



**UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION**

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**RADIO STATION AUTHORIZATION**

AT&T Corp.

Call Sign: KA91

**Authorization Type:** Modification of License

**File Number:** SES-MOD-20210804-01336

Common Carrier

**Grant date:** 08/06/2021

**Expiration Date:** 11/12/2021

**Nature of Service:** Fixed Satellite Service

**Class of Station:** Fixed Earth Stations

**A) Site Location(s)**

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	1	1700 SOUTH BARDMAN AVENUE MALIBU, LOS ANGELES, CA 90265	34°4'49.7"N	118°53'47.2"W	330.71	83

Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209

*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 November 12, 2006 (3 AM Eastern Standard Time) and ending November 12, 2021 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is August 6, 2022 (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)	5850.0000-6425.0000	H, V, L, R	18M0F3F-	Tx	85.40	61.40	1		TV
2)	5850.0000-6425.0000	H, V, L, R	30M0F3F	Tx	85.40	61.40	1		
3)	5850.0000-6425.0000	H, V, L, R	1M13F8W-	Tx	71.70	50.10	1		(FDM-FM)
4)	5850.0000-6425.0000	H, V, L, R	36M0F8W	Tx	87.90	50.60	1		(FDM-FM)
5)	5850.0000-6425.0000	H, V, L, R	72M0G7W	Tx	84.80	42.20	1		(TDMA)
6)	5850.0000-6425.0000	H, V, L, R	54K6G7W	Tx	67.50	56.10	1		IDR
7)	5850.0000-6425.0000	H, V, L, R	437KG7W	Tx	76.80	56.40	1		IDR
8)	5850.0000-6425.0000	H, V, L, R	874KG7W-	Tx	79.80	56.40	1		IDR
9)	5850.0000-6425.0000	H, V, L, R	1M31G7W	Tx	81.60	56.50	1		IDR



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10)	5850.0000-6425.0000	H, V, L, R	1M72G7W-	Tx	82.80	56.50	1		IDR
11)	5850.0000-6425.0000	H, V, L, R	5M13G7W	Tx	87.50	56.40	1		IDR
12)	5850.0000-6425.0000	H, V, L, R	6M84G7W	Tx	85.90	53.60	1		IDR
13)	5850.0000-6425.0000	H, V, L, R	81K9G7W	Tx	68.00	54.90	1		IBS
14)	5850.0000-6425.0000	H, V, L, R	164KG7W	Tx	71.00	54.90	1		IBS
15)	5850.0000-6425.0000	H, V, L, R	328KG7W	Tx	74.00	54.90	1		IBS
16)	5850.0000-6425.0000	H, V, L, R	492KG7W	Tx	75.80	54.90	1		IBS
17)	5850.0000-6425.0000	H, V, L, R	655KG7W	Tx	77.00	54.90	1		IBS
18)	5850.0000-6425.0000	H, V, L, R	983KG7W	Tx	78.80	54.90	1		IBS
19)	5850.0000-6425.0000	H, V, L, R	1M97G7W	Tx	81.80	54.90	1		IBS
20)	5850.0000-6425.0000	H, V, L, R	2M62G7W	Tx	83.10	54.90	1		IBS
21)	5850.0000-6425.0000	H, V, L, R	8M34G7W	Tx	87.40	54.20	1		IBS
22)	5850.0000-6425.0000	H, V, L, R	11M2G7W	Tx	88.60	54.10	1		IBS
23)	5850.0000-6425.0000	H, V, L, R	54K6G7W	Tx	69.60	58.20	1		IBS
24)	5850.0000-6425.0000	H, V, L, R	109KG7W	Tx	72.60	58.20	1		IBS
25)	5850.0000-6425.0000	H, V, L, R	218KG7W	Tx	75.60	58.20	1		IBS
26)	5850.0000-6425.0000	H, V, L, R	328KG7W	Tx	77.40	58.30	1		IBS
27)	5850.0000-6425.0000	H, V, L, R	437KG7W	Tx	78.60	58.20	1		IBS
28)	5850.0000-6425.0000	H, V, L, R	655KG7W	Tx	80.40	58.30	1		IBS
29)	5850.0000-6425.0000	H, V, L, R	1M31G7W	Tx	83.40	58.20	1		IBS
30)	5850.0000-6425.0000	H, V, L, R	1M75G7W	Tx	84.70	58.30	1		IBS
31)	5850.0000-6425.0000	H, V, L, R	5M56G7W	Tx	88.90	57.50	1		IBS
32)	5850.0000-6425.0000	H, V, L, R	7M44G7W	Tx	90.10	57.40	1		IBS
33)	5850.0000-6425.0000	H, V, L, R	66M8G7W	Tx	81.20	39.00	1		(TDMA)



