Date: March 1, 2005

Federal Communications Commission Via: Electronic Filing

That Electronic Thing

Attention: Authorization & Evaluation Division

Applicant: Telex Communications, Inc.

Equipment: Telex HT-1000 / Electro Voice CSH-1000

FCC ID: B5DH220

FCC Rules: Radiofrequency Radiation Exposure Limits

47 CFR 1.1310

MPE - Mobiles X Fixed Based Station

Gentlemen:

On behalf of the Applicant, enclosed please find the Supplemental Test Data Report, the whole for Environmental Assessment (MPE) of the referenced equipment as shown.

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,

David E. Lee, Compliance Test Manager

enclosure(s) cc: Applicant DEL/del

M. Flom Associates, Inc. 3356 North San Marcos Place, Suite 107 Chandler, Arizona 85225-7176 (480) 926-3100 phone, (480) 926-3598 fax



Environmental Assessment

for

Mobiles/Fixed Base Station

for

FCC ID: B5DH220

Model: Telex HT-1000 / Electro Voice CSH-1000

to

Federal Communications Commission

47 CFR 1.1310 (MPE)

Radiofrequency Radiation Exposure Limits

Date Of Report: MArch 1, 2005

On the Behalf of the Applicant:

Telex Communications, Inc.

At the Request of: P.O. 315994

Telex Communications, Inc. 8601 E. Cornhusker Highway

P.O. Box 5579

Lincoln, NE 68505-5579

Attention of: Charles E. Conner, Project Engineer

(402) 467-5321; FAX: -3279 E-mail: charlie.conner@telex.com

Jim Andersen

Email: jim.Andersen@telex.com

Supervised By: David E. Lee, Compliance Test Manager



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

a) Test Report (Supplemental)

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: d0520045

d) Client: Telex Communications, Inc.

8601 E. Cornhusker Highway

P.O. Box 5579

Lincoln, NE 68505-5579

e) Identification: Telex HT-1000

Electro Voice CSH-1000

FCC ID: B5DH220

Description: Wireless Microphone

f) EUT Condition: Not required unless specified in individual tests.

g) Report Date: March 1, 2005 EUT Received: February 14, 2005

h, j, k): As indicated in individual tests.

i) Sampling method: No sampling procedure used.

I) Uncertainty: In accordance with MFA internal quality manual.

m) Supervised by:

David E. Lee, Compliance Test 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.



Identification of the Equipment Under Test (EUT)

Name and Address of Applicant:

Telex Communications, Inc. 8601 E. Cornhusker Highway P.O. Box 5579 Lincoln, NE 68505-5579

Manufacturer:			
Telex Communications, Inc.			
FCC ID:	B5DH220		
Model Number:	Telex HT-1000 Electro Voice CSH-1000		
Description:	Wireless Microphone		
Type of Emission:	91K0F3E		
Frequency Range, MHz:	776 - 800		
Power Rating, Watts: Switchable Variable	0.050 X N/A		
Modulation:	AMPS TDMA CDMA OTHER		
Antenna:	Helical Monopole Whip X Other		

Note: For RF Safety test antenna gain taken at the upper range of expected gain (i.e. 0 dBd) and RF Power set to highest nominal power across all channels.





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



September 15, 1999

Mr. Mortou Flam M. Plem Associates Inc. 3356 N. San Marcon Plece, Saite 107 Chandler, AZ 85224

Dear Mr. Flow

I am pleased to inform you that your laboratory has been validated by the Chinest Taipel Bureau of Bitandards, Metrology, and Suspection (BSMI) under the Anis Facilies Econoccui Cooperation Minhal Recognition Arrangement (APIC MRA). Year laboratory in row larmally designated to set as a Condrastity Ameriment Body (CAB) under Appendix R. Panel 2 Procedures, of the APIC MRA between the American Entities in Taiwan (ATT) and the Taipel Economic equipment englished to the Camput Company of the APIC MRA between the American Entities in Taiwan (ATT) and the Taipel Economic equipment englished to Electro-Magnetic Cooperities (SMC) requirements. The among of all walidated and openinsted inhomistics will be peried on the NIST website at https://maista.gov/mas. under the "Auit" caugaty.

