

FCC FORM 422 IN SUPPORT OF THE UNIVERSITY OF MASSACHUSETTS
APPLICATION FOR AN EXPERIMENTAL RADIO LICENSE AT 13.4, 35.6 AND
94.92 GHZ.

Item 12: The application is a state university (Univ. of Massachusetts in Amherst).

Further information:

A. The broadcast license for use in radar is part of a grant given to the university of Massachusetts by the National Aeronautics and Space Administration (NASA); Grant number NNX06AE18G: "Triple-Frequency Radar Measurements for CloudSat Validation Measurement Mission Science".

B.) The purpose of this experimental license is to operate a mobile, ground-based radar operating at three frequencies to study the microphysical and dynamic properties of storms and clouds. Use of the three frequencies will allow for determinations to be made relating to the sizes and number density of particles that compose these atmospheric targets. The radars constructed are also capable of measuring Doppler velocity, another important parameter in studying weather dynamics.