EXHIBIT 1

The information contained herein is provided in connection with the attached application to obtain a special temporary authorization (STA), pursuant to Sections 5.55(d) and 5.61 of the FCC's Rules, 47 C.F.R. §§ 5.55(d), 5.61 (2003). This STA is one of four related requests involving a subset of channels in four different frequency bands. See File Nos. 0366 EX-ST-2004, 0367- EX-ST-2004, 0368-EX-ST-2004 and 0369-EX-ST-2004.

(1) NAME AND ADDRESS: SOUTHWEST RESEARCH INSTITUTE

6220 Culebra Road P.O. Drawer 25810

San Antonio, Texas 78238-0510

If additional information is required or should you have any questions regarding this application, please contact Ms. Monica Trollinger, Senior Attorney, at (210) 522-6024 or mtrollinger@swri.org.

(2) NEED FOR SPECIAL ACTION: Temporary authorization is required so that the applicant may perform operational tests on experimental equipment developed to meet U.S. military requirements pending action on a complementary application seeking a regular authorization or license.

Southwest Research Institute ("SwRI") is an independent, not-for-profit, applied engineering and development organization devoted to technology development and transfer. Business is conducted with the industry and government (U.S. and other friendly nations) on a worldwide basis. Approximately 50% of the SwRI's business is for the U.S Government.

SwRI has been involved in direction finding (DF) research and development since 1951. Direction finders are receive-only devices utilizing the energy of passing electromagnetic waves to determine their direction of arrival. Direction finding systems can then be used to determine the direction to an emitter. The original DF research and development has expanded to include, among other things, the interception and recognition of a large number of standard and special signals.

SwRI is now working with a number of U.S. Government agencies, including the U.S. Navy, Army, and Air Force Intelligence Services. It provides systems engineering services using RF equipment covering a frequency range from 6 kHz to 26 GHz. These systems provide signal acquisition, recognition, and direction finding for different emitter types. In order to test these systems adequately, the controlled transmission of low power radio wave signals of various modulations is necessary across a broad range of the frequency spectrum. These transmissions are not continuous, and are only for a brief period of time during the testing stages of a given contract. Typically, these transmissions will last from a few seconds to a few hours at most.

Current government contracts with an agency of the United States Government requiring the development of the mentioned systems are listed as follows:

- 1. SPAWAR-Charleston-COBLU-00C6383 (sub to BAE System)
- 2. SPAWAR-Charleston-TRDF-N65236-00-D7026
- 3. SPAWAR-Charleston-TRDF-N65236-02-P-2372
- 4. US Government-Shortroot-N68786-98-C-6659
- 5. SPAWAR-Charleston-Shortroot-N65236-98-C-6659
- 6. Sub to Computer Science for US Government- Salicon-S-1655
- 7. MPO-MDA904-02-C-0988
- 8. Next Century Corp (SBIR)-USZA2203C0008 & USZA2203C0057
- 9. Windermere (SBIR)-USZA2203C0008
- 10. Windermere (SBIR)-USZA2203P0038T05559
- 11. SPAWAR-Charleston-COBLU-0207-04-01 (Sub. to Argon Engineering)
- 12. SPAWAR-Charleston-UAV DF Support-98-C-6659-03-004
- (3) TYPE OF OPERATION TO BE CONDUCTED: Short term and short duration transmission of low power RF across a number of frequencies to verify proper operation of radio direction finding antenna systems, related equipment, and SIGINT collection platforms in an ambient far-field environment.

SwRI must transmit signals to test the systems in real-world environment. The systems are designed to process planar wavefronts in the far-field of the transmit source. The transmitter must be located at a significant distance from the receiver and, therefore, real-world conditions cannot be simulated by testing in an anechoic chamber of any realistic size. Typical testing of systems at SwRI is intermittent. SwRI transmits for only a few seconds to one or two minutes for a given test frequency and is always at a low power level (< 10 watts input to antenna). On extremely rare occasions, SwRI might need to transmit for a few hours, especially in the HF frequency range when HF skywaves reflected off the ionosphere change significantly over time and day/night transition. Once the test is complete, there can be a period of several months before another system is ready for testing. Because the systems are used to monitor and direction find on any frequency that is identified in its contractually specified operating frequency range, a large number of test frequencies is required.

- (4) TIME AND DATES OF PROPOSED OPERATION: The tests will be performed during the time period of June 15, 2004 through November 15, 2004.
- (5) CLASS OF STATION: Experimental Fixed and Mobile NATURE OF SERVICE: Communications Research
- (6) LOCATION OF OPERATION: The operation will be conducted at Southwest Research Institute. The fixed/base transmitters will be located at coordinates 29° 26' 29"N. Latitude and 98° 37' 56" W. Longitude. Mobiles will operate within Bexar County, Texas, with an approximate center of mobile operation at the coordinates 29° 26' 29"N. Latitude and 98° 37' 56" W. Longitude.

(7) EQUIPMENT TO BE USED, INCLUDING NAME OF MANUFACTURER, MODEL AND NUMBER OF UNITS.

The following equipment is representative of the antennae, amplifiers and other equipment that will be tested under this STA:

EQUIPMENT	MANUFACTURER	MODEL	QTY
Antenna	AEL	APN1696	2
Antenna	EMCO	3106	1
Antenna	EMCO	3115	1
Antenna	EM Systems	10-127438	1
Antenna	Tecom	813355-1	1
Amplifier	Amplifier Research	AT4002A	1
Amplifier	Amplifier Research	10W1000	2
Amplifier	Amplifier Research	5W1000	1
Signal Generator	Agilent	8656B	1
Signal Generator	Agilent	8656D	1

(8) FREQUENCIES DESIRED:

See Application

(9) POWER LEVELS:

See Application

(10) TYPE OF EMISSION:

See Application

(11) OVERALL HEIGHT OF ANTENNA STRUCTURE ABOVE GROUND: The height of the fixed/base antennae will not be greater than 18 feet.