

# Commercial Space Transportation License

License Number: VOL 22-124 (Rev 1)

**ASTRA SPACE, INC.** is authorized, subject to the provisions of 51 USC Subtitle V, ch. 509, and the orders, rules, and regulations issued under it, to conduct launches.

General. Astra Space, Inc. is authorized to conduct:

(a) Flights of Rocket v3.3 launch vehicles from Space Florida Launch Complex 46 at Cape Canaveral Space Force Station (CCSFS), transporting payloads to low Earth orbit; and

(b) Pre-flight ground operations at Space Florida Launch Complex 46 associated with flights, as identified in paragraph (a) of this license, of the Astra Rocket v3.3 launch vehicles.

**This license is granted subject to the terms, conditions, and limitations set forth in licensing orders and any other written stipulations 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 On: January 4, 2022**

**Rev 1 Issued On: February 4, 2022**

**Rev 1 Effective On: February 4, 2022**

JAMES R REPCHECK Digitally signed by  
JAMES R REPCHECK  
Date: 2022.02.04  
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**Randy Repcheck, Manager  
Safety Authorization Division**

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**Revision History:**

Original License - January 4, 2022

Revision 1 - Issued February 4, 2022

- 1) In paragraph (a), replaced "RESERVED" with the following:  
"Flights of Rocket v3.3 launch vehicles from Space Florida Launch Complex 46 at Cape Canaveral Space Force Station (CCSFS), transporting payloads to a low Earth or geosynchronous transfer orbit; and"
- 2) In paragraph (b), replaced "Cape Canaveral Space Force Station" with "Space Florida Launch Complex 46", after "with" removed "the", after "flight" inserted "s, as identified in paragraph (a) of this license," and pluralize "vehicles"

**License Order No. VOL 22-124A (Rev 2)**

OFFICE OF  
COMMERCIAL SPACE TRANSPORTATION  
LICENSE ORDER REGARDING

**LAUNCH**

AUTHORIZED BY LICENSE NO. VOL 22-124  
ISSUED TO

ASTRA SPACE, INC.

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1. Authority: This Order is issued to Astra Space, Inc., referred to as Astra, under 51 U.S.C. subtitle V, chapter 509, and 14 C.F.R. Ch. III.
2. Purpose: This Order modifies License No. VOL 22-124 originally issued on January 4, 2022, by the Federal Aviation Administration's Office of Commercial Space Transportation, authorizing Astra to conduct launches of the Rocket v3.3 launch vehicle; and prescribes as conditions to License No. VOL 22-124 certain requirements applicable to the launches.
3. Definitions: For purposes of License No. VOL 22-124 and any orders issued by the FAA pertaining to activities covered by License No. VOL 22-124:
  - (a) "Flight" shall mean the flight of the Astra Rocket v3.3 launch vehicle commencing with ignition of the first stage from Space Florida Launch Complex 46 at Cape Canaveral Space Force Station on the same ground tracks and trajectories as presented in the license application for the purposes of transporting payloads to low Earth orbit. A flight is concluded upon Astra's last exercise of control over the vehicle, when Astra commands the safing of the upper stage, or after activities necessary to return the site to a safe condition, whichever occurs latest.
  - (b) "Pre-flight ground operations" shall mean Astra's pre-flight preparations of the Rocket v3.3 launch vehicle at Cape Canaveral Space Force Station, beginning after the launch vehicle arrives at the launch site and 'Rocket Mount' activity begins (strongback to cube

**License Order No. VOL 22-124A (Rev 2)**

mount, strongback click and leak checkout, etc). Pre-flight ground operations end before the vehicle is fueled with the intent for flight.

4. License Term: The License No. VOL 22-124 terminates five (5) years from January 4, 2022.
  
5. Authorization: Astra is authorized to conduct pre-flight ground operations and flights:
  - (a) Using a Rocket v3.3 launch vehicle;
  - (b) From Space Florida Launch Complex 46 at Cape Canaveral Space Force Station, Florida;
  - (c) On the ground track and trajectory presented in the license application;
  - (d) Transporting payloads to low Earth orbit as described in the license application; and
  - (e) According to the launch vehicle, launch vehicle systems, and safety management program represented in the Astra 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

**MICHELLE S MURRAY**

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MURRAY  
Date: 2022.06.10 15:57:36 -04'00'

By: \_\_\_\_\_

Michelle Murray, Manager  
Safety Authorization Division

Original Issued On: January 4, 2022  
Rev 2 Issued On: June 10, 2022  
Rev 2 Effective On: June 10, 2022

