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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:
Modification of ESAA Blanket License (Call Sign E100089)

1-8. Legal Name of Applicant			
Name:	Panasonic Avionics Corporation	Phone Number:	949-672-2364
DBA Name:		Fax Number:	
Street:	26200 Enterprise Way	E-Mail:	mark.defazio@panasonic.aero
City:	Lake Forest	State:	CA
Country:	USA	Zipcode:	92630 -
Attention:	Mr. Mark DeFazio		

9-16. Name of Contact Representative

Name:	Carlos Nalda	Phone Number:	5713325626
Company:	LMI Advisors	Fax Number:	
Street:	2550 M Street NW Suite 345	E-Mail:	cnalda@lmiadvisors.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20037-
Attention:	Mr. Carlos Nalda	Relationship:	Other

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

<p>17c. Is a fee submitted with this application?</p> <p><input checked="" type="radio"/> If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).</p> <p><input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee</p> <p><input type="radio"/> Other(please explain):</p>	
<p>17d.</p> <p>Fee Classification CGB – Mobile Satellite Earth Stations</p>	
<p>18. If this filing is in reference to an existing station, enter:</p> <p>(a) Call sign of station: E100089</p>	<p>19. If this filing is an amendment to a pending application enter both fields, if this filing is a modification please enter only the file number:</p> <p>(a) Date pending application was filed:</p> <p>(b) File number: SESMFS2017031200255</p>

TYPE OF SERVICE

<p>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:</p> <p><input type="checkbox"/> a. Fixed Satellite</p> <p><input type="checkbox"/> b. Mobile Satellite</p> <p><input type="checkbox"/> c. Radiodetermination Satellite</p> <p><input type="checkbox"/> d. Earth Exploration Satellite</p> <p><input type="checkbox"/> e. Direct to Home Fixed Satellite</p> <p><input type="checkbox"/> f. Digital Audio Radio Service</p> <p><input checked="" type="checkbox"/> g. Other (please specify) ESAA</p>	
<p>21. STATUS: Choose the button next to the applicable status. Choose only one.</p> <p><input type="radio"/> Common Carrier <input checked="" type="radio"/> Non-Common Carrier</p>	<p>22. If earth station applicant, check all that apply.</p> <p><input checked="" type="checkbox"/> Using U.S. licensed satellites</p> <p><input checked="" type="checkbox"/> Using Non-U.S. licensed satellites</p>
<p>23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:</p> <p><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</p>	
<p>24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all applicable frequency band(s).</p> <p><input type="checkbox"/> a. C-Band (4/6 GHz) <input checked="" type="checkbox"/> b. Ku-Band (12/14 GHz)</p> <p><input type="checkbox"/> c. Other (Please specify upper and lower frequencies in MHz.)</p> <p>Frequency Lower: Frequency Upper: (Please specify additional frequencies in an attachment)</p>	

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) ESV

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? Yes No

30. Is the applicant an alien or the representative of an alien? Yes No N/A

31. Is the applicant a corporation organized under the laws of any foreign government? 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? Yes No 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.

Narrative

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

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? France

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.)

ESAA License Modification to Add Points of Communication and Increase Power Levels.

Technical Appendix

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 Mark DeFazio	46. Title of Person Signing Sr. Manager
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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).

SATELLITE EARTH STATION AUTHORIZATIONS
 FCC Form 312 – Schedule B:(Technical and Operational Description)
 FOR OFFICIAL USE ONLY

Location of Earth Station Site

E1. Site Identifier:	PPA	E5. Call Sign:	E100089
E2. Contact Name	MCC	E6. Phone Number:	1-425-415-9800
E3. Street:	26200 Enterprise Way	E7. City:	Lake Forest
E4. State	CA	E8. County:	Orange
E10. Area of Operation:	U.S. and international airspace		
E11. Latitude:	0 °0 '0.0 "		
E12. Longitude:	0 °0 '0.0 "		
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input type="radio"/> NAD-83	<input checked="" type="radio"/> N/A
E14. Site Elevation (AMSL):	0.0 meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.

