

0137-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 lower Florida Keys between Bahia Honda and Boca Chica from 23 April to 28 May, 1999. RSMAS is participating in an experiment that seeks to understand the influence of small eddies on the local reef ecology. The overall experiment is funded by NOAA. We have discussed the deployment of the radio system with the local government of Monroe County, the Naval Airstation at Boca Chica and the Florida State Park which administers the Bahia Honda site. 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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