EXHIBIT 1. DESCRIPTION OF OPERATIONS.

Applicant holds a letter of intent authorization to operate a 2 GHz satellite known as TerreStar-1.¹ Additionally, Applicant holds a license to operate a gateway earth station, consisting of two fixed satellite service ("FSS") antennas that are located in North Las Vegas, Nevada, that will communicate with TerreStar-1 using feeder link frequencies.² The TerreStar-1 satellite is currently scheduled to be launched on June 24, 2009.

During a pre-launch test activity that was recently conducted at the North Las Vegas gateway facility, two High-Power Amplifiers (HPA) in the RF facility failed. The failed HPAs have been sent back to the manufacturer for analysis and possible repair. However, because of the imminent need to support the coming launch and Satellite In-Orbit-Testing (IOT) activity, TerreStar cannot wait for either the repaired units or the new units to arrive. Instead, two off-shelf spare HPAs are now being installed at the facility. These replacement HPAs need to be tested and their technical parameters characterized prior to satellite launch.

In this filing, Applicant seeks authority to operate the 9.3m antenna facility in North Las Vegas, in accordance with the parameters specified herein, in order to test the performance of the replacement HPAs and associated electronics prior to the launch of TerreStar-1.³ During these operations, the antennas will be pointed at 111.0° W.L., which will be the orbital location for TerreStar-1 after it is launched.

Because Applicant requires only three days in which to test its antennas, Special Temporary Authority ("STA") is most appropriate for this purpose. A test period of June 4, 2009 to June 6, 2009 has been selected to accommodate the schedules of multiple vendors that will participate in the testing.

The 12.75-13.25 GHz band for which Applicant is seeking STA is shared between the FSS and terrestrial services. Applicant's proposed operations provide appropriate protection to all relevant parties.

¹ See Order, DA 07-2028 (Int'l Bur., May 10, 2007); *TMI Communications and Company, Limited Partnership,* Order, 16 FCC Rcd 13808 (Int'l Bur. 2001); *TMI Communications and Company, Limited Partnership, and TerreStar Networks, Inc. Application for Review and Request for Stay,* Memorandum Opinion and Order, 19 FCC Rcd 12603 (2004).

² See File Nos. SES-LIC-20070530-00732 and SES-AMD-20071130-01642.

³ The parameters proposed herein are similar to those used to test the gateway earth station last year pursuant to an experimental STA, *See* FCC File No. 0407-EX-ST-2008. The test last year was limited to the 12.75-13.00 GHz portion of 12.75-13.25 GHz band, but has been expanded here to the full 12.75-13.25 GHz band.

First, in its application for a gateway earth station license, which is cited above, Applicant provided copies of coordination reports from Comsearch evidencing coordination with the operators of terrestrial stations in the band.

Second, for purposes of the tests proposed in this STA request, Applicant will in some cases operate with power levels exceeding the power levels that already had been coordinated in connection with Applicant's gateway earth station application. In addition, Applicant will access, on a limited and short-duration basis, the 13.0-13.25 GHz band which is adjacent to the 12.75-13.0 GHz band already licensed. Accordingly, Applicant has coordinated the higher-power and adjacent band test operations with the operators of terrestrial stations in the band. Copies of the Comsearch reports evidencing this coordination are included with this STA request.

The characteristics of the test signals and the frequencies they will access are detailed in Tables 1 and 2 herein attached with this STA request. The higher-power 80 dBW test signal is expected to be short in duration (estimated 1 minute or less).

Finally, TerreStar has coordinated with SkyTerra (Canada) Inc. ("SkyTerra"), which transmits in the 13.0 to 13.25 GHz band from its assigned 106.5° W.L. orbital position, the parameters to be used in the tests proposed in this STA request. Applicant and SkyTerra have agreed in principle that the technical parameters specified herein should not cause unacceptable interference into the adjacent 13.0 to 13.25 GHz band licensed to SkyTerra. As an added precaution, TerreStar has agreed to notify SkyTerra when it is ready to transmit in the 12.75 to 13.25 GHz band so SkyTerra can monitor the performance of its traffic in the unlikely event unacceptable interference occurs. SkyTerra is the only satellite operator using the 12.75 to 13.25 GHz band covered by this filing and operating a satellite located in the vicinity of 111.0° W.L.

Table 1. North Las Vegas HPA Retest Signal Characteristics

	Bandwidth Used	Ku-band Transmit EIRP from NLV (in dBW)	Ku-band Frequency (in MHz)
Test Signal 1	CW	80	(see Table 2)
Test Signal 2	10 MHz swept CW	62	12750-13250
Test Signal 3	5 MHz	62	12750-13000

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Element No.			Element		
	Frequency		No.	Frequency	
1	12764.9	MHz	1	13008.609	MHz
2	12771.9	MHz	2	13015.609	MHz
3	12778.9	MHz	3	13022.609	MHz
4	12785.9	MHz	4	13029.609	MHz
5	12792.9	MHz	5	13036.609	MHz
6	12799.9	MHz	6	13043.609	MHz
7	12806.9	MHz	7	13050.609	MHz
8	12813.9	MHz	8	13057.609	MHz
9	12820.9	MHz	9	13064.609	MHz
10	12827.9	MHz	10	13071.609	MHz
11	12834.9	MHz	11	13078.609	MHz
12	12841.9	MHz	12	13085.609	MHz
13	12848.9	MHz	13	13092.609	MHz
14	12855.9	MHz	14	13099.609	MHz
15	12862.9	MHz	15	13106.609	MHz
16	12869.9	MHz	16	13113.609	MHz
17	12876.9	MHz	17	13120.609	MHz
18	12883.9	MHz	18	13127.609	MHz
19	12890.9	MHz	19	13134.609	MHz
20	12897.9	MHz	20	13141.609	MHz
21	12904.9	MHz	21	13148.609	MHz
22	12911.9	MHz	22	13155.609	MHz
23	12918.9	MHz	23	13162.609	MHz
24	12925.9	MHz	24	13169.609	MHz
25	12932.9	MHz	25	13176.609	MHz
26	12939.9	MHz	26	13183.609	MHz
27	12946.9	MHz	27	13190.609	MHz
28	12953.9	MHz	28	13197.609	MHz
29	12960.9	MHz	29	13204.609	MHz
30	12967.9	MHz	30	13211.609	MHz
31	12974.9	MHz	31	13218.609	MHz
32	12981.9	MHz	32	13225.609	MHz

Table 2. Ku-band Frequencies for North Las Vegas HPA Retest