# OKO GRANT-IN-PART/DEFER-IN-PART \*\*

File # SAT-LOA-20210212-60021; SAT-AMD-20210831-60119

Call Sign \$3082 Grant Date Dec. 2,2021

Approved by OMB 3060-0678

From See conditions

To: See conditions

\* with conditions

Merissa L. Velez Chief, Satellite Policy Branch

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD - MAIN FORM

FCC 312 MAIN FORM FOR OFFICIAL USE ONLY

FCC Use Only

## **APPLICANT INFORMATION**

Date & Time Filed: Aug 31 2021 9:27:04:886AM File Number: SAT-AMD-20210831-00119

Enter a description of this application to identify it on the main menu:

Amendment to Application for Authority to Launch and Operate a Small Satellite Non-Geostationary Orbit Constellation to Provide Remote Sensing Services in the Earth Exploration Satellite Service Using Synthetic Aperture Radar

1_8	Legal	Name	of An	plicant
1-0.	Legai	Name	or wh	piicani

Name:

ICEYE US, Inc.

**Phone Number:** 

949-257-9864

**DBA** 

Name:

Fax Number:

Street:

70 Discovery

E-Mail:

dee.grover@iceye.us

City:

Irvine

State:

CA

**Country:** 

USA

Zipcode:

92618

**Attention:** Mr. Dee Grover

ICEYE US. Inc.

IBFS File Nos. SAT-LOA-20210212-00021; SAT-AMD-20210831-00119

IBFS File No(s):	SAT-LOA-20210212-00021; <sup>1</sup> SAT-AMD-20210831-	GRANTED IN PART/			
	001192	DEFERRED IN PART			
Licensee/Grantee:	ICEYE US, Inc. (ICEYE)	With Conditions			
Call Sign:	S3082	INITED STATE			
Satellite Name:	ICEYE US	UNIT BOOK IN			
Orbital Location:	Non-geostationary satellite orbit (NGSO), initial				
(required station-	deployment to $\sim$ 550 km altitude ( $\pm$ 50 km), 97.7 degrees	EDE			
keeping tolerance)	(±1 degree) inclination, Local Time of Descending Node				
	(LTDN) of 9:00 AM	OMMUNICATIONS CO.			
Administration:	United States of America	International Bureau			
Nature of Service:	Earth Exploration Satellite Service (EESS)	Satellite Division			
Scope of Grant:	Authority to construct, deploy, and operate one NGSO sat	tellite <sup>3</sup>			
Service Area(s):	Global, subject to limitations in specific frequency bands				
Frequencies:	8025-8400 MHz (center frequency 8212.5 MHz, bandwidd frequency 8300.0 MHz, bandwidth 150 MHz) (space-to-ESynthetic Aperture Radar (SAR): 9300-9900 MHz (center frequency 9600 MHz, bandwidth bandwidths 150 MHz, 200 MHz, and 300 MHz) (space-to-Telemetry, Tracking and Command frequencies: 2200-2290 MHz (center frequency 2277.3 MHz, bandwidth) (outside U.S. only) 2025-2110 MHz (center frequency 2086.9 MHz, bandwidth)	width 375 MHz; and center o-Earth)  Ath 600 MHz; 9650.0 MHz, o-to-Earth)  width 3 MHz) <sup>4</sup> (space-to-Earth)			

Operations under this grant must comport with the legal and technical specifications set forth by the applicant or petitioner and with the Federal Communications Commission's rules not waived herein. This grant is also subject to the following conditions:

- 1. ICEYE must timely provide the Commission with the information required for Advance Publication, Coordination, and Notification of the frequency assignment(s) for this constellation, including due diligence information, pursuant to Articles 9 and 11 of the ITU Radio Regulations. This authorization may be modified, without prior notice, consistent with the coordination of the frequency assignment(s) with other Administrations. See 47 CFR § 25.111(b). ICEYE is responsible for all cost-recovery fees associated with the ITU filings. 47 CFR § 25.111(d).
- 2. ICEYE's request for its application to be processed under the rules for streamlined licensing of small satellites is GRANTED. We find that the operations requested in this application, meet the criteria listed

<sup>&</sup>lt;sup>1</sup> The application was originally placed on public notice on April 16, 2021. *Policy Branch Information Satellite Space Station Applications Accepted for Filing*, Public Notice, Report No. SAT-01544 (Apr. 16, 2021).

