

**Exhibit E**  
**Description of Proposed Modifications**

LightSquared Subsidiary LLC (“LightSquared”) currently is licensed to operate a satellite carrier monitoring system (“SCMS”) under Call Sign E100051. *See* IBFS File No. SES-MFS-20150605-00323, Call Sign E100051 (the “SCMS License”). LightSquared’s SCMS currently consists of: (i) a hub earth station located in Ottawa, Ontario; (ii) six technically similar SCMS remote earth stations located in the United States and Canada operating pursuant to authority under the SCMS License; and (iii) one technically similar SCMS remote earth station located in the United States and authorized under a separate Commission license.

By this application, LightSquared requests that the Commission modify the SCMS License by: (i) adding a new remote earth station, to be located at Carlsbad, California, under Site ID SCMS 9 (the “Carlsbad Earth Station”); and (ii) increasing the maximum EIRP density specified for the remote earth station located at Cedar Hill, Texas, under Site ID SCMS 8 (the “Cedar Hill Earth Station”). As explained below, these modifications would serve the public interest, convenience, and necessity.

**1. New Remote Earth Station at Carlsbad, California**

LightSquared requests that the Commission add the Carlsbad Earth Station to the SCMS License. As reflected in Schedule B being submitted with this application, the Carlsbad Earth Station would be technically similar to the remote earth stations currently operating pursuant to the SCMS License. Moreover, the Carlsbad Earth Station would be used for the same purposes as those remote earth stations. In particular, the Carlsbad Earth Station would be used to monitor: (i) the signal levels of LightSquared’s various in-orbit spacecraft, including SkyTerra 1, MSAT-1, and MSAT-2; and (ii) the performance of the link from the Carlsbad Earth Station to the hub station. The Carlsbad Earth Station would not provide any end-user functionality, and would not require any coordination with terrestrial operators. Additional information regarding the location and placement of the Carlsbad Earth Station is included in the diagram accompanying this narrative.

**2. Modification of Cedar Hill Earth Station**

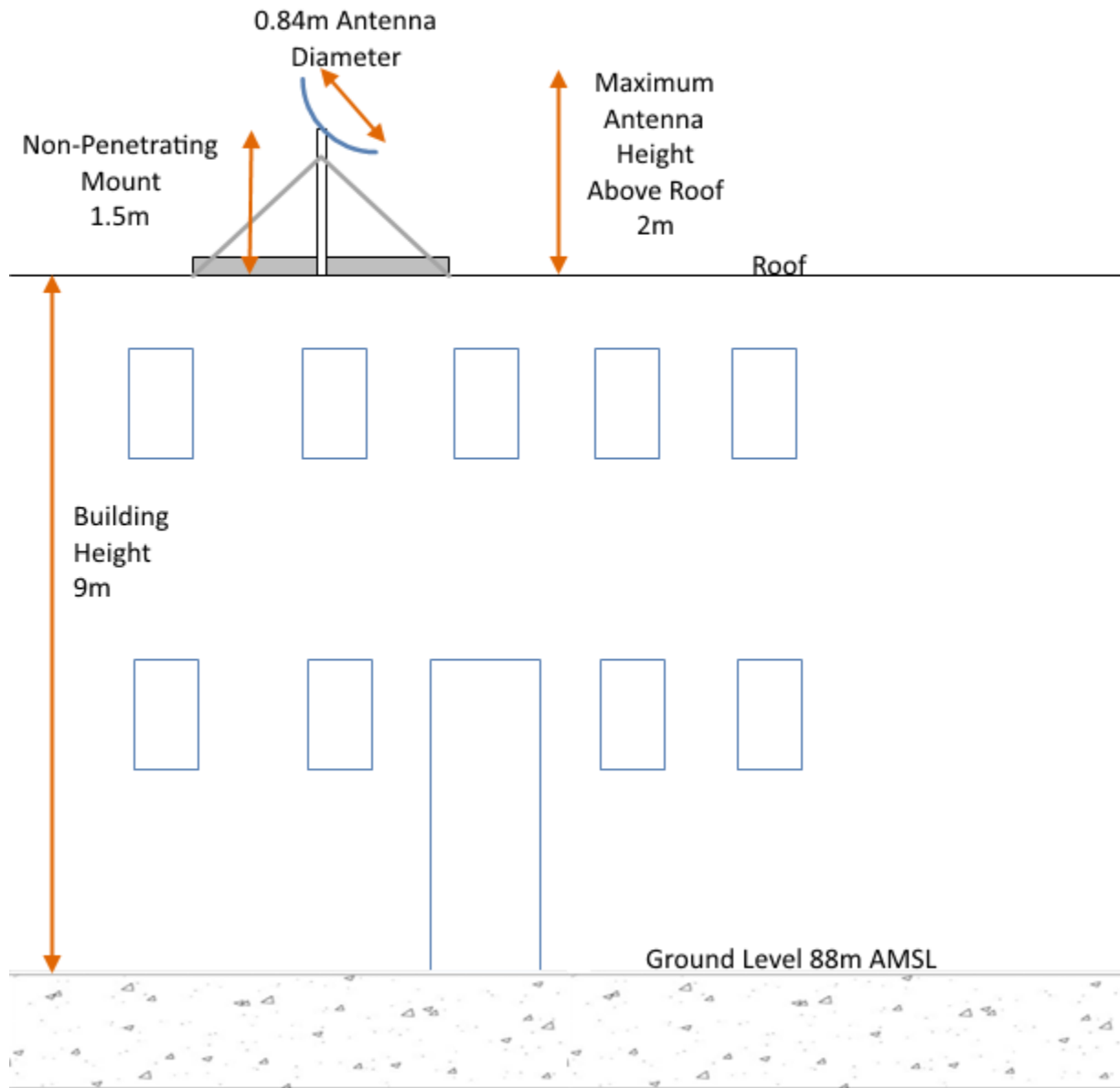
LightSquared seeks modification of the SCMS License to increase the maximum EIRP density value to 16.5 dBW/4 kHz for the Cedar Hill Earth Station, Site ID SCMS 8. This EIRP density value is consistent with that specified for other remote stations operating under the SCMS License. No other changes with respect to the Cedar Hill Earth Station are requested; other information provided in Schedule B accompanying this application merely replicates the technical information previously specified for the Cedar Hill Earth Station and approved by the Commission. *See* IBFS File No. SES-MOD-20131125-01162 (granted Mar. 21, 2014).

\* \* \* \* \*

Grant of the proposed license modifications would serve the public interest because it would enable LightSquared to continue to operate its SCMS in a modified manner and to advance the underlying objectives of its SCMS, which the Commission previously found to be

in the public interest. Accordingly, LightSquared respectfully requests that the Commission grant the requested modifications.

## Carlsbad Antenna (SCMS 9) Installation Diagram



## Technical Certification

I, Jim Thorpe, Senior Engineer, LightSquared Subsidiary LLC, certify under penalty of perjury that:

1. I am the technically qualified person with overall responsibility for preparation of the technical information contained in this application.
2. I am familiar with the requirements of Part 25 of the Commission's rules, and the information contained in the application is true and correct to the best of my knowledge and belief.

/s/ Jim Thorpe  
Jim Thorpe

Dated: January 5, 2016