Yes No N/A

E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes <input type="radio"/> No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
<p>E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation?</p> <p>FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.</p>	<input type="radio"/> Yes <input checked="" type="radio"/> No

POINTS OF COMMUNICATION

Satellite Name: OTHER OTHER If you selected OTHER, please enter the following:	
E21. Common Name: EKSPRESS-AM6	E22. ITU Name: EXPRESS-5B
E23. Orbit Location: 53 E.L.	E24. Country: Russia

Satellite Name: OTHER OTHER If you selected OTHER, please enter the following:
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E21. Common Name: EUTELSAT 172B	E22. ITU Name:
E23. Orbit Location: 172 E.L.	E24. Country: USA

Satellite Name: OTHER OTHER If you selected OTHER, please enter the following:	
E21. Common Name: EUTELSAT 172B	E22. ITU Name: F-SAT-E-30B-172E
E23. Orbit Location: 172 E.L.	E24. Country: France

Satellite Name: INTELSAT 21 (S2863) INTELSAT 21 58.0 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: INTELSAT 21 (S2863) INTELSAT 21 58.0 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: OTHER OTHER If you selected OTHER, please enter the following:	
E21. Common Name: EUTELSAT 172B	E22. ITU Name: F-SAT-E-30B-172E
E23. Orbit Location: 172 E.L.	E24. Country: France

Satellite Name: OTHER OTHER If you selected OTHER, please enter the following:	
E21. Common Name: EKSPRESS-AM5	E22. ITU Name: EXPRESS-10B
E23. Orbit Location: 140 E.L.	E24. Country: Russia

Satellite Name: SES-15 (S2951) GIBSAT-129W-B 129.15 W.L. If you selected OTHER, please enter the following:	
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E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: OTHER OTHER If you selected OTHER, please enter the following:	
E21. Common Name: EUTELSAT 172B	E22. ITU Name:
E23. Orbit Location: 172 E.L.	E24. Country: USA

Satellite Name: SES-15 (S2951) GIBSAT-129W-B 129.15 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier: PPA	
E26. Common Name:	E27. Country: USA

E25. Site Identifier: PPA	
E26. Common Name:	E27. Country: USA

E25. Site Identifier: PPA	
E26. Common Name:	E27. Country: USA

E25. Site Identifier: PPA	
E26. Common Name:	E27. Country: USA

E25. Site Identifier: PPA	
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E26. Common Name:	E27. Country: USA
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E25. Site Identifier: PPA	
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E26. Common Name:	E27. Country: USA
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E25. Site Identifier: PPA	
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E26. Common Name:	E27. Country: USA
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E25. Site Identifier: PPA	
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E26. Common Name:	E27. Country: USA
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E25. Site Identifier: PPA	
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E26. Common Name:	E27. Country: USA
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E25. Site Identifier: PPA	
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E26. Common Name:	E27. Country: USA
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ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size<meters>	E41/42. Antenna Gain Transmint and/or Recieve (___dBi at ___GHz)	
PPA	PPA	2000	Panasonic	AURA LE	0.89	37.0 dBi at 14.250	

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at antenna flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for al carriers(dBW)
PPA	0.0/0.0	0.0	0.0	0.0	10.0	0.0	48.0

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V, L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
PPA	10700 12200	R	Horizontal and Vertical	139MG7D	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

QPSK, 16APSK

PPA	10700 12200	R	Horizontal and Vertical	1M05G7D	0.0	0.0
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E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

QPSK, 16APSK

PPA	10700 12750	R	Horizontal	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	10950 11200	R	Horizontal and Vertical	139MG7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	10950 11200	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

PPA	10950 11200	R	Horizontal and Vertical	54M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	10950 11200	R	Horizontal and Vertical	72M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	10950 11200	R	Horizontal and Vertical	97M2G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

PPA	10950 11700	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	10950 11700	R	Horizontal and Vertical	72M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	10950 12200	R	Horizontal and Vertical	112MG7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

