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To whom it may concern:

The 1U MakerSat-1 cubesat has been designed with a similar communication system to previously successful GlobalStar-enabled cubesat missions. It has a low-power 1.6GHz bent-pipe downlink via the GlobalStar constellation to their ground stations around the world. It also has a 2.4GHz uplink receiver that is only used to receive a potential kill command from the US-based (Indiana) NearSpaceLaunch (NSL) ground station, should the FCC request to shut the satellite's 1.6GHz transmitter off. The downlink 1.6GHz frequency is proprietary to Globalstar around the world. The transmitter is interlocked with an earth horizon detector, so that it is only able to transmit upward toward the GlobalStar constellation when its horizon detector sees no earth image in its view. Restated, the transmitter will only transmit upward away from earth toward the GlobalStar constellation. Also, the kill command will only be transmitted from earth to satellite upon FCC request and only over the Indiana NSL ground station.

MakerSat-1 is expected to launch to the ISS on board a Falcon resupply in July 2019 and to be deployed from a Cygnus hatch-door-mounted Slingshot deployer from SEOPS in late July 2019 to begin a less than one year orbit.

Thank you,

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