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File Number: SES-MFS-20160112-00004

**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 Permitted List as POC (E050335)

1-8. Legal Name of Applicant

Name:	Anadarko Petroleum Corporation	Phone Number:	202-434-4100
DBA Name:		Fax Number:	202-434-4646
Street:	Suite 500 West 1001 G Street, NW	E-Mail:	telecomlicensing@khlaw.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20001 -
Attention:			

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:	22152-
Attention:	Mr. Carlos M. 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  
 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.

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).

- Governmental Entity  Noncommercial 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:

(a) Call sign of station:  
E050335

19. If this filing is an amendment to a pending application enter both fields, if this filing is a modification please enter only the file number:

(a) Date pending application was filed: (b) File number:

## 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 only one.

- Common Carrier  Non-Common Carrier

22. If earth station applicant, check all that apply.

- Using U.S. licensed satellites  
 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 & countries)  
 j -- authorization to change Points of Communication (satellites & countries)  
 k -- authorization for facilities for which environmental assessment and radiation hazard reporting is required  
 l -- 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 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

- Yes  No

applications for new transmitting facilities, major modifications, or major amendments.

**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?	<input type="radio"/> Yes <input checked="" type="radio"/> No
30. Is the applicant an alien or the representative of an alien?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> 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?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> 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?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> 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.	<input type="radio"/> Yes <input checked="" type="radio"/> 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 explanation of circumstances.	<input type="radio"/> Yes <input checked="" type="radio"/> 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 explanation of circumstances.	<input type="radio"/> Yes <input checked="" type="radio"/> 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	<input type="radio"/> Yes <input checked="" type="radio"/> 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 exhibit, an explanation of the circumstances.	<input type="radio"/> Yes <input checked="" type="radio"/> 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. <i>See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.</i>	<input checked="" type="radio"/> Yes <input type="radio"/> 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.	<input checked="" type="radio"/> Yes <input type="radio"/> 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? <b>Permitted List</b>	

43. Description. (Summarize the nature of the application and the services to be provided). Anadarko seeks to modify its existing C-band fixed earth station license (Call Sign E050335) by adding 'Permitted List' as an authorized point of communication. (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.	<input checked="" type="radio"/> 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.	<input type="radio"/> 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.

C

Coordination Report

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**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
- Unincorporated Association
- Partnership
- Corporation
- Governmental Entity
- Other (please specify)

45. Name of Person Signing  
Peter DeHart

46. Title of Person Signing  
Engineering Lead

**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 Station Site

E1: Site Identifier:	Independence Hub	E5. Call Sign:	E050335
E2: Contact Name	NOC	E6. Phone Number:	832-668-2775
E3. Street:	Gulf of Mexico	E7. City:	
E4. State		E8. County:	
E10. Area of Operation:		E9. Zip Code	Gulf of Mexico
E11. Latitude:	28 ° 5 ' 5.2 " N		
E12. Longitude:	87 ° 59 ' 9.8 " W		
E13. Lat/Lon Coordinates are:		<input type="radio"/> NAD-27	<input checked="" type="radio"/> NAD-83 <input type="radio"/> 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.	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> 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?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
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E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes	<input type="radio"/> No
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E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input checked="" type="radio"/> Yes	<input type="radio"/> No
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E19. Is coordination with another country required? If YES, attach the name of the country(ies) and	
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plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>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.</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No

**POINTS OF COMMUNICATION**

Satellite Name: PERMITTED LIST    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: Independence Hub	
E26. Common Name:	E27. Country: USA

**ANTENNA**

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)
Independence Hub	A1	1	Sea Tel	9797	2.4	0.0 dBi at

E28. Antenna Id	E33/34. Diameter Minor/Major(meters)	E35. Above Ground Level(meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level(meters)	E38. Total Input Power at antenna flange(Watts)	E39. Maximum Antenna Height Above Rooftop(meters)	E40. Total EIRP for al carriers(dBW)
A1	0.0/0.0	35.1	35.1	0.0	6.84	0.0	50.05

**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)
E50. Modulation and Services						

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western 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)
A1	Geostationary	3700 4200	60.0/143.0	131.5	45.0	251.8	22.3	0.0
	Geostationary	5925 6425	60.0/143.0	131.5	45.0	251.8	22.3	-23.86

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign E030253 <i>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.</i>	E66. Phone Number 832-668-2775		
E62. Street Address 4400 S. Sam Houston Pkwy. E			
E63. City Houston	E68. County Harris	E67/68. State/Country TX/ USA	E64. Zip Code 77046

**FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT**

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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.

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

In the Matter of

Application of Anadarko Petroleum Corporation for Modification of a Fixed Earth Station License to add Permitted List Authority	) ) ) ) ) )	File No:  Call Sign: E050335
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**Earth Station License Modification Application**

By this application, Anadarko Petroleum Corporation (“Anadarko”) seeks to modify its existing C-band fixed earth station license (Call Sign E050335) by adding “Permitted List” as an authorized point of communication for the earth station terminal. The subject terminal – a Sea Tel Model 9797– is located on the Independence Hub, an offshore oil platform located in the Gulf of Mexico (28° 5’ 5.2" N, 87° 59’ 9.8" W). Presently under the license, the terminal is authorized to communicate with certain satellite points of communication and this modification seeks to expand communications to include satellites on the Commission’s Permitted Space Station List. The requested modification will afford Anadarko additional operational flexibility and allow it to obtain more reliable and cost-effective satellite services on the offshore platform, where reliable broadband connectivity is critical for operational, safety and other reasons.

In seeking Permitted List authority, Anadarko 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, Anadarko also seeks to widen the range of satellite arc currently in the license to 60° W.L. to 143° W.L., which will slightly modify the maximum EIRP towards the horizon value, as well as the azimuth and elevation angles, as indicated in the Schedule B. Anadarko certifies that the remaining technical information in its earth station license and associated application<sup>1</sup> remains unchanged.

A frequency coordination analysis was conducted by Comsearch and

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<sup>1</sup> See File No. SES-MOD-20130114-00045 (Call Sign E050335).

demonstrates that Anadarko may operate the Sea Tel 9797 earth station terminal over the proposed satellite arc range and will not cause harmful interference. Comsearch sent a coordination notice to existing licensees in the band within relevant coordination distances and no objections have been received from incumbent licensees. Accordingly, Anadarko's proposed operations are fully compatible with other FCC-licensed operations.<sup>2</sup> The requested modification will serve the public interest by enhancing Anadarko's satellite communication capabilities on the Independence Hub, thereby improving the critical services its provides to crew members for business and emergency operations.

Anadarko respectfully requests that the Commission grant its application to modify its existing C-band earth station license, Call Sign E050335, by adding Permitted List authority to allow the terminal to communicate with satellites on the Commission's Permitted Space Station List.

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<sup>2</sup> 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, Anadarko will inform the Commission and amend its application to the extent necessary to address the concerns of the affected licensees.