

Rockwell International Corporation
Washington Office
1745 Jefferson Davis Highway
Arlington, Virginia 22202



September 16, 1993

Federal Communications Commission
Experimental Radio Service
P.O. Box 358320
Pittsburgh, PA 15251-5320

Re: Request for Special Temporary Authorization
Call Sign KK2XHR
File No. 6502-EX-R-91

Gentlemen:

Application is made herewith by Rockwell International Corporation for Special Temporary Authorization (STA) to carry out demonstrations and tests of a millimeter wave system for the U.S. Army Communications & Electronics Command (CECOM) under U.S. Government contract No. DAAB07-93-C-B765 utilizing station KK2XHR.

In support for the temporary authority, Rockwell presents the following:

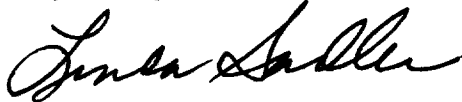
1. The STA is needed to allow demonstrations and testing of six experimental transmitters. Transmissions will be carried out for periods of up to eight hours during daylight hours for a period of 20 days. The station will be located at Rockwell International, Command and Control Systems Division, Building 460, 3200 East Renner Road, Richardson, TX 75082.
2. The type of operation to be conducted is land mobile communications using Chang Industries Millimeter-Wave radios.
3. The purpose of the test is to assess network management of a wireless LAN using Millimeter-Wave radios.
4. The class of station is XR MO.
5. Testing is scheduled to commence October 11, 1993. The period of potential operation for which the STA is requested extends from October 11, 1993 to November 5, 1993.

6. The equipment to be used will consist of the following: six Chang Industries transmitters with 100 milliwatts output employing reflector antennas with 30 dBi gain.
7. Frequencies to be used, in GHz, will be 54.30, 54.60 and 55.20.
8. The power output will be 63 watts EIRP.
9. The type of emission will be 4 ϕ M ϕ F1D.
10. Portable antennas at a nine meter height will be used and will be arranged at distances up to one kilometer apart, oriented toward one another to form a network, at 3200 E. Renner Road, Richardson, TX 75082.

Since testing is to begin within a short period of time, your early attention to this application is respectfully requested. Should you have any questions regarding this application, please direct them to the undersigned at 703-412-6696.

A copy of FCC Form 155 is enclosed along with our check for \$35. It is requested that a date-stamped copy of this filing be returned to the undersigned. A copy of this letter as well as a stamped, addressed envelope is enclosed for this purpose.

Respectfully submitted,



Linda C. Sadler
Manager, Governmental Affairs

Enclosures

cc: J. Aasterud
J. Walker
F. Wright, FCC