



WASHINGTON, DC

DAVID S. KEIR
202.416.6742
DKEIR@LERMANCENTER.COM

January 22, 2014

FILED VIA IBFS

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
445 Twelfth Street, SW
Washington, DC 20554

**Re: HNS License Sub, LLC Gateway Earth Station License, FCC
File No. SES-MFS-20120426-00395 (Call Sign E110149)**

Dear Ms. Dortch:

Transmitted herewith on behalf of HNS License Sub, LLC (“Hughes”) is antenna performance data demonstrating compliance with Section 25.209 of the Commission’s Rules by the gateway earth station antennas authorized under the above referenced FCC license (Call Sign E110149).

Should there be any questions regarding this submission, please contact the undersigned counsel.

Respectfully submitted,

s/ David S. Keir

David S. Keir

Counsel to HNS License Sub, LLC

cc: Paul Blais, FCC

Field Test Radiation Pattern Measurements for Antennas Under Call Sign E110149

This report provides the Commission with the results of antenna performance radiation measurements in accordance with Section 25.209 of the Commission's Rules. The antenna performance verification measurements are provided pursuant Condition 2938 of the authorization of E110149. (See SES-LIC-20111021-01243, granted January 10, 2012). Two antenna models are used under this authorization. The first one is a GDSatCom 8.1 meter antenna model 1010K. The second is a Vertex 6.3 antenna model 1210K. The results of these performance verification measurements demonstrate both antenna models comply fully with the requirements of Section 25.209(a) and (b) of the Commission's Rules.

In preparing the attached antenna performance verification measurements, Hughes selected frequencies based upon the availability of Ka-band spectrum that was designated for field testing. The transmit frequencies used for the attached antenna measurements are 29.99025 GHz (or 30.0 GHz) and 29.542 GHz.

