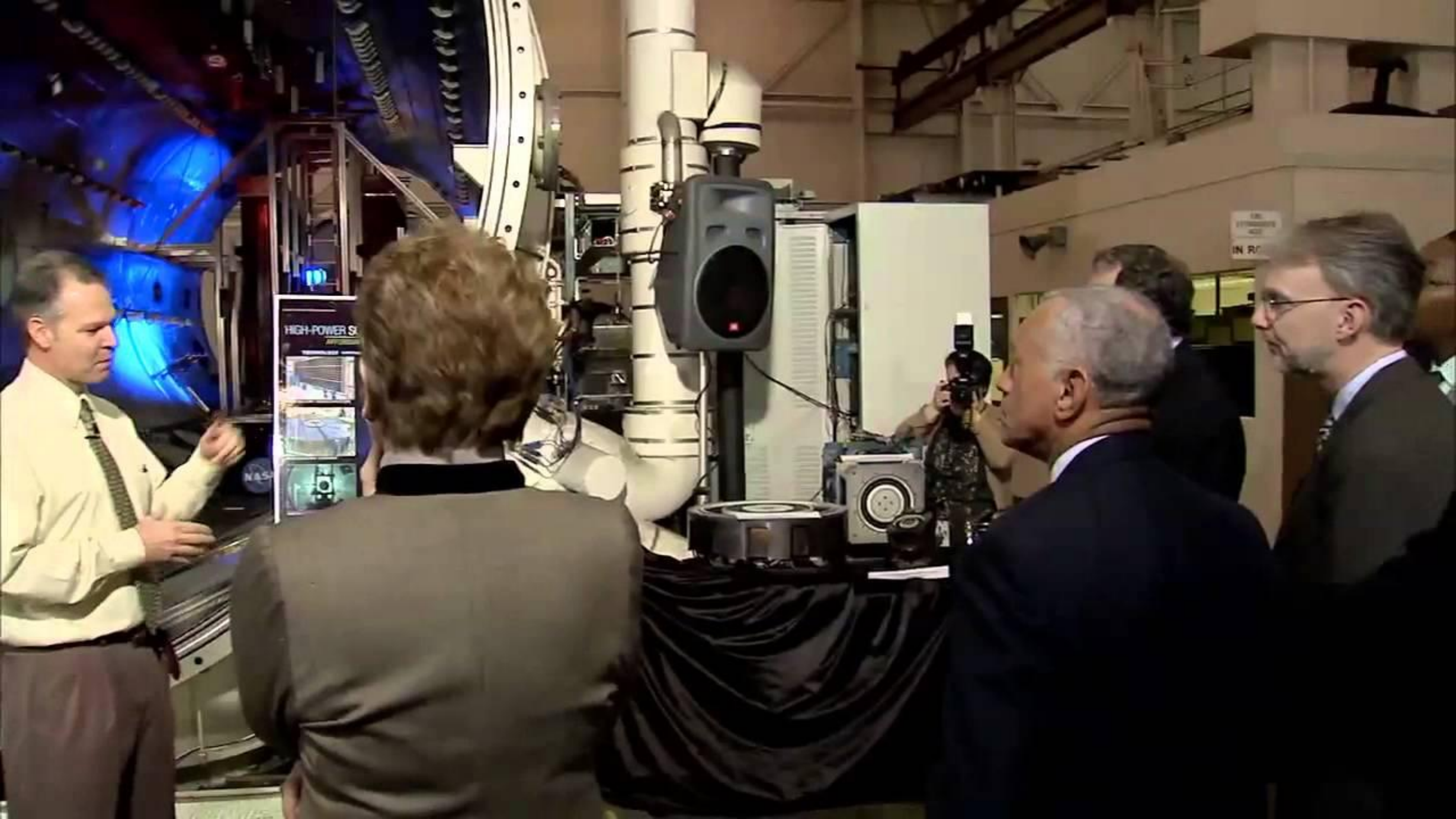

1
00:00:01,069 --> 00:00:05,250
Here's some of the stories trending This Week
at NASA!

