



1  
00:00:00,000 --> 23:59:59,999  
Intro music.

2  
00:00:00,000 --> 23:59:59,999  
5:54If we're getting too busy -- like I said, there's times when I have seven comm nets going at once --

3  
00:00:00,000 --> 00:00:02,999  
VOICE 16: Yeah, and we can confirm Astrotech voice is back up.

4  
00:00:03,000 --> 00:00:09,066  
VOICE 1: And this is the LCDR on channel one. Checking all stations ???, and systems ready.

5  
00:00:32,000 --> 00:00:41,666  
VOICE 1: ...The current status of the pad: preps are complete. For weather status, we're looking at a less than

6  
00:00:42,000 --> 00:00:45,733  
We have no ?? at this time. And are there any questions?

7  
00:00:53,000 --> 00:00:59,000  
VOICE 2: Launch day is a culmination of two or three years, four or five on some missions,

8  
00:00:59,000 --> 00:00:59,066  
of work that's gone into this final day of loading up this launch vehicle and putting the spacecraft up into, into or

9  
00:01:07,000 --> 00:01:13,066  
So, it's kind of like your wedding day. You build up to it, and here it is, and it's today.

10  
00:01:14,000 --> 00:01:21,466  
And it's a very serious day and it'll impact that mission from here on out because you're sending it on its way.

11  
00:01:23,000 --> 00:01:32,200  
VOICE 3: When I come in for, for launch day and launch night in the firing room. And I come in, I can see a fre

12  
00:01:33,000 --> 00:01:41,066  
and I know it's going to be one of those nights. That's one. And the other side is, if it's quiet and the weather's g

13  
00:01:42,000 --> 00:01:47,066

and people just seem to be kind of, just now wrapping up, ready for a count,

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00:01:48,000 --> 00:01:53,533

it's nice to be able to ease into it and prepare for a somewhat relaxing countdown.

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00:02:32,000 --> 00:02:36,466

VOICE 4: We have up roughly seven or eight channels on at one time,

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00:02:37,000 --> 00:02:37,933

so the one thing that we launch managers are very good at is filtering out conversations.

17

00:02:42,000 --> 00:02:42,333

We're able to sit there and absorb about seven or eight channels,

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00:02:46,000 --> 00:02:53,133

and even be talking at the same time while we're listening to some of the stuff going on in the background.

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00:03:06,000 --> 00:03:07,533

VOICE 5: Can you imagine, if it's like seven or eight different conversations, all on a different topic possibly.

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00:03:12,000 --> 00:03:13,533

And you're trying to pull this all together and make sure that everybody's talking about the right

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00:03:17,000 --> 00:03:24,466

things at the right time and make sure that we're able to grasp that right recipe to be able to launch that day.

22

00:03:26,000 --> 00:03:30,333

VOICE 6: SMV, this is the MLM on the NLMN. VOICE 7: Go ahead, MLM

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00:03:31,000 --> 00:03:39,666

VOICE 6: Yes sir. On your problem with communicating with Astrotech, are you guys working black bones, or i

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00:03:43,000 --> 00:03:43,733

VOICE 7: We're working black bones. We still don't have the ?? link up.

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00:03:47,000 --> 00:03:47,200

VOICE 6: Copy that. Will that be a work-around into the launch op, or is that not acceptable?

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00:03:53,000 --> 00:03:53,733

VOICE 7: That is a mandatory, so it won't be acceptable.

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00:03:56,000 --> 00:03:56,266

VOICE 6: Copy that.

28

00:03:57,000 --> 00:03:57,266

VOICE 8: NLM, MV on eight. VOICE 6: Go ahead, MV.

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00:04:00,000 --> 00:04:01,933

VOICE 8: Yeah, I just wanted to confirm. I thought I heard you talking to the spacecraft.

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00:04:04,000 --> 00:04:07,733

The comm problem between Astrotech and here is workable?

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00:04:10,000 --> 00:04:12,800

VOICE 6: Currently, that's a mandatory for them. They're working it on black bones but...(INTERRUPTED)

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00:04:14,000 --> 00:04:19,666

VOICE 9: Even though we practice, simulate ?? prior to launches and dress rehearsals,

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00:04:21,000 --> 00:04:21,666

you can't always predict what the problem's going to present of itself on launch day.

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00:04:26,000 --> 00:04:30,266

VOICE 10: NLM, this is SMD on NLM net. VOICE 11: Go ahead, SMD.