PPA	10950 12200	R	Horizontal and Vertical	125MG7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	10950 12200	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	10950 12200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

PPA	11200 11450	R	Horizontal and Vertical	139MG7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	11200 11450	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	11200 11450	R	Horizontal and Vertical	54M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

PPA	11450 11700	R	Horizontal and Vertical	139MG7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	11450 11700	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	11450 11700	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

PPA	11450 11700	R	Horizontal and Vertical	54M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	11450 12200	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	11450 12200	R	Horizontal and Vertical	27M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

PPA	11450 12200	R	Horizontal and Vertical	36M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	11450 12200	R	Horizontal and Vertical	97M2G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	11450 12750	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

PPA	11450 12750	R	Horizontal and Vertical	72M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	11700 12200	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	12200 12750	R	Horizontal and Vertical	139MG7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

PPA	12200 12750	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	12200 12750	R	Horizontal and Vertical	36M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	12200 12750	R	Horizontal and Vertical	54M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

PPA	12250 12750	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	12250 12750	R	Horizontal and Vertical	72M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	12500 12600	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

PPA	12500 12600	R	Horizontal and Vertical	97M2G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	12500 12750	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	12500 12750	R	Horizontal and Vertical	54M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

PPA	12500 12750	R	Horizontal and Vertical	72M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
PPA	14000 14500	T	Horizontal and Vertical	32K0G7D	44.37	35.56
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
PSK						
PPA	14000 14500	T	Horizontal and Vertical	21M0G7D	48.0	11.01
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK						

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
PPA	Geostationary	14000 14500	15.0/15.0	0.0	5.0	0.0	5.0	2.55
	Geostationary	14000 14500	37.5/37.5	0.0	5.0	0.0	5.0	3.23
	Geostationary	14000 14500	63.0/63.0	0.0	5.0	0.0	5.0	5.97
	Geostationary	14000 14500	70.5/70.5	0.0	5.0	0.0	5.0	3.9
	Geostationary	14000 14500	76.5/76.5	0.0	5.0	0.0	5.0	6.26
	Geostationary	14000 14500	85.0/85.0	0.0	5.0	0.0	5.0	7.34
	Geostationary	14000 14500	90.0/90.0	0.0	5.0	0.0	5.0	6.89
	Geostationary	14000 14500	107.3/107.3	0.0	5.0	0.0	5.0	13.31
	Geostationary	14000 14500	134.0/134.0	0.0	5.0	0.0	5.0	3.89
	Geostationary	14000 14500	144.0/144.0	0.0	5.0	0.0	5.0	6.42
	Geostationary	10700 12200	129.15/129.15	0.0	5.0	360.0	5.0	0.0

	Geostationary	10700 12750	76.5/76.5	0.0	5.0	360.0	5.0	0.0
	Geostationary	10700 12750	134.0/134.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	10950 11200	53.0/53.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	10950 11200	60.0/60.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	10950 11200	90.0/90.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	10950 11200	140.0/140.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	10950 11200	172.0/172.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	10950 11700	70.5/70.5	0.0	5.0	360.0	5.0	0.0
	Geostationary	10950 12200	15.0/15.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	10950 12200	50.0/50.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	11200 11450	172.0/172.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	11450 11700	53.0/53.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	11450 11700	140.0/140.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	11450 11700	172.0/172.0	0.0	5.0	360.0	5.0	0.0

	Geostationary	11450 12200	37.5/37.5	0.0	5.0	360.0	5.0	0.0
	Geostationary	11450 12200	58.0/58.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	11450 12200	60.0/60.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	11450 12200	63.0/63.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	11450 12750	90.0/90.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	11700 12200	107.3/107.3	0.0	5.0	360.0	5.0	0.0
	Geostationary	11700 12200	114.9/114.9	0.0	5.0	360.0	5.0	0.0
	Geostationary	12200 12750	144.0/144.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	12200 12750	172.0/172.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	12250 12750	45.0/45.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	12250 12750	85.0/85.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	12500 12600	60.0/60.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	12500 12750	53.0/53.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	12500 12750	70.5/70.5	0.0	5.0	360.0	5.0	0.0

