Date: August 20, 2001

Federal Communications Commission
Via: Electronic Filing

Attention: Authorization & Evaluation Division

Applicant: Telex Communications, Inc.
Equipment: Telex WT-1000/Electro-Voice CSB-1000
FCC ID: B5DB113
FCC Rules: Radiofrequency Radiation Exposure Limits
47 CFR 1.1310
   MPE - Mobiles ___ 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,

Morton Flom, P. Eng.

enclosure(s)
cc: Applicant
   MF/cvr
ENVIRONMENTAL ASSESSMENT

for

MOBILES

for

FCC ID: B5DB113
Model: Telex WT-1000/Electro-Voice CSB-1000

to

FEDERAL COMMUNICATIONS COMMISSION

47 CFR 1.1310 (MPE)
Radiofrequency Radiation Exposure Limits

DATE OF REPORT: August 20, 2001

ON THE BEHALF OF THE APPLICANT:

Telex Communications, Inc.

AT THE REQUEST OF:

Telex Communications, Inc.
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

SUPERVISED BY: Morton Flom, P. Eng.
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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: d0180066

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

e) Identification: FCC ID: B5DB113
   Models: Telex WT-1000 and Electro-Voice CSB-1000
   Description: UHF FM Beltpack Transceiver

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

g) Report Date: August 20, 2001
   EUT Received: June 8, 2001

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.
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: B5DB113

MODEL NOs: Telex WT-1000
            Electro-Voice CSB-1000

DESCRIPTION: UHF FM Beltpack Transceiver

TYPE OF EMISSION: 92K0F3E

FREQUENCY RANGE, MHz: 520 to 608
                      614 to 746

POWER RATING, Watts: 10 mw to 50 mw
                     __ Switchable ___ Variable ___ N/A

MODULATION: ___ AMPS
            ___ TDMA
            ___ CDMA
            __x 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.
M. Flom Associates, Inc. is accredited by the American Association for Laboratory Association (A2LA) as shown in the scope below.

This laboratory is accredited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this report have been determined in accordance with the laboratory's terms of accreditation unless stated otherwise in the report.

Should this report contain any data for tests for which we are not accredited, or which have been undertaken by a subcontractor that is not A2LA accredited, such data would not covered by this laboratory's A2LA accreditation.
Except as noted herein, the following conditions and procedures were observed during the testing:

In accordance with ANSI C63.4-1992/2000, 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 = 47.01 milliwatts

Frequency = 520 MHz

Uncontrolled Exposure Limit = $f/1500 = 0.346\ \text{mw/cm}^2$

Minimum Safe Distance = $R_{\text{meters}} = \left(\frac{P_{\text{ERP}}}{4\pi \times \text{Limit}}\right)^{1/2}$

$= \left[\frac{0.047}{4\pi \times 3.46}\right]^{1/2}$

$= 0.03287\ \text{m}$

$= 3.2\ \text{cm}$

SUPERVISED BY:

Morton Flom, P. Eng.
MANDATORY SAFETY INSTRUCTIONS TO INSTALLERS & USERS

Use only manufacturer or dealer supplied antenna.

Antenna Minimum Safe Distance: 3.2 cm.

Antenna Gain: zero dBi 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. 3.2 cm.

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 harmful 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 3.2 cm.

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: Morton Flom, P. Eng.