

S2253 SAT-AMD-20140617-00069 IB2014001206
Intelsat License LLC
Galaxy 11



File # SAT-AMD-20140617-00069 **
Call Sign S2253 Grant Date 10/30/14
(or other identifier)
Term Dates
From 10/30/14 To: 01/30/19
Approved: Stephen J. Duall

** see also
SAT-MOD-20121018-00184
SAT-AMD-20140423-00042

Approved by OMB
3060-0678

Date & Time Filed: Jun 17 2014 2:30:02:693PM
File Number: SAT-AMD-20140617-00069

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD – MAIN FORM	FCC Use Only
FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:
Second Amendment to Pending Application for Modification of Galaxy 11 License (S2253)

1-8. Legal Name of Applicant

Name:	Intelsat License LLC	Phone Number:	202-944-7848
DBA Name:		Fax Number:	202-944-7870
Street:	c/o Intelsat Corporation 3400 International Drive, N.W.	E-Mail:	susan.crandall@intelsat.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20008 -3006
Attention:	Susan H Crandall		

Attachment to Grant
IBFS File No. SAT-MOD-20121018-00184, SAT-AMD-20140429-00042,
SAT-AMD-20140617-00069
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The application of Intelsat License LLC (formerly PanAmSat Licensee Corp.) (Intelsat), IBFS File No. SAT-MOD-20121018-00184, as amended by SAT-AMD-20140429-00042, and SAT-AMD-20140617-00069, to modify the authorization for its Galaxy 11 space station (Call Sign S2253) is GRANTED. Intelsat is authorized to operate Galaxy 11 in the 10.95-11.2 GHz (space-to-Earth), 11.7-12.2 GHz (space-to-Earth), and 13.75-14.5 GHz (Earth-to-space) frequency bands¹ to provide Fixed-Satellite Service from the 55.6° W.L.² orbital location, instead of its currently authorized orbital location of 55.5° W.L.³ Intelsat is also authorized, to conduct Telemetry, Tracking, and Command (TT&C) operations with the Galaxy 11 space station (Call Sign S2253) necessary to maintain the Galaxy 11 space station at the 55.6° W.L. orbital location using the following center frequencies: 14.0005 GHz and 14.4985 GHz (Earth to space), and 11.701 GHz and 11.702 GHz (space to Earth). Furthermore, the license term for Galaxy 11 is extended from April 6, 2015 until January 30, 2019. Operations under this authorization must be in accordance with the technical specifications set forth in Intelsat's application and the Federal Communication Commission rules not waived herein, and are subject to the following conditions:

1. Intelsat must operate the Galaxy 11 space station at the 55.6° W.L. orbital location in compliance with all existing or future coordination agreements.
2. In connection with the provision of service in any particular country, Intelsat is obliged to comply with the applicable laws, regulations, rules, and licensing procedures of that country.
3. While at the 55.6° W.L. orbital location, Intelsat must maintain the Galaxy 11 spacecraft with an east/west longitudinal station-keeping tolerance of +/- 0.05 degrees.

¹ The Galaxy 11 satellite also includes the 3700-4200 MHz and 5925-6425 MHz frequency bands. Because Intelsat is not seeking authority to operate Galaxy 11 in these bands at the 55.6° W.L. orbital location, we do not authorize Galaxy 11's operation at 55.6° W.L. using these bands.

² On January 15, 2013, Intelsat was granted special temporary authority to conduct TT&C operations with Galaxy 11 to move the space station from the 55.5° W.L. orbital location to the 55.6° W.L. orbital location and to operate at that location. IBFS File No. SAT-STA-20130102-00002. This special temporary authority was extended through September 7, 2014. See IBFS File Nos. SAT-STA-20130211-00018, SAT-STA-20130102-00001, SAT-STA-20130829-00109. On September 3, 2014, Intelsat filed a request to extend this special temporary authority for an additional 180 days. IBFS File No. SAT-STA-20140903-00099.

