Date & Time Filed: Aug 20 2015 5:11:17:763PM

File Number: SES-AFS-20150820-00538

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:

Amendment of Pending Application to add POCs

1–8. Legal	Name of App	plicant		
	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: 571–332–5626

Company: LMI Advisors **Fax Number:**

Street: 8601 James Creek Drive E-Mail: cnalda@lmiadvisors.com

City: Springfield State: VA

Country: USA Zipcode: 22201–

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

b 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

b 13. Amendment to a Pending Database Entry Application

b 14. Modification of Database Entry

17c. Is a fee submitted with this applicati If Yes, complete and attach FCC Form	on? 159. If No, indicate reason for fee exemption (se	e 47 C.F.R.Section 1.1114).
Governmental Entity Noncomme	rcial educational licensee	
Other(please explain):		
17d.		
Fee Classification CGB – Mobile Satellite	Earth Stations	
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending ap modification please enter only the file number:	plication enter both fields, if this filing is a
(a) Call sign of station:	(a) Date pending application was filed:	(b) File number:
E100089	06/09/2015	SESMFS2015060900349
	00/07/2010	525111 52012 0007 000 17

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:
a. Fixed Satellite
b. Mobile Satellite
c. Radiodetermination Satellite
d. Earth Exploration Satellite
e. Direct to Home Fixed Satellite
f. Digital Audio Radio Service
g. Other (please specify)
21. STATUS: Choose the button next to the applicable status. Choose 22. If earth station applicant, check all that apply.
only one. Using U.S. licensed satellites
Common Carrier 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:
Connected to a Public Switched Network Not connected to a Public Switched Network N/A
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all applicable frequency band(s).
a. C–Band (4/6 GHz) b Ku–Band (12/14 GHz)
c.Other (Please specify upper and lower frequencies in MHz.)
Frequency Lower: 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 & mp; countries)
j — authorization to change Points of Communication (satellites & Double of Communication (satellites & Doub
k — authorization for facilities for which environmental assessment and
radiation hazard reporting is required
1 — authorization to change orbit location
m — authorization to perform fleet management
n — authorization to extend milestones
o — Other (Please specify)

ENVIRONMENTAL POLICY

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, aeron aeronautical fixed radio station services are not required to respond to Items 30–34.	autic	al en	ı rou	ite or		
29. Is the applicant a foreign government or the representative of any foreign government?	0	Yes	•	No		
30. Is the applicant an alien or the representative of an alien?	0	Yes	0	No	•	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	0	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?	0	Yes	0	No	•	N/A

 $lackbox{ Yes } lackbox{ No}$

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

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?	O Yes O	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? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	o Yes	No
36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	No

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

41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti–Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.	⊚ Yes	O No
42a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.	Yes	O No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, we coordinated or is in the process of coordinating the space station? United States, Permitted List (see Narrative Statement)		ration has

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.)

Amendment to pending modification application to add points of communication for the terminals licensed under Panasonic Avionic Corporation's ESAA blanket license (Call Sign E100089). See Narrative Statement.

Narrative Statement

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

CERTIFICATION

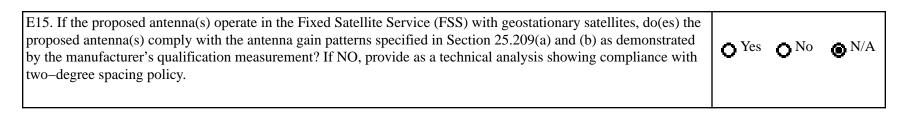
The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The 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 button next to ap	plicable response.)
o Individual	
 Unincorporated Association 	
Partnership	
Corporation	
Governmental Entity	
Other (please specify)	
_	
45. Name of Person Signing	46. Title of Person Signing
Mark DeFazio	Manager, GCS Regulatory and Business Operations

