

United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION

EXPERIMENTAL
(Nature of Service)

K A 2 X M J
(Call Sign)

XD MO
(Class of station)

S-1037-EX-92
(File number)

NAME ENSCAN, INC.

Vicinity of Chicago, IL
(Location of station)

Special Temporary Authority is hereby granted to operate the radio transmitting apparatus described below:

Frequency MHz	Authorized Power (watts)	Emission Designator
910-920	-53 dBm	*

This authorization is for the purpose of testing a modified version of its encoder receiver-transmitter ("ERT") for utility meters.

This special temporary authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This special temporary authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control by the Government of the United States conferred by Section 706 of the Communications Act of 1934.

This authorization effective March 30, 1992 and
will expire 3:00 A.M. EST. July 30, 1992

FEDERAL
COMMUNICATIONS
COMMISSION

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March 24, 1992

FEDERAL EXPRESS VIA PITTSBURGH

Mr. Franklin Wright
Office of Engineering and Technology
Federal Communications Commission
2025 M Street, N.W., Room 7322
Washington, D.C. 20554

KAR X^m J

Re: Request for Special Temporary Authority

Dear Mr. Wright:

EnScan, Inc. ("EnScan"), by its attorneys, hereby requests special temporary authority ("STA") to use the 910-920 MHz frequency band authorized under Part 15 for low-power communications device transmissions to test a modified version of its encoder receiver-transmitter ("ERT®") for utility meters. The test would take place in Chicago, Illinois, between March 30, 1992, and June 30, 1992.

EnScan is a Minnesota company that currently sells an Accuread® System that allows utilities to reduce or eliminate the need to manually collect utility customer billing data. The ERT® itself is installed on gas, water, or electric meters and transmits data from the meter to a data collection unit in response to a mobile wake-up call. This equipment, Model 40-G, has been certified for use under FCC Identifier EWQ90F2482517-A.

EnScan now has need to test the equipment in a particularly difficult RF environment by transmitting at -53 dBm, a power higher than its certification, although still within the Part 15 output limits of -51 dBm for fundamental emissions. However, in bench tests at the higher fundamental emission level, the 4th harmonic emissions transmit above the power specifications.

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March 24, 1992
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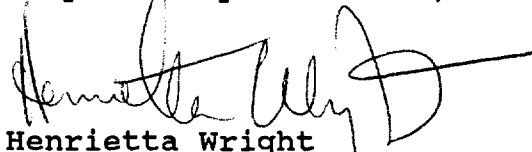
Therefore, EnScan respectfully requests special temporary authority under Part 5 to test at the higher power, in order to determine whether that change can overcome the problems caused by the RF environment (in which case EnScan will seek a new equipment certification for the higher power device).

The proposed test bed will consist of approximately 1000 gas meters in a four-block area of Chicago. In the unlikely event of any harmful interference, the units can be easily located and removed. It is not anticipated that EnScan will require more than a 90-day period in order to determine whether raising the level of the fundamental emissions achieves the desired effectiveness.

For the foregoing reasons, EnScan respectfully requests the grant of special temporary authority to conduct an experimental demonstration of the EnScan system involving approximately 1000 ERT® units in Chicago, commencing on or about March 30, 1992, and ending no later than June 30, 1992.

Please direct any questions to the undersigned.

Respectfully submitted,



Henrietta Wright
Attorney for EnScan, Inc.

Enclosure (check, #118)

cc: Robert Diesch
Richard Geiger