

NASA's X-59 quiet supersonic research aircraft cleared for final assembly

December 19 2019, by J.d. Harrington



Illustration of the completed X-59 QueSST landing on a runway. Credit: Lockheed Martin

NASA's first large scale, piloted X-plane in more than three decades is cleared for final assembly and integration of its systems following a major project review by senior managers held Thursday at NASA Headquarters in Washington.

The management review, known as Key Decision Point-D (KDP-D), was the last programmatic hurdle for the X-59 Quiet SuperSonic Technology (QueSST) aircraft to clear before officials meet again in late 2020 to approve the airplane's first flight in 2021.

"With the completion of KDP-D we've shown the project is on schedule, it's well planned and on track. We have everything in place to continue this historic research mission for the nation's air-traveling public," said Bob Pearce, NASA's associate administrator for Aeronautics.

The X-59 is shaped to reduce the loudness of a [sonic boom](#) reaching the ground to that of a gentle thump, if it is heard at all. It will be flown above select U.S. communities to generate data from sensors and people on the ground in order to gauge public perception. That data will help regulators establish new rules to enable commercial supersonic air travel over land.

Construction of the X-59, under a \$247.5 million cost-plus-incentive-fee contract, is continuing at Lockheed Martin Aeronautics Company's Skunk Works factory in Palmdale, California.

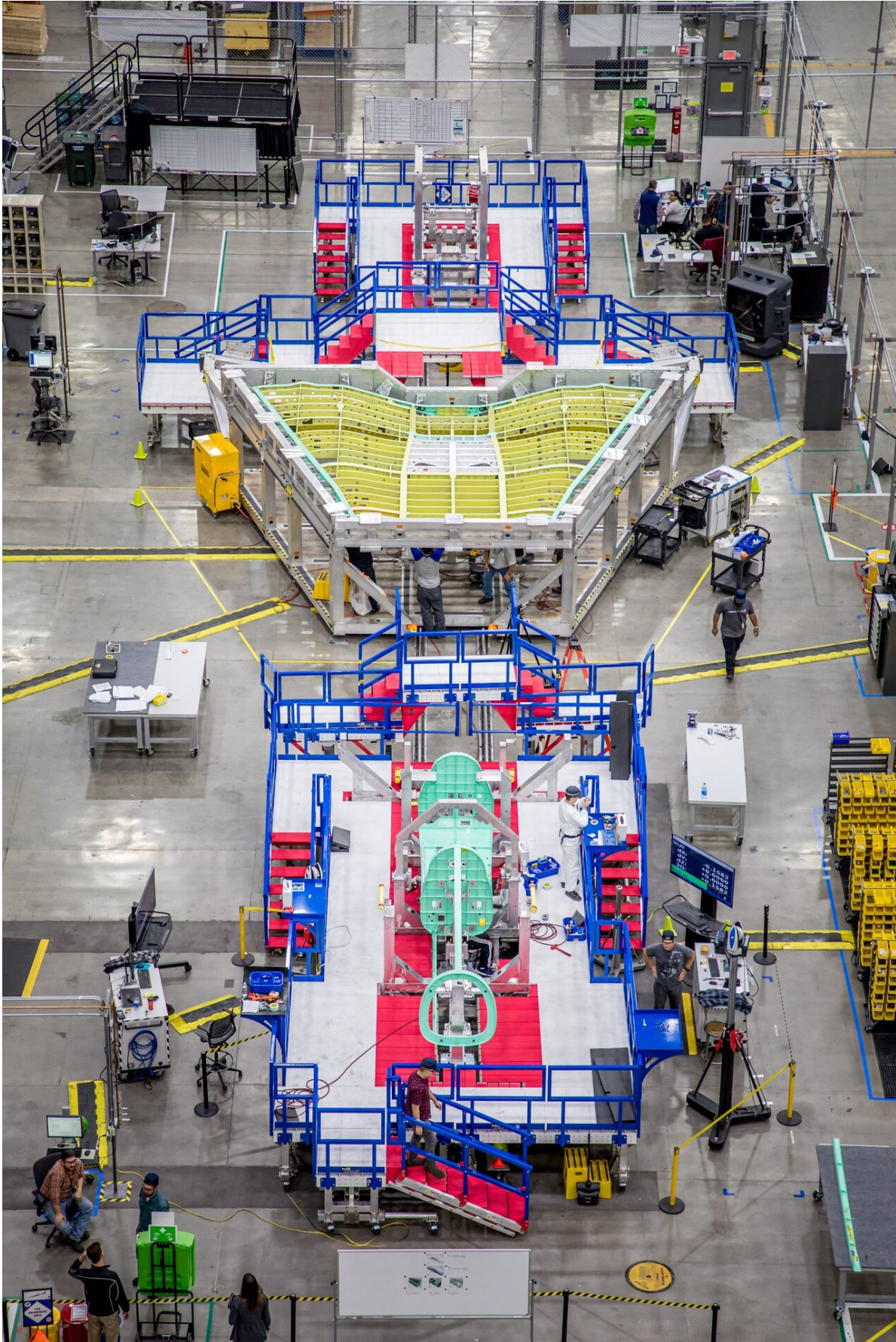


Image of the X-59 main assembly coming together. Credit: Lockheed Martin

Three major work areas are actively set up for building the airplane's main fuselage, wing and empennage. Final assembly and integration of the airplane's systems—including an innovative cockpit eXternal Visibility System—is targeted for late 2020.

Management of the X-59 QueSST development and construction falls under the Low Boom Flight Demonstrator project, which is part of NASA's Integrated Aviation Systems Program.

More information: For more information about NASA's aeronautics research, visit: www.nasa.gov/aeronautics

Provided by NASA

Citation: NASA's X-59 quiet supersonic research aircraft cleared for final assembly (2019, December 19) retrieved 24 April 2024 from <https://techxplore.com/news/2019-12-nasa-x-quiet-supersonic-aircraft.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.
