

## Image: Readyng Orion for flight

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Credit: NASA/Eric Bordelon

(Phys.org) -- The NASA team at the Michoud Assembly Facility in New Orleans has completed the final weld on the first space-bound Orion capsule. The Exploration Flight Test 1 (EFT-1) Orion will be shipped to the Kennedy Space Center for final assembly and checkout operations.

The EFT-1 flight will take Orion to an altitude of more than 3,600 miles,

more than 15 times farther away from Earth than the [International Space Station](#). Orion will return home at a speed of 25,000 miles, almost 5,000 miles per hour faster than any human spacecraft. It will mimic the return conditions that astronauts experience as they come home from voyages beyond [low Earth orbit](#).

As Orion reenters the atmosphere, it will endure temperatures up to 4,000 degrees F., higher than any human spacecraft since astronauts returned from the moon.

Provided by NASA

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