

Request for Special Temporary Authority

Iridium Satellite LLC (“Iridium”) seeks special temporary authority (“STA”) for a period of one hundred and eighty (180) days, beginning June 1, 2022, and ending December 1, 2022, to transmit in the 1618.725–1626.5 MHz band,¹ in the manner described below, from its space stations to the Veery-FS1 low-Earth orbit 1p pocketcube operated by Care Weather Technologies (“Care Weather”). To accommodate the spacecraft launch integrator’s requirements, Iridium respectfully asks that its STA request be granted no later than **March 21, 2022**.

Care Weather has applied for a companion experimental STA for the Veery-FS1 cubesat² to conduct on-orbit testing and validation of new Care Weather custom satellite bus technologies for integration with its future satellite wind-sensing radar (a “scatterometer”). The Veery-FS1 communications subsystem includes an Iridium 9603 satellite modem. The Veery-FS1 satellite will use this modem to relay communications via the Iridium system to Care Weather mission control.

As set forth in the Care Weather Veery-FS1 STA Request, the cubesat will be flying in a FOSSA Systems PocketPod dispenser located on a Momentus Vigoride transfer vehicle that will be released from a SpaceX Falcon 9 launch vehicle. This launch is scheduled for June 1, 2022.

There will be no change during the experiment in the operating parameters of Iridium’s space stations. For this reason, no operating parameters, other than effective radiated power and an emission designator, are shown in the form that this exhibit accompanies. The only change for which Iridium seeks an STA is adding Veery-RL1 as a point of communication. Iridium’s Part 25 space station license does not cover space-to-space communications.

¹ Iridium’s constellation licensed under Callsign S2110 is comprised of 66 satellites, any one of which may be used as part of the experiment at any point in time.

² See Care Weather Technologies, Application for STA for Launch and Operation of Veery-FS1, OET File No. 1838-EX-ST-2021 filed Nov 10, 2021 (“Care Weather Veery-FS1 STA Request”).