

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
60-day STA for Permitted List Authority (E060224)

1. Applicant

Name:	Shell Communications, Inc.	Phone Number:	713-241-3932
DBA Name:		Fax Number:	
Street:	ONE SHELL PLAZA, 910 LOUISIANA ST	E-Mail:	MONA.LEE@SHELL.COM
City:	Houston	State:	TX
Country:	USA	Zipcode:	77002
Attention:	Mona Lee		



File # SES-STA-20160112-00045
Call Sign H060224 Grant Date 1-20-16
(or other identifier)
Term Dates
From: 1-20-16 To: 3-30-16
Approved: Mona Lee

2. Contact	
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: 22152 -
Attention:	Relationship: Other
(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)	
3. Reference File Number or Submission ID	
4a. Is a fee submitted with this application? <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). <input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee <input type="radio"/> Other (please explain):	
4b. Fee Classification CGX - Fixed Satellite Transmit/Receive Earth Station	
5. Type Request	
<input checked="" type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input type="radio"/> Other	
6. Requested Use Prior Date 01/20/2016	
7. City Fourchon	
8. Latitude (dd mm ss.s h) 29 7 22.8 N	

9. State	10. Longitude (dd mm ss.s h) 90 11 55.4 W
11. Please supply any need attachments. Attachment 1: STA Narrative Attachment 2: Coordination Report Attachment 3:	
12. Description. (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) <div style="border: 1px solid black; padding: 5px;"> Shell seeks a 60-day special temporary authorization to operate its licensed Andrew 243 C-band terminal on the Fourchon while communicating with satellites on the Commission's Permitted Space Station List. </div>	
13. 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. <div style="text-align: right;"> Yes <input checked="" type="radio"/> No <input type="radio"/> </div>	
14. Name of Person Signing Don Happel	15. Title of Person Signing Telecommunications Manager
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).	

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FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
Shell Communications Inc
FOURCHON, LA
(E060224)
Satellite Earth Station

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147
January 07, 2016

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1. CONCLUSIONS

An interference study considering all existing, proposed and prior coordinated microwave facilities within the coordination contours of the proposed earth station demonstrates that this site will operate satisfactorily with the common carrier microwave environment. Further, there will be no restrictions of its operation due to interference considerations.

2. SUMMARY OF RESULTS

A number of great circle interference cases were identified during the interference study of the proposed earth station. Each of the cases, which exceeded the interference objective on a line-of-sight basis, was profiled and the propagation losses estimated using NBS TN101 (Revised) techniques. The losses were found to be sufficient to reduce the signal levels to acceptable magnitudes in every case.

3. SUPPLEMENTAL SHOWING

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station proposed in this application was coordinated by Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations.

Coordination data for this earth station was sent to the below listed carriers with a letter dated 12/15/2015.

Company

Alltel Communications LLC - LA/MS/AR/FL
Cleco Power LLC
ENERGY XXI LLC
Entergy Services Inc
Greater Lafourche Port Commission
Infrastructure Networks, Inc.
Jefferson Parish Sheriff's Office
LOOP LLC
Louisiana Dept of Transportation and Dev
Louisiana, State Of
NEW ORLEANS CITY POLICE DEPARTMENT
New Cingular Wireless PCS, LLC - LA, GM
New Orleans City
Plaquemines Parish Government
RigNet SatCom, Inc.
Southern Light, LLC
Sprint Spectrum L.P.
Sprint Spectrum LP Louisiana
T-Mobile License LLC
TELELINK INC.
Transcontinental Gas Pipeline Corp.
WWL-TV, Inc.

4. EARTH STATION COORDINATION DATA

This section presents the data pertinent to frequency coordination of the proposed earth station that was circulated to all carriers within its coordination contours.

COMSEARCH
Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Date: 01/07/2016
Job Number: 151215COMSGE17

Administrative Information

Status ENGINEER PROPOSAL
Call Sign E060224
Licensee Code S00876
Licensee Name Shell Communications Inc

Site Information **FOURCHON, LA**

Venue Name
Latitude (NAD 83) 29° 7' 22.8" N
Longitude (NAD 83) 90° 11' 55.4" W
Climate Zone A
Rain Zone 1
Ground Elevation (AMSL) 1.01 m / 3.3 ft

Link Information

Satellite Type Geostationary
Mode TR - Transmit-Receive
Modulation Digital
Satellite Arc 60° W to 143° West Longitude
Azimuth Range 129.9° to 249.7°
Corresponding Elevation Angles 42.6° / 23.9°
Antenna Centerline (AGL) 61.8 m / 202.8 ft

