

## **EXHIBIT 1 – REQUEST FOR EXPERIMENTAL STA**

GATR Technologies, Inc. (hereafter "GATR") hereby requests FCC experimental Special Temporary Authority ("STA") for a six month period for testing and development of a Next Generation Troposcatter system at its facility located in Huntsville, AL.

GATR is developing the Next Generation Troposcatter (NGT) system for the US Marine Corps.<sup>1</sup> The experimental STA is required to test the system locally for short periods of time as required. Each troposcatter link requires two NGT systems which can be configured for line of sight (LOS), beyond line of sight (BLOS) using the troposphere or optical gain diffraction (OGD). Using the NGT for BLOS and OGD usually requires two 500W amplifiers (see attached system diagram).

GATR has selected the C Band frequencies of 4430 MHz, 4530 MHz, 4800 MHz, and 4930 MHz and the X Band frequency ranges of 7125 MHz to 7387.5 MHz and 7487.5 to 7750 MHz for the testing proposed herein. GATR realizes there may be required frequency notch outs within the requested X Band frequency ranges. GATR will require **two** separate frequencies within the requested lower X Band frequency range of 7125 MHz to 7387.5 MHz, separated by at least 50 MHz and **two** separate frequencies within the requested upper X Band frequency range of 7487.5 to 7750 MHz, separated by at least 50 MHz. If the Commission is unable to authorize the selected frequency ranges (*excluding the identified restricted notch outs*), GATR requests authorization of two distinct frequencies within the lower and upper X Band ranges.

GATR acknowledges that all testing conducted under this experimental STA will be on a non-interference basis. Further, GATR will coordinate frequency usage pursuant to any directives issued by the Commission on the experimental authorization.

Because the equipment is technically incapable of providing station identification, GATR respectfully requests a waiver of the station identification provisions of Section 5.115 of the Commission's rules, 47 C.F.R. § 5.115.

The stop buzzer contact for this STA request is Chi Nche at Cubic/GATR, tel: 256-382-1334 ext. 6161, mobile: (619) 807-4660, e-mail: Chi.Nche@cubic.com.

GATR submits that a grant of this request for STA is necessary and in the public interest because it will allow GATR to support testing and development of the NGT system to be used by the US Marine Corp. and support its order with the United States Marine Corp., thus advancing national security efforts.

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<sup>1</sup> Pursuant to Contract Number: M67854-19-R-2000