

Exhibit # 1
=====

- a) A description of the nature of the research project being conducted.

We need to perform a feasibility study to determine if the Texas Instruments Registration and Identification System (TIRIS) can be used to remotely communicate between a medical ventilator and its exhalation valve body / flow sensor.

- b) A showing that the communications facilities requested are necessary for the research project involved.

We need an efficient, reliable method of identifying the flow equation coefficients with a given exhalation valve body in order to precisely determine delivered flow and volume to the patient. The TIRIS system can deliver the required data in a small space. We believe all this can be accomplished with a miniature antenna, less than one cubic inch. This means that the transponder zone of sensitivity will be under four inches on axis. The zone of sensitivity will be limited to under four inches because the ventilator must communicate only with its valve body, not another ventilator's valve body. Therefore, we absolutely intend to strictly limit the the radiation to only a required value.

- c) A showing that existing communications facilities are inadequate.

The Physicians and Respiratory-Therapists tell us that they want more accurate flow and volume measurements. No other method currently exists to provide this amount of data with each valve body. We are proposing the TIRIS system as a method of holding and reading this data.