



# SPACE DEVELOPMENT AGENCY'S SECOND TRANCHE 0 MISSION

## MISSION OVERVIEW

SpaceX is targeting Friday, September 1 at 7:26 a.m. PT (14:26 UTC) for a Falcon 9 launch of the **Space Development Agency's second Tranche 0** mission to low-Earth orbit from Space Launch Complex 4E (SLC-4E) at Vandenberg Space Force Base in California. If needed, a backup opportunity is available on Saturday, September 2 at 7:25 a.m. PT (14:25 UTC).

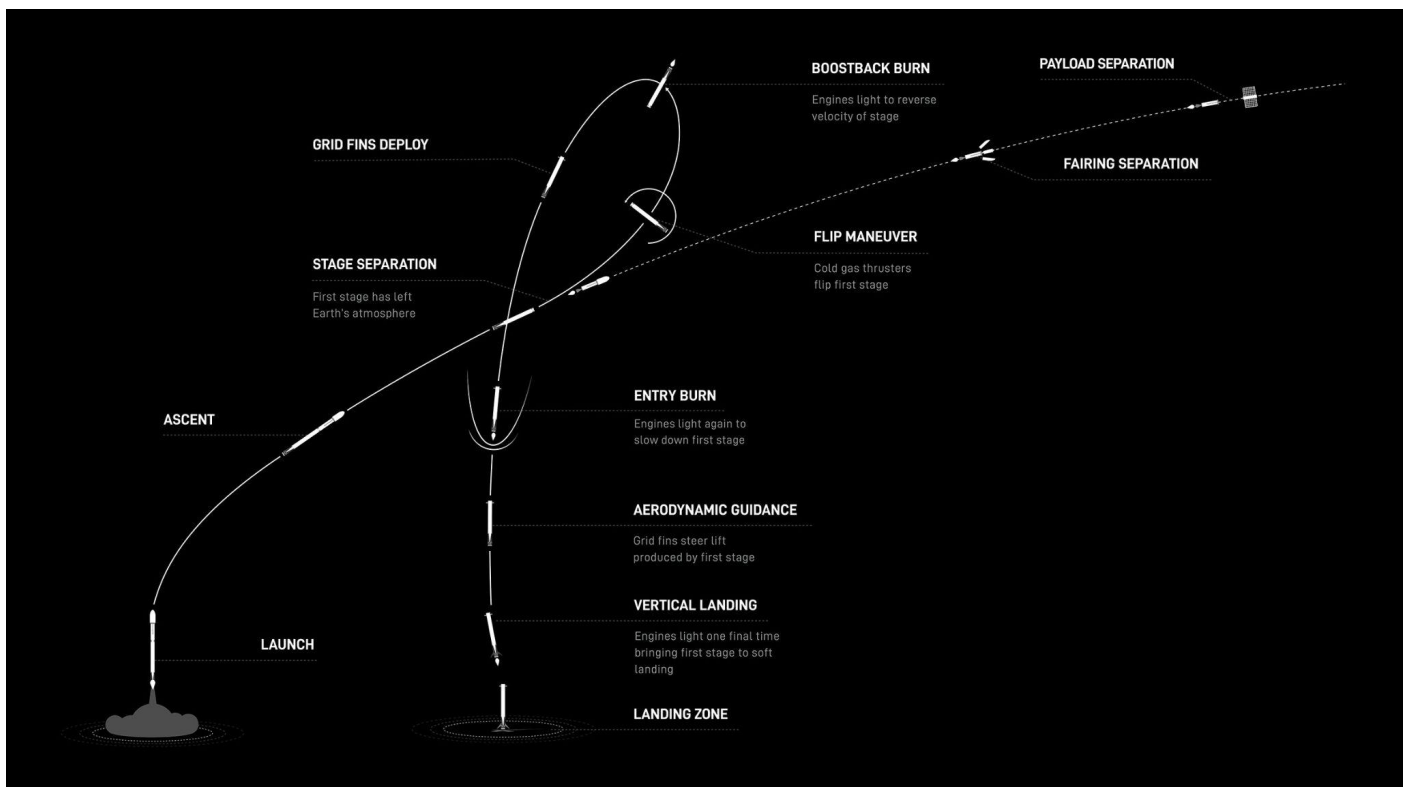
## WEBCAST

A live webcast of this mission will begin about 15 minutes prior to liftoff.

The Falcon 9 first stage booster supporting this mission previously launched Sentinel-6 Michael Freilich, DART, Transporter-7, Iridium OneWeb, and eight Starlink missions. Following stage separation, the first stage will land on Landing Zone 4 (LZ-4) at Vandenberg Space Force Base.

The space vehicles launched during this mission will serve a part of **SDA's Proliferated Warfighter Space Architecture**, a new layered network of satellites in low-Earth orbit and supporting elements that will provide global military communication and missile warning, indication, and tracking capabilities.

## MISSION PROFILE



# MISSION TIMELINE (ALL TIMES APPROXIMATE)

## COUNTDOWN

<b>Hr/Min/Sec</b>	<b>Event</b>
- 00:38:00	SpaceX Launch Director verifies go for propellant load
- 00:35:00	RP-1 (rocket grade kerosene) loading begins
- 00:35:00	1st stage LOX (liquid oxygen) loading begins
- 00:16:00	2nd stage LOX loading begins
- 00:07:00	Falcon 9 begins engine chill prior to launch
- 00:01:00	Command flight computer to begin final prelaunch checks
- 00:01:00	Propellant tank pressurization to flight pressure begins
- 00:00:45	SpaceX Launch Director verifies go for launch
- 00:00:03	Engine controller commands engine ignition sequence to start
- 00:00:00	Falcon 9 liftoff

## LAUNCH, LANDING AND DEPLOYMENT

<b>Hr/Min/Sec</b>	<b>Event</b>
00:01:12	Max Q (moment of peak mechanical stress on the rocket)
00:02:18	1st stage main engine cutoff (MECO)
00:02:21	1st and 2nd stages separate
00:02:29	2nd stage engine starts (SES-1)
00:02:35	Boostback burn start
00:03:06	Fairing deployment
00:03:29	Boostback burn end
00:06:02	1st stage entry burn start
00:06:19	1st stage entry burn complete
00:07:15	1st stage landing burn start
00:07:31	1st stage landing