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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
34)	5850.0000-6425.0000	H, V, L, R	307KG7W	Tx	55.70	36.90	1		(TDMA)
35)	5850.0000-6425.0000	H, V, L, R	614KG7W	Tx	55.70	33.80	1		(TDMA)
36)	5850.0000-6425.0000	H, V, L, R	1M23G7W	Tx	55.70	30.80	1		(TDMA)
37)	5850.0000-6425.0000	H, V, L, R	38K4G7W	Tx	66.50	56.70	1		SCPC
38)	5850.0000-6425.0000	H, V, L, R	30M0G7W	Tx	77.00	38.20	1		IDR
39)	5850.0000-6425.0000	H, V, L, R	33M4G7W	Tx	77.10	37.70	1		IDR
40)	5850.0000-6425.0000	H, V, L, R	72M0G7W	Tx	88.80	46.25	1		IDR
41)	5850.0000-6425.0000	H, V, L, R	36M0G7W	Tx	77.00	37.40	1		IDR
42)	5850.0000-6425.0000	H, V, L, R	36M0G7W	Tx	77.00	37.40	1		IDR
43)	5850.0000-6425.0000	H, V, L, R	33M4G7W	Tx	77.00	37.80	1		IDR
44)	3625.0000-4200.0000	H, V, L, R	18M0F3F	Rx			1		
45)	3625.0000-4200.0000	H, V, L, R	30M0F3F	Rx			1		
46)	3625.0000-4200.0000	H, V, L, R	1M13F8W	Rx			1		
47)	3625.0000-4200.0000	H, V, L, R	72M0G7W	Rx			1		
48)	3625.0000-4200.0000	H, V, L, R	54K6G7W	Rx			1		
49)	3625.0000-4200.0000	H, V, L, R	437KG7W	Rx			1		
50)	3625.0000-4200.0000	H, V, L, R	874KG7W	Rx			1		
51)	3625.0000-4200.0000	H, V, L, R	1M31G7W	Rx			1		
52)	3625.0000-4200.0000	H, V, L, R	1M72G7W	Rx			1		
53)	3625.0000-4200.0000	H, V, L, R	5M13G7W	Rx			1		
54)	3625.0000-4200.0000	H, V, L, R	6M84G7W	Rx			1		
55)	3625.0000-4200.0000	H, V, L, R	81K9G7W	Rx			1		
56)	3625.0000-4200.0000	H, V, L, R	164KG7W	Rx			1		
57)	3625.0000-4200.0000	H, V, L, R	328KG7W	Rx			1		



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58)	3625.0000-4200.0000	H, V, L, R	492KG7W	Rx			1		
59)	3625.0000-4200.0000	H, V, L, R	655KG7W	Rx			1		
60)	3625.0000-4200.0000	H, V, L, R	983KG7W	Rx			1		
61)	3625.0000-4200.0000	H, V, L, R	1M97G7W	Rx			1		
62)	3625.0000-4200.0000	H, V, L, R	2M62G7W	Rx			1		
63)	3625.0000-4200.0000	H, V, L, R	8M34G7W	Rx			1		
64)	3625.0000-4200.0000	H, V, L, R	11M2G7W	Rx			1		
65)	3625.0000-4200.0000	H, V, L, R	54K6G7W	Rx			1		
66)	3625.0000-4200.0000	H, V, L, R	109KG7W	Rx			1		
67)	3625.0000-4200.0000	H, V, L, R	218KG7W	Rx			1		
68)	3625.0000-4200.0000	H, V, L, R	437KG7W	Rx			1		
69)	3625.0000-4200.0000	H, V, L, R	655KG7W	Rx			1		
70)	3625.0000-4200.0000	H, V, L, R	1M31G7W	Rx			1		
71)	3625.0000-4200.0000	H, V, L, R	1M75G7W	Rx			1		
72)	3625.0000-4200.0000	H, V, L, R	5M56G7W	Rx			1		
73)	3625.0000-4200.0000	H, V, L, R	7M44G7W	Rx			1		
74)	3625.0000-4200.0000	H, V, L, R	30M7G7W	Rx			1		
75)	3625.0000-4200.0000	H, V, L, R	66M8G7W	Rx			1		
76)	3625.0000-4200.0000	H, V, L, R	307KG7W	Rx			1		
77)	3625.0000-4200.0000	H, V, L, R	614KG7W	Rx			1		
78)	3625.0000-4200.0000	H, V, L, R	1M23G7W	Rx			1		
79)	3625.0000-4200.0000	H, V, L, R	38K4G7W	Rx			1		
80)	3625.0000-4200.0000	H, V, L, R	30M0G7W	Rx			1		
81)	3625.0000-4200.0000	H, V, L, R	33M4G7W	Rx			1		



