12000 | B | LIC | 100.13 | 69 | 31.1 |
| WJVC | NY | CENTER MORICHES | 96.1 | 241 | 2650 | A | LIC | 137.08 | 105 | 32.1 |
| 870331MK | NY | CENTER MORICHES | 96.1 | 241 | 0 | A | USE | 139.15 | 105 | 34.1 |
| WAJZ | NY | VOORHEESVILLE | 96.3 | 242 | 470 | A | LIC | 100.13 | 64 | 36.1 |
| 871215MC | NY | VOORHEESVILLE | 96.3 | 242 | 0 | A | USE | 100.25 | 64 | 36.3 |

Radio Frequency Radiation Compliance

The proposed antenna is an ERI LP-2E EPA type 3, full wave spaced 2 bay "rototiller" antenna located atop a self supported tower with its center of radiation at 47.9M above ground level with an effective radiated power of 3.5KW in both the horizontal and vertical planes.

The FCC's "FM Model" computer program (version 2.10) was used to predict the power density at 2 meters above the ground. The ERP for each horizontal and vertical polarization was set at 3,500 Watts, and the antenna type was set to "ERI or Jampro JBCP Rototiller" with 2 elements and full wave spacing. The maximum predicted power density was determined to occur at a distance of 30.8 meters from the base of the tower and does not exceed 15.9 microwatts/cm², or 7.95% of the limit of 200 microwatts/cm² for General Population / Uncontrolled exposure for FM stations. Therefore the proposed operation of WPKF does not exceed the General Population / Uncontrolled exposure for FM stations at ground level.

The tower is surrounded by a chain link fence with a locked gate. Signs are posted on the fence and at the tower base warning of the potential hazard. WPKF along with other users of the site will reduce power or cease operations as necessary to protect persons having access to the tower or antennas from RF exposure in excess of FCC guidelines.