2
00:00:05,250 --> 00:00:10,030
Orbital Sciences' Cygnus spacecraft has made
the company's first contracted resupply flight

3
00:00:10,030 --> 00:00:15,730
to the International Space Station -- delivering
more than 27-hundred pounds of cargo -- including

4
00:00:15,730 --> 00:00:18,450
dozens of new science experiments.

5
00:00:18,450 --> 00:00:22,539
Orbital Sciences becomes NASA's second commercial
ISS resupply partner.

6
00:00:22,539 --> 00:00:28,699
Just called to congratulate both the flight
crew, the crew on the ground and particularly

7
00:00:28,699 --> 00:00:33,800
Orbital and those folks for a fantastic day
of getting Cygnus berthed

8
00:00:33,800 --> 00:00:39,469
Administrator Charlie Bolden made his congratulatory
call to the NASA and Orbital teams while visiting

9
00:00:39,469 --> 00:00:44,030
Michoud Assembly Facility with Senator David
Vitter of Louisiana.

10
00:00:44,030 --> 00:00:48,290
The pair was updated on construction of the
manufacturing facility that will produce the

11

00:00:48,290 --> 00:00:54,039
massive core stage of NASA's Space Launch System and progress on launching the heavy-lift

12
00:00:54,039 --> 00:00:57,970
rocket on its first flight test in 2017.

13
00:00:57,970 --> 00:01:02,340
At Marshall Space Flight Center, the flight software and avionics hardware for the SLS

14
00:01:02,340 --> 00:01:07,670
were integrated and powered for testing, as part of a milestone known as first light.

15
00:01:07,670 --> 00:01:12,080
The milestone enables early testing to help ensure the units communicate with each other

16
00:01:12,080 --> 00:01:14,230
as designed.

17
00:01:14,230 --> 00:01:18,110
Avionics tell the rocket where it should fly and how to stay on course.

18
00:01:18,110 --> 00:01:24,490
The SLS avionics and the flight computer will be housed in the completed rocket's core stage.

19
00:01:24,490 --> 00:01:29,479
Charlie Bolden visited Glenn Research Center where Director Jim Free showed the Administrator

20
00:01:29,479 --> 00:01:34,759
some of the latest advanced space propulsion technologies the center is developing.

21
00:01:34,759 --> 00:01:39,280
Included on the tour was Glenn's Electric

Propulsion Laboratory, which is being enhanced

22
00:01:39,280 --> 00:01:45,340
for future testing of solar electric propulsion
technologies, including those supporting NASA's

23
00:01:45,340 --> 00:01:51,680
proposed asteroid initiative, which involves
identifying, capturing and relocating an asteroid

24
00:01:51,680 --> 00:01:53,940
for astronauts to explore.

25
00:01:53,940 --> 00:02:01,380
NASA's TDRS-L, the second of three next-generation
Tracking and Data Relay Satellites, was encapsulated

26
00:02:01,380 --> 00:02:06,409
into its payload fairing at the Astrotech
processing facility near Kennedy Space Center

27
00:02:06,409 --> 00:02:12,080
in Florida and later moved to Cape Canaveral
Air Force Station in preparation for its January

28
00:02:12,080 --> 00:02:13,730
23 launch.

29
00:02:13,730 --> 00:02:18,820
TDRS-L and its predecessors provide tracking,
telemetry, command and high bandwidth data

30
00:02:18,820 --> 00:02:25,580
return services for NASA science and human
exploration missions orbiting Earth.

31
00:02:25,580 --> 00:02:28,850
Administrator Bolden participated in the Martin
Luther King, Jr.

32
00:02:28,850 --> 00:02:31,690
Day of Remembrance at NASA Headquarters.

33
00:02:31,690 --> 00:02:36,060
The annual event, sponsored by the headquarters
Chapter of Blacks in Government, featured

34
00:02:36,060 --> 00:02:41,600
several speakers and celebrated the continuing
impact of Dr. King's work and philosophy.

35
00:02:41,600 --> 00:02:43,730
And that's what's up ... This Week at NASA.