From:	Boeing Employee
To: CC: Sent:	Boeing Employees 2/26/2013 12:48:44 PM
	RE: Synthetic Airspeed 737 Unreliable airspeed version 25 .pdf
This is the latest draft; h checklist.	owever, we are far from validating this as the final version of the Airspeed Unreliable
Critical Action, Memory	elecon today, an introduction of synthetic airspeed to the MAX would drastically alter this litem Non-Normal Checklist. If synthetic airspeed is standard as opposed to an option, it he Program directive to maintain Level B training for our customers.
l've included	who is the lead Tech Pilot for the MAX.
	ms SAM call today, to listen to the proposal for the new I-ADIRU for the MAX, and prought up. First I had heard of it, so I mentioned the above to the group.
Thank you,	
737 Technical Pilot ~ Desk ~ Mobile	
Ø BOEING	BOEING EDGE Flight Services
From: Boeing Employ Sent: Tuesday, February To: Boeing Employee Subject: Synthetic Airspe	26, 2013 10:36 AM
Do you have a copy of vive seen that one yet.	what the 737's Airspeed Unreliable checklist will be as a result of the SRP? I don't think
100	mplement synthetic airspeed on the 737, particularly since it doesn't have to be different from the 787.
Flight Deck Crew Opera	tions

From:	Boeing Employee
To: CC: Sent: Subject:	Boeing Employees 2/26/2013 1:29:13 PM RE: Synthetic Airspeed
	d the trade study to authorize work for us to figure out what the recommended presentation course would be to keep differences training to a minimum, but without a format we can
	n switches would simplify the implementation logic by relying on the crew to select synthetic I, but that drives changes to the non-memory items in the NNC and would be more difficult to
But we'll definitely be a	asking for your input as we go do that work.
From: Boeing Employe Sent: Tuesday, Februar To: Boeing Er Cc: Boeing Er Subject: Re: Synthetic	nployees
Let me see what implic	cations would be, if only in NNC and not affecting memory items, it could be ok.
Kind regards,	
737/737 MAX Chief Te Chief Pilot Regulatory	
The Boeing Company	

From: Boeing Employee
Sent: Tuesday, February 26, 2013 12:48 PM
To: Cc: Boeing Employees

Subject: RE: Synthetic Airspeed
This is the latest draft; however, we are far from validating this as the final version of the Airspeed Unreliable checklist.
As I pointed out in the telecon today, an introduction of synthetic airspeed to the MAX would drastically alter this Critical Action, Memory Item Non-Normal Checklist. If synthetic airspeed is standard as opposed to an option, it would likely jeopardize the Program directive to maintain Level B training for our customers.
I've included who is the lead Tech Pilot for the MAX.
I was on the MAX Systems SAM call today, to listen to the proposal for the new I-ADIRU for the MAX, and synthetic airspeed was brought up. First I had heard of it, so I mentioned the above to the group.
Thank you,
737 Technical Pilot
BOEING BOEING EDGE Flight Services
From: Boeing Employee Sent: Tuesday, February 26, 2013 10:36 AM To: Boeing Employee Subject: Synthetic Airspeed
Do you have a copy of what the 737's Airspeed Unreliable checklist will be as a result of the SRP? I don't think I've seen that one yet.
It will be a challenge to implement synthetic airspeed on the 737, particularly since it doesn't have so the implementation will need to be different from the 787.
Flight Deck Crew Operations
Flight Deck Crew Operations

From:	Boeing Employee
To:	Boeing Employees
Sent:	5/29/2015 8:31:54 AM
Subject:	Conversation with
	L
[7:57	AM]:
webex sliding until 0830	
[7:57 AM]:	
copy	
what are we going over	on this?
[7:58	AM]:
building the pitch for th	ne Regulators for June meeting on jammed elevator/DLC and how we will do the MCAB session.
	and I were in the MCAB on Wednesday
[7:59 AM]:	
ok cool, how did that go	
[7:59	
<u>I suck at flying</u> jammed	
[7:59 AM]:	
it's tough huh?	
	rst few times, that's what scares me about showing any of this to them
	after 3-4 tries, but the first few are ugly
[8:00	-
· = =	the elevator effectiveness a little. Yeah we talked about using a reasonable cg to make it doable nem to succeed without DLC
	g pitch and power and get in a PIO
[8:03 AM]	
	nave it trimmed up pretty well when you start your appr descent, and the thrust coupling is way
, ,	DLC, at least that's what I found
	retty much disregard your airspeed :)
[8:05	
agree. The profiles we v	vere flying gave you the plane 10 mile final, level on speed at F15. Pretty stable start.
yesterday was talking ak	pout starting at altitude. That is going to be a bag of worms and a waste of time.
[8:05 AM]:	:
that is irrelevant, since tl	he DLC doesn't work until the flaps are extended
[8:06	
-	et into it with her, told her we were still building the profile
[8:06 AM]:	
	how them multiple scenarios from alittude thru landing, that's stupid
[8:07	
	a sequence that we will go over. We will also pull some of the slides from the pitch and
gave last May to	the AEG. Were you there for that pitch?
i	
yes it was like dogs watching	g TV for the AEG (and me too)
	plah blah blah, stuff non-engineers and test pilots can't really understand
	line up between max and NG, which is supposed to prove they fly the same
[8:10	
Arramananal	ς, yeah a little too technical. I think that didn't sit well with as she wants to experience it.
\	at yesterday, in that we are moving from the chalk talk to the practical demos to win their

confidence

[8:11 AM]:
unfortunately I think she is going to suck so bad at flying them, she's going to demand this be trained in the sim
I started thinking last night, what if we mandated the training in the NG starting in 2016, so everyone was trained on it
ahead of MAX, (like RCAS)?
if there real concern is being trained on it in general, than it should be sufficient to get everyone trained on the NG
the theory again being if you can do it in the NG, you can do it on the MAX
[8:15 AM]:
agree that is the risk. well understands that. One reason the proposed sequence includes a normal F15 as a warm
up and the scenario builds from there. Mandate training jammed elev? Not a bad idea if you like practicing bleeding. We
can recommend adding that into 2016 recurrent, but that would be admitting the difficulty of flying it in a model that has
already been certified
8:17 AM]:
I understand that, but if that's going to be there position, then that may be only option
I would prefer we just go fight all these battles at once in DC and be done with it
we're going to have to sit back and wait for their latest IP and then tear it apart with a logical argument or whoever
can take to DC to end this
[8:19 AM]:
agree. Need to call this morning and find out more about this EASA/OSD meeting June 9-11 she talked about
yesterday. I can't find anyone here that knows about it. Maybe has more details. Will ask her about an ETA on the
IP
[8:20 AM]:
I saw that email traffic
interesting that no one in Boeing knows about it
[8:21 AM]:
Getting the info second hand from the AEG may be the problem. Will clarify with her. Will also see her this afternoon at
retirement party
[8:23 AM]:
Ok cool

From:	Boeing Employee	
То:		
CC:		
Sent:	6/6/2017 9:21:51 PM	
Subject:	FW: MAX LEVEL B DIFFERNCES SOLUTION	
Attachments:	NG to MAX Differences.pdf; Procedural Differences.pdf	
be creating a difficult an your region for other M Please review with you	quire a MAX simulator for its pilots beyond what all other regulators are requind unnecessary training burden for your airline, as well as potentially establistaX customers. I have suggested some alternatives to requiring a MAX similar team and let me know if you would like to discuss further. I also attached a just how similar the MAX is to the NG.	uiring that it will sh a precedent in ulator below.
From: Boeing Employer Sent: Monday, June 05 To: Cc: Subject: RE: MAX LE	· ·	
Please keep in mind that Handout differences or briefings to your team in hesitate to ask. Rather than require a sign requiring a minimum hor requiring the first flight operator inputs, that you quite burdensome to you	I have attached the technical and operational differences presentations here at the supplementary and non-normal procedure differences are considered ally, as they are read-and-do procedural differences. I would be happy to predif you would like, or you can review them and if you have any questions please imulator event, you may want to consider what other airlines have thought a purs requirement on the 737NG before doing the MAX differences training, on the MAX be with another pilot who has already flown it. I believe, based by will find any of these solutions to be acceptable. A simulator training requipment on the maximum as you prepare to bring the 737 MAX into your operation.	Level A, or esent these ase do not about, such as or perhaps on other irement would be
Regards, 737 Chief Technical Pilot		
From:		
Sent: Monday, June 05	i 5. 2017 9:33 PM	
To:	@boeing.com>; @boeing	ı com>
Cc:	, laboring of the state of the	<u></u>
J	1	

Subject: RE: MAX LEVEL B DIFFERNCES SOLUTION Dear
Thank you for the explenation. I will discuss further with my team.
Regards
Deputy Training B 737
From: @boeing.com>
Sent: Tuesday, June 6, 2017 11:01:40 AM To: Sent: Tuesday, June 6, 2017 11:01:40 AM
Cc: L Subject: RE: MAX LEVEL B DIFFERNCES SOLUTION
There is absolutely no reason to require your pilots to require a MAX simulator to begin flying the MAX. Once the engines are started, there is only one difference between NG and MAX procedurally, and that is that there is no OFF position of the gear handle. Boeing does not understand what is to be gained by a 3 hour simulator session, when the procedures are essentially the same.
Perhaps we should discuss at your earliest opportunity. The FAA, EASA, Transport Canada, China, Malaysia, and Argentinia authorities have all accepted the CBT requirement as the only training needed to begin flying the MAX. I'd be happy to share the operational differences presentation with you, to help you understand that a MAX simulator is both impractical and unnecessary for your pilots. Please let me know when would be the best time to have a webex discussion.
Thank you
737 Chief Technical Pilot
() BOEING
From:
Sent: Monday, June 05, 2017 8:42 PM To: @boeing.com>; @boeing.com>
Cc: Subject: RE: MAX LEVEL B DIFFERNCES SOLUTION
ii I'm still on going with the team .
The syllabus still on progress .On my side i decide to gave the transition pilot with 1 sim familirization. And also gave them 24 hours ground class room including CBT that Boeing gave us and flight technique compile with company guidance procedure.
Actually i have question regarding ETOP for Boeing 737 MAX
as a Technical Pilot B 737 at will intouch with you
I will give you a call after I discuss with my team on syllaby.
Best regards

Deputy Training B 737
From:
I would like to discuss what if any requirements beyond the Level B CBT the DGCA has required of you, or if your airline has determined any additional training is required. Please call me today on my cell phone, at your earliest convenience. Do not worry about what time it is here for me. My cell is Thank you.
737 Chief Technical Pilot
DEING
Sent: Monday, June 05, 2017 8:26 PM To:
Thanks
Deputy Training B 737
Sent: Tuesday, June 6, 2017 10:21:06 AM To: Boeing Employee Cc: Subject: MAX LEVEL B DIFFERNCES SOLUTION
I just spoke withat his mobile # below. Currently in FFS and busy rest of day. He welcomes you call him this time tomorrow at number below (and attached). The number shall be: Mobile
This would be 11:00 AM time. Best Regards.
Boeing Flight Services Regional Sales Manager APAC Singapore UTC/GMT + 8 hours
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on the information contained in this email or an	all and may also be privileged. If you are not the addressee, do not disclose, copy, circulate or in any other way use or rely attachments. If received in error, notify the sender immediately and delete this email and any attachments from your cure or error free as the message and any attachments could be intercepted, corrupted, lost, delayed, incomplete or do not accept liability for damage caused by this email or any attachments and may monitor email traffic.
<u> </u>	<u>!</u>
This email and any attachments are confidential	ll and may also be privileged. If you are not the addressee, do not disclose, copy, circulate or in any other way use or rely
on the information contained in this email or an	y attachments. If received in error, notify the sender immediately and delete this email and any attachments from your
system. Emails cannot be guaranteed to be se	cure or error free as the message and any attachments could be intercepted, corrupted, lost, delayed, incomplete or
	do not accept liability for damage caused by this email or any attachments and may monitor email traffic.

From:	@boeing.com>
To:	Boeing Employees
Sent:	1/31/2018 9:38:16 AM
Subject:	Conversation with
	<u>La caracteria de la ca</u>
<u> </u>	
9:16 AM	<u>l:</u>
said	cooridnated it on the way to Russia. I asked him for any email trail
9:17 AN	
r	lid not know if there was an AR pilot
9:22 AM	l:
from	
·-·	idn't believe there was any discussions with the cert pilots on this.
(tmi)	
F	ess up at least one thing during this whole process
9:24 AN	
	, why this is a big impact?
9:27 AM	
-	never told this was coming, they didn't properly evaluate if for cert purposes, to keep with our rengine indications, that turning the oil temp amber for 31C and below is required.
	he FCOM without them knowing. you know they don't actually review the FCOM
and on a personal not	and the first of t
pilots, when now it loo	
probably the only one	we missed.
9:30 AN	/I :
	ole issue about the engine instruments not indicating a green range? somehow that was certified on
the NG and MAX. that	at i believe is a bigger issue than this one
9:37 AM	···
ii	e it on the Tues agenda
9:38 AN	
ck email in a minute, l	have some info on why only white ranges is acceptable

From:	n@boeing.com>
To:	Boeing Employees
Sent:	7/7/2016 4:52:38 PM
Subject:	Conversation with
ŗ	8:59 AM:
L hou	6.53 AIVI.
hey	O ANA.
	9 AM:
yeah	8:59 AM:
hasi kaa	••
İmanınınınını	n the standard NG to MAX pitch? They are coming here 7/25-26 for a Ecab demo 9 AM:
L	
I don't remember	
who from ?	V 9:00 AM:
jv	V 9:00 AM:
	; 0 AM:
don't know the n	
Listins as a Disa] 9:01 AM:
	ctor-Boeing. Not sure what that means. is putting together the agenda, I will have him put in time for
the pitch before o	
X	2 AM:
sure	
Daniel and a series	
Remember to pro	od about and working Aug 13 and 14, We want to get this schedule out asap.
Thanks	O ANG.
	0 AM:
and ILS only, anythe	
Tieerlike we nad	another IOU from them to consider
an IOII for the de	_ i g:41 AM: icing stuff that we won't have in time for the T3
	1 AM:
(i	ur notes from our last mtg plz?
f. f.	di flotes from odi fast filtg piz:
right	n't have the 120 min limit, which is huge
100KS like we wol	9:42 AM:
that's it from my	nerel de la company de la comp
	2 AM:
l	ry 60 min instead of of 30 min
	this run up is mandatory, so they don't think of it as a memorized limitation
I I downplay that	9:44 AM:
new tonic COPA	meeting 7/21. For the tailstrike discussion, we want you, rom Anyone else?
1	6 AM:
maybe ask	if he can attend to discuss how our IPs train rotation and landing?
inaybe aski	9:46 AM:
okay	J
will ask him to att	tend
	7 AM:
cool	
	3:16 PM:
;	production of the second

hey	
3:17 PM:	
hey	
is it too early to start drinking?	
3:17 PM:	
never. how'd it go?	
3:19 PM:	Ĭ
she insists on being able to "feel" the handling characteristics of the DLC for inadvertent actuation. So she's going to bul	ıy
her way onto the cert flight with But that won't be until AFTER the T-tests	
u huh	
but that is one person (her) opinion, not exactly a validation process	
3:21 PM:	
I know, but still presents a post-T-test risk	
how do we handle this?	
3:21 PM:	
do we have a date for that flight?	
3:22 PM:	
run it by and his team first, then elevate to to see if we can get the flight done as early as possible? I know they're	e ir
the process of re-working the system a bit after the engineering flight a few weeks ago	
do you recall if there is proof the 787 doing a T2 and T3 on the server by chance? Now I have a flight test guy questioning	ıg
us about T1 vs T2/T3, etc. Trying to blow up our whole plan	
3:23 PM:	
Good to go to [1] I think the way to go is to challenge the process of her alone making the decision, and on a cert flight	
I can look for the 787 tests	
3:24 PM:	
I'm not too worried about her. She knows damn well that if her and her alone makes this call that this stupid NNC require	es
sim training that she'll get crucified. She just wants to say she "evaluated" it. just like she rolled over on RCAS	
3:25 PM:	
As long as she comes up with the right answer. What's the flight test guy's beef?	
3:25 PM:	
I'll fwd	
I think I'll just call him, I don't feel like wasting that time and energy on an email if I don't have to. I just want to be able to	0
tell him T2/T3 was done, not T1	
3:26 PM:	
okay. Talked/Webex'd with Nice guy. He has a family reunion in Iowa Sat the 6th, would like the early sin	n
on the 5th so he can get out of town. What if we pair him with for the sims?	
3:28 PM:	
ugh. I'm ok if s	
I didn't see the STAR course email til after I left Can you send her an email? 3:30 PM:	
Sure.	
3:34 PM:	
If we have the guy in the sim with a TCCA guy, then we need watching the TCCA guy and watching the	
guy.	
I got that wrong	
The EASA pairing would need and you watching. The TCCA/FAA would require watching	
3:36 PM:	
oh you're right, we can't mix them otherwise I can't be there to evaluate, for consistency purposes	
3:41 PM:	
or, we move the guy to do sims with the bunch 7/31-8/2. That would mix him with the T3 guys, which probably isn't	t
that big a deal the state of th	

3:41 PM:	
sure, let's do that	
as long as it doesn't create a big break in training for anyonee	
3:43 PM:	
Lemme do this, I'll contact and offer that up to him. He was bidding his schedule today. If he	is okay with that, then I
will ask the ASA and AAL guy if one of them will switch groups	is citaly than a law, and it
3:47 PM:	
ok cool	
I'll cover the rest of our mtg today with you tomorrow in person. lots of stuff to go over	
3:47 PM:	
L	
talking to him now	
4:04 PM:	Control of the Control
he can catch a 5:45 flight to Atlanta after his sim on the 5th. I told him we would drive him from si	m to terminal. No change
to the schedule.	
4:05 PM:	
ok cool	
4:06 PM:	
It sounds like he isn't getting (or asking for) support to drop trips. I told him we would be glad to	
asks us. He asked about hotel, I told him he should ask to put him up, probably at the usual l	ayover hotel.
I didn't get intocovering per diem	
4:07 PM:	
oh jeez	
damn cheap	
4:08 PM:	
He sounds a little timid to ask. We may want to put a bug in there ear to take care of him	
4:12 PM:	
do you know if CAS funds the T-test WSRD flights?	
4:13 PM:	
dunno, is there a line on the WSRD request for CAS to sign off?	
4:14 PM:	
yes	
who's the CAS guy again?	
4:15 PM:	
	Arawa looking for
is the top man, although he would probably delegate any question you send him.	Are we looking for
additional \$\$, or verifying what we have? 4:16 PM:	
h	
we need 4 hours for each T2 and T3 right?	
have this guy from FIt Test Integration asking who pays for it	
4:17 PM:	
yes, at least. Reading the email trail on this right now	
4:17 PM:	
he's the WSRD coordinator	
4:19 PM:	
drawing a comparison between the MAX and 787-9 doesn't work.	
4:19 PM:	
is that the T1 he was referring to?	
I didn't look close at it	
4:20 PM:	
yes, he said that the 787-9 only needed a T-1, so why does the MAX need a T2 and T3?	
4:20 PM:	
I did find the T-2 and T-3 stuff in the server	
ah, I missed that	
4:23 PM:	

	OMG, this process is so messed up
	I've got 3 emails about the t-tests from 3 different groups today
-	4:24 PM:
Ĺ	We Boeing elected to forego the T-1 because we thought it was a little too risky to send guys into the MAX with no
	training
1	4:24 PM:
000	no one knows who is doing what!
	4:29 PM:
١	The AC is clear that no training can be given for a T1. We thought that was a stretch, and a waste of time to go through the
	motions
	4:30 PM:
	yeah I'll talk to him tomorrow and smooth it out
	4:32 PM:
	was gung ho to go and give it a shot, but with the AEG's attitude at the time (and the slow progress of things, due to
r-	his lack of response) it was decided to not go through the pain of busting a T-1
Ĺ.	4:37 PM:
	what did say about the other 2 FAA guys working on the weekend?
	4:41 PM:
	she said she'd get back to us tomorrow, no word back yet
	promised answer on ILS vs RNAV tomorrow too, they're torn amongst themselves
1	4:47 PM:
,	see you tomorrow, I'm probably bugging out about 2:00
L	4:49 PM:
	ok later

