

0188-EX-ST-1999



March 23, 1999

Mr. Douglas A. Young
1300 - C1
Federal Communications Commission
Experimental Licensing Branch
2000 M Street, Suite 230
Washington, D.C. 20554

Dear Mr. Young:

The Rosenstiel School of Marine and Atmospheric Science (RSMAS) of the University of Miami requests the permission to operate a dual-frequency Doppler radio system to measure ocean surface currents along the shores of the Navy South Florida Testing Facility and Dania Beach near Fort Lauderdale, Florida from 10 June to 15 July, 1999. RSMAS is participating in an experiment that seeks to understand the influence of turbulence as related to autonomous underwater vehicles. The overall experiment is funded by the Office of Naval Research. We have discussed the deployment of the radio system with the local government of the City of Dania Beach, the the Navy South Florida Testing Facility and the Florida State Park. We have checked on possible interference and in all cases, interference was ruled out. We have also obtained the necessary permissions from local, state and military agencies to operate the radio system at the selected sites.

The radio system consists of two shore stations separated about 30 km transmitting electromagnetic signals with a YAGI 4-element antenna and receiving backscatter with a sixteen element phased-array antenna system. The operational characteristics are:

Frequency MHz	Power (Watts)	Emission Designator
25.4	1000 (ERP)	110KPON
49.945	1413 (ERP)	440KPON

Please advise us as soon as possible about granting a special temporary authorization to operate this radio system in the area and during the time described above.

Sincerely yours,

Dr. Hans C. Graber
Director
Radar Ocean Sensing Laboratory
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