HUGHES

April 11th, 2017

Paul Blais
Chief, System Analysis Branch
Satellite Division
International Bureau
Federal Communications Commission
445 12th Street, W.W.
Washington, D.C. 20554

Subject: Certification of Hughes Network Systems, LLC (HNS) for the ECHOSTAR XVII satellite

Dear Mr. Blais:

Pursuant to §25.227(b)(2)(ii) and 25.220(d) of the FCC rules, Hughes Network Systems, LLC provides this certification letter regarding the application by which Thales Avionics, Inc. (Thales) is seeking authorization from the FCC to operate technically identical Ka-band transmit/receive terminals on domestic and international flights, consistent with ITU RR 5.526 and the Commission's current rules for the Ka band. Thales Avionics is seeking authorization for these aeronautical Ka-band earth stations to utilize the ECHOSTAR XVII satellite located at the 107° WL nominal orbital position, in conformance with the off-axis EIRP density and power flux density (PFD) levels specified in Section 25.138(a) of the FCC rules.

Having reviewed the contents of the Thales' application, as well as all material presented by them on how they will utilize the ECHOSTAR XVII satellite included in their letter dated April 11, 2017, HNS

- Certifies that coordination for the ITU filing associated with the operation of the ECHOSTAR XVII satellite has been concluded with all relevant geostationary satellite networks located in an orbital arc at +/- 6 degrees from the 107° WL nominal orbital position.
- Certifies that power density levels as specified by Thales are consistent with the existing agreements signed by HNS for the inter-satellite coordination of the ITU filings associated with

the operation of the ECHOSTAR XVII satellite with respect of all relevant geostationary satellite networks located in an orbital arc at +/- 6 degrees from the 107° WL nominal orbital position.

- Will ensure that, if the operations proposed by Thales are authorized by the FCC, all future inter-satellite coordination agreements associated with the operation of the ECHOSTAR XVII satellite will include the power density levels specified by Thales.

With my warmest regards,

Fernando Carrillo
Senior Principal Engineer
Regulatory Affairs