Figure 1

Antenna 1 - 8.1 m GDSATCOM 1010K Azimuth Transmit Pattern at 29.542 GHz

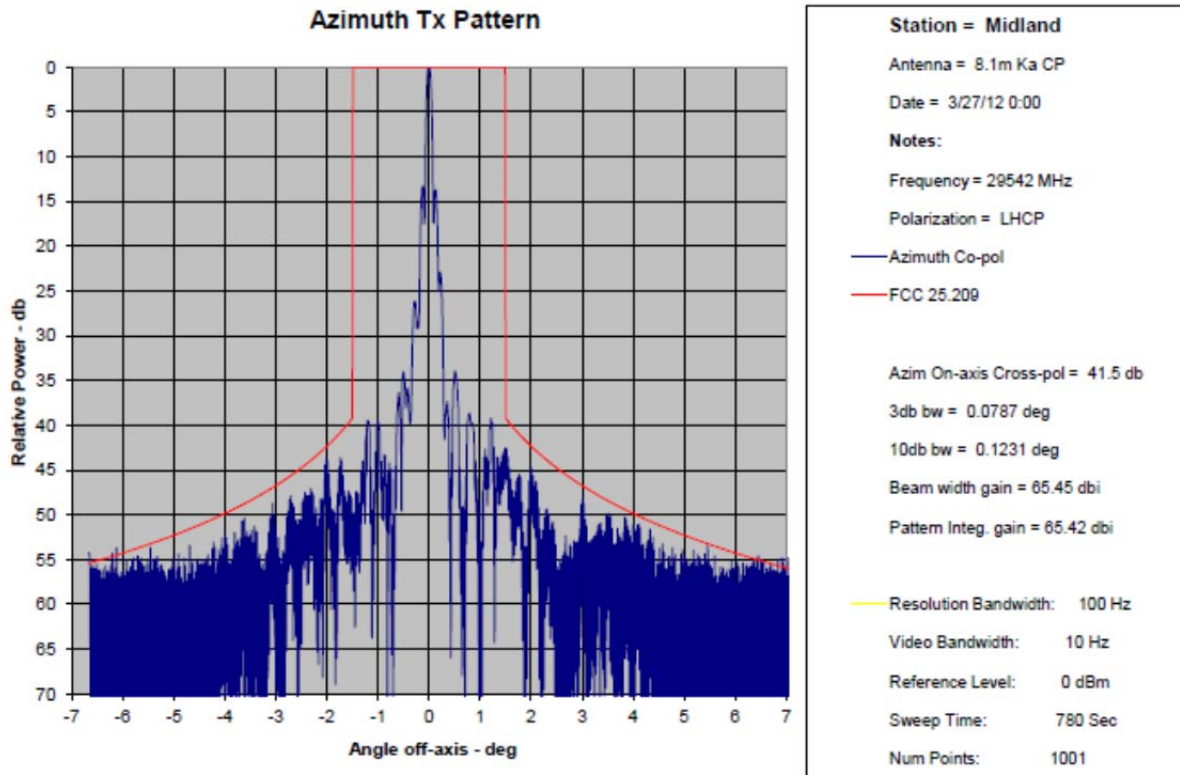


Figure 2

Antenna 1 - 8.1 m GDSATCOM 1010K Elevation Transmit Pattern at 29.542 GHz

