From:	Boeing Employee	
To: CC: Sent: Subject: Attachments:	Boeing Employees 2/26/2013 12:48:44 PM RE: Synthetic Airspeed 737 Unreliable airspeed version 25 .pdf	
This is the letest droft; h	power we are far from validating this as the final varsion of the Airpood Unreliable	
checklist.	nowever, 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 tem Non-Normal Checklist. If synthetic airspeed is standard as opposed to an option, the Program directive to maintain Level B training for our customers.	
l've included	who is the lead Tech Pilot for the MAX.	
	ems SAM call today, to listen to the proposal for the new I-ADIRU for the MAX, and brought 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 Airsp	26, 2013 10:36 AM	
Do you have a copy of I've seen that one yet.	what the 737's Airspeed Unreliable checklist will be as a result of the SRP? I don't think	<
	implement synthetic airspeed on the 737, particularly since it doesn't have so	o the
Flight Deck Crew Opera	ations	
	1	

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		
Hi all,			
250 cm s 300 cm c 30 50 cm c 30 50 cm c 30 50 cm c 50	phics questions that I plan to start the debrief with. This is considered the minimum set, and nore details on their answers, depending on what they say.		
	lws an outline of what questions are to be asked of each condition. For the no-RCAS howing them details of RCAS after their flight and ask about their perceptions of its design		
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 Facto Boeing Commercial Airpl (office) (work cell)	anes		

From:	Boeing Employee
То:	Boeing Employee
Sent:	7/23/2014 7:43:31 PM
Subject:	RE: RCAS testing of training
manufacturer's min trair	e box we're painted into with the Level B training requirements. Remember, this is just the ning required. Operators can elect to make the training more robust.
A bad excuse, but what	I'm being pressured into complying with.
737 Chief Technical Pilo Desk Mobile	t BOEING EDGE
BOEING	Flight Services
From: Boeing Employee	
Sent: Wednesday, July 2	3, 2014 7:11 AM
<b>To:</b>   Boeing Employee   <b>Subject:</b> RE: RCAS testin	ng of training
,	.g
Thanks. I fear that skill reliant on automation.	is not very intuitive any more with the younger pilots and those who have become too
From: Boeing Employee	2014 0 27 PM
Sent: Tuesday, July 22, 2 To: Boeing Employee	2014 8:27 PM
Subject: RE: RCAS testin	ng of training
engine out operations a changes. The path forw pointing the crews to the Level B. We need to s	by with Level B, and the ROLL/YAW ASYMETRY will most likely be seen frequently during a people don't have the plane in trim when coupling the autopilot and make speed/configward we determined in flt tech was to only have a condition statement, with the training a FCTM guidance regarding proper trim technique. This is the path with the least risk to ell this as very intuitive basic pilot skill. That the alert is just drawing your attention to the 's our only chance of Level B.
thanks,	

737 Chief Technical Pilot  ~ Desk ~ Mobile
BOEING BOEING 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 EDGE Flight Services
From: Boeing Employee Sent: Wednesday, July 16, 2014 1:43 PM

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 BOEING EDGE Flight Services

