

Narrative statement:

Form 442 Confirmation Number: EL8117

Form 442 File Number: 0128-EX-PL-2000

This license application is for an outdoor RF antenna test range. We will use a Hewlett-Packard 8753 Network Analyzer for both the RF source and detection functions. Because this is the maximum power available from the analyzer, we will not radiate more than 10 mW. The source antenna will be stationary, directed southwest of the Aerospace Manufacturing Center at 9675 West 108th Circle Broomfield, CO and downward at an angle of 30 deg. It will be stationary and will emit either a continuous wave (CW) signal or a swept CW signal with no modulation. The antenna under test will be rotated to obtain its radiation pattern.

Our specific objectives sought will be used to qualify antenna designs as adequate for production.

Our program of experimentation has a reasonable promise of contribution to the development and utilization of the radio art by allowing us to develop new antenna designs for commercial purposes.