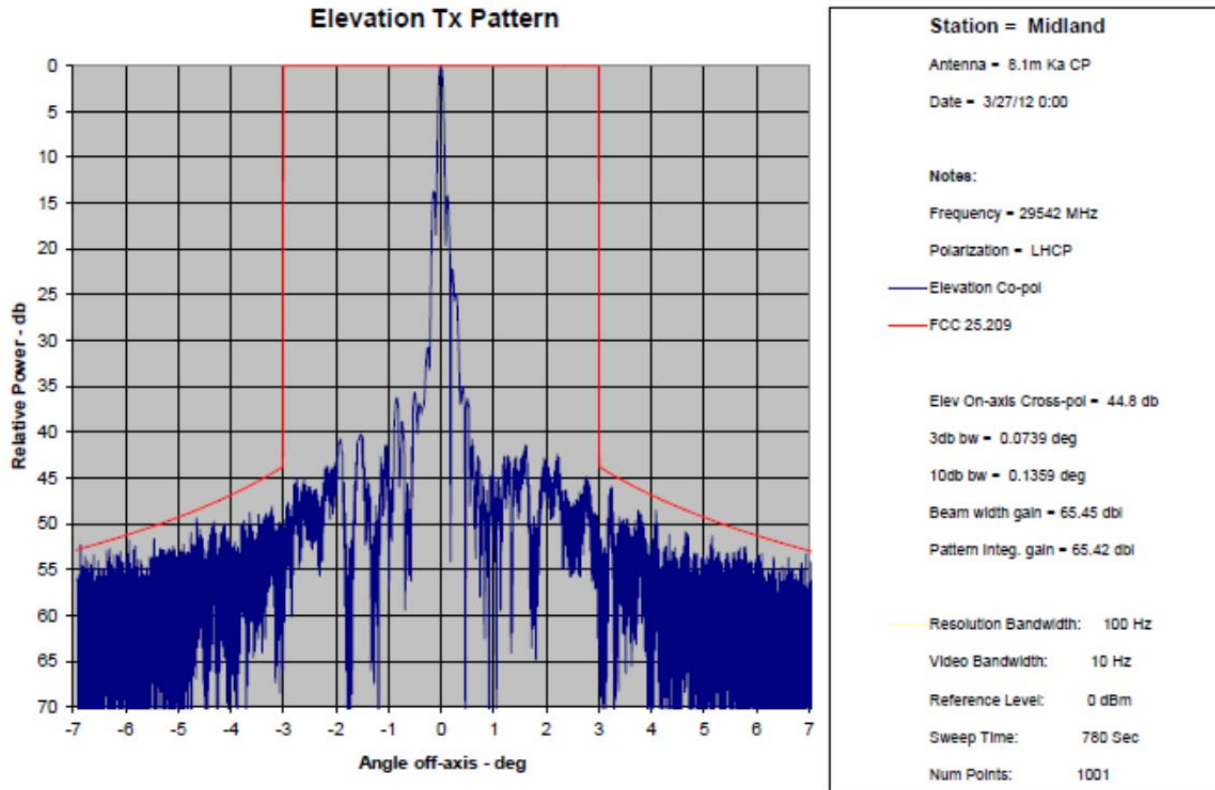


Figure 3

Antenna 2 - 6.3 m Vertex 1210K Azimuth Transmit Pattern at 29.99025 GHz

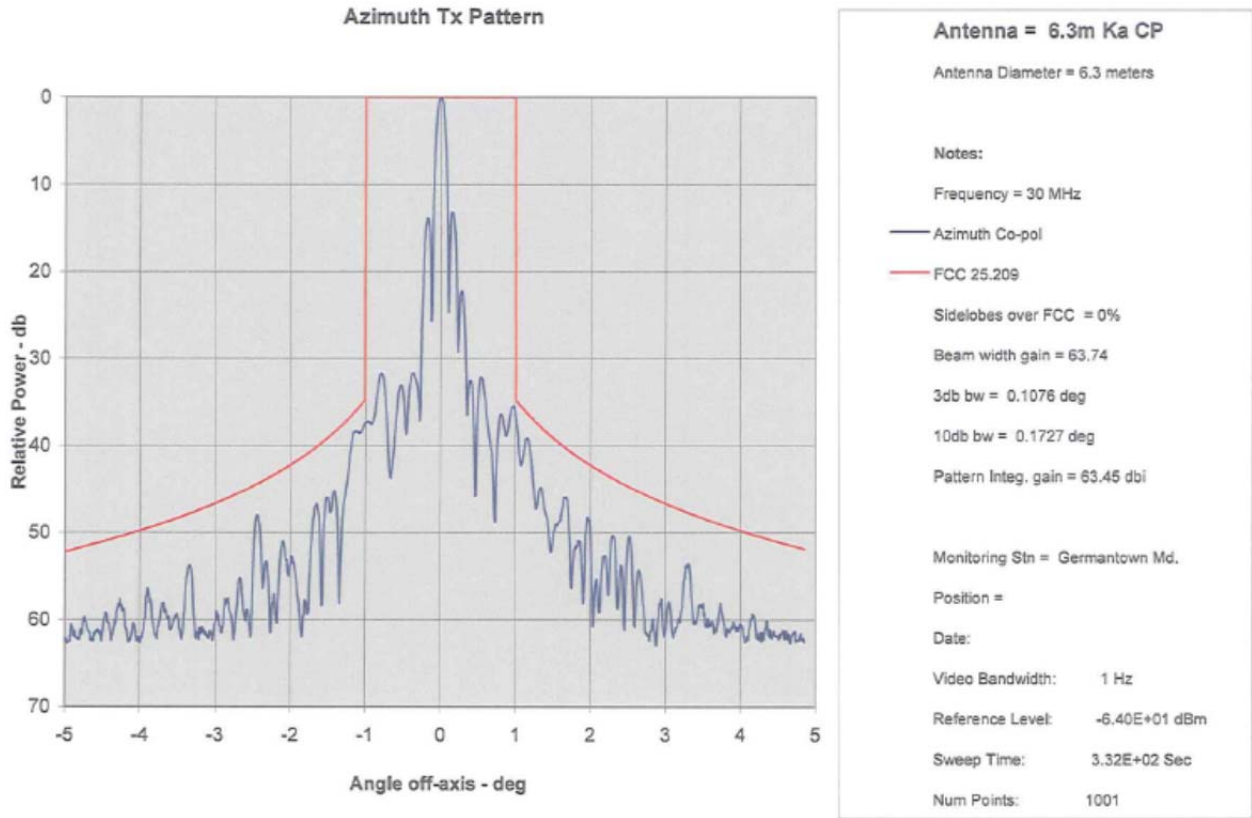


Figure 4

Antenna 2 - 6.3 m Vertex 1210K Elevation Transmit Pattern at 29.99025 GHz