From:	Boeing Employee	
To:	Boeing Employee	
Sent:	12/18/2014 12:28:37 PM	
Subject:	RE: Tomorrow	
Except of course if we	lose Level B which will be thrown squarely on my shoulders. It was yes! Who	
	llions of dollars! Burn him at the stake! Oh well, someone will have to pay	
r		
	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	
in less than a yea	r would SERIOUSLY suck.	
Oh well, we'll get through	gh whatever challenges we face. GET 'ER DONE!	
737 Chief Technical Pilo	ot end of the control	
∼ Desk ∼ Mobile		
i modile		
~	BOEINGEDGE	
BOEING	Flight Services	
-		
From: Boeing Empl	loyee	
Sent: Thursday, Decemb	per 18, 2014 12:24 PM	
To: Boeing Employee		
Subject: Re: Tomorrow		
Cool, the bribes we p	paid to keep you in the group worked!	
	e you'll be able to write your own ticket.	
Sent from my BlackE	Berry 10 smartphone.	
From: Boeing Employee		
Sent: Thursday, December	per 18, 2014 12:03 PM	
To: Boeing Employee Subject: RE: Tomorrow		
Subject: NE. Tomorrow		
Sounds good, cya tom-	orrow.	
The standard design and the standard st		
FYI, I'm not getting the	2 <sup>nd</sup> interview, so you're stuck with me	
737 Chief Technical Pilo	ot	
~ Desk		
~ Mobile		
( BOEING	BOEINGEDGE	
Ex-	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.	RE. Concerns with Training Development proposal for MAX
acknowledged there is s the flat panel trainer are	discussion with TD and the larger team, I am fine with the path their on. Everyone come risk to the new style of training, but it shouldn't be a show stopper. My concerns with alleviated, only by the fact that they must develop some sort of device for the full transition bidable, it is a risk we must live with for level B differences course for NG to MAX.
Thank you,	
737 Chief Technical Pilo	t
~ Desk ~ Mobile	
BOEING	BOEING EDGE Flight Services
	Tigit Odivices
From: Boeing Employee  Sent: Tuesday, April 21,  To: Boeing Employee  Subject: Re: Concerns w	2015 11:00 AM ith Training Development proposal for MAX
Thanks,	
Please let me know v	hat you think after you visit with
Best,	
1	
Chief Pilot - Boeing F	light Services
Mobile	
Executive Assistant	
From: Boeing Employee Sent: Tuesday, April 21, To: Boeing Employee	
Subject: KE: Concerns w	rith Training Development proposal for MAX
	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 just have to accept the fisk of

Thank you, 737 Chief Technical Pilot ~ Desk Mobile From: Boeing Employee Sent: Friday, April 17, 2015 6:07 PM To: Boeing Employee Subject: RE: Concerns with Training Development proposal for MAX paints this in a very positive light, so he didn't really do much to highlight your As you would expect, concerns. What I would like would be for you to get together with and probably and/or to make sure that all of us in Flight are speaking with a common voice. Please include 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 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. First, I have concerns with moving away from a predominantly CBT-based training course, which has been the

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

argument for them to do so, but that doesn't mean they won't try.

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 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.

Thank you,	
737 Chief Technical P	ilot
~ Mobile	
Ø BOEING	BOEING EDGE Flight Services

From:	
1994 (1996 (	Boeing Employees
To: Sent:	8/18/2016 8:11:57 AM
Subject:	RE: MAX Differences Training approved at Level B!!!!!
being developed in AEG to re-write it,	be less than 4 hours. We don't define times in the FSB, only the training level. The FSB is the near future. There is a new FSB format, and we'll be working collaboratively with the to include incorporation of the MAX into it. The draft won't be ready until after type cert in the expect the comment period and everything to be done by the end of the year.
OSD report. The C	ed the FAA/TCCA's findings, so the EASA requirement will be the same, as written into their CAAC has already said they'll accept the FAA's findings. We'll probably have to go to other the world to jedi-mind trick them into accepting the FSB findings, but that shouldn't be hard.
737 Chief Technical	 Pilot
<u> </u>	
BOEIN	
From: Boeing Er Sent: Thursday, Au	nployee   ugust 18, 2016 7:54 AM
To: Subject: RE: MAX	@boeing.com>; @boeing.com> Differences Training approved at Level B!!!!!
	netheless, it is 1-training-day (union and non-union alike – haha). Is the training 'footprint' in stage (1-training day)? Is the FSB report in the public comment stage or has that already
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 details. This is a big part of the operating cost oduct marketing decks, and is at the heart of \$\$\$ anaylses.
Again, NICE JOB!!	
From: Boeing Em	ployee
Sent: Wednesday,	August 17, 2016 1:43 PM
To:	@boeing.com>; @boeing.com>
Cc:	<pre>@boeing.com&gt;;</pre>
	@boeing.com>; @boeing.com>; 11

