Date & Time Filed: Jun 22 2006 12:44:03:230PM File Number: SES–LIC–INTR2006–01639 Callsign/Satellite ID:

A	PPLICATION FOR EARTH STATI	ON AUTHORIZATIONS	FCC Use Only	
	FCC 312 MAIN FORM FOR O	FFICIAL USE ONLY		
-	ORMATION of this application to identify it o	n the main menu:		
WD 143 MENSA 1–8. Legal Name of A	Applicant			
1–6. Legal Maine Of A	Applicant			
Name:	Shell Communications, Inc.	Phone Number:	713–245–1303	
DBA Name:		Fax Number:	713-245-1010	
Street:	20329	E-Mail:		
City:	Houston	State:	ТХ	
Country		Zipcode:	77252 -0329	

Name:	Mona Lee	Phone Number:	(713) 245–1303
Company:	Shell Communications Inc.	Fax Number:	(713) 245–1010
Street:	P.O. Box 20329	E-Mail:	Mona.Lee@Shell.com
City:	Houston	State:	TX
Country:	USA	Zipcode:	77252-0329
Attention:	Room 8W04	<b>Relationship:</b>	Other

### CLASSIFICATION OF FILING

<ul> <li>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.</li> <li>a.</li> <li>a1. Earth Station</li> <li>(N/A) a2. Space Station</li> </ul>	<ul> <li>b.</li> <li>b1. Application for License of New Station</li> <li>b2. Application for Registration of New Domestic Receive–Only Station</li> <li>(N/A) b3. Amendment to a Pending Application</li> <li>(N/A) b4. Modification of License or Registration</li> <li>(N/A) b5. Assignment of License or Registration</li> <li>(N/A) b6. Transfer of Control of License or Registration</li> <li>(N/A) b7. Notification of Minor Modification</li> <li>(N/A) b8. Application for License of New Receive–Only Station Using Non–U.S. Licensed</li> <li>Satellite</li> <li>(N/A) b9. Letter of Intent to Use Non–U.S. Licensed Satellite to Provide Service in the United</li> <li>States</li> <li>b10. Other (Please specify)</li> <li>b11. Application for Earth Station to Access a Non–U.S. satellite Not Currently Authorized to</li> </ul>
	Provide the Proposed Service in the Proposed Frequencies in the United States.

<ul> <li>17c. Is a fee submitted with this applicat</li> <li>If Yes, complete and attach FCC Form</li> <li>Governmental Entity</li> <li>Other(please explain):</li> </ul>	159. If No, indicate reason for fee exemption (s	ee 47 C.F.R.Section 1.1114).
17d. Fee Classification BAX – Fixed Satellite T	Fransmit/Receive Earth	
Station	1	
18. If this filing is in reference to an existing station, enter:	<ul><li>19. If this filing is an amendment to a pending a</li><li>(a) Date pending application was filed:</li></ul>	pplication enter: (b) File number of pending application:
(a) Call sign of station: Not Applicable	Not Applicable	Not Applicable

## TYPE OF SERVICE

$\mathbf{F}_{\mathbf{r}}$ = $\mathbf{F}_{\mathbf{r}}$ = $1 \mathbf{G}_{\mathbf{r}}$ = $1 \mathbf{G}_{\mathbf{r}}$
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 s facilities:	ervice, 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	pplicable frequency band(s).
<b>a</b> . C–Band (4/6 GHz) <b>b</b> . Ku–Band (12/14 GHz)	
c.Other (Please specify upper and lower frequencies in MHz.)	
Frequency Lower: Frequency Upper:	

#### 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
(N/A) e. Geostationary Space Station
(N/A) f. Non–Geostationary Space Station
g. Other (please specify)

26. TYPE OF EARTH STATION FACILITY: Choose only one.

Transmit/Receive
Transmit–Only
Receive–Only
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.)

