EXHIBIT 5 — ANTENNA LOCATION

1. The outdoor antenna does not radiate

The system uses two antennas. The **transmit** antenna is integral to the repeater and is located indoors; it is the sole radiating element of this station and its position is the site given on Form 442. The **outdoor antenna is receive-only** — it contains a low-noise amplifier but emits nothing.

The wall standoff claimed in Exhibit 3, the authorized EIRP, and the containment analysis in Exhibit 4 are all referenced to the indoor transmit antenna. The position of the outdoor receive antenna does not affect any of them.

2. Location

Structure	**Roof of 100 Commerce Park Road, above Unit B**
Mounting	Non-penetrating ballasted roof mount
Antenna	Calian/Tallysman TW3742 (Roger p/n GNSS-TW-3742-ANT)
Height above roof deck	not more than 6 ft
Height above ground level	not more than 30 ft
Quantity	One

The proposed antenna position lies on the roof above the warehouse bay of Unit B, in the vicinity of 41.598087° N, 71.440214° W. The circle in Figure 6 is the 46 ft envelope within which the antenna may be placed without exceeding the supplied 66 ft cable run. The unit boundary shown is indicative; the antenna will be located within the Applicant's leased premises.

3. Aeronautical notice

The structure is approximately 30 ft above ground level, against the 200 ft threshold at 14 CFR § 77.9(a). The site lies approximately 7,500 ft from the Quonset State Airport reference point; at that distance the 100:1 notice surface of § 77.9(b) stands roughly 93 ft above the field elevation of 18 ft AMSL. Even on a conservative assumption of a nearer runway point, the notice surface remains well above the antenna. **No notice under FAA Form 7460-1 is required.**

4. Coaxial cable

The full 66 ft (20 m) of supplied RF240 coaxial cable will be installed without shortening; where the physical route is shorter, the excess will be coiled rather than re-terminated. This matters because cable loss appears in the Exhibit 3 gain budget at 5.5 dB, a figure deliberately below the 6.0 dB the full run presents at 1575.42 MHz. Shortening the run would reduce loss and raise

emission above the declared value.