

The Trustees of the University of Pennsylvania
 Application for FM Broadcast Station License to Cover
 Construction Permit BMPED-20130906AAS
 WXPB, Philadelphia, PA -- Facility ID 68229

Exhibit 7A – Transmitter Power Calculation

| | | |
|---|------------------|--------------------|
| Transmit Antenna Gain | | +2.0737 dB |
| ERI Model LPX-5E-HW | | |
| | | |
| 7/8" Transmission Line | Eff 0.963 | -0.1637 dB |
| 14 meters Andrew HJ5-50 | | |
| | | |
| 1-5/8" Transmission Line | Eff 0.609 | -2.1538 dB |
| 341 meters Andrew HJ7-50A | | <hr/> |
| | | |
| Overall Antenna System Gain | | -0.2438 dB |
| <hr style="border-top: 1px dashed black;"/> | | |
| Transmitter Output Power | 2.803 kW | +4.4763 dBk |
| Measured at Line Input | | |
| (Rounds to 2.80 kW) | | |
| | | |
| Overall Antenna System Gain | | -0.2438 dB |
| | | <hr/> |
| Effective Radiated Power | 2.65 kW | +4.2325 dBk |

NOTES:

Antenna Gain based on manufacturer's published specifications.

Transmission Line Efficiency based on FCC Audio Division online calculator for Channel 203 (88.5 MHz)