

FEDERAL COMMUNICATIONS COMMISSION  
WASHINGTON, D.C. 20554

SEP 1 1994

IN REPLY REFER TO:

31030/EQU/4-2-4  
1300B4

Mr. Valdis V. Liepa  
University of Michigan  
Radiation Laboratory  
NASA/Center for Space Terahertz Technology  
3228 EECS Building  
Ann Arbor, MI 48109-2122

Dear Mr. Liepa:

This is in reply to your facsimile transmission of August 2, 1994, regarding the labelling of a low power communication device that will be marketed within the U.S. and Canada. You request approval to combine the labels for both countries, permitting a single label to be employed. As indicated, this combined label would read as follows:

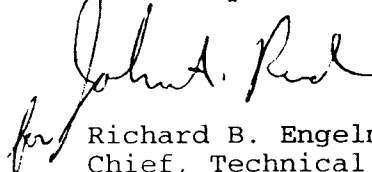
"This device complies with Part 15 of the FCC Rules and with RSS-210 of the Industry Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation."

According to Section 15.19(a) of our rules, a low power communications device operating under Part 15 must be labelled with the specific statement contained in paragraph (a)(3). The only difference between the statement required under our rules and your proposed statement is the addition in the first sentence of the phrase "... and with RSS-210 of the Industry Canada."

I note that Kwai Lum of Industry Canada, in a facsimile to you on August 3, 1994, has already given permission to use this combined label. I also agree that the use of this combined label, as shown above, is acceptable under our regulations. This label conveys the desired information and is essentially identical to our requirement. As expressed by Mr. Lum, text denoting compliance with the standards for both countries was not stated in our rules as "it would be too presumptuous [to assume] that all products are for both markets."

I trust that the above responds to your inquiry. Additional questions should be directed to John Reed, 1300B4, at the address on the letterhead or at (202) 653-7313.

Sincerely,



Richard B. Engelman  
Chief, Technical Standards Branch  
Office of Engineering and Technology

Government of Canada  
Industry CanadaGouvernement du Canada  
Industrie Canada

## FACSIMILE SHEET

## FORMULE D'ENVOI PAR TELECOPIEUR

TO/A: Name/Nom.....: Mr Valdis V. Liepa  
Office/Bureau.: Radiation Lab, University of Michigan, USA  
Tel. No./No. de tél.: Fax: 313-747-2106

FROM/DE: Name/Nom.....: Kwai Lum  
Manager, Radio Equipment Standards,  
300 Slater Street, 13th Floor,  
Ottawa, Canada, K1A 0C8  
Phone: 613-990-4699; Fax: 613-952-5108

Total pages : 1 Date & time sent: August 3, 94.  
Pages totales: 1 Date & heure envoyé:

Our Ref : DGEP-5630-1 (RSS-210 Labelling)

This is to respond to your fax of August 1, 94 requesting that we permit a combined statement for FCC and Industry Canada on the equipment labels.

We wish to assure you that your suggested combined label that you submitted in your fax is acceptable to Canada since our standard (section 5.8 of RSS-210) allows (to quote) ".....equivalent statement.....".

We have made our labelling statement as close as we can to Part 15.19(3); the differences are : we left out the word "harmful" because of difficulties in defining what is harmful. We added the phrase "of the device" to remove any possible misunderstanding.

To re-capitulate, although your proposed statement uses FCC text except for the mention of "RSS-210 of Industry Canada", we consider it to be equivalent. Our preferred text is per RSS-210; the next best is to add the word "harmful" to meet FCC requirements.

Since FCC and Industry Canada are from different countries, we do not consider it necessary to state in our separate standards a combined text. In any case it would be too presumptuous that all products are for both markets.

Our equipment certification staff will be informed of the above. We will also copy this to Mr Reed of the FCC since you said that you sent a similar fax to him.

Regards,



Kwai Lum

cc Mr John Reed (FCC OET fax 202-653-8773).  
cc R. Corey (Equipment Certification).

