

Commercial Space Transportation License

License Number: LLS 14-090 (Rev 2)

SPACE EXPLORATION TECHNOLOGIES

is authorized, subject to the provisions of 51 USC Subtitle V, ch. 509, and the orders, rules, and regulations issued under it, to conduct a launch.

General. Space Exploration Technologies is authorized to conduct:

(a) Six flights with the Falcon 9 Version 1.2 launch vehicle from Complex 40 at Cape Canaveral Air Force Station (CCAFS) with each flight transporting one of the following payloads to geosynchronous transfer orbit:

- i. SES-9 satellite
- ii. JCSAT-14 satellite
- iii. ABS/Eutelsat-2 satellite
- iv. AMOS-6 satellite
- v. Thaicom-8 satellite
- vi. JCSAT-16 satellite; and

(b) pre-flight ground operations at CCAFS associated with the flights, as identified in paragraph (a) of this license, of the Falcon 9 Version 1.2 launch vehicle.

This license is granted subject to the terms, conditions, and limitations set forth in licensing orders A, B, C, and D and any subsequent orders issued by the Office of Commercial Space Transportation.

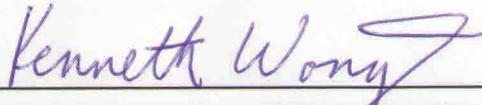
The licensee shall at all times conduct its operations in accordance with the regulations prescribed by the Office of Commercial Space Transportation for the activities authorized by this license.



US Department
of Transportation
Federal Aviation
Administration

800 Independence Ave., S.W.
Washington, D.C. 20591

Original Issued: May 21, 2014
Rev 2 Issued: January 21, 2016
Rev 2 Effective: January 21, 2016



Manager, Licensing and Evaluation Division

Revision History:

Original License - Issued May 21, 2014

Revision 1 - Issued October 27, 2014

- 1) Paragraph (a) changed three flights to five flights to add SES-9 and ABS/Eutelsat-1 missions to license.

Revision 2 - Issued January 21, 2016

- 1) Paragraph (a) changed five flights to six flights to add JCSAT-14, ABS/Eutelsat-2, AMOS-6, Thaicom-8, and JCSAT-16 missions and remove references to four completed missions.
- 2) Changed Falcon 9 launch vehicle version from 1.1 to 1.2.

License Order No. LLS 14-090A (Rev 3)

OFFICE OF
COMMERCIAL SPACE TRANSPORTATION
LICENSE ORDER REGARDING

LAUNCH

AUTHORIZED BY LICENSE NO. LLS 14-090
ISSUED TO

SPACE EXPLORATION TECHNOLOGIES

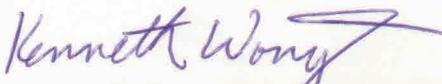
1. Authority: This Order is issued to Space Exploration Technologies, referred to as SpaceX, under 51 U.S.C. subtitle V, chapter 509, and 14 C.F.R. Ch. III.
2. Purpose: This Order modifies License No. LLS 14-090 originally issued May 21, 2014, by the Federal Aviation Administration's Office of Commercial Space Transportation, authorizing SpaceX to conduct the launch of a Falcon 9 Version 1.2 launch vehicle; and prescribes as conditions to License No. LLS 14-090 certain requirements applicable to the launch.
3. Definitions: For purposes of License No. LLS 14-090 and any orders issued by the FAA pertaining to activities covered by License No. LLS 14-090:
 - (a) "Flight" shall mean the flight of a Falcon 9 Version 1.2 launch vehicle commencing with ignition of the first stage from Cape Canaveral Air Force Station (CCAFS) and transporting the SES-9 satellite, JCSAT-14 satellite, ABS/Eutelsat-2 satellite, AMOS-6 satellite, Thaicom-8 satellite, and JCSAT-16 satellite to geosynchronous transfer orbit. Flight includes landing of the Falcon 9 Version 1.2 first stage as indicated in the license application. A flight is concluded upon SpaceX's last exercise of control over the Falcon 9 Version 1.2 launch vehicle, including the safing of Falcon 9 Version 1.2 launch vehicle stages or components that reach Earth orbit following separation of the payloads.
 - (b) "Pre-flight ground operations" shall mean SpaceX's pre-flight preparations of the Falcon 9 launch vehicle

License Order No. LLS 14-090A (Rev 3)

at CCAFS, beginning with the arrival of the Falcon 9 Version 1.2 launch vehicle at CCAFS.

