Commercial Space Transportation License

License Number: LRLO 16-092 (Rev 1)

VIRGIN GALACTIC, LLC

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. Virgin Galactic, LLC is authorized to conduct RLV missions to launch SpaceShipTwo (SS2) utilizing WhiteKnightTwo (WK2). The RLV missions authorized by this license commence and c onclude at either Mojave Air and Space Port or Spaceport America.

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

Original Issued: [Publish Date]

Rev 1 Issued: **October 24, 2017**

Rev 1 Effective: **October 24, 2017**

Kenneth Wong

Manager, Licensing and Evaluation Division

Revision History:

Original License – Issued July 29, 2016

Revision 1 – Issued October 24, 2017

1) Under General: Replaced "The RLV missions authorized by this license commence and conclude at Mojave Air and Space Port" with "The RLV missions authorized by this license commence and conclude at either Mojave Air and Space Port or Spaceport America"
2) Changed "Issued: July 29, 2016" to "Original Issued: July 29, 2016" and added "Rev 1 Issued: October 24, 2017"
3) Changed "Effective: July 29, 2016" to "Rev 1 Effective: October 24, 2017"

OFFICE OF
COMMERCIAL SPACE TRANSPORTATION
LICENSE ORDER REGARDING

REUSABLE LAUNCH VEHICLE (RLV) MISSIONS

AUTHORIZED BY LICENSE NO. LRLO 16-092
ISSUED TO

VIRGIN GALACTIC, LLC

1. Authority: This Order is issued to Virgin Galactic, LLC (referred to as VG) under 51 U.S.C. subtitle V, chapter 509, and 14 C.F.R. Ch. III.

2. Purpose: This Order modifies License No. LRLO 16-092 originally issued July 29, 2016, by the Federal Aviation Administration's Office of Commercial Space Transportation, authorizing VG to conduct suborbital RLV missions to launch the SpaceShipTwo (SS2) reusable launch vehicle utilizing the WhiteKnightTwo (WK2) carrier aircraft; and prescribes as conditions to License No. LRLO 16-092 certain requirements applicable to those missions.

3. Definitions: For purposes of License No. LRLO 16-092 and any orders issued by the FAA pertaining to activities covered by License No. LRLO 16-092:

   (a) "Launch" means pre-flight ground operations, flight, and activities after flight necessary to return SS2 and WK2 to a safe condition. Launch ends after the vehicle or vehicles impact or land on Earth, after activities necessary to return the vehicle or vehicles to a safe condition on the ground after impact or landing, or after activities necessary to return the site to a safe condition, whichever occurs latest.

   (b) "Pre-flight ground operations" involve VG's pre-flight preparations of SS2 and WK2 at Mojave Air and Space Port or Spaceport America.

   (c) "Flight" means flight of SS2 commencing upon take-off of WK2 from either Mojave Air and Space Port or Spaceport America with the intent to launch SS2. Flight ends after the vehicle or vehicles impact or land on Earth. For a landing of either WK2 or SS2, flight ends upon wheels stopping. For a flight of WK2

that does not land and come to a complete stop, flight and launch end when WK2 impacts Earth, where any subsequent operation is subject to Title 49.

4. License Term: The term of License No. LRLO 16-092 authorizing VG to conduct RLV missions is two (2) years from July 29, 2020.

OFFICE OF COMMERCIAL SPACE TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

By: DANIEL P MURRAY Digitally signed by DANIEL P MURRAY Date: 2020.07.28 08:10:24 -04'00'

Daniel Murray, Manager
Safety Authorization Division, ASA-100

Original Issued: [Publish Date]
Rev 3 Issued: July 28, 2020
Rev 3 Effective: July 29, 2020

Revision History:

Original License – Issued July 29, 2016

Revision 1 – Issued October 24, 2017

1) In paragraph 2, replaced "License No. LRLO 16-092 issued concurrently" with License No. LRLO 16-092 originally issued July 29, 2016"
2) In paragraph 3(b) added "or Spaceport America"
3) In paragraph 3(c), replaced "Flight means flight of SS2 commencing upon take-off of WK2 from Mojave Air and Space Port with the intent to launch SS2" with "Flight means flight of SS2 commencing upon take-off of WK2 from either Mojave Air and Space Port or Spaceport America with the intent to launch SS2." In paragraph 3(c), replaced "For SS2 and WK2, flight ends upon wheels stopping after landing" with "For SS2 and WK2, flight ends upon wheels stopping after landing at the site where flight began."
4) Changed "Issued on: July 29, 2016" to "Original Issued: July 29, 2016" and added "Rev 1 Issued: October 24, 2017"
5) Changed "Effective On: July 29, 2016" to "Rev 1 Effective: October 24, 2017"
6) Note: References to License LRLO 16-092 are valid for any subsequent revision.

Revision 2 – Issued July 26, 2018

1) Changed "Rev 1 Issued: October 24, 2017" to "Rev 2 Issued: July 26, 2018"

2) Changed “Rev 1 Effective: October 24, 2017” to “Rev 2 Effective: July 29, 2018”
3) In paragraph 4, changed July 29, 2016 to July 29, 2018.

Revision 3 – Issued July 28, 2020

1) In paragraph 3(a), replaced “Launch” means pre-flight ground operations, flight, and activities after flight necessary to return SS2 and WK2 to a safe condition. “Launch” means pre-flight ground operations, flight, and activities after flight necessary to return SS2 and WK2 to a safe condition. Launch ends after vehicle or vehicle impact or landing on Earth, after activities necessary to return the vehicle or vehicle to a safe condition on the ground after impact or landing, or after activities necessary to return the site to a safe condition, whichever occurs latest.

2) In paragraph 3(c), replaced “For SS2 flight ends upon wheels stopping after landing.” “Flight ends after the vehicle or vehicles impact or land on Earth. For a landing of either WK2 or SS2, flight ends upon wheels stopping. For a flight of WK2 that does not land and come to a complete stop, flight and launch end when WK2 impacts Earth and any subsequent operation is subject to Title 49.

3) Changed “Rev 2 Effective: July 29, 2018” to “Rev 3 Effective: July 29, 2020”

4) In paragraph 4, changed July 29, 2020 to July 29, 2022.