

August 21, 2002

Equipment Authorization Branch  
Laboratory Division  
Office of Engineering and Technology  
Federal Communications Commission  
7435 Oakland Mills Road  
Columbia, MD 21046

Gentlemen:

As agent for Data Sciences International, TRP Inc. is herewith submitting an application for certification of a series of Low Power Transmitters operating below 1.705 MHz on a frequency of 455 kHz. These devices are very small, have a very low power output generating a low-level magnetic field that typically communicates with an associated receiver over a range of less than 1 meter. It is implanted with the body of animals for scientific research purposes providing a telemetry output of various biophysical parameters such as blood pressure, temperature, and others.

Each implant is self contained with its own power source and will transmit over the course of a few months at most. There are 17 models that are being included under one FCC ID due to the similarity of the RF output stages. There are differences in the signal conditioning and digital circuits that are associated with the specific physiologic parameter information that is transmitted to the remote receiver, however, the basic RF output technology is common to all models.

The various models are identified in the operational description that is part of this filing. DSI selected 13 of the 17 models to be sent to the test firm for evaluation. The 13 represented the range of products provided by DSI. The test firm performed the necessary measurements of the submitted samples to determine the worst case unit on which to conduct full tests.

Principal differences in these units are the type of transducer or transducers that are coupled to the RF output circuit through the digital circuits that encode the information and the variations in the output coils.

Sincerely yours,

Phillip Inglis  
TRP Inc.