

## Exhibit 12 Operational Description

### Information required by Section 2.1033(c) 1 - 14

1. The Applicant and Manufacturer is:

Meteor Communications Corporation  
8631 South 212<sup>th</sup> Street  
Kent, WA 98031

2. FCC ID: BIB54506001-01
3. Please refer to Exhibit VIII
4. Emission Designator: 8K0G1D
5. Frequency Range: 36 – 50 MHz
6. Range of Power: Output power is not variable
7. Maximum power rating: 100 Watts at 12 VDC
8. Please refer to Exhibit X for details
9. Please refer to Exhibit X
10. Please refer to Exhibit V
11. Please refer to Exhibits I
12. Please refer to Exhibits III and IX
13. Please refer to Exhibit X
14. Please refer to Exhibit VI containing the requirements of Section 2.1046 through 2.1057 inclusive.

## Additional Technical Information

### 1. Technical Characteristics

1a.) Technical description: The MCC545B Packet Data Radio utilizes BPSK modulation at 4000 bps.

1b.) Transmitter Application: The transceiver can be used for sending and receiving messages, position reporting, data logging, or other specific applications. Designed to operate over a fading ground wave and an intermittent meteor burst communications channel. The MCC545B provides full text message capabilities in either plain text or binary data and can be routed to exchange messages with other single or multiple destinations or to a host computer or data center.

1c.) Power Supply Available: none, requires a 12 VDC nominal (10-14 VDC)

1d.) Antenna available: MCC purchase commercially available antenna's from antenna vendors. The antenna recommended by MCC's engineering staff will vary depending on site conditions.

1e.) Data Cables Available:

1.) MCC P/N 14001352-01 interface cable

1f.) Housing: The transmitter is housed in a rugged weather-resistant stainless steel enclosure 10.6' X 4.0" X 2.42", weighing less than 3 pounds.