



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Name: Thales Avionics, Inc.

Call Sign: E170068

Authorization Type: Modification of License

File Number: SES-MOD-20200818-00888

Non Common Carrier

Grant date: 10/01/2020

Expiration Date: 07/07/2032

Nature of Service: Earth Station Aboard Aircraft

Nature of Service: Fixed Satellite Service

Class of Station: Other

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	AES1	.365m (250 UNITS) AOR/PARTS OF N. EUROPE			0	NA
Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.						
2)	AES2	0.433m (250 UNITS) CONUS AND AOR				NA
Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.						

Subject to the provisions of the Communications Act of 1934, The Communications Satellite Act of 1962, subsequent acts and treaties, and all present and future regulations made by this Commission, and further subject to the conditions and requirements set forth in this license, the grantee is authorized to construct, use and operate the radio facilities described below for radio communications for the term beginning August 17, 2020 (3 AM Eastern Standard Time) and ending July 7, 2032 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is October 1, 2021 (3 AM Eastern Standard Time) . Grantee must file with the Commission a certification upon completion of construction and commencement of operation.

B) Particulars of Operations

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

For the text of these provisions, refer to Section H.

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1)	29500.0000-30000.0000	L, R	1M00G7D	Tx	42.40	18.40	AES1		Digital Data Services
2)	29500.0000-30000.0000	L, R	2M05G7D	Tx	45.50	18.40	AES1		Digital Data Services
3)	29500.0000-30000.0000	L, R	4M10G7D	Tx	45.50	15.40	AES1		Digital Data Services
4)	29300.0000-30000.0000	L, R	2M00G7D	Tx	45.50	18.40	AES1		Digital Data Services



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5)	29300.0000-30000.0000	L, R	4M10G7D	Tx	45.50	15.40	AES1		Digital Data Services
6)	29300.0000-30000.0000	L, R	6M10G7D	Tx	45.50	13.60	AES1		Digital Data Services
7)	28438.0000-28563.0000	L, R	2M05G7D	Tx	45.40	18.30	AES1		Digital Data Services
8)	28438.0000-28563.0000	L, R	4M10G7D	Tx	45.40	15.30	AES1		Digital Data Services
9)	19700.0000-20200.0000	L, R	11M4G7D	Rx			AES1		Digital Data Services
10)	19700.0000-20200.0000	L, R	22M8G7D	Rx			AES1		Digital Data Services
11)	19700.0000-20200.0000	L, R	37M0G7D	Rx			AES1		Digital Data Services
12)	19700.0000-20200.0000	L, R	47M0G7D	Rx		0.00	AES1		Digital Data Services
13)	18638.0000-18763.0000	L, R	37M0G7D	Rx			AES1		Digital Data Services
14)	18300.0000-19300.0000	L, R	47M0G7D	Rx			AES1		Digital Data Services
15)	29500.0000-30000.0000	L, R	1M00G7D	Tx	43.10	19.00	AES2		Digital Data Services
16)	29500.0000-30000.0000	L, R	6M10G7D	Tx	47.40	15.64	AES2		Digital Data Services
17)	29300.0000-30000.0000	L, R	2M05G7D	Tx	46.10	19.00	AES2		Digital Data Services
18)	29300.0000-30000.0000	L, R	4M10G7D	Tx	47.40	15.64	AES2		Digital Data Services
19)	28438.0000-28563.0000	L, R	2M05G7D	Tx	46.10	19.00	AES2		Digital Data Services
20)	28438.0000-28563.0000	L, R	4M10G7D	Tx	46.10	19.00	AES2		Digital Data Services
21)	19700.0000-20200.0000	L, R	11M4G7D	Rx			AES2		Digital Data Services
22)	19700.0000-20200.0000	L, R	22M8G7D	Rx			AES2		Digital Data Services
23)	19700.0000-20200.0000	L, R	47M0G7D	Rx			AES2		Digital Data Services
24)	18300.0000-19300.0000	L, R	47M0G7D	Rx			AES2		Digital Data Services



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C) Frequency Coordination Limits

