

FCC Form 442 Attachment #3
Directional Antenna

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Schmitt has two production systems that integrate automatic RFID inlay testing into their functions. Both of these production machine designs are custom designed and built by Schmitt engineers. One system is called an RFID Qualifier and the second system is called an RFID Slitter/Tester.

The RFID Qualifier incorporates two(2) antennas which are integrated into the automated testing systems. One antenna is a Motorola AN-480 (or equivalent) RFID Fixed Reader antenna that is circularly polarized and is mounted parallel to ground. It is pointed (focused) toward ground. The RFID inlays pass underneath this antenna field as they are being tested. This antenna is used to read multiple RFID inlays at a time as they pass through its field. The second antenna is a small custom metal chamber fully enclosed and is designed to read/write to one inlay at a time. Both of these antennas are integrated into the Schmitt testing systems which are located inside of Schmitt's production facility that is a metal building located at 251 Boston Post Rd., Guilford, CT 06437. Schmitt presently has four RFID Qualifier testing systems used for production testing of RFID inlays, labels, and tags. More of these units may be added if it becomes necessary to increase production volumes.

The RFID Slitter/Tester is also custom designed and built by Schmitt & Co. for its own use. This system integrates four (4) RFID Fixed Readers and four (4) of the same custom enclosed metal chamber antennas as described above that read individual RFID inlays/labels/tags at high speeds. These systems are located in the same facility (metal building) as the RFID Qualifiers described above. Schmitt presently has two (2) of these RFID Slitter/Testers in use and could build additional units when/if production volumes warrant it.

All of these testing systems are utilized daily to test/produce RFID products for the North American market (testing in 902-928Mhz frequency range) and some or all may, from time to time, be adapted to test international RFID products within the frequencies applied for under the Site License submitted.