

30 March 2004

Sirs:

We request permission to transmit at 151.94 MHz and 163.1 MHz for the purpose of communication among weather research vehicles.

Modification and Reduction of Original Request:

During the spring of 2004, we will be able to operate at lower power and over a more limited region than originally requested.

1. We amend our requested power to the lower level of 200 Watts.
2. We amend our requested region of operation to the following states:
WY, CO, NM, ND, SD, NE, KS, OK, TX, MN, IA, WI, MO, AR.

Communication on these frequencies will be sporadic and can co-exist with other users.

Background:

The Doppler On Wheels mobile weather radar vehicles (DOWs) conduct a variety of studies of severe weather and other phenomena. Nearly every spring, the DOWs operate in the Midwestern United States while studying tornadoes. In order to conduct these operations, the DOWs are placed at various locations surrounding thunderstorms, sometimes at ranges of approximately 20 km from each other. Radio communication is required among vehicles in order to coordinate deployments. The location of operations varies every day, and is unpredictable, but covers a wide range of the Midwestern United States.

DOW operations support various government grants, primarily from the National Science Foundation (NSF), but also from USDA(Forest Service), FAA, DOD, and other agencies from time to time.



A DOW in operation collecting data near a tornado in the Texas Panhandle in 2003