

Application Questions:

FCC ID: OUSCHV400BTD

Applicant: Axcera

Question: FCC Part 74.735(b)(1) states the maximum ERP of a digital power TV (average power) shall not exceed 300 watts for VHF channels. How will you ensure that this is met given that the conducted output power is 400 watts?

Response: VHF antenna gains can be very low, on the order of a couple of dB in some cases. In a case where such an antenna is combined with a long transmission line run that can exceed 3 dB in loss, a transmitter output power that is greater than the ERP rating would be required. We are type certifying the transmitter at 400W to ensure that it can provide 300W ERP in a system like this. Of course, Axcera does not design the transmission system - this is done by the licensee, typically through the assistance of a consulting engineer, and the responsibility for meeting ERP requirements lies fully with each licensee.