

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

WL2XAN

(Call Sign)

XT MO

(Class of Station)

0396-EX-CN-2020

(File Number)

NAME General Atomics Aeronautical Systems, Inc.

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(j) of the Commission's Rules

Station Locations

- (1) MOBILE: Southern California national airspace, 2k-30k' MSL, within 375 km, centered around NL 34-00-00; WL 118-00-00
- (2) MOBILE: ND, FAA-approved airspace, 2k-30k' MSL, within 115 km, centered around NL 48-35-00; WL 98-30-00
- (3) MOBILE: ND, FAA-approved airspace, 2k-30k' MSL, within 40 km, centered around NL 47-41-00; WL 98-40-00

Frequency Information

MOBILE: Southern California national airspace, 2k-30k' MSL, within 375 km, centered around NL 34-00-00; WL 118-00-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.201-18.24 GHz	MO	1G56Q3N 1G88Q3N 295MQ3N 636MQ3N	460 kW (ERP)	0.0005 %

This authorization effective August 03, 2020 and
will expire 3:00 A.M. EST August 01, 2024

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: ND, FAA-approved airspace, 2k-30k' MSL, within 115 km, centered around NL 48-35-00; WL 98-30-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.201-18.24 GHz	MO	1G56Q3N 1G88Q3N 295MQ3N 636MQ3N	460 kW (ERP)	0.0005 %

MOBILE: ND, FAA-approved airspace, 2k-30k' MSL, within 40 km, centered around NL 47-41-00; WL 98-40-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.201-18.24 GHz	MO	1G56Q3N 1G88Q3N 295MQ3N 636MQ3N	460 kW (ERP)	0.0005 %

Special Conditions:

- (1) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (4) The occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (5) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at https://www.sbe.org/sections/freq_local.php to find the appropriate coordinator.

Special Conditions:

- (6) Prior to commencing any operations in the 17.3-18.24. GHz band frequency band, the applicant must notify the earth station licensees listed below of its test dates and provide a stop buzzer in case of interference:

Parameters: Latitude=34° 00' 00", Longitude=118° 00' 00":
Call Sign: E090068 File Number: SES-LIC-20090407-00432

Licensee: DIRECTV Enterprises, LLC
ATTN: Ms Jacquelyne Flemming
Phone: 2024573032 x Fax: E-Mail: jackie.flemming@att.com

Counsel: Wiley Rein LLP
ATTN:
Phone: (202) 719-4975 Fax: E-Mail:

DistanceLatitude
LongitudeSite Address/
Contact InformationElevation
AMSLFrequency Lo/
Frequency Hi

24.39 33° 59' 0.0" N NAD83
118° 25' 29.0" W
12800 Culver Boulevard
Los Angeles, CA
Chris Homer 310-964-8001 4.6 00017300.00000000 T
00017800.00000000

Call Sign: E090069 File Number: SES-MOD-20171012-01155

Licensee: DIRECTV Enterprises, LLC
ATTN: Ms Jacquelyne Flemming
Phone: 2024573032 x Fax: E-Mail: jackie.flemming@att.com

Counsel: Wiley Rein LLP
ATTN:
Phone: 202-719-4975 Fax: E-Mail:

DistanceLatitude
LongitudeSite Address/
Contact InformationElevation
AMSLFrequency Lo/
Frequency Hi

24.41 33° 58' 59.45" N NAD83

Speci 118° 25' 30.4" W
12800 Culver Boulevard
Los Angeles, CA
Chris Homer 310-964-8001 4.6 00017300.00000000 T
00017800.00000000

Call Sign: E980285File Number: SES-MOD-20190626-00845

Licensee: DIRECTV Enterprises, LLC
ATTN: Steve Dulac
Phone: 310-964-4996 Fax: E-Mail: spdulac@att.com

Counsel: WILEY REIN LLP
ATTN:
Phone: 202-719-4183 Fax: E-Mail:

DistanceLatitude
LongitudeSite Address/
Contact InformationElevation
AMSLFrequency Lo/
Frequency Hi

24.42 33° 58' 56.5" N NAD83
118° 25' 31.2" W
12800 CULVER BLVD.
LOS ANGELES, CA
LISA SHIPLEY 3109648050 4.6 00017300.00000000 T
00017800.00000000

Call Sign: E010129File Number: SES-MOD-20171012-01153

Licensee: DIRECTV Enterprises, LLC
ATTN: Ms Jacquelyne Flemming
Phone: 2024573032 x Fax: E-Mail: jackie.flemming@att.com

Counsel: Wiley Rein LLP
ATTN:
Phone: 202-719-4975 Fax: E-Mail:

DistanceLatitude
LongitudeSite Address/
Contact InformationElevation
AMSLFrequency Lo/
Frequency Hi

00017800.00000000

Speci 24.43 33° 58' 58.75" N NAD83
 118° 25' 31.5" W
 12800 Culver Blvd.
 Los Angeles, CA
 Guy Beverlin 310-964-8001 5.0 00017300.00000000 T
 00017800.00000000

Call Sign: E990159 File Number: SES-MOD-20171012-01145

Licensee: DIRECTV Enterprises, LLC
 ATTN: Ms Jacquelyne Flemming
 Phone: 2024573032 x Fax: E-Mail: jackie.flemming@att.com

Counsel: Wiley Rein LLP
 ATTN:
 Phone: 202-719-4975 Fax: E-Mail:

DistanceLatitude
 LongitudeSite Address/
 Contact InformationElevation
 AMSLFrequency Lo/
 Frequency Hi