<u>@boeing.com</u> > <b>Subject:</b> RE: MAX Differences Training approved at Level	BIIII
Subject. NE. MAX Differences Training approved at Level	Billi
The training is running under 3 hours. We will make some hours (call it less than 4 if you want to be conservative). Nowere identified by the regulators. That's the whole point of	lo special currency issues or formal checks of any sort
737 Chief Technical Pilot	
Ø BOEING	
(LEEZINE)	
From: Boeing Employee	
Sent: Tuesday, August 16, 2016 3:43 PM	
To: <u>@boeing.com</u> >;	@boeing.com>
Cc: @boeing.com>;	boeing.com>;
@boeing.com>;	@boeing.com>;
@boeing.com>	<u>(wboeing.com</u> *,
Subject: RE: MAX Differences Training approved at Level	BIIIII
Hey,	
RIGHT ON!! So the devil is in the details: Do we have 1-	day of CBT endorsed and in stone by FAA (AEG)?
And, just to confirm, there are absolutely no formal checks and MAX you can be away from an NG for 30-years at	그 보다 그 사람이 살을 가는 그 사람들이 살아보고 있다면 가장 그는 그들은 그들은 그를 가장하게 하는 그 사람들이 가장하게 되었다. 이렇게 되었다.
Yep, those are the details us product marketing twits need	to know! LOL.
CONGRATS to you and your MAX team, I remer from flight training, technical, & standards (as we were cal when the FAA had come down with their provisional approx	led in those days) went out and got really DRUNK
THEN, we got really DRUNK when the JAA (now EASA) a	pprovals came in!!
GOOD on you all!!	
CONGRATS!!	
and the BCA Product Marketing Team	
From: Boeing Employee	
Sent: Tuesday, August 16, 2016 2:48 PM	
To: @boeing.com>	/ \
@boeing.com>;	@boeing.com>;
@boeing.com>;	<u>@boeing.com</u> >; <u>@boeing.com</u> >;
@boeing.com>;	@boeing.com>;
@boeing.com>;	
@boeing.com>;	@boeing.com>;
@boeing.com>;	@boeing.com>; 12

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@boeing.com>;	@boeing.com>;
@boeing.com>	
Cc: @boeing.com>;	@boeing.com>;
@boeing.com>;	@boeing.com>;
@boeing.com>;	@boeing.com>;
@boeing.com>; @boeing.com>;	@boeing.com>;
@boeing.com>	<u>@boeing.com</u> >, [
Subject: MAX Differences Training approved at Level B! Importance: High	
All,	
I'm happy to inform you that we successfully passed the establishing the 737MAX as the same type rating as the (Computer Based Training, CBT) differences training beto	737NG, and requiring no greater than Level B
This is provisional approval, pending final Part 25 Type C changes to the airplane. The FAA will be sending us a P documenting the Joint Flight Operations Evaluation Board and EASA are now considered to have accepted this Lev	rovisional Approval letter within the next 2 weeks, d acceptance of this finding. FAA, Transport Canad
This culminates more than 3 years of tireless and collabor Technical, Flight Technical Data, Training Development, Flight Test Engineering and of course	
CAS Communications and 737 Program Communications receipt of the FAA's provisional approval letter.	s are jointly crafting a BNN article to be released up
Thank you again for all your collective support.	
737 Chief Technical Pilot	
( BOEING	

From: To:	Boeing Employees
Sent:	6/5/2017 8:02:55 PM
Subject:  Welcome to my world,	RE: 737 MAX ATB/RTL FOTB  the never-ending nightmare
737 Chief Technical Pilot	
Ø BOEING	
From: Boeing Emplo Sent: Monday, June 05 To: Subject: RE: 737 MAX	5, 2017 8:02 PM @boeing.com>
I am sorry to hear that.  From: Boeing Employe	e
Sent: Monday, June 05 To: Subject: RE: 737 MA	5, 2017 8:01 PM @boeing.com>
I'm putting out fires with ARGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	h the who suddenly think they need simulator training to fly the MAX! GGGGGGGGGGGGGGHHHHHIIIIIIIIIIIIIIIIIII
737 Chief Technical Pilot	
From: Boeing Employ Sent: Monday, June 05 To:	5, 2017 7:59 PM  @boeing.com>
Subject: RE: 737 MAX	
From: Sent: Monday June 05	3. 2017 7:57 PM