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.)		Elevation (Degrees)		Azimuth (Degrees)		Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
		East Limit	West Limit	East Limit	West Limit	East Limit	West Limit		
1)	18600.0000-18800.0000	105.0W	105.0W	35.0	30.0	150.0	255.0		AES1
2)	28438.0000-28563.0000	85.0W	85.0W	15.0	28.0	130.0	220.0	-18	AES1
3)	28438.0000-28563.0000	105.0W	105.0W	35.0	30.0	150.0	255.0	-25.4	AES1
4)	29500.0000-30000.0000	105.0W	105.0W	35.0	30.0	150.0	255.0	-25.4	AES1
5)	29500.0000-30000.0000	85.0W	85.0W	15.0	28.0	130.0	220.0	-18	AES1
6)	18600.0000-18800.0000	85.0W	85.0W	15.0	28.0	130.0	220.0		AES1
7)	19700.0000-20200.0000	85.0W	85.0W	15.0	28.0	130.0	220.0		AES1
8)	19700.0000-20200.0000	105.0W	105.0W	35.0	30.0	150.0	255.0		AES1
9)	29300.0000-30000.0000	97.1W	97.1W	25.0	40.0	130.0	250.0	-23.4	AES1
10)	29300.0000-30000.0000	107.0W	107.0W	25.0	40.0	130.0	250.0	-23.4	AES1
11)	18300.0000-19300.0000	97.1W	97.1W	25.0	40.0	130.0	250.0		AES1
12)	18300.0000-19300.0000	107.0W	107.0W	25.0	40.0	130.0	250.0		AES1
13)	19700.0000-20200.0000	97.1W	97.1W	25.0	40.0	130.0	250.0		AES1
14)	19700.0000-20200.0000	107.0W	107.0W	25.0	40.0	130.0	250.0		AES1
15)	29500.0000-30000.0000	0.7W	0.7W	14.0	08.0	190.0	109.0	-8	AES1
16)	19700.0000-20200.0000	0.7W	0.7W	14.0	08.0	190.0	109.0		AES1
17)	18900.5000-19337.5000	0.7W	0.7W	14.0	08.0	190.0	109.0	-8	AES1
18)	29500.0000-30000.0000	105.0W	105.0W	25.0	40.0	150.0	255.0	-20.4	AES2
19)	29500.0000-30000.0000	85.0W	85.0W	15.0	28.0	130.0	250.0	-14.9	AES2
20)	29500.0000-30000.0000	0.7W	0.7W	30.0	15.0	230.0	115.0	-14.9	AES2
21)	29300.0000-30000.0000	107.1W	107.1W	25.0	40.0	130.0	250.0	-20.5	AES2
22)	19700.0000-20200.0000	107.1W	107.1W	25.0	40.0	130.0	250.0		AES2
23)	29300.0000-30000.0000	97.1W	97.1W	25.0	40.0	130.0	250.0	-20.5	AES2
24)	28438.0000-28563.0000	105.0W	105.0W	25.0	40.0	150.0	255.0	-20.4	AES2
25)	28438.0000-28563.0000	85.0W	85.0W	15.0	28.0	130.0	250.0	-14.9	AES2
26)	19700.0000-20200.0000	105.0W	105.0W	25.0	40.0	150.0	255.0		AES2
27)	19700.0000-20200.0000	97.1W	97.1W	25.0	40.0	130.0	250.0		AES2
28)	19700.0000-20200.0000	85.0W	85.0W	15.0	28.0	130.0	250.0		AES2
29)	19700.0000-20200.0000	0.7W	0.7W	30.0	15.0	230.0	115.0		AES2
30)	18600.0000-18800.0000	105.0W	105.0W	25.0	40.0	150.0	255.0		AES2
31)	18600.0000-18800.0000	85.0W	85.0W	15.0	28.0	130.0	250.0		AES2
32)	18300.0000-19300.0000	107.1W	107.1W	25.0	40.0	130.0	250.0		AES2
33)	18300.0000-19300.0000	97.1W	97.1W	25.0	40.0	130.0	250.0		AES2



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D) Points of Communications

The following stations located in the Satellite orbits consistent with Sections B and C of this Entry:

- 1) AES1 to Echostar XVII (S2753) @ 107.1 degrees W.L. (U.S.-licensed)
- 2) AES1 to JUPITER 2 (S2834) @ 97.1 degrees W.L. (U.S.-licensed))
- 3) AES1 to AMC-15 (S2180) @ 105.05 degrees W.L.(U.S.-licensed)
- 4) AES1 to AMC 16 (S2181) @ 85 degrees W.L. (U.S.-licensed)
- 5) AES1 to Thor-7 @ 0.65 degrees W.L. (Norway Licensed)
- 6) AES2 to AMC-15 (S2180) @ 105.05 degrees W.L.(U.S.-licensed)
- 7) AES2 to AMC 16 (S2181) @ 85 degrees W.L. (U.S.-licensed)
- 8) AES2 to Echostar XVII (S2753) @ 107.1 degrees W.L. (U.S.-licensed)
- 9) AES2 to JUPITER 2 (S2834) @ 97.1 degrees W.L. (U.S.-licensed))
- 10) AES2 to Thor-7 @ 0.65 degrees W.L. (Norway Licensed)