Not Applicable

#### 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.

O Yes ● No

Exhibit E28

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

31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes	● No	O 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?	O Yes	● <sup>No</sup>	O N/A
33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one–fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	O Yes	No 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.	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.	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 attemptiing unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	O Yes	● No
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	O Yes	lo No

<ul> <li>a. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is abject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti–Drug Act of 988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 7 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.</li> </ul>	• Yes	O No
2a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Yes, nswer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, roceed to question 43.	O Yes	● No
nswer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No,		

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.)

Gulf of Mexico Hurricane Disaster Recovery Communication Unit - 2.4M C-Band Fixed Satellite System - Transmission and reception of digital data in support of critical infrastructure operations.

Exhibit E43

#### 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

O Unincorporated Association

- Partnership
- Corporation
- Governmental Entity
- Other (please specify)

45. Name of Person Signing Mr. Don Happel		46. Title of Person Signing Telecommunications Manager		
47. Please supply any need attachments.				
Attachment 1:	Attachment 2:		Attachment 3:	
(U.S. Code, Title		EVOCATION OF AN	E BY FINE AND / OR IMPRISONMENT Y STATION AUTHORIZATION 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 Stati	ion Site			
E1: Site Identifier: W	WD 143 Mensa	E5. Call Sign:		
E2: Contact Name M	Mona Lee	E6. Phone Number:	(713) 245–1303	
E3. Street:		E7. City:		
		E8. County:		
E4. State		E9. Zip Code		
E10. Area of Operation	on:	Gulf of Mexico		
E11. Latitude: 2	28 °39 '25.2 "N			
E12. Longitude: 8	89 °33 '3.0 "W			
E13. Lat/Lon Coordin	nates are:	O NAD-27	NAD-83	O <sup>N/A</sup>
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 asExhibit E15 a technical analysis showing compliance with two-degree spacing policy.	• Yes	O <sup>No</sup>	O <sup>N/A</sup>
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	<b>○</b> <sup>No</sup>	● N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	• Yes	0	No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	۲	Yes	<b>O</b> N	Ιο
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0	Yes	<b>()</b> N	Ιο
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.	0	Yes	() ()	Ιο

#### POINTS OF COMMUNICATION

Satellite Name:SATMEX-5 | SATMEX-5 | 116.8 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: WD 143 Mensa	
E26. Common Name:	E27. Country:USA

# ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi at GHz)
WD 143 Mensa	SHELL – 6	1	Andrew	243	2.4	38.5 dBi at 3.95
						42.0 dBi at 6.17

Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level  (meters)	(meters)	0	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers  (dBW)
SHELL – 6	0.0/0.0	61.82	61.82	0.0	10.0	0.0	52.0

## FREQUENCY

 E43/44. Frequency Bands	E45. T/R Mode			E48. Maximum EIRP per Carrier	E49. Maximum ERIP Density per
(MHz)		L,R)	_	(dBW)	Carrier
					(dBW/4kHz)

SHELL – 6	3700	4200 R		Horizontal and Vertical	4M30G7W	0.0	0.0	
E50. Modula	ation and Service	es (If the c	omplete descriptio	n does not appear	in this box, plea	se go to the end	l of the form to v	iew it in its
entirety.)								
QPSK -	Data							
SHELL – 6	6067	6072 T		Horizontal and Vertical	4M30G7W	52.0	22.	4
E50. Modula entirety.)	ation and Service	es (If the c	omplete descriptio	n does not appear	in this box, plea	se go to the end	l of the form to v	lew it in its
	COORDINA	ΓΙΟΝ						
_		1					7.50	
E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MH	E54/55. Range of z) Satellite Arc E/W 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)

50.3

228.49

44.29

-25.6

SHELL – 6	Geostationary	6067 6072	109.0/ 118.0	216.37		
REMOTE CONTROL POINT LOCATION						

E61. Call Sign E030253 NOTE: Please enter the callsign of the contro callsign for which this application is being filed.	E65. Phone Number (832) 668–2300			
E62. Street Address 4400 S. Sam Houston Pkwy East				
E63. City Houston	E67. County Harris		E64/68. State/Country TX/ USA	E66. Zip Code 77048

#### 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.