To:	@boeing.com>	*3		
Subject: RE: 737 MAX ATB/F				
VA //				
Why are you still working at 8p	m7777 STOP!!!			
737 Chief Technical Pilot				
<del> </del>				
BOEING				
EL LINE				
From: Boeing Employee	7.E7 DM			
Sent: Monday, June 05, 2017 To:	@boeing.com>;		@boeing.com>	
Cc:	@boeing.com>;		@boeing.com>	
Subject: RE: 737 MAX ATB/F				
Thank you				
Francis (B. V. F. I.				
From: Boeing Employee Sent: Monday, June 05, 2017	7:56 PM			
To:	@boeing.com>			
@boeing.c				
Cc:	@boeing.com>;		@boeing.com>	
Subject: RE: 737 MAX ATB/F	RTL FOTB			
The 230pm time tomorrow you	u sent via calendar invite wor	ks for me. Laccented		
The Zeophi and temenon year	a cont via calonidal little wor	no for the raccopted.		
737 Chief Technical Pilot				
() BOEING				
From: Boeing Employee				
Sent: Monday, June 05, 2017	5·13 PM			
To:	@boeing.com	>;[	@boeing.com>	
Cc:	@boeing.com>;	2.2. В положения	@boeing.com>	
Subject: RE: 737 MAX ATB/F	RTL FOTB			
Hello ,				
1 10110				
I am looking at scheduling a meet have reviewed the bulletin, and ha		some Aero staff and some cussed in a meeting situation		We
I have a hard time finding an oper to this discussion I would like to s			Since Flight Technical is esse	entia
Hello ,	Neuropean series series			

Thank you,			
From: Boeing Employee			
Sent: Monday, June 05, 2017 5:01 PM	1		
To:	@boeing.com>		
Subject: RE: 737 MAX ATB/RTL FOT	В		
How is your FOTB review coming? Do y	you have an estimate as	to when you will have a resp	oonse? There are
several people on the distribution list f more sense for you to coordinate with	rome is email, and ne	asked everyone review if, b other FLOE people? Or do vo	out does it make
want to do their own mark-up version		omentor peoples of do yo	Of It III IK II I'V WIII GII
man to do mon of the order			
From: Boeing Employee			
Sent: Friday, June 02, 2017 3:43 PM			
To: 0	boeing.com>;	<u>@b</u>	oeing.com>;
	@boeing.com>;		@boeing.com>;
	@boeing.com>	,	
Cc:	@boeing.		
@boeing.com>;		@boeing.com>;	
@boeing.com>:		@boeing.com>;	
<u> </u>			boeing.com>;
@boeing.com>;	<b>-</b>	@boeing.com>	,
Subject: RE: 737 MAX ATB/RTL FOT	ь		
].			
L			
I have reviewed and made commen	its in the attached copy o	of the draft, some of which sh	ould address the
CS-AWO 2.5% gradient implication tha	ıtand   realized éar	tier today. We still have some	e other people
needing to review it, so this isn't neces			
changes and send a new draft out fo			
FOTB and are trying to focus on the de	etails at this point. And the	ey are a bit hard to see in this	current markup
form.			
<u></u>			
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>;		@boeing.com>;	
@boeing.com>;		UNION OF THE PROPERTY OF THE P	boeing.com>;
@boeing.com>;		@boeing.com>	<b></b>
Subject: RE: 737 MAX ATB/RTL FOT	В		

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

	7		
t 737 Chief Technical Pilo	-J <del>1</del>		
737 Chiel Technical Pho	r		
	. <u></u>		
<del>~</del>			
BUEING			
_ (Bo/or Foots			
From: Boeing Emplo			
Sent: Friday, June 02,			
To:	@boeing.cor		<u>@boeing.com</u> >;
		ng.com>;	<u>@boeing.com</u> >;
	<u>@bc</u>	oeing.com>	
Cc:		@boeing.com>;	
@bo	eing.com>;	@boeir	ng.com>;
	ooeing.com>;	@boe	eing.com>;
	eing.com>;		@boeing.com>;
100 100	@boeing.com>;	@bor	eing.com>
Subject: RE: 737 MA			
Cubjecti (CE: 707 III)	AATEMATETOTE		
Another note from my	perspective after a recent	chat with	
Another note from my	perspective after a recent	chat with	
1171	1 CDT	11 1 12 24	
the state of the part of the state of the st		ally checking with our go-around	
10 1 10 10 10 10 10 10 10 10 10 10 10 10		at was implemented to satisfy the	and the second s
to some other name I	can't remember right now)	requirement that operators ensure	e that airplanes can meet a
minimum of 2.5% go-	around gradient or a higher	value if published by the airport	authorities. This option sits on
		l landing climb limits and, as you	
		s that have adopted EU-OPS requ	
		this check, as it's the only way the	en can check go-around
performance at those	airports that are more challe	enging.	
For those operators th	at elect not to implement th	ne go-around check, they would u	maffected by the above
		approach and landing climb limi	
go-around issue, out v	vodia sim nave then normal	approach and landing chino min	its effected.
,			
<u> </u>			
From: Boeing Emplo	yee		
Sent: Friday, June 02,			
To:[	@boeing.cor	n>· !	@boeing.com>;
i		ng.com>;	@boeing.com>;
		peing.com>	taboeng.com-,
Co.	<u> </u>		
Cc:	oing com>:	@boeing.com>;	
	eing.com>;		ng.com>;
	oeing.com>;	<u>@boe</u>	eing.com>;
	eing.com>;		@boeing.com>;
	@boeing.com>;	<u>@boe</u>	eing.com>
Subject: RE: 737 MA	X ATB/RTL FOTB		
Hi ,			

