Date & Time Filed: Jul 6 2005 9:29:54:920AM File Number: SES-MOD-INTR2005-01478

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 E910609 to add 1.0, 1.2 and 2.4 meter remote antennas and change in Hub facilities.

1–8. Legal Name of Ap	plicant		
Name:	IWL COMMUNICATIONS INC DBA CAPROCK SERVICES CORP	Phone Number:	832–668–2300
DBA Name:		Fax Number:	832–668–2780
Street:	4400 S. Sam Houston Parkway Ea	E-Mail:	jmcdonald@cprk.com
City:	Houston	State:	TX
Country:	USA	Zipcode:	77048 –
Attention:	Jill McDonald		

9–16. Name of Contact Representative

Name: Jill McDonald Phone Number: 832–668–2300

Company: IWL COMMUNICATIONS INC Fax Number: 832–668–2780

DBA CAPROCK SERVICES

CORP

Street: 4400 S. Sam Houston Parkway Ea E-Mail: jmcdonald@cprk.com

City: Houston State: TX

Country: USA Zipcode: 77048–

Attention: Relationship:

CLASSIFICATION OF FILING

for 17a and only one for 17b.

a1. Earth Station

a2. Space Station

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one both questions a. and b. Choose only one (N/A) b1. Application for License of New Station (N/A) b2. Application for Registration of New Domestic Receive—Only Station

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

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

b5. Assignment of License or Registration

b6. Transfer of Control of License or Registration

(N/A) b7. Notification of Minor Modification

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

(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)

17c. Is a fee submitted with this applicati						
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	rcial educational licensee					
Other(please explain):	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 an modification please enter only the file number:	oplication enter both fields, if this filing is a				
(a) Call sign of station:	(a) Date pending application was filed:	(b) File number:				
E910609		SESRWL2001103001947				

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide	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 s facilities:	service, see instructions regarding Sec. 214 filings. Choose one. Are these
O 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	pplicable 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	nal frequencies in an attachment)

TYPE OF STATION

25. CLASS OF STATION: Choose the button	next to the class of sta	tion that applies. Choose only	one.	
a. Fixed Earth Station				
o b. Temporary–Fixed Earth Station				
o. 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/Δ		
Transmit/Receive Transmit-Only "For Space Station applications, select N/A."	O Receive—Only	O 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 & Double
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

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

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?	0	Yes	•	No		
30. Is the applicant an alien or the representative of an alien?	0	Yes	•	No	0	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	•	No	0	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	•	No	0	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?	O Yes •	No O N/A
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.		
BASIC QUALIFICATIONS		
35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	• Yes	No
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	O Yes	No

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

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

Addition of fixed transportable 1.0 meter, 1.2 meter and 2.4 meter Ku-band transmit/receive earth station remote antennas to Call Sign E910609, as well as, change in Remote Control Hub facilities.

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.)		•
0000	Individual Unincorporated Association Partnership Corporation Governmental Entity Other (please specify)		
	45. Name of Person Signing fill McDonald >	46. Title of Person Signing Vice President	_

