web is truly a civilization scale
mission it not only changes what we know
but how we think about ourselves we'll
pick up where the Hubble Space Telescope
and Spitzer Space Telescope's left off
and their capabilities and it lets us
see out through 13 billion years of
cosmic time to look at the first
generation of galaxies that formed after
the Big Bang it will also look at these
worlds out there exoplanets that may or
may not harbor life when the Webb
telescope gets to space it will be
operating in very harsh conditions in a
vacuum and very cold so we have to test

that on earth at the Johnson Space Center their chamber a was used to do a

thermal vacuum test chamber a was built

for the Apollo mission they tested the Apollo spacecraft in it and for the Webb telescope we have totally taken that chamber and repurposed it it's a multistory thermos bottle which we can pump all the air out and then chill it very cold this critical test has been planned for a long time it was a very long test and we passed with flying colors Webb is a partnership between
NASA the European Space Agency the
Canadian Space Agency Sciences
International because we bring the best
to the table that everybody can offer
and it really takes a planet to make a
telescope like Webb
it's pushing the limits of Technology
and it's going to push forward the
limits of science it's an incredibly
powerful tool to take the next step in
space exploration you know I really feel
fortunate to be living right now and be
a Nazarite now because for the first
time in history we can address the
question are we alone in the universe

44
00:01:50,659 --> 00:01:57,230
scientifically with web as a major tool

45
00:01:54,030 --> 00:01:59,290
[Music]

46
00:01:57,230 --> 00:01:59,290
you

47
00:01:59,489 --> 00:02:02,839
[Music]