S3021 SAT-RPL-20170927-00136 **ES 172 LLC** 

**EUTELSAT 172B** 

IB2017002733

FILE# SAT-RPL-20170927-00136 From 12/07/17 International Bureau Approved:

Call Sign S302 Grant Date 12/07/17

(or other identifier)

Term Dates

\* GRANT IN PART / DEFER IN PART + +

Approved by OMB 3060-0678

Date & Time Filed: Sep 27 2017 9:13:32:130PM

File Number: SAT-RPL-20170927-00136

Callsign/Satellite ID: S3021

\* with conditions

Chief, Satellite Blicy Branch

To: 12/07/32

APPLICATION FOR SATELLITE SPACE STATION AUTHORIZATIONS FCC 312 MAIN FORM FOR OFFICIAL USE ONLY

FCC Use Only

#### APPLICANT INFORMATION

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

EUTELSAT 172B Replacement Satellite Application

1-8. Legal Name of Applicant

Name:

**ES 172 LLC** 

Phone Number:

202−383−8043

DBA Name:

Fax Number:

202-383-8118

Street:

801 Pennsylvania Ave., NW

E-Mail:

cnalda@lmiadvisors.com

Fifth Floor

City:

Washington

State:

DC

Country:

USA

Zipcode:

20004

Attention:

Jeffrey P Cunard

#### ATTACHMENT TO GRANT

# **ES 172 LLC**

IBFS File No. SAT-RPL-20170927-00136

IBFS File No(s):	SAT-RPL-20170927-00136	GRANT IN PART – DEFER	
Licensee/Grantee:	ES 172 LLC (Eutelsat)	IN PART	
Call Sign:	S3021	With Conditions	
Satellite Name:	EUTELSAT 172B		
Orbital Location:	172° E.L.	COMMUNICATION COMUNICATION COMMUNICATION COM	
(required station-	$(\pm 0.10 \text{ degrees})$		
keeping tolerance)		TO A WAS	
Administration:	United States of America	*COMMISSION*	
Nature of Service:	Fixed-Satellite Service (FSS)		
		International Bureau Satellite Division	
Scope of Grant:	Authority for EUTELSAT 172B to provide FSS at the 17	2° E.L. orbital location and to	
	conduct telemetry, tracking, and command (TT&C) operations in connection with		
	maintaining EUTELSAT 172B at the 172° E.L. orbital location.		
	Deferral of request for authority to provide "incidental" FSS in the 12.7-12.75 GHz band in		
	the space-to-Earth direction to earth stations inside the United States and its Territories and		
	Possessions. <sup>1</sup>		
Previous Grant(s):			
	172B at the 172° E.L. orbital location using the 3700-4200 MHz (space-to-Earth), 10.95-		
	11.20 GHz (space-to-Earth), 11.45-11.7 GHz (space-to-Earth), 12.2-12.75 GHz (space-to-		
	Earth), and 5925-6425 MHz (Earth-to-space) and 14.0-14.5 GHz (Earth-to-space)		
	frequency bands; and (2) conduct TT&C operations in connection with maintaining		
	EUTELSAT 172B at the 172° E.L. orbital location using the following center frequencies:		
	11200.6 MHz and 12250.1 MHz (space-to-Earth), and 14		
	File No. SAT-STA-20171104-00149 (granted Nov. 16, 20		
Service Area(s):	North-East Asia, North Pacific, Oahu GW (Gateway), Pac	cific Ocean Region, South-East	
	Pacific, South Pacific and South-West Pacific		
Frequencies:	3700-4200 MHz (space-to-Earth)		
	10.95-11.20 GHz (space-to-Earth)		
	11.45-11.7 GHz (space-to-Earth)		
	12.2-12.70 GHz (space-to-Earth)		
	12.7-12.75 GHz (space-to-Earth) - outside United States and its Territories and		
	Possessions, see scope of grant above		
	5925-6425 MHz (Earth-to-space)		
	14.0-14.5 GHz (Earth-to-space)		
	TT&C:		
	Telemetry: 11200.6 MHz and 12250.1 MHz		
	Command: 14499.8 MHz		
Unloss othomyise spe	<u> </u>	4 141 41 - 1 1 1 4 1 1	

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

1. Eutelsat must prepare the necessary information, as may be required, for submission to the International Telecommunication Union (ITU) to initiate and complete the advance publication, coordination, due

<sup>&</sup>lt;sup>1</sup> Eutelsat seeks a waiver of section 2.106 of the Commission's rules in connection with this request, since there is no allocation in ITU Region 2 or the U.S. Table of Frequency Allocations for FSS in the space-to-Earth direction in 12.7-12.75 GHz.