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:	VSAT	E5. Call Sign:	E910609			
E2: Contact Name	Khalid Khan	E6. Phone Number:	832 668–2667			
E3. Street:	4400 South Sam Houston Pkwy.	E7. City:	Houston			
		E8. County:	Harris			
E4. State	TX	E9. Zip Code	77034			
E10. Area of Opera	tion:	CONUS				
E11. Latitude:	0 °0 '0.0 "N					
E12. Longitude:	0 °0 '0.0 "W					
E13. Lat/Lon Coore	dinates are:	○ NAD-27	○ NAD-83	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	⊚ No	O N/A
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E16. If the proposed antenna(s) do not operate in the Fixed Satellite Set 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	O No	● N/A
E17. Is the facility operated by remote control? If YES, provide the loca point.	ntion and telephone number of the control	Yes	0	No
E18. Is frequency coordination required? If YES, attach a frequency coordination	ordination report as	O Yes	•	No
E19. Is coordination with another country required? If YES, attach the recoordination 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 FAA 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: ALSAT ALL AUTHORIZED U.S. ALSAT If you s	elected 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 atGHz)
VSAT	1M	7	Seatel	4003	1.0	39.8 dBi at 12
VSAT	1M	7	Seatel	4003	1.0	41.5 dBi at 14
VSAT	1.2M	10	Seatel	4996	1.2	41.65 dBi at 12
VSAT	1.2M	10	Seatel	4996	1.2	42.5 dBi at 14
VSAT	2.4M-9797	25	Seatel	9797	2.4	47.7 dBi at 12
VSAT	2.4M-9797	25	Seatel	9797	2.4	48.5 dBi at 14
VSAT	2.4m-9997	5	Seatel	9997	2.4	47.7 dBi at 12
VSAT	2.4m-9997	5	Seatel	9997	2.4	48.9 dBi at 14

	otal E39. Maximum E40. Total
Id Diameter Ground Level Level(meters) Height Above Input F	Power at Antenna Height EIRP for al
Minor/Major (meters) Ground Level antenn	a flange Above Rooftop carriers(dBW)
(meters) (Watts)) (meters)

1M	0.0/0.0	1.0	0.0	0.0	2.2	0.0	44.9
1.2M	0.0/0.0	1.2	0.0	0.0	1.7	0.0	44.9
2.4M-9797	0.0/0.0	2.4	0.0	0.0	1.1	0.0	48.9
2.4m-9997	0.0/0.0	2.4	0.0	0.0	2.5	0.0	52.9

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode			EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
1M	11700 12200	R	Horizontal and Vertical	220KG7D	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.)

Digital Data Carrier

1M	11700	R	Horizontal and	288KG7D	0.0	0.0
1111	12200		Vertical	200 R G/D	0.0	0.0
	112200		vertical			

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.)

Digital Data Carrier

1M	11700 12200	R	Horizontal and Vertical	438KG7D	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear i	n this box, please go t	to the end of the form	to view it in its
Digital Da	ta Carrier					
1M	14000 14500	Т	Horizontal and Vertical	220KG7D	41.9	24.5
entirety.) Digital Da	ta Carrier					
1M	14000 14500	Т	Horizontal and Vertical	288KG7D	43.1	24.5
E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear i	n this box, please go t	to the end of the form	to view it in its
Digital Da	ta Carrier					

1M	14000 14500	Т	Horizontal and Vertical	438KG7D	44.9	24.5
E50. Modulation entirety.)	and Services (If the	he complete descripti	ion does not appear	in this box, please	go to the end of the	he form to view it in its
Digital Da	ta Carrier					
1.2M	11700 12200	R	Horizontal and Vertical	220KG7D	0.0	0.0
Digital Da	ta Carrier					
1.2M	11700 12200	R	Horizontal and Vertical	288KG7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	he complete descripti	ion does not appear	in this box, please	go to the end of the	he form to view it in its
Digital Da	ta Carrier					

1.2M	11700 12200	R	Horizontal and Vertical	438KG7D	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descript	ion does not appear	in this box, please	go to the end of th	ne form to view it in its
Digital Da	ta Carrier					
1.2M	14000 14500	Т	Horizontal and Vertical	220KG7D	41.9	24.5
entirety.) Digital Da	ta Carrier					
1.2M	14000 14500	Т	Horizontal and Vertical	288KG7D	43.1	24.5
E50. Modulation entirety.) Digital Da	and Services (If t	he complete descript	ion does not appear	in this box, please	go to the end of th	ne form to view it in its