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

L	
From: Boeing Employee Sent: Thursday, June 01, 2017 4:09 F	PM
To:	r@boeing.com>;
	@boeing.com>;
Cc:	@boeing.com>;
@boeing.com>;	@boeing.com>;
@boeing.com>;	@boeing.com>;
<u>@boeing.com</u> >; @boeing.com>	@boeing.com>; @boeing.com>;
@boeing.com>	<u>coboeing.com</u> >,
Subject: RE: 737 MAX ATB/RTL FC	OTB
agreed to, based on Flight Technical's least with EASA MAX customers) und need to get it to EASA customers so procedure until we get that approved, else).  I have many comments/questions that	have all serious recommendations. It assumes that we elect to hold off on publishing this (at til we have both the 15/1 and 30/5 SPs approved with EASA. If we decide we oner, we can revisit and edit this as needed (i.e. remove reference to the 30/5 or maybe send out 2 separate FOTBs, one for EASA, one for everyone at need reviewed/answered, and please do review the deletions and additions gree 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	
From: Boeing Employee Sent: Thursday, June 01, 2017 11:05	AM
	@boeing.com>;
	@boeing.com>;
@boeing.com	
Cc:	@boeing.com>;
@boeing.com>; @boeing.com>;	@boeing.com>; @boeing.com>;
@boeing.com>;	@boeing.com>;
@boeing.com>	<u> </u>
Subject: 737 MAX ATB/RTL FOTB	
	yesterday's ATB/RTL discussion between Aero and Flight Technical. I have ber the action items; I will send a follow-on note with more info.

From:	Boeing Employee
To: Sent: Subject:	@faa.gov'; @faa.gov 2/9/2018 8:59:20 AM RE: Template question
ş	head that effort on the 787-10!!!! Go Go!
737 Chief Technical Pilot	
BOEING	
From: @fa Sent: Friday, February To: Subject: RE: Template	@boeing.com>; @faa.gov
timing. I think un	w if I have the skills to jedi mind trick 280 until we have a lull in revision til the MAX evaluations are complete, we don't have a dog in that fight ence we have set already.
Aviation Safety Inspector, O FSB/FOEB Chair B-737 Seattle Aircraft Evaluation	
us know how we did. Select Large Transport Airc	seek to improve the services we provide. Please take a few moments to visit the website shown below to let rraft Seattle AEG from the pull-down menu before writing your comments. Thank you. out/office_org/headquarters_offices/avs/stakeholder_feedback/afx/afs100/
We will be moving to a me:	new building on Feb. 26th. As of Feb. 26th please use the following information to contact
From: Sent: Friday, February To:	@faa.gov>; @faa.gov>
Subject: RE: Template	r question

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. <a href="https://www.faa.gov/about/office_org/headquarters_offices/avs/stakeholder_feedback/afx/afs100/">https://www.faa.gov/about/office_org/headquarters_offices/avs/stakeholder_feedback/afx/afs100/</a>
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.