From:	Boeing Employee
To:	Boeing Employees
Sent:	3/17/2016 1:49:33 PM
Subject:	Conversation with
[1:35 PM]	(•
how's it goin there?	•
	PM]:
	efore lunch. No big objections. One question to send to about how well LMS will play with
the E learning	
[1:37 PM]	
I deleted your commen	t about the track up vs hdg up on the PFD compass, because we're trying to get that changed due
•	p with IRS alignment, and then I told them it was a threat to Level B because of the difference in V1
cut training. I love my i	
	BPM]:
Have a question if we w	ould have a STAR course. Said no, not for now.
L	; ave to look at building the STAR
]	BPM]:
L	tandard for the rose on the MAX?
[1:38 PM]	
that's what is g	joing to push for
with track up, if you hav	ve to go into ATT mode, you can never get a hdg displayed on the PFD compass rose if it's track up
1:39	PM]:
	TD will have to gin up the footprint. I'll send that comment to TD. Was asked about reverse
	eak. thinks that is a good idea.
[1:40 PM]	
55	is for engine out V1 cut maneuvering, and the ability to fly the correct ground track in a big
crosswind cool	
	PM]:
	y they want reverse differences help to get the funding from CAS
[1:40 PM]	
has CL and NG	in is buying MAX 200s. I'll ask them about their fleet plan tomorrow at the cab demo
we're giving them	
,	nave to deal with CL/MAX til AFTER Level B determination!
	PM]:
	ne about CL to MAX, or what the confidence level was on level B.
[1:42 PM]	:
sweet you can't lie if you don'	t have to talk!
	PMI:
,	picture spiel at the beginning, then left
li	the differences modules?
[1:43 PM]	
I'm looking at your nov	V
I should be able to send	d 2 of them back in about an hour
11:45	PMI:

good, that will passify them. We really don't need them getting in our chili about deadlines

r=====================================
[1:45 PM]:
T know
this damn RSAT fiasco really screwed up my ability to work on these this week
[1:45 PM]:
no question there
[1:45 PM]:
I got that put to bed, at least for now, so now I'm on the training
[1:45 PM]:
cool
[1:46 PM]:
now there is a skewed flap position indication issue
the engineers are trying to find a fix
it just never stops!
[1:47 PM]:
agree

From:	Rooing Employee
	Boeing Employee
To: Sent:	Boeing Employees
Subject:	RE: MAX Recurring meeting 4-12-16
Attachments:	NG to MAX Differences.docx
	differences document to outline all of the large and small changes on the MAX (see last The concern is that sum of all of these small changes could potentially jeopardize level B
Please take a look and send to the cert pilots.	d add/delete as you see fit. Once it has made the rounds within our group then we need to
Thanks,	
Flight Technical & Safety	
~ Desk	
~ Mobile	
From: Boeing Emplo	vee
Sent: Tuesday, April 1	
To:	@boeing.com>;
a	
Subject: MAX Recurri	
FYI,	
From the MAX recurring	ng meeting:
	CE annunciator panel light illuminating in flight without a known cause.
· ·	to add an additional camera to capture overhead panel lights to track reason ke time to get camera
	neeting late so no more information.
	NTI-ICE light latching on battery starts
	thes on standby power if in flight
the MC light	e to increase the time the amber L/R VALVE WAI light can remain illuminated before setting
	o reduce a lot of the nuisance alerts that are being seen in flight tests
	ANTI-ICE light illumination when engine thrust is suddenly increased.
;	e, descent followed by level off when EAI is on expressed a BIG CONCERN that all of the small changes are really starting to add up.
	e a threat to level B
	small changes in systems that where not supposed to have any changes from NG
福	lectrical - 3 or so second delay to engage generators after start
	onger transition times in EAI/WAI valves onger engine start times
§ E	tc.
January 1	would like to start a list of all of the changes, big and small.
81,	will start working on this list. Will send around internally to compile and then will send to the pilots for comments.

l han	KS,	
Flight	Technical & Safety	
[- Desk	
	~ Mobile	

From: To: Sent: Subject:	Boeing Employees 5/15/2018 1:36:27 PM Conversation with
	9:02 AM:
you on a call?	
∂:02 AM:	
Yes but it isn't importa Just TRB	ant
	9:02 AM:
Ok, need to chat with	you
9:03 AM:	
	aw Damper runaway malfunction in it's entirity?
	have to change the release notes that said the issue wasn't on offer but has issued a closure ne saying that the issue that wasn't on offer was accepted in the load it wasn't meant to be checked
9:58 AM:	
Number of oustanding	the following from my opinion: g DRs - quantity touching almost every aircraft system. Failure to meet targets, duration of open DR that f closure, ECDs for certain systems being pushed to late 2018 or 2019
Unknowns -	
Tiller control loading - re underperfoming state	equires another sofware update to an already froxen load and the best it does it restore the tiller to the known
Air conditioning - now co	ompromising sound QTGs - these tests form one of the two critical elements of the Level D update
Model crash, EGPWS T	ERR FAIL or major model overrun
Visual - models, aliasing	g, and lens movement
QTG issues - FAA have	e raised concerns over the resource data for 1b3 and provided a list containing other failures
Resource Constraints	- do all parties have sufficient resources going forward to prioritize Boeing issues?
10:03 AM:	
My guess, the vote w	ill be 5-3
	10:19 AM:
did lget a hold of	- ÿou?
10:22 AM:	
_	een thrown to the wolves
His vote is deferring to Final list:	o me
Number of oustanding	p DRs - quantity touching almost every aircraft system. Failure to meet targets, duration of open DR that follosure, ECDs for certain systems being pushed to late 2018 or 2019
Unknowns -	

Tiller control loading - requires another sofware update to an already froxen load and the best it does it restore the tiller to the known underperfoming state

Air conditioning - now compromising sound QTGs - these tests form one of the two critical elements of the Level D update

Model crash, EGPWS TERR FAIL or major model overrun

Visual - models, aliasing, and lens movement

QTG issues - FAA have raised concerns over the resource data for 1b3 and provided a list containing other failures

All the time the sound / tiller are being worked is time that the TRU QTG specialist is not resolving QTG issues

Training - IPSS indicates no training scheduled on this device for some time so what is driving the requirement at this time?

Resource Constraints - do all parties have sufficient resources going forward to prioritize Boeing issues?	
10:24 AM:	
yep	
10:36 AM:	
have you talked to he seems to be the only other pilot on the call	
10:36 AM:	
I have not	
I doubt will call in	
10:36 AM:	
Nor I - works for that is why I was asking	
10:37 AM:	
Let's see how they do this	
0:37 AM:	
0k	
10:37 AM:	
I wonder if is just lisening in	
listening	
10:37 AM:	
h	
maybe	
10:55 AM:	
We know where \ vote is going	
10:55 AM:	
I know	
Are you wavering?	الم
i just forwarded the meeting notice as he asked if SM were on the call - didn't realise it went to I'm doomed	all
10:56 AM:	
Nope, not wavering It's a no	
10:57 AM:	
E	
ok - me too	
10:57 AM:	
If it's a yes they would have 48 hours to fix the master caution and tiller for F&S to be signed	
I really would struggle to defend the sim in front of the FAA next week	
10:58 AM:	
And what if somebody books training next friday?	
10:59 AM:	
Exactly, when it's qualified it is ready as far as I am concerned	
11:00 AM:	
They are not looking at it like that - just like no external customers use NG#1	
11:02 AM:	
ok so no problem then!	
11:02 AM:	
ye olde magician trick	
11:02 AM:	
<u>If they nearly walked off last year, then they will probably be very happy to see it again I'm sure!</u>	
11:02 AM:	
of course	
And some of the older issues too	
11:10 AM:	
Is that correct?	
11:10 AM:	
They are not declared on any of the other visuals	
11:10 AM:	
same on all our devices?	

processing the second s
11:10 AM:
simulators even
11:19 AM:
They are desperate for a go
11:19 AM:
No kidding
11:19 AM:
Every system is impacted by DRs - how do you work around all DRs?
11:20 AM:
got it from him about 6 weeks ago
Lagree
Thank you
11:21 AM:
He will be picking up the pieces
11:21 AM:
yep
11:25 AM:
Got your night vision goggles? You'll have to do qual with the lights switched off
11:26 AM:
haha
11:27 AM:
this isn't a true statement - the campuses declined the newer loads
11:27 AM:
Yes, I still haven't been forgiven by god for the covering up I did last year
11:27 AM:
None of this changes my mind
11:27 AM:
Can't do it one more time. the Pearly gates will be closed
11:27 AM:
American
I just received a shovel to start my journey to the hotter place
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it all relative		
it all relative 11:56 AM: Iol 11:56 AM: And now the backside covering happens 11:59 AM: hmm, did not see that coming 11:59 AM: Money 1:15 PM: Let's see what happens over the next two days There's going to be a lot of pressure on us to say yes 1:15 PM:	The b	
In the state of th		
In the second state of the	it all r	relative
In 11:56 AM: And now the backside covering happens In 1:59 AM: hmm, did not see that coming In 1:59 AM: Money In 1:15 PM: Let's see what happens over the next two days There's going to be a lot of pressure on us to say yes In 1:15 PM:		11:56 AM:
And now the backside covering happens 11:59 AM: hmm, did not see that coming 11:59 AM: Money 1:15 PM: Let's see what happens over the next two days There's going to be a lot of pressure on us to say yes 1:15 PM:	lol	
11:59 AM: hmm, did not see that coming 11:59 AM: Money 1:15 PM: Let's see what happens over the next two days There's going to be a lot of pressure on us to say yes 1:15 PM:		11:56 AM:
11:59 AM: hmm, did not see that coming 11:59 AM: Money 1:15 PM: Let's see what happens over the next two days There's going to be a lot of pressure on us to say yes 1:15 PM:	And n	now the backside covering happens
I1:59 AM: Money 1:15 PM: Let's see what happens over the next two days There's going to be a lot of pressure on us to say yes 1:15 PM:		
I1:59 AM: Money 1:15 PM: Let's see what happens over the next two days There's going to be a lot of pressure on us to say yes 1:15 PM:	hmm,	
Money 1:15 PM: Let's see what happens over the next two days There's going to be a lot of pressure on us to say yes 1:15 PM:		11.50 AM
1:15 PM: Let's see what happens over the next two days There's going to be a lot of pressure on us to say yes 1:15 PM:	Mone	i e
Let's see what happens over the next two days There's going to be a lot of pressure on us to say yes 1:15 PM:	INIOHE	•
There's going to be a lot of pressure on us to say yes 1:15 PM:	IVIOITE	
1:15 PM:		
·	Let's	e's going to be a lot of pressure on us to say ves
	Let's	

1:16 PM:
ok
1:16 PM:
So it comes down to air conditioning - but still may say no
]1:16 PM:
Will you still vote no?
If they fix it, will you say yes?
1:16 PM:
If thinks there is a regulatory issue, the answer will be no
1:17 PM:
I will have to talk to him before then
1:19 PM:
Yes - but you are in a quandary. asked if there were any other issues that prevented a Go beyond tiller/sound/master
caution
1:21 PM:
That's true from a pilot perspective, but there are other issues too, like the QTGs, blanking screen etc
1:22 PM:
I know - that is what people aren't considering
1:23 PM:
It's the overall simulator. I could be "happy" from the pilots perspective, even if I am on the edge, but the issues that don't
affect pilots are still significant
Exactly - people have acquired tunnel vision - they are concentrating on two issues when there are hundreds more

From: To:	
	Boeing Employees 12/12/2017 8:43:40 PM
Sent:	Convergation with
Subject:	Conversation with [
8:35 F	
dude why are you	u online. Go enjoy your family 8:35 PM:
	the computer down!
	you doing on this late?
8:35 F ok good	PM:
	8:35 PM:
who are	d
8:35 F	
I have a call with	to discuss MAX
they're idiots	
L	8:36 PM:
Ahthe HUD stu	
the morons who	™: took HUD on MAX
	CA in India is apparently even stupider
if that's a workd	
work	
word I'm drinking obvio	uslv
	8:36 PM:
Sounds about rig	ht!
8:37 F	
and I do this aga	in Thurs night with in India
Did you soo wo o	§8:37 PM: jot the slot at midnight on thursday evening for landings?
8:37 F	
more stupidity	····
yes	σ
we'll just do landi	ngs, no instruments right?
At least very week	8:37 PM:
8:37 F	t have to actually travel to India
me you and	
	8:37 PM:
No instrument	
8:37 F	PM:
y ok good	
ok good EFF that	
so stupid	
	8:38 PM:
1	You can do you landings and get out
	landings
8:38 F u sure?	TVI;
I don't mind stayi	ng
	8:39 PM:

	Absolutely. You work 1000% harder than me, and anyone each and every day. I think I can hang around another few minutes!
	Let me know if you need help with -10 estimate. I don't mind doing it. I can do it tomorrow
(8:40 PM:
	not true, but thanks. OK, I'll bail after my landings, which will be terrible as you know
	I was supposed to do the -10 estimate today, apparently I way over added to it accidentally, so now I need to un-screw
	that
	I don't like PM crap
	I just like airplanes, football, chicks and vodka, not in that order
	8:41 PM:
	Nope, PM sucks. At least I didn't do one this summer! First one for a whole year!
	haha, make sure you the order right!
i	8:41 PM:
1,	No I meant Project Management
	not our stupid end of year PM
	I don't care about that crap
	8:42 PM:
	Ahh. yes. Same here. Hate, hate it. So glad we had
Ī	8:42 PM:
Ĺ	I work hard and let it play out
	it's garbage
	8:42 PM:
	Again, let me know if you need help
	8:42 PM:
	will do
	8:42 PM:
	Signing off. Have fun with
	See you tomorrow
-	8:42 PM:
į	now go drink with your wife and play with your boys
	and kick the dog
	just kidding
	8:43 PM:
1	haha, kick the wife and play with the dog!
	8:43 PM:
	NO!
	divorces are too expensive!
	see ya tomorrow
	cheers1
	!
Ī	8:43 PM:
i	See voul

From:	@boeing.com>
To:	Boeing Employees
Sent:	4/26/2017 12:03:48 PM
Subject:	Conversation with
11:06 AM:	
	eave in 8 hours for airport. I'll land around 1230 Thurs. Anything before I sign off til then?
11:06	
Nothing on fire!	
Try to get some shut ey	e before the flight
11:07 AM:	
except	
and my shit	
11:07	AM:
true	
11:07 AM:	
and all the bulletins that	
11:07 That and a million other	
11:07 AM:	SITIALI ISSUES
	er else I've dropped the ball on
11:07	
r	andards since the T5 test should all have been done a class 1 airports, Moses lake is class 2
Let's see how that goes	
11:08 AM:	
what? Then how do we	get away with only using MWH in our type rating course, cuz it's 142?
11:08	AM:
Because 142 is differen	t from what she is looking at. I don;t understand the details. is "working" with too
11:10 AM:	\
WHAT A MESS	
11:11	AM:
Anything TD touches	
11:17 AM:	U
	on those useless bags of #\$@% the last 3 years ut together a killer perfect course if that was all we had to do
and done it in like 3 mor	and the all the production of the product of the pr
11:18	
	vaste of time, effort and money that was completely avoidable!
I agree, a fraction of the	
11:18 AM:	
ridiculous	
11:39 AM:	
OMG, as if I wasn't con	ifused enough is trying to say it works per design!
11:39	
Sounds like a sucky des	sign if that is the case
11:39 AM:	
-	build a cruise descent that only works form the initial VNAV path!
decent make conserts n	
doesnt make sense to n	ne elated FCOM pages for them to review
11:41 AM:	Mateu i Oom pages for them to review
	re's no way the FCOM covers this only applies to the initial path. This needs to get fixed if that's
200.5 4114 (1101	,

the case. Which means we need to tell crews NOT to use this via yet ANOTHER OMB

if you agree go ahead and stress that on the next 50 emails that ensure. I need to go to bed, I'm running on like 2 hours

sleep in last 30 or so
11:42 AM:
Get some rest!
11:42 AM:
I'm just praying the musical porn show doesn't start up again at 3am
11:43 AM:
LMAO!!! Hey, its free porn!
11:45 AM:
who cares when you're exhausted
I'm friggin delirious dude
between this FMC crap, the issue, and everything else I'm spent
11:47 AM:
I bet, you need some time off!
11:50 AM:
uh yeah! we all do!
by we, meaning the 737 group. the rest of the slackers can pick up our work!
11:50 AM:
The FMC ignores the altitude????? WTF!
Agree! We should get them to do CS3s for us
11:51 AM:
right?
nice find in Vol 2!
this airplane is designed by clowns, who in turn are supervised by monkeys
11:52 AM:
Sounds like they are implying that the description is correct, unless you get a change to clearence!
11:52 AM:
piss poor design
11:52 AM:
This FMC shit must get much better
11:52 AM:
just like you said, if I enter a new altitude or AS constraint, I expect the cruise descent to figure out the new path to it
oh I'm sure it'll get better when Boeing engineers design a whole new one
wait? Who is left to do such a thing?
11:53 AM:
no one!
Just got a call on it this morning, they expect to do only two sets of 1 weeks airplane testing!!!!
11:54 AM:
can do it, I'm sure he's bored now
11:54 AM:
Normally the FMC is tested during an entire flight test program, like the 787 or 737 MAX
11:54 AM:
jesus, it's doomed
any cab testing like we asked for?
11:54 AM:
1
I said that we must do much more than that, We need lots of operationally simulated testing
using the FMC the way pilots do, not engineers and engineering pilots flying between BFI and moses
11:55 AM:
so now we're going to pursue airplane design changes to the -9 to add poor man's tailstrike protection. expect to see a
mtg notice on it for tomorrow this for the issue
Patrik H 11:55 AM:
haha, just what we need!
Let's just patch the leaky boat
11:56 AM:
of the 4 options, the one that I felt sucked the least, and had the least potential for full sim training was using the
functionality. His input from I pilote was very limited. The 4 we tentatively brought forward to I include Speiler Ditch
His input from pilots was very limited. The 4 we tentatively brought forward to include Spoiler Pitch Augmentation, Elevator Feel Shift, TSP Annunciation, and Flare Guidance.

11:56 AM:	
We have to go with the least impact option. Doing nothing doesnt seem to be an option	
11:57 AM:	
14.FO AM.	
11:58 AM:	9
	į
11:58 AM:	
I don't see any of these flare assist options won't trigger sim training by	
11:58 AM:	
l agree "	
11:58 AM:	
that's for these smart engineers to figure out	
11:59 AM:	
Yep	
12:01 PM:	
alright, I can't keep my eyes open. 11pm here, 6am wake up. chat with you Thurs.	
12:01 PM:	
nite, nite!	
er.	