Re: Certification for Beta Raven Transmitter  
PN: 20543-45  
FCC ID: KSMBR20543-45T  
CANADA: to be provided by IC

POWER OF ATTORNEY

A letter granting Valdis V. Liepa the Power of Attorney is on file and can be provided when so requested.



# BETA RAVEN INC.

A RAVEN INDUSTRIES CO.

4372 Green Ash Drive,  
Phone: (314) 291-4504

St. Louis, MO 63045  
Fax: (314) 291-7984

February 21, 2001

American Telecommunications Certification Body, Inc.  
6731 Whittier Avenue  
Suite C110  
McLean, VA 22101

Re: Power of Attorney for  
Valdis V. Liepa

To Whom it May Concern:

Please be advised that Beta Raven, Inc. authorizes Valdis V. Liepa to act on our behalf, until otherwise notified, for applications submitted to American Telecommunications Certification Body, Inc. (ATCB).

We certify that we are not subject to denial of federal benefits, that includes FCC benefits, pursuant to Section 5301 of the Anti-Drug Abuse ACT of 1988, U.S.C. 862. Further, no party, as defined in 47 CFR 1.2002 (b), to the application is subject to denial of federal benefits, that includes FCC benefits.

Beta Raven Inc.

By   
Pete Gereau  
Division Manager

Applicant: Beta Raven Inc., Earth City, Missouri 63045



UNIVERSITY OF MICHIGAN  
COLLEGE OF ENGINEERING  
THE RADIATION LABORATORY  
DEPARTMENT OF ELECTRICAL ENGINEERING  
AND COMPUTER SCIENCE

3228 EECS BUILDING  
1301 BEAL AVENUE  
ANN ARBOR, MICHIGAN 48109-2122  
734 764-0500 FAX 734 647-2106  
<http://www.eecs.umich.edu/RADLAB/>

Re: Certification for Beta Raven Transmitter  
PN: 20543-45  
FCC ID: KSMBR20543-45T  
CANADA: to be provided by IC

REQUEST FOR CONFIDENTIALITY

Pursuant to 47 CRF 0.459, Beta Raven requests that a part of the subject application be held confidential. This comprises Exhibits

- (5) Schematics
- (10) Parts List (Part of Exhibit only)

Beta Raven has spent substantial effort in developing this product and it is one of the first of its kind in industry. Having the subject information easily available to "competition" would negate the advantage they have achieved by developing this product. Not protecting the details of the design will definitely result in a financial hardship.

If there are any questions regarding this request, please contact me at the above address or call 734-647-1792, (lab) 734-483-4211, fax 734-647-2106 or e-mail [liepa@umich.edu](mailto:liepa@umich.edu).

Sincerely,

A handwritten signature in black ink, appearing to read "Valdis V. Liepa".

Valdis V. Liepa  
Research Scientist  
University of Michigan



UNIVERSITY OF MICHIGAN  
COLLEGE OF ENGINEERING  
THE RADIATION LABORATORY  
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March 28, 2001

Re: Certification for Beta Raven Transmitter  
PN: 20543-45  
FCC ID: KSMBR20543-45T  
CANADA: to be provided by IC

STATEMENT OF MODIFICATIONS

There were no modifications made to the DUT by this test laboratory. (Also see Section 3.1 of the attached Test Report).

A handwritten signature in cursive script, reading "Valdis V. Liepa".

Valdis V. Liepa  
Research Scientist

**GENERAL PRODUCT INFORMATION**

The 20543-45 transmitter, for which certification is pursued, has been designed by:

Beta Raven Inc.  
4372 Green Ash Drive  
Earth City, MO 63045

Pete Gereau, Division Manager  
Tel: (314)291-4504

The 20543-45 transmitter will be manufactured at the following location:

Beta Raven Inc.  
4372 Green Ash Drive  
Earth City, MO 63045

Pete Gereau, Division Manager  
Tel: (314)291-4504

The 20543-45 transmitter will be serviced by:

Beta Raven Inc.  
4372 Green Ash Drive  
Earth City, MO 63045

Tom Kreinbrook, Quality Assurance Manager  
Tel: (314)291-4504