FSB/FOFB Chair B-777/787
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. <a href="https://www.faa.gov/about/office">https://www.faa.gov/about/office</a> org/headquarters offices/avs/stakeholder feedback/afx/afs100/
From: FAA Employee (FAA)
Sent: Thursday, February 08, 2018 3:07 PM
To: <u>@faa.gov</u> >
Cc: @boeing.com>
Subject: FW: Template question
, 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/
We will be moving to a new building on Feb. 26th. As of Feb. 26th please use the following information to contact me:
From: <u>@boeing.com</u> ]
Sent: Thursday, February 08, 2018 1:38 PM
To: <u>@faa.gov</u> >
Subject: Template question
Hi [
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: Subject:	4/24/2018 8:24:12 AM RE: BBJ 8 flight test update
Зивјест.	NE. BB0 6 hight test update
give them the pro we propose is ac	nook for making the training level determination for each new sub-model. Usually they require us to posed differences training, then go fly the airplane to prove to themselves the minimum training sceptable IAW AC 120-53B. I was able to jedi mind trick them that there is enough commonality ne -800 BBJ, that they could just do the -8 BBJ by analysis. Same for EASA and TCCA. It's all
737 Chief Technica	Il Pilot
() BOEII	V <i>G</i>
h	Employee
To:	pril 24, 2018 8:20 AM @boeing.com>;
[	@boeing.com>
Subject: RE: BB	J 8 flight test update
It was busy, no do	oubt. What did AEG want to flight test??
From: Boeing I Sent: Tuesday, A To:	Employee   April 24, 2018 8:18 AM @boeing.com>;
A THE REPORT OF THE PARTY OF TH	<u>@boeing.com</u> > J 8 flight test update
	ammed 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	Il Pilot
BOEII	V <i>G</i>

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

To: [	boeing.com>;
@boeing.com> Subject: RE: BBJ 8 flight test update	
Hi []	
1C001, first BBJ MAX 8, completed all B and for aux tank STC and we will flight test in July Completed the following in flight test here at C5.04.AAJ – FMCS Polar Region Demo C5.15.ABA – Airstair Flight Deck Indication C5.08.AAE – ISFD with ANAV Demo C5.15.AAZ – Advisory Ice Detection System	KBFI -
From: Boeing Employee Sent: Monday, April 23, 2018 3:49 PM	
To: [	@boeing.com>;
Hey guys, haven't heard anything about the track? When is the flight test supposed to fin	8 BBJ flight test lately. Did you guys have first flight? Program on ish for it?
Thanks,	
737 Chief Technical Pilot	
()_BOEING	

From:	Boeing Employee
To: CC:	Boeing Employees
Sent:	6/12/2015 4:42:02 PM
Subject:	RE: Slide For RCAS Training Wording
there isn't a difference b	ne 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	BOEINGEDGE Flight Services
From: Boeing Employee Sent: Friday, June 12, 20 To: Boeing Emp Cc: Boeing Emp Subject: RE: Slide For Ri	loyees
Hi	
I am a bit slow.	
So CBT is planned for i	in 2016 for NG pilots taking 737 MAX in 2017 to eliminate differences training, correct?
Why only 1 NG is require RCAS?	red for RCAS active and not an entire in-service NG fleet before taking their 1 <sup>st</sup> MAX with
Regards,	
Business Development	
Modification Services	
Boeing Commercial Airpla	ine

www.boeing.com\modservices

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From: Boeing Employee

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

To: Cc:	Boeing Employees
Sub	ject: 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.

	1
737 Chief Technical P	ilot
BOEING	BOEING EDGE Flight Services

From: Boeing Employee

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

Cc: 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

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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
BOEING BOEING EDGE 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

www.boeing.com\modservices

**Modification Services** 

Boeing Commercial Airplane

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From:	Boeing Employee
To: CC:	Boeing Employees
Sent: Subject:	3/28/2017 9:00:58 AM RE: Flight Transition costs
transition from NG to M 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 MAX is so difference.	ortance of holding firm that there will not be any type of simulator training required to AX. Boeing will not allow that to happen. We'll go face to face with any regulator who triesent. If a particular customer wants to add additional training due to concerns with their rel of their pilot group, then that is an internal issue to that airline. But in actuality that does limited to perhaps requiring the first officers first flight on the MAX to be with a captainnee, or maybe like what
From: Boeing Employe Sent: Friday, March 24,	
To:	Boeing Employees
Subject: RE: Flight Tra	nsition costs
them on board with the	oker a meeting between our Flight Tech group (and co) and TTCAA, to get guidance from the FAA (ie. no Check needed).  Ind most countries defer to what the FAA does (except for the National Authorities that are
Thanks,	
From: Boeing Employe Sent: Friday, March 24,	<del></del>
To: Cc:	Boeing Employees
l <u> </u>	
Thanks	28

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: Docined Employees
Boeing Employees
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  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 29

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		rews
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.

