

From: Richard Ball

To: Leann Nguyen

Date: July 14, 2016

Subject: Request for Info - File # 0930-EX-ST-2016

Message:

Ms. Nguyen:

As you can see below, Sirius XM has issued its consent to the proposed STA Request under File No. 0930-EX-ST-2016 (Ref. 33044).

Best regards,

Jeff Rummel
Attorney for BAE Systems

Jeffrey E. Rummel
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From: Blitz, James [mailto:James.Blitz@siriusxm.com]
Sent: Tuesday, July 12, 2016 6:07 PM
To: Rummel, Jeffrey ; Karis Hastings
Subject: RE: BAE Systems Information and Electronic Systems Integration Inc. - Request for Consent re: Request for Experimental Special Temporary Authority - File No. 0930-EX-ST-2016

Jeffrey – SiriusXM has no objection to this proposal. Thank you.

Jim Blitz, V.P., Regulatory Counsel
1500 Eckington Place, NE
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202-380-1383

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From: Rummel, Jeffrey [mailto:Jeffrey.Rummel@arentfox.com]
Sent: Monday, July 11, 2016 10:59 AM
To: Karis Hastings ; Blitz, James
Subject: BAE Systems Information and Electronic Systems Integration Inc. - Request for Consent re: Request for Experimental Special Temporary Authority - File No. 0930-EX-ST-2016

Mr. Blitz and Ms. Hastings:

Good morning. On behalf of my client BAE Systems Information and Electronic Systems Integration Inc. ("BAE Systems"), this email seeks the consent of Sirius XM Radio Inc. ("Sirius XM") for the operations proposed in BAE Systems' Request for Experimental Special Temporary Authority ("STA Request") filed with the Federal Communications Commission under File No. 0930-EX-ST-2016.

For your reference, a scan of the pending STA Request is attached. In addition, attached is a scan of the inquiry issued by the FCC requiring BAE Systems to obtain the consent of Sirius XM.

As you can see, among the bands requested, BAE Systems seeks FCC consent to operate within 2305-2360 MHz (1W Output Power, 1W ERP, NON). BAE Systems assumes that consent is required with respect to the requested operations within 2320-2345 MHz – please advise if this is incorrect.

Based on the factors set forth in the STA Request and this email, the consent of Sirius XM is sought with respect to BAE Systems' proposal to operate within 2320-2345 MHz – as part of the larger 2305-2360 MHz band specified in the application. It has been my pleasure to work with Ms. Hastings on these consent matters before, and I look forward to working with you on a cooperative basis for this particular consent request.

As explained in the STA Request:

- The Experimental STA is requested for a six month period, from 7/31/2016 through 1/31/2017.
- The STA Request seeks authority to operate ground-based, temporary fixed operations within .5 km of the specified centerpoint coordinates of 42-48-22 N.Lat.; 071-25-33 W.Long. (Litchfield, NH)
- The experimental operations are sought to support the following operations:

"BAE Systems currently supplies pod base SIGINT Systems to US Government military customers. BAE Systems is currently adding new technology and capabilities to these podded SIGINT systems with an Internal Research and Development (IRAD) program. In support of this effort, the antenna array within the pod which supports Direction Finding and Geolocation needs to be fully characterized (or calibrated) and tested on an antenna range. The outdoor antenna range located in Litchfield, NH is the desired location for this antenna range activity. This array calibration and testing effort will directly enhance the performance, capabilities and accuracy of these podded airborne SIGINT systems. It is expected that this technology will be incorporated into active military weapons systems, which in turn will directly improve the success and utility of the military missions flown by these pods in the areas of deployment."

- At any given time, BAE Systems will not occupy the entirety of the bands listed in the Application. In fact, at any given time, within each of the band segments specified on the Application BAE Systems will only be transmitting within a 30 MHz sub-band for a very brief duration on only a select group of frequencies. Specifically, within each such 30 MHz sub-band, BAE Systems will operate as follows:

- Operation will occur on 40 frequencies (8 "groups" of 5 frequencies)
- Each of the 5 frequencies in each "group" will be separated by 5KHz frequency spacing.
- Operation will occur within the 30 MHz sub-band for only 25msec, then operation will move to the next 30 MHz sub-band.

- The designated point-of-contacts to terminate transmissions if interference occurs is:

Mr. Richard Ball & (603) 318-6913; Mr. Sean Hallinan - (603) 361-5959; BAE Systems Emergency Services Center & (603) 885-3842

Please feel free to contact me with any questions.

Best regards,

Jeff Rummel
Attorney for BAE Systems Information and Electronic Systems Integration Inc.

Jeffrey E. Rummel
Partner

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