Commercial Space Transportation License

License Number: LRLO 18-109

EXOS AEROSPACE

is authorized, subject to the provisions of 51 USC Subtitle V, ch. 509, and the orders, rules, and regulations issued under it, to conduct suborbital reusable launch vehicle (RLV) missions.

General. Exos Aerospace is authorized to conduct:

(i) flights of SARGE launch vehicles from the launch pad located at latitude 32.943694°N and longitude 106.922361°W at Spaceport America, New Mexico, transporting scientific payloads; and

(ii) pre-flight ground operations at Spaceport America associated with the flights of SARGE 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 14, 2018**

Effective: **February 14, 2018**

Kenneth Wong

Manager, Licensing and Evaluation Division

OFFICE OF
COMMERCIAL SPACE TRANSPORTATION
LICENSE ORDER REGARDING

REUSABLE LAUNCH VEHICLE (RLV) MISSIONS

AUTHORIZED BY LICENSE NO. LRLO 18-109
ISSUED TO

EXOS AEROSPACE

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1. Authority: This Order is issued to Exos Aerospace, referred to as Exos, under 51 U.S.C. subtitle V, chapter 509 and 14 C.F.R. Ch. III.

2. Purpose: This Order modifies License No. LRLO 18-109, issued concurrently by the Federal Aviation Administration's Office of Commercial Space Transportation, authorizing Exos to conduct suborbital missions of SARGE reusable launch vehicles; and prescribes as conditions to License No. LRLO 18-109 certain requirements applicable to the missions.

3. Definitions: For purposes of License No. LRLO 18-109 and any orders issued by the FAA pertaining to activities covered by License No. LRLO 18-109:

   (i) "Flight" shall mean the flight of a SARGE vehicle commencing with its ignition at Spaceport America (SPA) for the purpose of transporting scientific payloads to a suborbital altitude. A flight is concluded upon SARGE's recovery following a launch, including the safing of the SARGE vehicle.

   (ii) "Pre-fight ground operations" shall mean Exos's pre-flight preparations of the SARGE vehicle at SPA beginning with the arrival of the SARGE vehicle at SPA.

4. Verification Test Data: Exos must complete and make available to the FAA, prior to launch, verification test data identified in its license application that verifies risk mitigation and elimination measures.

5. License Term: The term of License No. LRLO 18-109 authorizing Exos to conduct suborbital RLV missions is two (2) years from February 14, 2018.

OFFICE OF COMMERCIAL SPACE TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

By: Kenneth Wong

Kenneth Wong, Manager
Licensing and Evaluation Division

Issued: February 14, 2018
Effective: February 14, 2018

License Order No. LRLO 18-109B

OFFICE OF
COMMERCIAL SPACE TRANSPORTATION
LICENSE ORDER REGARDING

FLIGHT

AUTHORIZED BY LICENSE NO. LRLO 18-109
ISSUED TO

EXOS AEROSPACE

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1. Authority: This Order is issued to Exos Aerospace, referred to as Exos, under 51 U.S.C. subtitle V, chapter 509, and 14 C.F.R. Ch. III.

2. Purpose: This Order modifies License No. LRLO 18-109, issued concurrently by the Federal Aviation Administration's Office of Commercial Space Transportation, authorizing Exos to conduct suborbital missions of SARGE reusable launch vehicles; and prescribes as conditions to License No. LRLO 18-109 certain requirements applicable to the authorization to conduct flights.

3. Authorization: Exos is authorized to conduct flights of SARGE reusable launch vehicles:

   a) From Spaceport America (SPA), New Mexico;

   b) On the ground track and trajectory presented in the license application; and

   c) Transporting scientific payloads to a suborbital altitude.

OFFICE OF COMMERCIAL SPACE TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

By: Kenneth Wong
Kenneth Wong, Manager
Licensing and Evaluation Division

Issued: February 14, 2018
Effective: February 14, 2018

Order No. LRLO 18-109C

OFFICE OF
COMMERCIAL SPACE TRANSPORTATION
LICENSE ORDER REGARDING

PRE-FLIGHT GROUND OPERATIONS

AUTHORIZED BY LICENSE NO. LRLO 18-109
ISSUED TO

EXOS AEROSPACE

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1. Authority: This Order is issued to Exos Aerospace, referred to as Exos, under 51 U.S.C. subtitle V, chapter 509, and 14 C.F.R. Ch. III.

2. Purpose: This Order modifies License No. LRLO 18-109, issued concurrently by the Federal Aviation Administration's Office of Commercial Space Transportation, authorizing Exos to conduct suborbital missions of SARGE reusable launch vehicles; and prescribes as conditions to License No. LRLO 18-109 certain requirements applicable to the authorization to conduct pre-flight ground operations.

3. Authorization: Exos is authorized to conduct pre-flight ground operations at Spaceport America, New Mexico associated with the launch of scientific payloads on SARGE reusable launch vehicles.

OFFICE OF COMMERCIAL SPACE TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

By: Kenneth Wong

Kenneth Wong, Manager
Licensing and Evaluation Division

Issued: February 14, 2018
Effective: February 14, 2018

OFFICE OF
COMMERCIAL SPACE TRANSPORTATION
LICENSE ORDER REGARDING

FINANCIAL RESPONSIBILITY REQUIREMENTS

Under License No. LRLO 18-109
Issued to

EXOS AEROSPACE

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1. Authority: This Order is issued to Exos Aerospace, referred to as Exos, under 51 U.S.C. Subtitle V, chapter 509, and 14 C.F.R. part 440.

2. Purpose: This Order modifies License No. LRLO 18-109, 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 by 14 C.F.R. § 440.3.

4. Liability Insurance: Exos 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) Six Million Dollars ($6,000,000) for covered third party claims resulting from flight of the SARGE reusable launch vehicle from Spaceport America (SPA).

(b) Three Million Dollars ($3,000,000) for covered third party claims resulting from pre-flight operations performed at SPA.

5. Demonstration of Compliance: Exos must submit to the FAA evidence of financial responsibility and compliance with allocation of risk requirements in accordance with § 440.15, no later than fifteen (15) days prior to the first launch conducted under this license.

OFFICE OF COMMERCIAL SPACE TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

By: Kenneth Wong

Kenneth Wong, Manager
Licensing and Evaluation Division

Issued: February 14, 2018
Effective: February 14, 2018