From:	@boeing.com>
To:	Boeing Employees
Sent:	6/16/2016 8:29:41 AM
Subject:	Conversation with
	\
7:49 AM:	
this has me a little con	cemed
7:50	AM:
I guess the proof is in	the pudding. Sounds to me like #2 is better because it doesn't mess with roll feel
7:51 AM:	
agree	
7:51	Δ Μ·
	ig impact to landing distance if it is only a small deployment rate change
7:52 AM:	g impact to landing distance in this only a small deployment rate onlinge
you would think	
-	the lack of de-rotation, given how much tailstrike is a concern to our customers
	the lack of de-rotation, given now much talistine is a concern to our customers
7:54 AM:	Thosto are asing to have the augment cohodule?
	T-tests are going to have the current schedule?
7:56	
	e, won't make the T test
7:57 AM:	
keep our fingers cross	ed no one notices it, and if they do, worst case we say there will be a fix for it coming
7:58	AM:
maybe chat w/the fligh	t test bubbas and see how noticeable this really is
7:58 AM:	
well they've said in our	meetings it's definitely noticeable, but and I didn't feel it
maybe only to test pilo	ts it's noticeable?
7:59	AM:
it may be transparent t	to the average bear
8:01 AM:	
that's what I'm hoping	
8:12 AM:	
there's a handy new fe	eature_flashing_MC!
8:13	
	sent you comments on the MAX CBT topic
8:16 AM:	contract of thein ot obt topic
	auld we ask to give us a name at lineamous to start working this with us?
	ould we ask to give us a name at campus to start working this with us?
8:17 /	
yep, maybe also find a	Boeing body that works with locally to orchestrate this with him and the regulators

From:	@boeing.com>
To:	Boeing Employees
Sent:	1/5/2016 9:08:26 AM
Subject:	Conversation with
[7:47 A	M]:
yo	
[7:	48 AM]:
yo	
[7:48 A	
what days/times are v	ve with the regulators?
[7:	48 AM]:
Tues/Wed Jan 19/20.	Meetings in the a.m., ecab in the afternoon
[7:49 A	M]:
any evening commitr	nents with them?
Sales wants me to har	ng out with []Wed night
and I'm supposed to	give them a cab session too
I need to figure out w	hen they want the cab
	51 AM]:
no evening commitm	ents, was thinking of going out for a beer with them on Tues after the cab. Will be a small group.
(TCCA),	(MIA FAA) on Wed only
I'm thinking a debrief	after the Wed pm cab session.
Depending on what v	ve come up with for cab show and tell, we may not need a whole 4 hours on Wed
[7:52 A	M]:
ok cool	
gonna be an interesti	ng juggling act for me that week
[7:	53 AM]:
you could do cab on	Tuesday after we are in there with the regulators, or same time on Wed
[7:55 A	M]:
yeah, let's see if we ca	n come up with a 2 hour cab plan for Wed, so I can use the last 2 for
	57 AM]:
It will be interesting t	for the cab sessions in that aren't 737 qualified. That leaves as the
ones that have the un	derstanding of the differences between the NG and MAX. hasn't gone to 737 school yet.
7:58 A	
dogs watching TV	
į[7:	59 AM]:
Funny, I was going to	say the same. I think we make our money at this meeting by getting them to buy into the training
and evaluation plans.	Unfortunate that won't be here, he can corral and guide her. can to some extent.
[8:00 A	
well, I think with all th	e inexperience present, we should be able to gang up on them and steer it the direction we want. We
just need to figure ou	t what that direction is
	00 AM]:
agree	
[8:33 A	M]:
i	ORW AFM verbiage I came up with?
	55 AM]:
	etting tapped for other stuff
[8:55 A	
I hear va	

I'm heading for the MAX gen fam briefing in a few, I'll be in after that

	BTW wants to meet b4 our reg mtg
	I'm trying to set something up for end of this week
	he wants to give us some guidance based on their convos with AEG
	[8:58 AM]:
	I talked to about sliding the diffs course left, told him we need an answer nlt 2 weeks. Hinted that the
	request from program is low key now, but will most likely be more formal and involve our bosses. Like the idea of the
	meeting, will give us more understanding/ammo for dealing with AEG
-	[9:01 AM]:
	yup
	get us to ask all the right questions next week

From:	@boeing.com>
То:	Boeing Employees
Sent:	9/20/2016 4:45:27 PM
Subject:	Conversation with
	Marian and the second
3:24 PM:	
did I miss the 2 issues v	ve want to talk about?
3:24 P	M:
nope	
~	er radar config not working for 20 seconds each time you switch between the systems
3:26 PM:	Tradar coming not working for 20 coconiae each time you critical between the cycleme
oh sweet jesus	••
H 3:26 P	
and gues who one of the	e 3 affected customers would be????
<u>L</u> J	
4:12 PM:	
this is a joke	
this airplane is ridiculous	i de la companya de
4:12 P	M:
getting better and better	r
what havent they told us	s yet???
Whats next?	
4:13 PM:	
who knows	
4:13 P	M·
We are having issues w	
4:14 PM:	in every apadic we do
	and it right
it seems like they'll neve	* *
fix one thing, break 3 ot	
4:21 P	M:
OMG!!!!	
What the hell	
4:42 PM:	
ugh	
I need a cold one after t	.hat
Gustavsson, Patrik H 4:42 P	M:
me too	
This is just ridicoulus	
4:42 PM:	
too bad I have to go coa	ach
4:42 P	
no one wants to fix anyt	
Have fun!	
4:43 PM:	
you too. later!	
	NA.
4:43 P	IVI.

later

From:	@boeing.com>
To:	Boeing Employees
Sent:	6/5/2017 11:19:13 AM Conversation with
Subject:	Conversation with
Morning just got	to Gatwick. First day in sim tomorrow
6:55	PM:
how were the flig	jhts?
wind additive	mails if you dont mind, so that i can keep up to speed with what is going on at home, in particular RTL and
Flight was good, 6:55 I	but weird business seat layout on
ii	IAX sim in MIA has the overrun and speedbrake warnings activated, or capable of being activated?
l don't know. But	ould probably choose another airline over their 787 I will fire of an email right now to find out
6:56 I I already sent on	
	6:57 PM:
Good 6:57 I	DNA-
Now friggin	might need a sim to fly the MAX, and maybe because of their own stupidity. I'm scrambling trying to unscrew this now!
]6:58 PM:
WHAT THE F%\$ But their sister a	&!!!! irline is already flying it!
6:58	
I know	webex so we can thru this with the DGCA
	Lion's fault or DGCA yet
	6:59 PM:
Let me know if y	ou need me to go down for a day while im there, not ideal but if we have to we have to
~	A guys is coming for the delivery so we can always get him there
	hey're making a training determination on Wed, so that's why I'm trying to jump on this tonight with them
Vou dofinitaly wa	j7:01 PM: Int to be in front of that one!
	included in Front of that one: en will these curve balls stop coming
7:01	PM:
its unreal man	t thru summer we'll be ok, in theory
ii we can make ii	7:02 PM:
	saying and hearing the same thing at the end of last summer!!
7:02 l	PM:
ha! good point little did we know	1
	d a VNAV and Flight Director question from to?
	7:03 PM:
Prbably Or if it is more F	he has helped me out recently
Or both	
7:04	PM:

ok, is claiming they're having level off issue	s with the split cue FD now that they've switched to it
7:04 PM:	
What??? No, I've never had an issue.	
7:06 PM:	
I'll fwd	
7:07 PM:	
ok	

From: @boeing.com>	
To: Boeing Employees Sent: 5/1/2017 3:38:16 PM	
Subject: Conversation with	
9:04 AM:	
oeprationally, what would be the big impact for a customer to move from EASA AFM rules to FAA AFM rules? any big show stoppers	
9:04 AM:	
Not that I know of	
9:04 AM:	
some autoflight rule changes for MUH the perf be a bit less conservative,	
9:05 AM:	
Yes, seems less restrictive in FAA	
9:05 AM:	
anything else?	
9:05 AM:	
The maneuver margins in the FMC is only 0.2 g instead of 0.3 g with FAA rules	
9:05 AM:	
is that in the AFM? 9:06 AM:	
I'm not familiar enough with the AFM, I'd say run it by	
9:06 AM:	
I am now, he's not really chiming in	
9:06 AM:	
Ok, If you want, I can review them. Contrast and compare	
9:09 AM:	
ok i'm going to need you to do that. I'll have send you	
data we'll chat about it at the 10am	
9:09 AM:	
Please do, I'll look at it as soon as I get it	
Also, I am working on wording for the U13 issue, we need to agree on what to add	
9:11 AM:	
we need to break down the pure operational impacts/limitations differences specifically for it look	s like
we're going to need to convince them to convert to FAA rules to simplify AFM approval by their GCAA. It's really complicated, I'll explain on the 10am call	
will get someone else the performance differences	
9:18 AM:	
Ok, sounds good	
9:21 AM:	
thx sorry. but with me traveling to MIA tomorrow for the week I just won't have the time	
9:25 AM: Hey you are taking more one for the team at the moment!!!	
9:26 AM:	
we all are	
12:05 PM:	
I forget, did you book the ecab for on the 9th?	
12:16 PM :	
12:16 PM: cool thx	

12:26 PM:
check out the pics of the pilots in that brochure sent! They look like 12 years old! JESUS!!!! They don't look
old enough to drive, or drink!
12:58 PM:
are you going to fly the sim week of the 8th afterall or no?
I think you said it needed to be June right??
1:06 PM:
its in june, still waiting to hear from
1:06 PM:
ok
when will you be doing the Gatwick cert again?
1:48 PM:
Sorry, had to take puppy for a walk. She was going crzy! Gatwick is June 19-23
I
l'Il go there straight from Singapore
1:57 PM:
welcome to puppy ownership!
H 2:00 PM:
, that's why i had stay home. I will catch up now
2:00 PM:
never a dull moment
2:22 PM:
I find it hard to believe thatclaims he's never felt the "deadband" on rotation don't you?
2:23 PM:
I really do, it is definitely something you mention in training. Almost everyone gets stuck in the deadband on the first few
rotations, you gets used to it real quick though and can easily achieve an even rate
I just hope all these courses get approved
2:24 PM:
I do too, although part of me wants to see it fail so we can say, "WE TOLD YOU SO!"
that's kinda sick of me, huh?
2:24 PM:
I will probably meet the minimum requirements though
2:26 PM:
we'll see
it's a complete S#!T course, they should have stayed with CBT
and I'm going to MIA to supposedly help brag about our "new and innovative" training course. BARF!
2:27 PM:
Yep, they bought the toys and then tried to fit some sort of training into it. Completely backasswards
It sucks selling shit!
2:28 PM: fortunately I have all the skills of a used car salesman, and I have the ability to use the indimind trick
fortunately I have all the skills of a used car salesman, and I have the ability to use the jedi mind trick
2:30 PM: Does the lest contained that Ladded make any conce?
Does the last sentance that I added make any sense?
CRZ DES provides the means of initiating step descents to a new cruise altitude during cruise.
During VNAV operation, execution initiates a descent at 1,000 feet per minute and cruise target
speed to the new altitude.
The FMC software allows a CRZ DES to the normal Descent Path capture if the normal path is
encountered during the Cruise Descent and prior to reaching the new cruise altitude.
the Descent phase will be entered from a Cruise Descent at the time the extended descent path is
captured. Note: CRZ DES will not capture an extended descent path if the CRZ altitude and descent
altitude constraint are the same
or this:
Note: CRZ DES will not capture the normal Descent Path if the CRZ altitude and descent
altitude constraint are the same.
2:32 PM:
2.32 TW.

I like the 2nd one
2:32 PM:
Do you think it's clear to pilots? The FCOM is such a mess, they are confusing CRZ DES with the new
in so many places
2:33 PM:
does it say anywhere how you actually do the CRZ DES?
2:34 PM:
L
That is the whole section right there!
2:34 PM:
it doesn't mention use of [?
what does it say about that switch? Did they cross reference them?
2:34 PM:
No, they put that in 3 other places though!!!
I'm telling you, no wonder pilots are having problems reading the FCOM, we scatter stuff around in so many places
They actually describe CRZ DES in the early descent section
when you use
2:48 PM:
egads
2:49 PM:
Luciani, and the second
MESS!!!
2:57 PM:
go ahead and bounce your proposed fcom update off in reply to his email
see if he thinks that makes sense
3:08 PM:
I just want to float it internally and clean it up for them first
3:10 PM:
ok
3:23 PM:
Let me know when you want to talk AFM
3:23 PM:
ugh, I'm leaving soon, I may have to call you on the way home, will that be ok?
3:23 PM:
Absolutely
3:24 PM:
ok thx
we're going to buy a bed first, but I'll call after that, probably like 430ish. If I haven't called by 5pm call me ok?
3:24 PM:
Will do, I can take a call at any time this pm/evening.
Get a good one though, I'm so sick of all these beds sold as the best thing ever actually ending up with big dips in them!
Cheaper beds are better for my back
3:27 PM:
we're gonna try the sleep #. Every other bed has sucked
3:28 PM:
Let me know how that works, I'm in the same boat. It messes my back up. I sometimes have to sleep in the guest bed
just for my bed
back
3:28 PM:
Manufacture in the state of the
Will do
although I won't be sleeping in it til June at the rate I'm travelling
3:29 PM:
true

From: Sent:	6/7/2013 9:13:1	@ussevm18.cs.boein PM	g.com @ (@ (ussevm18.cs.boeing.com]		
To:	@boeing.com]					
Subject:	PRG - 3/MAXFCI	PRG - 37MAXFCI-PDR_AI22 - MCAS/Speed Trim				
+						
			ification of any p l since 06-JUN-2013	rogress on this item. 21:12:47 (US Pac)		
			tem info and the n			
To view and/o	or edit the ITRACS	item, select this item	number link 37MAXFCI-Pl	DR_AI22		
	37MAXFCI-PDR_ AS/Speed Trim	1				
	ategory:		707 202 0			
	odel: nase:		737 MAX -8 COMPLETE			
	ffort: eed Date:		JUL-01-2013	00.00.00		
	CD:		001-01-2013	00.00.00		
N€	ext Phase Due	:				
	ion Responsib	ility:				
	ompany: esp 1:		Boeing			
	esp_2:					
+ when +	what	who	(by who			
6/7/13 Me	13 ANALYSIS eting Minutes			07-JUN-2013 08:29:23		
type func	tion.		-	function as a speed trim a greater certification		
and train	ing impact.		_	a 9,200,001 00101110001011		
		n to Speed Trim communicate it	n. : is an addition to	Speed Trim.		
5) Intern 6) Work w	ally continue ith AR on cer	using the acro		ariable names etc).		
			on is consistent w	ith intent that MCAS is		
continue still con	to use the MC sidering MCAS	AS nomenclature to be an addit	e internally (varia tion to the Speed T	07-JUN-2013 12:18:39 provided that we can ble names, etc) while rim function. This will ving additional work due		

to training impacts and maintenance manual expansions.

From:	Boeing Employee
То:	Boeing Employee
Sent: Subject:	7/23/2014 7:43:31 PM RE: RCAS testing of training
,	
•	it's the box we're painted into with the Level B training requirements. Remember, this is just the training required. Operators can elect to make the training more robust.
A bad excuse, but	what I'm being pressured into complying with.
737 Chief Technica Desk	
Ø BOEING	BOEING EDGE Flight Services
From: Boeing Employ Sent: Wednesday, To: Boeing Employe Subject: RE: RCAS	วินไร่ 23, 2014 7:11 AM e
Thanks. I fear that reliant on automati	skill is not very intuitive any more with the younger pilots and those who have become too on.
From: Boeing Empl Sent: Tuesday, July To: Boeing Employee Subject: RE: RCAS	7 22, 2014 8:27 PM
engine out operation changes. The path pointing the crews Level B. We need	trategy with Level B, and the ROLL/YAW ASYMETRY will most likely be seen frequently during ons as people don't have the plane in trim when coupling the autopilot and make speed/confign forward we determined in flt tech was to only have a condition statement, with the training to the FCTM guidance regarding proper trim technique. This is the path with the least risk to do sell this as very intuitive basic pilot skill. That the alert is just drawing your attention to the That's our only chance of Level B.
thanks,	

737 Chief Technical Pilot ~ Desk ~ Mobile
BOEING BOEING EDGE Flight Services
From: Boeing Employee Sent: Tuesday, July 22, 2014 1:46 PM To: Boeing Employee Subject: RE: RCAS testing of training
I would think that the NNCs should provide some guidance to the pilots. Many will need to be told to enter rudder trim or aileron input to correct the condition of which they have been informed.
From: Boeing Employee Sent: Thursday, July 17, 2014 4:11 PM To: Boeing Employee Subject: RE: RCAS testing of training
Here's the RCAS NNCs. Let me know if you need them cleaned up to look exactly as they will in the QRH.
We're a month or so away from the FCOM maneuvers guidance, if we give any. Still need to sort that out.
We need to point out that the autopilot saturation alerts means you should do trim the airplane per the FCTM guidance.
For the roll arrow, I think we just include it as systems information, it won't be part of the upset recovery just an extra tool to do it correctly.
Thanks,
737 Chief Technical Pilot ~ Desk ~ Mobile
BOEING BOEING EDGE Flight Services
From: Boeing Employee Sent: Wednesday, July 16, 2014 1:43 PM To: Boeing Employee Subject: RE: RCAS testing of training

We have set a goal of having a preliminary version of the CBT available at the end of October. We will take the checklists and the FCTM guidance materials at your convenience.
Flight Training Development
Boeing Flight Services
Seattle Campus
Phone:
SCIENTIA EST VIRTUS
From: Boeing Employee Sent: Thursday, July 10, 2014 11:22 AM To: Boeing Employee Subject: RCAS testing of training Importance: High
If I get your guys the 2 checklists for autopilot saturation (ROLL/YAW ASYMMETRY and ROLL AUTHORITY), and the FCTM guidance we expect pilots to know for use of rudder/aileron trim, and you get access to the NG CAB with that functionality, what is the shortest possible time from both of those happening that a basic version of the CBT could be produced for use in a human factors study/evaluation of the effectiveness of the training? It doesn't have to be perfect, but fairly representative of the training we expect to provide for these 2 alerts.
I'm ramping up the engineers and human factors folks to do a study to prove to the FAA that no greater than level B is needed for RCAS. We already have the data for the roll arrow, just need these 2 other pieces of RCAS.
Please let me know ASAP.
thanks,
737 Chief Technical Pilot ~ Desk ~ Mobile BOEING EDGE
Flight Services

From:	Boeing Employee	
To:	Boeing Employee	
Sent:	11/22/2015 9:32:44 PM	
Subject:	FW: !!! Important Help Needed!!!EASA RSAT/RCAS ECD dates	
	•••	
From: Boeing Employee	······································	
Sent: Tuesday, Novem		
To:	Boeing Employees	
Cc: Boeing Employees	Boeing Employees	
~	.i ant Help Needed!!!EASA RSAT/RCAS ECD dates	
Subject. NE. ::: Import	and help Needediii:LAGA NGAT/NGAG LOD dates	
J		
	to negotiate the training level determination for either RSAT or RCAS until the TIA is	
	ew it with the SACO pilots. We've got their preliminary approval of the RCAS CBT, based	
•	BT is currently being revised. Now that we know the scope of the RSAT alerts that will be	
	o finalize the RSAT CBT. As we understand it now, the RSAT functionalities to be certified	
	RW (in air and on ground), PRW, and the SPEEDBRAKE alert. If this is not correct,	
someone needs to let u	is know that.	
To be clear just becaus	se the AEG approved the RCAS CBT, that does not mean they approved the CBT as the	
only training required. I'm fairly sure they will push to have at least the ROLL AUTHORITY alert trained in a		
	g to push back very hard on this, and will likely need support at the highest levels when it	
comes time for the final		
as the min training required for RCAS. Failure to obtain Level B training for RCAS is a planet-killer for the MAX.		
The second secon	AEG to push for simulator training for some or all of RSAT. We will also be fighting	
against this as well.		
We are well prepared to	have this training level discussion with the AEG for both RSAT and RCAS.	
vve are well prepared to	Thave this training level discussion with the ALO for both NOAT and NOAS.	
If you need more inform	nation, please let me know.	
one (See on case or or an entrance or	especial of the same and an expert manual was	
Thank you,		
727 Chief Technical Dile		
737 Chief Technical Pilo	Dt	
~	BOEINGEDGE	
BOEING	Flight Services	

From: Boeing Employee Sent: Tuesday, November 17, 2015 2:02 PM
To: Boeing Employees
Cc: Boeing Employees Subject: RE: !!! Important Help Needed!!!EASA RSAT/RCAS ECD dates
How are we doing with the flight crew training requirements?
From: Boeing Employee Sent: Monday, November 16, 2015 10:58 AM
To: Boeing Employees
Cc: Boeing Employees Subject: RE: !!! Important Help Needed!!!EASA RSAT/RCAS ECD dates
Great news!
Boeing Commercial Airplane Group 737 Systems Chief Engineer Blackberry: Fax: M/S 9W-18
From: Boeing Employee Sent: Monday, November 16, 2015 9:21 AM To: Boeing Employees
Subject: FW: !!! Important Help Needed!!!EASA RSAT/RCAS ECD dates
This is great news!!!! See below!
Senior Leader - Avionics (Displays, Navigation, Inertials, RSAT, Software/AEH)
Boeing Commercial Airplanes Tel. (Desk)
Text/Cell
Email @boeing.com
FAA Authorized Representative Areas: IMA, Displays
From: Boeing Employee
Sent: Monday, November 16, 2015 2:54 AM To: Boeing Employee
Cc: Boeing Employees
Boeing Employees Subject: Re: !!! Important Help Needed!!!EASA RSAT/RCAS ECD dates
We met with EASA this morning. Based on conversations with last week and his review of the FAA IP, does not believe EASA will issue a CRI for differences to the FAA cert basis for

RSAT/RCAS . He did indicate the a 'cover' CRI would be required.

