

January 12, 1994

Franklin H. Wright
Common Carrier Bureau
Federal Communications Commission
2025 M Street, N.W., Room 7322
Washington, D.C. 20554

Re: Application for Modification of Experimental License
(KA2XHN)

Dear Mr. Wright:

COMSAT World Systems ("COMSAT") is currently authorized to provide INTELSAT C-and Ku-band space segment capacity to certain licensed antennas on seagoing vessels on a non-interference basis, as part of an experimental program aimed at developing studies related to the use of FSS frequencies in the maritime environment. (FCC File No. 3783-EX-PL-93). Condition One of COMSAT's Experimental License (KA2XHN) limits the experimental program to C-band frequencies in support of LDI Technologies, Inc. for Kloster Cruise lines and Ku-band frequencies in support of the U.S. Navy under an experiment with GTE Government Systems.

COMSAT has now received a request from Crescomm Transmission Services, Inc. ("Crescomm") which seeks both C- and Ku-band INTELSAT space segment capacity between February 10 and February 24, 1994 to conduct tests related to the feasibility of providing television transmissions via digital ship earth stations licensed under Part 5 of the Commission's Rules, in the maritime mobile environment. Additionally, COMSAT anticipates that it will receive similar requests for other parties in the near future which have expressed interest in determining the feasibility of using these frequencies for test transmissions for voice, fax, data and video on a non-interference basis, to and from seagoing vessels.

Accordingly, COMSAT herein requests the Commission to modify Condition One of its Experimental License to enable COMSAT to provide INTELSAT space segment capacity to antennas on seagoing vessels, on a non-interference basis, over the course of the KA2XHN Experimental License period, provided that operators of

antennas on U.S. registered vessels have obtained prior Part V authorization.

A grant of authority as requested herein will facilitate the information gathering process and assist in assessing the feasibility of two-way service using C- and Ku-band frequencies in the maritime environment, thereby promoting the public interest.

Respectfully submitted,

COMSAT Corporation
COMSAT World Systems

By:



Robert A. Mansbach
Its Attorney
(301) 214-3459

October 26, 1994

William F. Caton
Acting Secretary
Federal Communications Commission
1919 M Street, N.W., Room 222
Washington, DC 20554

Re: Renewal of Experimental Authorization (KA2XHN)

Dear Mr. Caton:

COMSAT Corporation, by its COMSAT World Systems business unit (CWS), herein files its request for renewal of its KA2XHN experimental license and authorization.

As set forth in greater detail in its attached report, CWS has used its wideband mobile experimental authorization to begin determining the overall viability of wideband mobile services via the INTELSAT system. Renewal of CWS's experimental authorization is extremely important to our customers, including the U.S. Navy, which is extremely pleased with wideband mobile results and is planning expanded testing in the 1995-1997 timeframe. Additionally, future testing will focus on the emergence of inter-related technologies in such fields as emergency telemedicine, the development of enhanced gyroscope stabilizing mechanisms and antenna manufacture, and will contribute valuable information on the use of FSS frequencies in the maritime environment. Accordingly, renewal of CWS's experimental authority, as requested herein, will promote the public interest, convenience and necessity.

Respectfully submitted,

COMSAT World Systems

By:


Robert A. Mansbach
Its Attorney

cc: Frank Wright