Antenna Information

Receive - FCC32

Transmit - FCC32

Manufacturer	Andrew	Andrew	
Model	243	243	
Gain / Diameter	38.5 dBi / 2.4 m	42.0 dBi / 2.4 m	
3-dB / 15-dB Beamwidth	1.00° / 2.00°	1.50° / 3.00°	
Max Available RF Power (dBW/4 kHz)		-19.6	
(dBW/MHz)		4.4	
Maximum EIRP (dBW/4 kHz)		22.4	
(dBW/MHz)		46.4	
Interference Objectives:	Long Term	-156.0 dBW/MHz 20%	-151.8 dBW/4 kHz 20%
	Short Term	-146.0 dBW/MHz 0.01%	-130.8 dBW/4 kHz 0.0025%

Frequency Information

Receive 4.0 GHz

Transmit 6.1 GHz

Emission / Frequency Range (MHz)	1M81G7W - 4M30G7W / 3700.0 - 4200.0	1M81G7W - 4M30G7W / 5925.0 - 6018.0
		1M81G7W - 4M30G7W / 6051.0 - 6270.0
		1M81G7W - 4M30G7W / 6303.0 - 6425.0

Max Great Circle Coordination Distance	338.0 km / 210.0 mi	136.3 km / 84.7 mi
Precipitation Scatter Contour Radius	570.8 km / 354.6 mi	100.0 km / 62.1 mi

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Coordination Values

FOURCHON, LA

Licensee Name	Shell Communications Inc				
Latitude (NAD 83)	29° 7' 22.8" N				
Longitude (NAD 83)	90° 11' 55.4" W				
Ground Elevation (AMSL)	1.01 m / 3.3 ft				
Antenna Centerline (AGL)	61.8 m / 202.8 ft				
Antenna Model	Andrew 2.4 Meter				
Antenna Mode	Receive 4.0 GHz		Transmit 6.1 GHz		
Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-151.8 dBW/4 kHz	20%
	Short Term	-146.0 dBW/MHz	0.01%	-130.8 dBW/4 kHz	0.0025%
Max Available RF Power					-19.6 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	108.47	-10.00	285.28	-10.00	117.58
5	0.00	112.97	-10.00	285.28	-10.00	117.58
10	0.00	111.52	-10.00	285.28	-10.00	117.58
15	0.00	108.05	-10.00	285.28	-10.00	117.58
20	0.00	104.51	-10.00	285.28	-10.00	117.58
25	0.00	100.91	-10.00	285.28	-10.00	117.58
30	0.00	97.27	-10.00	285.28	-10.00	117.58
35	0.00	93.61	-10.00	285.28	-10.00	117.58
40	0.00	89.93	-10.00	285.28	-10.00	117.58
45	0.00	86.26	-10.00	285.28	-10.00	117.58
50	0.00	82.59	-10.00	285.28	-10.00	117.58
55	0.00	78.96	-10.00	285.28	-10.00	117.58
60	0.00	75.36	-10.00	285.28	-10.00	117.58
65	0.00	71.82	-10.00	285.28	-10.00	117.58
70	0.00	68.36	-10.00	285.28	-10.00	117.58
75	0.00	64.98	-10.00	285.28	-10.00	117.58
80	0.00	61.72	-10.00	285.28	-10.00	117.58
85	0.00	58.60	-10.00	285.28	-10.00	117.58
90	0.00	55.65	-10.00	285.28	-10.00	117.58
95	0.00	52.90	-10.00	285.28	-10.00	117.58
100	0.00	50.38	-10.00	285.28	-10.00	117.58
105	0.00	48.15	-10.00	285.28	-10.00	117.58
110	0.00	46.24	-9.62	287.68	-9.62	118.55
115	0.00	44.70	-9.26	290.05	-9.26	119.50
120	0.00	43.56	-8.98	291.87	-8.98	120.22
125	0.00	42.87	-8.80	293.01	-8.80	120.67
130	0.00	42.64	-8.75	293.38	-8.75	120.82
135	0.00	42.89	-8.81	292.98	-8.81	120.66
140	0.00	43.60	-8.99	291.81	-8.99	120.20
145	0.00	44.75	-9.27	289.97	-9.27	119.47
150	0.00	46.30	-9.64	287.58	-9.64	118.51
155	0.00	48.23	-10.00	285.28	-10.00	117.58
160	0.00	50.47	-10.00	285.28	-10.00	117.58
165	0.00	52.78	-10.00	285.28	-10.00	117.58
170	0.00	54.54	-10.00	285.28	-10.00	117.58
175	0.00	55.65	-10.00	285.28	-10.00	117.58
180	0.00	56.03	-10.00	285.28	-10.00	117.58
185	0.00	55.65	-10.00	285.28	-10.00	117.58

