
United States

1
00:00:08,920 --> 00:00:05,970
[Music]

2
00:00:11,750 --> 00:00:08,930
[Laughter]

3
00:00:13,850 --> 00:00:11,760
NASA is about to embark on the age of

4
00:00:16,190 --> 00:00:13,860
practical spaceflight with the first

5
00:00:18,440 --> 00:00:16,200
orbital flights of the space shuttle an

6
00:00:19,150 --> 00:00:18,450
orbital vehicle the size of a medium jet

7
00:00:22,400 --> 00:00:19,160
airliner

8
00:00:27,380 --> 00:00:25,490
during 1977 the Trident Center undertook

9
00:00:29,420 --> 00:00:27,390
the first approach and landing tests of

10
00:00:32,649 --> 00:00:29,430
the space shuttle air launching it from

11
00:00:51,100 --> 00:00:32,659
the back of a Boeing 747

12
00:00:51,110 --> 00:00:58,610
[Music]

13
00:01:02,930 --> 00:01:00,799

a special aerodynamic fairing was

14
00:01:05,000 --> 00:01:02,940
installed on the tail of the shuttle to

15
00:01:08,480 --> 00:01:05,010
smooth the airflow around the vertical

16
00:01:10,550 --> 00:01:08,490
fin of the 747 eventually however NASA

17
00:01:12,590 --> 00:01:10,560
tested the Space Shuttle without the

18
00:01:14,480 --> 00:01:12,600
tail fairing in order to assess its

19
00:01:16,240 --> 00:01:14,490
performance in the configuration it will

20
00:01:53,090 --> 00:01:16,250
have when returning from Earth orbit

21
00:01:57,710 --> 00:01:55,740
the tests demonstrated that the shuttle

22
00:02:00,180 --> 00:01:57,720
has acceptable landing performance

23
00:02:07,410 --> 00:02:00,190
another milestone in the Space Shuttle

24
00:02:07,420 --> 00:03:14,990
[Music]

25
00:03:19,790 --> 00:03:16,850
eventually when the Space Shuttle

26
00:03:21,110 --> 00:03:19,800
becomes operational NASA will launch the

27
00:03:22,040 --> 00:03:21,120
space shuttle from the NASA Kennedy

28
00:03:29,110 --> 00:03:22,050
Space Center

29
00:03:35,080 --> 00:03:32,460
the shuttle will be boosted into orbit

30
00:03:35,790 --> 00:03:35,090
place a scientific payload into Earth

31
00:03:45,210 --> 00:03:35,800
orbit

32
00:03:53,340 --> 00:03:52,020
position itself for re-entry re-enter

33
00:03:56,970 --> 00:03:53,350
the Earth's atmosphere at hypersonic

34
00:04:01,410 --> 00:03:56,980
speed and glide down to a landing on

35
00:04:03,600 --> 00:04:01,420
Rogers dry lane that milestone of flight

36
00:04:05,010 --> 00:04:03,610
will represent another chapter in the

37
00:04:08,190 --> 00:04:05,020
history of the NASA Dryden Flight

38
00:04:10,500 --> 00:04:08,200

Research Center a center with a long

39
00:04:13,350 --> 00:04:10,510
heritage of accomplishment a center

40
00:04:15,210 --> 00:04:13,360
looking forward accepting new challenges