

Commercial Space Transportation License

License Number: LLS 20-119

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 and Dragon-2 launch vehicle from Launch Complex 39A at Kennedy Space Center (KSC), in support of the in-flight abort test and
- (ii) pre-flight ground operations at KSC associated with the flight, as identified in paragraph (i) of this license, of the Falcon 9 and Dragon-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: January 17, 2020

Effective: January 17, 2020

A handwritten signature in black ink that reads "Kenneth Wong".

Manager, Licensing and Evaluation Division

OFFICE OF
COMMERCIAL SPACE TRANSPORTATION
LICENSE ORDER REGARDING

LAUNCH

AUTHORIZED BY LICENSE NO. LLS 20-119
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 20-119 issued concurrently by the Federal Aviation Administration's Office of Commercial Space Transportation, authorizing SpaceX to conduct the launch of the Falcon 9 launch vehicle; and prescribes as conditions to License No. LLS 20-119 certain requirements applicable to the launch.

3. Definitions: For purposes of License No. LLS 20-119 and any orders issued by the FAA pertaining to activities covered by License No. LLS 20-119:
 - (i) "Flight" shall mean the flight of a Falcon 9 and Dragon-2 combined launch vehicle, commencing with ignition of the first stage from Kennedy Space Center (KSC) in support of the in-flight abort test. There are no payloads contained within the vehicle, and the flight will follow a suborbital trajectory. Flight includes separation of the Dragon-2 vehicle with splashdown in the ocean. The first stage booster will be expendable. The flight is concluded upon the safing of the Dragon-2 vehicle after splashdown.

 - (ii) "Pre-flight ground operations" shall mean SpaceX's pre-flight preparations of the Falcon 9 and Dragon-2 launch vehicle at KSC, beginning with the arrival of the Falcon 9 or Dragon-2 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: January 17, 2020

Effective: January 17, 2020

OFFICE OF
COMMERCIAL SPACE TRANSPORTATION
LICENSE ORDER REGARDING

FLIGHT

AUTHORIZED BY LICENSE NO. LLS 20-119
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 20-119 issued concurrently by the Federal Aviation Administration's Office of Commercial Space Transportation, authorizing SpaceX to conduct the launch of the Falcon 9 and Dragon-2 launch vehicle; and prescribes as conditions to License No. LLS 20-119 certain requirements applicable to the authorization to conduct the flight of this launch vehicle.

3. Authorization: SpaceX is authorized to conduct one flight of the launch vehicle:
 - (a) Using a Falcon 9 and Dragon-2 combined launch vehicle;
 - (b) From Launch Complex 39A at Kennedy Space Center, Florida;
 - (c) On a nominal suborbital trajectory following a 90 degree launch azimuth; and
 - (d) 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

Issued: January 17, 2020

Effective: January 17, 2020

OFFICE OF
COMMERCIAL SPACE TRANSPORTATION
LICENSE ORDER REGARDING

PRE-FLIGHT GROUND OPERATIONS

AUTHORIZED BY LICENSE NO. LLS 20-119
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 20-119 issued concurrently by the Federal Aviation Administration's Office of Commercial Space Transportation, authorizing SpaceX to conduct the launch of the combined Falcon 9 and Dragon-2 launch vehicle; and prescribes as conditions to License No. LLS 20-119 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 Falcon 9 and Dragon-2 launch vehicle.

OFFICE OF COMMERCIAL SPACE TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

By: 
Kenneth Wong, Manager
Licensing and Evaluation Division

Issued: January 17, 2020

Effective: January 17, 2020

OFFICE OF
COMMERCIAL SPACE TRANSPORTATION
LICENSE ORDER REGARDING

FINANCIAL RESPONSIBILITY REQUIREMENTS

Under License No. LLS 20-119
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 20-119 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) Fifty-Five Million Dollars (\$55,000,000) for covered claims resulting from flight of the Falcon 9 and Dragon-2 launch vehicle from Kennedy Space Center (KSC) during the in-flight abort mission; and
 - (b) Fifty-Four Million Dollars (\$54,000,000) for covered claims resulting from pre-flight operations performed at KSC.

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) Seventy-Two Million Dollars (\$72,000,000) for covered claims resulting from flight of the Falcon 9 and Dragon-2 launch vehicle from KSC during the in-flight abort mission; 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 CCAFS.

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FEDERAL AVIATION ADMINISTRATION

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