Sent from my BlackBerry 10 smartphone.
From: Boeing Employee Sent: Friday, November 13, 2015 6:43 PM
To: Boeing Employee
Cc: Boeing Employees
Subject: !!! Important Help Needed!!!EASA RSAT/RCAS ECD dates
Please let us know if you had a chance to talk to EASA team to have an ECD date for us for the meeting with them, or understanding if there will be a spate CRI for ORW and/or RCAS. We would greatly appreciate your help in this matter.
Thank You,
Avinonics Management Cell

P=====================================		
From:	Boeing Employee	
To:	Boeing Employees	
CC:	Boeing Employee	
Sent:	11/21/2014 10:30:18 AM	
Subject: Attachments:	Debriefing Questions Boeing Only.docx; Debriefing Questions.docx	
Attachments.	Debriefing Questions Boeing Only. docx, Debriefing Questions. docx	
Hi all,		
	graphics questions that I plan to start the debrief with. This is considered the minimum set, and or more details on their answers, depending on what they say.	
	shows an outline of what questions are to be asked of each condition. For the no-RCAS on showing them details of RCAS after their flight and ask about their perceptions of its design on.	
The doc marked Boeing Only has questions that we plan to ask of the no-RCAS group about their expectations for any alerting that they feel might have helped in the events. It is Boeing Only because the answers they provide might show a significant deviation from the current RCAS design, and we don't want to indicate to the FAA that our design conflicts with pilot expectations (esp since the pilot responses are naïve and our design has been vetted in a number of demos).		
Let me know of any	additional questions you think should be asked,	
Flight Deck Human Fa Boeing Commercial A (office (work		

From:	Boeing Employee
To:	Boeing Employee
Sent:	12/18/2014 12:28:37 PM
Subject:	RE: Tomorrow
	 1
	lose Level B which will be thrown squarely on my shoulders. It was yes! Who
cost Boeing tens of mil	llions of dollars! Burn him at the stake! Oh well, someone will have to pay
And if they hire	nat will drastically cripple our group, especially for the FCOM/QRH development work. I
	and it would be great to have him as our boss, but we'll be hurting to lose and
	r would SERIOUSLY suck.
Oh well, we'll get through	gh whatever challenges we face. GET 'ER DONE!
737 Chief Technical Pilo	' ot
~ Desk	
~ Mobile	
(BOEING	BOEING FDGF
DULING	Flight Services
From: Boeing Emp	
Sent: Thursday, Decemb	per 18, 2014 12:24 PM
To: Boeing Employee Subject: Re: Tomorrow	<u>.</u> !
Subject: No. Tomorrow	
Cool, the bribes we	paid to keep you in the group worked!
After the MAX is don	e you'll be able to write your own ticket.
Sent from my BlackE	Berry 10 smartphone.
From: Boeing Employee	
Sent: Thursday, Decem	ber 18, 2014 12:03 PM
To: Boeing Employee Subject: RE: Tomorrow	
Subject. RL. Tomorrow	
Sounds good, cya tom	orrow.
John Marie San Company	
FYI, I'm not getting the	2 nd interview, so you're stuck with me
	 -
707 Object Teachers at D'U	
737 Chief Technical Pilo)T
~ Desk ~ Mobile	
~ -	BOEINGEDGE
BOEING	Flight Services

Sent: Thursday, December 18, 2014 10:52 AM To: Boeing Employee Subject: Tomorrow
Printed more SEA 16L charts. Taking a few vacation hours to bang out some Christmas shopping See you in the morning.
737 MAX Procedures Manager Flight Technical & Safety Desk Mobile BOEING EDGE Flight Services

Boeing Employee

From:

From:	Boeing Employee	
То:	Boeing Employee	
Sent: Subject:	5/1/2015 7:08:53 AM RE: Concerns with Training Development proposal for MAX	
Subject.	TC. Concerns with Training Development proposal for MAX	
]		
<u>.</u>		
acknowledged there is s the flat panel trainer are	discussion with TD and the larger team, I am fine with the path ome risk to the new style of training, but it shouldn't be a show alleviated, only by the fact that they must develop some sort of pidable, it is a risk we must live with for level B differences con	v stopper. My concerns with of device for the full transition
Thank you,		
737 Chief Technical Pilo	-	
∼ Desk ∼ Mobile		
	3	
BOEING	BOEINGEDGE	
	Flight Services	
From: Boeing Employee Sent: Tuesday, April 21, To: Boeing Employee	2015 11:00 AM	
Subject: Re: Concerns w	ith Training Development proposal for MAX	
Thanks,		
Please let me know w	hat you think after you visit with	
Best,		
Chief Pilot - Boeing F	light Sonvices	
Mobile I	iight Services	
Executive Assistant		
From: Boeing Employee Sent: Tuesday, April 21,	2015 11:50 AM	
To: Boeing Employee Subject: RE: Concerns w	ith Training Development proposal for MAX	
and I had a good o	chat. I think we'll just sit and listen to the latest pitch tomorrow	from There's no way
	me sort of flat panel trainer for the full transition course, we'll i	

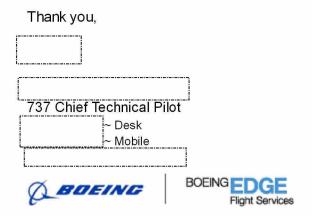
argument for them to do so, but that doesn't mean they won't try.
Thank you,
737 Chief Technical Pilot
~ Mobile
BOEING BOEING EDGE Flight Services
From: Boeing Employee
Sent: Friday, April 17, 2015 6:07 PM To: Boeing Employee Subject: RE: Concerns with Training Development proposal for MAX
As you would expect, paints this in a very positive light, so he didn't really do much to highlight your concerns.
What I would like would be for you to get together with and probably and/or o make sure that all of us in Flight are speaking with a common voice. Please include if you can.
Once you've got a common point of view from that group for Flight, feel free to run with that message.
Thanks,
From: Boeing Employee Sent: Friday, April 17, 2015 1:56 PM To: Boeing Employee Subject: Concerns with Training Development proposal for MAX
wanted me to coordinate with you and make sure you're ok with me highlighting my concerns with regards to Training Development's desired plan for Code 1 customer MAX training. I believe has already shared my concerns with you, but I want to make sure you are ok with me bringing them up at next Wednesday's meeting to discuss this topic.
My concerns are two-fold.

the AEG potentially trying to force us to use it as part of the NG to MAX differences course. There's no rational

First, I have concerns with moving away from a predominantly CBT-based training course, which has been the Boeing standard for many years, back to an Instructor-led course. While I agree with this in principle, the fact is, we're dealing with new regulators in both the AEG and the Miami TCPM offices, so attempting to certify the MAX course for initial type certification carries with it unnecessary risk. The AEG in particular has been very difficult to deal with thus far as you know.

Second, I am concerned with the development of these DTTs for the training. I know is selling these as only
required for the Code 1 full transition course, but I fear the old Field of Dreams adage of, "If you build it, they will
come". In other words, I fear the AEG will find out we have these great interactive desk top trainers and try and
mandate them for use in the NG to MAX differences course, which we have a contractual obligation to to
ensure the training does not exceed greater than 2 days of Level B (CBT) differences training. While this argument
has no logical basis from the AEG's perspective, thus far in our negotiations we have seen many instances where
logic and reason do not prevail with the AEG.

I intend on raising this with the group at next Wednesday's meeting, unless you would like me to stay silent on the topic. I realize the training development is outside my swim lane, but it certainly can impact my negotiations with the regulators.



From:	Boeing Emplo	vees
To: Sent: Subject:	8/18/2016 8:11:57 AM RE: MAX Differences Training approved at Leve	<u></u>
Subject.	INE. MAN Differences Training approved at Leve	51 D.IIIII
ļ <u>-</u>		
<u> </u>		
being developed in AEG to re-write it,	be less than 4 hours. We don't define times in the near future. There is a new FSB format, an to include incorporation of the MAX into it. The offer expect the comment period and everything to less than the comment period and everything the less than the less t	d we'll be working collaboratively with the draft won't be ready until after type cert in the
OSD report. The (ed the FAA/TCCA's findings, so the EASA require CAAC has already said they'll accept the FAA's fi the world to jedi-mind trick them into accepting th	ndings. We'll probably have to go to other
737 Chief Technical		
From: Boeing E	mployee ugust 18, 2016 7:54 AM	
То:	@boeing.com>; [@boeing.com>; (Differences Training approved at Level B!!!!!	@boeing.com>
	onetheless, it is 1-training-day (union and non-uni stage (1-training day)? Is the FSB report in the p	
Also, what are the we need to know?	details on the EASA report? Same/more/less??	Are there any issues with JCAB or TCAC
	be in touch soon with more understanding of deta oduct marketing decks, and is at the heart of	
Again, NICE JOB!!	1	
From: Boeing Em	ployee August 17, 2016 1:43 PM	
To:	@boeing.com>;	@boeing.com>
Cc:	@boeing.com>;	@boeing.com>;
	@boeing.com>; @boeing.com>;	@boeing.com>; @boeing.com>;
i		2 \

	<u>being.com</u> > erences Training approved at Level B	!!!!!
hours (call it less than 4		inor tweaks to it, but not enough to bust through 3 special currency issues or formal checks of any sort evel B.
737 Chief Technical Pilot		
From: Boeing Emplo Sent: Tuesday, August		
To:	@boeing.com>;	@boeing.com>
Cc:	@boeing.com>;	boeing.com>;
	@boeing.com>;	@boeing.com>;
	@boeing.com>;	@boeing.com>;
<u>@b</u> c	oeing.com>	
Subject: RE: MAX Diffe	erences Training approved at Level B	!!!!!
Hey,		
And, just to confirm, the	ere are absolutely no formal checks?	of CBT endorsed and in stone by FAA (AEG)? And, no functional currency issues between NG still be able to jump into a MAX? LOVE IT!!
Yep, those are the deta	ils us product marketing twits need to	know! LOL.
CONGRATS to you and your MAX team,		
THEN, we got really DF	RUNK when the JAA (now EASA) app	rovals came in!!
GOOD on you all!!		
CONGRATS!!		
and the BCA Pro	duct Marketing Team	
From: Boeing Employee	7	
Sent: Tuesday, August		
То:	@boeing.com>;	@boeing.com>;
	@boeing.com>;	@boeing.com>;
	@boeing.com>;	@boeing.com>;
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@boe	ing.com>;	@boeing.com>;
@boeing		@boeing.com>;
@boeing.c		100,000111
@b		@boeing.com>;
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@boeing.com>	<u> </u>
Cc: @boe	ing.com>; @boeing.com>;
@boeing.com>;	@boeing.com>;
@boeing.com>;	@boeing.com>;
@boeing.com	1>; @boeing.com>;
@boeing	
@boeing.com>	
Subject: MAX Differences Training appro Importance : High All,	ved at Level Billi
establishing the 737MAX as the same typ (Computer Based Training, CBT) differend This is provisional approval, pending final changes to the airplane. The FAA will be	Part 25 Type Certification, and assuming no significant systems sending us a Provisional Approval letter within the next 2 weeks,
documenting the Joint Flight Operations E and EASA are now considered to have ac	Evaluation Board acceptance of this finding. FAA, Transport Canadaccepted this Level B determination.
	ess and collaborative efforts across many business units. Flight Development, Flight Deck Crew Ops, All MAX engineering teams, is Engineering Test Pilot team all should be commended for
CAS Communications and 737 Program (receipt of the FAA's provisional approval le	Communications are jointly crafting a BNN article to be released upo etter.
Thank you again for all your collective sup	oport.
737 Chief Technical Pilot	
BOEING	

2	
From: To:	Boeing Employees
Sent:	6/5/2017 8:02:55 PM
Subject:	RE: 737 MAX ATB/RTL FOTB
Welcome to my world,	the never-ending nightmare
737 Chief Technical Pilot	
J	
()_BOEING	
From: Boeing Emplo Sent: Monday, June 05 To:	, 2017 8:02 PM @boeing.com>
Subject: RE: 737 MAX	ATB/RTL FOTB
I am sorry to hear that.	
From: Boeing Employee Sent: Monday, June 05	
Subject: RE: 737 MAX	ATB/RTL FOTB
I'm putting out fires with ARGGGGGGGGGGGG	the who suddenly think they need simulator training to fly the MAX! GGGGGGGGGGGGGHHHHH!!!!!!!!!!!!11
737 Chief Technical Pilot	
BOEING	
From: Boeing Employ Sent: Monday, June 05	, 2017 7:59 PM
To: Subject: RE: 737 MAX	@boeing.com>
I COULD ASK YOU TH	HE SAME THING!
From: Sent: Monday, June 05	

То:	@boeing.com>	
Subject: RE: 737 MAX ATB/RTL FO	DTB	
Why are you still working at 8pm????	STOP!!!	
737 Chief Technical Pilot		
() BOEING		
From: Boeing Employee		
Sent: Monday, June 05, 2017 7:57 Pl	M	
То:	@boeing.com>;	@boeing.com>
	oeing.com>;	@boeing.com>
Subject: RE: 737 MAX ATB/RTL FO	OTB	
Thank you !		
From: Boeing Employee		
Sent: Monday, June 05, 2017 7:56 Pl		
To:	@boeing.com>;	
@boeing.com> Cc: @b	oeing.com>;	@boeing.com>
Subject: RE: 737 MAX ATB/RTL FO		<u></u>
The 230pm time tomorrow you sent v	via calendar invite works for me. I accepted.	
737 Chief Technical Pilot		
() BOEING		
BUEINE		
From: Boeing Employee	N.A.	
Sent: Monday, June 05, 2017 5:13 Pl To: Ob Cc: Ob Subject: RE: 737 MAX ATR/RTL FO	@boeing.com>;	@boeing.com>
Cc: @b	oeing.com>;	@boeing.com>
Subject: RE: 737 MAX ATB/RTL FO	тв	
Lielle []		
Hello,		
I am looking at scheduling a meeting betwhere reviewed the bulletin, and have que	ween you, some Aero staff and some stions, that are best discussed in a meeting situation	Floe Staff as we speak. We n.
I have a hard time finding an opening in to this discussion I would like to schedule	s schedule, maybe wants to delegate? Se around s (or delegate) availability	ince Flight Technical is essential
Hello ,		

Thank you,			
From: Boeing Employee			
Sent: Monday, June 05, 2017 5:01 PM			
То:	@boeing.com>		
Subject: RE: 737 MAX ATB/RTL FOT	В		
			0.7
How is your FOTB review coming? Do y	ou have an estimate as	to when you will have a re	sponse? There are
several people on the distribution list fr more sense for you to coordinate with			
want to do their own mark-up versions		official reachies of do y	you millik me will all
want to do mon over many op versions	· •		
From: Boeing Employee			
Sent: Friday, June 02, 2017 3:43 PM			
To:	boeing.com>;	<u>a</u>	boeing.com>;
 - 	@boeing.com>;		@boeing.com>;
	@boeing.com>	<u> </u>	
Cc:	<u>@boeing</u>		
<u>@boeing.com</u> >;		@boeing.com>;	
@boeing.com>;		@boeing.com>	
@boeing.com>; '			@boeing.com>;
<u> @boeing.com</u> >; Subject: RE: 737 MAX ATB/RTL FOT	D	@boeing.com>	,
Subject. RE. 737 MAX ATB/RTE FOT			
i			
I have reviewed and made comment	ts in the attached copy	of the draft, some of which	should address the
CS-AWO 2.5% gradient implication tha	t and I realized ea	arlier today. We still have son	ne other people
needing to review it, so this isn't necess			
changes and send a new draft out for			•
FOTB and are trying to focus on the de form.	talls at this point. And th	ey are a bit hard to see in tr	nis current markup
IOITI.			
			
From: Boeing Employee			
Sent: Friday, June 02, 2017 3:33 PM			
To:	@boeing.com>;		@boeing.com>;
(@boeing.com>;		@boeing.com>;
	@boeing.com>		
Cc:	@boeing		
@boeing.com>;		@boeing.com>;	
@boeing.com>;	en e	@boeing.com>	
@boeing.com>;		A DE CATALON AND A CATALON AND AND AND AND AND AND AND AND AND AN	@boeing.com>;
@boeing.com>;		@boeing.com>	>
Subject: RE: 737 MAX ATB/RTL FOT	R		

So Should I take that whole part out, or are you saying you're ok with it as written?

737 Chief Technical Pilot	
1	
()_BOEING	
From: Boeing Employee	
Sent: Friday, June 02, 2017 12:34 PM	
To: <u>@boeing.com</u> >;	
@boeing.c	
<u>@boein</u>	
Cc:	@boeing.com>;
<u>@boeing.com</u> >; <u>@boeing.com</u> >;	@boeing.com>; @boeing.com>;
description (a) boeing.com>;	; @boeing.com>;
@boeing.com>;	@boeing.com>
Subject: RE: 737 MAX ATB/RTL FOTB	
	
Another note from my perspective after a recent char	t with[]
William I and a contribution of the contributi	and and the second of the seco
	checking with our go-around check on the enroute landing
	ras implemented to satisfy the EU-OPS (once again renamed
	uirement that operators ensure that airplanes can meet a ue if published by the airport authorities. This option sits on
	nding climb limits and, as you can imagine, is more limiting.
1 2 11	at have adopted EU-OPS requirements, but note that we
	check, as it's the only way then can check go-around
performance at those airports that are more challengi	
personners at mose unposts that are more summing	
For those operators that elect not to implement the go	o-around check, they would unaffected by the above
go-around issue, but would still have their normal app	
From: Boeing Employee	
Sent: Friday, June 02, 2017 6:49 AM	
To: <u>@boeing.com</u> >;	@boeing.com>;
l@boeing.c	
<u>@boein</u> Cc:	@boeing.com>;
@boeing.com>;	@boeing.com>
Subject: RE: 737 MAX ATB/RTL FOTB	
TT:	
Hi L	

I'm okay with it, including your recommendation to delete the sentence "None of these additional steps are required when using OPT."

From: Boeing Employee Sent: Thursday, June 01, 2017 4:09 PM
To: r@boeing.com>;
@boeing.com>;
Cc: <u>@boeing.com</u> >;
<u>@boeing.com</u> >;
<pre>@boeing.com>;</pre>
<u>@boeing.com</u> >; <u>@boeing.com</u> >;
@boeing.com>; @boeing.com>;
Subject: RE: 737 MAX ATB/RTL FOTB
Ok, latest and greatest iteration of the RTL FOTB, based on what I understand have all agreed to, based on Flight Technical's recommendations. It assumes that we elect to hold off on publishing this (at least with EASA MAX customers) until we have both the 15/1 and 30/5 SPs approved with EASA. If we decide we need to get it to EASA customers sooner, we can revisit and edit this as needed (i.e. remove reference to the 30/5 procedure until we get that approved, or maybe send out 2 separate FOTBs, one for EASA, one for everyone else).
I have many comments/questions that need reviewed/answered, and please do review the deletions and additions and let me know what if any you disagree with. Please everyone in the TO and CC line do this review.
I'll letdetermine when he wants to have this review done by. Obviously the sooner the better.
Thanks all.
737 Chief Technical Pilot
(A POEINC
DEING
From: Boeing Employee Sent: Thursday, June 01, 2017 11:05 AM
To: <u>@boeing.com</u> >; <u>@boeing.com</u> >;
@boeing.com>;
<u>@boeing.com</u> >
Cc: <u>@boeing.com</u> >;
<pre>@boeing.com>;</pre> <pre></pre>
@boeing.com>; @boeing.com>;
@boeing.com>; @boeing.com>;
<u>@boeing.com</u> > Subject: 737 MAX ATB/RTL FOTB
Attached are meeting minutes from yesterday's ATB/RTL discussion between Aero and Flight Technical. I have already talked toandper the action items; I will send a follow-on note with more info. Airplane Performance Certification

