

Exhibits Referenced on FCC Form 442

Exhibit #1

Frequency, Emission, Modulating Signal, Necessary Bandwidth

The ASR-7/7E is a dual-channel surveillance radar system used to detect aircraft within 60 nautical miles (111.12km) of an airport. The transmitter employs a tunable magnetron whose frequency is tunable from 2.7 to 2.9GHz. The transmitter has a peak power of 425kW and a pulse width of 0.833 microseconds. The radiation pattern is cosecant-squared in the vertical plane and 1.5 degrees wide in the horizontal plane. The system is capable of operating with a fixed pulse repetition frequency (PRF) or in a six-pulse stagger mode. In dual-channel operation, the system operates in a frequency diversity mode. In the frequency diversity mode, both channels are active but transmit at separate times and at separate frequencies, 60 MHz apart.

Transmitter trigger repetition rate is either non-staggered or staggered. The non-staggered mode is switchable at 713, 950, 1050, 1120, 1173 or 1200 pulses per second (PPS). The staggered mode PRF set sequence at 1120, 1050, 1173, 950, 1200 and 713 PPS. Duty cycle of the radar is 0.000594, 0.000791, 0.000874, 0.000933, 0.000977, and 0.00100, respectively.

Exhibit #2

Sensis Corporation and the Air Force Research Laboratory Information Directorate have mutually agreed upon a USAF Cooperation Research and Development Agreement, USAF CRADA Number 98-IF-12, to evaluate ASR-7 () radars using improved technologies. The purpose of this CRDA is to use government facilities at AFRL Verona Research Facility, Verona, New York, in support of Sensis Corporation's research evaluation on ASR-7 () radars. This effort will establish a performance baseline for digitizing the older analog radar systems that friendly foreign countries and the U.S. Government presently employ in the Air Defense and Air Traffic Control areas. The Government will benefit by sharing digitized performance baseline data for upgrading their existing analog radars. The Verona Research Facility provides a low density RF environment to conduct measurements and evaluate hardware with a minimum of RF interference. The facility provides an existing radar tower and hard stand for equipment set up.