Approved by OMB 3060–0678

Date & Time Filed: Jun 3 2008 4:29:55:153PM File Number: SES-MOD-INTR2008-01297

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 to add new CCT90 Earth station antennas

1–8. Legal N	Name of App	plicant		
1	Name:	SWE-DISH Satellite Systems, Inc.	Phone Number:	703–476–1826 x11
	DBA Name:		Fax Number:	703–476–5423
S	Street:	21251 Ridgetop Circle	E-Mail:	mark.steel@swe-dish.com
		Suite 120		
(City:	Sterling	State:	VA
(Country:	USA	Zipcode:	20166 –
I	Attention:	Mr Mark Steel		

9–16. Name of Contact Representative

Name:	Stephen L. Goodman	Phone Number:	202-454-2851
Company:	Tighe Patton Armstrong Teasdale	Fax Number:	202-454-2805
Street:	1747 Pennsylvania Avenue, NW	E-Mail:	SGoodman@tighepatton.com
	Suite 300		
City:	Washington	State:	DC
Country:	USA	Zipcode:	20006-4604
Attention:		Relationship:	Legal Counsel

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.	 (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
 a1. Earth Station a2. Space Station 	 b4. Modification of License or Registration b5. Assignment of License or Registration b6. Transfer of Control of License or Registration b7. Notification of Minor Modification
	 (N/A) b8. Application for License of New Receive–Only Station Using Non–U.S. Licensed Satellite (N/A) b9. Letter of Intent to Use Non–U.S. Licensed Satellite to Provide Service in the United States (N/A) b10. Other (Please specify) (N/A) b11. Application for Earth Station to Access a Non–U.S.satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States (N/A) b12. Application for Database Entry b13. Amendment to a Pending Database Entry Application b14. Modification of Database Entry

17c. Is a fee submitted with this application?				
If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).				
O Governmental Entity O Noncomme	ercial educational licensee			
• Other(please explain):				
17d.				
Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station				
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending a modification please enter only the file number:	pplication enter both fields, if this filing is a		
(a) Call sign of station:	(a) Date pending application was filed:	(b) File number:		
E030197		SESMOD2007113001649		

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provid	e 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 Non–Common Carrier	Using Non–U.S. licensed satellites		
23. If applicant is providing INTERNATIONAL COMMON CARRIER facilities:	service, see instructions regarding Sec. 214 filings. Choose one. Are these		
• 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 a	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 addition	onal 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.
o a. Fixed Earth Station
• b. Temporary–Fixed Earth Station
o c. 12/14 GHz VSAT Network
O 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



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.			у			
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aerona aeronautical fixed radio station services are not required to respond to Items 30–34.	autic	al en	rou	te or		
29. Is the applicant a foreign government or the representative of any foreign government?	0	Yes	۲	No		
30. Is the applicant an alien or the representative of an alien?	0	Yes	0	No	۲	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	0	No	۲	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	۲	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?

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	

O Yes O No ⊚ N/A

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	● 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	O 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	O No
40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.		

41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti–Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.

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, what administration has coordinated or is in the process of coordinating the space station?

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

SWE-DISH is seeking a modification to add to its license (Call Sign E030197) ten of its new model transportable earth stations -- the Suitcase CCT90 -- in order to be able demonstrate the enhanced capabilities of this new earth station to potential government and commercial customers. SWE-DISH has discussed operation of this new earth station with

Product Sheets

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.	О ^В
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 applicable response.)				
O Individual				
• Unincorporated Association				
• Partnership				
• Corporation				
O Governmental Entity				
• Other (please specify)				
	46. Title of Person Signing			
Mark Steel Vice President of Engineering				
>				
WILLFUL FALSE STATEMENTS MADE ON THIS FORM A (U.S. Code, Title 18, Section 1001), AND/OR REV (U.S. Code, Title 47, Section 312(a)(1)), AND/OR F	VOCATION OF ANY STATION AUTHORIZATION			

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:	CCT90 Transportable	E5. Call Sign:	E030197			
E2: Contact Name	Mark Steel	E6. Phone Number:	703-476-1826			
E3. Street:	Various	E7. City:	Various			
		E8. County:	Various			
E4. State		E9. Zip Code	20166			
E10. Area of Operation:		Throughout the Un	ited States			
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				

