

W283DR Amendment Transmitter Power Calculation

The TPO was calculated like follow:

- 1) The transmission line is a HJ5-50 7/8" of 46 meters length for a total efficiency of 87.38 percent.
- 2) Scala submitted technical description for this antenna array establish a power gain of 0.7 dBd.
- 3) Transmitter Power Output set to 409 watts with a line efficiency of 87.38 brings an antenna input power of 357.38 watts and then with an antenna array power gain of only 0.7 dbd the ERP gets 0.250.16 rounded to 250 watts as authorized by the FCC.