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Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note verbale dated 21 May 2020 from the Permanent Mission of Czechia to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of Czechia to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit information concerning the space object Lucky-7, launched by Czechia (see annex).[1]

[1] The data on the space object referenced in the annex were entered into the Register of Objects Launched into Outer Space on 22 May 2020.

Annex

Registration data on a space object launched by Czechia*

Lucky-7

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Names of the space object	Lucky-7
Committee on Space Research international designator	2019-038W
State of registry	Czechia
Other launching States	Russian Federation
Date and territory or location of the launch	5 July 2019 at 0541 hours, 46 seconds UTC; Vostochny Cosmodrome, Russian Federation
Basic orbital parameters	
Nodal period	95.2 minutes
Inclination	97.5 degrees
Apogee	555.4 km
Perigee	519.3 km
General function of the space object	The Lucky-7 spacecraft is designed to perform an in-orbit demonstration flight to study the long-term impact of the space environment on commercial off-the-shelf electronic systems. The mission goal is to improve and/or verify scientific knowledge of methods for improving reliability and mission lifetime, intended for the “NewSpace” ecosystem. As a payload, the satellite carries a gamma ray dosimeter, a gamma ray spectrometer, a VGA colour camera, a GNSS navigational receiver, a 3-axis experimental magnetorquer system for satellite attitude control and a telemetry/housekeeping measurement unit to observe the status of the health of each subsystem. Moreover, the satellite will be utilized for outreach activities to inspire and support a new generation of aerospace students and engineers in the territory of Czechia.

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator	SkyFox Labs s.r.o.
Website	www.lucky7satellite.org
Launch vehicle	Soyuz-2.1b/Fregat
Other information	The launch was carried out by EXOLAUNCH GmbH, as a part of the Meteor M2-2 weather

* The information was submitted using the form prepared pursuant to General Assembly resolution 62/101 and has been reformatted by the Secretariat.

and climate monitoring satellite (primary payload) and EXOLAUNCH SmallSat Cluster-M, using the Russian Soyuz-2-1b/Fregat rocket from the far-eastern spaceport Vostochny of the Russian Federation.

The Lucky-7 satellite is owned and was manufactured by SkyFox Labs s.r.o., located in Prague. There are two ground stations for satellite operations located in and near Prague, both privately operated by SkyFox Labs s.r.o.

Designation of the space object and its registration number: Lucky-7 (space object designation); 2019-038W (Committee on Space Research international designator); 44406 (North American Aerospace Defense Command Catalogue Number); and OK0SAT (amateur radio call sign designation)