EXHIBIT I
Operational Description

Product Description

Allegro is a self-contained security system that includes a keypad, LCD display, hardwire zone input, siren, receiver and transmitter. The keypad and display are for user control and feedback. The hardwire zone input works in conjunction with common magnetic contacts. The RF receiver is used to monitor any of several sensor/transmitter products. These sensors may indicate the states of doors, windows, or whether or not a smoke detector is tripped. The siren is a piezo type that can give status beeps or sound full volume tones in the event of an alarm. The Allegro can also report an alarm event to a telephone interface module using its transmitter. Because the RF link between the Allegro and the telephone interface is critical to system operation, the Allegro transmits a supervision signal every minute in accordance with 15.231(e). Included in the test report are emission measurements for the alarm transmissions under 15.231(a) designated as "High Power Transmit Mode" and one-minute supervision messages under 15.231(e) designated as "Low Power Transmit Mode."

The microcontroller used is Mitsubishi 3822.

The RF transmitter is a 106.5 MHz oscillator. The third harmonic is filtered off and fed into an amplifier. The amplifier is turned on and off to modulate the carrier. The transmission frequency is 319.5MHz.

The receiver receives 319.5MHz.