24.43 33° 58' 57.1" N NAD83
 118° 25' 31.8" W
 12800 CULVER BLVD.
 LOS ANGELES, CA
 RICHARD SLENKER 310-964-8001 4.6 00017300.00000000 T
 00017800.00000000

Call Sign: E160062 File Number: SES-MOD-20171012-01144

Licensee: DIRECTV Enterprises, LLC
 ATTN: Ms Jacquelyne Flemming
 Phone: 2024573032 x Fax: E-Mail: jackie.flemming@att.com

Counsel: Wiley Rein LLP
 ATTN:
 Phone: 202-719-4975 Fax: E-Mail:

DistanceLatitude
 LongitudeSite Address/
 Contact InformationElevation
 AMSLFrequency Lo/
 Frequency Hi

Specific 24.45 33° 58' 58.0" N NAD83
 118° 25' 33.0" W
 12800 Culver Boulevard
 Los Angeles, CA
 Michael Owojori 310-964-8491 4.6 00017300.00000000 R
 00017700.00000000

Call Sign: E970336 File Number: SES-MFS-20121128-01044

Licensee: SES Americom, Inc.
 ATTN: Daniel C.H Mah
 Phone: 2024787137 x Fax: 2024787101 E-Mail: daniel.mah@ses.com

Counsel: SATCOM LAW LLC
 ATTN:
 Phone: 202-599-0975 Fax: E-Mail:

DistanceLatitude
 LongitudeSite Address/
 Contact InformationElevation
 AMSLFrequency Lo/
 Frequency Hi

61.22 34° 19' 31.0" N NAD27
 118° 59' 41.0" W
 5990 SOLANO VERDE DRIVE
 SOMIS, CA
 DAVE WESTLUND 805-386-4195 311.0 00017300.00000000 T
 00017800.00000000

Call Sign: E170090 File Number: SES-LIC-20170407-00375

Licensee: SES Americom, Inc.
 ATTN: Ms Petra A Vorwig
 Phone: 202-478-7143 Fax: 202-478-7111 E-Mail: petra.vorwig@ses.com

Counsel: SES AMERICOM, INC.
 ATTN:
 Phone: 609-987-4327 Fax: E-Mail:

DistanceLatitude
 LongitudeSite Address/
 Contact InformationElevation
 AMSLFrequency Lo/
 Frequency Hi

Specific

61.26 34° 19' 31.2" N NAD83
 118° 59' 43.6" W
 5990 Solano Verde Dr
 Somis, CA
 David Coyle 805 386 2712 308.0 00017300.00000000 T
 00017550.00000000

Call Sign: E160092 File Number: SES-LIC-20160610-00522

Licensee: ViaSat, Inc.
 ATTN: Mr. Daryl T Hunter
 Phone: 760-476-2583 Fax: 760-929-3941 E-Mail: daryl.hunter@viasat.com

Counsel: SAME AS APPLICANT
 ATTN:
 Phone: 760-476-2583 Fax: E-Mail:

DistanceLatitude
 LongitudeSite Address/
 Contact InformationElevation
 AMSLFrequency Lo/
 Frequency Hi

73.69 33° 7' 41.2" N NAD83
 117° 15' 54.9" W
 2502 Gateway Rd
 Carlsbad, CA
 Daryl T Hunter 760-476-2583 93.0 00017700.00000000 R
 00018300.00000000

00017800.00000000 R
 00019300.00000000

Call Sign: E150138 File Number: SES-LIC-20151113-00843

Licensee: DIRECTV Enterprises, LLC
 ATTN: Ms Jacquelyne Flemming
 Phone: 2024573032 x Fax: E-Mail: jackie.flemming@att.com

Counsel: Wiley Rein LLP
 ATTN:

Special Phone: 202-719-4975 Fax: E-Mail:

DistanceLatitude
LongitudeSite Address/
Contact InformationElevation
AMSLFrequency Lo/
Frequency Hi

109.33 35° 18' 35.0" N NAD83
119° 4' 32.6" W
4901 Ashe Road
Bakersfield, CA
Michael Owojori 310-964-8491 112.0 00017300.00000000 R
00017700.00000000

Call Sign: E170103File Number: SES-LIC-20170428-00485

Licensee: DIRECTV Enterprises, LLC
ATTN: Jack Wengryniuk
Phone: 301-663-0053 Fax: 240-358-0569 E-Mail: jw0854@att.com

Counsel: Wiley Rein LLP
ATTN:
Phone: 202-719-4975 Fax: E-Mail:

DistanceLatitude
LongitudeSite Address/
Contact InformationElevation
AMSLFrequency Lo/
Frequency Hi

109.34 35° 18' 33.9" N
119° 4' 35.5" W
4901 Ashe Road
Bakersfield, CA
Michael Owojori 310-964-8491 112.01 00017300.00000000 T
00017800.00000000

Call Sign: E160110File Number: SES-MOD-20171221-01375

Licensee: ViaSat, Inc.
ATTN: Christopher J. Murphy
Phone: 760-893-3269 Fax: E-Mail: Christopher.murphy@viasat.com

Counsel: LATHAM & WATKINS LLP

Speci ATTN:

Phone: 202-637-1056 Fax: E-Mail:

DistanceLatitude
LongitudeSite Address/
Contact InformationElevation
AMSLFrequency Lo/
Frequency Hi

222.12 36° 8' 33.7" N NAD83
115° 4' 38.1" W
4485 E Sahara Ave
Las Vegas, NV
Daryl T Hunter 760-476-2583 535.0 00017700.00000000 R
00018300.00000000

00017800.00000000 R
00019300.00000000

(7) Stop buzzer: Russ Herrell
Phone Number: 858-924-7974
E-Mail Address: russell.herrell@ga-asi.com