

INTUITIVE MACHINES



IM-1 ENGINE MANEUVERS UPDATE

HOUSTON, TX – February 19, 2024

Flight controllers received and analyzed data from the February 16th engine Commissioning Maneuver (CM). Data from the 21-second full-thrust mainstage engine CM confirmed *Odysseus* hit its 21 m/s target with approximately 0.8 m/s accuracy. The GIF below was created from images taken while the lander maneuvered to CM burn attitude. Propulsion mixture ratios, mass flow rate, and temperature were as predicted. Overall, Intuitive Machines characterizes the execution of the CM as nominal and per expectations.



On February 18th, flight controllers commanded the lander's first planned trajectory correction maneuver, igniting the lander's engine for the second time, and are planning the anticipated final required maneuver before *Odysseus*' largest challenge to date, lunar orbit insertion, which is expected on Wednesday, February 21st.

In addition, flight controllers completed all NASA and commercial transit payload operations this morning.

Odysseus continues to be in excellent health, and flight controllers are analyzing and managing the lander's thermal conditioning for critical systems and payloads with a combination of heater power and attitude control to maximize efficiency.

We expect to continue to provide mission updates at least once a day on X and the IM-1 Mission web page, where we intend to host a live stream for landing coverage.



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