<sup>&</sup>lt;sup>2</sup> The amendment was placed on public notice on October 1, 2021. *Policy Branch Information Satellite Space Station Applications Accepted for Filing*, Public Notice, Report No. SAT-01582 (Oct. 1, 2021).

<sup>&</sup>lt;sup>3</sup> ICEYE requested authority to deploy, launch, and operate six satellites. We grant-in-part ICEYE's request with respect to the first satellite, and defer action regarding the remaining five satellites.

<sup>&</sup>lt;sup>4</sup> ICEYE clarified this center frequency and bandwidth as a result of coordination with federal operators. *See* Letter from Robert S. Koppel, Counsel to ICEYE (filed Nov. 29, 2021).

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in section 25.122 of the Commission's rules, 47 CFR § 25.122, for streamlined small satellite applicants.<sup>5</sup> We conclude that the ICEYE operations are compatible with existing operations in the requested frequency bands and will not materially constrain future space station entrants from using the requested frequency bands.<sup>6</sup>

- 3. ICEYE is required to successfully coordinate with NTIA prior to submitting any ITU filing involving any ground stations outside of the United States and Possessions (US&P) that operate in the frequency band 2200-2290 MHz. The 2200-2290 MHz band is allocated to Space Operations (space-to-Earth) and EESS (space-to-Earth) in all ITU Regions, but in the United States the band is only allocated for Federal use. Operations in the 2200-2290 MHz frequency band are permitted for use only outside of the US&P. NTIA will consider the request by ICEYE for access to the 2200-2290 MHz for ground stations located outside of US&P on a case-by-case coordinated basis<sup>7</sup> with appropriate EMC analysis to NTIA (ravery@ntia.gov), AFSMO (jimmy.nguyen@us.af.mil), NASA (john.e.zuzek@nasa.gov) and DOC (david.franc@noaa.gov) to ensure compatibility of operations with the Federal government.
- 4. Operations pursuant to this authorization must not cause harmful interference to stations operating in the 2025-2110 MHz band in accordance with the U.S. Table of Frequency Allocations. *See* 47 CFR § 2.106, footnote US347.
- 5. Transmissions in the 2025-2110, 2200-2290, and 8025-8400 MHz frequency bands may only be made to/from Federal earth stations or earth stations coordinated with the National Aeronautics and Space Administration (NASA), the Air Force Spectrum Management Office (AFSMO), DOC/NOAA, and the Department of the Navy (DON). A list of coordinated non-Federal earth stations is attached in Appendix A. ICEYE shall provide the FCC with an updated list of coordinated non-Federal earth stations within ten business days following any changes to this list.<sup>8</sup>

<sup>&</sup>lt;sup>5</sup> See 47 CFR § 25.122; see also ICEYEUS, Inc., IBFS File No. SAT-LOA-20210212-00021, Legal Narrative at 5-6 (specifying compliance with the qualifying criteria in 47 CFR § 25.122(c)).

<sup>&</sup>lt;sup>6</sup> See 47 CFR § 25.122(c)(9), (d)(3). Operations in the 8025-8400 MHz (space-to-Earth), 2200-2290 (space-to-Earth), and 2025-2110 (Earth-to-space) frequency bands will be limited to those times when the space stations are communicating with one of the planned earth stations, which will be coordinated with Federal operators. ICEYE states that it will share up-to-date orbital characteristics, transmitting windows, and any other information required to ensure ICEYE's successful sharing of spectrum with other services, and that the ICEYE Mission Operations Center will be capable of defining "dark zones" in which the satellites will not transmit. For SAR operations in the 9300-9900 MHz band, the duration of transmissions will be short, with a maximum imaging time for the satellites of 2700 seconds per day. The 3 dB beamwidth of the SAR antenna is 0.4 x 1.0 degree.

<sup>&</sup>lt;sup>7</sup> See Appendix A for a list of coordinated ground station locations.