1.2M	14000 14500	Т	Horizontal and Vertical	438KG7D	44.9	24.5
E50. Modulation entirety.)	and Services (If t	he complete description	on does not appear i	n this box, please go t	to the end of the form	to view it in its
Digital Da	ta Carrier					
2.4M-9797	11700 12200	R	Horizontal and Vertical	220KG7D	0.0	0.0
entirety.) Digital Da	ta Carrier					
2.4M-9797	11700 12200	R	Horizontal and Vertical	288KG7D	0.0	0.0
E50. Modulation entirety.) Digital Da	and Services (If t	l he complete description	I on does not appear i	n this box, please go t	to the end of the form	to view it in its

2.4M-9797	11700 12200 R		Horizontal and Vertical	438KG7D	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete des	scription does not appear	in this box, please	go to the end of the	he form to view it in its
Digital Da	ata Carrier					
2.4M-9797	14000 14500	Т	Horizontal and Vertical	220KG7D	45.9	28.5
Digital Da	ata Carrier					
2.4M-9797	14000 14500	Т	Horizontal and Vertical	288KG7D	47.1	28.5
E50. Modulation entirety.)	and Services (If t	he complete des	scription does not appear	in this box, please	go to the end of the	he form to view it in its
Digital Da	ata Carrier					

2.4M-9797	14000 14500	Т	Horizontal and Vertical	438KG7D	48.9	28.5
E50. Modulation entirety.)	and Services (If	the complete des	scription does not appear	in this box, please	go to the end of the	he form to view it in its
Digital Da	ata Carrier					
2.4m-9997	11700 12200	R	Horizontal and Vertical	220KG7D	0.0	0.0
Digital Da	ata Carrier					
2.4m-9997	11700 12200	R	Horizontal and Vertical	288KG7D	0.0	0.0
E50. Modulation entirety.) Digital Da	and Services (If	the complete des	scription does not appear	in this box, please	go to the end of the	ne form to view it in its

2.4m-9997	11700 12200	R	Horizontal and Vertical	438KG7D	0.0	0.0
E50. Modulation entirety.)	and Services (If	the complete de	escription does not appear	in this box, please	go to the end of the	he form to view it in its
Digital Da	ata Carrier					
2.4m-9997	14000 14500	Т	Horizontal and Vertical	220KG7D	49.9	32.5
Digital Da	ata Carrier					
2.4m-9997	14000 14500	Т	Horizontal and Vertical	288KG7D	51.1	32.5
E50. Modulation entirety.)	and Services (If	the complete de	escription does not appear	in this box, please	go to the end of the	he form to view it in its
Digital Da	ata Carrier					

2.4m-9997	14000 14500	Т	Horizontal and Vertical	438KG7D	52.9	32.5
E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go to	the end of the form	to view it in its
Digital Da	ta Carrier					

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)
1M	Geostationary	11700 12200	0.0/0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14000 14500	0.0/0.0	0.0	5.0	0.0	5.0	-17.0
1.2M	Geostationary	11700 12200	0.0/0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14000 14500	0.0/0.0	0.0	5.0	0.0	5.0	-18.0
2.4M-9797	Geostationary	11700 12200	0.0/0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14000 14500	0.0/0.0	0.0	5.0	0.0	5.0	-20.0

2.4m-9997	Geostationary	11700 12200	0.0/0.0	0.0		5.0	0.0		5.0		0.0
	Geostationary	14000 14500	0.0/0.0	0.0		5.0	0.0		5.0		-16.4
REMOTE C	ONTROL POIN	T LOCATION		•			•				
	Sign case enter the calls hich this applicati	•	•	ot the		. Phone Ni 668–2667					
E62. Street 4400 South Parkway E	n Sam Houston				ļ						
E63. City Houston	· · · · · · · · · · · · · · · · · · ·			ity			State	E67/68. E64 State/Country 770: TX/ USA			Zip Code 34
	Sign ease enter the calls hich this applicati			not the		. Phone No 668–2667					
E62. Street 4400 South Parkway E	n Sam Houston				I						
E63. City Houston			E68. Coun Harris	ity			State	E67/68. e/Country EX/ USA		E64. 7703	Zip Code 34

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