

Modification to Experimental Application, Call Sign WL2XOW

Exhibit information: Narrative Statement (Rev 4)

This modification is requested to include three more satellites of Lacuna Space for **receiving** the messages from the original 100 ground devices. These satellites provide extended coverage, revisit times and with that prospected outcome of the experiment. The purpose remains purely experimental, no commercial service is being offered. No space-to-Earth transmissions are requested under this license.

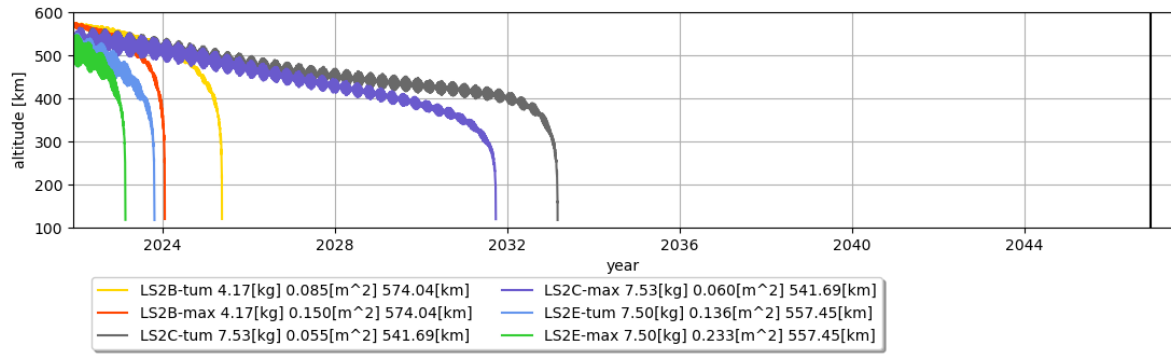
The reason that these satellites have not been in the original filing is that they were not launched/ not commissioned at the original date of application.

The details of the satellites are given below:

NORAD	46492	46913	47948	48924
Name	LACUNASAT-3 (Already granted)	LS2C	LS2B	LS2E
ODAR report name		RideShare 2 (R2)	LS2/ LacunaSat2-B	Faraday-Phoenix
Altitude	549.7 km (perigee) 573.4 km (apogee)	566.3 km 582.5 km	538.7 km 570.3 km	519.5 km 547.2 km
Inclination	97.7°	36.9°	97.6°	97.5°
Period	95.7 minutes	96.0 minutes	95.6 minutes	95.2 minutes
LTAN	13:23	N/A	10:57	02:06
Dimensions	3U with two deployed solar panels	6U without deployable solar panels	3U with two double deployable solar panels	6U with two triple deployable solar panels
Mass	3.8 kg	7.53 kg	4.16 kg	7.5 kg
Object Collision Risk	$1.0105 * 10^{(-6)}$	$10^{(-6)}$	$< 10^{(-6)}$	$< 10^{(-6)}$
Pieces expected to reentry?	No	No	No	No
Casualty risk by space debris	0	0	0	0

All other information on the experiment (including device locations, experimental setup, data forwarding, ITU filing) remains the same as for the original experiment. The payloads and antennas on the satellites are identical to the one on LACUNASAT-3.

ODARs are added as confidential documents (as they contain confidential information on the satellite bus). An up-to-date orbital decay analysis is attached below for all satellites (tum=tumbling motion; max = maximum surface area in ram direction).



Contact

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