

FORM 442- Question #7

The system that would be operated under this requested license is required by the U.S. Environmental Protection Agency (EPA) as part of the Photochemical Assessment Monitoring Station (PAMS) program. The purpose of this system is to continuously monitor the winds aloft for speed, direction, and temperature. The data collected by this system will be used for pollution forecasting and scientific studies of the creation and transport of atmospheric pollutants and their precursors.

The upper air profiler to be installed is the LAP-3000 915 MHz Radar Wind Profiler and Radio Acoustic Sounding System (RASS) made by Radian Corporation. It is a remote sensing Doppler radar that produces a continuous speed and direction profile of vertical and horizontal winds in clear air, three kilometers or more above ground level. This system was developed jointly by the NOAA Wave Propagation Laboratory, the NOAA Aeronomy Laboratory, and the Radian Corporation.