



GMT

07:10:00

FC-3 PIC

01:07:00

MISSION CONTROL CENTER

USTON TV SD

PAO

1
00:00:02,906 --> 00:00:05,646
>> Dan Huot: Right now here
in Mission Control I'm joined

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00:00:05,646 --> 00:00:08,936
by Rob Adams, one of our
inventory and stowage officers.

3
00:00:09,186 --> 00:00:11,366
Rob, first off, thanks for
joining me here on console.

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00:00:11,896 --> 00:00:15,076
Rob is, you know, one
of our, like I said,

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00:00:15,076 --> 00:00:16,206
inventory and stowage officers.

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00:00:16,206 --> 00:00:17,726
So you're in charge
of all the stuff.

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00:00:18,036 --> 00:00:20,426
I think that's the easiest
way to put it, right?

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00:00:20,536 --> 00:00:20,956
>> Rob Adams: That's right.

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00:00:20,956 --> 00:00:23,046
We're in charge of
the stuff on station.

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00:00:23,536 --> 00:00:25,886
ISO, or inventory storage
officer, obviously,

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00:00:25,886 --> 00:00:27,036

sort of describes what we do.

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00:00:27,816 --> 00:00:30,106

We keep track of the inventory, and we keep track

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00:00:30,106 --> 00:00:31,066

of the stowage, where all the --

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00:00:31,166 --> 00:00:34,596

what the stuff is and where it belongs and where it should be.

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00:00:34,936 --> 00:00:37,466

That kind of -- that's the kind of data that we track.

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00:00:37,466 --> 00:00:39,776

>> Dan Huot: And, I mean, that's got to be pretty exhaustive.

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00:00:39,776 --> 00:00:42,146

There's a lot of -- there's a lot of stuff on station.

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00:00:42,146 --> 00:00:44,246

Just how to you guys, you know, keep track of everything?

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00:00:44,246 --> 00:00:45,966

>> Rob Adams: We have a large database called the

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00:00:45,966 --> 00:00:48,986

"inventory management system," IMS, that keeps track

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00:00:48,986 --> 00:00:51,076

of pretty much everything that has been launched to station

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00:00:51,076 --> 00:00:56,886

since its inception; and we keep track of where that is based

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00:00:56,886 --> 00:00:59,156

on what the crew tells us mostly.

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00:00:59,406 --> 00:01:02,306

We really don't have any data or telemetry coming

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00:01:02,306 --> 00:01:03,816

down from the station that indicates

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00:01:03,816 --> 00:01:06,106

where a particular item is at any given moment.

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00:01:06,106 --> 00:01:08,566

We just have to rely on what we've told the crew

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00:01:08,566 --> 00:01:09,676

and what the crew's told us.

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00:01:09,876 --> 00:01:10,936

>> Dan Huot: So you've got to work with the crew.

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00:01:10,936 --> 00:01:12,746

You've got to make sure they're not lying,

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00:01:13,346 --> 00:01:15,096

that they know where everything is.

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00:01:15,096 --> 00:01:17,646

>> Rob Adams: We do often
look at downlink video

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00:01:17,646 --> 00:01:19,726

and photos to double check.

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00:01:19,906 --> 00:01:22,946

If we see a serial number of
a bag or an item or so of such

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00:01:22,946 --> 00:01:26,696

and such, we check that against
where we think it is in IMS

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00:01:26,696 --> 00:01:29,766

and verify that that's
what we saw in the picture.

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00:01:30,236 --> 00:01:33,276

>> Dan Huot: Now, Rob, you're
the lead ISO for Dragon.

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00:01:33,526 --> 00:01:33,996

>> Rob Adams: That's correct.

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00:01:33,996 --> 00:01:35,906

>> Dan Huot: So that's
the unmanned capsule

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00:01:35,906 --> 00:01:38,746

that just docked to the station
a few weeks back delivering

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00:01:38,746 --> 00:01:40,506

thousands of pounds
of experiments

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00:01:40,506 --> 00:01:43,096

and hardware to the station.

