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The operation under 15.231(a) and 15.231(e) is detailed on pages 3 and 4 of the operational description (which gives approximate timing information) and reflected in the duty cycle plots (providing the actual signal timing) submitted with the application. There are four types of transmissions as follows:

- **Wake-up control signal** to activate tags in the vicinity of the reader. The command is initiated by the end user. This signal has a total duration of 5 seconds (2.5 seconds sequentially from each of the transmitters). This signal marks the start of an acquisition cycle and is followed by the Hello command and then multiple sleep commands. This signal operates under 15.231(a).
- **Hello control signal** to initiate a response from all tags activated by the wake-up command. This signal is a single pulse of 3.6ms duration to meet 15.231(a). The hello signal is initiated by the end user.
- **Sleep control signal** to de-activate a tag that has responded to the Hello control signal. The command is triggered by responses from the tags to the "hello" signal. This signal is a burst of pulses, each pulse has a 6.6ms duration with no more than 3 transmissions per 100ms (duty cycle < 30%). The total duration of the burst is less than 5 seconds to meet 15.231(a).
- **Data mode signal** to send or request data to/from a tag. This (rarely used) command is initiated by the end user. This signal is a single pulse of 23.2ms duration with no more than 1 transmission per 100ms (23% duty cycle) and a total duration of less than 1 second. Note that the test data uses a duty cycle correction factor for a duty cycle of <=30%. Transmissions are limited to a one second burst in any 30 second period to meet 15.231(e).