

May 19, 2016

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

Re: File Nos. SES-LIC-20150604-00341, SES-AMD-20150812-00519

Dear Ms. Dortch:

Pursuant to Special Provision No. 253 of the above-referenced license grants and in accordance with Section 25.138(d) of the Commission's rules, HNS License Sub, LLC submits the attached results of antenna performance verification measurements for the licensed 13.2 m. earth station antennas.

Please direct any questions regarding this matter to the undersigned.

Respectfully Submitted,

/s/ Alexander Gerdenitsch Alexander Gerdenitsch Senior Principal Engineer

Attachment

## Field Test Radiation Pattern Measurements for 13.2m Antenna

Azimuth 68.05 7.00 S Hz dB Sec dB/Div Axis Recorded: Direction of Travel: Antenna Dia. (m): Gain: 3/10dB BW (dBi): Gain: Integration (dBi): 1.0 350.0 10.0 35.0 Resolution BW: nput Attenuation: Frequency Span. 3.00 -25Log(0) dBi 68.16 dBi 0.00 London 13.2 212.99 LHCP 1.00 П Sidelobe Envelope = 29 Avg. Gain at 28,500 MHz Degrees **Tansmit** % sidelobes exceeding envelope: Azimuth Elevation Angle: Azimuth Angle: Polariz. Angle: 0.057 10dB BW: 0.093 AMC 15 28,500 LHCP **David Farrow** SED/Hughes London, ON Ron Hoge 30-Jan-16 Frequency (MHz): -7.00 0 -10 9--70 Polarization: 50 6 9 Spacecraft: 3dB BW: Customer: (db) ebutildmA Darte:

**Figure 1**Azimuth Transmit Pattern at 28.5 GHz

**Figure 2**Elevation Transmit Pattern at 28.5 GHz