_ 3		
Thanks		
Sales Director, Africa & Caribbean	Boeing Commercial Airplanes	
This a position then deal only for the above address	and It may contain with lead information If you are not the	

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

From:	Boeing Employee		
To:	Boeing Employees		
Sent:	6/7/2017 3:47:26 PM		
Subject:	RE: MAX LEVEL B DIFFERNCES SOLUTION		
	egotiate piece in the Middle East next. Goes to show what a little bit a accurate info can		
do to sway an operator	in the right direction		
From: Boeing Employee Sent: Wednesday, June To: Boein	<sup>2</sup> 7, 2017 10:01:41 AM		
Subject: FW: MAX LE\	/EL 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			
<b>DEING</b>			
From: Sent: Wednesday, June	07. 2017 12:12 AM		
To: (			
Cc:	j		
Subject: Re: MAX LEV	EL B DIFFERNCES SOLUTION		
Dear			
source for transition trai Those presentations yo Regarding CAT II/ CAT training material ?	sentations and I accept and agree the training requirement for Boeing Max as CBT is ning from B737800 to Boeing Max.  u 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: @boeing.com>
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
Ø BOEING
From: Sent: Monday, June 05, 2017 9:33 PM
To:
Subject: RE: MAX LEVEL B DIFFERNCES SOLUTION
Dear
Thank you for the explenation. I will discuss further with my team.
Regards
Doputy Issuered B 727
Deputy Training B 737
From: @boeing.com> Sent: Tuesday, June 6, 2017 11:01:40 AM To: Boeing Employee Cc:
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



From:
Sent: Monday, June 05, 2017 8:42 PM  To:
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
Sent: Tuesday, June 6, 2017 10:29:27 AM To:
From: Sent: Monday, June 05, 2017 8:26 PM 35
<b>Sent:</b> Monday, June 05, 2017 8:26 PM 35

To:	@boeing.com>;	@boeing.com>
Subject: Re: MAX LEVEL	B DIFFERNCES SOLUTION	
Dear		
Updating my cell no is		
Thanks		
Deputy Training B 737	······································	
From:	@boeing.com>	*
Sent: Tuesday, June 6, 20		
To: Boeing Employee Co:		
Subject: MAX LEVEL B	DIFFERNCES SOLUTION	
<u></u> ,		
I just spoke with call him this time tomorrow	at his mobile # below. Currently in FFS vat number below (and attached). The number	and busy rest of day. He welcomes you shall be:
This would be 11:00 AM Ja	akarta time.	
Best Regards,	ht Services   Regional Sales Manager	
Sing	gapore   UTC/GMT + 8 hours	
x		
on the information contained in this em system. Emails cannot be guaranteed	onfidential and may also be privileged. If you are not the addressee, do ail or any attachments. If received in error, notify the sender immediat to be secure or error free as the message and any attachments coul- do not accept liability for damage caused by this email or ar	tely and delete this email and any attachments from your d be intercepted, corrupted, lost, delayed, incomplete or
on the information contained in this em	enfidential and may also be privileged. If you are not the addressee, do ail or any attachments. If received in error, notify the sender immediat to be secure or error free as the message and any attachments could be a secure or error free as the message caused by this email or are in the country of the c	tely and delete this email and any attachments from your
on the information contained in this em		tely and delete this email and any attachments from your d be intercepted, corrupted, lost, delayed, incomplete or

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amended.	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: 12/10/2014 2:39:47 PM	
Subject: Missed conversation with Boeing Employee	
[2:13 PM]:	
how'd IPT go?	
[2:14 PM]:	
no real surprises. Sounds like TD is planning on using NG T1 plus MAX differences for the manufacture as mentioned to us the other day	er's minimum course,
[2:15 PM]:	
that's going to be a pretty ugly set of CBTs, but if it meets minimum, that's fine. No one is going to bu	ıy that training (I
hope!)	
[2:18 PM]:	
yeah, I assume that the AEG will be okay with going about the transition course this way	
[2:19 PM]:	
I hope I'm still in shock about that got blurting out an FTD is needed	
oops, guy not got	
[2:20 PM]:	
that was pretty much a turd in the punchbowl	
[2:20 PM]:	
big stinky one	
and I know[]going to latch onto that like a starving dog to a milk bone	
[2:21 PM]:	
[2:22 PM]:	take care of it.
i'm still not grasping what the DOORS thing is	
[2:23 PM]:	
Getting on the BT&E schedule to do the T2 test. [2:24 PM]:	
they already know 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 i	n January. I hope
they are making progress on that.	
Yeah they should know about it, but my understanding is that we still need to apply to have it on their	schedule. Details to
follow	
[2:25 PM]:	
after we get thru this RCAS stuff, we're going to have to immediately start up on RSAT, to try and get t	he training level
determination [2:25 PM]:	
agree [2:26 PM]:	
just got an email from an NP PMP, who's working the pitch to for both. I told her she needs to wa	it until late Jan early
Feb for the RCAS training level, and it will be months before we get it for RSAT	
[2:37 PM]:	
oops, I meant NG PMP (Program Mgr)	