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Coordination Values

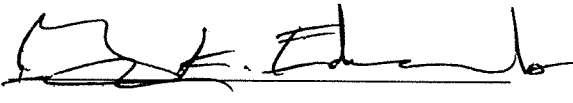
FOURCHON, LA

Licensee Name	Shell Communications Inc		
Latitude (NAD 83)	29° 7' 22.8" N		
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Interference Objectives: Long Term	-156.0 dBW/MHz	20%	-151.8 dBW/4 kHz
Short Term	-146.0 dBW/MHz	0.01%	-130.8 dBW/4 kHz
Max Available RF Power			-19.6 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	54.54	-10.00	285.28	-10.00	117.58
195	0.00	52.77	-10.00	285.28	-10.00	117.58
200	0.00	50.45	-10.00	285.28	-10.00	117.58
205	0.00	47.67	-9.96	285.56	-9.96	117.69
210	0.00	44.53	-9.22	290.31	-9.22	119.60
215	0.00	41.11	-8.35	296.00	-8.35	121.86
220	0.00	37.46	-7.34	302.76	-7.34	124.50
225	0.00	33.88	-6.25	310.27	-6.25	127.38
230	0.00	30.64	-5.16	318.56	-5.16	130.28
235	0.00	27.87	-4.13	325.91	-4.13	133.03
240	0.00	25.73	-3.26	332.22	-3.26	134.14
245	0.00	24.37	-2.67	336.53	-2.67	135.78
250	0.00	23.94	-2.48	337.97	-2.48	136.33
255	0.00	24.48	-2.72	336.19	-2.72	135.65
260	0.00	25.93	-3.34	331.60	-3.34	133.91
265	0.00	28.15	-4.24	325.13	-4.24	132.74
270	0.00	30.98	-5.28	317.72	-5.28	129.96
275	0.00	34.26	-6.37	309.42	-6.37	127.06
280	0.00	37.88	-7.46	301.96	-7.46	124.18
285	0.00	41.74	-8.51	294.91	-8.51	121.43
290	0.00	45.79	-9.52	288.36	-9.52	118.82
295	0.00	49.97	-10.00	285.28	-10.00	117.58
300	0.00	54.26	-10.00	285.28	-10.00	117.58
305	0.00	58.63	-10.00	285.28	-10.00	117.58
310	0.00	63.05	-10.00	285.28	-10.00	117.58
315	0.00	67.53	-10.00	285.28	-10.00	117.58
320	0.00	72.03	-10.00	285.28	-10.00	117.58
325	0.00	76.57	-10.00	285.28	-10.00	117.58
330	0.00	81.12	-10.00	285.28	-10.00	117.58
335	0.00	85.68	-10.00	285.28	-10.00	117.58
340	0.00	90.25	-10.00	285.28	-10.00	117.58
345	0.00	94.82	-10.00	285.28	-10.00	117.58
350	0.00	99.38	-10.00	285.28	-10.00	117.58
355	0.00	103.93	-10.00	285.28	-10.00	117.58

5. CERTIFICATION

I HEREBY CERTIFY THAT I AM THE TECHNICALLY QUALIFIED PERSON RESPONSIBLE FOR THE PREPARATION OF THE FREQUENCY COORDINATION DATA CONTAINED IN THIS APPLICATION, THAT I AM FAMILIAR WITH PARTS 101 AND 25 OF THE FCC RULES AND REGULATIONS, THAT I HAVE EITHER PREPARED OR REVIEWED THE FREQUENCY COORDINATION DATA SUBMITTED WITH THIS APPLICATION, AND THAT IT IS COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BY: 

Gary K. Edwards
Senior Manager
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147

DATED: January 07, 2016

**Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554**

In the Matter of

Application of Shell Communications, Inc.)	
for a Special Temporary Authorization to)	File No:
Operate a Fixed Earth Station Terminal with)	
Permitted List Satellites in the 5.925-6.425)	Call Sign: E060224
GHz (Earth-to-space) and 3.7-4.2 GHz)	
(space-to-Earth) Frequency Bands)	

