

EXHIBIT 1

PARTICULARS OF OPERATION

Astronet Corporation ("Astronet") proposes to use 824 to 849 MHz and 869 to 894 MHz for its proposed experimental cellular communications cell at its Lake Mary, Florida facility. The proposed experimental license is similar in most respects to an experimental license previously granted to Astronet by the Federal Communications Commission ("FCC" or "Commission") on December 1, 1985. See FCC File No. 1138-EX-R-85.

The proposed experimental cell will utilize two bandwidths. Its mobile transmitter will use the 824 to 849 MHz bandwidth, and its base station will use the 869 to 894 MHz bandwidth. With regard to the 824 to 849 MHz requested bandwidth, the technical specifications are as follows:

- (1) Maximum R.F. output power at the transmitter terminal:
3 watts
- (2) Maximum effective radiated power from the antenna: 6
dbw
- (3) MEAN
- (4) Emission type: 40K0F8W (voice); 40K0F1D (data)
- (5) Modulation (frequency deviation of carrier): 3kHz
(voice); 10 kHz (data) at 10 kbits per second
- (6) Necessary bandwidth: 40 kHz

With regard to the 869 to 894 MHz requested bandwidth, the technical specifications are as follows:

- (1) Maximum R.F. output power at the transmitter terminal:
20 watts
- (2) Maximum effective radiated power from the antenna: 100
watts
- (3) MEAN
- (4) Emission type: 40K0F8W (voice); 40K0F1D (data)
- (5) Modulation (frequency deviation of carrier): 3 kHz
(voice); 10 kHz (data) at 10 kbits per second
- (6) Necessary bandwidth: 40 kHz

With regard to both requested frequencies, the necessary bandwidth was determined by the following formula, which applies to a transmitter employing frequency modulation:

$$B = 2M + 2DK$$

Where: M = Maximum modulation frequency in Hz

D = Peak frequency deviation in Hz

K = Variable factor typically equal to 1

Here, M = 10,000 Hz and D = 10,000 Hz. The maximum modulation value is provided above. The peak frequency deviation value is determined by adding the 2,000 Hz required to transmit the supervisory audio tone and the 8,000 Hz required for voice transmissions. Solving the above formula for B results in a value of 40,000 Hz, which equals 40 kHz necessary bandwidth.

EXHIBIT 2

NARRATIVE DESCRIPTION OF EXPERIMENT

Astronet Corporation ("Astronet") requests the Federal Communications Commission ("FCC" or "Commission") to grant it an experimental license for the use of 824 to 849 MHz and 869 to 894 MHz to operate a one-cell cellular communications system for product development.

Astronet was granted a similar experimental license on December 1, 1985 in connection with applications for experimental licenses to operate a three-cell cellular communications system for product development at Lake Mary, Orlando and Lake Buena Vista, all in Florida. See Licenses for Station KO2XFT, Lake Mary, Florida; Station KO2XFW, Orlando, Florida; Station KO2XFV Lake Buena Vista, Florida. The instant request involves a cell only at the Lake Mary, Florida location.

Astronet proposes to use the experimental license to operate a cellular communications system to test new products developed at its Lake Mary, Florida facility and to demonstrate system equipment to its prospective consumers, which are cellular carriers. The cellular products Astronet proposes to test have been in development for more than a year. Astronet's primary research focus is to refine its analog system equipment, such as the mobile telephone switching office ("MTSO") and cell site

equipment, via miniaturization, the incorporation of new technology, and general performance improvement.

Astronet proposes to conduct system tests in order to optimize system hardware and software, and to test service offerings. The product testing otherwise available to Astronet inside a laboratory is limited. Only testing conducted outdoors in an experimental cellular system enables Astronet to simulate actual consumer conditions with its products. Without an experimental license, Astronet would be unable to verify the actual operation of its new equipment. The testing proposed as part of the instant experimental license constitutes the final step in bringing Astronet's improved cellular system equipment to the marketplace.

The mobile units involved in the proposed cellular system will be used only by employees of Astronet and its affiliates. No members of the general public will use the proposed system, and no service for hire will be provided. Astronet will be responsible for all aspects of system operation as well as compliance with FCC rules and the terms of the experimental authorization.

