

EXHIBIT A
Attachment to Item No. 5
Application for Experimental License
Microwave Data Systems

Location of Testing

Microwave Data Systems' plant is located in Rochester, New York. The geographic coordinates of this facility are 43° 07' 06'' North Latitude, 77° 36' 43'' West Longitude.

The type of equipment which will be tested is fixed, point-to-point type radios. One radio will be located at the plant location given above. From one to four additional radios will be located at sites within an 80 kilometer radius of this location. We believe these installations would be considered as being fixed-temporary.

EXHIBIT B
Attachment to Item No. 10
Application for Experimental License
Microwave Data Systems

Purpose of License and Program of Experimentation

The purpose of this Experimental License will be to test new radio technology being developed for application overseas in those countries where frequency allocations are available. The technology replaces much of the analog circuitry and components used in current production radios with software processing incorporated in digital signal processors (DSPs). This technology holds the promise of better spectrum utilization because of the DSP's flexibility in implementing filtering and in shaping of the baseband digital signal. In addition, various algorithms can be incorporated to accommodate squelch, dynamic noise reduction, and other techniques.

We expect to be able to operate a data link at an E1 (2.044 Mbits/sec) rate within a 500 kHz channel. While extensive use of laboratory testing and computer simulation indicates that this is possible and will be a significant contribution to the state of the radio art, it is essential that radios incorporating these techniques be tested in real-world, over-the-air, situations. Our objective is to validate the designs under a variety of real-world installation conditions.

EXHIBIT C
Attachment to Item No. 14
Application for Experimental License
Microwave Data Systems

Station Identification

The radio equipment which will be tested under this license is designed for digital data transmission. As such, there is no provision for station identification.

Therefore, Microwave Data Systems requests that operation under the license be specifically exempted from the requirement for station identification contained in § 5.152, and that the license be so endorsed.

EXHIBIT D
Attachment to Item No. 15
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Antenna Location

In the area of experimental operation, at Microwave Data Systems' plant and surrounding locations, antennas will be mounted on existing buildings, or on existing masts on buildings. The height of the antenna will not exceed 6 meters above the existing structure. In some cases, the antenna may be mounted on existing radio towers. In such cases, the antenna will not exceed the height of the existing tower.

Should a situation arise where the antenna needs to be more than 6 meters above a building or existing structure, or exceed the height of an existing radio tower, Microwave Data Systems will investigate the distance to the nearest aircraft landing area and will coordinate with the District Engineer-in-Charge prior to making such an installation.