

Federal Communications Commission  
International Bureau  
445 12th Street, S.W.  
Washington, D.C. 20554

Our date  
2019.24.04

Our reference  
2019/01

Your date

Your reference

Our contact

Kjersti Thomassen Hamborgstrøm

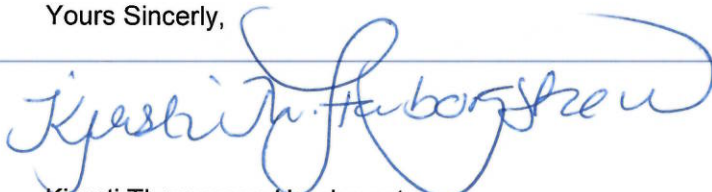
## Engineering Certification of Telenor Satellite for the Thor-7 Satellite

This letter confirms that Telenor Satellite ("Telenor") is aware that Thales Avionics, Inc. ("Thales"), licensed by the Federal Communications Commission ("FCC"), is seeking authorization from the FCC to operate technically identical Ka-band transmit/receive remote terminals, consistent with ITU RR 5.526 and the Commission's current framework for the Ka band. Thales seeks authority for Thales Avionics, Inc.'s remote terminals to communicate with the Thor-7 satellite at 0.65° W.L. according to the Commission's precedent for Ka-band aeronautical applications.

Based upon the representations made to Telenor by Thales concerning how it will operate on Thor-7:

- Telenor certifies that the power density levels are consistent with off-axis EIRP density levels specified in the FCC's rules in 47 CFR, Part 25, §25.138(a)(1). Telenor is aware that Thales holds an FCC waiver of §25.138(a)(2) rules due to the antenna's non-compliance in the NGSO plane when operating at low skew angles.
- Telenor certifies that the power flux density (PFD) levels are consistent with PFD levels specified in §25.138(a)(6)(a).
- Telenor certifies that the power density levels specified comply with any existing coordination agreements to which Telenor is a party, with adjacent satellite operators within +/-6° of orbital separation from Thor-7.
- Telenor certifies that Thales's operations are consistent with the following §25.227 rules that apply to Ka-band operation:
  - (a)(1), (a)(2), (a)(4) through (a)(16); (b)(1), (b)(2), (b)(4) through (b)(8)
- If the FCC authorizes the operations proposed by Thales, Telenor will, as long as Thales is using Thor-7 capacity, incorporate the power density levels specified in this letter in future satellite network coordination agreements with other operators of satellites adjacent to Thor-7.

Yours Sincerely,



Kjersti Thomassen Hamborgstrøm  
Director Spectrum Management  
Telenor Satellite