

## Dward ATCB

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**From:** Tom Tidwell [tom.tidwell@ntscorp.com]  
**Sent:** 06/26/2007 11:28 AM  
**To:** dward@atcb.com  
**Cc:** William Graff  
**Subject:** RE: ATCB0005032 and ATCB0005040 Nokia approvals  
**Attachments:** Relax Guard Band Power Reqs FCC Ltr.pdf

Hi Dennis,

I have attached a couple of documents that might help clarify.

Since these are Base Station Transmitters they are always installed by the wireless service provider who is the licensee and is ultimately responsible for operating in compliance with their license conditions. There may be some instances where there has been a negotiated agreement between the service provider and the owner of the adjacent spectrum (either in an adjacent PCS frequency block or another service). In this instance the FCC will sometimes sanction a higher out-of-band limit based on the agreement between the two parties. It is for this reason that the transmitter equipment needs to have the ability to operate at higher power on all channels. The grant should still indicate that power must be lowered to comply with the Part 24 limits.

In any case the installer always has the FCC grant for the transmitter as well as the station license on hand when performing the installation because they are ultimately responsible for operating in compliance with the conditions of their license and with the FCC rules. In the past approval for these devices has been granted on the basis of a showing that the transmitter can operate in compliance with the  $43 + 10 \log(P)$  limit with some adjustment to power output.

The attached document is in reference to discussions that took place between the EAB and the Wireless Bureau about band edge requirements and what liability the manufacturer may or may not have when they deliver transmit equipment as described above. The history of this is that previously the manufacturer was required to limit in software the rf power output on the band edges. The result of the discussion was that a statement was put in the rules acknowledging that these agreements may be in place and that the manufacturer must show, for certification, only that the equipment is capable of complying with the limits with reduced power.

I am not sure if this is exactly what you need. If not let me know.

Thanks,

Tom

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**From:** Dward ATCB [mailto:dward@atcb.com]  
**Sent:** Tuesday, June 26, 2007 11:04 AM  
**To:** Tom Tidwell  
**Cc:** 'William Graff'  
**Subject:** RE: ATCB0005032 and ATCB0005040 Nokia approvals

Hi Tom

In the response to the June 14<sup>th</sup> comments you state that the band edge power is only reduced in certain situations. However, if this is the case and if the device can operate at full power on the band edge under other conditions, then you would need to show band edge compliance under the highest power conditions. I have not gone back and reviewed that portion of the report, I will do that in a minute, but I believe I remember the band edge power being the reduced power.

If the device can be used at full power on the band edges, please show full power band edge compliance, alternately, please note that the grant notes will mandate lower power levels at all times on the band edges per the report.

06/26/07

On item 2 of the response to the June 14<sup>th</sup> comments you state that the operator select the appropriate level. However, I cannot find this information in the documentation. How does the operator know to do this? While it may be done at the time of licensing, it still needs explanation in the tune up or in the manual. Please point to where in the manual this information is contained. Alternately, please explain why this important information is not needed.

I will continue with the filing, but I will need explanations to the above.

Thanks

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