



1

00:00:01,080 --> 00:00:03,330

\h George Diller/NASA Launch Commentator: From Cape Canaveral in Florida this is

2

00:00:03,330 --> 00:00:07,860

\h Atlas Launch Control at T-2 hours and holding.

3

00:00:07,860 --> 00:00:15,340

\h We're now just 2 1/2 hours away from the liftoff of NASA's TDRS-K, Tracking and Data Relay Satellite.

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00:00:15,340 --> 00:00:21,770

\h Launch is atop a United Launch Alliance Atlas V rocket from Launch Complex 41 at Cape Canaveral.

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00:00:21,770 --> 00:00:31,500

\h The launch window today extends from 8:48 to 9:28 p.m. EST.

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00:00:31,500 --> 00:00:35,320

\h The launch window tonight is 40 minutes in duration.

7

00:00:35,320 --> 00:00:42,310

\h This will be the 35th Atlas V rocket to be launched from Cape Canaveral Air Force Station.

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00:00:42,310 --> 00:00:46,330

\h The TDRS-K Tracking and Data Relay Satellite will relay voice,

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00:00:46,330 --> 00:00:52,350

\h data and telemetry communications between spacecraft and Earth orbit and ground controllers.

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00:00:52,350 --> 00:00:58,710

\h This includes the International Space Station, the Hubble Space Telescope and scientific satellites.

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00:00:58,710 --> 00:01:04,320

\h Even the Atlas rocket launching tonight with TDRS-K will be tracked using the TDRS system in orbit,

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00:01:04,320 --> 00:01:11,420

\h taking over from the tracking stations of the Eastern Range beginning about 6 1/2 minutes into the flight

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00:01:11,420 --> 00:01:15,660

\h Ten Tracking and Data Relay Satellites have been launched since the first one launched from the

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00:01:15,660 --> 00:01:21,070

\h space shuttle on April 4, 1983, almost exactly 30 years ago.

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00:01:21,070 --> 00:01:25,960

\h The TDRS system allows almost constant space communication.

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00:01:25,960 --> 00:01:29,560

\h Because of the reliability and longevity of the system,

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00:01:29,560 --> 00:01:39,400

\h TDRS-K is the first one to be launched by NASA that the agency has needed since 2002, over 10 years

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00:01:39,400 --> 00:01:45,580

\h The spacecraft was built for NASA by Boeing Space Systems.

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00:01:45,580 --> 00:01:51,850

\h So at this time we are awaiting our poll from the NASA Launch Director Tim Dunn of the

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00:01:51,850 --> 00:01:56,410

\h NASA launch team and that will be followed by the poll of the Atlas team to

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00:01:56,410 --> 00:02:03,630

\h begin tanking of the Atlas V rocket with cryogenic propellants.