



THE UNIVERSITY OF MICHIGAN
DIVISION OF RESEARCH DEVELOPMENT AND ADMINISTRATION

3003 South State Street
Ann Arbor, MI 48109-1274

April 8, 1996

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

Dear Sir/Madam,

On behalf of the Regents of the University of Michigan I enclosed an application for an experimental radio station authorization. This application is submitted as part of an Office of Naval Research Project (ONR Grant N00014-95-1-0249) entitled "Measurement of Ocean and Atmospheric Parameters Using HF Radar and Lidar," being carried out at The University of Michigan. The principal investigator in this research (Prof. John F. Vesecky) and his colleagues have operated similar radars in the past under call sign KA2 XTG (file #1185-EX-R-92) and others over some 20 years. They are electrical engineering professionals and will be in charge of the experimental radio station authorization requested here. They have operated these radars very carefully and have had no complaints in some 20 years of operation. The test of the radar is scheduled to begin in 30 to 45 days, hence I ask that this application be processed as rapidly as possible.

The new radar to operate under this station authorization is being built under the above research contract and is substantially similar with respect to radio operation as previous radars and hence requires similar frequency allocations. The new radar will use advance electronic equipment and radar waveforms that are even less likely to cause interference with other services than in the past. Hence no interference problems are anticipated.

A change from past applications is the request for small band of frequencies for operation rather than single frequencies. This is because the radar has a very flexible transmitter and can change operating frequencies easily, making it possible to avoid interference with other services and vice versa.

Your urgent attention to this license application is requested so that we may begin testing and operation on schedule as required by our Office of Naval Research contract. Our technical point of contact at the Office of Naval Research is Dr. Dennis Trizna (703-696-8380). Since this license is requested by the a state institution we understand that the license fee is waived.

Yours sincerely,

Alan W. Steiss
Director,
Division of Research Development and Administration