To:	From:	Boeing Employee
Maybe can spearhead that effort on the 787-10!!!! Go Gol 737 Chief Technical Pilot From: @faa.gov [mailto] @faa.gov] Sent: Friday, February 09, 2018 852 AM To: @boeing.com>; @faa.gov Subject: RE: Template question Hmm, I don't know if I have the skills to jedi mind trick 280 until we have a lull in revision timing. I think until the MAX evaluations are complete, we don't have a dog in that fight due to the precedence we have set already. ### Anation Safety Inspector, Operations Specialist ### SPSP FOEB Chair B-737 **Neatile Aircraft Evaluation Group We value your feedback and seek to improve the services we provide. Please take a few moments to visit the website shown below to let us know how we did. Select Large Technology of the Services of the pull-down menu before writing your comments. Think you, https://www.faa.gov/about/office_org/headquarters_offices/avs/stakeholder_feedback/afx/afs100/ We will be moving to a new building on Feb. 26th. As of Feb. 26th please use the following information to contact me: Prom: @boeing.com		@faa.gov'; [@faa.gov
Maybe can spearhead that effort on the 787-10!!!! Go Gol 737 Chief Technical Pilot From: @faa.gov [mailto @faa.gov] Sent: Friday, February 09, 2018 8:52 AM To: @boeing.com>; @faa.gov Subject: RE: Template question Hmm, I don't know if I have the skills to jedi mind trick 280 until we have a lull in revision timing. I think until the MAX evaluations are complete, we don't have a dog in that fight due to the precedence we have set already. Anation Sufety Inspector, Operations Specialist FSB-FOEB Chair B-737 Seattle Alercoft Piyalisation Group We value your feedback and seek to improve the services we provide. Please take a few moments to visit the website shown below to let us know how we did. Seattle Alercoft Piyalisation Group We value your feedback and seek to improve the services we provide. Please take a few moments. Thank you https://www.faa.gov/about/office_org/headquarters_offices/avs/stakeholder_feedback/afs/afs-100/ We will be moving to a new building on Feb. 26th. As of Feb. 26th please use the following information to contact me: From: @boeing.com		
From:	<u>-</u>	
Sent: Friday, February 09, 2018 8:52 AM To:		
To:	From: @fa	aa.gov [mailto] @faa.gov]
timing. I think until the MAX evaluations are complete, we don't have a dog in that fight due to the precedence we have set already. Aviation Safety Inspector, Operations Specialist FSB FOEB Chair B-737 Seattle Aircraft Evaluation Group We value your feedback and seek to improve the services we provide. Please take a few moments to visit the website shown below to let us know how we did. Select Large Transport Aircraft Seattle AEG from the pull-down menu before writing your comments. Thank you. https://www.faa.gov/about/office_org/headquarters_offices/avs/stakeholder_feedback/afx/afs100/ We will be moving to a new building on Feb. 26th. As of Feb. 26th please use the following information to contact me:	Sent: Friday, February To:	09, 2018 8:52 AM @boeing.com>;
We value your feedback and seek to improve the services we provide. Please take a few moments to visit the website shown below to let us know how we did. Select Large Transport Aircraft Seattle AEG from the pull-down menu before writing your comments. Thank you. https://www.faa.gov/about/office_org/headquarters_offices/avs/stakeholder_feedback/afs/100/ We will be moving to a new building on Feb. 26th. As of Feb. 26th please use the following information to contact me:	timing. I think unt	til the MAX evaluations are complete, we don't have a dog in that fight
us know how we did. Select Large Transport Aircraft Seattle AEG from the pull-down menu before writing your comments. Thank you. https://www.faa.gov/about/office_org/headquarters_offices/avs/stakeholder_feedback/afx/afs100/ We will be moving to a new building on Feb. 26th. As of Feb. 26th please use the following information to contact me:	FSB/FOEB Chair B-737	•
me: From:	us know how we did. Select Large Transport Airc	raft Seattle AEG from the pull-down menu before writing your comments. Thank you.
Sent: Friday, February 09, 2018 8:48 AM To: @faa.gov>		new building on Feb. 26th. As of Feb. 26th please use the following information to contact
Sent: Friday, February 09, 2018 8:48 AM To: @faa.gov>		
Sent: Friday, February 09, 2018 8:48 AM To: @faa.gov>	From:	@boeing.com]
	Sent: Friday, February	09, 2018 8:48 AM
Subject. R⊏. Template question	To: Subject: RE: Template	

I'm all for pulling them out altogether if you guys can jedi mind trick 280 into doing what they let Brand A get away

with (i.e. not publishing them)
737 Chief Technical Pilot
From: @faa.gov [mailto: @faa.gov] Sent: Friday, February 09, 2018 8:46 AM To: @faa.gov Cc: @boeing.com> Subject: RE: Template question
to expand on the conversation of DT'sthere has been a recent push back from OEM's regarding the inclusion of DT table all together. Some OEM's are saying they do not want any DT's included because they are proprietary. 280 let one FSB report post without any DT's and now the negotiation is open for discussion.
Aviation Safety Inspector, Operations Specialist FSB/FOEB Chair B-737 Seattle Aircraft Evaluation Group
We value your feedback and seek to improve the services we provide. Please take a few moments to visit the website shown below to let us know how we did. Select Large Transport Aircraft Seattle AEG from the pull-down menu before writing your comments. Thank you. https://www.faa.gov/about/office_org/headquarters_offices/avs/stakeholder_feedback/afx/afs100/
We will be moving to a new building on Feb. 26th. As of Feb. 26th please use the following information to contact me:
From: FAA Employee (FAA) Sent: Friday, February 09, 2018 8:30 AM To: @faa.gov> Cc: @boeing.com> Subject: RE: Template question
Funny you ask. I have not submitted a -10 787 FSB report yet. I will not do that until they publish the rewrite one first. I do not want to muddy the waters what we are "negotiating" about. I am keeping a record of the many hours spent dealing with a simple template revision. When I submit the -10 report it will not have a new DT. I will hold tight to that until told otherwise.

Aviation Safety Inspector, Operations Specialist
FSB/FOEB Chair B-777/787 Souttle Aircraft Fredrich Court
Seattle Aircraft Evaluation Group
We value your feedback and seek to improve the services we provide. Please take a few moments to visit the website shown below to let us know how we did. Select Large Transport Aircraft Seattle AEG from the pull-down menu before writing your comments. Thank you. https://www.faa.gov/about/office org/headquarters offices/avs/stakeholder feedback/afx/afs100/
From: FAA Employee (FAA)
Sent: Thursday, February 08, 2018 3:07 PM
Cc: @taa.gov>
Subject: FW: Template question
Canjour IV. Tompiato quotion
what say you?
Aviation Safety Inspector, Operations Specialist
FSB/FOEB Chair B-737
Seattle Aircraft Evaluation Group
We value your feedback and seek to improve the services we provide. Please take a few moments to visit the website shown below to let
us know how we did. Select Large Transport Aircraft Seattle AEG from the pull-down menu before writing your comments. Thank you.
https://www.faa.gov/about/office_org/headquarters_offices/avs/stakeholder_feedback/afx/afs100/
TREPS.//WWW.Tadgov/abod/office org/hoddqdartoro_officeoratorodart_reseabasival/vare-rese
We will be moving to a new building on Feb. 26th. As of Feb. 26th please use the following information to contact
me:
From: @boeing.com]
From: @boeing.com Sent: Thursday, February 08, 2018 1:38 PM To: @faa.gov>
To: @faa.gov>
To: <u>@faa.gov</u> > Subject: Template question
Subject. Template question
Hi
· · · <u>· · · · · · · · · · · · · · · · </u>
Can you ask if 280 asked him to update the DT for the 787-10 from the 777, to itemize each
individual change and its training level, like made you do in the MAX? It's curious that she allowed it to go to
public comment with something that resembled this as I understand it? Attached.
Thanks
737 Chief Technical Pilot



From:	Boeing Employee
То:	Boeing Employees
Sent:	4/24/2018 8:24:12 AM
Subject:	RE: BBJ 8 flight test update
give them the pro we propose is ac	hook for making the training level determination for each new sub-model. Usually they require us to oposed differences training, then go fly the airplane to prove to themselves the minimum training occeptable IAW AC 120-53B. I was able to jedi mind trick them that there is enough commonality the -800 BBJ, that they could just do the -8 BBJ by analysis. Same for EASA and TCCA. It's all
737 Chief Technica	al Pilot
BOEI	NG
L	g Employee
	April 24, 2018 8:20 AM
To:	@boeing.com>;
Subject: RE: BE	@boeing.com> BJ 8 flight test update
It was busy, no d	oubt. What did AEG want to flight test??
From: Boeing	
5	April 24, 2018 8:18 AM
To:	@boeing.com>;
t Subject: RE: BE	<u>@boeing.com</u> > BJ 8 flight test update
	jammed on that bird! Nice job! I convinced the AEG to do the Operational/Training approval by ith the -7 and -8200. So there shouldn't be an AEG flight test need on your bird.
Thanks for the up	odate.
737 Chief Technica	al Dilot
737 Ciller recilling	
() BOEI	NG

From: Boeing Employee
Sent: Tuesday, April 24, 2018 8:15 AM

То:	@boeing.com>;
<pre>@boeing.com> Subject: RE: BBJ 8 flight test update</pre>	
Hi []	
1C001, first BBJ MAX 8, completed all B of for aux tank STC and we will flight test in J Completed the following in flight test here C5.04.AAJ – FMCS Polar Region Demo C5.15.ABA – Airstair Flight Deck Indicat C5.08.AAE – ISFD with ANAV Demo C5.15.AAZ – Advisory Ice Detection Sys	ion
From: Boeing Employee Sent: Monday, April 23, 2018 3:49 PM To:	@boeing.com>; e -8 BBJ flight test lately. Did you guys have first flight? Program on finish for it?
Thanks,	
737 Chief Technical Pilot	
BOEING	

From:	Boeing Employee
To: CC: Sent:	Boeing Employees 6/12/2015 4:42:02 PM
Subject:	RE: Slide For RCAS Training Wording
there isn't a difference b	e training is the important thing, and that it is on at least one of their NGs, this establishes between what they're trained for on the NG and the MAX, regardless of how many NGs w it sounds hokie, but that's the game we have to play with the regulators.
737 Chief Technical Pilo	t.
Ø BOEING	BOEING EDGE Flight Services
From: Boeing Employee Sent: Friday, June 12, 20	015 4:38 PM
To: Boeing Emp Subject: RE: Slide For RC	
Hi	
I am a bit slow.	
So CBT is planned for i	n 2016 for NG pilots taking 737 MAX in 2017 to eliminate differences training, correct?
Why only 1 NG is requir RCAS?	red for RCAS active and not an entire in-service NG fleet before taking their 1st MAX with
Regards,	
Business Development Modification Services	
Boeing Commercial Airpla	ne
www.boeing.com\modser	i v <mark>ices</mark>

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From: Boeing Employee

Sent: Friday, June 12, 2015 3:43 PM

To: Boeing Employees Cc: Subject: RE: Slide For RCAS Training Wording
The point of that bullet is that we need to have retrofit available, and preferably free, to get our customers to take the option as soon as possible. Realize the only real time constrained NG operators are those with 2017 MAX deliveries, as they'll need all of 2016 to get their pilots trained on RCAS prior to turning the system on, on at least one of their NGs, in early 2017 ahead of their first MAX delivery. So whether they take it in production or retrofit

they can't turn it on until their pilots are all trained.

737 Chief Technical Pilot BOEING

From: Boeing Employee

Sent: Friday, June 12, 2015 3:39 PM **Boeing Employees**

Subject: RE: Slide For RCAS Training Wording

Wording looks good.

However, it does bring up scheduling concerns with the statement that all MAX/NG customers need to be trained to avoid differences and some customers will not be getting an NG delivery after RCAS certification.

I do not have any follow on slides to address any schedule impact questions for retrofit that might be posed.

Is there a schedule challenge for retrofit?

Business Development Modification Services Boeing Commercial Airplane

www.boeing.com\modservices

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From: Boeing Employee

Sent: Friday, June 12, 2015 3:25 PM

To: **Boeing Employees**

Subject: RE: Slide For RCAS Training Wording

How's this

737 Chief Technical Pilot
POEING EID OF
BOEING BOEING Flight Services
From: Boeing Employee Sent: Friday, June 12, 2015 10:48 AM To: Boeing Employee Subject: Slide For RCAS Training Wording
Hi
Attached is the slide for the subject wording.
Regards,
Business Development
Modification Services
Boeing Commercial Airplane

www.boeing.com\modservices

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From:	Boeing Employee
To: CC:	Boeing Employees
Sent:	3/28/2017 9:00:58 AM
Subject:	RE: Flight Transition costs
transition from NG to N to make that a requirem particular experience levadditional training shoul who's already flown it o get 100 hours on the NG flying the MAX with the that the MAX is so difference of the NAX is so difference.	ortance of holding firm that there will not be any type of simulator training required to MAX. Boeing will not allow that to happen. We'll go face to face with any regulator who tries nent. If a particular customer wants to add additional training due to concerns with their wel of their pilot group, then that is an internal issue to that airline. But in actuality that lid be limited to perhaps requiring the first officers first flight on the MAX to be with a captain since, or maybe like what
737 Chief Technical Pilot	
From: Boeing Employe Sent: Friday, March 24 To:	
Cc:	Boeing Employees
Subject: RE: Flight Tra	insition costs
them on board with the	roker a meeting between our Flight Tech group (and co) and TTCAA, to get guidance from the FAA (ie. no Check needed). and most countries defer to what the FAA does (except for the National Authorities that are
Thanks,	
From: Boeing Employe Sent: Friday, March 24	
To: Cc:	Boeing Employees
Subject: RE: Flight Tra	insition costs

Airbus is throwing money at the flip, so might a good strategy be to hold firm on the logic of the lower end scenario? Thoughts appreciated From: Boeing Employee Sent: Friday, March 24, 2017 2:34 PM To: **Boeing Employees** Cc: Subject: RE: Flight Transition costs Thank Your files really clear up my questions. J It's probably a good idea to provide a cost range, as we do not know how the regulatory discussions will turn out. On the low end: ___crew sets training at home with CBT (no Check required). On the medium end: crew sets training at MIA with CBT (no Check required). On the high end: crews training on CBT for one day in MIA. Then one day in the FFS (4 hours) for a "proficiency check" in the device: This is a "worst case" as Level B training doesn't require a "check ride" but regulators can be quite conservative. can you coordinate with to see how many licenses of NG-MAX differences CBT will receive? Can they take one CD-R and load it to 20 computers? Thanks, From: Boeing Employee Sent: Friday, March 24, 2017 2:17 PM To: **Boeing Employees** Cc: Subject: RE: Flight Transition costs Hi Hope my math was correct, but the assumption is that ____crews = ____persons and did a deeper dive with them back in September of 2016 (see trip report attached, WORD document). This was when the issue of TT CAA Sim session first came up. I have re-attached the proposed PDF file again. From: Boeing Employee Sent: Friday, March 24, 2017 2:10 PM To: **Boeing Employees** Cc:

The only risk is that they will ask us to provide financial support to cover the worse case scenario... As you know,

Boeing Employees
Subject: FW: Flight Transition costs
Hello
Here are my questions/clarification we need from 1)
Thanks,
From: Boeing Employee Sent: Friday, March 24, 2017 1:55 PM
Boeing Employees
Subject: RE: Flight Transition costs
Adding just in case can't get to it while on travel.
Your thoughts?
From: Boeing Employee Sent: Friday, March 24, 2017 1:51 PM
Boeing Employees
Subject: Flight Transition costs
Our customer provided us with the EXCEL sheet below, with the simple ask of providing the data highlighted in yellow. They are asking Airbus to do the same.

Transition Costs		
Flight Crew	Cost	Assumptions
Initial Training		
Sim Session		crews
Hotel + Perdiem		2 days duration
Total		Hotel: \$150 per night
		Per Diem: \$50 per day

My concern is the 2 day + Sim Session request shown above.

Since the transition costs should be based around the FAA approved training (which is Course C, 4 hour CBT-only training, or 1 day), my thought was to provide the attached PDF file (Flight Transition Concept), as part of our response.

Please review and let me know if you agree or see any concerns.

Inanks
Sales Director, Africa & Caribbean Boeing Commercial Airplanes

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 ${
m P}$ Please consider the environment before printing this email

From:	Boeing Employee
To: Sent: Subject:	Boeing Employees 6/7/2017 3:47:26 PM RE: MAX LEVEL B DIFFERNCES SOLUTION
Haha, I'll send you to r do to sway an operator	negotiate piece in the Middle East next. Goes to show what a little bit a accurate info can in the right direction
L	7, 2017 10:01:41 AM Ig Employees VEL B DIFFERNCES SOLUTION
Looks like my jedi mind	trick worked again!
These are not the droid	s you're looking for
737 Chief Technical Pilot	
From: Sent: Wednesday, June To:	@boeing.com>
Cc:[Subject: Re: MAX LEV	/EL B DIFFERNCES SOLUTION
Dear	
source for transition tra Those presentations yo Regarding CAT II/ CAT training material ?	sentations and I accept and agree the training requirement for Boeing Max as CBT is ining from B737800 to Boeing Max. bu send me was very helpfull. III and ETOP B 737 training materials can i have it for free or any sugestion to have those have further question, we will keep in touch.
Thank you	
Best regards	

On Jun 7, 2017, at 11:23 AM, wrote:
Please see email I sent to
Thank you,
737 Chief Technical Pilot
From: Boeing Employee Sent: Monday, June 05, 2017 10:59 PM
To: <u>@boeing.com</u> >
Cc: Subject: RE: MAX LEVEL B DIFFERNCES SOLUTION
Thank you for the call. I have attached the technical and operational differences presentations here for your team. Please keep in mind that the supplementary and non-normal procedure differences are considered Level A, or Handout differences only, as they are read-and-do procedural differences. I would be happy to present these briefings to your team if you would like, or you can review them and if you have any questions please do not hesitate to ask.
Rather than require a simulator event, you may want to consider what other airlines have thought about, such as requiring a minimum hours requirement on the 737NG before doing the MAX differences training, or perhaps requiring the first flight on the MAX be with another pilot who has already flown it. I believe, based on other operator inputs, that you will find any of these solutions to be acceptable. A simulator training requirement would be quite burdensome to your operation.
I look forward to working with your team as you prepare to bring the 737 MAX into your operation.
Regards,

737 Chief Technical Pilot
Q_BOEING
From: Sent: Monday, June 05, 2017 9:33 PM To: [@boeing.com>; @boeing.com> Cc:
Dear
Thank you for the explenation. I will discuss further with my team.
Regards
Deputy Training B 737
From:
There is absolutely no reason to require your pilots to require a MAX simulator to begin flying the MAX. Once the engines are started, there is only one difference between NG and MAX procedurally, and that is that there is no OFF position of the gear handle. Boeing does not understand what is to be gained by a 3 hour simulator session, when the procedures are essentially the same.
Perhaps we should discuss at your earliest opportunity. The FAA, EASA, Transport Canada, China, Malaysia, and Argentinia authorities have all accepted the CBT requirement as the only training needed to begin flying the MAX. I'd be happy to share the operational differences presentation with you, to help you understand that a MAX simulator is both impractical and unnecessary for your pilots.
Please let me know when would be the best time to have a webex discussion.
Thank you
737 Chief Technical Pilot



From: Sent: Monday, June 05, 2017 8:42 PM
To: <u>@boeing.com</u> >; <u>@boeing.com</u> >
Cc: Subject: RE: MAX LEVEL B DIFFERNCES SOLUTION
I'm still on going with the team. The syllabus still on progress. On my side i decide to gave the transition pilot with 1 sim familirization. And also gave them 24 hours ground class room including CBT that Boeing gave us and flight technique compile with company guidance procedure.
Actually i have question regarding ETOP for Boeing 737 MAX
as a Technical Pilot B 737 at will intouch with you
I will give you a call after I discuss with my team on syllaby.
Best regards
Deputy Training B 737
Deputy Training B 737
From:
I would like to discuss what if any requirements beyond the Level B CBT the DGCA has required of you, or if your airline has determined any additional training is required. Please call me today on my cell phone, at your earliest convenience. Do not worry about what time it is here for me.
My cell is
Thank you,
737 Chief Technical Pilot
Q_BOEING
From: Sent: Monday, June 05, 2017 8:26 PM

To: @boeing.com>; @boeing.com>
Subject: Re: MAX LEVEL B DIFFERNCES SOLUTION
Dear
Updating my cell no is
Thanks
Deputy Training B 737
From:
Subject: MAX LEVEL B DIFFERNCES SOLUTION
I just spoke with at his mobile # below. Currently in FFS and busy rest of day. He welcomes you call him this time tomorrow at number below (and attached). The number shall be:
This would be 11:00 AM Jakarta time.
Best Regards, Boeing Flight Services Regional Sales Manager APAC Singapore UTC/GMT + 8 hours
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amended.	to damage eadsed by this email of any attachments and may monitor email trains.