- 4. Special Reporting Requirements: In addition to all applicable reporting requirements under 14 C.F.R. Ch. III, SpaceX must identify any anomaly occurring on a prior Falcon 9 launch that could be material to public safety, no less than 15 days before any flight conducted under this license, unless the requirement of 14 C.F.R. § 417.25(a) had already been satisfied.
- 5. License Term: License No. LLS 14-090 terminates upon completion of the launch authorized by the license, or on December 31, 2016, whichever occurs first.

OFFICE OF COMMERCIAL SPACE TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

By: 
 Kenneth Wong, Manager
 Licensing and Evaluation Division

Original Issued: May 21, 2014
 Rev 3 Issued: January 21, 2016
 Rev 3 Effective: January 21, 2016

Revision History:

Original License Order A - Issued May 21, 2014

Revision 1 - Issued October 27, 2014

- 1) Paragraph (2) replaced "issued concurrently" with "originally issued on May 21, 2014", and changed authorized launch count from three to five.
- 2) Paragraph (3) added SES-9 and ABS/Eutelsat-1 missions to license.

Revision 2 - Issued December 31, 2015

- 1) Paragraph (5) Extended license expiration date from "December 31, 2015" to "December 31, 2016"

Revision 3 - Issued January 21, 2016

- 1) Paragraph (3) added five missions to license, removed references to four completed missions, and added that flight includes landing of the first stage as indicated in the license application.
- 2) Changed Falcon 9 launch vehicle version from 1.1 to 1.2.

License Order No. LLS 14-090B (Rev 2)

OFFICE OF
COMMERCIAL SPACE TRANSPORTATION
LICENSE ORDER REGARDING

FLIGHT

AUTHORIZED BY LICENSE NO. LLS 14-090
ISSUED TO

SPACE EXPLORATION TECHNOLOGIES

1. Authority: This Order is issued to Space Exploration Technologies, referred to as SpaceX, under 51 U.S.C. subtitle V, chapter 509, and 14 C.F.R. Ch. III.
2. Purpose: This Order modifies License No. LLS 14-090 originally issued on May 21, 2014, by the Federal Aviation Administration's Office of Commercial Space Transportation, and authorizes SpaceX to conduct the six launches of a Falcon 9 Version 1.2 launch vehicle; and prescribes as conditions to License No. LLS 14-090 certain requirements applicable to the authorization to conduct the flight of a launch vehicle.
3. Authorization: SpaceX is authorized to conduct six flights of launch vehicles:
 - (a) Using a Falcon 9 Version 1.2 launch vehicle;
 - (b) From Cape Canaveral Air Force Station, Florida;
 - (c) On an azimuth of 90 degrees;
 - (d) Transporting to geosynchronous transfer orbit the following satellites on separate flights: SES-9, JCSAT-14, ABS/Eutelsat-2, AMOS-6, Thaicom-8, and JCSAT-16; and
 - (e) According to the launch vehicle, launch vehicle systems, and safety management program represented in the SpaceX application as of the date of this order, and any amendments to the license application approved by the FAA, in writing.

OFFICE OF COMMERCIAL SPACE TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

By: *Kenneth Wong*
Kenneth Wong, Manager
Licensing and Evaluation Division

Original Issued: May 21, 2014
Rev 2 Issued: January 21, 2016
Rev 2 Effective: January 21, 2016

Revision History:

Original License Order B - Issued May 21, 2014

Revision 1 - Issued October 27, 2014

- 1) Paragraph (2) replaced "issued concurrently" with "originally issued on May 21, 2014", and changed authorized launch count from three to five.
- 2) Paragraph (3) added SES-9 and ABS/Eutelsat-1 missions to license.

Revision 2 - Issued January 21, 2016

- 1) Paragraph (2) changed number of missions from five to six.
- 2) Paragraph (2) and (3) Changed Falcon 9 launch vehicle version from 1.1 to 1.2.
- 3) Paragraph (3) added five missions to license and removed references to four completed missions.

