

Request for Experimental Program License

Booz Allen Hamilton, requests an FCC-issued Experimental Program License in order to conduct technical development, testing, and demonstration of 4G LTE and 5G NR communications for national security and national defense purposes.

Booz Allen Hamilton is actively engaged in the development and deployment of 4G and 5G technology for defense, government, and enterprise applications.

The proposed operations will be conducted on an ongoing basis using various test configurations in our RF systems laboratory located in Laurel, MD. Operations will be itinerant and temporary in nature and will involve setting up a temporary 4G or 5G network to provide network communications in a laboratory environment. The goal of the research is to provide a validated, credible, and repeatable demonstration of how 4G and 5G technology can be used to provide advanced communications to a variety of enterprise, government, and military operations. These operations include both warfare and national security/emergency preparedness missions.

The proposed operations will consist of low power base stations operating on 3GPP 4G and 5G centimeter and millimeter wave bands.

Both experimental and production base station and user equipment from various vendors, as well as purpose-built experimental hardware will be used for testing. Booz Allen Hamilton, will be providing system integration and testing services and will be responsible for the over the air operation of the system.

The technical parameters of the proposed system include:

- 4G LTE and 5G NR Operation
- Various 4G and 5G Frequency Bands as specified
- Low power micro/picocell operation at minimum necessary power
- Indoor operation only

As with all experimental operations, Booz Allen Hamilton understands that operations are secondary to those of licensed users, and that demonstration operations must cease in the event that other users experience interference. Booz Allen Hamilton will retain the ability to shut the system off in the event that interference is reported. The single point of contact for this research program operation is:

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