



1
00:00:54,990 --> 00:00:52,770
the history of nasa's dryden flight

2
00:00:56,820 --> 00:00:55,000
research facility is filled with many

3
00:00:59,070 --> 00:00:56,830
accomplishments that led to it becoming

4
00:01:02,610 --> 00:00:59,080
the premier high-speed flight research

5
00:01:05,250 --> 00:01:02,620
center in the nation from the x1 to the

6
00:01:07,800 --> 00:01:05,260
x31 Dryden has been at the forefront of

7
00:01:10,710 --> 00:01:07,810
research innovations as we enter the

8
00:01:18,959 --> 00:01:10,720
21st century Dryden is again ready to

9
00:01:25,240 --> 00:01:22,240
this is the idea the integrated test

10
00:01:27,550 --> 00:01:25,250
facility the ITF is a tailor-made Center

11
00:01:29,950 --> 00:01:27,560
for the efficient and thorough testing

12
00:01:34,300 --> 00:01:29,960
of advanced highly integrated planes of

13
00:01:37,120 --> 00:01:34,310

the future the design of the ITF with

14

00:01:39,940 --> 00:01:37,130

its six test phase simulation labs and

15

00:01:41,859 --> 00:01:39,950

support systems is well suited to meet

16

00:01:43,990 --> 00:01:41,869

the challenges in the research of

17

00:01:48,399 --> 00:01:44,000

tomorrow's complex highly advanced

18

00:01:51,550 --> 00:01:48,409

aircraft the thrust vectoring f-18 high

19

00:01:54,190 --> 00:01:51,560

alpha research vehicle x31 aircraft and

20

00:01:56,559 --> 00:01:54,200

the x 13 asp the national aerospace

21

00:02:04,089 --> 00:01:56,569

plane are just some of the projects the

22

00:02:05,919 --> 00:02:04,099

ITF will support how does a premier

23

00:02:08,919 --> 00:02:05,929

flight test facility like this come to

24

00:02:10,979 --> 00:02:08,929

be a team effort involving NASA burns

25

00:02:14,110 --> 00:02:10,989

McDonald engineering + construction

26

00:02:16,690 --> 00:02:14,120

contractors and subcontractors their

27

00:02:22,479 --> 00:02:16,700

leadership dedication and hard work have

28

00:02:24,400 --> 00:02:22,489

brought about the ITF here is a trip

29

00:02:26,229 --> 00:02:24,410

through time as we look at the making of

30

00:02:28,690 --> 00:02:26,239

the integrated test facility from

31

00:03:01,390 --> 00:02:28,700

concept completion building a facility

32

00:03:01,400 --> 00:03:07,580

you

33

00:03:12,089 --> 00:03:09,809

building a structure this size requires

34

00:03:15,350 --> 00:03:12,099

a great deal of work even at the ground

35

00:03:17,760 --> 00:03:15,360

level land is surveyed earth is moved

36

00:03:20,370 --> 00:03:17,770

forms are built and concrete is mixed

37

00:03:33,000 --> 00:03:20,380

and poured into the forms making up the

38

00:03:33,010 --> 00:03:42,420

you

39

00:03:42,430 --> 00:04:34,439

the

40

00:04:34,449 --> 00:05:01,529

you

41

00:05:07,300 --> 00:05:04,300

like our bones and skin give our body

42

00:05:09,309 --> 00:05:07,310

structure so to the ITF has a structure

43

00:05:11,679 --> 00:05:09,319

made up of steel and concrete to help

44

00:05:13,779 --> 00:05:11,689

support it here we see the early

45

00:05:16,749 --> 00:05:13,789

progression of the test phase on either

46

00:06:07,629 --> 00:05:16,759

end an office and support areas rising

47

00:07:22,460 --> 00:06:19,190

you

48

00:07:27,180 --> 00:07:24,870

with the outer structure having risen

49

00:07:29,310 --> 00:07:27,190

work is being done to form the network

50

00:07:31,920 --> 00:07:29,320

of pipes that provide essentials such as

51
00:07:33,720 --> 00:07:31,930
water and air conditioning work is also

52
00:07:36,710 --> 00:07:33,730
being done to prepare the ground where

53
00:07:39,420 --> 00:07:36,720
test Bay floors will be placed outside

54
00:09:32,090 --> 00:07:39,430
forms are built and then poured to make

55
00:09:36,030 --> 00:09:34,080
air-conditioning and power are now

56
00:09:40,220 --> 00:09:36,040
supplied to the building and outside

57
00:09:45,090 --> 00:09:42,990
blacktop is being laid and inside

58
00:09:51,870 --> 00:09:45,100
electrical fixtures continue to be

59
00:10:03,930 --> 00:09:51,880
installed test bay floor forms are

60
00:10:09,850 --> 00:10:07,390
the hallways office areas technical

61
00:10:51,920 --> 00:10:09,860
shops and control rooms begin to assume

62
00:10:56,520 --> 00:10:54,570
with the building nearing completion a

63
00:10:58,740 --> 00:10:56,530

series of tests are conducted on the

64

00:11:01,170 --> 00:10:58,750

fire suppression system in each of the

65

00:11:03,150 --> 00:11:01,180

test phase this system is vital to

66

00:11:49,340 --> 00:11:03,160

protecting the advanced aircraft the

67

00:11:54,410 --> 00:11:52,050

the final touches are completed and the

68

00:11:57,269 --> 00:11:54,420

ITF becomes an operational facility

69

00:11:59,910 --> 00:11:57,279

people and planes move into the offices

70

00:12:01,740 --> 00:11:59,920

and tests pay the promise that began

71

00:12:04,530 --> 00:12:01,750

with a few shovels of dirt has been

72

00:12:06,120 --> 00:12:04,540

fulfilled a premier facility for the

73

00:13:55,560 --> 00:12:06,130

testing of the advanced highly

74

00:13:55,570 --> 00:14:13,170

you

75

00:14:19,180 --> 00:14:16,240

the integrated test facility built with

76

00:14:21,430 --> 00:14:19,190

teamwork engineering and dedication will

77

00:14:24,310 --> 00:14:21,440

provide a national resource for NASA and