

Commercial Space Transportation License

License Number: LLO 16-094 (Rev 1)

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 is authorized to conduct:

Pre-flight ground operations at Vandenberg Air Force Base (VAFB) associated with the conduct of Minotaur IV launch vehicle flights that require a Federal Aviation Administration license.

This license is granted subject to the terms, conditions, and limitations set forth in licensing orders A, 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.



eUS Department
of Transportation
Federal Aviation
Administration

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

Original Issued: November 10, 2016
Rev 1 Issued: June 20, 2018
Rev 1 Effective: June 20, 2018

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

Manager, Licensing and Evaluation Division

Revision History:

Original License - Issued November 10, 2016

Revision 1 - Issued June 20, 2018

- 1) Removed text ", a wholly owned subsidiary of Orbital ATK, Inc.,"

OFFICE OF
COMMERCIAL SPACE TRANSPORTATION
LICENSE ORDER REGARDING

LAUNCH

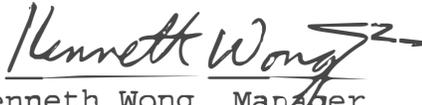
AUTHORIZED BY LICENSE NO. LLO 16-094
ISSUED TO

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 16-094 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 16-094 certain requirements applicable to the launches.
3. Definitions: For purposes of License No. LLO 16-094 and any orders issued by the FAA pertaining to activities covered by License No. LLO 16-094:
 - (a) "Launch" means pre-flight ground operations only, as defined in this section.
 - (b) "Pre-flight ground operations" shall mean OSC's pre-flight preparations of a Minotaur IV launch vehicle at VAFB associated with the conduct of any flights requiring an FAA license, beginning with the arrival of the Minotaur IV launch vehicle components at VAFB, and concluding with the departure of such components from VAFB.

4. License Term: The term of License No. LLO 16-094 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: November 10, 2016

Effective: November 10, 2016

OFFICE OF
COMMERCIAL SPACE TRANSPORTATION
LICENSE ORDER REGARDING

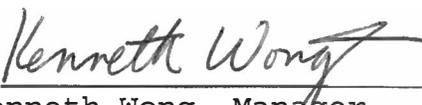
PRE-FLIGHT GROUND OPERATIONS

AUTHORIZED BY LICENSE NO. LLO 16-094
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 16-094 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 16-094 certain requirements applicable to the authorization to conduct pre-flight ground operations.
3. Authorization: OSC is authorized to conduct pre-flight ground operations at Vandenberg Air Force Base (VAFB) associated with the conduct of any flights for which an FAA license is required, beginning with the arrival of the Minotaur IV launch vehicle at VAFB, and concluding with the departure of such components from VAFB.

OFFICE OF COMMERCIAL SPACE TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

By: 
Kenneth Wong, Manager
Licensing and Evaluation Division

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OFFICE OF
COMMERCIAL SPACE TRANSPORTATION
LICENSE ORDER REGARDING

FINANCIAL RESPONSIBILITY REQUIREMENTS

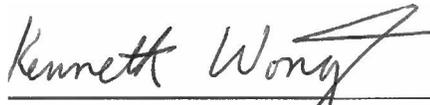
UNDER LICENSE NO. LLO 16-094
ISSUED TO

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 16-094 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 Twenty-Seven Million Dollars (\$27,000,000) for covered claims resulting from pre-flight operations performed at Vandenberg Air Force Base (VAFB).
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 Forty-Two Million Dollars (\$42,000,000) for covered claims resulting from pre-flight operations performed at VAFB.

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 VAFB.

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FEDERAL AVIATION ADMINISTRATION

By: 
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