From:	Boeing Employee
То:	Boeing Employees
Sent:	8/17/2017 7:16:15 PM
Subject:	RE: QRH Procedure for MCP LOCKUP
You guys rock! Aweson	ne. Great stuff.
From: Boeing Employe	
Sent: Thursday, August	A The Control of The
To:	@boeing.com>; (
	ooeing.com>; @boeing.com>;
	eing.com>
Subject: RE: Q	RH Procedure for MCP LOCKUP
Sweet! You're jedi mind	d tricks serve you well
,	
737 Chief Technical Pilot	سا
707 Office reconflicter not	
BOEING	
From: Boeing Emloy	ee
Sent: Thursday, August	: 17, 2017 2:15 PM
To:	<u>@boeing.com</u> >; <u>@boeing.com</u> >;
	<pre>@boeing.com>;</pre>
Subject: RE: Q	RH Procedure for MCP LOCKUP
Done will tell	he has no objection to the checklist.
Done. will tell	The rids no objection to the checkist.
From:	
<u> </u>	17, 2017 12:23 PM
To:	2017 12:23 PM
@	ooeing.com>; @boeing.com>;
<u>@boe</u>	eing.com>
Subject: Re: Q	eing.com> RH Procedure for MCP LOCKUP
Lauggest a phone call h	ack to telling that while in general we don't support cycling CBs we realize this has
heen an effective custo	mized NNC and would hate to see them lose it, especially since it's worked well for
them.	inized 1979 and would hate to see them lose it, especially since it's worked well for
	oinion, he's asking for So let's give him enough ammo to pull the trigger.
Li ion t usumg our of	i so let b give min enough annine to pair the trigger.
Sent via the Samsung Galaxy S7 active, an AT&T 4G LTE smartphone	
Original messag	e
0	

From: <u>@boeing.com</u> >
Date: 8/17/17 1:48 PM (GMT-05:00)
To: <u>@boeing.com</u> >,
@boeing.com>,
@boeing.com>
Subject: RE: QRH Procedure for MCP LOCKUP
seems to be getting hung up on the conversion from making their own manuals to Boeing.
The MCP LOCKUP NNC is only in the COC book, no other operators get this NNC.
I don't see that we need to justify whether or not it complies with our definition of troubleshooting. This is in their book by COC, not by NTO. We didn't approve the checklist, just published it.
I looked through my archives and don't see any discussion other than documentation in 2005 of inflight service experience. We do have a FOTB, attached, that directs to cycle the FD switches. That same content is in the FCTM. Comments?
From: Boeing Employee Sent: Thursday, August 17, 2017 8:48 AM
To: r@boeing.com>;
@boeing.com>;
Subject: FW: QRH Procedure for MCP LOCKUP
Ross is looking at this
From: @faa.gov [mailto @faa.gov]
Sent: Thursday, August 17, 2017 8:38 AM
To: <u>@boeing.com</u> >; <u>@boeing.com</u> > Subject: FW: QRH Procedure for MCP LOCKUP
Would love to hear your thoughts before I respond. Many thanks.
L AEG Pilot, FSB & FOEB Chairman
ERJ-170, ERJ-190, BAE-146
Seattle Aircraft Evaluation Group (AEG)
We value your feedback.
Flight Standards Service Feedback Form
From:(FAA) Sent: Wednesday, August 16, 2017 8:30 AM To:(FAA) Cc:(FAA);(FAA);(FAA);(FAA);(FAA)
Subject: QRH Procedure for MCP LOCKUP
I am the APM for the B-737-800 fleet at the CMO. In coordination with the Seattle AEG for the past 11 years, I have been involved in the approval process on several versions of the QRH.
Prior to 2014, had their own stylized QRH, which provided Non-Normal procedures on the right-hand page,

and detailed instructions and information for the crew, on the facing page. This QRH was in use for many years' even prior to my arrival at this CMO in 2006. In 2008, at the POI's request, another APM, and I met with Inspector B-737 AEG. Inspector conducted a review of the QRHs and provided an e-mail on his findings. This e-mail and samples of that stylized QRH are contained in attachment #1.
In 2014, petitioned the SEA B-737 AEG, for approval to use the Boeing QRH and Quick Reference Cards (QRC). This request was also approved, however, due to the incapability between and the rigid Boeing publication schedule, is now printing their own QRHs, but continuing to follow the Boeing procedures and format. Attachment #2 contains the current QRH version.
The B-737NG MCP LOCKUP procedure directs the crew to pull and reset selected circuit breakers on the P-6 and P-18 panels. Discussion within the office made us question whether there was any conflict between this QRH procedure and the general Boeing guidance that directs crews to avoid troubleshooting. This QRH procedure has been approved for many years, and it is the opinion of and the B-737 APMs in this office, that the procedure remains acceptable. Would you please provide us your concurrence on this matter so that
Thank you for your help,
Aircrew Program Manager – B737-800 Certificate Management Office
Any comments you may have on service provided are appreciated. Please email feedback to

http://www.faa.gov/about/office org/headquarters offices/avs/stakeholder feedback/afs/field/

From:	@boeing.com>
To:	Boeing Employees
Sent:	5/18/2018 10:38:43 AM
Subject:	tomorrow and upcoming weeks
10:2	20 AM:
L	hey are yanking your chain. Sorry man
T carre policie no nove	10:20 AM:
It's such a shit show	
totally	O AM.
107 CHOCK - 0.00	EAA passes this turd
I i be shocked if the	FAA passes this turd
Thou are doing all th	
	his last minute shit. I really do need to be there to make sure they haven't screwed things up too badly
LJ	1 AM:
you know they did	
	eir concerns yesterday with the high DR count for SIN. Not going to be easy
i!	21 AM:
not surprisinng	
<u> </u>	
	prward to the next few weeks
	today off, now I'm making travel changes, and emails. It'll be a lot of overtime this pay period!
10:2	
	ur family, be there as much as you can
dump anything you r	need to on me or the other guys. I leave for my trip next Fri for a week
	10:26 AM:
	e a good trip around Europe!
10:3	22 AM:
thanks, should be fu	n. 2 new pins in the map for me

From:	@boeing.com>
То:	Boeing Employees
Sent:	5/18/2018 9:18:56 AM
Subject:	MAX Level D
	8:48 AM:
Morning	
Your badge still worke	
8:50 lol	AM:
morning sir	
177	terbut working from home today so who knows about the office entrance lol!
	8:51 AM:
lol	
Same thing here (8:51	A 10.4.
haha	AIVI.
	8: <u>51 AM</u> :
Just got a request from	L
	nt way more time on this project than I should. And I was because they failed to listen to me in the
first place!!!!! Arghhhhh	
8:52	AM:
:	
	ed an extra day with you just in case
cause they love you ;)	The same
Either way, not much c	j:52 AM:
8:52	
haha yeah i saw that	
	8:52 AM:
Didn't really say much	
8:52	
i think he's overall unim	ipressed 8:53 AM:
	been an impressive performance
8:53	
pretty sure he has a so	our taste in his mouth about this team
	8:53 AM:
tireless work	st about scraped through to a yes vote is because of YOUR work. And hugely because of
	ated a culture of "good enough"
And that is an incredible	ly low bar.
	ymore. The cozy days with regulators are nehind us
geah i'll look to get sor	
yeah things gotta chan	
	the head and start fresh
	8:55 AM:
	ore than anyone. BY A MILE
that team just continue	
that team just continue	is to piss me off on, never accountability
	B:55 AM:
	things at Boeing anymore. Out with the old, in with the new I say

Not necessarily people, but attitude!
8:56 AM:
yeah but the quickest way to change a 20 year attitude is to rid the people that drive the attitude
not sure your relationship with but i've not been impressed
8:59 AM:
I really like as a person. But to say that using the AMM was very in depth testing??? WTF. The AMM only describes how the system works. What is the benefit to coding the software to a different behavior that the actual system and
AMM?
It's a culture issue. It takes 5-12 years (ish) to change culture. Better not waste any time making changes.
9:00 AM:
it is a culture issue for sure
if there's one thing boeing does well is waste time
lol!
thats the whole compnay in general not just T&PS
9:02 AM:
Yes, that is true
We have wasted so much time and money on this. And it was completely avoidable
I have used the words "misleading" and "mischaracterization" a lot over the last two years in relation to his program. I
could be even more honest as use other synonyms that even better describe what has been going on.
needs to make changes here before 777X
9:06 AM:
i feel like cares less about this stuff
his vision is all about more business development
not the operational side
operational side in his mind will take care of itself
my opinion at least
9:12 AM:
probably true. Hope sees things differently
This must cost and arm and a leg though
9:15 AM:
yeah we'll see
nearly impossible to capture the true cost of all this
imagine the enormous OT, travel, etc

From:	@boeing.com>
To:	Boeing Employees
Sent:	5/14/2018 4:50:02,PM
Subject:	Conversation with Boeing Employee
	<u></u>
	3:20 PM:
can you forward this r	
My outlook doesn't wo	ork
need to use my ipad,	but the meeting notice is not there
3:21 PM:	
Sent	
	3:22 PM:
so weird, it does not s	how in my calendar on the ipad
:23 PM:	
STrange - sent it	twice - I'll try the other one
	3:24 PM:
It shows up on my cor	mpany phone, but not on ipad. And my outlook asks me to sign in but does not accpept my sign in
:24 PM:	
I have had that since	the last Windows update
Try quitting outlook ar	
I find now I have to do	that if I switch networks
	25 PM:
l did	
j:25 РМ:	
Ahhh	
	25 PM:
I even shut down the	computer
3:25 PM:	
That isn't good	
)	3:25 PM:
Let me try different ne	
	3:29 PM:
still not working	
3:29 PM:	
That's strange Might need IT to help	
wilght need in to help	a o pre-
Yep	B:29 PM:
	(Annual Laboratory of the Control of
3:31 PM This message was Yep	it sent to
<u> 1ep</u>	:35 PM:
hmm	j.55 P.WI.
lets see	
35 PM:	
What do you mean - i	tis a YES
vinat do you modif in	:35 PM:
haha	lass time
:35 PM:	
There is one group ar	d we aren't it
	}:36 PM:
vour vote is the same	as[]

3:36 PM:

The fact that it has taken 6 hours to review the outstanding DRs speaks volumes to the state of the device
3:39 PM:
No and No
3:39 PM:
yes
3:39 PM:
NOOOO
3:39 PM:
I am concerned on both
Tall concerned on both
:
39 PM:
So am I - more SDSRs need to be raised on the QTG Not sure if they can be turned around in time
You better start drinking the koolade
ji 3:40 PM:
hmmm Let's talk tomorrow marning hefere the call
Let's talk tomorrow morning before the call
40 PM:
So get ready to lift the carpet, break out the brooms and start sweeping
8:41 PM:
The fact that this call took this long kind of proves where we are
3:41 PM:
Exacty
3:42 PM:
what???
sound fails?
3:42 PM:
And there goes the final nail into the coffin
3:42 PM:
final?
3:42 PM:
I have some spares
:43 PM:
I think there will be more. At this point there are more nails than wood in the coffin
3:45 PM:
Get silencer, put on end of gun, place adjacent to temple, and pull trigger - the problems stop
At this point, how can they consider continuing?
3:50 PM:
(facepalm)
8:50 PM:
(facepalm) (facepalm) (facepalm) (facepalm) (facepalm) (facepalm) (facepalm) (facepalm) (facepalm)
(facepalm) (facepalm) (facepalm) (facepalm) (facepalm) (facepalm) (facepalm) (facepalm)
3:51 PM:
(lalala)
B:56 PM: That pretty much settles it then
parameter and the second secon
3:56 PM:
It does in my view
3:57 PM:
Do you know what the final DR count is for tomorrow?
3:57 PM:
1 minute
total is 178
P1 = 0
P2 = 9 P3 = 107

	P4 = 62
	Now you have to factor in failing sound, unnecessarily high ambient noise etc.
	May be 7-12 RFRs/RFIs which I can check on Saturday when I arrive
	Tiller unknown and only being checked after Go/No Go
	I can fix 5-6 more with the malfunction descriptions
	:07 PM:
L	A new load has to be taken at this point anyway to deal with the calibration of the tillers
-	4:07 PM:
	just talking to
ſ	1:08 PM:
	How is that working out?
-	10 PM:
_	Hmm, same as always
	Not going to get anywhere
	just getting a history lesson in URT
(-·	Same as every other time
	4:14 PM:
Ĺ	Oh - not good and no progress
	was right on the call though - whether the FAA express verbally that they want a dynamic scenario, if they do not
	demand it in the regulations, there is no need for it to be supplied
	I'm calling it a night - only an 18 hour day today
	Must be slacking
	Speak to you tomorrow
	4:38 PM:
•	haha, tha's disappointing. I just did a 19 hour day (if I count the sleeping I did last night!)

From:	h@boeing.com>
To:	Boeing Employees
Sent:	3/22/2018 9:25:37 AM Conversation with Boeing Employee
Subject:	Conversation with Boeing Employee
	2:31 PM:
Are you dialling in	
2:32 PM:	to the meeting:
Yes - 2 minutes	
	2:32 PM:
cool	
2:33 PM:	
I'm on	
	2:35 PM:
This is weird	
'm not 100% sure	what to do with
2:36 PM :	
	nne - leave the DR open awaiting data
	nat it is right before allowing it to be closed
	the priority if need be
UOk, sure	2:38 PM:
2:38 PM:	
But leave it open	
(8)	a backup if a regulator spots it again - EASA and UK CAA will likely test it
	⊉:45 PM:
You ok with that?	
2:45 PM:	
I'll check it but the	y are just dispositioning DRs again - will take the video and send it to all parties
	2:57 PM:
Seriously?	
2:57 PM:	
Its a bloody joke	
·	8:01 AM:
	ou, wanted to see how discussion ended yesterday
8:04 AM:	
	med a poor connection - as soon as you dropped off line started stating you had accepted it all in
November	per with the whole thing - they fail to understand that the pilots subjective feedback is as important as
	test conditions that pass or do not show the full picture
	ne during this meeting
	8:07 AM:
	n what you were saying yesterday about the complaint from LGW in regards to go-arounds, what is their
concern?	
8:08 AM:	
Pitch oscillation du	uring flap retraction
FD commanding of	
Autopilot descend	
	8:09 AM:
ok	
:09 AM:	a complete could they peoplify know
	s so what could they possibly know
	Ŝ:23 AM: cross clearly
Hope that came a	uiuss uidaiiy

8:24 AM:
It did but they don't understand they will be getting this from every customer of the Binary
They are not equipped to deal with this product in their current capacity
They will not just be dealing with TDMs but operators
8:31 AM:
This call is a waste of time
It has digressed from what was planned and turned into the same old blame game and ego fluffer for in the
CAE-glory days
hasn't worked there for 15 years
8:35 AM:
So frustrating
8:35 AM:
I know - fails to realise that having engine malfunctions insertable at low power is not an improvement, it is a
requirement
Most engine malfunctions need to be inserted at high power - therefore they have no use in the training environment
8:36 AM:
Exactly, that's why their prioritization is important.
8:36 AM:
The risk is by not declaring this as such, the FAA will raise each failing malfunction as a NQT
8:36 AM:
exactly
B:37 AM:
has never ever worked for an airline or training centre
So has no understanding beyond initial device qualification
8:54 AM:
Jesus!!!
8:55 AM:
on the call :)
8:55 AM:
who is?
8:55 AM:
They do not understand the liability we as a company are taking on
Jesus
8:55 AM:
haha!!!!
9:10 AM:
That was a complete waste of bloody time
How is a lack of sim support and Binary resources our problem?
9:10 AM:
It was, except I'm glad I got my points across. I think they are getting to target fixated, can't the forest for all the trees
It really isn't. Staffing levels is someone elses fault
9:11 AM:
Why are they only listening to you now?
9:11 AM:
and problem
I don't know. Better late than never I guess, they apparently like to live on the edge!
9:12 AM:
Not sure if I will be returning in April given this - am not lying to the FAA Will leave that to people who have no integrity
9:13 AM:
I'm sorry, that is not acceptable. Your integrity is a priority 4.
3-12 ANG.
):13 AM:
×1

From:	E	Boeing Employe	е	
To:		Boeing Em	ployees	
Sent:	2/25/2016 7:57:28 AN			·
Subject:	RE: For 2pm			
handle our blended app The D6 document for really describe what we see that in how different changes with absoluted detail to list what they would have helped rese	nt on previous program typically would be (people order relative to TIA (storoach well which lead TIA instructions/required are doing relative to a systems groups are an odetails of what the vere doing. A clean stolve this. Thus there is idence in how to interpretations.	ns (747-8, 787-8) ople are used to states/implies strists to different integements are too verthe airplane conficient addressing the isey are doing to story of what we are no confidence to oret what is acceptional acception.	a "firm" aero config ct transition from c rpretations ague. Because of guration after TIA a ssue. Some just sa upport their certifica re really doing to go that the FAA is under otable and not acce	that there is no plan laid out to and getting to certification. You ay they will address post TIA ration tests. Others went to great yet from TIA to cert tests to cert erstanding what they are accepting eptable for post TIA configuration
Aero-Stability&Control, 73'				
From: Boeing Er Sent: Thursday, Februa To: Boeing E				
Project Administrator Boeing Regulatory Admin	nistration			

From: To: Sent:	@boeing.com> Boeing Employees 12/10/2014 2:39:47 PM
Subject:	Missed conversation with Boeing Employee
	:13 PM]:
how'd IPT go?	
	[2:14 PM]:
as	. Sounds like TD is planning on using NG T1 plus MAX differences for the manufacturer's minimum course, mentioned to us the other day :15 PM]:
L	e a pretty ugly set of CBTs, but if it meets minimum, that's fine. No one is going to buy that training (I
[[2:18 PM]:
	nat the AEG will be okay with going about the transition course this way 19 PM]:
I hope	I WI.
187	about that got blurting out an FTD is needed
oops, guy not go	
that was protty n	[2:20 PM]:
	nuch a turd in the punchbowl 20 PM]:
big stinky one	
	going to latch onto that like a starving dog to a milk bone
	[2:21 PM]: In update on the T-1 DOORS thing, I sent an email to the asked to take care of it.
i	22 PM]:
i'm still not grası	ping what the DOORS thing is [2:23 PM]:
	T&E schedule to do the T2 test.
(24 PM]:
triey aiready kno	w about T2/T3 for the -8 and T1s for the -9 and -7???? [2:24 PM]:
Will send	an email reminding him that he promised a Task Analysis briefing to the AEG in January. I hope
	progress on that.
Yeah they should follow	d know about it, but my understanding is that we still need to apply to have it on their schedule. Details to
	25 PM]:
l	this RCAS stuff, we're going to have to immediately start up on RSAT, to try and get the training level
determination	₁
<u> </u>	[2:25 PM]:
agree	26 PM]:
I	from an NP PMP, who's working the pitch to for both. I told her she needs to wait until late Jan early
	S training level, and it will be months before we get it for RSAT
[2:	:37 PM]:

oops, I meant NG PMP (Program Mgr)

From:	Boeing Employee
To:	Boeing Employees
Sent:	8/25/2015 1:42:49 PM
Subject:	Conversation with Boeing Employee
[11:4	12 AM]:
hey	
	to the pptx that we updated in this meeting.
[11:50 A	и]:
ok	
	51 AM]:
	inbound CRI on the Roll Arrow, and FAA IP on the ORW. I added that we met with AEG on the CBTs
and updated the TIA da	
[11:55 AN	
	oing to push for removing ARSA as cert requirement
	59 AM]:
cert requirement for th	
[12:00 PN	Λ]:
yes	
	ook at an IAN issue right now for U12, perhaps give it a thumbs down, which will delay cert of U12,
	ity to push for removing ARSA as MAX cert requirement
	02 PM]:
[12:02 PN	ng enough case to convince SACO ARSA isn't required?
thinks so, and	I authority, so it can't get in the conditions the latest amndt is trying to protect for
	3 PM]:
	er for the MAX. Lots of hours and \$\$ spent on that thing.
[12:10 PN	
i know, but massive risk	
[1:25 PM	
flies the NG mo	re than the tech pilots do. How wrong is that?
L	5 PM]:
on a number of levels	
[1:29 PM	J:
I'm hoping we can kill I	RCAS
waiting to hear back fro	om[
[1:30) PM]:
That would be a hoot in	f after AEG approves the CBT, we come back to them and say "nevermind "
[1:30 PM	l:
lol	
THE T	

but this is what these regulators get when they try and get in the way. they impede progressw

From:	@boeing.com]			
Sent: To:	12/12/2017 9:44:16 PM @boeing.com]; [@boeing.com]			
Subject:	[@boeing.com]; Conversation with Boeing Employee	j		
•	\			
;				
iesus, aet of):17 PM: f the computer and go drink with your wife!!!!			
been there of	i			
taking some	time off late next week			
	9:19 PM:			
good	!			
this is garba	ge that 3 of us are online right now, and I had to boot off 30 min ago			
flex or OT				
garbage tha	t we're working this hard			
	9:19 PM:			
that is the st	tory of the 737 group			
i know but w):20 PM:			
	ve need to be able to justify replacing			
not that we	can			
):20 PM:			
agree and a	gree			
its a fine line				
):22 PM:			
no it's a BS l	ine			
):22 PM:			
yeap 				
grey goose i	j9:28 PM: is vijmmy			
g, cy goose i	·			
are you just	i9:28 PM: starting? or just going?			
	9:29 PM:			
half way				
funda i ma	9:29 PM:			
rui iriy, 1 was	having some Bowmore Scotch, very good			
also tasty	9:29 PM:			
-	ind tricked this fools.			
I should be	given \$1000 every time I take one of these calls			

