

XII. Operational Description

Information required by Section 2.1033(b) 1 - 12

1. The Applicant and Manufacturer of is:

SmarTire Systems, Inc.
#150 – 13151 Vanier Place
Richmond, BC V6V 2J1
Canada

2. New FCC ID: **NATTX433TS-2**
3. Please refer to Exhibit VIII Instruction Manual
4. Please refer to Exhibit 12 for a description of the Intentional Radiator circuitry and function.

The details concerning the antenna are uploaded with Exhibit 5.

5. Exhibit 4 is a block diagram of the device.

Information required by Section 2.1033(b) 1 – 12, continued.

6. Exhibit 6 is the radiated emissions test report.
7. Exhibits III and IX are external and internal photographs of device.
8. Data Cables Available:
Does Not Apply
9. This equipment is not subject to the transition provisions of Part 15.37.
10. Does Not Apply
11. Does Not Apply
12. Does Not Apply

Additional Technical Information

1. Technical Characteristics

1a.) Technical description: 433 MHz AM pulsed transmitter

1b.) Transmitter Application: The transmitter is installed within a tire on the rim and used for temperature and pressure sensing and wireless communications to a receiver in the vehicle.

1c.) Power Supply Available: Panasonic Battery – BR1632A-L 3V,

1d.) Antenna available: Part Number: 2.00093. The helical antenna is integrated within the sensor

1e.) Data Cables Available:

Not applicable

1f.) Housing: The transmitter PCB and antenna are integrated within the sensor housing. The antenna is mounted directly to the transmitter PCB.