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	O ^{No}	O ^{N/A}
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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?	O ^{Yes}	O ^{No}	● ^{N/A}
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Yes	۲	No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as Antenna Patterns	0	Yes	۲	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0	Yes	۲	No
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.	۲	Yes	0	No

POINTS OF COMMUNICATION

Satellite Name: GALAXY XI GALAXY XI 91 W.L.	If you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: TELSTAR 11 | ORION F1 | 37.5 W.L. If you selected OTHER, please enter the following:

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

Satellite Name: TELSTAR 6 TELSTAR 6 93 W.L.	If you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: AMC-3 AMC-3 87 W.L.	If you selected OTHER, p	lease enter the following:
E21. Common Name:		E22. ITU Name:
E23. Orbit Location:		E24. Country:

Satellite Name: GALAXY 10R GALAXY 10R 123 W.L. If you see	elected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: AMC 1 AMC 1 103 W.L. If you selected OTHER, pl		lease enter the following:
E21. Common Name:		E22. ITU Name:
E23. Orbit Location:		E24. Country:

Satellite Name: HORIZONS 1 HORIZONS 1 127 DEG WL If y	you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: AMC-4 (formerl GE-4 | AMC-4 | 101 W.L. If you selected OTHER, please enter the following:

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

Satellite Name: SBS-6 SBS-6 74 DEG. WL	f you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:	
E23. Orbit Location:	E24. Country:	

Satellite Name: AMC-5 (formerl GE-5 AMC-5 79 W.L. If you	selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: PAS-1R PANAMSAT-1R 45.0 W.L. If you selected OTHER, please enter the following:				
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			

Satellite Name: GALAXY 10R GALAXY 10R 123 W.L. If you sel	ected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: GALAXY III–C GALAXY III–C 95 W.L. If you	a selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:	
E23. Orbit Location:	E24. Country:	

Satellite Name: INTELSAT 8 | INTELSAT | 89 W.L. If you selected OTHER, please enter the following:

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

Satellite Name: AMC-6 AMC-6 72 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:					
E26. Common Name:	E27. Country:				

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi at GHz)	
CCT90 Transportable	ССТ90 1–10	10	SWE–DISH	Suitcase CCT90	0.66	38.2 dBi at 12.2	
CCT90 Transportable	CCT90 1–10	10	SWE–DISH	Suitcase CCT90	0.66	38.1 dBi at 14.25	

Id	Diameter			Height Above Ground Level	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
CCT90 1-10	0.66/0.9	1.0	1.0	0.0	4.0	1.0	54.1

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)
ССТ90 1–10	10950 12750	R	OTHER	16M04G7W	0.0	0.0
E50. Modulation entirety.) Various	and Services (If the services of the services	ne complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
CCT90 1–10	11450 11700	R	OTHER	16M04G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If the services)	ne complete descripti	I on does not appear in	this box, please go to	the end of the form	to view it in its
Various						
ССТ90 1-10	11700 12200	R	OTHER	16M04G7W	0.0	0.0

E50. Modulation and Serv entirety.)	ices (If the complete de	escription does not app	ear in this box, please g	go to the end of the	he form to view it in its	
Various						
CCT90 1–10 14000 14500	Т	OTHER	16M04G7W	54.1	22.4	
E50. Modulation and Serv entirety.) Various	ices (If the complete de	escription does not app	ear in this box, please g	go to the end of the	he form to view it in its	

FREQUENCY COORDINATION

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

REMOTE CONTROL POINT LOCATION

E61. Call Sign		E66. Phone Number		
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.				
E62. Street Address				
E63. City	E68. County		E67/68. State/Country	E64. Zip Code
			/	

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 jboley@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.

43. Description. (Summarize the nature of the application and the services to be provided).

SWE-DISH is seeking a modification to add to its license (Call Sign E030197) ten of its new model transportable earth stations -- the Suitcase CCT90 -- in order to be able demonstrate the enhanced capabilities of this new earth station to potential government and commercial customers. SWE-DISH has discussed operation of this new earth station with the potentially-affected satellite operators, and they voiced no objections. SWE-DISH will operate these earth stations consistent with the parameters of its currently-licensed earth stations.