<sup>&</sup>lt;sup>8</sup> See Letter from Robert S. Koppel, Counsel to ICEYE, to Marlene H. Dortch, Secretary, FCC (filed June 1, 2021). Maxar Technologies, Inc. (Maxar) commented that ICEYE's application was defective because ICEYE did not provide detail regarding earth station operations. Maxar further commented that ICEYE did not provide sufficient details regarding spectrum sharing in the S-band and X-band and requested that ICEYE provide a good faith showing that it has commenced coordination with incumbent operators. See Letter from Henry Gola, Counsel to Maxar, to Marlene H. Dortch, Secretary, FCC (filed May 17, 2021). ICEYE subsequently provided a list of ground stations with which it will communicate outside of the United States, in addition to the ground station in Irvine, California, reiterated its analysis of the X-band PFD limits, provided technical information regarding uplink transmissions in the S-band, and invited non-federal operators to contact ICEYE to coordinate operations. See Letter from Robert S. Koppel, Counsel to ICEYE, to Marlene H. Dortch, Secretary, FCC (filed June 1, 2021). Maxar confirmed that ICEYE's response satisfactorily addressed its concerns. See Letter from Robert S. Koppel, Counsel to ICEYE US, Attachment (filed Nov. 17, 2021) (ICEYE Nov. 17, 2021 Letter) (attached email from Michael Martinez, VP, Space Engineering, Maxar).

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- 6. Power flux-density limits from operation in the 8025-8400 MHz band must not exceed the limits in No. 22.5 and Table 21-4 of the ITU Radio Regulations, the limits/protection criteria in Recommendation ITU-R SA.1157-1 must be met, and the guidelines in Recommendation ITU-R SA. 1810 must be followed.
- 7. For ICEYE's 8025-8400 MHz downlink to Inuvik and Svalbard earth stations, transmissions must cease when any of the ICEYE US, Inc. satellites come within a 2-degree conjunction angle of the Suomi-NPP satellite when it is transmitting to its NOAA earth stations in Fairbanks and Svalbard. The conjunction angle is measured from the boresight of the NOAA earth station antenna.
- 8. For ICEYE's downlink in the 2200-2290 MHz frequency band, ICEYE must limit the duty cycle for transmissions to the Svalbard ground station to 20%.
- 9. For ICEYE's downlinks in the 8025-8400 MHz frequency band, ICEYE will limit the duty cycle for transmissions to the Svalbard ground station to 45%.
- 10. EESS (active) operations in the 9500-9800 MHz (space-to-Earth) frequency band are allocated on a secondary basis in the U.S. Table of Allocations, 47 CFR § 2.106. Accordingly, ICEYE must accept interference from and not cause interference to any services, including Federal operations, operating on a primary basis in the 9500-9800 MHz band. The ICEYE satellites SAR operations will transmit a pulsed signal and will only transmit over specific areas of the Earth and for short bursts. The pulse width and repetition frequency of the ICEYE satellite SAR transmission are variable. Additionally, the antenna gain is variable and can be adjusted as required to further mitigate interference.
- 11. ICEYE must maintain for any satellite in sun synchronous orbit, the Local Time of Descending Node (LTDN) of 9:00 AM time value to not be in-phase with Federal agencies satellite systems.<sup>9</sup>
- 12. ICEYE must coordinate physical operations of spacecraft with any operator using similar orbits, for the purpose of eliminating collision risk and minimizing operational impacts. The orbital parameters specified in this grant are subject to change based on such coordination.
- 13. Upon receipt of a conjunction warning from the 18th Space Control Squadron or other source, ICEYE must review and take all possible steps to assess the collision risk, and mitigate collision risk if necessary. As appropriate, steps to assess and mitigate should include, but are not limited to: contacting the operator of any active spacecraft involved in such warning; sharing ephemeris data and other appropriate operational information with any such operator; and modifying spacecraft attitude and/or operations.
- 14. Unless extended by the Commission for good cause shown, this authorization will become null and void in the event the ICEYE space station is not constructed and launched in accordance with the schedule set forth in section 25.164 of the Commission's rules, as follows:
  - a. In the event that the ICEYE space station has not been launched, placed into the assigned orbit, and begun operations in accordance with this grant by **December 2, 2022**, <sup>10</sup> ICEYE must post a surety bond in satisfaction of 47 CFR §§ 25.165(a)(1) & (b) no later than **January 1, 2023**, thereafter maintain on file a surety bond requiring payment in the event of a default in an amount, at minimum, determined according to the formula set forth in 47 CFR § 25.165(a)(1); and
  - b. ICEYE must launch the ICEYE space station, place it into the assigned orbit, and operate the space station in accordance with this grant no later than **December 2, 2027**. 47 CFR § 25.164(b).