³ Intelsat's application, IBFS File No. SAT-MOD-20121018-00184, sought to modify the authorization for the Galaxy 11 space station to specify operations at 44.8° W.L., instead of at Galaxy 11's currently authorized location of 55.5° W.L. Intelsat's first amendment to this modification application requests interim authority to operate Galaxy 11 at 55.6° W.L. prior to its relocation to 44.8° W.L. and to extend the satellite's license term for approximately four years. IBFS File No. SAT-AMD-20140429-00042. Intelsat's second amendment to the modification application removes Intelsat's request for authority to operate Galaxy 11 at 44.8° W.L., but reaffirms Intelsat's request to operate Galaxy 11 at 55.6° W.L. and to have Galaxy 11's license term extended from April 6, 2015 through January 30, 2019. IBFS File No. SAT-AMD-20140617-00069.

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4. Intelsat's request that the waiver of Sections 25.114(d)(14)(ii) and 25.283(c), 47 U.S.C §§ 25.114(d)(14)(ii) and 25.283(c), previously granted to the Galaxy 11 spacecraft for the 55.5° W.L. orbital location continue to apply at the 55.6° W.L. orbital location, is GRANTED subject to the conditions in that grant.⁴

5. Intelsat's request for waiver of Section 25.114(c)(4)(vi)(A) of the Commission's rules, 47 C.F.R. § 25.114(c)(4)(vi)(A), is GRANTED.⁵ Section 25.114(c)(4)(vi)(A) requires predicted space station antenna gain contour(s) for each transmit and each receive antenna beam. Intelsat's application indicates that with respect to Galaxy 11's TT&C bicone and pipe antenna beams (Exhibits 2R, 2S, 2U and 2V in the Engineering Statement), as well as its ULPC global horn antenna (Exhibits 2X and 2Y in the Engineering Statement), the beam patterns were not prepared in accordance with the parameters specified in Section 25.114(c)(4)(vi)(A) of the Commission's rules because the satellite manufacturer did not provide contours in the required format. We find, however, that Exhibits 2R, 2S, 2U, 2V, 2X and 2Y, together with the descriptive characterization provided on pages 2 and 3 of the Engineering Statement, fulfill the requirements of Section 25.114(c)(4)(vi)(A).

6. Intelsat's use of the 10.95-11.2 GHz frequency band is subject to Footnote US211 to the Table of Frequency Allocations, 47 C.F.R. § 2.106, US211, which urges applicants for airborne or space station assignments to take all practicable steps to protect radio astronomy observations in the adjacent bands from harmful interference, consistent with footnote US74.

7. Intelsat's use of the 10.95-11.20 GHz frequency band is limited to international operations in accordance with footnote NG52 to the United States Table of Frequency Allocations, 47 C.F.R. § 2.106, NG52.

8. In the 13.75-14.0 GHz band (Earth-to-space), receiving space stations in the Fixed-Satellite Service shall not claim protection from radiolocation transmitting stations operating in accordance with the United States Table of Frequency Allocations.

9. Pursuant to footnote US337 of the United States Table of Frequency Allocations, 47 C.F.R. § 2.106, US337, any earth station in the United States and its possessions communicating with the Galaxy 11 space station in the 13.75-14.0 GHz band (Earth-to-space) is required to coordinate through National Telecommunications and Information Administration's (NTIA's) Interdepartment Radio Advisory Committee's (IRAC's) Frequency Assignment Subcommittee (FAS) to minimize interference to the National Aeronautics and Space Administration Tracking and Data Relay Satellite System, including manned space flight.

⁴ See IBFS File No. SAT-MOD-20101102-00229.

⁵ Intelsat's application requests a waiver of Section 25.114(d)(3) of the Commission's rules, 47 C.F.R. § 25.114(d)(3). We note that the portion of this rule that pertains to geostationary orbit FSS operations has been moved to Section 25.114(c)(4)(vi)(A) of the Commission's rules, 47 C.F.R. § 25.114(c)(4)(vi)(A). See *Comprehensive Review of Licensing and Operating Rules for Satellite Services*, IB Docket No. 12-267, Report and Order, 28 FCC Rcd 12403 (2013).

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10. Operations of any earth station in the United States and its possessions communicating with the Galaxy 11 space station in the 13.75-14.0 GHz band (Earth-to-space) must comply with footnote US356 to United States Table of Frequency Allocations, 47 C.F.R. § 2.106, US356, which specifies a mandatory minimum antenna diameter of 4.5 meters and a non-mandatory minimum and maximum equivalent isotropically radiated powers (EIRP). Operations of any earth station located outside the United States and its possessions communicating with the Galaxy 11 space station in the 13.75-14.0 GHz band (Earth-to-space) must be consistent with footnote 5.502 to the ITU Radio Regulations, which allows a minimum antenna diameter of 1.2 meters for earth stations of a geostationary satellite orbit network and specifies mandatory power limits.

