
836
NASA

1
00:00:02,960 --> 00:00:04,760
A small test airfoil representative

2
00:00:04,760 --> 00:00:07,040
of an aircraft wing section has been

3
00:00:07,049 --> 00:00:09,880
undergoing flight test on NASA's F-15B

4
00:00:09,880 --> 00:00:11,849
Aeronautics Research Testbed to

5
00:00:11,849 --> 00:00:14,620
determine its ability to create smooth

6
00:00:14,620 --> 00:00:17,420
or laminar airflow at supersonic speeds.

7
00:00:18,340 --> 00:00:21,980
The second phase of the Supersonic
Boundary Layer Transition project at

8
00:00:21,980 --> 00:00:24,140
NASA's Dryden Flight Research Center

9
00:00:24,520 --> 00:00:26,340
is investigating the transition from

10
00:00:26,340 --> 00:00:28,860
laminar turbulent airflow in a real

11
00:00:28,860 --> 00:00:30,320
world flight environment.

12
00:00:30,780 --> 00:00:33,580
The less turbulence, less aerodynamic drag.

13

00:00:34,360 --> 00:00:36,059
The flight tests are being conducted in

14
00:00:36,060 --> 00:00:38,180
partnership with the Aerion Corporation

15
00:00:38,180 --> 00:00:40,660
and could lead to refined airfoil designs,

16
00:00:41,080 --> 00:00:43,100
that incorporate natural laminar
flow

17
00:00:43,100 --> 00:00:44,920
at supersonic cruise conditions.

18
00:00:45,620 --> 00:00:46,620
[On condition]

19
00:00:47,160 --> 00:00:49,140
that would increase aerodynamic efficiency