

From: Henry Bachman

To: Anthony Serafini

Date: December 12, 2005

Subject:

---

Message:

File No. 0653-EX-ST-2005

BAE Systems is in receipt of the Commission's comment regarding the breadth of the frequency request specified in the above-referenced Application. As an initial matter, BAE Systems confirms that it is mindful of the need to ensure that its frequency requests are narrowly defined to meet its project requirements, while not unnecessarily intruding upon bands allocated for government or other use. Having said that, BAE Systems confirms that obtaining authority for the bands specified in the above-referenced Application (30-74.8 MHz; 75.2-88 MHz) is necessary in this context in light of the nature of the subject experiment. Specifically, the BAE Systems proposed combat ID system uses existing SINCGARS radios and soldier-mounted tags to transfer soldier identification and location information throughout the battlefield. The combat ID function is embedded within the SINCGARS waveform and the frequency-hopped transmission simultaneously passes the traditional SINCGARS voice/data along with the combat ID. Since the CID function must be transparent to the SINCGARS radio operator, it must operate anywhere in the allocated SINCGARS band. In some cases the traditional SINCGARS radio transmission uses a full-band hop set and a single radio transmission will require the entire specified spectrum.

☐ Please do not hesitate to contact BAE Systems with any further inquiries regarding this Application.