



Partnerships in Global Communication for Health

EXHIBIT 1

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7 April 1994

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H. Frank Wright
Federal Communications Commission
Office of Engineering and Technology
2025 M Street NW, Room 7130
Washington D.C. 20551

Dear Mr. Wright:

Pursuant to our conversations last November, SatelLife, Inc. requests experimental special temporary authority ("STA") in accordance with Section 5.56 of the Rules, to operate three fixed base satellite earth stations for a period of 24 months: 15 April 1994 through 14 April 1996.

The stations would be located at: 1) our corporate headquarters in Cambridge, Mass; 2) the laboratory of Phoenix Systems and Technology in New Harford, N.Y.; 3) the laboratory of BekTek, Inc in Pittsburg, PA. (The latter site is currently licensed under the auspices of VITA.)

The earth stations will be used in conjunction with HealthSat II (HS2) for digital, experimental telecommunications. HealthSat II is a LEO digital packet store and forward satellite built by Surrey Satellite Technology, Ltd. in Great Britain and launched by Arianespace in the fall of 1993.

The frequencies on the spacecraft were placed there at the request of VITA. VITA had contracted to purchase 70% of the capacity of HS2 in order to secure the Pioneer's Preference awarded them by the FCC. However, VITA subsequently failed to follow through on the financial obligations of their contract. They were given four separate opportunities to cure the contract and were declared in default prior to launch. They now have no ownership position in HealthSat II.

SatelLife seeks permission to operate on a non-interference basis. We acknowledge that VITA has primary rights to these frequencies. We also know that VITA will not launch its first LEO until November. We have discussed this issue with VITA and our engineers have studied the potential for interference. With one VITA LEO in a polar orbit there appears to be a 12% window of possible interference over the U.S. (slightly less at 6% over Canada.) We will refrain from transmitting when the footprint of HS2 has any potential of interfering with VITA's spacecraft.

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As you may recall SatelLife is a not-for-profit 501-c-3 U.S. Corporation formed to provide inexpensive and reliable communication for the health sector in the developing world. To date there are ground station licenses in eighteen developing countries (mostly Africa). We do not hold those licenses rather they are held by local entities called HealthNet with representation from the entire health sector (medical schools, Ministry of Health, NGOs, research institutes, national medical library, etc). Some of this work is also done by our colleagues in Great Britain, Canada, and Australia where separate SatelLife's or similar organizations have been formed to foster the same mission.

I have met with the LEO policy personnel at the DOC in Ottawa and they have indicated a willingness to issue experimental licenses for HS2. (Our major gateway is in St Johns, Newfoundland.) A Canadian company has expressed interest in using HS2 for remote sensing and the DOC will issue experimental authority for them as well. We will also operate in Canada on a non-interference basis. Our largest contract to date has been a research grant from the International Development Research Center in Ottawa.

The licenses in the U.S. will be used to develop miniaturized ground stations and more sophisticated software protocols. SatelLife has rights to use all of these developments without additional cost with the NSF contract DPP-89-22832, which utilizes UoSat 3 (aka OSCAR 14). When the new protocols are ready for operational use, they will be loaded on UoSat 3. The primary contractor on DPP-89-22832, Antarctic Support Associates of Englewood, Colorado is very interested in the miniaturized equipment for use by it remote parties of scientists in the Antarctic. The new protocols are essential to prevent degradation of design throughput due to multiple stations using the existing ALOHA protocol.

Phoenix Systems & Technology and BekTek will be the primary contractors developing this new equipment and the new software protocols. The stations at those sites will be used for development and testing only.

These three stations will be operated under the authority and direction of SatelLife. At the Cambridge, MA location the operator will be Professor Dieter Klein; at the Bethal Park, PA location the operator will be Harold Price; at the New Hartford, N.Y. location the operator will be Michael Hughes.

I have submitted the applications to the FCC, Experimental Radio Service as specified in the applications you gave me. I am sending this letter for reference purposes. Thanks you for your assistance and advice.

Sincerely,



Charles Clements, M.D.
Executive Director