	Geostationary	12500 12750	140.0/140.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	14000 14500	45.0/45.0	0.0	5.0	360.0	5.0	7.44
	Geostationary	14000 14500	50.0/50.0	0.0	5.0	360.0	5.0	5.0
	Geostationary	14000 14500	53.0/53.0	0.0	5.0	360.0	5.0	1.02
	Geostationary	14000 14500	58.0/58.0	0.0	5.0	360.0	5.0	7.38
	Geostationary	14000 14500	60.0/60.0	0.0	5.0	360.0	5.0	4.89
	Geostationary	14000 14500	114.9/114.9	0.0	5.0	360.0	5.0	1.08
	Geostationary	14000 14500	129.15/129.15	0.0	5.0	360.0	5.0	-5.39
	Geostationary	14000 14500	140.0/140.0	0.0	5.0	360.0	5.0	4.19
	Geostationary	14000 14500	172.0/172.0	0.0	5.0	360.0	5.0	7.97

REMOTE CONTROL POINT LOCATION

<p>E61. Call Sign</p> <p>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.</p>	<p>E66. Phone Number 1-425-415-9800</p>
<p>E62. Street Address 26200 Enterprise Way</p>	

E63. City Lake Forest	E68. County Orange	E67/68. State/Country CA/ USA	E64. Zip Code 92630
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SATELLITE EARTH STATION AUTHORIZATIONS
 FCC Form 312 – Schedule B:(Technical and Operational Description)
 FOR OFFICIAL USE ONLY

Location of Earth Station Site

E1: Site Identifier:	SPA	E5. Call Sign:	E100089
E2: Contact Name	MCC	E6. Phone Number:	1-425-415-9800
E3. Street:	26200 Enterprise Way	E7. City:	Lake Forest
E4. State	CA	E8. County:	Orange
E10. Area of Operation:	U.S. and international airspace		
E11. Latitude:	0 °0 '0.0 "		
E12. Longitude:	0 °0 '0.0 "		
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input type="radio"/> NAD-83	<input checked="" type="radio"/> N/A
E14. Site Elevation (AMSL):	0.0 meters		

<p>E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A</p>
<p>E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A</p>
<p>E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>

<p>E18. Is frequency coordination required? If YES, attach a frequency coordination report as</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>
<p>E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>
<p>E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>

POINTS OF COMMUNICATION

<p>Satellite Name: SES-15 (S2951) GIBSAT-129W-B 129.15 W.L If you selected OTHER, please enter the following:</p>
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E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: OTHER OTHER If you selected OTHER, please enter the following:	
E21. Common Name: EKSPRESS-AM6	E22. ITU Name: EXPRESS-5B
E23. Orbit Location: 53 E.L.	E24. Country: Russia

Satellite Name: OTHER OTHER If you selected OTHER, please enter the following:	
E21. Common Name: EUTELSAT 172B	E22. ITU Name:
E23. Orbit Location: 172 E.L.	E24. Country: USA

Satellite Name: OTHER OTHER If you selected OTHER, please enter the following:	
E21. Common Name: EKSPRESS-AM5	E22. ITU Name: EXPRESS-10B
E23. Orbit Location: 140 E.L.	E24. Country: Russia

Satellite Name: INTELSAT 21 (S2863) INTELSAT 21 58.0 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: OTHER OTHER If you selected OTHER, please enter the following:	
E21. Common Name: EUTELSAT 172B	E22. ITU Name: F-SAT-E-30B-172E
E23. Orbit Location: 172 E.L.	E24. Country: France

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier: SPA	
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E26. Common Name:	E27. Country: USA
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E25. Site Identifier: SPA	
E26. Common Name:	E27. Country: USA