License Order No. LLS 14-090C (Rev 2)

OFFICE OF
COMMERCIAL SPACE TRANSPORTATION
LICENSE ORDER REGARDING

PRE-FLIGHT GROUND OPERATIONS

AUTHORIZED BY LICENSE NO. LLS 14-090
ISSUED TO

SPACE EXPLORATION TECHNOLOGIES

1. Authority: This Order is issued to Space Exploration Technologies, referred to as SpaceX, under 51 U.S.C. subtitle V, chapter 509, and 14 C.F.R. Ch. III.
2. Purpose: This Order modifies License No. LLS 14-090 originally issued on May 21, 2014, by the Federal Aviation Administration's Office of Commercial Space Transportation, authorizing SpaceX to conduct six launches of a Falcon 9 Version 1.2 launch vehicle; and prescribes as conditions to License No. LLS 14-090 certain requirements applicable to the authorization to conduct pre-flight ground operations.
3. Authorization: SpaceX is authorized to conduct pre-flight ground operations at CCAFS associated with the launches of the SES-9, JCSAT-14, ABS/Eutelsat-2, AMOS-6, Thaicom-8, and JCSAT-16 satellites on Falcon 9 Version 1.2 launch vehicles.

OFFICE OF COMMERCIAL SPACE TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

By: Kenneth Wong
Kenneth Wong, Manager
Licensing and Evaluation Division

Original Issued: May 21, 2014
Rev 2 Issued: January 21, 2016
Rev 2 Effective: January 21, 2016

Revision History:

Original License Order C - Issued May 21, 2014

Revision 1 - Issued October 27, 2014

- 1) Paragraph (2) replaced "issued concurrently" with "originally issued on May 21, 2014", and changed authorized launch count from three to five.
- 2) Paragraph (3) added SES-9 and ABS/Eutelsat-1 missions to license.

Revision 2 - Issued January 21, 2016

- 1) Paragraph (2) changed number of missions from five to six.
- 2) Paragraph (3) Changed Falcon 9 launch vehicle version from 1.1 to 1.2.
- 3) Paragraph (3) added five missions to license and removed references to four completed missions.

OFFICE OF
COMMERCIAL SPACE TRANSPORTATION
LICENSE ORDER REGARDING

FINANCIAL RESPONSIBILITY REQUIREMENTS

UNDER LICENSE NO. LLS 14-090
ISSUED TO

SPACE EXPLORATION TECHNOLOGIES

1. Authority: This Order is issued to Space Exploration Technologies, referred to as SpaceX, under 51 U.S.C. Subtitle V, chapter 509, and 14 C.F.R. part 440.
2. Purpose: This Order modifies License No. LLS 14-090 originally issued on May 21, 2014, by the Federal Aviation Administration's Office of Commercial Space Transportation, by prescribing financial responsibility requirements for licensed launch activities in accordance with 14 C.F.R. part 440.
3. Definitions: For purposes of this Order, "licensed launch activities" shall mean activities authorized by the License. Other terms used in this Order are defined in accordance with 14 C.F.R. § 440.3.
4. Liability Insurance: SpaceX shall maintain a policy or policies of liability insurance (or otherwise demonstrate financial responsibility) in accordance with 14 C.F.R. § 440.9(b) in the amount of:
 - (a) Thirty Million Dollars (\$30,000,000) for covered claims resulting from flight of the Falcon 9 Version 1.2 launch vehicle from Cape Canaveral Air Force Station (CCAFS).
 - (b) Twelve Million Dollars (\$12,000,000) for covered claims resulting from pre-flight operations performed at CCAFS.

5. Government Property Insurance: SpaceX shall maintain a policy or policies of insurance (or otherwise demonstrate financial responsibility) in accordance with 14 C.F.R § 440.9(d) in the amount of:
- (a) One Hundred Million Dollars (\$100,000,000) for covered claims resulting from flight of the Falcon 9 Version 1.2 launch vehicle from CCAFS.
 - (b) Thirteen Million Dollars (\$13,000,000) for covered claims resulting from pre-flight operations performed at CCAFS.
6. Covered property includes all property owned, leased, or occupied by, or within the care, custody, or control of, the United States and its agencies, and its contractors and subcontractors involved in licensed launch activities, at CCAFS.

OFFICE OF COMMERCIAL SPACE TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

By: Kenneth Wong
Kenneth Wong, Manager
Licensing and Evaluation Division

Originally Issued: May 21, 2014
Rev 1 Issued: January 21, 2016
Rev 1 Effective: January 21, 2016

Revision History:

Original License Order D - Issued May 21, 2014
Revision 1 - Issued January 21, 2016

- 1) Paragraph (2) replaced "issued concurrently" with "originally issued on May 21, 2014"
- 2) Paragraphs 4(a) and 5 (a), changed Falcon 9 launch vehicle version from 1.1 to 1.2.
- 3) Paragraph 4(a) changed liability insurance value for flight from \$22,500,000 to \$30,000,000.