



1  
00:00:00,000 --> 00:00:01,640  
Wait till 5k then close the door.

2  
00:00:01,640 --> 00:00:02,899  
The mirror on NASA's Stratospheric

3  
00:00:02,899 --> 00:00:05,240  
Observatory for Infrared Astronomy

4  
00:00:05,240 --> 00:00:07,440  
was cleaned recently in preparation for the

5  
00:00:07,440 --> 00:00:09,680  
first full cycle of science observations.

6  
00:00:10,420 --> 00:00:12,900  
Because of the sensitive exposed optics,

7  
00:00:12,900 --> 00:00:16,900  
the telescope cavity of the heavily modified 747

8  
00:00:17,220 --> 00:00:19,240  
is designed to serve as a cleanroom.

9  
00:00:19,980 --> 00:00:21,900  
However, contamination of the optics

10  
00:00:21,900 --> 00:00:23,180  
builds up over time.

11  
00:00:23,180 --> 00:00:26,130  
Thus, while the aircraft and its systems were upgraded

12  
00:00:26,130 --> 00:00:29,480  
at NASA's Dryden Aircraft Operations Facility

13  
00:00:29,480 --> 00:00:31,160

in Palmdale California.

14  
00:00:31,160 --> 00:00:35,020  
Telescope technicians use water, a mild detergent

15  
00:00:35,020 --> 00:00:37,410  
and a small filtered blower to

16  
00:00:37,410 --> 00:00:39,740  
remove dust and other material

17  
00:00:39,740 --> 00:00:42,280  
that had adhered to the mirror's surface.

18  
00:00:42,780 --> 00:00:45,120  
This is in preparation for the next astronomy

19  
00:00:45,120 --> 00:00:46,500  
observation period

20  
00:00:46,500 --> 00:00:47,660  
known as Cycle 1,