#### ATTACHMENT TO GRANT

#### **ES 172 LLC**

IBFS File No. SAT-RPL-20170927-00136

diligence, and notification process of this space station, in accordance with the ITU Radio Regulations. Eutelsat will be held responsible for all cost-recovery fees associated with ITU filings. No protection from interference caused by radio stations authorized by other administrations is guaranteed unless coordination and notification procedures are timely completed or, with respect to individual administrations, coordination agreements are successfully completed. Any radio station authorization for which coordination has not been completed may be subject to additional terms and conditions as required to effect coordination of the frequency assignments of other administrations. See 47 CFR § 25.111(b).

- 2. In connection with the provision of service in any particular country, Eutelsat is obliged to comply with the applicable laws, regulations, rules, and licensing procedures of that country.
- 3. Eutelsat's request for a waiver of 47 CFR § 2.106 of the Commission's rules to allow the use of the 12.2-12.7 GHz frequency on an unprotected, non-interference basis IS GRANTED. One of the operating conditions required by the Commission for the operation of EUTELSAT 172A was that Eutelsat may not provide downlink services into the United States and its possessions if the 12.2-12.75 GHz frequency band.<sup>2</sup> Eutelsat states that some of the beams on EUTELSAT 172B have "incidental coverage" of U.S. territory and possessions. Eutelsat also states that earth stations receive downlink transmissions in the 12.2-12.75 GHz frequency band by using direction antennas and that there are no U.S. broadcasting satellite service (BSS) satellites transmitting from orbital locations within 50 degrees of the 172° E.L. orbital location; thus, according to Eutelsat, there is no potential for interference between FSS and BSS downlink signals. Eutelsat also states that its operations have incidental coverage of Region I and thus can operate on a non-interference basis with any BSS downlinks. Additionally, although the Commission has authorized OneWeb's non-geostationary satellite orbit FSS system to operate in the 12.2-12.7 GHz band, Eutelsat states that there are currently NGSO FSS systems in this band and that EUTELSAT 172B downlink operations, like the OneWeb system, "comply with PFD limits in the 12.2-12.7 GHz [band] and are consistent with No. 5.492 of the ITUS Radio Regulations."
- 4. Eutelsat's request for a waiver of section 25.210(j) of the Commission's rules, 47 CFR § 25.210(j), to allow EUTELSAT 172B operate with a station-keeping tolerance of ± .10° IS GRANTED. Section 25.210(j) states that space stations "must be maintained within 0.05 degrees of their assigned orbital longitude in the east/west direction, unless specifically authorized by the Commission to operate with a different longitudinal tolerance." Eutelsat states that EUTELSAT 172B is designed to operate with a station-keeping tolerance of ± .10°, and will only overlap in station-keeping with EUTELSAT 172A. According to Eutelsat, the larger station-keeping volume will allow Eutelsat more flexibility to use EUTELSAT 172B's electric propulsion for station-keeping. This waiver and the operations it permits shall terminate in the event that a satellite is launched into a location such that its station-keeping volume would overlap the EUTELSAT 172B satellite's ± .10° degree station-keeping volume, but would not overlap EUTELSAT 172B's ± 0.05° station-keeping volume, unless Eutelsat has successfully coordinated its physical operations with those of the other spacecraft. This waiver is limited to this spacecraft, does not extend any other spacecraft, and it is limited to operations at the 172° E.L. orbital location.
- 5. Eutelsat IS GRANTED a waiver of section 25.113(g), 47 CFR § 25.113(g), which requires that a "launch authorization and station license (*i.e.*, operating authority) must be applied for and granted before a space station may be launched and operated in orbit." Eutelsat did not seek replacement authority for EUTELSAT 172A prior to launching EUTELSAT 172B in 2017. However, the operation of EUTELSAT 172B in the period after the satellite's launch have not resulted, and based on the conditions adopted herein, will not result in any adverse effects on U.S. interests. Therefore, the prior approval requirements of section 25.113(g) would not be subverted by, and is not an impediment to, granting this special temporary authority.
- 6. Pursuant to footnote US211 of the United States Table of Frequency Allocations, 47 CFR § 2.106,

<sup>&</sup>lt;sup>2</sup> See IBFS File No. SAT-LOA-20031218-00358.

#### ATTACHMENT TO GRANT

# ES 172 LLC

IBFS File No. SAT-RPL-20170927-00136

services operating in the 10.7-11.7 GHz band shall take all practicable steps to protect the radio astronomy service from harmful interference.