E) Antenna Facilities

Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
AES1	AES1	250	0.365	Thales	MCT-A	0	0 AGL/ 0 AMSL	
Max Gains(s): 35.7 dBi @ 19.9500 GHz 39.0 dBi @ 29.7500 GHz 19.7 dBi @ 20.2000 GHz 29.5 dBi @ 30.0000 GHz								
Maximum total input power at antenna flange (Watts) =					4.57			
Maximum aggregate output EIRP for all carriers (dBW) =					45.50			
AES2	AES2	250	0.433	THINKOM	KA2517			
Max Gains(s): 36.3 dBi @ 19.7000 GHz 34.8 dBi @ 29.7500 GHz 34.2 dBi @ 28.5000 GHz 36.0 dBi @ 19.3000 GHz 36.7 dBi @ 20.2000 GHz								
Maximum total input power at antenna flange (Watts) =					18.10			
Maximum aggregate output EIRP for all carriers (dBW) =					47.40			

F) Remote Control Point:

AES1	7415 Emerald Dunes Drive, Suite 2000 Orlando, Orange, FL 32822 407-812-2538	Call Sign: N/A
AES1	SES Network Operations Control (NOC), 8000 Gainsford Court Bristow, Prince William, VA 20136 703-330-3305	Call Sign: N/A



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F) Remote Control Point:

AES2 8000 GAINSFORD COURT **Call Sign:**

BRISTOW, PRINCE WILLIAM, VA 20136
703-330-3305

AES2 7415 EMERALD DUNES DRIVE, SUITE 2000 **Call Sign:**

ORLANDO, ORANGE, FL 32822
407-812-2538

G) Antenna Structure marking and lighting requirements:

None unless otherwise specified under Special and General Provisions

H) Special and General Provisions

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

4 --- Licensee must ensure that a current listing of the name, title, mailing address, email address, and telephone number of the responsible point of contact are on file at the FCC. Any changes must be filed electronically in the International Bureau Filing System (MyIBFS) using the "Pleadings and Comments" link on the MyIBFS homepage within 10 days of the change.

8 --- Licensee must notify the Commission when all earth stations operating under this authorization are no longer operational or when they have not been used to provide any service during any 6-month operation.

90062 --- Operation pursuant to this authorization outside the United States in the 14.0-14.5 GHz band must be in compliance with the provisions of Annex 1, Part C of Recommendation ITU-R M.1643, with respect to any radio astronomy station performing observations in the 14.47-14.5 GHz band.

90067 --- Operation in the territory or airspace of any country other than the United States must be in compliance with the applicable laws, regulations, and licensing procedures of that country, as well as with the conditions of this authorization.

90075 --- Licensee is afforded 30 days from the date of release of this grant and authorization to decline this authorization as conditioned. Failure to respond within this period will constitute formal acceptance of the authorization as conditioned.

90079 --- ESAAs in aircraft on the ground must not transmit at elevation angles less than three degrees. There is no minimum angle of antenna elevation for ESAAs while airborne.

90081 --- All operations shall be on a non-common carrier basis.

90095 --- The licensee shall comply with any pertinent limits established by the International Telecommunication Union to protect other services allocated internationally.



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H) Special and General Provisions