E25. Site Identifier: SPA	
E26. Common Name:	E27. Country: USA

E25. Site Identifier: SPA	
E26. Common Name: EKSPRESS-AM5	E27. Country: USA

E25. Site Identifier: SPA	
E26. Common Name: EKSPRESS-AM6	E27. Country: USA

E25. Site Identifier: SPA	
E26. Common Name: EUTELSAT 172B	E27. Country: USA

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size<meters>	E41/42. Antenna Gain Transmint and/or Recieve (___dBi at ___GHz)	
SPA	SPA	1000	Panasonic	SPA	0.949	35.0 dBi at 14.250	

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at antenna flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for al carriers(dBW)
SPA	0.0/0.0	0.0	0.0	0.0	10.0	0.0	45.0

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V, L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
SPA	10700 12200	R	Horizontal and Vertical	139MG7D	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

QPSK, 16APSK

SPA	10700 12200	R	Horizontal and Vertical	1M05G7D	0.0	0.0
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E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

QPSK, 16APSK

SPA	10700 12750	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
SPA	10950 11200	R	Horizontal and Vertical	139MG7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
SPA	10950 11200	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

SPA	10950 11200	R	Horizontal and Vertical	54M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
SPA	10950 11200	R	Horizontal and Vertical	72M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
SPA	10950 11200	R	Horizontal and Vertical	97M2G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

SPA	10950 11700	R	Horizontal and Vertical	139MG7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
SPA	10950 11700	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
SPA	10950 11700	R	Horizontal and Vertical	72M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

SPA	10950 12200	R	Horizontal and Vertical	112MG7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
SPA	10950 12200	R	Horizontal and Vertical	125MG7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
SPA	10950 12200	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

SPA	10950 12200	R	Horizontal and Vertical	27M0G7W	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
SPA	11200 11450	R	Horizontal and Vertical	139MG7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
SPA	11200 11450	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

SPA	11200 11450	R	Horizontal and Vertical	54M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
SPA	11450 11700	R	Horizontal and Vertical	139MG7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
SPA	11450 11700	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

SPA	11450 11700	R	Horizontal and Vertical	54M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
SPA	11450 11950	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
SPA	11450 11950	R	Horizontal and Vertical	72M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

SPA	11450 12200	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
SPA	11450 12200	R	Horizontal and Vertical	27M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
SPA	11450 12200	R	Horizontal and Vertical	97M2G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

SPA	11700 12200	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
SPA	12200 12750	R	Horizontal and Vertical	139MG7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
SPA	12200 12750	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

SPA	12200 12750	R	Horizontal and Vertical	54M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
SPA	12250 12750	R	Horizontal and Vertical	72M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
SPA	12500 12600	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

SPA	12500 12600	R	Horizontal and Vertical	97M2G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
SPA	12500 12750	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
SPA	12500 12750	R	Horizontal and Vertical	54M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

SPA	12500 12750	R	Horizontal and Vertical	72M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
SPA	14000 14500	T	Horizontal and Vertical	21M0G7D	45.0	8.01
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK						
SPA	14000 14500	T	Horizontal and Vertical	32K0G7D	40.37	31.56
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK						

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
SPA	Geostationary	14000 14500	15.0/15.0	0.0	5.0	0.0	5.0	-1.71
	Geostationary	14000 14500	37.5/37.5	0.0	5.0	0.0	5.0	-1.39
	Geostationary	14000 14500	63.0/63.0	0.0	5.0	0.0	5.0	1.29
	Geostationary	14000 14500	70.5/70.5	0.0	5.0	0.0	5.0	-0.71
	Geostationary	14000 14500	76.5/76.5	0.0	5.0	0.0	5.0	1.83
	Geostationary	14000 14500	85.0/85.0	0.0	5.0	0.0	5.0	2.98
	Geostationary	14000 14500	90.0/90.0	0.0	5.0	0.0	5.0	2.29
	Geostationary	14000 14500	107.3/107.3	0.0	5.0	0.0	5.0	6.46
	Geostationary	14000 14500	134.0/134.0	0.0	5.0	0.0	5.0	-0.71
	Geostationary	14000 14500	144.0/144.0	0.0	5.0	0.0	5.0	2.12
	Geostationary	10700 12200	129.15/129.15	0.0	5.0	360.0	5.0	0.0

