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1  
00:00:07,970 --> 00:00:06,530  
we've been extremely busy here at map

2  
00:00:10,400 --> 00:00:07,980  
over the last few months we actually

3  
00:00:13,039 --> 00:00:10,410  
have parts for e-m1 on the floor but we

4  
00:00:14,570 --> 00:00:13,049  
also have all of our well confident

5  
00:00:16,490 --> 00:00:14,580  
articles have been welded and are

6  
00:00:18,769 --> 00:00:16,500  
sitting out on the floor we also have

7  
00:00:21,500 --> 00:00:18,779  
our qualification article sitting out on

8  
00:00:23,990 --> 00:00:21,510  
the floor also we have a dome a stone

9  
00:00:26,330 --> 00:00:24,000  
and a forward dome all of the rings that

10  
00:00:28,040 --> 00:00:26,340  
are needed for m1 are produced and

11  
00:00:29,810 --> 00:00:28,050  
sitting on the floor waiting to be

12  
00:00:31,220 --> 00:00:29,820  
machines factory readiness here to

13  
00:00:33,290 --> 00:00:31,230

Michoud assembly facility has been

14

00:00:34,970 --> 00:00:33,300

progressing in fact even accelerating

15

00:00:36,770 --> 00:00:34,980

since the initial completion of the

16

00:00:38,990 --> 00:00:36,780

vertical assembly center at this point

17

00:00:40,819 --> 00:00:39,000

we have our well Darius up and going we

18

00:00:42,619 --> 00:00:40,829

have tape processing areas to the point

19

00:00:44,479 --> 00:00:42,629

where the control systems and tooling is

20

00:00:46,459 --> 00:00:44,489

being in place one aspect of the tank

21

00:00:47,660 --> 00:00:46,469

processing areas is all new control

22

00:00:49,850 --> 00:00:47,670

rooms they're going to be managing

23

00:00:52,610 --> 00:00:49,860

electrical requirements interlocks feeds

24

00:00:54,740 --> 00:00:52,620

and propellants and primers and TPS

25

00:00:56,660 --> 00:00:54,750

brace adjacent to these assembly and

26  
00:00:58,099 --> 00:00:56,670  
integration areas is the engine shop the

27  
00:00:59,299 --> 00:00:58,109  
Indians will come over from Stennis

28  
00:01:01,040 --> 00:00:59,309  
Space Center they'll be checked out

29  
00:01:02,599 --> 00:01:01,050  
carefully and will actually install them

30  
00:01:04,880 --> 00:01:02,609  
here at Michoud as we walk through the

31  
00:01:06,830 --> 00:01:04,890  
factory today we have world-class robots

32  
00:01:09,260 --> 00:01:06,840  
doing all types of manufacturing and

33  
00:01:11,420 --> 00:01:09,270  
assembly operations one of the aspects

34  
00:01:12,920 --> 00:01:11,430  
of tank processing is a proof testing

35  
00:01:15,109 --> 00:01:12,930  
for both the liquid oxygen and liquid

36  
00:01:16,910 --> 00:01:15,119  
hydrogen tanks those areas are all but

37  
00:01:18,620 --> 00:01:16,920  
complete the tooling is on its way in

38  
00:01:20,870 --> 00:01:18,630

control systems are being checked out

39

00:01:22,460 --> 00:01:20,880

another really important aspect is we're

40

00:01:24,620 --> 00:01:22,470

bringing a lot more skilled technicians

41

00:01:26,179 --> 00:01:24,630

on this coming year already in place are

42

00:01:28,490 --> 00:01:26,189

the welders and the weld engineers

43

00:01:30,230 --> 00:01:28,500

joining them will be planners and folks

44

00:01:31,640 --> 00:01:30,240

working all the tank processing areas

45

00:01:33,679 --> 00:01:31,650

and then of course the assembly