

Anthony Serafini

From: Steitz, Glenn (Nokia - US) <glenn.steitz@nokia.com>
Sent: Friday, August 12, 2016 12:17 PM
To: Anthony Serafini
Subject: RE: Questions for 0461-EX-PL-2016

Tony, I checked with our engineers and their response is below, I'll update the application and remove the 1K00N0N emission designator, let me know if you need anything else.

We can remove the 1K00N0N emission designator from the license application.

We can put our base station northwest, but there will be a UE (mobile station) pointing back at it. We don't plan to tilt the base station upwards, but the UE in this case will be tilted upwards. To date, all of our nomadic/van/cart testing has been pointed towards the horizon.

Yes, the antennas are directional. We have a 60 degree 3 dB beam width. The main beam gain is 14 dBi.

Yes, the mobile stations have the same antenna and transmit at 24.27 W. Same beam width and gain as the base station.

Glenn

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From: Anthony Serafini [mailto:Anthony.Serafini@fcc.gov]

Sent: Thursday, August 11, 2016 3:38 PM

To: Steitz, Glenn (Nokia - US)

Subject: Questions for 0461-EX-PL-2016

Mr. Steitz

Our International Bureau is asking for additional information regarding your application. Please respond to the following:

We have questions about the narrow emission bandwidth of 1K00N0N with 24.27 W (ERP).

What is/are the plan frequency(ies) of this narrow emission of 1K00N0N? If this narrow emission is kept at 5 or 10 MHz of the edges of the frequency range 3.7 to 4.2 GHz, then it might be possible for this narrow bandwidth to operate there.

Are the base station antennas tilted down towards the ground and don't point directly to the horizon? Also, if the base stations can transmit north to north-east and avoid transmission southward, it will help reduce potential interferences. Are the antennas directional? What is the main beam gain and 3dB beam-width?

Are the mobile stations also transmitting 24.27 watts (ERP)? Do they use the same antenna as the base station? What is the main beam gain and 3dB beam-width?

Regards
Tony Serafini