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#	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
82)	3625.0000-4200.0000	H, V, L, R	72M0G7W	Rx			1		
83)	3625.0000-4200.0000	H, V, L, R	36M0G7W	Rx			1		
84)	3625.0000-4200.0000	H, V, L, R	36M0G7W	Rx			1		
85)	3625.0000-4200.0000	H, V, L, R	33M4G7W	Rx			1		
86)	5850.0000-6425.0000	H, V, L, R	30M7G7W	Tx	77.00	38.20	1		(TDMA)
87)	3625.0000-4200.0000	H, V, L, R	36M0F8W	Rx			1		
88)	3625.0000-4200.0000	H, V, L, R	328KG7W	Rx			1		

**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)	5850.0000-6425.0000	52.0W	-187.0W	10.4	-09.4	103.5	-257.3	8.7	1
2)	3625.0000-4200.0000	52.0W	-187.0W	10.4	-09.4	103.5	-257.3	0	1

**D) Points of Communications**

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

- 1) 1 to Permitted Space Station List
- 2) 1 to INTELSAT 23 (S2831) @ 53 degrees W.L. (U.S.-licensed)
- 3) 1 to INTELSAT 21 (S2863) @ 58.0 degrees W.L. (U.S.-licensed)
- 4) 1 to INTELSAT 18 (S2817) @ 180 degrees E.L. (U.S.-licensed)
- 5) 1 to INTELSAT 34 (S2915) @ 55.5 degrees W.L. (U.S.-licensed)



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**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)
1	1	1	32	ROHR INDUSTRIES, INC	10578	330.71	38.1 AGL/ 368.9 AMSL	
Max Gains(s):		64.0 dBi @	6.0000 GHz	61.0 dBi @	4.0000 GHz			
Maximum total input power at antenna flange (Watts) =					753.50			
Maximum aggregate output EIRP for all carriers (dBW) =					92.80			

**F) Remote Control Point:**

1	ROARING CREEK EARTH STATION RD #3 BOX 49 CATAWISSA, PA 17820- (717)799-1042	Call Sign: KA91
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**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.
- 5 --- Licensee must notify the Commission when this earth station is no longer operational or when it has not been used to provide any service during any 6-month operation.
- 6 --- Licensee must comply with the license modification and notification requirements of 47 CFR § 25.118 to change the coordinates of its authorized earth station.

5225 --- This action constitutes the final step with respect to the provision of the services only insofar as the US regulatory process is concerned. However, this authority shall not be construed as authorizing the distribution of programming where the appropriate copyright clearances have not been obtained or where the U.S. Government has determined that appropriate copyright protection does not otherwise exist.

5738 --- This authorization is subject to the conditions and terms set forth in the Commission's Order and Authorization, FCC 99-210, released August 6, 1999, and Memorandum Opinion and Order, FCC 01-107, released March 29, 2001, and New Skies Satellites N.V., Petition for Declaratory Ruling, Order, DA 01-513 (Int'l Bureau, Satellite and Radiocommunication Division, released Mar. 29, 2001)



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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:

- 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](http://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.
- 90405 --- Operations with PERMITTED LIST satellite must comply with §25.212 levels and operations above these levels must coordinate with satellite operators prior to operations.
- 90470 --- The application for this authorization was filed within the 194-day filing window for FSS earth stations operating in the 3700-4200 MHz frequency band as of April 19, 2018, as established by Public Notice DA 18-398 (rel. Apr. 19, 2018) and Public Notice DA-18-639 (rel. Jun. 21, 2018), and Public Notice DA 18-1061 (rel. Oct. 17, 2018).
- 90471 --- The application for this authorization was filed with a coordination report therefore operations of this earth station in the 3700-4200 MHz band are protected within the limits establish by the coordination report filed.
- 900407 --- The Permitted Space Station List (Permitted List) is a list of all geostationary space stations providing fixed-satellite service pursuant to a Commission license or grant of U.S. market access. The Permitted List currently includes the following frequency bands per §25.103 and §25.115(k)(1):

3600-4200 MHz (space-to-Earth)  
5850-6725 MHz (Earth-to-space)  
10.95-11.2 GHz (space-to-Earth)  
11.45-12.2 GHz (space-to-Earth)  
13.75-14.5 GHz (Earth-to-space)  
18.3-18.8 GHz (space-to-Earth)  
19.7-20.2 GHz (space-to-Earth)  
24.75-25.25 GHz (Earth-to-space)  
28.35-28.6 GHz (Earth-to-space)  
29.25-30.0 GHz (Earth-to-space).

Earth stations with "Permitted List" designated as a point of communication may access any space station on the Permitted List, provided the operations comply with the applicable "routine" uplink and downlink limits, are within the specific frequency bands authorized in the earth station license, have completed coordination with terrestrial stations pursuant to §25.203, and otherwise comply with all terms and conditions of both the earth station license and the space station grant.



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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 is not ready for operation by the required date of completion of construction unless an application for modification of authorization to request additional time to complete construction is filed by that date, together with a showing that failure to complete construction 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.**