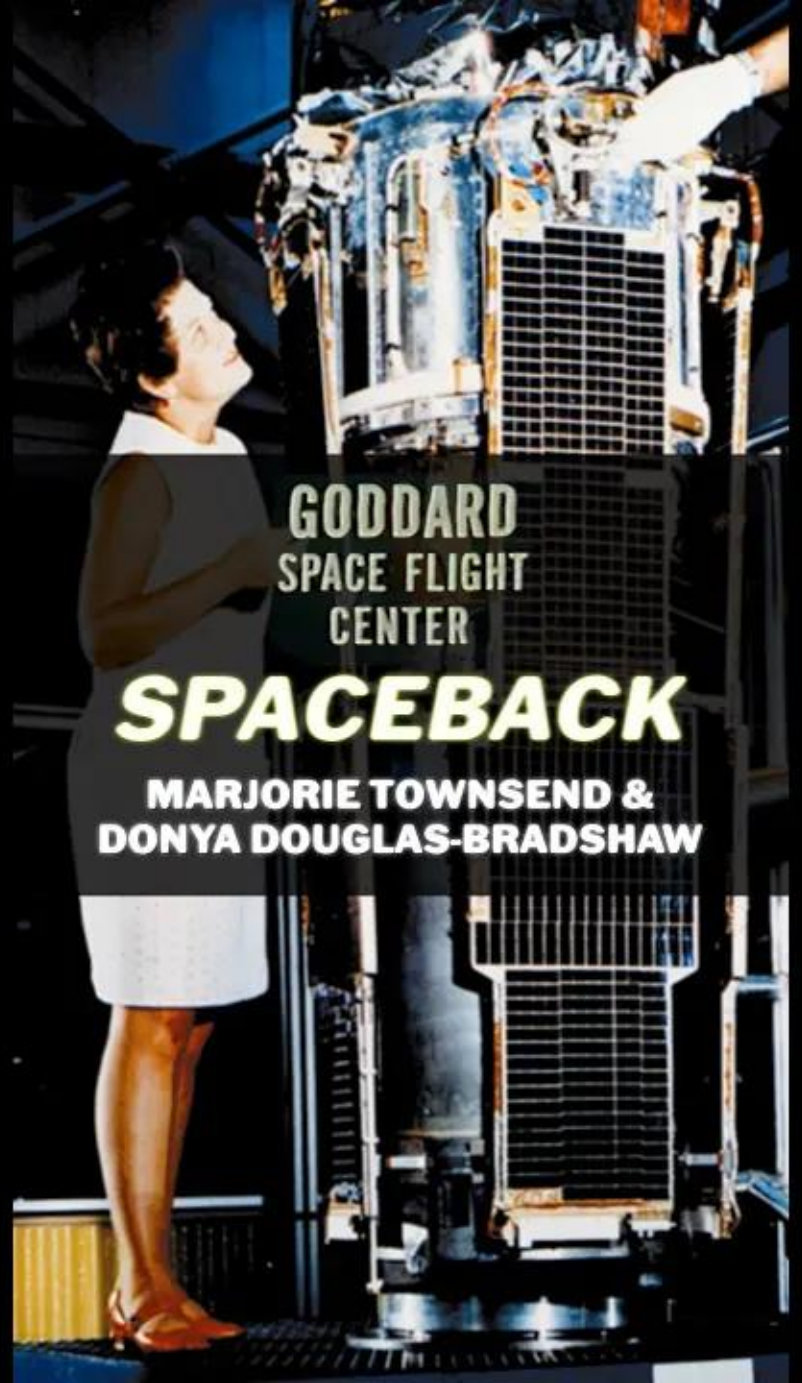
GODDARD
SPACE FLIGHT
CENTER
SPACEBACK
MARJORIE TOWNSEND &
DONYA DOUGLAS-BRADSHAW

1
00:00:01,568 --> 00:00:04,237
A very great deal of effort and testing goes

2
00:00:04,237 --> 00:00:06,373
into building a successful spacecraft.

3
00:00:06,639 --> 00:00:07,307
For example,

4
00:00:07,307 --> 00:00:11,144
every transistor and integrated circuit
is tested with an X-ray machine

5
00:00:11,144 --> 00:00:15,515
to see if there's anything inside
that could cause a problem later on.

6
00:00:15,882 --> 00:00:18,852
In 1951 Townsend became the first woman to earn an engineering degree

7
00:00:18,852 --> 00:00:21,621
from George Washington University.

8
00:00:23,056 --> 00:00:26,326
She later became the first female project manager for a satellite mission at NASA

9
00:00:26,359 --> 00:00:30,030
and worked on the Small Astronomy Satellite series, launching three satellites in the 1970s.

10
00:00:30,630 --> 00:00:32,932
I'm the project manager for Lucy.

11
00:00:32,932 --> 00:00:37,170
But before I became the project manager
for Lucy, I was actually an engineer

12
00:00:37,170 --> 00:00:38,338
at NASA Goddard.

13
00:00:38,338 --> 00:00:40,707
So I've actually been working here

14
00:00:40,707 --> 00:00:44,010
for 30 years, and when I started,
I was actually a co-op student.

15
00:00:44,010 --> 00:00:48,381
I mean, when things I do as a project
manager is to assemble

16
00:00:48,415 --> 00:00:51,451
a team of scientists and engineers

17
00:00:51,451 --> 00:00:55,955
and technicians and business people
to develop the concept,