

Hilton Carr

From: Hilton Carr
Sent: 12 September 2005 10:43
To: Hilton Carr
Subject: FW: 730 FCC Grant Status

From: Scott.Holub@intermec.com [mailto:Scott.Holub@intermec.com]
Sent: 09 September 2005 21:01
To: Hilton.Carr@babt.com
Cc: MLowry@tuvps.co.uk
Subject: RE: 730 FCC Grant Status

Hi Hilton,

When do you anticipate that you can get to changing the verbiage on the EHABTM210 grants? I am holding on a permissive change on this filing until the changes on these grants are completed.

Best Regards,
Scott

-----Original Message-----

From: Holub, Scott
Sent: Wednesday, August 31, 2005 9:59 AM
To: 'Hilton Carr'
Cc: 'Michael Lowry'
Subject: RE: 730 FCC Grant Status

Hi Hilton,

Just a reminder to see if you have had a chance to look at the EHABTM210 grant. I believe that the 20 cm separation and the prohibition against collocation verbiage can be removed from this grant due to the low power of the radio module. Having this grant be a portable configuration helps us with a C2PC that we are currently in process with at the FCC.

Let me know if you have questions.

Regards,
Scott

-----Original Message-----

From: Holub, Scott
Sent: Monday, August 22, 2005 7:46 PM
To: 'Hilton Carr'
Cc: 'Michael Lowry'
Subject: RE: 730 FCC Grant Status

Hi Hilton,

We discussed changing the grant notes on the EHABTM210 over a year ago to remove the 20 cm spacing restriction that was put on the original grant. We have added a couple of Class 2 Permissive Changes to this original grant for the 730 hand held without my picking up that the notes didn't get changed. We are in the process of using this Bluetooth module again in another product that will start out as a portable device.

I am concerned that the FCC will question this, since the 730 is a mobile device with portable conditions. Our new handheld will start out as a portable device and I fear that the FCC will question using the mobile EHABTM210 grant for this certification. Is it possible for you to get these grant notes changed?

Let me know if there are questions.

Best Regards,
Scott

-----Original Message-----

From: Holub, Scott
Sent: Tuesday, July 06, 2004 9:29 AM
To: 'Hilton Carr'
Subject: RE: 730 FCC Grant Status

Hi Hilton,

Those grant notes look good to me.

Let me know if there are other questions.

Best Regards,
Scott

-----Original Message-----

From: Hilton Carr [<mailto:Hilton.Carr@babt.com>]
Sent: Friday, July 02, 2004 10:39 AM
To: 'Scott.Holub@intermec.com'
Subject: RE: 730 FCC Grant Status

Scott,

Sorry for the delay.

I suggest changing the EHABTM210 Grant to read

"Output Power is EIRP. Limited Modular Approval . This module must only be installed and operated in the Intermec family of Handheld computers and compatible hosts in accordance to the installation conditions for satisfying the RF exposure compliance."

Followed by the "CE" Grant note.

The Company name is given rather than the more usual "Grantees" to permit use in with both EHA and HN2 grantee codes.

I have started looking at the 802CF13 grants (original and Permissive changeE0 and will propose wording to you next week.

Please let me know if you are happy with my proposed wording for the BTM210.

Best Regards
Hilton Carr
Task Manager, Certification and Technical Development
On behalf of BABT TCB (UK0004)

12/09/2005

BABT, an accredited UK Certification/Notified Body and company of TÜV Product Service Ltd.,
34 Molesey Road - Walton-on-Thames - Surrey - KT12 4RQ - UK
Direct Tel: +44 (0) 1932 251227 Fax: +44 (0) 1932 251201 Email: hilton.carr@babt.com

-----Original Message-----

From: Scott.Holub@intermec.com [<mailto:Scott.Holub@intermec.com>]
Sent: 02 July 2004 14:07
To: Hilton.Carr@babt.com
Cc: Phil.Dolling@babt.com
Subject: RE: 730 FCC Grant Status

Hi Hilton,

I haven't heard back on this. Are you going to be able to address this issue?

Thanks,
Scott

-----Original Message-----

From: Holub, Scott
Sent: Monday, June 28, 2004 9:22 AM
To: 'Hilton Carr'
Cc: 'Phil Dolling'
Subject: RE: 730 FCC Grant Status

Hi Hilton,

Have you looked at the 730 grants that I asked to have some of the verbiage changed on? I will soon be needing to do some permissive changes to those grants and would like to get them cleaned up before the changes get submitted.