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 S	tation Site						
E1: Site Identifier:	PPA	E5. Call Sign:	E100089				
E2: Contact Name	Mark DeFazio	E6. Phone Number:	949-462-1683				
E3. Street:	26200 Enterprise Way	E7. City:	Lake Forest				
		E8. County:	Orange				
E4. State	CA	E9. Zip Code	92630				
E10. Area of Opera	tion:	USA and global					
E11. Latitude:	0 °0 '0.0 "						
E12. Longitude:	0 °0 '0.0 "						
E13. Lat/Lon Coord	dinates are:	O NAD-27	● NAD-83	O N/A			
E14. Site Elevation	(AMSL):	0.0 meters					



E16. If the proposed antenna(s) do not operate in the Fixed Satellite Ser Satellite Service (FSS) with non–geostationary satellites, do(es) the progain patterns specified in Section 25.209(a2) and (b) as demonstrated by measurements?	posed antenna(s) comply with the antenna	O Yes	⊚ No	O N/A
E17. Is the facility operated by remote control? If YES, provide the loca point.	tion and telephone number of the control	Yes	0	No
E18. Is frequency coordination required? If YES, attach a frequency coordination	ordination report as	Yes		No
		O Yes	•	NO
E19. Is coordination with another country required? If YES, attach the n coordination contours as	name of the country(ies) and plot of	• Yes	•	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.1 have you attached a copy of a completed FCC Form 854 and/or the FAA the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL I APPLICATION.	A's study regarding the potential hazard of	O Yes	•	No
POINTS OF COMMUNICATION		!		-
Satellite Name: AMC-16 AMC 16 85 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 e	nter the following:			

E21. Common Name: Eutelsat 115WB	E22. ITU Name:
E23. Orbit Location: 114.9 W.L.	E24. Country: Mexico

Satellite Name: OTHER OTHER	If you selected OTHER, please en	ter the following:
E21. Common Name: IS-29E		E22. ITU Name:
E23. Orbit Location: 50 W.L.		E24. Country: USA

POINTS OF COMMUNICATION (Destination Points)

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

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer		Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)	
PPA	PPA	2000	Panasonic	Aura LE	0.89	36.2 dBi at 12.0	

E28. Antenna Id			` ′	Height Above	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
PPA	0.0/0.0	0.0	0.0	0.0	16.0	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	10950 12500	R	Horizontal and Vertical	1M20KG7D	0.0	0.0
E50. Modulation entirety.) PSK	i and Services (If the	le complete descrip	uon does not appear ir	i uns box, piease go	to the end of the form	to view it in its
PPA	10950 12500	R	Horizontal and Vertical	36M0KG7D	0.0	0.0
E50. Modulation entirety.) PSK	and Services (If the	ne complete descrip	tion does not appear ir	this box, please go	to the end of the form	to view it in its
PPA	10950 12500	R	Horizontal and Vertical	54M0KG7D	0.0	0.0

E50. Modulation entirety.)	n and Services (If the complete d	escription does not appear	in this box, please §	go to the end of t	the form to view it in its
PSK						
PPA	11700 12200	R	Horizontal and Vertical	36M0KG7D	0.0	0.0
PSK						
PPA	14000 14500	Т	Horizontal and Vertical	500KG7D	44.5	24.32
E50. Modulation entirety.) BPSK, SPR	n and Services (If the complete d	lescription does not appear	in this box, please §	go to the end of t	the form to view it in its

FREQUENCY COORDINATION

E28. Antenna Id			Range of	0	E57. Antenna Elevation Angle Eastern Limit	Station Azimuth Angle	Elevation Angle	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
PPA	Geostationary	10950 12500	180.0/180.0	90.0	10.0	270.0	10.0	0.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign E100089 NOTE: Please enter the callsign of the contro callsign for which this application is being filed.		E66. Phone Number 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 St	ation Site					
E1: Site Identifier:	MELCO	E5. Call Sign:	E100089			
E2: Contact Name	Mark DeFazio	E6. Phone Number:	949–462–1683			
E3. Street:	26200 Enterprise Way	E7. City:	Lake Forest			
		E8. County:	Orange			
E4. State	CA	E9. Zip Code	92630			
E10. Area of Operat	tion:	USA and global				
E11. Latitude:	0 °0 '0.0 "					
E12. Longitude:	0 °0 '0.0 "					
E13. Lat/Lon Coord	linates are:	○ NAD-27	● NAD-83	O 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.	O Yes	O 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?	○ Yes	● No	O N/A

