



1  
00:00:01,060 --> 00:00:06,830  
an engineering feat of our time the  
Apollo Saturn 5 is ready to go

2  
00:00:06,830 --> 00:00:10,820  
the flight termed the Apollo 4 mission will take place  
shortly from the National Aeronautics

3  
00:00:10,820 --> 00:00:14,389  
and Space Administration Kennedy Space  
Center in Florida

4  
00:00:14,389 --> 00:00:18,890  
Apollo Saturn is the mammoth combination  
of the Apollo spacecraft and the three

5  
00:00:18,890 --> 00:00:23,119  
stage SaturnV by a vehicle conceived  
here at NASA's Marshall Space Flight

6  
00:00:23,119 --> 00:00:26,520  
Center  
from the drawing board to finish product,

7  
00:00:26,520 --> 00:00:32,340  
that has been unique job of thousands of  
engineer many of them the same old-time

8  
00:00:32,340 --> 00:00:37,250  
Rocketeer who built the Redstone, Jupiter,  
and Saturn I

9  
00:00:37,250 --> 00:00:41,480  
Saturn management is centered at the  
Marshall Center where much of the first

10  
00:00:41,480 --> 00:00:47,339  
stage development work was also done  
computers and sophisticated machines are

11  
00:00:47,339 --> 00:00:51,629  
vital tools to rocket developers allowing  
them to do their jobs more efficiently

12  
00:00:51,629 --> 00:00:58,690  
more quickly and with greater accuracy  
operating room sterile clean rooms are a

13  
00:00:58,690 --> 00:01:02,920  
part of the everyday scene at the rocket  
Development Center for his hero the

14  
00:01:02,920 --> 00:01:07,420  
guidance in control propellents  
systems and particle free systems are

15  
00:01:07,420 --> 00:01:12,080  
put together  
welding 33 foot diameter aluminum tanks

16  
00:01:12,080 --> 00:01:16,119  
has produced welding and metallurgy  
change

17  
00:01:16,119 --> 00:01:20,380  
the first stage for this vehicle and the  
one to follow were assembled by the

18  
00:01:20,380 --> 00:01:25,340  
Marshall Center and the Boeing Company  
at the Huntsville space installation.

19  
00:01:25,340 --> 00:01:30,170  
second stage fabrication takes place at  
the North American Rockwell seal Beach

20  
00:01:30,170 --> 00:01:33,909  
California facility  
and mcdonnell-douglas corporation makes

21  
00:01:33,909 --> 00:01:40,180  
the third stage at Huntington Beach California  
IBM Huntsville makes the instrument unit

22  
00:01:40,180 --> 00:01:45,520  
the brain of the vehicle. the three hundred  
thousand pound booster is secured to this

23  
00:01:45,520 --> 00:01:49,200  
massive stand for captive tests of his liquid oxygen

24  
00:01:49,200 --> 00:01:55,580  
kerosene propellant system  
loud and hot five Rocketdyne F-1 engines

25  
00:01:55,580 --> 00:02:01,550  
send their throaty roar across the Tennessee  
Valley engines are gimble, valves move

26  
00:02:01,550 --> 00:02:06,010  
temperatures check  
all test data is recorded in a nearby

27  
00:02:06,010 --> 00:02:11,880  
control center for evaluation  
less dramatic but as important for the

28  
00:02:11,880 --> 00:02:18,030  
tests following captive firing computer  
control test check the stages closely to

29  
00:02:18,030 --> 00:02:21,380  
determine if everything is working  
properly.

30  
00:02:21,380 --> 00:02:26,210  
the booster is loaded on the nasa barge  
Poseidon for the 2,000 mile trip down

31

00:02:26,210 --> 00:02:31,190  
the Tennessee, Ohio, and Mississippi  
rivers across the Gulf and into Cape

32

00:02:31,190 --> 00:02:36,700

Kennedy  
now the 363 foot tall Apollo Saturn 5

33

00:02:36,700 --> 00:02:42,040

awaits the signal to thunder into space  
more than five years after it became a

34

00:02:42,040 --> 00:02:46,950

Space Agency program  
soon the fully fueled six million pound