- 7. Pursuant to footnote US342 of the United States Table of Frequency Allocations, 47 CFR § 2.106, services operating in the 14.47-14.5 GHz band shall take all practicable steps to protect the radio astronomy service from harmful interference.
- 8. The license term is 15 years starting from the release of this grant.<sup>3</sup>

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 C.F.R. § 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 7, 2017

Date:
Term Dates From: December 7, 2017 To: December 7, 2032

Approved:

Stephen J. Duall

Chief, Satellite Policy Branch

<sup>&</sup>lt;sup>3</sup> EUTELSAT 172B is already operational at the 172° E.L. orbital location under grant of special temporary authority. IBFS File No. SAT-STA-20171104-00149 (granted Nov. 16, 2017).

9–16. Name of Contact Representative

Name:

Carlos M Nalda

Phone Number:

571-332-5626

Company:

LMI Advisors

Fax Number:

202-697-5037

Street:

2550 M Street, NW

E-Mail:

cnalda@lmiadvisors.com

Suite 345

City:

Washington

State:

DC

Country:

USA

Zipcode:

20037

Attention:

Relationship:

Other

### **CLASSIFICATION OF FILING**

17. Choose the buttonnext to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.

a.

(N/A) a1. Earth Station

a2. Space Station

b.

b1. Application for License of New Station

(N/A) b2. Application for Registration of New Domestic Receive-Only Station

(N/A) b3. Amendment to a Pending Application

(N/A) b4. Modification of License or Registration

(N/A) b5. Assignment of License or Registration

(N/A) b6. Transfer of Control of License or Registration

(N/A) b7. Notification of Minor Modification

(N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite

6 b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States

**७** b10. Replacement Satellite Application − no new frequency bands

• b11. Replacement Satellite Application – new frequency bands (Not eligible for streamlined processing)

o b12. Petition for Declaratory Ruling to be Added to the Permitted List

(N/A) b13. Other (Please specify)

17c. Is a fee submitted with this application?		
If Yes, complete and attach FCC Form 159.		
If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114		
O Governmental Entity Noncommercial educational licensee		
Other(please explain):		
17c. Fee Classification BNY – Space Station (Geostationary)		
18. If this filing is in reference to an existing station, enter:		
(a) Call sign of station:		
Not Applicable		
19. If this filing is an amendment to a pending application enter:		
a) Date pending application was filed: (b) File number of pending application:		
Not Applicable	Not Applicable	

# TYPE OF SERVICE

e or use the following type(s) of service(s): Select all that apply:		
d. Earth Exploration Satellite		
e. Direct to Home Fixed Satellite		
f. Digital Audio Radio Service		
22. If earth station applicant, check all that apply.		
Not Applicable		
service, see instructions regarding Sec. 214 filings. Choose one.Are these		
to a Public Switched Network    N/A		
applicable frequency band(s).		
c.Other (Please specify upper and lower frequencies in MHz.)		
tional frequencies in an attachment)		

### TYPE OF STATION

THE OF STATION
25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.
(N/A) a. Fixed Earth Station
(N/A) b. Temporary—Fixed Earth Station
(N/A) c. 12/14 GHz VSAT Network (N/A) d. Mobile Earth Station
e. Geostationary Space Station.
[*
of. Non-Geostationary Space Station
og. Other (please specify)
26. TYPE OF EARTH STATION FACILITY: Not Applicable
PURPOSE OF MODIFICATION
27. The purpose of this proposed modification is to: (Place an "X" in the box(es) next to all that  Not Applicable apply.)
ENVIRONMENTAL POLICY
28. Would a Commission grant of any proposal in this application or amendment have a significant environmental Yes No
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, 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?	<b>O</b> Yes	<b>⊚</b> No
30. Is the applicant an alien or the representative of an alien?	<b>O</b> Yes	o No o N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	<b>O</b> Yes	● No ● 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?	<b>⊚</b> Yes	O No O 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?	<b>⊚</b> Yes	O 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.	Yes  No Narrative
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.	O Yes O No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attemptiing 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	O Yes O 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.	O Yes O 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.	0	Yes	0	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.	0	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.)

Replacement satellite application for ES 172 LLC to operate the replacement C-band and Ku-band payloads of the EUTELSAT 172B satellite at 172˚ E.L.

EngineeringStatement

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.

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.

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.

A

 $\mathbf{O}$  B

O 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	e button next to applicable	response.)
O Individual O Unincorporated Association O Partnership		
<ul><li>Corporation</li><li>Governmental Entity</li><li>Other (please specify) Limite</li></ul>	d Liability Company	
45. Name of Person Signing Jeffrey P. Cunard		46. Title of Person Signing Counsel to ES 172 LLC
47. Please supply any need attachment	S.	
1:	2:	3:
(U.S. Code, Title	18, Section 1001), AND/	S FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT OR REVOCATION OF ANY STATION AUTHORIZATION .ND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

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