

February 15, 2010

Mr. James Burtles, Chief  
Experimental Licensing Branch  
Office of Engineering and Technology  
Federal Communications Commission  
445 12<sup>th</sup> Street SW  
Washington, DC 20554

Re: Application for Special Temporary Authority

Pursuant to Section 5.61<sup>1</sup> of the Rules and Regulations (“Regulations”) of the Federal Communications Commission (“Commission”), Skyport Global Communications, Inc. (“Skyport”), respectfully requests a Special Temporary Authorization (“STA”) to test some X-band antennas.

Skyport requests authorization to test the XTAR 55cm, model 205471-1, slot-array X-band antenna manufactured by EMS Technologies, Inc. (the “55cm Antenna”) (antenna specs have been attached to the underlying application). The test will be done by establishing a satellite link between the 55cm Antenna and a 4.5m hub located in Houston, Texas.

The requested STA period is for 180 days beginning March 15, 2010. this operation is justified by Section 5.3(g)<sup>2</sup> of the Regulations as testing of equipment in connection with production. Furthermore, the testing is advocated by the Department of the Navy as outlined in the attached letter to the Commission.

Locations are as follows:

Houston Hub Station

The Houston Hub station is Skyport’s teleport and headquarters. There are several antennas licensed in this location, including those with callsigns E050044, E010295, and E000361. However, the hub antenna to be used for the operation at issue is not covered in any of these callsigns. This will be a transportable temporary fixed 4.5m X-band antenna manufactured by L3. The address and coordinates for the Houston Hub Station are:

Skyport Global Communications  
11140 Aerospace Avenue, Houston, Texas 77034  
(29° 36' 35.5" N 95° 10' 29.7" W)

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<sup>1</sup> 47 C.F.R. §5.61

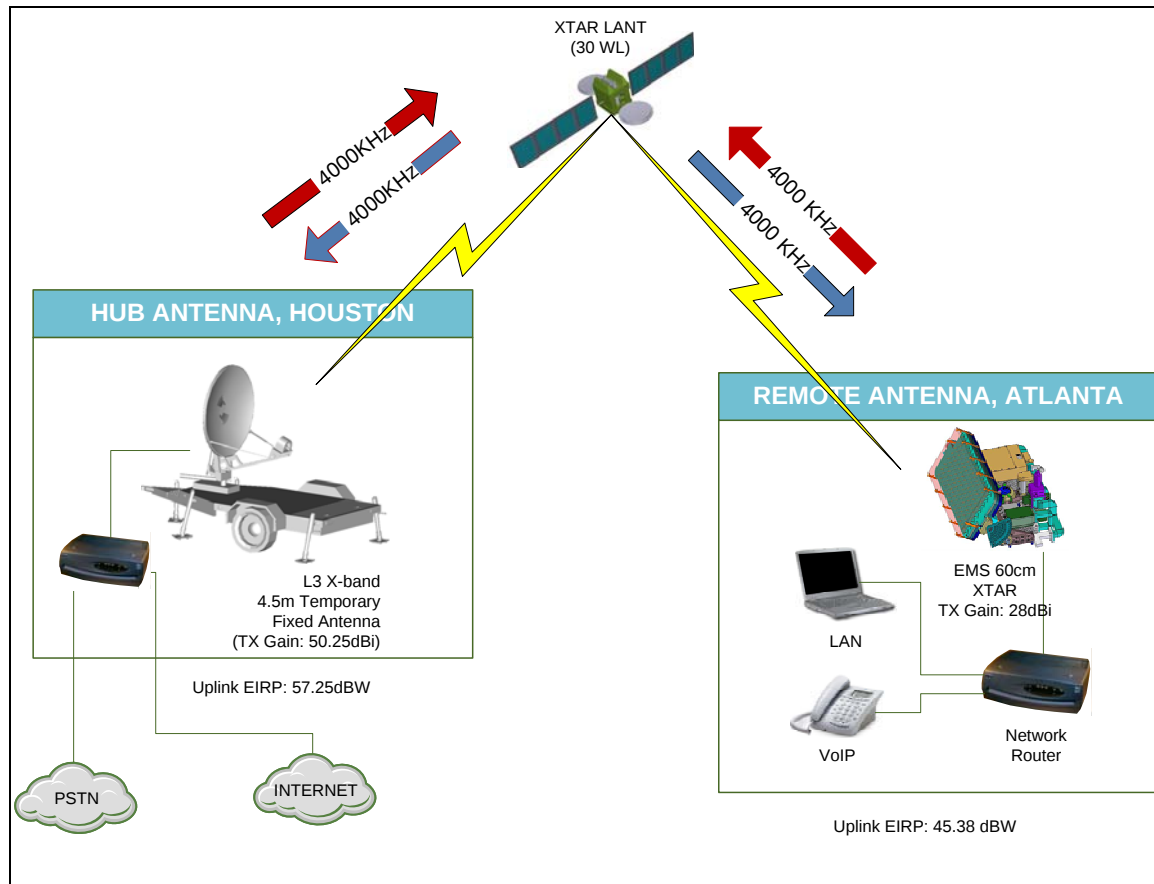
<sup>2</sup> 47 C.F.R. §5.3(g)

### Atlanta 55cm Antenna

The 55cm Antenna station is operated by EMS Technologies, Inc. The Antenna will be an XTAR 60cm slot-array X-band. The test location of the 55cm Antenna is:

EMS Technologies, Inc.  
660 Engineering Drive  
Norcross, Georgia, 30092  
(33° 57' 59" N, 84° 13' 44" W)

The figure below shows a representation of the network.



The testing will include phone connectivity to the public switched telephone network as well as Internet access. To accomplish this, the 55cm Antenna will communicate with the XTAR LANT X-band satellite located at 30 degrees W.L. and operated by XTAR, LLC [www.xtarllc.com/](http://www.xtarllc.com/). The planned center frequencies of operation are 8.327GHz (earth-to-space) and 7.60GHz (space-to-earth).

For the demonstration at issue, Federal Aviation Administration notification is not required pursuant to Section 17.14(a)<sup>3</sup> of the Regulations because the proposed antennas in all three locations are located with existing structures of existing structures of equal or greater height.

<sup>3</sup> 47 C.F.R. §7.14(a).

Point of Contact to Terminate Transmissions if Interference Occurs

Attn: Gil Huguley  
Sr. RF Engineer  
Skyport Global Communications  
11140 Aerospace Avenue, Houston, Texas 77034  
(832) 448-1043

Sincerely,

/s/ Raul Magallanes  
Raul Magallanes  
Counsel to Skyport