Thanks,
Scott

-----Original Message-----

From: Phil Dolling [<mailto:Phil.Dolling@babt.com>]
Sent: Friday, June 11, 2004 4:28 AM
To: Scott Holub (E-mail)
Subject: FW: 730 FCC Grant Status

Scott,

Hilton has told me this morning that he will be contacting you direct with regard to your requests.

Regards
Phil

-----Original Message-----

From: Phil Dolling
Sent: Monday, June 07, 2004 10:26 AM
To: 'Scott.Holub@intermec.com'
Cc: Michael Lowry; Hilton Carr
Subject: RE: 730 FCC Grant Status

Hello Scott,

12/09/2005

I will have to talk to Hilton on this one because grant note changes are definitely his department. I'll see when is is available.

By the way, how do you wish to proceed on the RTTE TCF for the 700C?

Regards
Phil

-----Original Message-----

From: Scott.Holub@intermec.com [<mailto:Scott.Holub@intermec.com>]
Sent: Friday, June 04, 2004 8:31 PM
To: Phil.Dolling@babt.com; Hilton.Carr@babt.com
Cc: MLowry@tuvps.co.uk
Subject: FW: 730 FCC Grant Status

Hi Phil,

We are currently working on adding collocation permissive changes to the 700C FCC grants. The printer we are working on will also support the 730 hand held. I would like to make the FCC grants for the EHABTM210 and EHA-802CFI3 radios be more common with the grants for the 700C radios. I have asked, and the FCC has agreed to put the grants in audit mode so the the grants can be changed. The FCC does require that BABT does the test changes in the grant notes.

I would like to know if you can make the grant changes so that the notes are similar to the LUBBTM-1 Bluetooth and the HN22011B-2 grants that are attached. I would like the collocation restriction removed from the EHABTM210 grant, and collocation with the EHA-802CFI3 grant added. I would also like the collocation for the EHABTM210 added to the EHA-802CFI3 grant. This will make it easier to add collocation information later on the grants. There is an email trail below if you want try and follow it.

Let me know if you can make these grant changes, and if there are any questions.

Best Regards,
Scott

-----Original Message-----

From: Fry, Dave
Sent: Friday, June 04, 2004 9:27 AM
Cc: Holub, Scott
Subject: RE: 730 FCC Grant Status

Scott, I have the BABT grants in audit mode, attached is some sample grants. I'm on vacation until June 14. I'll check e-mail occasionally and will be home if something comes up that that needs my help.

Thanks, Best Regards,

Dave Fry

NCE, EMC Engineer Intermec Technologies Corporation

550 Second St. SE Cedar Rapids, IA 52401

319 846-2415 within CR office Speed Call 62

12/09/2005

From: Tim Harrington [<mailto:Tim.Harrington@fcc.gov>]
Sent: Thursday, June 03, 2004 7:12 PM
To: Dave.Fry@intermec.com
Cc: Scott.Holub@intermec.com; Tim Harrington
Subject: RE: 730 FCC Grant Status

The original filing for EHABTM210 and the C2pc filing for EHA-802CF13 are in audit mode. Please contact BABT to request note changes. You may want to refer to similar Intermec grant examples if any which list FCC IDs. If TCB changes notes on EHA-802CF13, the original filing will need similar change. I will check EHA-802CF13 original filing for audit mode early next week.

From: Dave.Fry@intermec.com [<<mailto:Dave.Fry@intermec.com>> <mailto:Dave.Fry@intermec.com>]
Sent: Tuesday, May 25, 2004 3:05 PM
To: Tim Harrington
Cc: Scott.Holub@intermec.com; gkiemel@nwemc.com
Subject: RE: 730 FCC Grant Status

Tim,

I have a request to review the grant notes for the FCC ID:

EHABTM210

The notes for the Bluetooth module restrict co-location and require a 20-cm user distance. Since the radio is well below the 5mW limit for SAR, the note for 20-cm spacing does not seem reasonable.

EHA-802CF13

The co-location notes on pervious grants listed the specific FCC ID allowed. The note "as shown in this application" would imply approval but with further integration of the radio with other modules I believe clarifying the grant note to show the FCC ID in the notes would be easier to track approvals.

Both grants should list the co-location approval for each corresponding FCC ID.

Since these approvals are past the 30 day review period what method is needed for the FCC to correct these grant notes.