<sup>&</sup>lt;sup>9</sup> See ICEYE Nov. 17, 2021 Letter (providing the LTDN in Appendix 1).

 $<sup>^{10}</sup>$  We note that since this application is being processed under the rules for streamlined licensing of small satellites, the requirement for ICEYE to post a surety bond in accordance with 47 CFR § 25.165(a)(1) & (b) is deferred by one year following the date of grant in accordance with the grace period adopted in FCC 19-81. See 47 CFR 25.165(a).

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15. The license term is six years and will begin on 3 a.m. EST on the date that ICEYE certifies to the Commission that the ICEYE space station has been successfully placed into orbit and its operations fully conform to the terms and conditions of this authorization. ICEYE must file such certification within five business days of placing the space station into operation.

Licensee/grantee is afforded thirty (30) days from the date of release of this action to decline the grant as conditioned. Failure to respond within this period will constitute formal acceptance of the grant as conditioned.

This action is taken pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 CFR § 0.261, and is effective upon release.

Station licenses are subject to the conditions specified in Section 309(h) of the Communications Act of 1934, as amended, 47 U.S.C. § 309(h).

Action	December 2, 2021	
Date:		
Term Dates	From: see conditions	To: see conditions

Approved:

Merissa L. Velez

Chief, Satellite Policy Branch

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ICEYE US, Inc.
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## Appendix A: Earth Station Locations<sup>11</sup> Coordinated with Federal Agencies

- 1. Svalbard, Norway
- 2. TrollSat, Antarctica
- 3. Hartebeesthoek, South Africa
- 4. Arwaua, New Zealand
- 5. Punta Arenas, Chile
- 6. Puertollano, Spain
- 7. Mingenew, West Australia
- 8. Inuvik, Canada

<sup>&</sup>lt;sup>11</sup> See Letter from Robert S. Koppel, Counsel to ICEYE, to Marlene H. Dortch, Secretary, FCC (filed June 1, 2021).

9–16. Name of Contact Representative

Name: Robert S. Koppel **Phone Number:** 703–584–8669

Company: Lukas, LaFuria, Gutierrez & Fax Number:

Sachs, LLP

Street: 8300 Greensboro Drive, Suite 1 E–Mail: bkoppel@fcclaw.com

Suite 1200

City: Tysons State: VA

Country: USA Zipcode: 22102–

Attention: Relationship: Legal Counsel

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.  a1. Earth Station a2. Space Station	(N/A) b1. Application for License of New Station (N/A) b2. Application for Registration of New Domestic Receive—Only Station b3. Amendment to a Pending Application b4. Modification of License or Registration b5. Assignment of License or Registration b6. Transfer of Control of License or Registration b7. Notification of Minor Modification (N/A) b8. Application for License of New Receive—Only Station Using Non—U.S. Licensed Satellite (N/A) b9. Letter of Intent to Use Non—U.S. Licensed Satellite to Provide Service in the United States (N/A) b10. Other (Please specify) (N/A) b11. Application for Earth Station to Access a Non—U.S.satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States (N/A) b12. Application for Database Entry b13. Amendment to a Pending Database Entry Application b14. Modification of Database Entry
17c. Is a fee submitted with this application of the feet and attach FCC Form of the Governmental Entity of Noncomme Other(please explain):	159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).
17d.  Fee Classification CAW – Space Station A Geostationary)	amendment(Non-

18. If this filing is in reference to an existing station, enter:	19. If this filing is an amen modification please enter of		application enter both fields, if this filing is a
(a) Call sign of station:	(a) Date pending application	on was filed:	(b) File number:
	02/12/2021		SATLOA2021021200021
TYPE OF SERVICE			
20. NATURE OF SERVICE: This filing is	for an authorization to provid	e or use the followin	g type(s) of service(s): Select all that apply:
a. Fixed Satellite b. Mobile Satellite c. Radiodetermination Satellite d. Earth Exploration Satellite e. Direct to Home Fixed Satellite f. Digital Audio Radio Service g. Other (please specify)			
21. STATUS: Choose the button next to the	applicable status. Choose	1	applicant, check all that apply.
only one. Common Carrier Non–Common	ı Carrier	Using U.S. lice	
Troit Common		Using Non–U.	S. licensed satellites

23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these

O Connected to a Public Switched Network Not connected to a Public Switched Network N/A

facilities:

