Flom Test Labs
EMI, EMC, RF Testing Experts Since 1963
toll-free: (866) 311-3268
fax: (480) 926-3598
http://www.flomlabs.com
info@flomlabs.com

Date: April 11, 2006

Federal Communications Commission
Via: Electronic Filing

Attention: Authorization & Evaluation Division

Applicant:	Kenwood USA Corporation
Equipment:	TK-3200
FCC ID:	ALH36923130
FCC Rules:	90, 90.210, 95, Confidentiality, Class II Permissive Change

Gentlemen:

On behalf of the Applicant, enclosed please find Application Form 731, Engineering Test Report and all pertinent documentation, the whole for approval of the referenced equipment as shown i.e.:

a) Application Form
b) Test Report

We trust the same is in order. Should you need any further information, kindly contact the writer who is authorized to act as agent.

Sincerely yours,

Michael Schafer, President

enclosure(s)
cc: Applicant
MS/del

Flom Test Labs
EMI, EMC, RF Testing Experts Since 1963
toll-free: (866) 311-3268
fax: (480) 926-3598
http://www.flomlabs.com
info@flomlabs.com

Transmitter Certification

of

FCC ID: ALH36923130
Model: TK-3200

to

Federal Communications Commission

Rule Part(s) 90, 90.210, 95, Confidentiality
Class II Permissive Change

Date of report: April 11, 2006

On the Behalf of the Applicant:

Kenwood USA Corporation

At the Request of:

Kenwood USA Corporation
Communications Division
3975 Johns Creek Court, Suite 300
Suwanee, GA 30024

Attention of: Joel E. Berger, Research & Development
JBerger@kenwoodusa.com
(678) 474-4722; FAX: -4731

Supervised By: David E. Lee, FCC/IC Compliance Manager

The Applicant has been cautioned as to the following:

15.21 **Information to the User**.

The users manual or instruction manual for an intentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

15.27(a) **Special Accessories**.

Equipment marketed to a consumer must be capable of complying with the necessary regulations in the configuration in which the equipment is marketed. Where special accessories, such as shielded cables and/or special connectors are required to enable an unintentional or intentional radiator to comply with the emission limits in this part, the equipment must be marketed with, i.e. shipped and sold with, those special accessories. However, in lieu of shipping or packaging the special accessories with the unintentional or intentional radiator, the responsible party may employ other methods of ensuring that the special accessories are provided to the consumer, without additional charge.

Information detailing any alternative method used to supply the special accessories for a grant of equipment authorization or retained in the verification records, as appropriate. The party responsible for the equipment, as detailed in § 2.909 of this chapter, shall ensure that these special accessories are provided with the equipment. The instruction manual for such devices shall include appropriate instructions on the first page of text concerned with the installation of the device that these special accessories must be used with the device. It is the responsibility of the user to use the needed special accessories supplied with the equipment.

Table of Contents

Required information per ISO/IEC Guide 25-1990, paragraph 13.2:

a)	**Test Report**
b) Laboratory: (FCC: 31040/SIT) (Canada: IC 2044)	M. Flom Associates, Inc. 3356 N. San Marcos Place, Suite 107 Chandler, AZ 85225
c) Report Number:	d0640007
d) Client:	Kenwood USA Corporation Communications Division 3975 Johns Creek Court, Suite 300 Suwanee, GA 30024
e) Identification: EUT Description:	TK-3200 FCC ID: ALH36923130 UHF/FM Transceiver
f) EUT Condition:	Not required unless specified in individual tests.
g) Report Date: EUT Received:	April 11, 2006 2006-Mar-29
h, j, k):	As indicated in individual tests.
i) Sampling method:	No sampling procedure used.
l) Uncertainty:	In accordance with MFA internal quality manual.
m) Supervised by:	 David E. Lee, FCC/IC Compliance Manager
n) Results:	The results presented in this report relate only to the item tested.
o) Reproduction:	This report must not be reproduced, except in full, without written permission from this laboratory.

Sub-part 2.1033(c)(14):

Test and Measurement Data

All tests and measurement data shown were performed in accordance with FCC Rules and Regulations, Volume II; Part 2, Sub-part J, Sections 2.947, 2.1033(c), 2.1041, 2.1046, 2.1047, 2.1079, 2.1051, 2.1053, 2.1055, 2.1057 and the following individual Parts:

____	21 – Domestic Public Fixed Radio Services
____	22 – Public Mobile Services
____	22 Subpart H - Cellular Radiotelephone Service
____	22.901(d) - Alternative technologies and auxiliary services
____	23 – International Fixed Public Radiocommunication services
____	24 – Personal Communications Services
____	74 Subpart H - Low Power Auxiliary Stations
____	80 – Stations in the Maritime Services
____	80 Subpart E - General Technical Standards
____	80 Subpart F - Equipment Authorization for Compulsory Ships
____	80 Subpart K - Private Coast Stations and Marine Utility Stations
____	80 Subpart S - Compulsory Radiotelephone Installations for Small Passenger Boats
____	80 Subpart T - Radiotelephone Installation Required for Vessels on the Great Lakes
____	80 Subpart U - Radiotelephone Installations Required by the Bridge-to-Bridge Act
____	80 Subpart V - Emergency Position Indicating Radio Beacons (EPIRB'S)
____	80 Subpart W - Global Maritime Distress and Safety System (GMDSS)
____	80 Subpart X - Voluntary Radio Installations
____	87 – Aviation Services
X	90 – Private Land Mobile Radio Services
____	94 – Private Operational-Fixed Microwave Service
X	95 Subpart A - General Mobile Radio Service (GMRS)
____	95 Subpart C - Radio Control (R/C) Radio Service
____	95 Subpart D - Citizens Band (CB) Radio Service
____	95 Subpart E - Family Radio Service
____	95 Subpart F - Interactive Video and Data Service (IVDS)
____	97 - Amateur Radio Service
____	101 – Fixed Microwave Services

Standard Test Conditions and Engineering Practices

Except as noted herein, the following conditions and procedures were observed during the testing:

In accordance with ANSI C63.4-2003, and unless otherwise indicated in the specific measurement results, the ambient temperature of the actual EUT was maintained within the range of 10° to 40°C (50° to 104 °F) unless the particular equipment requirements specify testing over a different temperature range. Also, unless otherwise indicated, the humidity levels were in the range of 10% to 90% relative humidity.

