

1200 INSTRUMENTS
400 MILLION
INSTRUCTIONS PER SECOND



12/5/2014 07:13:15
Eastern Standard Time

AVIONICS AND SOFTWARE

1
00:00:07,199 --> 00:00:04,290
in the vehicle that we see here today

2
00:00:13,560 --> 00:00:07,209
it's not a PowerPoint chart it's a real

3
00:00:15,360 --> 00:00:13,570
spacecraft they're ready to fly that is

4
00:00:19,259 --> 00:00:15,370
the most important thing for all of you

5
00:00:20,880 --> 00:00:19,269
to get this flight test was the first

6
00:00:25,290 --> 00:00:20,890
step in realizing our ultimate goal

7
00:00:25,300 --> 00:00:32,619
- one and liftoff at dawn

8
00:00:32,629 --> 00:00:43,830
of American space exploration

9
00:00:47,200 --> 00:00:45,670
this is you know one of the best

10
00:00:48,790 --> 00:00:47,210
navigation systems that's ever been

11
00:00:52,570 --> 00:00:48,800
designed or implemented it's

12
00:00:54,190 --> 00:00:52,580
unbelievably robust and intelligent it

13
00:00:58,619 --> 00:00:54,200

can do all sorts of smart fault

14

00:01:03,119 --> 00:01:00,959

we all eagerly anticipated the climb of

15

00:01:05,820 --> 00:01:03,129

Orion from low Earth orbit to its Apogee

16

00:01:07,830 --> 00:01:05,830

over 3600 miles from Earth and there it

17

00:01:09,960 --> 00:01:07,840

was we had a view out the window and we

18

00:01:13,270 --> 00:01:09,970

could see the curvature just like back

19

00:01:15,100 --> 00:01:13,280

in the Apollo days amazing sight

20

00:01:17,469 --> 00:01:15,110

this flight test went through the Van

21

00:01:18,820 --> 00:01:17,479

Allen belts not just once but twice and

22

00:01:20,680 --> 00:01:18,830

this flight test proved that the

23

00:01:26,219 --> 00:01:20,690

avionics inside are I'm able to handle

24

00:01:29,840 --> 00:01:28,109

the teaching online is the largest heat

25

00:01:31,800 --> 00:01:29,850

shield ever made

26

00:01:34,020 --> 00:01:31,810

Orion came home hit the Earth's

27

00:01:39,580 --> 00:01:34,030

atmosphere at a blazing 20,000 miles an

28

00:01:43,480 --> 00:01:41,620

it really helped I think put the

29

00:01:46,840 --> 00:01:43,490

exclamation point on the mission to see

30

00:01:48,669 --> 00:01:46,850

that capsule coming in as fast as we

31

00:01:49,959 --> 00:01:48,679

expected it and then to see the

32

00:01:52,330 --> 00:01:49,969

parachutes deploy there's really not

33

00:01:54,580 --> 00:01:52,340

been a film of that kind of deployment

34

00:01:59,810 --> 00:01:54,590

or how dynamic that phase is so I think

35

00:02:05,660 --> 00:02:02,360

space brown for an engineer it may be as

36

00:02:06,700 --> 00:02:05,670

cool as an artist appreciating fine art

37

00:02:09,650 --> 00:02:06,710

in the museum

38

00:02:11,450 --> 00:02:09,660

USS Anchorage successfully recovered the

39

00:02:14,330 --> 00:02:11,460

NASA Orion space capsule from the

40

00:02:17,530 --> 00:02:14,340

Pacific Ocean all that coming together

41

00:02:19,809 --> 00:02:17,540

is pretty special

42

00:02:21,490 --> 00:02:19,819

I'm sure you were all as proud as I want