



(Archived)

| OPERATIONAL PROC. | |
|-------------------|-----------------|
| 1. [illegible] | 2. [illegible] |
| 3. [illegible] | 4. [illegible] |
| 5. [illegible] | 6. [illegible] |
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| 25. [illegible] | 26. [illegible] |
| 27. [illegible] | 28. [illegible] |
| 29. [illegible] | 30. [illegible] |

[illegible text]

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[illegible text]

1
00:00:00,334 --> 00:00:02,870
[Music]

2
00:00:02,870 --> 00:00:07,207
>> The easiest way to describe
what Range Operations does is

3
00:00:07,207 --> 00:00:13,647
we're the group that enables
the flight testing to happen

4
00:00:13,647 --> 00:00:16,083
so that the project gets
the data that they want.

5
00:00:16,083 --> 00:00:19,152
We're the ones that collect
the data from the airplane,

6
00:00:19,152 --> 00:00:21,655
break it back out into
its individual parameters,

7
00:00:21,655 --> 00:00:23,223
and display it in
the control room

8
00:00:23,223 --> 00:00:27,728
so that the engineers can see
what the airplane is doing.

9
00:00:27,728 --> 00:00:31,565
We work very closely with MC so
that we understand the systems

10
00:00:31,565 --> 00:00:35,569
so that when it gets turned
over to us, Range Operations,

11

00:00:35,569 --> 00:00:39,907

we know how the system
is supposed to operate.

12

00:00:39,907 --> 00:00:41,441

>> Locked on radar, right?

13

00:00:41,441 --> 00:00:43,911

>> We have two instrumentation
radars.

14

00:00:43,911 --> 00:00:47,314

What those are used for
is to track the airplane

15

00:00:47,314 --> 00:00:49,783

within the restricted area.

16

00:00:49,783 --> 00:00:51,985

I also have telemetry dishes.

17

00:00:51,985 --> 00:00:53,453

We have three fixed dishes.

18

00:00:53,453 --> 00:00:57,557

They're used to acquire
the data from the airplane.

19

00:00:57,557 --> 00:01:00,827

What happens is on the airplane
you have individual parameters.

20

00:01:00,827 --> 00:01:04,765

They take all of those
put them into one stream

21

00:01:04,765 --> 00:01:06,466

and then it's transmitted
down to the ground.

22

00:01:06,466 --> 00:01:10,637

The telemetry antenna
acquires that signal

23

00:01:10,637 --> 00:01:12,439

and then sends it through fiber.

24

00:01:12,439 --> 00:01:16,109

We have the TRAPS system which
is the Telemetry Radar

25

00:01:16,109 --> 00:01:19,212

Acquisition And Processing
System which is what breaks the

26

00:01:19,212 --> 00:01:21,381

parameters out individually and
then displays them

27

00:01:21,381 --> 00:01:24,184

in the control room
on the displays.

28

00:01:24,184 --> 00:01:28,889

When a F15 or an F18 is
going out and doing a test,

29

00:01:28,889 --> 00:01:32,092

there's a lot of stuff that goes
on the airplane side to lead

30

00:01:32,092 --> 00:01:35,862

up to the flight as well as
all of the expendables, gas,

31

00:01:35,862 --> 00:01:38,432

hydraulic oil, that the
airplane has to expend.

32

00:01:38,432 --> 00:01:40,734
So we don't want to be the cause

33
00:01:40,734 --> 00:01:42,903
of them not getting the
data that they want.

34
00:01:42,903 --> 00:01:44,171
So we make sure that all

35
00:01:44,171 --> 00:01:47,441
of our equipment is
operating correctly,

36
00:01:47,441 --> 00:01:49,977
do maintenance on
all of our systems,

37
00:01:49,977 --> 00:01:53,480
and that we don't cause a
problem for the project.