
SpacetoGround

1
00:00:02,696 --> 00:00:04,656
"HOUSTON, STATION
ON SPACE TO GROUND."

2
00:00:05,336 --> 00:00:07,816
WELCOME TO SPACE TO
GROUND, I'M LEAH CHESHIER.

3
00:00:08,206 --> 00:00:09,836
TWO ASTRONAUTS HAVE
BEEN PREPARING

4
00:00:09,840 --> 00:00:11,960
FOR THEIR FIRST TRIP
OUTSIDE THE HATCH.

5
00:00:13,420 --> 00:00:16,296
ON MARCH 22, NASA
ASTRONAUTS ANNE MCCLAIN

6
00:00:16,296 --> 00:00:18,936
AND NICK HAGUE ARE VENTURING
OUTSIDE OF THE AIRLOCK

7
00:00:19,016 --> 00:00:21,686
FOR A DAY'S WORTH OF WORK
UPGRADING THE SPACE STATION'S

8
00:00:21,746 --> 00:00:23,016
POWER STORAGE CAPACITY.

9
00:00:23,606 --> 00:00:25,856
THIS IS THE FIRST OF
TWO SPACEWALKS TO SWAP

10
00:00:25,856 --> 00:00:29,836
OUT 12 NICKEL-HYDROGEN BATTERIES
FOR 6 LITHIUM-ION BATTERIES,

11

00:00:30,046 --> 00:00:31,236
WHICH ARRIVED TO THE STATION

12
00:00:31,236 --> 00:00:35,166
IN SEPTEMBER 2018 ABOARD THE
JAPANESE AEROSPACE EXPLORATION

13
00:00:35,196 --> 00:00:37,386
AGENCY'S HTV-7 VEHICLE.

14
00:00:38,146 --> 00:00:41,436
DURING THE WEEK, ROBOTICS
CONTROLLERS USED THE CANADARM 2

15
00:00:41,536 --> 00:00:43,566
TO MOVE THE BATTERIES
FROM THEIR STORAGE SPOT

16
00:00:43,566 --> 00:00:45,656
ON AN EXPOSED PALLET,
IN PREPARATION

17
00:00:45,706 --> 00:00:48,426
FOR ROBOTIC INSTALLATION ONCE
THE CREW HAS FINISHED THEIR

18
00:00:48,516 --> 00:00:50,106
SPACEWALKING TASKS.

19
00:00:50,436 --> 00:00:52,466
THIS SPACEWALK IS PART
OF A LARGER MISSION

20
00:00:52,506 --> 00:00:55,066
TO REPLACE ALL 48
NICKEL-HYDROGEN BATTERIES

21
00:00:55,066 --> 00:00:58,526
ON THE SPACE STATION WITH 24
NEW LITHIUM-ION BATTERIES.

22
00:00:59,116 --> 00:01:00,696
TO KEEP UP WITH SPACEWALK
COVERAGE,

23
00:01:00,776 --> 00:01:04,286
FOLLOW THE SPACE STATION ON
TWITTER AT @SPACE_STATION

24
00:01:04,500 --> 00:01:07,960
OR ON FACEBOOK AT
FACEBOOK.COM/ISS.

25
00:01:09,620 --> 00:01:12,296
THIS WEEK, ASTRONAUTS NEW
TO THE SPACE STATION TRIED

26
00:01:12,296 --> 00:01:14,656
ON THEIR SPACE SUITS TO
ENSURE A PERFECT FIT.

27
00:01:15,346 --> 00:01:19,496
NASA ASTRONAUTS CHRISTINA
KOCH AND NICK HAGUE PREPARED

28
00:01:19,496 --> 00:01:22,496
FOR UPCOMING SPACEWALKS DURING
AN ON-ORBIT VERIFICATION TEST

29
00:01:22,696 --> 00:01:23,796
ON MARCH 18.

30
00:01:24,256 --> 00:01:27,246
THE PAIR, WHICH JUST ARRIVED TO
THE SPACE STATION ON MARCH 14,

31
00:01:27,546 --> 00:01:29,236
DONNED THEIR SUITS
IN THE QUEST AIRLOCK

32
00:01:29,326 --> 00:01:31,766
FOR AN END-TO-END TEST
OF ALL SUIT SYSTEMS.

33
00:01:32,386 --> 00:01:35,246
A PROPER FIT IS IMPERATIVE
FOR MAXIMUM MOBILITY WHILE

34
00:01:35,246 --> 00:01:36,856
IN THE PRESSURIZED SUIT, AS WELL

35
00:01:36,856 --> 00:01:39,126
AS SAFETY DURING THE
EXTRAVEHICULAR ACTIVITY

36
00:01:39,126 --> 00:01:40,246
IN THE VACUUM OF SPACE.

37
00:01:41,406 --> 00:01:43,306
WE HAVE A QUESTION
FROM 5TH GRADER OLIVIA,

38
00:01:43,536 --> 00:01:45,316
WHO WONDERS HOW LONG
IT TAKES TO GET

39
00:01:45,316 --> 00:01:46,386
TO THE SPACE STATION FROM EARTH.

40
00:01:46,386 --> 00:01:49,556
AS WE SAW WITH THE
EXPEDITION 59 LAUNCH,

41
00:01:49,686 --> 00:01:50,876
IT DOESN'T TAKE LONG AT ALL.

42
00:01:52,676 --> 00:01:56,036
AT ONE TIME, IT TOOK ASTRONAUTS
AND COSMONAUTS ABOUT TWO DAYS

43
00:01:56,116 --> 00:01:57,736
TO REACH THE SPACE
STATION FROM EARTH.

44
00:01:58,446 --> 00:02:01,456
NOW, A CREW ABOARD THE RUSSIAN
SOYUZ SPACECRAFT CAN ARRIVE

45
00:02:01,456 --> 00:02:03,936
AT THE INTERNATIONAL
SPACE STATION IN AS LITTLE

46
00:02:04,196 --> 00:02:05,566
AS 6 HOURS AFTER LAUNCH.