



May 19, 2016

By Electronic Filing

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

Re: File Nos. SES-LIC-20150604-00342, SES-LIC-20150604-00343, SES-LIC-20150604-00344, SES-LIC-20150604-00345, SES-LIC-20150604-00346, SES-LIC-20150604-00347, SES-LIC-20150604-00348

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 5.6 m. earth station antennas.

Please direct any questions regarding this matter to the undersigned.

Respectfully Submitted,

/s/ Alexander Gerdenitsch

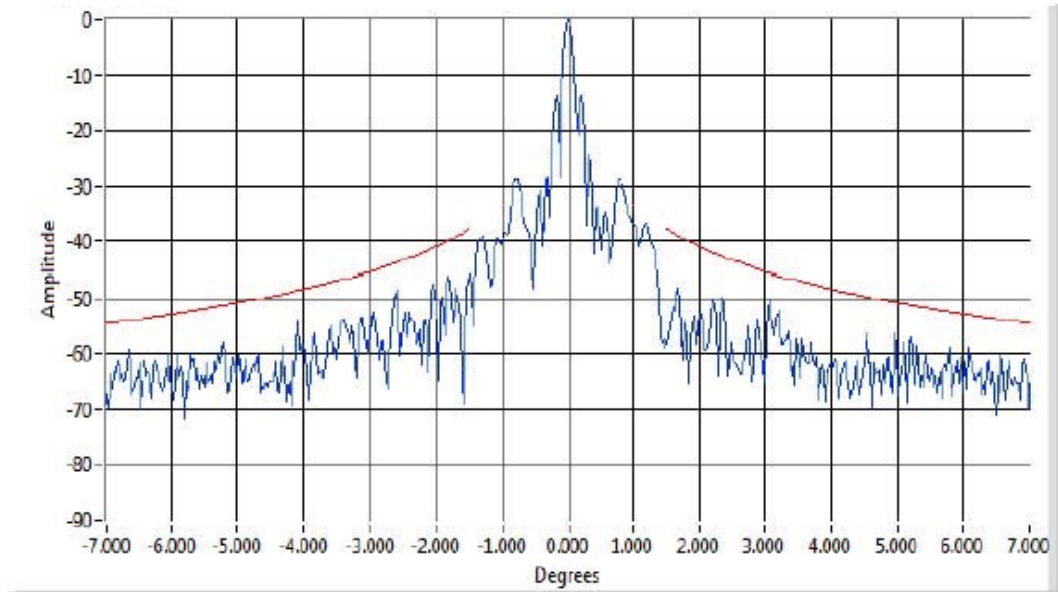
Alexander Gerdenitsch
Senior Principal Engineer

Attachment

Field Test Radiation Pattern Measurements for 5.6m Antenna

Figure 1

Azimuth Transmit Pattern at 29.687 GHz



Antenna Details

Site Name: NLV
Site Location: North Las Vegas, NV, USA
Site Latitude: 36.17N
Site Longitude: 115.3W
Site Altitude: 2001ft

Antenna Name: J2 5.6m Ka
Antenna Size: 5.6m
TX Feed Loss: 0.97dB
RX Feed Loss: 1.18 dB
Combiner S/N:

Pattern Details

Pattern Type: TX / Co
Axis: AZ
Off Axis Degrees: 7.00
On Axis AZ: 163.35
On Axis EL: 46.35

Test Frequency: 29687.000MHz
Polarity: LHCP
Weather Conditions: Clear <10%
Specification: FCC 25.209

Spectrum Analyzer Settings

Res. Bandwidth: 300 Hz
Reference Level: -52.00 dBm
Center Frequency: MHz
Span: Hz

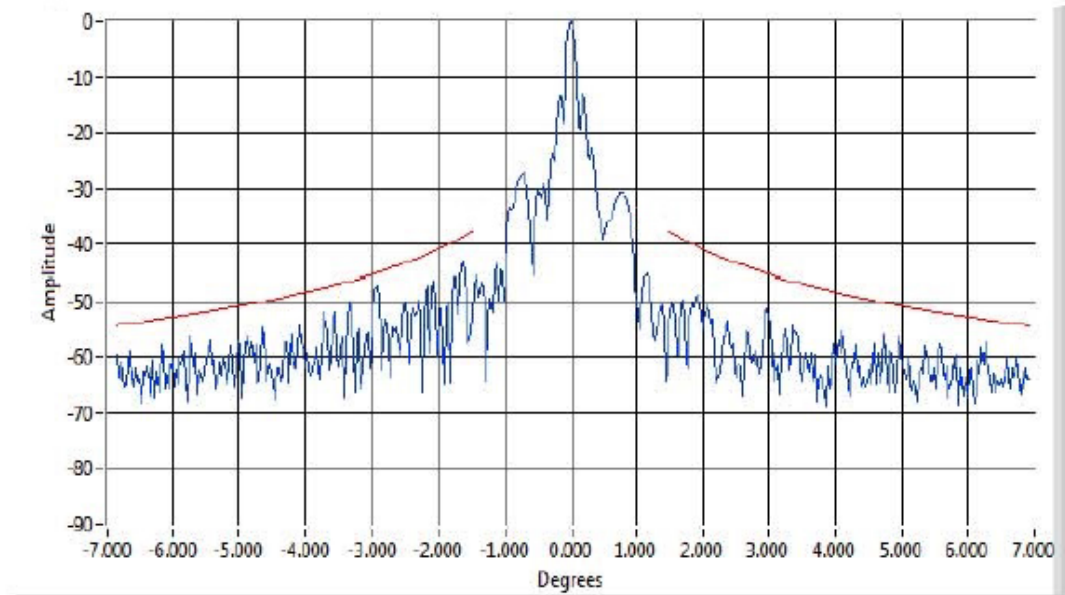
Video Bandwidth: 30 Hz
Attenuation: dB
Sweep Time: 314.000 s

Test Results

Directivity: 63.33 dBi
3dB Beamwidth: 0.096 Deg.
10dB Beamwidth: 0.186 Deg.

Figure 2

Elevation Transmit Pattern at 29.687 GHz



Antenna Details

Site Name: NLV
Site Location: North Las Vegas, NV, USA
Site Latitude: 36.17N
Site Longitude: 115.3W
Site Altitude: 2001ft

Antenna Name: J2 5.6m Ka
Antenna Size: 5.6m
TX Feed Loss: 0.97dB
RX Feed Loss: 1.18 dB
Combiner S/N:

Pattern Details

Pattern Type: TX / Co
Axis: EL
Off Axis Degrees: 7.00
On Axis AZ: 163.35
On Axis EL: 46.62

Test Frequency: 29687.000MHz
Polarity: LHCP
Weather Conditions: Clear <10%
Specification: FCC 25.209

Spectrum Analyzer Settings

Res. Bandwidth: 300 Hz
Reference Level: -52.00 dBm
Center Frequency: MHz
Span: Hz

Video Bandwidth: 30 Hz
Attenuation: dB
Sweep Time: 334.000 s

Test Results

Directivity: 63.31 dBi
3dB Beamwidth: 0.109 Deg.
10dB Beamwidth: 0.183 Deg.