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

- 90104 --- For any new antenna authorized by this grant, the licensee must file with the Commission a certification including the following information: name of the licensee, file number of the application, call sign of the antenna, Site ID, date of the license and certification that the antenna model was put into operation.
- 90105 --- Authority is granted to operate this station by remote control provided that the operator is responsible for ensuring the operations are in accordance with the terms and conditions of the license and pursuant to Section 25.271 of the Commission's rules. 47 C.F.R 25.271.
- 90116 --- The licensee must maintain a U.S. point of contact available 24 hours per day, seven days per week, with the authority and ability to terminate operations authorized herein. The licensee shall have available, at all times, the technical personnel necessary to perform supervision of remote station operations.
- 90118 --- The licensee shall comply with any pertinent limits established by the International Telecommunication Union to protect other services allocated internationally.
- 90122 --- The earth stations in this blanket license are operated by remote control. The remote control point is a material term of the license and may not be changed without prior authorization under Section 25.117 of the Commission's rules. Public Notice "The International Bureau Provides Guidance Concerning the Relocation of Earth Station Remote Control Points," DA 06-978 (rel. May 4, 2006).
- 90123 --- Operations authorized pursuant to this license are operations by U.S.-registered aircraft anywhere within the coverage area/frequency bands identified in the application for the satellites listed as points of communication. Operations authorized pursuant to this license also include operations by non-U.S.-registered aircraft within U.S. territory, including territorial waters. Authorization for operations by U.S.-registered aircraft outside U.S. territory, pursuant to this license, does not constitute a grant of access to the market in the United States under the Commission's DISCO II policies.
- 90245 --- When the ESAA network is put into operation, the licensee must file with the Commission a certification including the following information: name of the licensee, file number of the application, call sign of the antenna, date of the license and certification that the network was put into operation and will remain operational during the license period unless the license is submitted for cancellation.
- 90246 --- ESAAs authorized herein must employ a tracking algorithm that is resistant to capturing and tracking adjacent satellite signals, and each station must be capable of inhibiting its own transmission in the event it detects unintended satellite tracking.
- 90247 --- ESAAs authorized herein must be monitored and controlled by a ground-based network control and monitoring center. Such stations must be able to receive "enable transmission" and "disable transmission" commands from the network control center and must cease transmission immediately after receiving a "parameter change" command until receiving an "enable transmission" command from the network control center. The network control center must monitor operation of each ESAA to determine if it is malfunctioning, and each ESAA must self-monitor and automatically cease transmission on detecting an operational fault that could cause harmful interference to a fixed-satellite service network.
- 90248 --- Stations authorized herein must not be used to provide air traffic control communications.



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H) Special and General Provisions

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

90253 --- When operating in airspace within line-of-sight of the territory of a foreign administration where Fixed Service networks have an allocation in the 28.35- 29.1 GHz or 29.5-30.0 GHz frequency bands, the ESAAs must not exceed the following EIRP limits:

+64 dBW in any 1 MHz band if Theta is less than or equal to 0°

+64 + 3*Theta dBW in any 1 MHz band if Theta is greater than 0° but less than or equal to 5°

where Theta is the angle of elevation of the horizon viewed from the center of radiation of the antenna of the earth station and measured in degrees as positive above the horizontal plane and negative below it.

90256 --- Operation of ESAAs authorized herein are subject to any requirements the Commission may adopt in any future proceeding concerning operations in the 18.3-19.3 GHz, 19.7-20.2 GHz, 28.35-29.1 GHz, and 29.5-30.0 GHz band frequencies including, but not limited to, ESAAs communicating with geostationary orbit space stations.

90257 --- ESAAs authorized herein must be in compliance with the terms of coordination agreements with operators of non-geostationary orbit Fixed Satellite Service space stations operating in the 18.8-19.3 and 28.6-29.1 GHz frequency band. In the event another NGSO FSS system commences operation in the 18.8-19.3 and 28.6-29.1 GHz frequency bands, ESAAs operating pursuant to this authorization must cease operation unless and until such operation has been coordinated with the new NGSO system operator or the ESAA licensee demonstrates that such operation will not cause harmful interference to the new NGSO system.

90398 --- Changes to previously authorized transmitting facilities, operations and devices regulated by the Commission that may have significant environmental impact, and are not excluded by §1.1306, require the preparation of an Environmental Assessment (EA) by the licensee. (See 47 C.F.R. §§1.1307, 1.1308 and 1.1311)

90399 --- The licensee shall, at all times, take all necessary measures to ensure that operation of this (these) authorized earth station(s) does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR §§ 1.1307(b) and 1.1310. Physical measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions, such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling, or by field measurements. The FCC's OET Bulletin 65 (available on-line at www.fcc.gov/oet/rfsafety) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.

90535 --- Communications between licensee aircraft earth stations and the relevant space station must be in compliance with all existing and future space station coordination agreements reached between the space station Administration and other Administrations.