Prior to testing, the EUT was tuned up in accordance with the manufacturer's alignment procedures. All external gain controls were maintained at the position of maximum and/or optimum gain throughout the testing.

Measurement results, unless otherwise noted, are worst-case measurements.

THE AMERICAN
ASSOCIATION
FOR LABORATORY
ACCREDITATION

ACCREDITED LABORATORY

A2LA has accredited

M. FLOM ASSOCIATES, INC.
Chandler, AZ

for technical competence in the field of

Electrical Testing

The accreditation covers the specific tests and types of tests listed on the agreed scope of accreditation. This laboratory meets the requirements of ISO/IEC 17025 - 1999 "General Requirements for the Competence of Testing and Calibration Laboratories" and any additional program requirements in the identified field of testing.

Presented this 14th day of June 2004.

President
For the Accreditation Council
Certificate Number 2152-01
Valid to August 31, 2006

A2LA

For tests or types of tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

A2LA

"A2LA has accredited M. Flom Associates, Inc. Chandler, AZ for technical competence in the field of Electrical Testing. The accreditation covers the specific tests and types of tests listed on the agreed scope of accreditation. This laboratory meets the requirements of ISO/IEC 17025 – 1999 'General Requirements for the Competence of Testing and Calibration Laboratories' and any additional program requirements in the identified field of testing."

Certificate Number: **2152-01**

Expository Statement

Permissive Change

Applicant: Kenwood USA Corporation

FCC ID: ALH36923130

The applicant has made design changes/improvements to the originally FCC approved equipment.

Data contained herein confirms that a Permissive Change to the unit has been effected and that the performance of the unit is at or better than the levels originally reported to the commission.

The following changes/improvements have been made as per attached letter of Explanation:

> The Lithium Ion Battery Pack KNB-45L has been added to the product accessory list. This addition had the potential of changing the SAR characteristics of the EUT. The SAR report that accompanies this Permissive Change shows that the SAR characteristics demonstrated in the original submission are unaffected.

Certifying Engineer: David E. Lee, FCC/IC Compliance Manager

List of General Information Required for Certification

In Accordance with FCC Rules and Regulations,
Volume II, Part 2 and to

90, 90.210, 95, Confidentiality

Sub-part 2.1033

(c)(1): **Name and Address of Applicant**:

Kenwood USA Corporation
Communications Division
3975 Johns Creek Court, Suite 300
Suwanee, GA 30024

Manufacturer:

Kenwood Corporation
14-6, Dogenzaka 1-Chome
Shibuya-ku, Tokyo 150, Japan
OR
Kenwood Electronics Technologies PTE Ltd.
1 Ang Mo Kio Street 63
Singapore 569110

(c)(2): **FCC ID**: ALH36923130

Model Number: TK-3200

(c)(3): **Instruction Manual(s):**

Please see attached exhibits

(c)(4): **Type of Emission**: 16K0F3E, 11K0F3E

(c)(5): **Frequency Range, MHz**: 450 to 470

(c)(6): **Power Rating, Watts**: 2.0

____ Switchable x Variable ____ N/A

(c)(7): **Maximum Power Rating, Watts**:

DUT Results: Passes X Fails ____

Information for Push-To-Talk Devices

Type and number of antenna to be used for this device:
2

Maximum antenna gain for antenna indicated above:
3dBi

Can this device sustain continuous operation with respect to its hardware capabilities and allowable operating functions?
No

Other hardware or operating restrictions that could limit a person's RF Exposure:
No

Source-based time-averaging (see 2.1093 of rules) applicable to reduce the average output power:
No

If device has headset and belt-clip accessories that would allow body-worn operations, what is the minimum separation distance between the antenna and the user's body in this operating configuration?
Yes – See SAR Report

Can device access wire-line services to make phone calls, either directly or through an operator?
No

Can specific operating instructions be given to users to eliminate any potential RF Exposure concerns for both front-of-the-face and body-worn operating configurations?
Users manual / Training

Other applicable information the applicant may provide that can serve as effective means for ensuring RF Exposure compliance:
Users Manual

Subpart 2.1033 (continued)
(c)(8): Voltages & currents in all elements in final RF stage, including final transistor or solid-state device:

Collector Current, A	=	per manual
Collector Voltage, Vdc	=	per manual
Supply Voltage, Vdc	=	7.5

END OF TEST REPORT

Testimonial
and
Statement of Certification

This is to Certify:

1. **That** the application was prepared either by, or under the direct supervision of, the undersigned.

2. **That** the technical data supplied with the application was taken under my direction and supervision.

3. **That** the data was obtained on representative units, randomly selected.

4. **That**, to the best of my knowledge and belief, the facts set forth in the application and accompanying technical data are true and correct.

Certifying Engineer: David E. Lee, FCC/IC Compliance Manager