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00:01:43,366 --> 00:01:45,366

Talk about some of the
challenges or some of the,

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00:01:45,656 --> 00:01:48,236

not so much challenges,
the nicer things

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00:01:48,236 --> 00:01:51,236

that you guys have seen working
with the Dragon Spacecraft.

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00:01:51,476 --> 00:01:53,016

>> Rob Adams: Well,
Dragon, the mission so far,

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00:01:53,016 --> 00:01:54,866

at least from a cargo's
perspective,

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00:01:54,866 --> 00:01:55,866

has been pretty smooth.

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00:01:56,256 --> 00:02:00,446

The crew -- the vehicle
berthed on one day

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00:02:00,446 --> 00:02:02,336

and the very next day they
had unpacked everything.

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00:02:02,336 --> 00:02:05,096

And we expected that to
take a couple of days,

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00:02:05,096 --> 00:02:07,496

so it was a very well
put together vehicle,

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00:02:07,496 --> 00:02:10,326
and the products we provided
them, they told us back,

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00:02:10,326 --> 00:02:12,346
were very clean,
so they were able

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00:02:12,346 --> 00:02:14,806
to unpack the vehicle much
quicker than we anticipated

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00:02:14,806 --> 00:02:16,526
which has given us a
little bit of cushion as far

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00:02:16,526 --> 00:02:18,126
as packing the vehicle.

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00:02:18,346 --> 00:02:20,806
As with any return vehicle,

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00:02:21,126 --> 00:02:23,866
I know I worked several
shuttle flights as a transfer

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00:02:23,866 --> 00:02:26,806
which is similar where we packed
up the LPLM and the head deck,

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00:02:26,806 --> 00:02:30,106
etc., there are always changes
to the stuff coming down,

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00:02:30,396 --> 00:02:31,766
and that's been the case here.

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00:02:31,766 --> 00:02:34,256

So we have to be flexible
and adjust our plans

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00:02:34,256 --> 00:02:35,276
and products accordingly,

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00:02:35,676 --> 00:02:37,626
and that's gone fairly
smoothly as well.

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00:02:37,996 --> 00:02:40,966
The crew is a little bit ahead
as far as packing the vehicle;

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00:02:40,966 --> 00:02:43,556
we have roughly half of
it packed at this point.

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00:02:44,056 --> 00:02:48,666
We have the aft and
the starboard rack,

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00:02:48,776 --> 00:02:50,556
finished off the
starboard rack yesterday.

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00:02:51,206 --> 00:02:55,106
So that leaves two racks left
to go, and it will be all packed

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00:02:55,106 --> 00:02:56,156
and ready for reentry.

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00:02:56,396 --> 00:02:56,856
>> Dan Huot: Okay.

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00:02:56,916 --> 00:02:59,646
Now, with Dragon some of the
stuff that's been brought

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00:02:59,646 --> 00:03:01,626
up is also returning back down.

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00:03:01,626 --> 00:03:02,016
>> Rob Adams: That is correct.

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00:03:02,016 --> 00:03:03,866
>> Dan Huot: Has there
been any special emphasis

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00:03:03,866 --> 00:03:05,876
or anything special
you guys have had to do

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00:03:05,926 --> 00:03:07,996
to help the crew keep
track of those items?

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00:03:07,996 --> 00:03:09,816
>> Rob Adams: Most of
those items are payloads.

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00:03:09,816 --> 00:03:12,016
There is the one item,
the [inaudible] beds,

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00:03:12,056 --> 00:03:15,286
which are being replaced
onboard, that's another item

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00:03:15,336 --> 00:03:17,456
that -- well, we're bringing
up new ones and we're bringing

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00:03:17,456 --> 00:03:20,016
down old ones, but
they're coming up and down

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00:03:20,016 --> 00:03:23,276

in the same bag, so we
track that and make sure

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00:03:23,276 --> 00:03:25,366

that the right parts
get put into the bag

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00:03:25,366 --> 00:03:27,106

and that the bag gets
packed accordingly.

