

Interstate Mobilephone Service, Inc.
Experimental Station KA2XAC
FCC Form 442
Item 10
Exhibit 1

Explanation of Proposed Modification

Interstate Mobilephone Service, Inc. ("IMS"), licensee of experimental station KA2XAC (File No. 5007-EX-PL-95), hereby requests that its authorization be modified to add an additional location to conduct tests in a 50 km radius around a point in Yakima, Washington more specifically described in Item 5(c)(1) of the instant FCC Form 442. The specific purpose of the proposed modification is to enable IMS to continue to evaluate the propagation of signals in the PCS band for which its sister company, AT&T Wireless PCS Inc., is authorized. In this regard the testing at the proposed site will be virtually identical to that which continues at the existing site in Kirkland, Washington. However, due to the inability to coordinate with certain microwave licensees in the Emerging Technology band at the Kirkland location, IMS finds it necessary to conduct some of its tests at a different location. Authorizing an additional location in Yakima will enable IMS to continue with its valuable testing without creating the potential for any interference to existing microwave licensees in the bands in question and will, therefore, serve the public interest, convenience and necessity.

Antenna Structure Information

The tests to be conducted under the proposed modification will be performed by using mobile vans each of which will be equipped with signal generation equipment. Tests to be conducted may use one or more of the following antenna configurations.

(1) the transmit antenna will be mounted on a variable height mast mounted on a test van or directly on the ground, in which case it will extend no more than 6 meters above the ground;

(2) the transmit antenna will be mounted on top of a building, in which case it will extend no more than 6 meters above the top of the building, and,

(3) where no appropriate building or similar structure is available, the transmit antenna will be mounted on a variable height mast capable of antenna heights up to a maximum of 140 feet AAT.

In case no nearby natural terrain features or buildings of the sort identified in Section 17.14(a) of the Commission's rules would afford shielding to avoid any potential adverse impact on air navigation, and for the period during which the tests are conducted, the test antenna site(s) shall be selected to ensure that the height of the antenna is not greater than an imaginary surface extending outward and upward at any of the following slopes:

(1) 100 to 1 for a horizontal distance of 6.1 km (20,000 feet) from the nearest point of the nearest runway of any airport that is either operated by an armed force of the U.S. or is available for public use and is listed in the Airport Directory of the current Airman's Information Manual, or is under construction and may become operational during the period of the subject test, and which has at least one runway more than 0.98 km (3200 feet) in actual length, excluding heliports, and;

(2) 50 to 1 for a horizontal distance of 3.05 km (10,000 feet) from the nearest point of the nearest runway of any airport that is either operated by an armed force of the U.S. or is available for public use and is listed in the Airport Directory of the current Airman's Information Manual, or is under construction and may become operational during the period of the subject test, and which has at least one runway more than 0.98 km (3,200 feet) in actual length, excluding heliports, and;

(3) 25 to 1 for a horizontal distance of 1.52 km (5,000 feet) from the nearest point of the nearest runway of any airport that is either operated by an armed force of the U.S. or is available for public use and is listed in the Airport Directory of the current Airman's Information Manual, or is under construction and may become operational during the period of the subject test.