

EXHIBIT 1

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Frequency (A)	(B)	POWER (C)	(D)	EMISSION (E)	MODULATING SIGNAL (F)	NECESSARY BANDWIDTH (G)
137.50 MHz	1.0 KW	20.0 KW	1 KW peak	F	8 kilobaud	16 KHz

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SAIC is presently under contract to the Naval Underwater Systems Center (NUSC), New London Laboratory, to conduct research and development work on scatter mode communication systems capable of supporting U. S. Navy communication requirements at high latitudes.

The general objective of SAIC's work is to develop an in-depth understanding of meteor burst and other scatter mode system performance trade-offs and channel characteristics. The work is experimental and developmental in nature. Radio links will be operated at different frequencies in order to obtain a statistically significant data base. The specific program objectives are:

- (1) Characterize the performance of various candidate antenna subsystems suitable for high latitude deployment; and**
- (2) Study scatter communication performance for individual links using various protocols and waveforms.**

Each of these objectives will be met using a combination of analytical and experimental techniques. The principal analytical tools will be NEC-3 for antenna studies, SAIC's proprietary METEORCOM simulation software for MB modeling, and other computer models as appropriate. Experimental work will include fabrication and testing of candidate antennas, integration of radio equipment, link testing, and support of or participation in NUSC's FY91 ICE-X experiment.

This work will be performed at frequencies from low HF through mid-VHF. SAIC therefore requests that the FCC provide an experimental license for each of the ten frequencies requested in the application.

The NUSC contract number is N66604-90-C-1100. If the FCC requires additional information, the following individuals may be contacted directly:

Questions concerning contractual details should be addressed to Mr. William S. Hurley, Naval Underwater Systems Center, Commercial Acquisition Dept., Code 0911, Howard Street, Shaw's Cove Four, New London, CT 06320-5594, telephone 203-440-5768. Technical questions should be addressed to Mr. Joseph R. Katan, Electromagnetics Directorate, Code 3411, NUSC, New London, CT 06320, telephone 203-440-4707.