

Frequency Coordination & FCC Licensing Assistance

Microwave Networks will provide the frequency coordination services and FCC Licensing services for the customer for each microwave path. This provides a 10 year license for the microwave path.

This includes first, performing an interference analysis to determine frequencies that will not cause harmful interference to other existing and proposed microwave paths and earth stations in a particular band. Our Interference Analysis services include:

- Identification of co-located or nearby licensed transmitters.
- Accurate prediction of interfering levels into and from your system, using our proprietary software and factors such as antenna performance, radio filter performance and terrain.
- Identification of available frequencies considering existing and proposed systems. This may include analysis of adjacent or shared bands to detect unwanted threshold degradation or potential earth station interference.
- Documentation of the system parameters including the selected frequencies and any outstanding interference conflicts.

Prior coordination is required by the FCC and begins when the system design is complete. After frequencies are selected, a Prior Coordination Notice (PCN), including a path data sheet, must be sent to all existing microwave users in the area to notify them of the proposed path. The FCC rules state that existing users have 30 days to object to the proposal. Once the 30-day period expires and any objections are resolved, we provide the supplemental showing which must be included in the FCC license application. Our Prior Coordination services include:

- Notification of your proposed system to all existing and proposed licensees in your area and frequency band of operation.
- Case resolution if any licensees are not in full agreement.
- Preparation of documentation required to satisfy FCC Rule Part 101.103 (d).

For the final FCC forms, Microwave Networks will complete the engineering sections of the Private Fixed Microwave Application Form 402. In addition, we will provide the exhibits of the functional system diagram which are required by FCC rules. The end-user will provide information for other sections of the form which relate to shared use of facilities, environmental impact, and other non-engineering aspects of the application.