11. Operations of any earth station in the United States and its possessions communicating with the Galaxy 11 space station in the 13.77-13.78 GHz band (Earth-to-space) must comply with footnote US357 to United States Table of Frequency Allocations, 47 C.F.R. § 2.106, US357, which specifies that a required maximum EIRP density of emissions not exceed 71 dBW in any 6 MHz band for communications with a space station in geostationary-satellite orbit.⁶ Operations of any earth station located outside the United States and its possessions communicating with the Galaxy 11 space station in the 13.77-13.78 GHz band (Earth-to-space) must comply with footnote 5.503 to the ITU Radio Regulations, which specifies a required maximum EIRP density of emissions (limit is dependent on antenna diameter) for communications with a space station in geostationary-satellite orbit.

12. Operators of earth stations accessing the Galaxy 11 space station in the 13.75-14.00 GHz band are encouraged to cooperate voluntarily with the National Aeronautics and Space Administration (NASA) in order to facilitate continued operation of NASA's Tropical Rainfall Measuring Mission (TRMM) satellite.⁷

13. Pursuant to footnote US342 of the United States Table of Frequency Allocations, 47 C.F.R. § 2.106, services operating in the 14.47-14.50 GHz band shall take all practicable steps to protect the radio astronomy service from harmful interference.

14. Intelsat must comply with the power levels specified in Section 25.212 of the Commission's rules, unless it coordinates any operations using power levels exceeding the levels in Section 25.212 with all potentially affected adjacent satellites within 6 degrees orbital

⁶ Footnote US357 places a restriction on FSS earth station operations in order to protect government operations in the band, including manned space flight. 47 C.F.R. § 2.106, US357.

⁷ NASA's TRMM satellite system radar in the 13.793-13.805 GHz band remains operational and is a highly valuable and visible United States asset with a broad range of international users. Accordingly, NTIA has requested cooperation from the Commission and non-Federal Government entities in providing assistance in reducing interference with the TRMM radar. Specifically, NTIA requests that FSS earth stations in the 13.793 - 13.805 GHz band located south of 39° N. and east of 110° W. operate with emission levels below -150 dBW/600 kHz at the TRMM space station receiver. Letter from Frederick R. Wentland, Acting Associate Administrator, Office of Spectrum Management, NTIA, to Don Abelson, Chief, International Bureau, FCC (February 28, 2002). Considering the secondary nature of the TRMM operation, NTIA's request is not a condition of this authorization. The Commission, however, urges all operators of earth stations accessing the Galaxy 11 space station in the 13.75-14.0 GHz band to cooperate voluntarily with NASA in order to facilitate continued operation of the TRMM satellite.

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separation of the 55.6° W.L. orbital location. Intelsat must inform the Commission of the power levels it has coordinated. In addition, Intelsat must inform all affected earth station operators that Section 25.220 of the Commission's rules applies to operations that exceed the power levels specified in Section 25.212. In no event shall the uplink input power spectral density level of Galaxy 11's digital carriers exceed -45 dBW/Hz into the antenna and the downlink EIRP density of such carriers exceed -21 dBW/Hz for the Ku-band.⁸

15. Intelsat's operation of Galaxy 11 at the 55.6° W.L. orbital location in the 10.95-11.2 GHz (space-to-Earth), 11.7-12.2 GHz (space-to-Earth), and 13.75-14.5 GHz (Earth-to-space) frequency bands is subject to the following conditions:


(a) Intelsat shall remain a signatory to the Public Services Agreement between Intelsat and the International Telecommunications Satellite Organization (ITSO) that was approved by the ITSO Twenty-fifth Assembly of Parties, as amended.

(b) No entity shall be considered a successor-in-interest to Intelsat under the ITSO Agreement for licensing purposes unless it has undertaken to perform the obligations of the Public Services Agreement approved by the Twenty-fifth Assembly of Parties, as amended.

16. Intelsat is afforded thirty 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.

17. This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective immediately. Petitions for reconsideration under Section 1.106 or applications for review under Section 1.115 of the Commission's rules, 47 C.F.R. §§ 1.106, 1.115, may be filed within 30 days of the date of the public notice indicating that this action was taken.

