

Description of Research Project:

This project is researching the feasibility of a low powered magnetron based weather radar. The equipment will be installed by the University of Massachusetts on the Massachusetts State Firetower #33 under agreement with the Massachusetts Department of Department of Conservation & Recreation. The radar is a RayMarine 4 kW radome radar with attached analog to digital converter and computation. The radar has a peak power of 4 kW and is pulsed with a pulse length of 1 us at a pulse repetition frequency of 740 Hz.