

EXHIBIT INFORMATION

- a. We are submitting this application to establish our own antenna test range to perform alignment and pattern testing for our multi-band feed applications. Overwatch has a patented approach of broadband, coaxial circular waveguide with independent antenna cavities for each band. This technology allows operation over multiple frequency bands in various reflector designs and sizes. The frequency bands that may be used are C, X, Ku, Ka, and Q-Band. A horn is mounted on top of a 160' tower and transmits a low power signal to our equipment under test which is on ground level approximately 1800' away from the source. This will be used for gain measurements and taking antenna patterns of the equipment under test.
- b. Objective is to have a test range that can be used for testing and verification of all systems produced by Overwatch in these frequency bands. This capability will allow us to provide data to approving authorities and be certified for INTELSAT, PANAMSAT, etc satellites.
- c. This will allow Overwatch systems to deploy multi-band feeds without the use of other range facilities. This capability reduces real estate and O&M costs. It also provides increased frequency flexibility and allows cross-banding where operational and environmental requirements allow. This will be widely used on the new Gapfiller satellites that will be deployed.