	Geostationary	10700 12750	76.5/76.5	0.0	5.0	360.0	5.0	0.0
	Geostationary	10700 12750	134.0/134.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	10950 11200	53.0/53.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	10950 11200	60.0/60.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	10950 11200	90.0/90.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	10950 11200	140.0/140.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	10950 11200	172.0/172.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	10950 11700	70.5/70.5	0.0	5.0	360.0	5.0	0.0
	Geostationary	10950 12200	15.0/15.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	10950 12200	50.0/50.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	11200 11450	172.0/172.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	11450 11700	53.0/53.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	11450 11700	140.0/140.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	11450 11700	172.0/172.0	0.0	5.0	360.0	5.0	0.0

	Geostationary	11450 11950	45.0/45.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	11450 12200	37.5/37.5	0.0	5.0	360.0	5.0	0.0
	Geostationary	11450 12200	58.0/58.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	11450 12200	60.0/60.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	11450 12200	63.0/63.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	11450 12750	90.0/90.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	11700 12200	107.3/107.3	0.0	5.0	360.0	5.0	0.0
	Geostationary	11700 12200	114.9/114.9	0.0	5.0	360.0	5.0	0.0
	Geostationary	12200 12750	144.0/144.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	12200 12750	172.0/172.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	12250 12750	85.0/85.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	12500 12600	60.0/60.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	12500 12750	53.0/53.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	12500 12750	70.5/70.5	0.0	5.0	360.0	5.0	0.0

	Geostationary	12500 12750	140.0/140.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	14000 14500	45.0/45.0	0.0	5.0	360.0	5.0	2.73
	Geostationary	14000 14500	50.0/50.0	0.0	5.0	360.0	5.0	0.29
	Geostationary	14000 14500	53.0/53.0	0.0	5.0	360.0	5.0	0.29
	Geostationary	14000 14500	58.0/58.0	0.0	5.0	360.0	5.0	2.5
	Geostationary	14000 14500	60.0/60.0	0.0	5.0	360.0	5.0	0.29
	Geostationary	14000 14500	114.9/114.9	0.0	5.0	360.0	5.0	-2.71
	Geostationary	14000 14500	129.15/129.15	0.0	5.0	360.0	5.0	-7.95
	Geostationary	14000 14500	129.15/129.15	0.0	5.0	360.0	5.0	-7.95
	Geostationary	14000 14500	140.0/140.0	0.0	5.0	360.0	5.0	0.29
	Geostationary	14000 14500	172.0/172.0	0.0	5.0	360.0	5.0	3.29

REMOTE CONTROL POINT LOCATION

<p>E61. Call Sign</p> <p>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.</p>	<p>E66. Phone Number 1-425-415-9800</p>
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E62. Street Address 26200 Enterprise Way			
E63. City Lake Forest	E68. County Orange	E67/68. State/Country CA/ USA	E64. Zip Code 92630

SATELLITE EARTH STATION AUTHORIZATIONS
 FCC Form 312 – Schedule B:(Technical and Operational Description)
 FOR OFFICIAL USE ONLY

Location of Earth Station Site			
E1: Site Identifier:	TECOM	E5. Call Sign:	E100089
E2: Contact Name	MCC	E6. Phone Number:	1-425-415-9800
E3. Street:	26200 Enterprise Way	E7. City:	Lake Forest
E4. State	CA	E8. County:	Orange
E10. Area of Operation:	U.S. and international airspace		
E11. Latitude:	0 °0 '0.0 "		
E12. Longitude:	0 °0 '0.0 "		
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input type="radio"/> NAD-83	<input checked="" type="radio"/> N/A
E14. Site Elevation (AMSL):	0.0 meters		

<p>E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A</p>
<p>E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A</p>
<p>E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>

