

## **Communications, Scatter. FAC: 1311**

CATCODE: 131133

OPR: AFFSA

OCR: AFNIC

1.1. **Description.** Special communications facility that houses high power UHF Radio Transmitters and receivers with large parabolic antennas capable of communicating beyond 150 miles by "scattering" off the troposphere. The facility is also used to span rugged terrain beyond the range of microwave equipment, typically used in arctic and remote regions.

1.1.1. **Ultra high frequency (UHF)** is the ITU designation for radio frequencies in the range between 300 MHz and 3 GHz, also known as the **decimetre band** as the wavelengths range from one to ten decimeters. Radio waves with frequencies above the UHF band fall into the SHF (super-high frequency) or microwave frequency range. Lower frequency signals fall into the VHF (very high frequency) or lower bands. UHF radio waves propagate mainly by line of sight; they are blocked by hills and large buildings although the transmission through building walls is high enough for indoor reception. They are used for television broadcasting, cordless phones, walkie-talkies, personal radio services satellite communication, cell phones and numerous other applications.

1.2. A defined facility standard is not currently available for this CATCODE. By default, all requirements are user justified until a standard is established or adopted.