
TW@N
THIS WEEK @ NASA

1
00:00:00,320 --> 00:00:04,720
An update on the recent Green Run hot fire test …
Preflight preparations continue with\h\h

2
00:00:04,720 --> 00:00:07,440
the Orion spacecraft …
And a new view of small\h\h

3
00:00:07,440 --> 00:00:11,520
solar structures … a few of the stories\h
to tell you about – This Week at NASA!
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4
00:00:12,560 --> 00:00:17,360
Preliminary review following our Jan.\h
16 hot fire test of the core stage of\h\h

5
00:00:17,360 --> 00:00:22,160
our Space Launch System rocket shows that the\h
rocket’s hardware is in excellent condition.\h\h

6
00:00:22,720 --> 00:00:27,360
Officials say the shutdown of the planned\h
eight minute test, just over a minute into the\h\h

7
00:00:27,360 --> 00:00:33,280
firing was triggered by conservative parameters\h
intentionally put in place for ground testing,\h\h

8
00:00:33,280 --> 00:00:39,280
to ensure the safety of the core stage when it is\h
mounted in the B-2 test stand. If this scenario\h\h

9
00:00:39,280 --> 00:00:44,960
occurred during an actual flight the rocket would\h
have continued to fly. The team is evaluating next\h\h

10
00:00:44,960 --> 00:00:50,720
steps for SLS, which will launch an uncrewed Orion\h
spacecraft to the Moon on our Artemis I mission.

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11
00:00:51,360 --> 00:00:56,480
Meanwhile, the Orion spacecraft is a step closer\h
to being ready for the Artemis I mission to the\h\h

12
00:00:56,480 --> 00:01:01,280
Moon. Engineers at our Kennedy Space Center\h
recently finished installing and testing\h\h

13
00:01:01,280 --> 00:01:06,720
components, systems and subsystems to ensure\h
the spacecraft can accomplish the mission.\h\h

14
00:01:06,720 --> 00:01:11,280
Orion was then moved to another facility\h
for fueling – marking the spacecraft's\h\h

15
00:01:11,280 --> 00:01:15,600
transition from the manufacturing and\h
assembly stage to preflight processing.
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16
00:01:16,720 --> 00:01:21,120
Data from our Solar Dynamics Observatory\h
and cutting-edge image processing have given\h\h

17
00:01:21,120 --> 00:01:25,920
scientists an unprecedented look at small\h
solar structures called "plumelets" within\h\h

18
00:01:25,920 --> 00:01:32,000
the geyser-like solar plumes we see that stream\h
material from the Sun into space, and play a large\h\h

19
00:01:32,000 --> 00:01:37,840
role in creating the high-speed solar wind. This\h
new detailed look suggests these "plumelets" are\h\h

20
00:01:37,840 --> 00:01:43,040

not just a feature of the plumes, but rather are\h
the building blocks from which plumes are made.\h\h

21
00:01:43,040 --> 00:01:48,240
The research could help scientists understand\h
how and why disturbances form in the solar wind.
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22
00:01:49,520 --> 00:01:55,360
Jan. 23 marks the 80th anniversary of our Glenn\h
Research Center in Cleveland Ohio. The center\h\h

23
00:01:55,360 --> 00:02:01,440
began as the Aircraft Engine Research Laboratory\h
in 1941 – a national resource for innovation in\h\h

24
00:02:01,440 --> 00:02:06,720
aircraft engine technology. Over the decades\h
the center’s work in both aviation and space\h\h

25
00:02:06,720 --> 00:02:11,920
exploration has given the U.S. a leading role\h
in the aerospace industry – including current\h\h

26
00:02:11,920 --> 00:02:17,280
work advancing next-generation aircraft\h
and innovative technology to enable NASA’s\h\h

27
00:02:17,280 --> 00:02:22,800
space exploration missions, including upcoming\h
Artemis missions to land humans on the Moon.
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28
00:02:25,360 --> 00:02:30,640
Our NASA family is remembering NASA\h
Television Production Manager Cliff Feldman,\h\h

29
00:02:30,640 --> 00:02:39,120
who passed away Jan. 14 from COVID-19. His storied\h
television career as a videographer and producer\h\h

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00:02:39,120 --> 00:02:45,600
included work at ABC, CBS, FOX and\h
elsewhere before coming to NASA in 2005.\h\h

31
00:02:46,400 --> 00:02:51,600
He played a major role in the success of some\h
of the agency’s highest profile productions,\h\h

32
00:02:51,600 --> 00:02:58,320
including the Apollo 50th Anniversary special,\h
and nationwide coverage of the 2017 total solar\h\h

33
00:02:58,320 --> 00:03:04,400
eclipse. His diligent, yet uniquely relaxed\h
work ethic earned him the appreciation and\h\h

34
00:03:04,400 --> 00:03:09,520
respect of colleagues and clients alike –\h
many of whom considered him to be the heart\h\h

35
00:03:09,520 --> 00:03:16,000
and soul of NASA TV, and also consider themselves\h
fortunate to have known him as a trusted friend.\h\h

36
00:03:17,440 --> 00:03:22,240
If the measure of a life well lived is\h
by the number of lives one has touched,\h\h

37
00:03:23,120 --> 00:03:26,000
then Cliff Feldman lived one heck of a life!\h\h