Thanks, Best Regards,
Dave Fry
NCE, EMC Engineer
Intermec Technologies Corporation
550 Second St. SE
Cedar Rapids, IA 52401
319 846-2415
within CR office Speed Call 62

From: Holub, Scott
Sent: Tuesday, May 25, 2004 1:42 PM
To: Dave.Fry@intermec.com
Subject: FW: 730 FCC Grant Status

FYI

Scott

From: Greg Kiemel [<<mailto:gkiemel@nwemc.com>> <mailto:gkiemel@nwemc.com>]
Sent: Thursday, May 20, 2004 6:40 PM
To: Scott.Holub@intermec.com
Cc: dghizzone@nwemc.com; kvalleen@nwemc.com
Subject: Re: 730 FCC Grant Status

Scott,

12/09/2005

What probably should have happened is to not put any prohibition against co-location or 20cm separation distance on the EHABTM210 grant. Since it is below 5mW EIRP or peak conducted power, it is basically a non-issue for the BT grant. An example of a BT module with good grant notes is LUBBTM-1. Also see the email thread below.

The grant notes for EHA-802CF13 should have called out the BT grant, although the wording "not described in this application" probably covers it. Hopefully the SAR test included some spot checks with the BT transmitting simultaneously.

This is probably worth some additional discussion over the phone to see how you might want to change the BT grant. Perhaps you can ask the FCC to change the grant notes? Normally C2PC add grant notes, not take them away. I'm concerned we will run into trouble if we try to "fix" them through a C2PC. It is probably smarter to just ask the FCC to fix them. Since it is a BABT grant, they will probably put it into "audit" mode and let BABT change the grant notes.

-Greg-

Date: Wed, 23 Jul 2003 17:48:15 -0400
From: "Tim Harrington" <THARRING@fcc.gov>
To: <gkiemel@nwemc.com>
Cc: "Joe Dichoso" <JDICHOSO@fcc.gov>, "Rich Fabina" <RFABINA@fcc.gov>, "Tim Harrington" <THARRING@fcc.gov>
Subject: Email Sent to FCC on 7/2/2003 via TCBC Website

The description indicates 60mW 2.4GHz module with antennas installed at 20 cm, which is typical for laptops with antennas at top of display. The proposed grant note seems to allow co-location with any 5mW or less device, for example installed in the display or keyboard of a laptop. For all these specific conditions, the proposed grant note is appropriate. Other co-location policies and procedures are still under development and will be discussed when available.

Let me know if you have comments or questions before we put this at TCB web.

From: Greg Kiemel
To: Rich Fabina
Date: 7/16/03 9:12PM
Subject: Email Sent to FCC on 7/2/2003 via TCBC Website

Rich,

I haven't seen anything from the FCC on the following item. I was hoping for at least a status. Any feed-back from the Commission would be appreciated.

Email Sent to FCC on 7/2/2003 via TCBC Website:

An applicant is seeking Modular Approval of their mobile 802.11(b) radio operating under 15.247 with a peak conducted output power of 60 mW (max EIRP 1W). The applicant wants to co-locate a Bluetooth radio, FCC ID: LUBBTM-1 with their module. The Bluetooth radio has modular approval, the peak conducted power is below 5 mW, and there are no prohibitions against co-location stated on the Bluetooth grant. Can we issue a grant for modular approval for the mobile 802.11(b) radio with the following prohibition, "The

antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter having higher than 5 mW of conducted or radiated (EIRP) source-based time-averaged output."

Greg Kiemel, Director of Engineering
Northwest EMC, Inc.

At 02:09 PM 5/19/2004, you wrote:

Hi Greg,

Took time to go back through the 730 grants (EHA-802CFI3 and EHABTM210) this afternoon. After going through the old email trail I remembered that this was done by BABT as a TCB because the Bluetooth was less than 5 mW and less than 5% of the higher power radio. There is a second C2PC grant for the EHA-802CFI3 due to a radio redesign on the

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802.11B card. I think that the grants are OK, even though the grant notes still don't look quite right to me. I caught the "transmitter must not be collocated" statement and didn't see the Bluetooth on the 802.11B grant, which threw me off. You may want to examine the grants in case you have questions before you go in to make the new permissive changes.

Let me know if you have questions.

Thanks,
Scott J Holub
Regulatory Compliance Engineer
Intermec Technologies Corporation
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Cedar Rapids, IA 52401
Ph: 319 369 3865
Fax: 319 369 3299
Email: scott.holub@intermec.com