<p>E18. Is frequency coordination required? If YES, attach a frequency coordination report as</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>
<p>E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>
<p>E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>

POINTS OF COMMUNICATION

<p>Satellite Name: SES-15 (S2951) GIBSAT-129W-B 129.15 W.L If you selected OTHER, please enter the following:</p>

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: INTELSAT 21 (S2863) INTELSAT 21 58.0 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: EUTELSAT115WB(S2938) EUTELSAT 115 WB 114.9 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: OTHER OTHER If you selected OTHER, please enter the following:	
E21. Common Name: EUTELSAT 172B	E22. ITU Name: F-SAT-E-30B-172E
E23. Orbit Location: 172 E.L.	E24. Country: France

Satellite Name: INTELSAT 21 (S2863) INTELSAT 21 58.0 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: ESTRELA DO SUL 2 ESTRELA DO SUL 2 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: OTHER OTHER If you selected OTHER, please enter the following:	
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E21. Common Name: EUTELSAT 172B	E22. ITU Name:
E23. Orbit Location: 172 E.L.	E24. Country: USA

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier: TECOM	
E26. Common Name:	E27. Country: USA

E25. Site Identifier: TECOM	
E26. Common Name:	E27. Country: USA

E25. Site Identifier: TECOM	
E26. Common Name:	E27. Country: USA

E25. Site Identifier: TECOM	
E26. Common Name:	E27. Country: USA

E25. Site Identifier: TECOM	
E26. Common Name:	E27. Country: USA

E25. Site Identifier: TECOM	
E26. Common Name:	E27. Country: USA

E25. Site Identifier: TECOM	
E26. Common Name: EUTELSAT 172B	E27. Country: USA

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size<meters>	E41/42. Antenna Gain Transmint and/or Recieve (____ dBi at _____ GHz)	
TECOM	TECOM	1000	TECOM	Ku-Stream 1000	0.62	28.8 dBi at 14.2500	

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at antenna flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for al carriers(dBW)
TECOM	0.0/0.0	0.0	0.0	0.0	31.6	0.0	43.8

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V, L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
TECOM	10700 12200	R	Horizontal and Vertical	139MG7D	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

QPSK, 16APSK

TECOM	10700 12200	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
TECOM	10950 11200	R	Horizontal and Vertical	139MG7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
TECOM	10950 11200	R	Horizontal and Vertical	139MG7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

TECOM	10950 11200	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
TECOM	10950 11700	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
TECOM	10950 12200	R	Horizontal and Vertical	27M0G7W	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

TECOM	11200 11450	R	Horizontal and Vertical	139MG7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
TECOM	11200 11450	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
TECOM	11200 11450	R	Horizontal and Vertical	54M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

TECOM	11450 11700	R	Horizontal and Vertical	139MG7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
TECOM	11450 11700	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
TECOM	11450 12200	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

TECOM	11450 12200	R	Horizontal and Vertical	27M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
TECOM	11450 12200	R	Horizontal and Vertical	36M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
TECOM	11700 12200	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

TECOM	11700 12200	R	Horizontal and Vertical	54M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
TECOM	12200 12750	R	Horizontal and Vertical	139MG7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
TECOM	12200 12750	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

TECOM	12200 12750	R	Horizontal and Vertical	54M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
TECOM	12250 12750	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						
TECOM	10950 12200	R	Horizontal and Vertical	1M05KG7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
QPSK, 16APSK						

TECOM	14000 14500	T	Horizontal and Vertical	21M0G7D	43.8	6.81
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E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

QPSK

TECOM	14000 14500	T	Horizontal and Vertical	32K0G7D	40.39	31.57
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E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

QPSK

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
TECOM	Geostationary	14000 14500	37.5/37.5	0.0	5.0	0.0	5.0	-7.66