I save this company a sick amount of \$\$\$\$

what did you convince them of?
9:31 PM:
to simply produce an email from me to the DGCA that states all the airlines and regulators that accept only the MAX
CBT
to make them feel stupid about trying to require any additional training requirements
well done, i give you a raise. all you need to do is go to and accept it.
9:33 PM: sweet, and I give you the same!
):33 PM:
yeah
now go sign off
i will soon
9:36 PM:
NOW!!!!
kids and the wife are watching a show that i am not interest in
9:36 PM:
unless it will help you flex with the kids next week
yeah, Thur off next week
Sweet A 9:37 PM:
I'm doing smae
same

From: To:	@boeing.com> Boeing Employees
Sent:	5/23/2018 1:49:51 PM
Subject:	Conversation with Boeing Employee
	(<u> </u>
21 Cue Darth Vader's music	:05: c?
21:12:	
Somebody's head will ro Now the TERR FAIL [als	so TRU issue] has occurred - not going well for them when the blame game starts to be played
Any of the Binary issues	
21:14:	Let be seed a
None	
21	:14:
Because voodoo)?
21:14:	
	to one of the door interlocks tripping4
is here - he proba	ably sabotaged it
Well, I told them back in	
If the sim fails, it best no	· ·
21:17:	
It looks like they didn't lis	sten
	FAA inspector was briefed by and was negative from the get go
	er of DRs, not Boeing 'quality' etc
	when people fold when they should stand firm - integrity should not be cast aside when pressured ne 'intermittent' ones I said could kill us
	:20:
	n't ever happen during eval
	AA on the Binary, surely
21:21:	
Binary is now going to g	et their first NQT/unacceptable but this will be blamed on TRU integration
21	
	h the inspector at all: 115 declared DRs is unacceptable
21:21:	vers of which issues reside with whom?
	vare of which issues reside with whom? :21:
	dn't declare any of the major issues he's finding
21:21:	ant accidite any of the major locace he command
98 it got to	
21	:22:
Probably because h	id 25 in "transit" between Binary and TRU
21:22:	
	aid toand which is why I said it shouldn't go ahead. There was no need to take this risk given
there is no training	
ز21 Worse	:22:
	UK CAA won't extend LGW
Where there <i>is</i> training	
21:23:	
Or CAAS/EASA in Singa	apore - the house of cards is starting to topple
F 21	
The house of cards built	by SMS

21:24:
Sadly, a part of which I am
1:27:
SMS PM
21:28:
So much of the brown stuff is going to be thrown that I don't think anyone will be safe
21:29:
No doubt
Wanna come to Fleet Care?
21:30:
Yep - can't work forany longer. He doesn't get it
21:37:
Should have hired you as the SPM instead of

From: To: Sent: Subject:	@boeing.com> Boeing Employees 5/15/2018 12:09:52 PM Conversation with Boeing Employee
F	 17:37:
hev I need to ca	tch you before this meeting
17:37:	ton you belore this meeting
Call away - this	TRB is going nowhere
17:38 Connected to	@boeing.com).
17:48 Call with	@boeing.com). @boeing.com) has ended. Duration: 00:09:58
	19:14:
	he time to speak to any other issues that haven't bene mentioned
19:14:	
They have all be	een touched upon
<u> </u>	19:14:
ok 19:22:	
Thanks be	etter put than I
Thanks	19:39:
anything siad he	re change your opionion?
19:40:	
	are ploughing forward regardless of the danger, failing to appreciate the implication of Boeing failing to
	device running the Boeing Binary
	to appreciate that a delay would be less costly than the incurred costs for sustaining this, particularly as ed to be changed immediately.
	g your opinion? It all sounds plausible on face value but one slight error would compromise everything.
/ ii o iii o y o wayiii	19:43:
I think the right a	answer is it's not ready. I think we could get through it, but we'd be doing it just to save face. The bigges
	FAA can't come back for 3 months it risks the program.
19:44:	
	ssing need for the device to be qualified at this point so why push our luck - we fluked 4 qualifications last and I had to compromise integrity during the qualifications. We left the campuses with a poor quality
-	tunately in 3 campuses went unused. 3 campuses only got to the same standard sustainment-wise two
weeks ago	taliately in a campassa well allassa. a sampassa only got to the same standard sustainment wise two
Singapore is rur	nning a load that is >7 months old
	lifferent and given we need TRU to fix things, how will they cope given that they are struggling with the
	e and have our #5 IPA coming up. the resources or bandwidth to deal with 6 different device QTGs going on at the same time
	ook 6 hours to review the DRs last night speaks volumes to its readiness
	o remove the projectors, reclamp the lenses, refit them and realign them thereafter - that is going to be
time consuming	post qualification
	ified, how do we expect to turn around 7 day fixes ifis en-route to Singapore?
19:57:	Ety icalé high appuals
No go - the qual 5-3	lity isn't high enough
Thought so	
The second secon	

From:	@boeing.com>
To:	Boeing Employees
Sent:	4/8/2018 8:10:13 AM
Subject:	Testing of TP 2.3.57 / Binary 3.19.4.0a
	15:36:
;	definitely looks worse than it did before
15:37:	
Thought it was just	t my flying :) g it do that previously either - it was repeatable though
Tuonit recall seem	15:37:
It pitched you into	
15:37:	
Yes	
	15:37:
It was never anyw	here near that bad
	u pitched down it followed you
	e pitch attitude too much
15:38:	when asked to fly at 45 degrees pass up _ initially I tried to follow it religiously but then thought I'd be a
	s when asked to fly at 45 degrees nose up - initially I tried to follow it religiously but then thought I'd be a oputs as it seemed like the FD was changed to within +/1 degree of the aircraft attitude
	ve how bad it was - the first altitude on the route was 2000' and it blew through that by about 500'
before even comm	
	15:40:
(A.S.)	ng to fix that for over 6 months
15:40:	
Will go back to the	e training [iLC load] and see what it does
L dank and have the	15:40:
	s will get fixed next week er" pilots can probably sign this off as no training effect
15:40:	pilots can propably sign this on as no training effect
L	e the FD commanding a descent during VNAV acceleration S/E - will see if you can do that when you
arrive	,
No issue whatsoev	/er
	15:40:
We'll look at it next	
And let's look at th	hat 125 issue too hope I get hit by a bus between now and then, really don't want to be there
15:41:	hope I get hit by a bus between how and then, really don't want to be there
I spoke to bo	out that last night
	15:41:
What's his take?	
15:42:	
	says he will back you and fall on his sword before you take a hit
Time will tell	ad to TDI I to do., but no information passed to reveal for the last print who
	ed to TRU today but no information passed to myself, orphonedlast night who to the TRU engineer.
carried the phone	5:43:
I will try my best to	b be quiet, talk a back seat approach in meetings, and only talk specifics and metrics
	? I thought it was every week, and the sprint closes today so the new binary should be released
tomorrow, right?	
I-Foy, Neil 15:45:	

Don't know why - it has a new engine model with updated oil temperature model - I haven't looked at it yet as TRU are testing but will try again. Don't think it was tested as TRU asked for the QTG results and didn't receive anything

	You should have been on the call yesterday to hear that. "physics based"
Ī	15:46:
6.	Will be interesting
į	15:47:
	I will make sure that we get the data as to how many sprint 1 issues were offered to us, and how many were rejected.
	We need to put up real numbers
	You, me, and saying it like it is doesn't work. It just doesn't stick with people. Hard numbers will hopefully do it.
	If not, then we are truly screwed
ſ	15:49:
i	I'm looking atsprint 1 list and as far as I can see only 26 of the 69 issues are closed
	And that is with the updates from yesterday
	is worried that everything will be downgraded to P4 - I said that you and I wouldn't tolerate that. He agreed
į	Will be interesting to see if he backs up talk with action
Ł.	15:50:
	I think they mean close as it is offered to be checked, for the purpose of the sprint. I'll give them that, but that is why we
	need to check rejection rate too
į	15:50:
	I don't consider offered, I only look at what I have closed - Sprint 1 is over but < 50% was completed
	15:51:
	I hope he will, but ultimately he works for who suggested that in the meeting yesterday
	That is a terrible rate
1	15:51:
-	V
ľ	Yup
	That needs to be addressed next week
	I-Foy, Neil 15:51:
	There are several QTG issues that could be closed by wants further discussion
ſ	15:52:
i	Ok, that may help a little
ŗ	15:53:
i.	
-	But still not the big-ticket items such as FUEL FLOW etc.
i_	15:53:
	They can downgrade to P4, but we still have to disclose anything with a flight deck effect on the F&S
į.	15:53:
	Am opening the IAN/FAC issues in DRDB also so that they don't get papered over
Ĺ	15:53:
	That's a good idea
Ĺ	15:54:
	Nope - if it is visible on the flight deck, I won't downgrade it
į.	5:55:
	I'm with you, but they can do it behind our back and hope to get away with it. said explicitly that there are other
	pilots who have a say on if it has a training effect
!	15:56:
_	Oh yes - there are plenty of Yaeger wannabes out there but very few who I trust. It will be and I will not allow him to
	do it. If I need to, I'll emailor send the full list to EASA/UK CAA
1	15:56:
_	Hopefully will support us.
ľ	15:57:
١	I think he has to otherwise, is position is untenable.
f	15:57:
L	Anyway, I got up for the morning call only to find it was not on. I will go and do some useful stuff. Try not to think about the
	shit show
	I'll probably be on later to see how things are going
ſ	15:57:
L.	Good for you! Enjoy your time with your family and safe travels tomorrow
r	15:58:
i_	Thanks, see you soon

ok, well I am looking forward to testing this new "physics based" engine model

From: To: Sent: Subject:	@boeing.com> Boeing Employees 3/28/2018 8:21:29 AM Conversation with Boeing Employee
L5:00: How you feeling?	
	in 15:01: at slightly slower speed than normal and a bit sore still!
15:01: Must have been a	a terrible shock - do the doctor's have any idea what caused it?
	incely the best outcome is they don't, and that it remains a one-off!
15:02: Ergghhh - not a g 15:20:	ood response
All DRs are in TD become global bu	MS in SMO or Campus - LGW has a lot of DRs that insufficient information is provided - they may ut the instructors aren't helping with the brevity of their responses will be transferred to the campus closer to qualification but the plan is to have much of it resolved in the
on what is neede get-together with	_i15:42: _ian 'hit' the instructors at LGW via a couple of ways - the updated DR process I'm writing with more info d for raising DRs, plus some separate things that came up with FT here at LGW where we'll be having a them! Understand totally about TDMS, ECDs etc - it was us that arrived at the solution of not tagging the device if not resolved! - I'm just trying to figure out where to get the most 'objective' picture of progress o-green plan.
~	lace for the outstanding issues - the Miami device has very few device specific issues due to low usage
ok, thanksl	take it you are fed up with being in MIA totally now? Are you leaving MIA because of the 30 day thing?
Yes - I'm not fed of the state of the fixing the problem	up with Miami. I'm fed up with the meetings that include countless managers who have no understanding e simulator or the problems that will arise. Everybody is investing more time in blaming others that actually not so f spreadsheets flying around and none of the data is in sync - nobody questions on the IPT why
	CDs are not included in sim support metrics - how many are outstanding 5, 10, 500? It is masking figures
Nobody questions	s how SDSRs requesting assistance can be closed with the comment "this is a TRU integration issue" - is a grey box provided by Boeing as part of the BSP
	_i_15:49: t I also agree with:that there has been bit of a mind-shift in the past couple of weeks towards actually g stuff instead of passing the buck. Is it too little too late? - who knows at present!? Will be in MIA during il?
	ng before then I believe
	FAA is 20th April [15:51: FAA in ATL, then a verification audit visit to MIA in the 2nd half of the week
15:51: OK	TANK IITALE, CHOIL & VOIMOACON AGGIC WORL TO WITA III THE ZHO HAIL OF THE WEEK
	en't meant to travel
I'm OK to fly, I just for the week!	st had to cancel Shanghai as I was due to depart the day after I left hospital and they signed me off work

[15:53:
3-0	Oh ok - that's good
-	15:56:
	I'd be really screwed if I couldn't fly! It's bad enough not being able to drive for 6 months!!
\mathbb{C}	15:56:
	I bet - welcome to my world :)
	16:04:
	you chose it though!
	16:09:
L	True
	You got me there

From: @boeing.com>	
To: Boeing Employees	
Sent: 2/8/2018 8:25:29 PM	
Subject: Conversation with Boeing Employee	
03:33:	
I feel like such a sucker	
03:36:	
me too - i/o seems to be the problem at lgw - not the switch i thought	
03:36:	
interestgin	
*interesting	
03:40:	
Clearly wouldn't have guessed that.	
03:40:	
nor i but it confirms	
F 03:41:	
Great!	
TRU will be there at 09.00	
03:41:	
OK	
By the way, I want a really honest assessment from you: are TRU really doing their job fully, and by extension, am I?	
Don't have to give now, and don't ever have to stop	
I just want to be sure I'm adding value, not just taking up space (especially since I'm clearly an awful FO)	
03:43:	
you don't need to ask such silly questions. You are doing a better job than the PMs - if I ask you something, I g	et
an answer or what I need. If I ask SMS PM, I get buggered with a banana	
03:43:	
That's a low bar, mate.	
I appreciate it, but it's a fantastically low bar	
I feel awful that there are (at least) 97 DRs	
and SIN MQTG is so out of date	
not to mention all the issues at SHA and the LGW MAX has been AOG for damn near a week	
03:44:	
I believe TRU are disorganized, chaotic, dysfunctional, but hard working, honest, open to criticism [and there is a lot] but	rif
no different to other TDMs but are cheaper and have to date, not failed to meet a major milestone	uц
03:44:	
Thank you	
Please don't ever stop providing honest feedback. I don't trust many people in Boeing, and like I said, I really just want	to
be sure to add value.	
Especially because I miss my family so much when I spend so much time away.	
I can't tell you how much I appreciate your presence on this program. I've been trying to find a way to get you on the 7	77X
because I don't know how else we would succeed.	
03:46:	
There are 180 DRs on LGW and that is the lead ship - the hardware is buggered I believe but because I promoted a software load, it is easier to blame that than fix the issue. That is due to misreporting by a campus that I held in regard	but
then lost the rose-tinted glasses.	bul
You are only working as herd because you are trying to current your family. It doesn't seem like it to them and probable	sler

You are only working so hard because you are trying to support your family - it doesn't seem like it to them and probably not to you right now, but in a few years, they will realise that whilst it seems you are abandoning them, they have each other whilst you are away - you don't have anyone whilst on the road - and I'm sure the Swede and I barely register on the

misfit scale.

The money you are working so hard to gain and the sacrifices you are making will pave the way for your children to go through college, for your wife to have the vacations and the things she needs

These things cannot be underesitmated

i	03:49:
	Thank you, my friend.
	I don't know how to refer to the very, very few of us on the program who are interested only in truth
	But it's mostly depressing that it's so few
	[
	Honesty is the only way in this job - integrity when lives are on the line on the aircraft and training programs shouldn't be
	taken with a pinch of salt. Would you put your family on a MAX simulator trained aircraft?
	l wouldn't
	p3:51:
	No
	03:52:
	is probably the best person to talk to if you have reservations - mine are grave at the moment and I won't stand
	for you or being thrown under the bus. I do not believe at this rate the Level D deadline is achievable. How seriously
	have Boeing taken TRUs comments regarding the sound package? That is a critical Level D component that is going by
	the wayside because we have asked TRU to tune to a poor quality data package
[p3:53:
	Our arrogance is our demise.
	I really like but the arrogance exhibited about the quality of the data package is appalling.
	I'm sure you, me, and will all be sacked if we keep our position. I'm not kidding - if I could go back a year, I would
1000	vote "no go" on the MIA iLC
	03:56:
	Me too but it wouldn't have made a difference - we can only draw that line in the sand and let our feelings be known. I will
	call over the weekend to have a frank discussion as to where we are
	I like simulators and have enjoyed tremendously working on this program - it is only a job after all and we are all
	dispensable when we it comes to it.
	I'd rather not get fired but my integrity means more to me than a pay cheque
	03:57:
	l agree
	I'm disposed to trust my gut and press my integrity more than I ever have
	If there is <i>anything</i> I can do to help you more here, please don't hesitate to ask.
i	03:58:
	At this stage, what else do we have - perhaps the Go-No Go should include the LGW instructors who use the device
į	03:59:
	If you get a "no" from TRU, or even hesitation, let me know immediately.
	03:59:
	You know me - if I think I can get it, I'll ask for it. I'm not shy in that regard
	Let me know if I am failing to do what I need to in any way
	03:59:
	Not in the slightest.
	You and I can fix this program
	I really believe that
ſ	It's what keeps me floating 04:01:
i	I'm sinking to be honest
ŗ	04:01:
i	I know - I'm trying to keep bring you and back to the surface
F.	
i.	04:10:
	You OK? No problems at home? Make sure you spend some time at home this time before you go away again
Ĺ.	04:11:
	No, no problems at home I just have these swings
	04:12:
į.	Get some rest - don't worry about waking up early tomorrow to take me in. I can catch a taxi
į.	04:12:
	No, no
	I'll be ready at the car at 6.15 Best part of the day, really
i	Best part of the day, really 04:12:
į	
	Nahh - now I know you are kidding!

04:12:
No, seriously
) 4:15:
Car at 6.15
It's ON
04:16:
Manyana
LGW:
Autopilot stab trim cut out switch is toggling
Also Copilot Yoke Autopilot Disengage is doing the same thing
04:18:
Lovely
04:18:
Wonder what that might be in hardware
04:19:
Great question, though I have had a concern about their overall wiring and general EE skills for over a year.
O4:20:
Indeed - at Gatwick stays still believes it to be software 04:20:
Well, TRU will have someone on site shortly who's actually intelligent
So we'll see then
04:21:
hope it isn't software - my bad if it is
04:21:
meh
04:21:
Can't see how it could have effed up though
F 04:21:
and I all assessed the same
I'm going to shutdown, elsewise I'll stay up all night.
Get some sleep, please
04:22:
You too - don't worry about me. Am an insomniac at the best of times and Aliens is on the TV
04:22:
LoL

From: To:	Boeing Employee
Sent:	4/24/2018 ⁻ 4:02:27 PM
Subject:	RE: Updated QTG
I agree with you e from the Boeing si	entirely and agree with the whole failure to plan this program properly de.
no support - Singa swapping some form	tired of being put in the middle of this with pathetically week PMs and pore has done nothing except break the simulator - the PM here is now of isolator in the cockpit for reasons unknown - he has no training on nks he knows what he is doing.
At this rate, I will not be returning to Miami this trip or coming out again to either s-I have had enough.	
Original Mess	age
From: Sent: 24 April 201	
To: Subject: RE: Updat	@boeing.com> ed QTG
schedule simply di the circumstances engineering suppor 2017 despite my ob conservative". Mor	result of a pour plan which I objected to repeatedly since day 1. The d not permit for any corrective actions to be taken; particularly given of the program and for a device which is clearly undermaintained. No at was ever planned in Singapore as per the change order executed in fall ejections when my initial proposals were refused for being "overly reover, given the need to extend residence in Miami, the Singapore mays going to be small and take its cues from Miami. This was discussed
caused recently by	the HW issues on MAX 2 were previously reported and a number of them were the campus itself. I am doing my best to mitigate the situation (as I there is a limit to what can be accomplished in 3 days.
submit the same do be addressed in Mi there is a limit t	will do our best to accommodate however the understanding was always to cument as in Miami run on the same load. Whatever deficiencies exist will ami for both campuses as required prior to the qualifications but again to what can be done in 36-48 hours. Moreover it seems that we have sound with as well which needs to be our primary focus right now.
	by the outcome of the F&S. Nothing much has changed in 4 days so I he F&S in Singapore to be any better than that of Miami. If anything it's magine.
We will continue t	o work out out issues but a lot of this is beyond our control.
FYI we are buildin you release notes	g a new load this evening and offering another 6-8 DRs. I will forward shortly.
Sent from mobile d	levice.

