



1
00:00:09,169 --> 00:00:06,670

[Music]

2
00:00:10,400 --> 00:00:09,179

hi I'm Vince Whitfield with a NASA

3
00:00:13,370 --> 00:00:10,410

scientific and technical information

4
00:00:15,589 --> 00:00:13,380

program today we're at Kennedy Space

5
00:00:18,890 --> 00:00:15,599

Center where we were able to witness the

6
00:00:20,960 --> 00:00:18,900

successful launch of Falcon 9 a rocket

7
00:00:24,200 --> 00:00:20,970

manufactured by one of NASA's commercial

8
00:00:26,240 --> 00:00:24,210

providers SpaceX did you know that

9
00:00:28,519 --> 00:00:26,250

Kennedy Space Center is home of NASA's

10
00:00:30,169 --> 00:00:28,529

Commercial Crew program the program

11
00:00:31,640 --> 00:00:30,179

provides human access to the

12
00:00:34,280 --> 00:00:31,650

International Space Station and

13
00:00:37,580 --> 00:00:34,290

low-earth orbit by the commercial sector

14

00:00:39,139 --> 00:00:37,590

a particular challenge to NASA has been

15

00:00:41,600 --> 00:00:39,149

how to determine that commercial

16

00:00:43,010 --> 00:00:41,610

providers transportation systems comply

17

00:00:45,470 --> 00:00:43,020

with the programmatic safety

18

00:00:47,389 --> 00:00:45,480

requirements the safety technical review

19

00:00:49,279 --> 00:00:47,399

board refused and approved the hazard

20

00:00:51,080 --> 00:00:49,289

report submitted by the commercial

21

00:00:52,160 --> 00:00:51,090

providers historically

22

00:00:54,080 --> 00:00:52,170

all of these safety critical

23

00:00:56,270 --> 00:00:54,090

verifications were typically confirmed

24

00:00:57,650 --> 00:00:56,280

by NASA alone but this traditional

25

00:00:59,240 --> 00:00:57,660

safety and mission assurance model

26
00:01:01,360 --> 00:00:59,250
doesn't support the nature of the

27
00:01:03,740 --> 00:01:01,370
Commercial Crew program

28
00:01:06,080 --> 00:01:03,750
NASA's solution to this challenge is

29
00:01:08,090 --> 00:01:06,090
implementing a risk-based assurance

30
00:01:09,920 --> 00:01:08,100
process to determine which hazard

31
00:01:13,910 --> 00:01:09,930
control verifications require an asset

32
00:01:15,620 --> 00:01:13,920
authentication for more information

33
00:01:17,570 --> 00:01:15,630
about NASA's risk-based assurance

34
00:01:19,700 --> 00:01:17,580
process you can find the conference

35
00:01:21,320 --> 00:01:19,710
paper titles of the evolution of the

36
00:01:23,749 --> 00:01:21,330
NASA Commercial Crew program mission

37
00:01:25,390 --> 00:01:23,759
assurance process on the nasa technical

38
00:01:28,039 --> 00:01:25,400

report server for mtrs

39

00:01:30,319 --> 00:01:28,049

the mtrs is one of the world's largest

40

00:01:32,300 --> 00:01:30,329

repositories of aerospace SPI and

41

00:01:34,690 --> 00:01:32,310

features records ranging from an app

42

00:01:37,429 --> 00:01:34,700

error to today's cutting-edge research

43

00:01:39,130 --> 00:01:37,439

that's all for today thanks for watching