

---

# Commercial Space Transportation License

License Number: LLS 17-097

---

## 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:

- (i) A flight of the Falcon 9 Version 1.2 launch vehicle from Launch Complex 39A at Kennedy Space Center (KSC) transporting the EchoStar-23 satellite to a geosynchronous transfer orbit; and
- (ii) pre-flight ground operations at KSC associated with the flight, as identified in paragraph (i) 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

**Issued: March 1, 2017**

**Effective: March 1, 2017**

A handwritten signature in black ink that reads "Kenneth Wong". The signature is written in a cursive style with a long horizontal stroke at the end.  

---

**Manager, Licensing and Evaluation Division**

OFFICE OF  
COMMERCIAL SPACE TRANSPORTATION  
LICENSE ORDER REGARDING

**LAUNCH**

AUTHORIZED BY LICENSE NO. LLS 17-097  
ISSUED TO

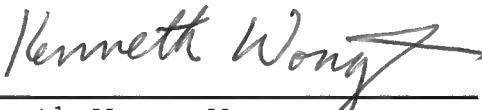
SPACE EXPLORATION TECHNOLOGIES

---

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 17-097 issued concurrently 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 17-097 certain requirements applicable to the launch.
3. Definitions: For purposes of License No. LLS 17-097 and any orders issued by the FAA pertaining to activities covered by License No. LLS 17-097:
  - (i) "Flight" shall mean the flight of a Falcon 9 Version 1.2 launch vehicle, commencing with ignition of the first stage from Kennedy Space Center (KSC) and transporting the EchoStar-23 satellite to a geosynchronous transfer orbit. Flight is concluded upon SpaceX's last exercise of control over the Falcon 9 Version 1.2 vehicle, including the safing of the Falcon 9 Version 1.2 vehicle stage or components that reach Earth orbit, following separation of the payload.
  - (ii) "Pre-flight ground operations" shall mean SpaceX's pre-flight preparations of the Falcon 9 Version 1.2 launch vehicle at KSC, beginning with the arrival of the Falcon 9 Version 1.2 vehicle at KSC.

4. License Term: The license terminates upon completion of the launch authorized by the license, or one (1) year from the effective date of this license order, whichever comes first.

OFFICE OF COMMERCIAL SPACE TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

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

Issued: March 1, 2017  
Effective: March 1, 2017

**License Order No. LLS 17-097B**

OFFICE OF  
COMMERCIAL SPACE TRANSPORTATION  
LICENSE ORDER REGARDING

**FLIGHT**


AUTHORIZED BY LICENSE NO. LLS 17-097  
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 17-097 issued concurrently 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 17-097 certain requirements applicable to the authorization to conduct the flight of this launch vehicle.
3. Authorization: SpaceX is authorized to conduct a flight of the launch vehicle:
  - (a) Using a Falcon 9 Version 1.2 launch vehicle;
  - (b) From Launch Complex 39A at Kennedy Space Center, Florida;
  - (c) On a nominal launch azimuth of 90 degrees;
  - (d) Transporting the EchoStar-23 satellite to a geosynchronous transfer orbit; 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, Manager  
Licensing and Evaluation Division

Issued: March 1, 2017

Effective: March 1, 2017

OFFICE OF  
COMMERCIAL SPACE TRANSPORTATION  
LICENSE ORDER REGARDING

**PRE-FLIGHT GROUND OPERATIONS**


AUTHORIZED BY LICENSE NO. LLS 17-097  
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 17-097 issued concurrently 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 17-097 certain requirements applicable to the authorization to conduct pre-flight ground operations.
3. Authorization: SpaceX is authorized to conduct pre-flight ground operations at Kennedy Space Center (KSC) associated with the launch of the EchoStar-23 satellite on a Falcon 9 Version 1.2 launch vehicle.

OFFICE OF COMMERCIAL SPACE TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

By:   
Kenneth Wong, Manager  
Licensing and Evaluation Division

Issued: March 1, 2017  
Effective: March 1, 2017

OFFICE OF  
COMMERCIAL SPACE TRANSPORTATION  
LICENSE ORDER REGARDING

**FINANCIAL RESPONSIBILITY REQUIREMENTS**

Under License No. LLS 17-097  
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 17-097 issued concurrently 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 Kennedy Space Center (KSC) and
  - (b) Twelve Million Dollars (\$12,000,000) for covered claims resulting from pre-flight operations performed at KSC.

License Order No. LLS 17-097D

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 KSC and
  - (b) Sixty-Three Million Dollars (\$63,000,000) for covered claims resulting from pre-flight operations performed at KSC.
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 KSC.

OFFICE OF COMMERCIAL SPACE TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

By:   
Kenneth Wong, Manager  
Licensing and Evaluation Division

Issued: March 1, 2017  
Effective: March 1, 2017