From: Qboeing.com> Sent: Tuesday, April 24, 2018 9:27:53 PM To: Subject: RE: Updated QTG
I let it slide for the Miami qualification and put my name to something I didn't have the opportunity to check thoroughly due to time constraints. I do not see why this cannot be corrected now. I wished I had looked at the motion buffet tests further - the resource data has no bearing on the VDR in several cases and I would like to know why - to my knowledge, the data did not change at the last minute so I want to know why it differs. I had previously asked to contact regarding the IQTG latency methodology as I had concerns - Jon is likely to reject these tests outright.
I also want answers to all of questions before Thursday morning Singapore time so that I can try and discuss them with him.
Given the current state of the device, QTG, and the lack of engineering resources on site, I cannot conscionably allow the device to be put forward for qualification and certainly will not be permitting the pilot to sign the F $\&$ S checklist. Given that there is no other opportunity for doing this, this part of the QTG will not be signed prior to arrival the day prior to qualification.
Attached are the questions I would like answered.
From: Sent: 24 April 2018 15:21 To: Septime
Isn't the document essentially identical to Miami? Or are you saying that we need to insert all of the relevant rationales at this point?
Program Manager TRU Simulation + Training Canada Inc. Email: Office: Mobile:
[TRU_logo_color_horizontal]

Merci de prendre en compte l'environnement avant d'imprimer ce message. Please consider the environment before printing this email.

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computer system.
From: Qboeing.com] Sent: Tuesday, April 24, 2018 10:18 AM To: Subject: Updated QTG Importance: High
Hi
Could you ensure that the Singapore QTG is updated before Friday with all affected closure letters/SDSR responses - I have grave concerns as to whether the campus will submit it at this point in time.
Thanks,
Training & Professional Services Global Services
Tel Fax Deboeing.com <mailto: deboeing.com="" deboeing.com<="" td=""></mailto:>
Boeing UK Training & Flight Services is a Ltd Company registered in England and Wales

Registered Office: Boeing House, Crawley Business Quarter, Manor Royal, Crawley, RH10 9AD

Company Registration Number: 3802219

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prohibited. If you have received this e-mail in error, please notify TRU

From:	Boeing Employee	
To:	Boeing Employee	
Sent:	2/20/2017 7:14:29 AM	
Subject:	RE: 777 ECL COC update request	
oubject.	T.L	
So they won't fix anythin	ng just like they don't in LGW, hence the large DR count.	
Makaaaaaaa		
Makes sense		
<u></u>		
From: Boeing Employe		
Sent: 20 February 2017		
To:	@boeing.com> 7 ECL COC update request	
Subject: RE: 77	7 ECL COC update request	
Yes the holy trinity of sla	ackers	
res the noty thinty of sic	acher 5	
From: Boeing Employee		
Sent: 20 February 2017	⁷ 15:13	
Subject: RE: 77	<u>@boeing.com</u> > 77 ECL COC update request	
odbject. NE.	7 Lot 000 apadic request	
Oh ok – who is on the c	ourse?	
1		
?		
From: Boeing Employe		
Sent: 20 February 2017	<u></u>	
10:	<u>@boeing.com</u> >	
Subject: RE: 77	7 ECL COC update request	
\		
I think this bit is the mot	ion system so maybe they have someone coming from MOOG	
From: Boeing Employee		
Sent: 20 February 2017	′ 15·10	
To:	@boeing.com>	
	7 ECL COC update request	
Subject. RE.	7 ECL COC apadie request	
Don't know who is goin	g to do the training	
From: Boeing Employ	ee	
Sent: 20 February 2017		
「o:│ <mark>@boeing.com</mark> > Subject: RE:│ ├777 ECL COC update request		
Subject. INE.	7 EOE OOO apadic request	
They should be in Miam	ii from today for 6 days!	
From: Boeing Employee		
Sent: 20 February 2017	⁷ 15:09	
To:	@boeing.com>	
Subject: RE: 777 ECL COC update request		
Judjeot. N.E. FIII LOL OOO upuate request		

No — the	y were in	Holland
----------	-----------	---------

From: Boeing Employee Sent: 20 February 2017 15:08
To: <u>@boeing.com</u> > Subject: RE: 777 ECL COC update request
So have you seen the LGW guys out there for their course?
From: Boeing Employee Sent: 20 February 2017 12:57 To:
I am certain now that sall bluster and no ability – he hasn't fixed a single thing without calling in multiple people to do his bidding
From: Boeing Employee Sent: 20 February 2017 12:42 To boeing.com> Subject: RE: 777 ECL COC update request
Will be interesting to see what happens in Singapore then as they are supposedly super thorough.
told me a cracker aboutasking him to redesign the brake feel on Fri afternoon the week before the Eval! He accidently forgot to hang up and after an expletive laden discussion with his Mrs heard the call drop. then called back to say maybe it wasn't such a good idea so late in the day!
Safe journey home.
From: Boeing Employee Sent: 20 February 2017 12:22 To:
Fly home today – having the kitchen replaced on Thursday through to Friday next week ${\bf L}$
Amazing what a brown envelope can achieve – it isn't anywhere near as good as it would appear to be reading the report. The FAA were neither thorough nor demanding and failed to write up many issues.
And the lies, the damned lies – I was removed from the simulator for three days in the week leading up to the evaluation on the instructions of a Senior Manager so that certainly individuals could 'tune' with the pilot. The tuning then fouled up multiple QTG tests and was clearly wrong and the pilot was forced to sign a SoC that was clearly based on a lie. Another Senior Manager was also screamed at in a temper tantrum by said individual and also barred from the simulator. The Go/No Go decision comes along and then aforementioned Senior Manager and Senior Engineer then state to a cast of 30 – "we have to trust the decision of on Site".
Needless to say, I tore straight into and about the lies and the unethical/deceitful nature of this comment as it meant I was set up to take the blame should it have gone wrong.
It is a joke and nothing more – whilst 9 PMs were on Site last week during the evaluation, it was for a jolly/free meal. One PM even said that given that we are under budget, we should hire a yacht a sail around Miami harbour to celebrate and even askedto submit the request

Honestly, you wouldn't believe it
From: Boeing Employee Sent: 20 February 2017 12:15 To:
Cool see my subsequent back track!
Are you back yet? I see it passed with some very positive comments so I'm guessing you must have been working your butt off out there.
From: Boeing Employee Sent: 20 February 2017 12:13 To:
No problem – there is nothing you can do to make it work if it believes the engine configuration is wrong
From: Boeing Employee Sent: 20 February 2017 11:55 To:
Thanks
From: Boeing Employee Sent: 20 February 2017 11:54 To: @boeing.com> Subject: RE: 777 ECL COC update request
It is impossible to use a GE checklist in the RR configuration – it just will not work regardless of whether it is valid or not.
From Boeing Employee Sent: 20 February 2017 09:27 To: k
Cc: @boeing.com>; @boeing.com>; @exchange.boeing.com ;
Subject: RE: 777 ECL COC update request
Hello

Our options going forward are:
1) Use a generic Boeing RR Checklist
Or
 supply a copy of their MODB & MODA2 LSAPS that they load along with the MODA (ECL) Parts for the AIMS2 GE BP17.1 ECL reate a custom version of the AIMS1 RR checklist for AIMS 2 BP17 and supply this with the MODB and MODA2 parts.
I did go to my colleagues in Seattle with this request but as the checklist is created by the airline they are unable to do anything with these files and they suggested giving you a generic Boeing checklist.
Apologies for these issues,
Best regards,
Simulator Operations Supervisor Boeing Flight Services Gatwick Campus RH10 9AD Tel Mob Fax * mailto: Oboeing.com
From: Boeing Employee Sent: 20 February 2017 01:18 To:
Hi
Tried loading the latest ECL 3114-BFT-001-6A into MODA with the following MODB options:
3166-BFT-004-00 3118-BFT-002-H0 3163-BFT-002-30 3164-BFT-006-00 3165-BFT-007-00
But could not get their ECL to work with any of them MODB options.
Regards,
Senior Simulator Technician Boeing Flight Services Gatwick Campus Decing.com

See below for the reply from my Tech who tried to load the GE checklist over the weekend.



From
Sent: 19 February 2017 05:54
To: @boeing.com>
Subject: RE: 777 ECL COC update request
Hello
Thanks for information, waiting for update.
Brgds,
From: @boeing.com
Sent: Friday, February 17, 2017 6:42 PM
To: Boeing Employee
Cc: [Boeing Employees
Subject: RE: - 777 ECL COC update request
Hello
We are still having issues getting any of the checklists we have been sent to work. One of the guys is going to try
this AIMV2 BP17.1 GE version that you sent over the weekend with all the different MODB LSAPS that we already
have as I believe the MODA part you are sending needs to be compatible with a MODB part to give a working
ECL. Currently with this checklist fitted we just get a 'Checklist Unavailable' message. I did ask Seattle to
see if they could generate an AIMS2 BPV17 version of the RR ECL we previously were sent as there will
obviously be issues around engine failure drills etc even if we do get the GE checklist to work.
Destruction and I have to have better some feature and used.
Best regards and I hope to have better news for you next week,
Singulator Operations Supervisor
Simulator Operations Supervisor
Boeing Flight Services Gatwick Campus RH10 9AD
Tel
Mob
Fax
mailto: @boeing.com
<u>mano.</u>
Erom!
From:
Sent: 14 February 2017 04:56
To:
Cc: @boeing.com>;
@exchange.boeing.com>; @boeing.com>;
Subject: 777 ECL COC undete request
Subject: - 777 ECL COC update request

Hello			
I recall that our previous ECL (Electronic Checklist) COC files upload was not successful.			
We have a simulator trainings scheduled starting 15, March 2017. These trainings absolutely need to be accomplished with our ECL.			
Attached ECL files that are compatible with Simulator AIMS-2 v17.1 GE Engines, latest revision (revision 34). In addition, attached the Technical Newsletter.			
Please upload simulator and advise if all is running properly.			
Regards			
Email secured by T Security			

-		
From:	m: Boeing Employee	
To:	Boeing Employee	
Sent:	6/1/2018 9:24:56 AM	
Subject:	RE: MAX Simulator Program	
	saying, so I am willing to be the a-hole here and highlight this and call the Senior Leadership out for	
creating this cultur	·e.	
	oplier side, someone made our bed so we just got to make the best of it and make sure we don't let the	
same things happe	en again else, why waste our time doing an AAR.	
former to the control of		
	with you on Monday and discuss it and then I will let the team know that this type of behavior is	
unacceptable.		
<u>.</u>		
<u></u> j		
y-north-orthography		
From: Boein	ng Employee	
Sent: Friday, Jur	ne 01, 2018 9:20 AM	
To:	බුboeing.com>	
L	AX Simulator Program	
Cubjecti IVE: IVI	V. Cilification in Togram	
At this point I this	nk there's significant risk that the LGW MAX device will not be granted an iLC extension and will	
	tion by regulatory decision, not ours. Not being granted an extension on that device would have	
significant impac	et for	
A o for why a com	le are veting use evenuene has it in their head maeting ashedule is most important because	

As for why people are voting yes.... everyone has it in their head meeting schedule is most important because that's what Leadership pressures and messages. All the messages are about meeting schedule, not delivering quality. We managers were told names were being taken by senior leadership at the level D Go/NoGo meeting, now referred to internally as the Go/Go meeting. Sometimes there are understandable reasons why we have schedule pressures - such as major impacts to customers. But not always. Take iLC decisions – we had practically no customer training on the device to now. But not looking bad by missing schedule was more important and we missed the opportunity to fix things when there was low impact.

We put ourselves in this position by picking the lowest cost supplier and signing up to impossible schedules. Why did the lowest ranking and most unproven supplier receive the contract? Solely based on bottom dollar. Not just MAX but also the 777X! Supplier management drives all these decisions – yet we can't even keep one person doing the same job in SM for more than 6 months to a year. They don't know this business and those that do don't have the appropriate level of input.

Also, that voting list is full of people voting for their self-interests. Binary was voting yes because 'binary is good'. Sim Support voted yes because 'level D Data package is huge improvement over level C'. New Programs voting yes because they need to make schedule and they believe the device will make it through qualification. Very few people are actually voting understanding the entirety of the decision including customer quality and long term maintainability of the specific device we are accepting. We haven't even fully checked the requirements TRU is supposed to meeting.

I don't know how to fix these things... it's systemic. It's culture. It's the fact that we have a senior leadership team that understand very little about the business and yet are driving us to certain objectives. Its lots of individual groups that aren't working closely and being accountable. It exemplifies the 'lazy B'. Sometimes you have to let things fail big so that everyone can identify a problem... maybe that's what needs to happen rather than just continuing to scrape by.

Best part is we are re-starting this whole thing with the 777X with the same supplier and have signed up to an even more aggressive schedule!

From: Boeing Employee	
Sent: Thursday, May 31, 2018 11:25 PM	
To: oboeing.com >	
Subject: RE: MAX Simulator Program	
For the most part I agree. But I have to ask, who has said we had to proceed? Who from leadership had said we had to meet some level of approval on the Singapore device? On the Miami one, I understand (don't agree) why they decided to move forward, but why do we allow this to happen?	
I look at who agreed to proceed to level C with EASA on the list and I see a whole slew of people that are not (quote) Leadership yes they voted yes. You and said no, but et.c. etc. said yes. So who drove this to say yes?	
I understand your feeling and I want to help address the root problem, but the supplier selection is done. It isn't something we have the luxury of going back and doing over. The Quality of Boeing data packages, okay, how do we fix it? I am not advocating or defending our situation, but I have yet to see someone tell me that we need more resources, etc. etc.	
At this point, I am hearing your gripes, acknowledge they have validity, so let's address this.	
I am all for saying "NO" to proceeding with any activity with Shanghai or Gatwick Max, so let me know how I should say no. I can cite all the below, but I will immediately be asked, because I would if I heard someone say this, how do we fix it.	
So, I'm accepting the responsibility to say "no" but you need to help me address what happens after so that we can get to "yes".	
From: Boeing Employee Sent: Thursday, May 31, 2018 11:13 PM To: @boeing.com>	
Subject: FW: MAX Simulator Program	

For reference – this evening the Singapore EASA level D qualification was downgraded to level C as sound objective tests could not pass. It was completely unnecessary, and frankly embarrassing on the part of Boeing and TRU. A lot of the below is down in the weeds but adds depth to a clearly visible problem that we have systemic organizational issues causing us to unnecessarily spend enormous amounts of effort (=\$\$\$) to end up with poor quality products and pat ourselves on the back about it.

It starts from our supplier selection process (or lack of) and continues to how we manage the supplier, the quality and support of Boeing data packages, substandard/non-existant requirements management, lack of resource staffing, lack of the right resources, lack of accountability, and hybrid ownership of programs/projects. It ends with our repeated decisions to push products into the field to meet *often arbitrary* schedules despite suppliers not delivering on commitments and clear quality concerns. At any point on this program (IPA, iIC, leveID) we could have stopped this by standing firm on a commitment to quality until the program was where it need to be. However we continued to bend to leadership pressure and allowed ourselves to shoot for the lowest possible bar of 'We think the regulator will qualify the device'.

From: Boeing Employee	
Sent: Thursday, May 31, 2018 9:45 PM	
To:	<u>@boeing.com</u> >;
@boeing.com>	
Cc:	@boeing.com>
Subject: MAX Simulator Program	
-	

Would it be possible to arrange for some form of after action review to determine what is causing the MAX simulator program to press on regardless of the risks to the Boeing brand? Any such review should consider the systemic failures in leadership, preparation, and communication that are squandering thousands of dollars of Boeing finances and impacting the critical functions performed by the Flight Technical and Safety pilots for whom a simulator acceptance/testing is a minor part.

Consider the following, in the last 30 days:

- 1) Miami FAA Level D qualification was scheduled for March it was achieved in late May.
 - a) Between these dates 100-150 DRs alone were closed.
 - b) The Boeing VDR has had more than 30 tests updated since release resulting from SDSRs
 - c) The sound data package released to industry was unacceptable
 - d) Functions and Subjective testing was only signed in mid-May on the third attempt and even then, critical issues were downgraded
 - e) 115 DRs were declared to the regulator at the time of qualification [100 others exists]
 - f) The air conditioning issues identified in August last year were not resolved until the last minute resulting in TRU charging Boeing for multiple visits to site to retune the sound
 - g) Temporary air conditioning blower fans were reluctantly purchased to boost airflow and Boeing are now having to purchase a CVAC from TRU which will require setup, and retuning of the sounds and another visit to assess subjectively and objectively.
 - h) The campus failed to provide the correct information to the regulator.
 - i) The campus failed to communicate the correct qualification dates to anyone on the MAX program resulting in airfare change fees of up to \$5000. A result of this delayed travel to Singapore by 1 day. Subsequent and unpredictable ATC delays further delayed travel by 18 hours.
 - j) The regulator was extremely upset to be asked to qualify a device with so many declared defects and documented this in their report. Worse, they felt that Boeing did not have a handle on the DRs and took the decision to transfer TDMS DRs into their report to permit them to stipulate time frames for rectification
- 2) Singapore EASA Level D / CAAS Level VII Qualification
 - a) Miscommunication regarding F&S dates resulted in having to change flights twice
 - b) Fortuitously, the CAAS qualification dates slipped by 2 weeks. Had the original schedule been adhered to, the travel delays documented in item i) above resulted in the acceptance team arriving at 0030 on the morning of day 1 of the qualification. There would have been no time to complete F&S checks
 - c) The F&S checks were not signed at the time of QTG submittal due to there being too many hardware issues on the device. These had been known to exist for 2 weeks prior to the commencement of F&S testing but nothing had been done to resolve them until the issue was escalated.
 - d) Sound tests were submitted 30 days prior to qualification with failing results. Nothing was done to resolve the sound problems until the issue was escalated on day 1 of what would have been the CAAS qualification
 - e) Sound was only made to be marginally acceptable for Level C qualification on day 4 of the planned qualification. Until then, the device would have been limited to Level IV under CAAS a downgrade from Level VII
 - f) Sound still does not pass objectively and is ermains obviously different to the Miami device on day 5 of the planned qualification. Only now are the campus taking note of the fact that it may be a facility issue [and I found leaking air lines behind two of the devices which contribute to the ambient simulator hall noise]. TRU could not get the tests to pass the campus believe that this may be associated with the CVAC or compressor on the adjacent Mechtronix NG but the failing results were

- obtained with that device completely powered off.
- g) Nothing still has been done to satisfactorily resolve the sound issue. TRU did not send an engineer when requested, nor did they send hardware engineers they were already in Singapore to work at the Airbus training centre. At this point, there is no requirement for to be on site, particularly when his group is already stretched due to customer commitments and accident investigations
- h) The Go / No Go decision to proceed with qualification was based on schedule, nothing more. I do not believe the device will fail Level C qualification, but the fact that we are going for Level C is a failure in itself [although Boeing will not consider it so]. We will be left with a QTG that needs to be updated, a device with 160 DRs on it, and the inconvenience of having to reschedule and finance another special evaluation.
- i) Last year, in an inferior load, DR manipulation resulted in the declaration of 42 issues. This year, in an improved load, we have already declared double that number nobody has considered how this will be explained. Plausible arguments such as "we have tested this using every level of documentation available" will be presented, however, there is no rebuttal for the regulator counterpoint stating "why did you not use these before".
- j) The Singapore campus has documented problems with the quality of support they are provided with by TRU this is not likely to change
- k) The Singapore campus did not come close to meeting sustainment goals during the iLC process. Do we believe they will achieve this during Level D?
- I) The Industry will now know that Boeing failed to qualify one of its own devices with its own product to Level D standard – given the anti-binary sentiment in the industry, how will the impact of this be perceived particularly given the failure is not Binary related?
- m) Level C qualification with the number of outstanding issues is not guaranteed

We now have to determine how to approach the UK CAA for an extension to the iLC qualification – they will have been contacted by EASA to indicate that there are significant numbers of outstanding issues in the Level C/D load – their experience will lead them to appreciate that there must be considerably more in the iLC load and they will have to seriously look at whether the device is in an acceptable condition to permit the certificate to be extended [note the decision was taken to not declare all issues across all devices even when we knew them all to be impacted because the Device Managers objected so the current list in TDMS is misleading].

Time and time again, we are inundated with Boeing material specifying quality is key – this clearly is not the case or driving factor in any of the decisions that are made. Lessons learned continually say we should not accept inferior quality products because there is an unnecessary and costly overhead associated with doing so, but here we are, immediately prior to qualification, dealing with an issue that was documented weeks ago, and now accepting a reduced qualification level [read failed] as a result. Nobody seemed to consider in the meeting today that a qualified device that goes unused is almost as useless as non-qualified device. Given that the 737-8 is a common type rating, why would a customer pay the elevated price to use a MAX simulator when there are dozens of Level D qualified 737 devices across 6 continents? Has this lesson not been learned in the MAX classroom?

Until an open and frank discussion takes place, the same errors, wasted opportunities, and financial losses will continually be absorbed.

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