

Commercial Space Transportation License

License Number: LLS 13-085

**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 a launch.**

General. Orbital Sciences Corporation is authorized to
conduct:

- (i) Flights of Antares Configuration 120 launch vehicles from Pad 0A at Wallops Flight Facility (WFF) transporting Cygnus Visiting Vehicles to low Earth orbit; and
- (ii) Pre-flight ground operations at WFF associated with the flights identified in paragraph (i) of this license, of Antares Configuration 120 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.**

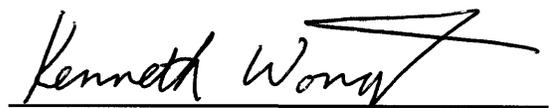
**The licensee shall at all times conduct its operations
in accordance with the regulations prescribed by the
Office of Commercial Space Transportation for the
activities authorized by this license.**



US Department
of Transportation
Federal Aviation
Administration

Issued On: June 5, 2013

Effective On: June 5, 2013



Manager, Licensing and Evaluation Division

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

OFFICE OF
COMMERCIAL SPACE TRANSPORTATION
LICENSE ORDER REGARDING

LAUNCH

AUTHORIZED BY LICENSE NO. LLS 13-085
ISSUED TO

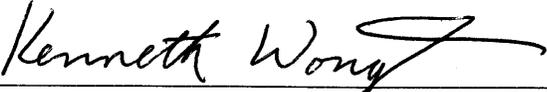
Orbital Sciences Corporation

1. Authority: This Order is issued to Orbital Sciences Corporation, referred to as Orbital, under 51 U.S.C. subtitle V, chapter 509 and 14 C.F.R. Ch. III.
2. Purpose: This Order modifies License No. LLS 13-085, issued concurrently by the Federal Aviation Administration's Office of Commercial Space Transportation, authorizing Orbital to conduct launches of Antares Configuration 120 launch vehicles; and prescribes as conditions to License No. LLS 13-085 certain requirements applicable to the launch.
3. Definitions: For purposes of License No. LLS 13-085 and any orders issued by the FAA pertaining to activities covered by License No. LLS 13-085:
 - (i) "Flight" shall mean the flight of an Antares Configuration 120 launch vehicle commencing with ignition of the first stage from Wallops Flight Facility (WFF) on the same ground track and trajectory as presented in the license application for the purposes of transporting a Cygnus Visiting Vehicle to low Earth orbit. A flight is concluded upon Orbital's last exercise of control over the Antares Configuration 120 vehicle, including the safing of Antares Configuration 120 vehicle stages or components that reach Earth orbit, following separation of the payloads.
 - (ii) "Pre-flight ground operations" shall mean Orbital's pre-flight preparations of the Antares Configuration 120 vehicle at WFF beginning with the arrival of the Antares Configuration 120 vehicle at WFF.

License Order No. LLS 13-085A

4. License Term: The term of License No. LLO 13-085 authorizing Orbital to conduct launches is three (3) years from the effective date of this license order.

OFFICE OF COMMERCIAL SPACE TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

By: 
Kenneth Wong, Manager
Licensing and Evaluation Division

Issued On: June 5, 2013

Effective On: June 5, 2013

OFFICE OF
COMMERCIAL SPACE TRANSPORTATION
LICENSE ORDER REGARDING

FLIGHT

AUTHORIZED BY LICENSE NO. LLS 13-085
ISSUED TO

ORBITAL SCIENCES CORPORATION

1. Authority: This Order is issued to Orbital Sciences Corporation, referred to as Orbital, under 51 U.S.C. subtitle V, chapter 509, and 14 C.F.R. Ch. III.
2. Purpose: This Order modifies License No. LLS 13-085, issued concurrently by the Federal Aviation Administration's Office of Commercial Space Transportation, authorizing Orbital to conduct launches of Antares Configuration 120 launch vehicles; and prescribes as conditions to License No. LLS 13-085 certain requirements applicable to the authorization to conduct the flight of a launch vehicle.
3. Authorization: Orbital is authorized to conduct the flights:
 - (a) Using Antares Configuration 120 launch vehicles;
 - (b) From Wallops Flight Facility (WFF), Virginia;
 - (c) On the ground track and trajectory presented in the license application;
 - (d) Transporting to low Earth orbit Cygnus Visiting Vehicles; and
 - (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*
Kenneth Wong, Manager
Licensing and Evaluation Division

Issued On: June 5, 2013

Effective On: June 5, 2013

OFFICE OF
COMMERCIAL SPACE TRANSPORTATION
LICENSE ORDER REGARDING

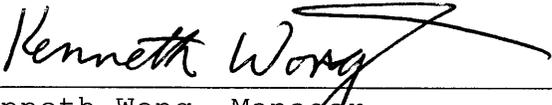
PRE-FLIGHT GROUND OPERATIONS

AUTHORIZED BY LICENSE NO. LLS 13-085
ISSUED TO

ORBITAL SCIENCES CORPORATION

1. Authority: This Order is issued to Orbital Sciences Corporation, referred to as Orbital, under 51 U.S.C. subtitle V, chapter 509, and 14 C.F.R. Ch. III.
2. Purpose: This Order modifies License No. LLS 13-085, issued concurrently by the Federal Aviation Administration's Office of Commercial Space Transportation, authorizing Orbital to conduct launches of Antares Configuration 120 launch vehicles; and prescribes as conditions to License No. LLS 13-085 certain requirements applicable to the authorization to conduct pre-flight ground operations.
3. Authorization: Orbital is authorized to conduct pre-flight ground operations at WFF associated with the launches of Cygnus Visiting Vehicles on Antares Configuration 120 launch vehicles.

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. LLS 13-085

Issued to

ORBITAL SCIENCES CORPORATION

1. Authority: This Order is issued to Orbital Sciences Corporation, referred to as Orbital, under 51 U.S.C. Subtitle V, chapter 509, and 14 C.F.R. part 440.
2. Purpose: This Order modifies License No. LLS 13-085, 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: Orbital 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-Four Million Dollars (\$34,000,000) for covered claims resulting from flight of the Antares Configuration 120 launch vehicle from Wallops Flight Facility (WFF).
 - (b) Nine Million Dollars (\$9,000,000) for covered claims resulting from pre-flight operations performed at WFF.

5. Government Property Insurance: Orbital 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) Forty-Four Million Dollars (\$44,000,000) for covered claims resulting from flight of the Antares Configuration 120 launch vehicle from WFF.
 - (b) One Million Dollars (\$1,000,000) for covered claims resulting from pre-flight operations performed at WFF.
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 WFF.

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FEDERAL AVIATION ADMINISTRATION

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