



SPACE TO GROUND

1
00:00:00,386 --> 00:00:03,406
"HOUSTON, STATION
ON SPACE TO GROUND."

2
00:00:03,406 --> 00:00:05,746
ANOTHER WEEK OF ROBOTS
AND SPACEWALKS.

3
00:00:05,746 --> 00:00:10,206
WELCOME TO SPACE TO
GROUND, I'M DAN HUOT.

4
00:00:10,586 --> 00:00:13,186
A BIT OF DÉJÀ VU
THIS WEEK AS ROBOTIC WORK

5
00:00:13,226 --> 00:00:15,996
TO INSTALL NEW BATTERIES
WRAPPED UP ON THE STATION.

6
00:00:16,726 --> 00:00:19,926
GROUND CONTROLLERS CONTINUED
USING THE DEXTRE ROBOT

7
00:00:20,176 --> 00:00:23,056
TO INSTALL NEW BATTERIES FOR
THE STATION'S POWER SYSTEM.

8
00:00:23,786 --> 00:00:27,646
LITHIUM ION BATTERIES REPLACED
OLD NICKEL-HYDROGEN BATTERIES

9
00:00:27,926 --> 00:00:31,036
AND WILL BE USED TO STORE
ELECTRICAL ENERGY GENERATED

10
00:00:31,036 --> 00:00:32,606
BY THE STATION'S SOLAR ARRAYS

11

00:00:32,976 --> 00:00:35,056
FOR USE WHILE THE
STATION IS IN DARKNESS.

12
00:00:35,826 --> 00:00:38,656
THE LAST OF THE SIX NEW
BATTERIES WAS INSTALLED

13
00:00:38,696 --> 00:00:39,436
TUESDAY NIGHT.

14
00:00:39,856 --> 00:00:43,566
AS FOR THE 12 OLD BATTERIES,
THREE WILL REMAIN ON STATION

15
00:00:43,566 --> 00:00:48,466
BUT UNCONNECTED AND NINE WILL BE
PACKED INSIDE THE JAPANESE HTV-6

16
00:00:48,796 --> 00:00:51,326
TO BURN UP IN THE ATMOSPHERE
WHEN THE VEHICLE DEPARTS

17
00:00:51,386 --> 00:00:52,746
AT THE END OF JANUARY.

18
00:00:53,486 --> 00:00:55,916
AND ANOTHER FRIDAY
SPACEWALK TOOK PLACE

19
00:00:55,916 --> 00:00:57,736
FOR THE EXPEDITION 50 CREW.

20
00:00:58,676 --> 00:01:00,166
COMMANDER SHANE KIMBROUGH

21
00:01:00,166 --> 00:01:03,306
AND FLIGHT ENGINEER THOMAS
PESQUET SUITED UP THIS TIME

22

00:01:03,606 --> 00:01:06,726
AND SPENT SEVERAL HOURS
WORKING OUTSIDE THE STATION.

23

00:01:06,726 --> 00:01:08,796
THEY COMPLETED THEIR
PRIMARY TASK

24

00:01:08,876 --> 00:01:12,096
TO INSTALL THREE ADAPTER PLATES
ON THE ELECTRICAL ASSEMBLY

25

00:01:12,096 --> 00:01:13,316
WHERE THE BATTERIES RESIDE,

26

00:01:13,726 --> 00:01:16,636
AND RELOCATE ONE OLD
NICKEL HYDROGEN BATTERY

27

00:01:16,636 --> 00:01:17,996
THAT WILL NO LONGER BE USED.

28

00:01:18,536 --> 00:01:21,516
THEY ALSO CONNECTED DATA CABLES
BETWEEN THE NEW BATTERIES

29

00:01:21,616 --> 00:01:24,046
AND THE ADAPTER PLATES THAT
ALLOWED GROUND CONTROLLERS

30

00:01:24,356 --> 00:01:26,646
TO DO THEIR INITIAL
CHECKS ON THE NEW CELLS.

31

00:01:26,646 --> 00:01:29,486
AND THEY ALSO KNOCKED
OUT A FEW GET AHEAD TASK.

32

00:01:30,066 --> 00:01:32,276

THIS WAS THE FOURTH
SPACEWALK FOR KIMBROUGH

33

00:01:32,276 --> 00:01:33,776
AND THE FIRST FOR PESQUET.

34

00:01:34,576 --> 00:01:36,786
THIS WEEK, GEOFF
RYKEN ON TWITTER WANTS

35

00:01:36,786 --> 00:01:39,406
TO KNOW HOW LONG THE
NICKEL-HYDROGEN BATTERIES BEING

36

00:01:39,406 --> 00:01:40,826
REPLACED HAVE BEEN OPERATING.

37

00:01:40,826 --> 00:01:44,406
IT'S BEEN QUITE A WHILE, AND
THEY CERTAINLY ARRIVED IN STYLE.

38

00:01:45,286 --> 00:01:47,516
THE NICKEL-HYDROGEN
BATTERIES THAT WERE SWAPPED

39

00:01:47,516 --> 00:01:50,436
OUT OVER THE LAST FEW WEEKS
ARRIVED DURING SHUTTLE MISSION

40

00:01:50,786 --> 00:01:55,716
STS-117 WHICH TOOK
PLACE BACK IN JUNE 2007.

41

00:01:55,826 --> 00:01:58,096
RIDING IN THE BACK OF
SPACE SHUTTLE ATLANTIS,

42

00:01:58,336 --> 00:02:00,916
AN ENTIRE SECTION OF
THE STARBOARD TRUSS,

43

00:02:01,176 --> 00:02:03,906
WHICH IS THE MAIN SUPPORT
STRUCTURE, WAS DELIVERED

44

00:02:03,906 --> 00:02:06,536
AND INSTALLED USING THE
STATION'S ROBOTIC ARM.

45

00:02:07,106 --> 00:02:09,396
THE TWELVE BATTERIES
WERE ALREADY INSTALLED

46

00:02:09,456 --> 00:02:11,376
WITHIN THE NEW TRUSS
AND WERE READY

47

00:02:11,376 --> 00:02:14,546
TO STORE POWER ONCE THE CREW
DEPLOYED THE NEW SOLAR ARRAY

48

00:02:14,806 --> 00:02:16,096
THAT ALSO MADE THE TRIP UP.

49

00:02:16,906 --> 00:02:19,426
KEEP SENDING YOUR
QUESTIONS USING THE HASHTAG