From: oetech@fccsun27w.fcc.gov [mailto:oetech@fccsun27w.fcc.gov]

Sent: Friday, January 09, 2015 10:23 AM

To: Mark Tucker

Subject: Response to Inquiry to FCC (Tracking Number 231311)

Office of Engineering and Technology

Inquiry on 01/08/2015 :

Inquiry:

We produce a 15.247-qualified wireless product called the DNT24 that operates over the 2400-2483.5 MHz band. FCC ID is HSW-DNT24.

The power amplifier in this radio recently went obsolete. We have designed in an equivalent - although not pin-for-pin compatible part - and are asking the FCC to accept a C2PC related to the change.

The DNT24 product line is used in Industrial markets and has a 10+ year lifetime. It is unfeasible to obtain a new FCC ID for the product every time an obsolete part is changed out. RF amplifiers rarely are pin-for-pin compatible and vendors each have their own specialized package. Therefore it is next to impossible to replace an obsolete part with a pin-for-pin compatible substitute. All we can do is replace the obsolete part with a functional equivalent having the same power levels and similar features.

That is what we've done in this case. The obsolete PA is the PA2423L made by Skyworks. The proposed substitute will be the SE2433T also from Skyworks. Both data sheets are attached for your perusal.

The output power of the new units will be set to the value measured in the original submission and will of course be verified as part of the C2PC lab work.

FCC response on 01/09/2015

If you are only making minor changes to the layout to accommodate the new part, and the new chip has the same basic function as the old chip, from an external perspective (internal circuitry may differ) and the radio parameters resulted in no degradation to previously reported parameters then a Class I is permitted. If changes did result in a degradation but still complaint then a class II is required. It is alo important that this is positioned as the same product.

Also separate from this question why does your grant say "This device is not approved

for use in the USA as a frequency hopping spread spectrum (FHSS) transmitter." if this is a mistake have the TCB request the grant be put into audit to correct.

Attachment Details:

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