SAT- MOD- 2012 1018 - 00184
SAT- AMD - 2014 0429 - 00042
File # SAT-AMD-20140617-00069

 GRANTED* International Bureau *with conditions	Call Sign <u>S2253</u> Grant Date <u>10/30/14</u>
	(or other identifier)
	Term Dates
From <u>10/30/14</u> To: <u>01/30/15</u>	
Approved: <u>Stephen J. Duall</u> Stephen J. Duall Chief, Satellite Policy Branch	

⁸ New Skies Satellites B.V., filed informal comments asking the Commission to include in any grant of the Galaxy 11 Modification a condition requiring Intelsat to comply with the power levels specified in Section 25.212 of the Commission's rules unless higher power levels have been coordinated with potentially affected systems. See Informal Comments of New Skies Satellites B.V., filed Jan. 13, 2014 by Daniel C.H. Mah, Regulatory Counsel for New Skies Satellites B.V. This condition is included in ¶14 of this grant.

9-16. Name of Contact Representative

Name:	Jennifer Hindin	Phone Number:	202-719-4975
Company:	Wiley Rein LLP	Fax Number:	202-719-7049
Street:	1776 K Street, NW	E-Mail:	jhindin@wileyrein.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20006-
Attention:	Jennifer Hindin	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

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide or use the following type(s) of service(s): Select all that apply:	
<input checked="" type="checkbox"/> a. Fixed Satellite <input type="checkbox"/> b. Mobile Satellite <input type="checkbox"/> c. Radiodetermination Satellite <input type="checkbox"/> d. Earth Exploration Satellite <input type="checkbox"/> e. Direct to Home Fixed Satellite <input type="checkbox"/> f. Digital Audio Radio Service <input type="checkbox"/> g. Other (please specify)	
21. STATUS: Choose the button next to the applicable status. Choose only one. <input type="radio"/> Common Carrier <input checked="" type="radio"/> Non-Common Carrier	22. If earth station applicant, check all that apply. <input type="checkbox"/> Using U.S. licensed satellites <input type="checkbox"/> 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 facilities: <input type="radio"/> Connected to a Public Switched Network <input type="radio"/> Not connected to a Public Switched Network <input checked="" type="radio"/> N/A	
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all applicable frequency band(s). <input checked="" type="checkbox"/> a. C-Band (4/6 GHz) <input checked="" type="checkbox"/> b. Ku-Band (12/14 GHz) <input type="checkbox"/> c. Other (Please specify upper and lower frequencies in MHz.) Frequency Lower: Frequency Upper: (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 Station
- c. 12/14 GHz VSAT Network
- d. Mobile Earth Station
- e. Geostationary Space Station
- f. Non-Geostationary Space Station
- g. Other (please specify)

26. TYPE OF EARTH STATION FACILITY:

- 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 & countries)
- j -- authorization to change Points of Communication (satellites & countries)
- k -- authorization for facilities for which environmental assessment and radiation hazard reporting is required
- l -- authorization to change orbit location
- m -- authorization to perform fleet management
- n -- authorization to extend milestones
- o -- Other (Please specify)

ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental 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. Yes No

ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30–34.

29. Is the applicant a foreign government or the representative of any foreign government?	<input type="radio"/> Yes <input checked="" type="radio"/> No
30. Is the applicant an alien or the representative of an alien?	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A
32. Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A

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 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? Yes No
If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.

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 explanation of circumstances. 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 explanation of circumstances.

Yes 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 exhibit, an explanation of the circumstances.

Yes 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 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.

Yes No

42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has coordinated or is in the process of coordinating the space station?

43. Description. (Summarize the nature of the application and the services to be provided). (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

Intelsat License LLC further amends the pending application for the Galaxy 11 satellite (call sign S2253). By this amendment, Intelsat removes its request for authority to operate the satellite at 44.8

Narrative

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.

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.

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.

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.

44. Applicant is a (an): (Choose the button next to applicable response.)

- Individual
- Unincorporated Association
- Partnership
- Corporation
- Governmental Entity
- Other (please specify)

45. Name of Person Signing
Susan H. Crandall

46. Title of Person Signing
Assoc. Gen. Counsel, Intelsat Corporation

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WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT
(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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