	Geostationary	14000 14500	63.0/63.0	0.0	5.0	0.0	5.0	-2.7
	Geostationary	14000 14500	107.3/107.3	0.0	5.0	0.0	5.0	4.43
	Geostationary	10700 12200	129.15/129.15	0.0	5.0	360.0	5.0	0.0
	Geostationary	10950 11200	172.0/172.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	10950 12200	50.0/50.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	11200 11450	172.0/172.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	11450 11700	172.0/172.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	11450 12200	37.5/37.5	0.0	5.0	360.0	5.0	0.0
	Geostationary	11450 12200	58.0/58.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	11450 12200	63.0/63.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	11700 12200	107.3/107.3	0.0	5.0	360.0	5.0	0.0
	Geostationary	11700 12200	114.9/114.9	0.0	5.0	360.0	5.0	0.0
	Geostationary	12200 12750	172.0/172.0	0.0	5.0	360.0	5.0	0.0
	Geostationary	14000 14500	50.0/50.0	0.0	5.0	360.0	5.0	-3.7

	Geostationary	14000 14500	58.0/58.0	0.0	5.0	360.0	5.0	-3.17
	Geostationary	14000 14500	114.9/114.9	0.0	5.0	360.0	5.0	-6.7
	Geostationary	14000 14500	129.15/129.15	0.0	5.0	360.0	5.0	-14.56
	Geostationary	14000 14500	172.0/172.0	0.0	5.0	360.0	5.0	-0.7

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.		E66. Phone Number 1-425-415-9800	
E62. Street Address 26200 Enterprise Way			
E63. City Lake Forest	E68. County Orange	E67/68. State/Country CA/ USA	E64. Zip Code 92630

SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 – Schedule B:(Technical and Operational Description)
FOR OFFICIAL USE ONLY

Location of Earth Station Site			
E1. Site Identifier:	MELCO	E5. Call Sign:	
E2. Contact Name	MCC	E6. Phone Number:	1-425-415-9800
E3. Street:	26200 Enterprise Way	E7. City:	Lake Forest
E4. State	CA	E8. County:	Orange
E10. Area of Operation:		E9. Zip Code	92630
E11. Latitude:	0 °0 '0.0 "	U.S. and international airspace	
E12. Longitude:	0 °0 '0.0 "		
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input type="radio"/> NAD-83	<input checked="" type="radio"/> N/A
E14. Site Elevation (AMSL):	0.0 meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A

E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes <input type="radio"/> No
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E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA’s study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	<input type="radio"/> Yes <input checked="" type="radio"/> No
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POINTS OF COMMUNICATION

Satellite Name: OTHER OTHER If you selected OTHER, please enter the following:	
E21. Common Name: EUTELSAT 117WA	E22. ITU Name: MEXSAT-116.8-KU-EXT
E23. Orbit Location: 116.8 W.L.	E24. Country: Mexico

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier: MELCO	
E26. Common Name: EUTELSAT 117WA	E27. Country: USA

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size<meters>	E41/42. Antenna Gain Transmint and/or Recieve (____ dBi at _____ GHz)	
MELCO	MELCO	50	Mitsubishi Electronics	726-20176-101	0.68	32.2 dBi at 14.250	

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at antenna flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for al carriers(dBW)
MELCO	0.0/0.0	0.0	0.0	0.0	31.62	0.0	42.15

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V, L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
MELCO	14000 14400	T	Horizontal and Vertical	500KG7D	27.3	7.12

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

BPSK, QPSK

MELCO	14000 14400	T	Horizontal and Vertical	9M00G7D	39.85	7.12
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E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

BPSK, QPSK

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
MELCO	Geostationary	11700 12200	116.8/116.8	0.0	5.0	360.0	5.0	0.0
	Geostationary	14000 14500	116.8/116.8	0.0	5.0	360.0	5.0	-13.23

REMOTE CONTROL POINT LOCATION

<p>E61. Call Sign</p> <p>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.</p>	<p>E66. Phone Number</p> <p>1-425-415-9800</p>
<p>E62. Street Address</p> <p>26200 Enterprise Way</p>	

E63. City Lake Forest	E68. County Orange	E67/68. State/Country CA/ USA	E64. Zip Code 92630
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FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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