

**Narrative Statement**

Description of Proposed Experimental Operation

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**Exhibit 1**Educational Broadcasting Corporation  
New York, NY

Educational Broadcasting Corporation ("EBC"), the licensee of Instructional Television Fixed Service ("ITFS") station WHR-828 in New York, NY, is a subcontractor with SRI International and Sarnoff Corporation. SRI and Sarnoff, on behalf of their joint venture Rosettex Technology and Ventures Group, have entered into a Prime Agreement (Agreement Number NMA401-02-9-2001) with the National Imagery and Mapping Agency (now the National Geospatial - Intelligence Agency ("NGA")) to develop infrastructure for a program called Smart Dissemination Networks. Utilizing the bandwidth authorized to EBC for ITFS station WHR-828, this project will put in place a pre-operational demonstration of the use of digital spectrum for distributing emergency alerts, emergency response information, and command and control information to the public, first responders, and homeland security personnel. To support this system development, EBC is requesting an authorization to conduct system performance trials within its existing service area to determine the relationship between theoretical performance predictions and actual system performance of new technology for high speed Non-Line Of Sight ("NLOS") wireless broadband service under the unique urban signal propagation conditions typical in New York City.

With this Experimental Authorization, EBC, in partnership with various emergency agencies such as NYPD or FDNY, will be able to test the transmission of high-speed data and/or video to units on the street. This will provide these first responders with up-to-the-minute mission-critical information in times of a disaster. EBC believes that use of the ITFS spectrum is ideal for this type of short-duration information service because it will not interrupt time-sensitive broadcasts of information to the general public (as would regular television broadcast channels), it can be encrypted, and it would be available in an emergency with minimal or no disruption to the existing users of EBC's ITFS service.

In addition to the downstream transmission of data, EBC's Experimental Authorization will permit the use of a portion of the allotted bandwidth to test upstream data transmission, e.g., from a fixed/mobile incident command post to the New York City Office of Emergency Management, FDNY, NYPD or other NYC public safety agency. This will enable various agencies to transmit data (and possibly video) from an incident scene to the City's Emergency Operations Center or other designated location, thereby enabling a more effective emergency response.

To permit such transmissions, system tests will include evaluation of uplink receive facilities at various locations. At least two of these sites will be in lower Manhattan and will be coordinated with the New York City Fire Department; a third receive site will be collocated atop the Empire State Building with the existing downstream transmission facilities. The fixed uplink receive sites will receive digital data and/or video from the command post located at an incident scene.

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Experimental Authorization will enable EBC to develop and test a communications system that will ultimately serve New York City's Emergency Management and Disaster Response needs while not affecting the existing educational users of this ITFS system. An important aspect of these trials is to determine the coverage capabilities of this new type of wireless communications system to a variety of potential incident scene locations. The results will be used to establish the minimum system design specifications required to achieve reliable coverage in this unique urban environment.

Parameters to be determined by the system tests will include the following:

- Maximum coverage area from a single hub site
- Signal reliability over time
- Signal penetration losses through foliage and building walls
- Changes in signal propagation due to weather conditions
- System durability based on the number of users simultaneously accessing the network

Up to 10 test sites will be utilized at various distances from the hub site.

Equipment tests will be conducted on ITFS channel C4 and within the protected service area currently authorized for EBC under ITFS station license WHR-828. EBC will conduct these tests in a manner to prevent interference, as defined in Part 74 of the Commission's Rules, to other authorized ITFS facilities. Worst-case interference studies found that the facilities will operate without any adverse impact on other operating stations. If interference from these experimental operations occurs to other ITFS facilities, the tests will be suspended pending resolution of the interference.

The data obtained from these tests will contribute to the further development and utilization of ITFS spectrum for deployment of high speed wireless emergency broadband services. Upon successful completion of these trials, EBC plans to make application to the Commission requesting a regular license for two-way ITFS facilities utilizing equipment configurations determined by these proposed system trials.

Should the Commission require further information or materials regarding the information submitted herein, such will be promptly furnished upon request.