As of August 1, 1999, you may submit test data to BSMI to verify that the equipment to be impressed into Chinese Taipal solidizes the applicable BMC requirements. Your assigned BSMI assets is all-24-MC-BASI, you must use this number when sending test reports to BSMI. Your disligation will remain in force and gas your VIAAF and/or AZIA and/or BSMI accreditation remain radio on the CSF 13428.

Piesor sets that BSMI requires that the cetty making application for the approval of regulated equipment must make seth application in person at their Taipei office. BSMI state requires the question of the atthird stripments who are authorized to tage the test respect. Yet can used this information via for CT-Taipei CAS Response Manager at 101-971-5414. I am also exclusing a capy of the caves those that, according to BSMI requirements, most intemprany overposit report.

NIST

If you have any questions, please contact Robert Gladbill at 301-975-4273 or Joe Dhillon as 301-975-5523. We appreciate your consistent in our international conformity assessment activities.

Esceroly, petitle Acellin

Hallinda L. Collins, 75.D. Director, Office of Standards Service

Enclosure

NIST

I am pleased to inform you that your laboratory has been validated by the Chinese Taipei Bureau of Standards, Metrology and Inspection (BSMI) under the Asia Pacific Economic Cooperation Mutual Recognition Agreement (APEC MRA). Your laboratory is now formally designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC MRA between the American Institute in Taiwan (AIT) and the Taipei Economic and Cultural Representative Office (TECRO) in the United States, covering equipment subject to Electro-Magnetic Compatibility (EMC) requirements. The names of all validated and nominated laboratories will be posted on the NIST website at http://ts.nist.gov/mra under the 'Asia' category."

BSMI Number: **SL2-IN-E-041R**

M. Flom Associates, Inc. 3356 North San Marcos Place, Suite 107 Chandler, Arizona 85225-7176 (480) 926-3100 phone, (480) 926-3598 fax

Page 3 of 5 FCC ID: B5DH220 MFA p0520005, d05200455



Standard Test Conditions and Engineering Practices

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

In accordance with ANSI C63.4-1992/2001, 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.

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.



MPE CALCULATION

Power Output = ERP

Frequency = 776 MHz

Uncontrolled Exposure Limit = f/1500 = 0.517333 mw/cm²

 $R_{\text{meters}} = [P_{\text{ERP}}/(4\pi \text{ x Limit})]^{1/2}$

= $[(16.9 \times 10^{-3})/(12.56 \times 5.17333)]^{1/2}$

= 0.016127 m

= 1.6 cm

= less than 1 inch

Supervised By:

David E. Lee, Compliance Test Manager



FCC ID: B5DH220

MFA p0520005, d05200455

(The following will be placed in the Instruction Manual)

Mandatory Safety Instructions to Installers & Users

Use only manufacturer or dealer supplied antenna.

Antenna Minimum Safe Distance: 1.6cm

Antenna Gain: zero dBd referenced to a dipole.

The Federal Communications Commission has adopted a safety standard for human exposure to RF (Radio Frequency) energy which is below the OSHA (Occupational Safety and Health Act) limits.

Antenna Mounting: The antenna supplied by the manufacturer or radio dealer must not be mounted at a location such that during radio transmission, any person or persons can come closer than the above indicated minimum safe distance to the antenna i.e. **1.6cm**.

To comply with current FCC RF Exposure limits, the antenna must be installed at or exceeding the minimum safe distance shown above, and in accordance with the requirements of the antenna manufacturer or supplier.

Base Station Installation: The antenna should be fixed-mounted on an outdoor permanent structure. RF Exposure compliance must be addressed at the time of installation.

Antenna Substitution: Do not substitute any antenna for the one supplied or recommended by the manufacturer or radio dealer. You may be exposing person or persons to excess radio frequency radiation. You may contact your radio dealer or the manufacturer for further instructions.

Warning: Maintain a separation distance from the antenna to a person(s) of at least 1.6cm.

You, as the qualified end-user of this radio device must control the exposure conditions of bystanders to ensure the minimum separation distance (above) is maintained between the antenna and nearby persons for satisfying RF Exposure compliance. The operation of this transmitter must satisfy the requirements of Occupational/Controlled Exposure Environment, for work-related use. Transmit only when person(s) are at least the minimum distance from the properly installed, externally mounted antenna.



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:

David E. Lee, Compliance Test Manager