24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all applicable frequency band(s).							
a. C–Band (4/6 GHz) b. Ku–Band (12/14 GHz)							
c.Other (Please specify upper and lower frequencies in MHz.)							
Frequency Lower: 8025	Frequency Upper: 8400	(Please specify additional frequencies in an attachment)					
TYPE OF STATION							
25. CLASS OF STATION: Choose	the button next to the class of station	that applies. Choose only one.					
a. Fixed Earth Station							
b. Temporary–Fixed Earth Sta	tion						
c. 12/14 GHz VSAT Network							
d. Mobile Earth Station							
e. Geostationary Space Station							
f. Non-Geostationary Space S	tation						
g. Other (please specify)							
26. TYPE OF EARTH STATION I	ACILITY:						
Transmit/Receive Transmit-Only Receive-Only N/A							
"For Space Station applications, select N/A."							

# PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)
a — authorization to add new emission designator and related service
b — authorization to change emission designator and related service
c — authorization to increase EIRP and EIRP density
d — authorization to replace antenna
e — authorization to add antenna
f — authorization to relocate fixed station
g — authorization to change frequency(ies)
h — authorization to add frequency
i — authorization to add Points of Communication (satellites & Double
j — authorization to change Points of Communication (satellites & Double of Communication (satellites & Doub
k — authorization for facilities for which environmental assessment and
radiation hazard reporting is required
1 — authorization to change orbit location
m — authorization to perform fleet management
n — authorization to extend milestones
o — Other (Please specify)

### **ENVIRONMENTAL POLICY**

under the laws of a foreign country?

impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.		,	•				
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeror aeronautical fixed radio station services are not required to respond to Items 30–34.	autio	cal e	n ro	ute (	or		
29. Is the applicant a foreign government or the representative of any foreign government?	0	Yes	. 6	N	0		
30. Is the applicant an alien or the representative of an alien?	0	Yes	· •	N	° C	N/A	4
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	· •	N	о <b>С</b>	N/A	<b>A</b>
32. Is the applicant a corporation of which more than one–fifth of the capital stock is owned of record or voted by	•	Yes		N	· ·	N/A	<u> </u>

O Yes No

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental

aliens or their representatives or by a foreign government or representative thereof or by any corporation organized

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one–fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	● Yes ○	No O N/A
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.		
BASIC QUALIFICATIONS		
35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	<b>O</b> Yes	No
36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	No

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	• Yes	<b>⊚</b> No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	• Yes	No
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	• Yes	<b>⊘</b> No
40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.		

41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti–Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.	Yes	O No
42a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.	O Yes	No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, we coordinated or is in the process of coordinating the space station? United States	hat administr	ation has
43. Description. (Summarize the nature of the application and the services to be provided). (If the complete description box, please go to the end of the form to view it in its entirety.)  See Narrative Statement.	on does not a	ppear in this

43a. Geographic Service Rule Certification By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25.	<b>●</b> A
By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.	O B
By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.	<b>o</b> c

#### **CERTIFICATION**

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

Individual Unincorporated Association Partnership Corporation Governmental Entity Other (please specify)  45. Name of Person Signing Deepak Grover >  46. Title of Person Signing Vice President of Operations	44. Applicant is a (an): (Choose the button next to app	plicable response.)	
Partnership Corporation Governmental Entity Other (please specify)  45. Name of Person Signing Deepak Grover  46. Title of Person Signing Vice President of Operations	Individual		
Corporation Governmental Entity Other (please specify)  45. Name of Person Signing Deepak Grover  46. Title of Person Signing Vice President of Operations	O Unincorporated Association		
Governmental Entity Other (please specify)  45. Name of Person Signing Deepak Grover  46. Title of Person Signing Vice President of Operations	• Partnership		
Governmental Entity Other (please specify)  45. Name of Person Signing Deepak Grover  46. Title of Person Signing Vice President of Operations	Corporation		
Other (please specify)  45. Name of Person Signing Deepak Grover  46. Title of Person Signing Vice President of Operations			
45. Name of Person Signing Deepak Grover  46. Title of Person Signing Vice President of Operations			
Deepak Grover Vice President of Operations	•		
Deepak Grover Vice President of Operations			
Deepak Grover Vice President of Operations			
	45. Name of Person Signing		
>	Deepak Grover	Vice President of Operations	
	>	•	

(U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

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