## License Order No. VOL 22-124A (Rev 2)

### Revision History:

Original License Order Issued - January 4, 2022

Revision 1 - Issued - February 4, 2022

- 1) In paragraph 2, replaced "issued concurrently" with "originally issued on February 10, 2017."
- 2) In paragraph 3(a), replaced "an Astra launch vehicle" with "the Astra Rocket v3.3 launch vehicle" and "Space Launch Complex 46" with "Space Florida Launch Complex 46"
- 3) In paragraph 5, after "ground operations", add "and flights"
- 4) In paragraph 5(b), added "Space Florida Launch Complex 46 at" before "Cape Canaveral Space Force Station"
- 5) In paragraph 5(c), replaced "RESERVED" with the following: "On the ground track and trajectory presented in the license application;"
- 6) In paragraph 5(d), replaced "RESERVED" with the following: "Transporting (i) U.S. government payloads and (ii) non-government research and scientific payloads, to low Earth orbit as described in the license application; and"
- 7) Redesignated License Order No. VOL 22-124A with "(Rev 1)" following.
- 8) Before "Issued On:" inserted "Original", then below that line, added a new line: "Rev 1 Issued On: February 4, 2022"
- 9) Before "Effective On:", inserted "Rev 1", and change date to "February 4, 2022"

Revision 2 - Issued - June 10, 2022

- 1) Redesignated License Order No. VOL 22-124A (Rev 1) as (Rev 2).
- 2) Removed the classes of payloads "(i) U.S. government payloads, and (ii) non-government research and scientific payloads" and replaced with a general application-based statement.

**License Order No. VOL 22-124B (Rev 1)**

OFFICE OF  
COMMERCIAL SPACE TRANSPORTATION  
LICENSE ORDER REGARDING

**FINANCIAL RESPONSIBILITY REQUIREMENTS**

UNDER LICENSE NO. VOL 22-124  
ISSUED TO

ASTRA SPACE, INC.

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1. Authority: This Order is issued to Astra Space, Inc., referred to as Astra, under 51 U.S.C. Subtitle V, chapter 509, and 14 C.F.R. part 440.
2. Purpose: This Order modifies License No. VOL 22-124 originally issued on January 4, 2022 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: Astra 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) One Hundred Million Dollars (\$100,000,000) for covered claims resulting from flight of the Rocket v3.3 launch vehicle from Cape Canaveral Space Force Station (CCSFS), and
  - (b) Three Million Dollars (\$3,000,000) for covered claims resulting from pre-flight ground operations performed at CCSFS.
5. Government Property Insurance: Astra 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:

**License Order No. VOL 22-124B (Rev 1)**

- (a) Thirty-Two Million Dollars (\$32,000,000) for covered claims resulting from flight of the Rocket v3.3 launch vehicle from CCSFS, and
  - (b) Thirty-Two Million Dollars (\$32,000,000) for covered claims resulting from pre-flight ground operations performed at CCSFS.
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 Cape Canaveral Space Force Station.

OFFICE OF COMMERCIAL SPACE TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

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JAMES R REPCHECK  
Date: 2022.02.04  
17:17:44 -05'00'

By: \_\_\_\_\_

Randy Repcheck, Manager  
Safety Authorization Division

Originally Issued On: January 4, 2022  
Rev 1 Issued On: February 4, 2022  
Rev 1 Effective On: February 4, 2022

**License Order No. VOL 22-124B (Rev 1)**

**Revision History:**

Original License Order Issued - January 4, 2022

Revision 1 - Issued - February 4, 2022

- 1) In paragraph 2, replaced "issued concurrently" with "originally issued on February 10, 2017."
- 2) In paragraph 4(a), replaced "RESERVED" with the following:  
"One Hundred Million Dollars (\$100,000,000) for covered claims resulting from flight of the Rocket v3.3 launch vehicle from Cape Canaveral Space Force Station (CCSFS), and"
- 3) In paragraph 4(b), replaced "Cape Canaveral Space Force Station" with "CCSFS".
- 4) In paragraph 5(a), replaced "RESERVED" with the following: "Thirty-Two Million Dollars (\$32,000,000) for covered claims resulting from flight of the Rocket v3.3 launch vehicle from CCSFS, and"
- 5) In paragraph 5(b), replaced "Cape Canaveral Space Force Station" with "CCSFS"
- 6) Redesignated License Order No. VOL 22-124B with "(Rev 1)" following.
- 7) Before "Issued On:" inserted "Original", then below that line, added a new line: "Rev 1 Issued On: February 4, 2022"
- 8) Before "Effective On:", inserted "Rev 1", and change date to "February 4, 2022"