TW@N

THIS WEEK @ NASA

1
00:00:00,220 --> 00:00:02,230
An update on our Artemis I mission …

2
00:00:02,230 --> 00:00:04,660
Test firing an Artemis rocket engine …

3
00:00:04,660 --> 00:00:09,470
And a resupply mission delivers to the space
station … a few of the stories to tell you

4
00:00:09,470 --> 00:00:14,040
about – This Week at NASA!

5
00:00:14,040 --> 00:00:18,900
Teams at our Kennedy Space Center in Florida
are assessing schedules and continuing preparations

6
00:00:18,900 --> 00:00:24,550
with our Space Launch System or SLS rocket
and Orion spacecraft, ahead of the upcoming

7
00:00:24,550 --> 00:00:27,550
uncrewed Artemis I mission around the Moon.

8
00:00:27,550 --> 00:00:33,230
We are currently targeting no earlier than
March 17 for rollout of the combined spacecraft

9
00:00:33,230 --> 00:00:39,070
to Launch Pad 39B for final testing – including
the wet dress rehearsal test, which is now

10
00:00:39,070 --> 00:00:41,750
targeted for early April.

11
00:00:41,750 --> 00:00:46,730
Launch of Artemis I is still being targeted
for the early May timeframe, but activities

12
00:00:46,730 --> 00:00:49,058
with other scheduled launches at Kennedy

13
00:00:49,058 --> 00:00:53,079
could require mission managers to reevaluate that timeframe.

14
00:00:53,079 --> 00:00:58,800
Learn more about the Artemis I mission at:
nasa.gov/artemis-1.

15
00:00:58,800 --> 00:01:05,170
Engineers at our Stennis Space Center conducted
an RS-25 engine hot fire test on Feb. 24.

16
00:01:05,170 --> 00:01:11,240
Four RS-25s will help power our Space Launch
System rocket on future Artemis deep-space

17
00:01:11,240 --> 00:01:15,940
missions, including this year’s uncrewed
Artemis I mission around the Moon.

18
00:01:15,940 --> 00:01:21,330
This was the fourth overall test in the current
test series which began in mid-December.

19
00:01:21,330 --> 00:01:27,060
On Feb. 21, Northrop Grumman’s Cygnus spacecraft
arrived at the International Space Station

20
00:01:27,060 --> 00:01:31,665
two days after launching from our Wallops
Flight Facility in Virginia.

21
00:01:31,665 --> 00:01:37,010
NASA astronauts Raja Chari and Kayla Barron
teamed up to capture the Cygnus, which was

22
00:01:37,010 --> 00:01:44,010

loaded with about 8,300 pounds of cargo, including important research and critical hardware.

23
00:01:44,010 --> 00:01:49,159
This is also the first Cygnus mission to feature enhanced capabilities of the spacecraft that

24
00:01:49,159 --> 00:01:55,180
allow it to use its engines to perform a reboost of the station as a standard service for NASA.

25
00:01:55,180 --> 00:01:58,685
A reboost is used to adjust the station’s orbit.

26
00:01:58,685 --> 00:02:03,890
NASA and partner agency NOAA are targeting March 1 for the launch of NOAA’s GOES-T

27
00:02:03,890 --> 00:02:07,130
satellite from Cape Canaveral Space Force Station in Florida.

28
00:02:07,130 --> 00:02:12,400
GOES-T is the third weather observing and environmental monitoring system satellite

29
00:02:12,400 --> 00:02:14,440
in the GOES-R series.

30
00:02:14,440 --> 00:02:19,860
GOES-T will be renamed GOES-18 once it reaches geostationary orbit.

31
00:02:19,860 --> 00:02:25,280
Then, after successfully completing an orbital checkout of its instruments and systems, it

32
00:02:25,280 --> 00:02:31,030
will go into operational service as GOES West

- providing critical data for the U.S. West

33
00:02:31,030 --> 00:02:36,560
Coast, Alaska, Hawaii, Mexico, Central America,
and the Pacific Ocean.

34
00:02:36,560 --> 00:02:42,000
Feb. 20 was the 60th anniversary of the Mercury-Atlas
6 mission during which

35
00:02:42,000 --> 00:02:46,310
late astronaut John Glenn became the first American to orbit Earth.

36
00:02:46,310 --> 00:02:52,430
Glenn’s three-orbit flight aboard the Friendship
7 spacecraft lasted nearly 5 hours – ending

37
00:02:52,430 --> 00:02:58,020
with a splashdown landing near the Turks and
Caicos Islands, about 800 miles southeast

38
00:02:58,020 --> 00:02:59,569
of Cape Canaveral.

39
00:02:59,569 --> 00:03:05,300
He was celebrated as a hero across America
and went on to serve several terms as a U.S.

40
00:03:05,300 --> 00:03:07,330
senator representing Ohio.

41
00:03:07,330 --> 00:03:13,629
Then in 1998, when he was 77, he returned
to space aboard space shuttle Discovery to

42
00:03:13,629 --> 00:03:17,739
participate in a series of tests on the aging
process.

43

00:03:17,739 --> 00:03:22,099
Glenn passed away in December 2016 at the age of 95.