

Exhibit 1

PUBLIC INTEREST STATEMENT

1. Introduction

By the instant application (“Application”), Science, Engineering, and Technology Associates Corporation d/b/a SET Corp., a wholly-owned subsidiary of SAIC (“SET”) requests that the Commission grant Special Temporary Authority (“STA”) to SET to operate the facilities (the “Facilities”) specified in the Application.

2. Purpose and Scope of Operation

SET, founded by scientists from the Defense Advanced Research Projects Agency (“DARPA”), offers engineering services to U.S. Government customers with advanced research and development missions. SET’s Advanced Technology team develops intelligent information technologies that add value through integration and automation, and specializes in multi-sensor products designed to counter the growing number of deadly security threats faced by homeland security and defense customers. The testing for which authority is sought in the instant Application is a critical part of the manufacture and delivery of such systems to the Armed Forces in support of Homeland Security as well as war efforts, and ultimately to state and local law enforcement and security personnel.

The specific purpose of the system for which authority is requested is described at Exhibit 3, which is subject to SET’s “Confidentiality Request” attached to the Application at Exhibit 2. As a general matter, the instant Application seeks Commission authority to operate the specified Facilities within a 100 km radius of the specified centerpoint.

3. Other Technical Information

Single aperture:	The attenuator is set to 0 dB; CW transmit power is 70 mW (0.070 Watts); Gain is 44 dBi, 10 inch diameter.
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4. Interference Mitigation

Operation of the requested Facilities will not be continuous. Rather, authority for only limited and sporadic operation of the Facilities is requested during the authorized timeframe, i.e., at any given authorized location, the cumulative period of operation in any given 24 hour period will be no more than 8 hours. In the off state, no measurable power will be radiated. In addition, only two (2) units will be operated at any given time at any of the specified locations in the STA Request.

The transmit antenna is highly directional, and will lock on its targets during transmission rather than rotating during transmission.

SET understands that FAA (or other stakeholders) may require certain limited azimuth and/or elevation blanking in order to ensure that the proposed Facilities do not pose a threat of interference to adjacent emitters. Accordingly, this is to confirm that the subject radar system does have such blanking capabilities and that SET stands ready to work with FAA to identify any reasonably necessary azimuth and/or elevation restrictions for the system.

Authority is requested for only limited and sporadic operation of the facilities during the authorized timeframe. Specifically, operation of the facilities will occur only from 7:00 am – 5:00 pm local time. The majority of operations of the facilities will be conducted inside the laboratory. In addition, during those hours, operation will be sporadic, not continuous. In fact, there may be extended periods of non-operation during the authorized period, while other non-RF transmission aspects of the experiment are conducted.

Based on the location of the experiment, the technical parameters of the operation, and the manner in which the experiment will be conducted, interference to any co-channel or adjacent channel operations (including for example radio astronomy) is mitigated.

5. Discussion re: Power

Although the ERP entered in our application gives the impression of higher power, the actual power into the transmit antenna is only about 1/10 watt (less than many walkie-talkies). The reported ERP is deceptive because we are using an antenna with a very narrow beamwidth (44 dBi gain at 93.5 GHz). The ERP is the Equivalent or Effective Radiated Power. It is how much power would have to be input into a dipole antenna (very broad beamwidth) to equal the power density in the peak of the beam of our very narrow beam antenna. 1000 watts into a dipole would melt most dipoles. By using such a narrow beam antenna, we are greatly reducing the emissions in all directions except where we are measuring. The narrow beam of our antenna and good control of antenna sidelobes reduce our stray emissions greatly.

6. Prevention of Interference

SET hereby advises the Commission that SET's Jeff Lau will personally monitor the experiments for which authority is requested, and will act as a "stop buzzer" if any issues regarding interference arise during testing. Mr. Lau's wireless number for this purpose will be: (703) 901-9831.