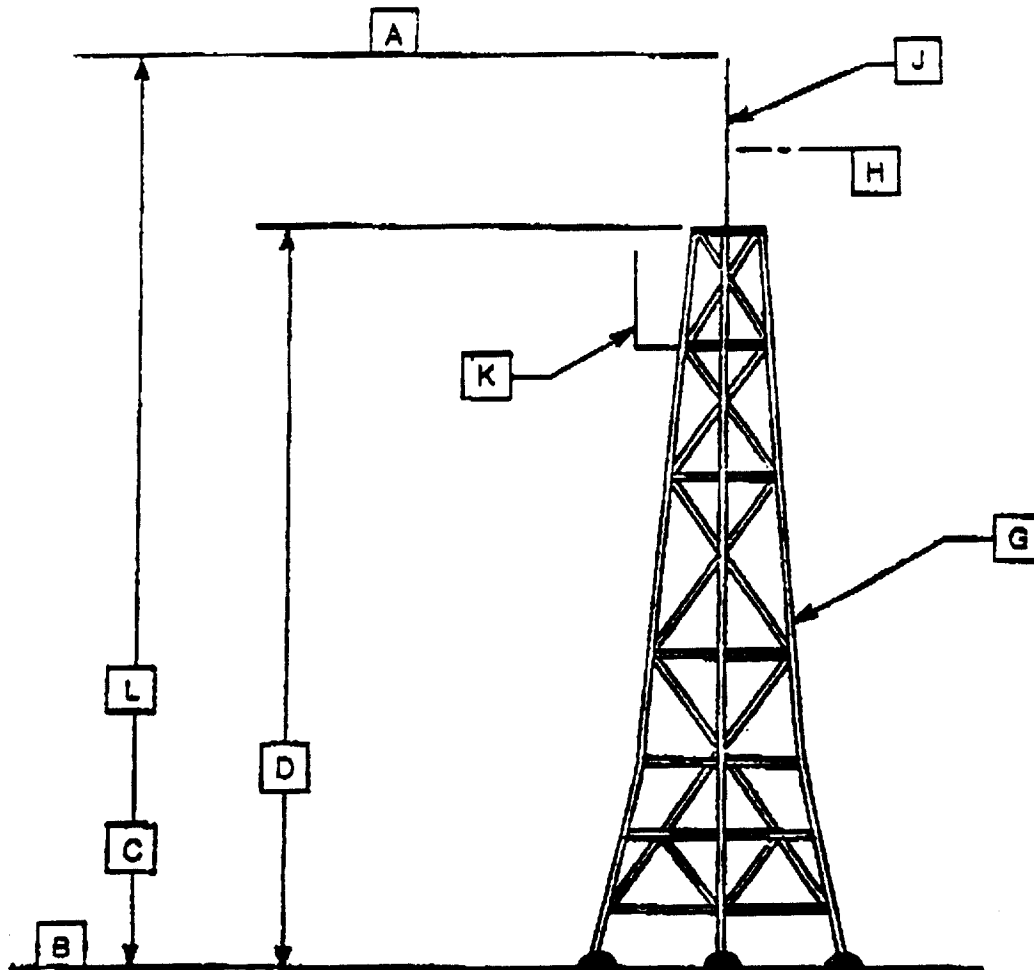
Astronet requests that the station identification requirement of Section 5.152 of the Commission's Rules, 47 C.F.R. § 5.152 (1992), be waived and that a station call sign need not be transmitted after each complete transmission or every thirty minutes. The system equipment in the proposed cell will function

in a manner similar to other cellular radio equipment, which normally does not provide station identification on a periodic basis.

To ensure that Astronet's proposed experimental cellular system will not interfere with existing cellular operators in the area, Astronet already has engaged in negotiations with the potentially affected cellular licensees. The parties have determined and all agree that Astronet's proposed operations at the requested frequencies will not interfere with existing cellular service. As an additional safeguard, Astronet has agreed to suspend operation of its experimental cell on an emergency basis in the event that interference occurs.

Consequently, Astronet respectfully requests the FCC to grant its application for an experimental license because the tests conducted in an experimental cellular system are the only means available for Astronet to verify the actual operation of its refined cellular system equipment before that equipment can be introduced into the marketplace.

EXHIBIT 3
VERTICAL PROFILE SKETCH



PROPOSED SITE NO. SC/M NO. 1

A. Antenna tip	263 ft. AMSL	G. Structure, new X, exists	
B. Ground level	65 ft. AMSL	H. Radiation center	191.5 ft. AGL
C. Antenna tip	198 ft. AGL		256.5 ft. AMSL
D. Structure height	185 ft. AGL	J. TX, ANT: PD-10017,	2 EA.
	250 ft. AMSL	K. RX, ANT: PD-10017,	2 EA.
E. Building height	N/A	L. Highest point	198 ft. AGL
			263 ft. AMSL
F. Penthouse height	N/A	Guyed X Free standing	

Note - For clarity in dimensioning, this drawing is not drawn to scale and all existing antennas are not necessarily shown.