

Advanced Telecommunication Technologies, Inc.

1738 Elton Road, Suite 121, Silver Spring, MD 20903

Telephone: (301) 445-6433 Fax: (301) 445-0648

RM8784

Mr. William F. Caton
Acting Secretary
Federal Communication Commission
1919 M Street, N. W.
Room 222
Washington, D. C. 20054

DOCKET FILE COPY ORIGINAL

May 22, 1996

Re: Advanced Telecommunication Technologies, Inc.'s Comments
File No. 96-SAT-P/LA-96

Dear Mr. Caton:

The explosive growth of bandwidth need for telecommunications has spawned many ventures lately. The concept of using high altitude balloons as geostationary telecommunication platforms as proposed by the Sky Station International is very natural and simple. The successful deployment of such a system would, to say the least, revolutionize the telecommunication industry. Most of the needed technologies involved in the launching of balloons or airships to an altitude of 30 kilometers is already there. NASA and others routinely sent balloons up to stratosphere for scientific measurements.

A major piece of invention in this new proposal is the corona ion engine powered by the solar or microwave energy to navigate and anchor the balloon against wind drift. This corona ion engine differs from the plasma thrusters used in satellite navigations in a significant way. It uses the ambient air molecules such as the oxygen molecules as the ion source in contrast to the plasma thrusters using of bottled heavy ion source such as the Cesium element. Its design objective is to deliver maximum thrust at the available power level instead of minimizing the expense of fuel for maximum distance. The efficiency of this ion engine as designed by its inventor, Dr. Wong, is much higher than other mechanical propulsion systems such as the electric fan.

The Sky Station system is designed to provide broad band communication service that could be used to transmit voice, picture and data around the globe which is ideal for the World Wide Web and other future telecommunication services. The ability to provide both fixed and mobile customers with high bandwidth is made possible by the proximity and the stationarity of the Sky Stations.

The saving in launching and maintaining the Sky Stations is reflected in the lower cost projected in this proposal. The estimated ten cents a minute is much lower than other satellite schemes proposed to date.

10
OET

In summary, I believe the Sky Station system is a revolutionary idea based on sound scientific principles and mature technologies. It is poised to take off and will have tremendous impact on the telecommunication industry

Sincerely yours,

A handwritten signature in black ink, appearing to read 'Hsing-Hen Chen', with a long, sweeping horizontal stroke at the end.

Hsing-Hen Chen
President