

Commercial Space Transportation License

License Number: LLO 17-099

ORBITAL SCIENCES CORPORATION

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. Orbital Sciences Corporation (OSC), a wholly owned subsidiary of Orbital ATK, Inc., is authorized to conduct:

(a) Flights of Minotaur IV launch vehicles from Launch Complex 46 at Cape Canaveral Air Force Station (CCAFS), as identified in license orders issued by the Federal Aviation Administration;

(b) Pre-flight ground operations at CCAFS associated with the flights, as identified in paragraph (a) of this license, of the Minotaur IV launch vehicles.

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: February 10, 2017

Effective: February 10, 2017

A handwritten signature in black ink, reading "Kenneth Wong".

Manager, Licensing and Evaluation Division

OFFICE OF
COMMERCIAL SPACE TRANSPORTATION
LICENSE ORDER REGARDING

LAUNCH

AUTHORIZED BY LICENSE NO. LLO 17-099
ISSUED TO

ORBITAL SCIENCES CORPORATION

1. Authority: This Order is issued to Orbital Sciences Corporation, referred to as OSC, under 51 U.S.C. subtitle V, chapter 509, and 14 C.F.R. Ch. III.
2. Purpose: This Order modifies License No. LLO 17-099 issued concurrently by the Federal Aviation Administration's Office of Commercial Space Transportation, authorizing OSC to conduct launches of Minotaur IV launch vehicles; and prescribes as conditions to License No. LLO 17-099 certain requirements applicable to the launches.
3. Definitions: For purposes of License No. LLO 17-099 and any orders issued by the FAA pertaining to activities covered by License No. LLO 17-099:
 - (a) "Flight" shall mean the flight of a Minotaur IV launch vehicle commencing with ignition of the first stage from Cape Canaveral Air Force Station (CCAFS) and transporting United States government payloads to a low Earth orbit. A flight is concluded upon OSC's last exercise of control over the Minotaur IV launch vehicle, including the safing of the Minotaur IV launch vehicle stages or components that reach Earth orbit, following separation of the payloads.
 - (b) "Pre-flight ground operations" shall mean OSC's pre-flight preparations of a Minotaur IV launch vehicle at CCAFS, beginning with the arrival of the Minotaur IV launch vehicle at CCAFS.

4. License Term: The term of License No. LLO 17-099 authorizing OSC to conduct launches is five (5) years from the effective date of this license.

OFFICE OF COMMERCIAL SPACE TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

By: 
Kenneth Wong, Manager
Licensing and Evaluation Division

Issued: February 10, 2017
Effective: February 10, 2017

OFFICE OF
COMMERCIAL SPACE TRANSPORTATION
LICENSE ORDER REGARDING

FLIGHT

AUTHORIZED BY LICENSE NO. LLO 17-099
ISSUED TO

ORBITAL SCIENCES CORPORATION

1. Authority: This Order is issued to Orbital Sciences Corporation, referred to as OSC, under 51 U.S.C. subtitle V, chapter 509, and 14 C.F.R. Ch. III.
2. Purpose: This Order modifies License No. LLO 17-099 issued concurrently by the Federal Aviation Administration's Office of Commercial Space Transportation, authorizing OSC to conduct launches of Minotaur IV launch vehicles; and prescribes as conditions to License No. LLO 17-099 certain requirements applicable to the authorization to conduct flights.
3. Authorization: OSC is authorized to conduct flights:
 - (a) Using Minotaur IV launch vehicles;
 - (b) From Cape Canaveral Air Force Station, Florida;
 - (c) On the ground track and trajectory presented in the license application;
 - (d) Transporting U.S. government payloads to a low Earth orbit;
 - (e) According to the launch vehicle, launch vehicle systems, and safety management program represented in the Orbital 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: February 10, 2017

Effective: February 10, 2017

OFFICE OF
COMMERCIAL SPACE TRANSPORTATION
LICENSE ORDER REGARDING

PRE-FLIGHT GROUND OPERATIONS

AUTHORIZED BY LICENSE NO. LLO 17-099
ISSUED TO

ORBITAL SCIENCES CORPORATION

1. Authority: This Order is issued to Orbital Sciences Corporation, referred to as OSC, under 51 U.S.C. subtitle V, chapter 509, and 14 C.F.R. Ch. III.
2. Purpose: This Order modifies License No. LLO 17-099 issued concurrently by the Federal Aviation Administration's Office of Commercial Space Transportation, authorizing OSC to conduct launches of Minotaur IV launch vehicles; and prescribes as conditions to License No. LLO 17-099 certain requirements applicable to the authorization to conduct pre-flight ground operations.
3. Authorization: OSC is authorized to conduct pre-flight ground operations at Cape Canaveral Air Force Station associated with the launches of U.S. government payloads on Minotaur IV launch vehicles.

OFFICE OF COMMERCIAL SPACE TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

By: 
Kenneth Wong, Manager
Licensing and Evaluation Division

Issued: February 10, 2017
Effective: February 10, 2017

OFFICE OF
COMMERCIAL SPACE TRANSPORTATION
LICENSE ORDER REGARDING

FINANCIAL RESPONSIBILITY REQUIREMENTS

UNDER LICENSE NO. LLO 17-099
ISSUED TO

ORBITAL SCIENCES CORPORATION

1. Authority: This Order is issued to Orbital Sciences Corporation, referred to as OSC, under 51 U.S.C. Subtitle V, chapter 509, and 14 C.F.R. part 440.
2. Purpose: This Order modifies License No. LLO 17-099 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: OSC 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 Fifty Million Dollars (\$150,000,000) for covered claims resulting from flight of the Minotaur IV launch vehicle from Cape Canaveral Air Force Station (CCAFS).
 - (b) Twenty-Seven Million Dollars (\$27,000,000) for covered claims resulting from pre-flight operations performed at CCAFS.

5. Government Property Insurance: OSC 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) Thirty Million Dollars (\$30,000,000) for covered claims resulting from flight of the Minotaur IV launch vehicle from CCAFS.
 - (b) Twenty-One Million Dollars (\$21,000,000) 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.

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FEDERAL AVIATION ADMINISTRATION

By: 
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