90540 --- Operation pursuant to this authorization must be in compliance with the terms of coordination agreements between the relevant space station operators and operators of other Ku-band geostationary space stations within six angular degrees of those space stations. In the event that another GSO fixed-satellite service space station commences operation in the 14.0-14.5 GHz band at a location within six degrees of any of these space stations, ESAAs operating pursuant to this authorization must cease transmitting to that space station unless and until such operation has been coordinated with the new space station's operator or the licensee demonstrates that such operation will not cause harmful interference to the new co-frequency space station.



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A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

- 90549 --- The ESAAs authorized herein must comply with the terms of the applicable space station authorization(s) as well as the Commission's rules on frequency use, including 47 CFR § 25.202, 47 CFR § 25.228, and applicable footnotes to the Table of Frequency Allocations, 47 CFR § 2.106, including NG52, NG457A, and NG527A.
- 90579 --- Licensee must notify the Commission when all earth stations operating under this authorization are no longer operational or when they have not been used to provide any service during any 6-month operation. Operations pursuant to this license modification must comply with the conditions set forth in the initial earth station blanket license and all subsequent modifications or amendments to the license: IBFS File No. SES-LIC-20170217-00183, Call Sign E170068.
- 90580 --- The applicant's request for a waiver of Section 25.283(c) of the Commission's rules, 47 CFR § 25.283(c), is granted. Section 25.283(c) specifies that space stations must discharge all stored energy sources at end-of-life of the space station. THOR-7 is a Space Systems/Loral LS1300 model spacecraft that was launched on April 26, 2015. Applicant states that THOR-7's has three identical helium tanks that were sealed. Applicant states that each of the three sealed helium tanks will retain a mass of less than 500 grams of helium at end of life, with each tank volume of 50 liters. We grant a waiver of the Section 25.283(c) with respect this de minimis inert gas.
- 900434 --- In the 17.8-20.2 GHz frequency range, in order to protect Federal satellite services, the licensee shall communicate only with the Thor-7 satellite once its operator has completed an agreement with Federal operators pursuant to footnote US334 of the U.S. Table of Frequency Allocations, 47 C.F.R. § 2.106, and that agreement has been approved by both the Federal Communications Commission and the National Telecommunications and Information Administration. The licensee's operations pursuant to this authorization shall be consistent with such US334 agreements.
- 900435 --- ESAA operations authorized by File number SES-MFS-20190424-00544 with coordinated off-axis eirp spectral density level in the GSO plane limit at worst-case skew angle 40° maximum on Thor-7 satellite.



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B) This RADIO STATION AUTHORIZATION is granted subject to the additional conditions specified below:

This authorization is issued on the grantee's representation that the statements contained in the application are true and that the undertakings described will be carried out in good faith.

This authorization shall not be construed in any manner as a finding by the Commission on the question of marking or lighting of the antenna system should future conditions require. The grantee expressly agrees to install such marking or lighting as the Commission may require under the provisions of Section 303(q) of the Communications Act. 47 U.S.C. § 303(q).

Neither this authorization nor the right granted by this authorization shall be assigned or otherwise transferred to any person, firm, company or corporation without the written consent of the Commission. This authorization is subject to the right of use or control by the government of the United States conferred by Section 706 of the Communications Act. 47 U.S.C. § 706. Operation of this station is governed by Part 25 of the Commission's Rules. 47 C.F.R. Part 25.

This authorization shall not vest in the licensee any right to operate this station nor any right in the use of the designated frequencies beyond the term of this license, nor in any other manner than authorized herein.

This authorization is issued on the grantee's representation that the station is in compliance with environmental requirements set forth in Section 1.1307 of the Commission's Rules. 47 C.F.R. § 1.1307.

This authorization is issued on the grantee's representation that the station is in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules. 47 C.F.R. § 17.4.

The following condition applies when this authorization permits construction of or modifies the construction permit of a radio station.

This authorization shall be automatically forfeited if the station does not meet each required construction deadline by the required date of completion unless, before such date(s), a specific application is timely filed to request an extension of the construction deadline(s), supported with good cause why that failure to construct by the required date was due to factors not under control of the grantee.

Licensees are required to pay annual regulatory fees related to this authorization. The requirement to collect annual regulatory fees from regulatees is contained in Public Law 103-66, "The Omnibus Budget Reconciliation Act of 1993." These regulatory fees, which are likely to change each fiscal year, are used to offset costs associated with the Commission's enforcement, public service, international and policy and rulemaking activities. The Commission issues a Report and Order each year, setting the new regulatory fee rates. Receive only earth stations are exempt from payment of regulatory fees.