E17. Is the facility operated by remote control? If YES, provide the loc point.	ation and telephone number of the control	● Yes	O No
E18. Is frequency coordination required? If YES, attach a frequency co	ordination report as Technical Appendix	O Yes	No
E19. Is coordination with another country required? If YES, attach the coordination contours as	name of the country(ies) and plot of	O Yes	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.1 have you attached a copy of a completed FCC Form 854 and/or the FA the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL APPLICATION.	A's study regarding the potential hazard of	O Yes	No
POINTS OF COMMUNICATION		,	
Satellite Name: OTHER OTHER If you selected OTHER, please of	enter the following:		
E21. Common Name: Eutelsat 115WB	E22. ITU Name:		
E23. Orbit Location: 114.9 W.L.	E24. Country: USA		
Satellite Name: OTHER OTHER If you selected OTHER, please of	enter the following:		
E21. Common Name: IS-29E	E22. ITU Name:		
E23. Orbit Location: 50 W.L.	E24. Country: USA		
Satellite Name: AMC-16 AMC 16 85 W.L. If you selected OTHE	R, please enter the following:		
Saterific Name. AMC-10 AMC 10 85 W.L. II you selected OTHE	x, please enter the following:		

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

POINTS OF COMMUNICATION (Destination Points)

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

ANTENNA

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

Id	Diameter		, ,	Height Above Ground Level	Input Power at antenna flange	U	EIRP for al
MELCO	0.0/0.0	0.0	0.0	0.0	9.9	0.0	42.1

FREQUENCY

	E43/44. Frequency Bands (MHz)	E45. T/R Mode			E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
MELCO	10950 12500	R	Horizontal and Vertical	1M20KG7D	0.0	0.0

E50. Modul entirety.)	lation and Services ((If the complete de	escription does not appear	in this box, please g	go to the end of	the form to view it in its	
PSK							
MELCO	10950 12500	R	Horizontal and Vertical	36M0KG7D	0.0	0.0	
E50. Modul entirety.)	lation and Services ((If the complete de	escription does not appear	in this box, please g	go to the end of	the form to view it in its	
PSK							
MELCO	10950 12500	R	Horizontal and Vertical	54M0KG7D	0.0	0.0	
E50. Modul entirety.)	lation and Services ((If the complete de	escription does not appear	in this box, please g	go to the end of	the form to view it in its	
PSK							
MELCO	11700 12200	R	Horizontal and Vertical	36M0KG7D	0.0	0.0	

E50. Modulation entirety.)	and Services (If	the complete desc	cription does not appear	in this box, please g	go to the end of the	he form to view it in its
PSK						
MELCO	14000 14500	Т	Horizontal and Vertical	500KG7D	36.3	16.12
E50. Modulation entirety.) BPSK, QPSK	Digital Data		cription does not appear	71 - C		
MELCO	14000 14500	Т	Horizontal and Vertical	9M00KG7D	48.0	15.27
E50. Modulation entirety.) BPSK, QPSK	and Services (If		cription does not appear	in this box, please g	go to the end of the	he form to view it in its

FREQUENCY COORDINATION

E28. Antenna Id		, , ,	Range of Satellite Arc Eastern/West	Station Azimuth Angle	E57. Antenna Elevation Angle Eastern Limit	Station Azimuth Angle	Antenna Elevation Angle	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
MELCO	Geostationary	10950 12500	37.5/91.0	90.0	10.0	270.0	10.0	0.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign E100089 NOTE: Please enter the callsign of the contro callsign for which this application is being filed.	E66. Phone Number 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

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD–PERM, Paperwork Reduction Project (3060–0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060–0678.

THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104–13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.