Application for Special Temporary Authorization

Pursuant to Section 25.120 of the Rules and Regulations of the Federal Communications Commission (the "Commission Rules"), 47 C.F.R. § 25.120, Shell Communications, Inc. ("Shell Communications") seeks a special temporary authorization ("STA") to operate its licensed Andrew 243 C-band terminal on the Fourchon – an offshore oil platform located in the Gulf of Mexico (29° 7' 22.8" N, 90° 11' 55.4" W) – while communicating with satellites on the Commission's Permitted Space Station List ("Permitted List"). Presently under the license, the terminal is authorized to communicate with certain satellite points of communication in the C-band.

The requested STA will afford Shell Communications short-term operating authority during the pendency of its concurrently filed modification application¹ to add Permitted List authority. Grant of the requested STA is essential to ensure that there is no lapse in essential satellite-based services to the oil platform in the context of an upcoming change in serving satellite capacity scheduled for late January/early February 2016. Shell Communications seeks an STA for a period of up to 60 days, commencing no later than January 20, 2016.

¹ See Application of Shell Communications, Inc. for Modification of Fixed Earth Station License to Add Permitted List Authority, Call Sign E060224 ("*Modification Application*").

I. DISCUSSION

Shell Communications requests authority to operate the earth station terminal with U.S. licensed satellite and non-U.S. licensed satellites on the Commission's Permitted Space Station List. Accordingly, Shell Communications also seeks to expand the range of satellite arc currently in the license to 60° W.L. to 143° W.L., which will slightly modify the maximum EIRP spectral density towards the horizon value, as well as the azimuth and elevation angles, as indicated in the attached modification application. Shell Communications certifies that the remaining technical information in its earth station license and associated application² remains unchanged.

A frequency coordination analysis was conducted by Comsearch and demonstrates that Shell Communications may operate the Andrew 243 earth station terminal over the proposed arc range without causing harmful interference. Comsearch sent a coordination notice to existing licensees in the band within the relevant coordination distances and no objections have been received from incumbent licensees. Accordingly, Shell Communications' proposed operations are fully compatible with other FCC-licensed operations.³ The requested STA will serve the public interest by enhancing Shell Communications' satellite communication capabilities on the Fourchon in the near-term, thereby improving the critical services it provides to crew members for business and emergency operations.

III. EXPEDITED CONSIDERATION

Shell Communications respectfully requests expedited processing of this STA request under Section 25.120. Section 25.120(a) provides that STA requests should be filed at least three working days prior to the date of commencement of the proposed operations. Here, Shell Communications seeks to commence operations on or after January 20, 2016.

Pursuant to Section 25.120(b)(3), Shell Communications is filing for 60-day STA

² See File No. SES-MFS-20081208-01548 (Call Sign E060224).

³ Please note that potentially affected licenses may respond to Comsearch by January 19, 2016, but Comsearch's analysis suggests that there will be no impact to such licensees by the operations proposed herein. To the extent that a potentially affected licensee contacts Comsearch regarding the proposed operations, Shell will inform the Commission and adjust its operations accordingly to address the concerns of the relevant licensees.

to ensure proper short-term authorizations during the pendency of its earth station modification application. Section 25.120(b)(3) provides that the Commission may grant STA for a period not to exceed 60 days if it has not placed the STA request on public notice and the applicant plans to file a request for regular authority for the service. Here, Shell Communications has concurrently filed a request to modify its license to add Permitted List authority.⁴

Due to a change in satellite capacity, Shell Communications requires near-term use of Permitted List satellites to accommodate the capacity adjustment and ensure there is no lapse in vital satellite communication services. Given the near-term commencement of the proposed operations and that they have been fully coordinated, expedited processing of this STA request is warranted and will ensure properly authorized temporary operations while the Commission reviews Shell Communications' modification application.

Grant of the requested authority will serve the public interest by allowing the near-term use of the terminal on the Fourchon to communicate with Permitted List satellites, which will greatly benefit employees and personnel and accelerate the expansion of C-band satellite communications services. Accordingly, Shell Communications respectfully submits that the public interest will be served by grant of the requested STA no later than January 20, 2016.

IV. CONCLUSION

In view of the foregoing, Shell Communications respectfully requests that the Commission grant its 60-day STA request to allow the Andrew 243 terminal to communicate with satellites on the Permitted List in the C-band on the Fourchon no later than January 20, 2016.

⁴ See *Modification Application*.