

W283BE Composite Antenna Description

This proposal is for a composite antenna consisting of 1 Scala CA2 style antenna polarized horizontally and 1 Bext LOG-R-V antenna polarized vertically. Here is the antenna layout:

1. One Bext LOG-R-V (FCC pattern 91324) pointed at 160 degrees true north. This is a vertical only antenna and the ERP on this antenna will be 246 watts. This is the current W283BE antenna with a different orientation and power.
2. One Scala CA-2D (FCC pattern 16126) pointed at 163 degrees true north. This is a horizontal only antenna and the ERP on this antenna will be 72 watts.

This translator will incorporate a 50/50 splitter in the transmission line prior to the antennas. The power input to the power splitter will be 114.4 watts. The output to each antenna from the power splitter will provide 57.2 watts. Additionally, to correctly balance the antenna input power, a 3 db Pad will be inserted in the feed line to the CA-2D antenna.