



**M. Flom Associates, Inc. - Global Compliance Center**

3356 North San Marcos Place, Suite 107, Chandler, Arizona 85225-7176

www.mflom.com general@mflom.com (480) 926-3100, FAX: 926-3598

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Date: May 17, 2000

Federal Communications Commission  
Via: Electronic Filing

Attention: Authorization & Evaluation Division

Applicant: Kenwood Communications Corporation  
Equipment: TK-860HG-1 and TK-862HG-1  
FCC ID: ALH29383210  
FCC Rules: 22, 74, 90, 95  
and 47 CFR 1.1307, Environmental Assessment

Gentlemen:

Attached please find copy of Environmental Assessment for this device. The results have been calculated for, in our opinion, worst case conditions.

The Applicant has been cautioned to include a statement as to the minimum safe distance in the Manual, or other appropriate location.

We trust this will be acceptable to the Commission.

Sincerely yours,

Morton Flom, P. Eng.

cc: Applicant  
MF/cvr



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Date: May 17, 2000

INDUSTRY CANADA  
Certification & Engineering Bureau  
3701 Carling Avenue, Bldg. 94  
P.O. Box 11490, Station "H"  
Ottawa, Ontario, Canada K2H 8S2

Attention: Certification Section

Applicant: Kenwood Communications Corporation  
Equipment: Kenwood TK-860HG-1 and TK-862HG-1  
Specification: RSS-102, Issue 1 (Provisional) Sept. 25, 1999  
[R.F. Exposure (Calculated Results)]

Gentlemen:

On behalf of the Applicant, the RF Exposure Evaluation testing to meet the requirements of Health Canada's Safety Code 6 has been successfully completed. Copies of the report have been sent to the Applicant/Manufacturer.

For your files, attached is a copy of the Declaration of Compliance included with the report.

Should you need any further information, kindly contact the writer who is authorized to act as agent.

M. Flom Associates, Inc.  
per:

Morton Flom, P. Eng.

enclosure(s)  
cc: Applicant  
MF/cvr



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ENVIRONMENTAL ASSESSMENT

for

MODEL: Kenwood TK-860HG-1 and TK-862HG-1

UHF FM Mobile Transceiver

to

INDUSTRY CANADA

GUIDE: RSS-102, Issue 1 (Provisional) September 25, 1999

Health Canada's Safety Code 6

DATE OF REPORT: May 17, 2000

ON THE BEHALF OF THE APPLICANT:

Kenwood Communications Corporation

AT THE REQUEST OF:

P.O. 40470

Kenwood Communications Corporation  
P.O. Box 22745  
Long Beach, CA 90801-5745

Attention of:

Joel E. Berger, Research & Development  
JBerger@kenwoodusa.com  
(310) 761-4409; FAX: -8246


CANADIAN MAINTENANCE FACILITY:

Kenwood Electronics Canada Inc.

SUPERVISED BY:

Morton Flom, P. Eng.

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

- a) TEST REPORT
- b) Laboratory: M. Flom Associates, Inc.  
(FCC: 31040/SIT) 3356 N. San Marcos Place, Suite 107  
(Canada: IC 2044) Chandler, AZ 85225
- c) Report Number: d0050034
- d) Client: Kenwood Communications Corporation  
P.O. Box 22745  
Long Beach, CA 90801-5745
- e) Identification: Kenwood TK-860HG-1 and TK-862HG-1  
Description: UHF FM Mobile Transceiver
- f) EUT Condition: Not required unless specified in individual tests.
- g) Report Date: May 17, 2000  
EUT Received: April 20, 2000
- 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:   
Morton Flom, P. Eng.
- 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.

In accordance with ANSI C63.4-1992, section 6.1.9, 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.



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RSS-102 Declaration of Compliance

**Subject:** Health Canada Safety Code 6

**For:** R.F. Exposure Evaluation

The product/device shown below has been evaluated by M. Flom Associates, Inc. to Industry Canada RSS-102 and has complied with the R.F. Exposure limits for humans.

The Applicant/Manufacturer has been notified and supplied with a copy of the ETR for their files.

This device complies with Industry Canada specification RSS-102.

**MODEL:** Kenwood TK-860HG-1 and TK-862HG-1

**SERIAL NUMBER:** 18220

**TYPE:** 18220

**DUTY CYCLE:** per specs/manual

**MINIMUM SEPARATION DISTANCE:** 25 mm

**AGENT FOR APPLICANT:** M. Flom Associates, Inc

Morton Flom, P. Eng.

**DATE:** May 17, 2000

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Name of test: Environmental Assessment

EUT Description: See Page 2.

Power, Conducted [W] = 40

Test Frequency, MHz = 490

Ant. Gain[dBi] = 2.15

Rated Probe: Narda 8761D Probe = 10  $\mu\text{W}/\text{cm}^2$  to 20  $\text{mW}/\text{cm}^2$

47 CFR 1.1210  
Table 1, (B)

0.3-1.234 MHz: Limit [ $\text{mW}/\text{cm}^2$ ] = 100  
1.34-300 MHz: Limit [ $\text{mW}/\text{cm}^2$ ] =  $(180/f^2)$   
30-300 MHz: Limit [ $\text{mW}/\text{cm}^2$ ] = 0.2  
300-1500 MHz: Limit [ $\text{mW}/\text{cm}^2$ ] =  $f/1500$   
1500-100,000 MHz: Limit [ $\text{mW}/\text{cm}^2$ ] = 1.0

Power[W EIRP]  $(P[\text{Watts,Conducted}] \times G) = 65$

Limit [ $\text{mW}/\text{cm}^2$ ] = 0.32

Limit [ $\text{W}/\text{m}^2$ ] = 3.2

Theoretical safe  $R[\text{m}] = [(P[\text{W EIRP}]) / (4\pi \times \text{Limit}[\text{W}/\text{m}^2])]^{1/2}$

distance:  $R[\text{m}] = 1.27$

$R[\text{inches}] = 50$

TESTIMONIAL  
AND  
STATEMENT OF CERTIFICATION

THIS IS TO CERTIFY THAT:

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:



Morton Flom, P. Eng.