

FCC Form 442 Confirmation Number EL403842
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May 30, 2013

Antenna Document

A text document is submitted for the antenna as it is more meaningful for this purpose than a sketch.

The proposed antenna, more correctly a series of antenna shapes, will have its center at the apex of a geographic location known as Iron Mound in Greely Township Kansas near the town of Salina. The location has a reasonably flat top of about 100 feet diameter and slopes at about 30 degrees down several hundred feet depending upon direction.

I have an existing amateur radio antenna at that location on a portable tower forty feet high as well as a metal building 8 feet high near the center of the hill. The area is secure with a locked gate and elevation as barriers.

I plan to construct a dipole centered on the hill no more than 15 feet above the terrain in any direction, that at the center, and in most places just high enough not to interfere with cattle grazing there. The dipole will be rotated (moved by moving the supports) in various directions for signal and impedance measurements. The antenna horizontal dimensions will vary as data is developed.

Most of the time the station will be operated in a beacon mode for others operating in this frequency range to copy.

Significant results will be reported in an appropriate journal.

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