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00:04:31,000 --> 00:04:35,133

VOICE 10: We do have a PCC issue on our power control console.

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00:04:36,000 --> 00:04:38,666

VOICE 11: Is that going to be a problem?

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00:04:39,000 --> 00:04:39,133

VOICE 10: Still assessing. VOICE 11: Copy that.

38

00:04:42,000 --> 00:04:43,533

VOICE 12: We track along with it, and we make sure that the engineers are following their process.

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00:04:47,000 --> 00:04:51,800

And they report out on anomaly resolution, as we call it, and hopefully,

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00:04:55,000 --> 00:04:55,400

they give us a "ready to proceed" and then we poll the management team and get their permission.

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00:05:01,000 --> 00:05:01,466

VOICE 13: Go ahead, SMV. VOICE 14: Yeah, getting back to you, we have no further issues as a result of ??

42

00:05:08,000 --> 00:05:08,333

VOICE 13: Copy that.

43

00:05:09,000 --> 00:05:10,000

Music.

44

00:05:28,000 --> 00:05:28,600

VOICE 15: The working relationship that Chuck and I have stems back roughly 13, 14 years. We're very comfort

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00:05:36,000 --> 00:05:43,000

so it's wonderful that, that we have a great working relationship. We enjoy each other's professionalism,

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00:05:45,000 --> 00:05:51,866

and vice versa when I do the role as the ALM, the assistant launch manager, we're doing the same thing.

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00:06:01,000 --> 00:06:06,000

I can't talk on all seven of them at once and keep the conversations going,

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00:06:06,000 --> 00:06:07,000

so I might be off working one issue on one net and he's off either telling me to stand by,

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00:06:11,000 --> 00:06:15,066

he's working an issue, or he's off working it himself for me.

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00:06:27,000 --> 00:06:27,466

VOICE 16: This is ALM, go ahead, sir.

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00:06:29,000 --> 00:06:31,800

VOICE 17: Yeah, I just wanted to let you know the range received record capability, ?? is back and the range is

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00:06:35,000 --> 00:06:44,000

So we're, I know of two issues at this moment. That's the spacecraft communication with Astrotech and then the

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00:06:48,000 --> 00:06:49,666

VOICE 17: Oh, Astrotech is back up? VOICE 16: Correct.

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00:06:50,000 --> 00:06:51,999

VOICE 17: Roger. Then we're only working the... (INTERRUPTED)

55

00:06:52,000 --> 00:07:00,066

VOICE 18: I try to give Omar as much support as, as I would want myself. I want him to be as, as successful as

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00:07:02,000 --> 00:07:09,133

There's kind of a lot of unwritten things that you do for each other that you probably, it's just a reflex.

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00:07:12,000 --> 00:07:13,000

Music.

58

00:07:16,000 --> 00:07:16,333

VOICE 19: T-4 minutes and counting.

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00:07:18,000 --> 00:07:22,400

VOICE 20: What can still go wrong after T minus? Well, everything.

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00:07:23,000 --> 00:07:23,133

??? to make sure that everybody's mind is set and we're ready to launch. But we could have hardware go bad,

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00:07:30,000 --> 00:07:30,333

we could have the weather go bad, we could have a lightning strike that catches us by surprise.

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00:07:36,000 --> 00:07:37,466

VOICE 21: T-3 minutes.

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00:07:38,000 --> 00:07:45,600

VOICE 22: T-3 minutes and counting is not the point of no return. It is the point where we're getting much close

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00:07:46,000 --> 00:07:51,533

and the blood pressure is rising and, and, but it's an exciting time because again,

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00:07:53,000 --> 00:07:58,866

we've gotten through a lot, a good part of the countdown and we're getting really close.

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00:07:59,000 --> 00:07:59,933

VOICE 23: This is the NLM on the NLM net for ready to proceed with terminal count and final launch poll.

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00:08:05,000 --> 00:08:14,533

Currently working no issues on the range, launch vehicle or spacecraft. At this point, I'd like to poll the team for

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00:09:24,000 --> 00:09:32,733

VOICE 24: The last 60 seconds, for me, are very exciting. A big part of my job has been completed. It's still qui

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00:09:35,000 --> 00:09:44,600

You know, the pressure is up, the stress level is up. But with the launches I've done, and with rehearsals and s