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00:03:27,496 --> 00:03:30,426

And it does affect our planning
on when we say the crew can pack

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00:03:30,426 --> 00:03:33,276

that bag, specifically
with payloads

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00:03:33,276 --> 00:03:35,456

because they have payload
operations that are going

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00:03:35,456 --> 00:03:37,936

on throughout the dock
-- the berth time frame.

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00:03:38,436 --> 00:03:42,266

And so we have to tell the crew
after the payload operations

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00:03:42,296 --> 00:03:44,536

to pack that bag up and
put it back in Dragon,

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00:03:44,796 --> 00:03:47,086

and that's typically -- that's
going to happen towards the end

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00:03:47,086 --> 00:03:48,996

of the mission, towards
hatch closure day.

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00:03:49,586 --> 00:03:52,756

So that affects the products
that we send up to the crew

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00:03:52,756 --> 00:03:55,966

and how we cor --
choreograph everything.

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00:03:56,016 --> 00:03:58,716

And we literally call it
the choreography message.

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00:03:59,116 --> 00:03:59,406

>> Dan Huot: Okay.

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00:03:59,756 --> 00:04:02,536

Now, some of the
items are experiments.

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00:04:02,536 --> 00:04:04,246

Some are -- do you guys
have a special system

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00:04:04,246 --> 00:04:08,066

for differentiating from the
crew experiments, you know,

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00:04:08,396 --> 00:04:09,746

crew supplies, things like that?

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00:04:10,116 --> 00:04:12,816

>> Rob Adams: Not really.

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00:04:12,816 --> 00:04:13,836

Not in our products.

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00:04:13,946 --> 00:04:16,066

The payloads folks
keep track of which --

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00:04:16,066 --> 00:04:16,306

>> Dan Huot: Okay.

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00:04:16,306 --> 00:04:19,996

>> Rob Adams: -- is payloads
and which is just system stuff.

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00:04:20,066 --> 00:04:22,856

Sometimes if it is payload
dependent, we'll put it

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00:04:22,856 --> 00:04:27,056

in our list that this will be
packed after payload procedures,

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00:04:27,176 --> 00:04:29,646

such and such, and that
indicates to the crew

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00:04:29,646 --> 00:04:30,956

that they need to pack this

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00:04:30,956 --> 00:04:32,666

after the payload
operations are complete.

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00:04:32,966 --> 00:04:33,306

>> Dan Huot: Okay.

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00:04:33,396 --> 00:04:35,546

Well, like you said,
you're about halfway packed.

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00:04:35,576 --> 00:04:36,676

They didn't lose
anything yet, did they?

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00:04:36,976 --> 00:04:37,546

>> Not yet, no.

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00:04:37,546 --> 00:04:37,746

>> Dan Huot: Okay.

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00:04:37,746 --> 00:04:38,586

Nothing fell behind a --

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00:04:38,586 --> 00:04:40,696

>> Nothing has fallen
behind a crack or gone

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00:04:40,696 --> 00:04:43,436

into a ventilation duct or
anything, a filter or anything

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00:04:43,436 --> 00:04:44,916

like that, so we're
good on that.

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00:04:45,156 --> 00:04:45,596

>> Dan Huot: All right.

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00:04:45,836 --> 00:04:46,836

Well, sounds great.

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00:04:47,106 --> 00:04:48,616

Good luck getting the
rest of Dragon unpacked

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00:04:48,616 --> 00:04:50,256

and keeping track of
everything floating

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00:04:50,256 --> 00:04:51,376

around up there on station.

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00:04:51,376 --> 00:04:53,516

Rob, thanks so much for
being here with me today,

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00:04:53,786 --> 00:04:56,996

giving a look at one of the
many console positions here

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00:04:56,996 --> 00:04:57,216

at the MCC.

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00:04:57,216 --> 00:04:57,716

Thanks.