From:	Boein	g Employee
To: CC: Sent: Subject:  Boeing Employees 2/26/2013 1:29:13 PM RE: Synthetic Airspeed		
		k for us to figure out what the recommended presentation ces training to a minimum, but without a format we can
		ementation logic by relying on the crew to select synthetic on-memory items in the NNC and would be more difficult to
But we'll definitely be as	sking for your input as we go do	hat work.
From: Boeing Employe Sent: Tuesday, February To: Boeing En Cc: Re: Synthetic A	126, 2013 12:51 PM 1 <b>ployees</b>	
Let me see what implica	ations would be, if only in NNC a	nd not affecting memory items, it could be ok.
Kind regards,		
737/737 MAX Chief Te Chief Pilot Regulatory A		
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:	n@boeing.com>
To:	Boeing Employees
Sent:	7/7/2016 4:52:38 PM
Subject:	Conversation with
p=====================================	
	8:59 AM:
hey 3:59	AM:
yeah	
	8:59 AM:
i i	n the standard NG to MAX pitch? They are coming here 7/25-26 for a Ecab demo
I don't remember	AW.
who from ?	
W	9:00 AM:
9:00	
don't know the na	eme 9:01 AM:
His title savs Direct	tor-Boeing. Not sure what that means. — is putting together the agenda, I will have him put in time for
the pitch before g	
	AM:
sure	<del>-</del> :
L	9:39 AM:
Remember to prod Thanks	d about and working Aug 13 and 14, We want to get this schedule out asap.
	AM:
and ILS only, anyth	
I feel like we had a	nother IOU from them to consider
	9:41 AM:
	cing stuff that we won't have in time for the T3
I	AM:  ur notes from our last mtg plz?
right	in Notes from our last mag piz.
	t have the 120 min limit, which is huge
L	9:42 AM:
that's it from my n	
I	<b>: AM:</b> y 60 min instead of of 30 min
T	this run up is mandatory, so they don't think of it as a memorized limitation
	9:44 AM:
	meeting 7/21. For the tailstrike discussion, we want you, rom Anyone else?
	AM:
maybe ask!	if he can attend to discuss how our IPs train rotation and landing?
okay	9:46 AM:
will ask him to atte	end
	ZAM:
cool	

3:16 PM:

	hore
ī	hey 3:17 PM:
i	
	hey is it to a carby to start drinking?
	is it too early to start drinking?
	3:17 PM:
	never. how'd it go?
	3:19 PM:
	she insists on being able to "feel" the handling characteristics of the DLC for inadvertent actuation. So she's going to bully
	her way onto the cert flight with But that won't be until AFTER the T-tests
	3:20 PM:
	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?
1	3:21 PM:
ិ	do we have a date for that flight?
	3:22 PM:
	run it byand his team first, then elevate toto see if we can get the flight done as early as possible? I know they're in
	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
	[44]
*	us about T1 vs T2/T3, etc. Trying to blow up our whole plan
L	3:23 PM:
	Good to go to [1] think the way to go is to challenge the process of her alone making the decision, and on a cert flight
Ţ	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 requires
	sim training that she'll get crucified. She just wants to say she "evaluated" it.
ï	<u>just like she rolled over on RCAS</u>
-	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
	tell him T2/T3 was done, not T1
-	3:26 PM:
ı	okay. Talked/Webex'd with Nice guy. He has a family reunion in lowa Sat the 6th, would like the early sim
	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
	I didn't see the STAR course email til after I left
-	3:30 PM:
i.	Sure.
	3:34 PM:
į	
	F
	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
	that big a deal

3:41 PM:		
sure, let's do that		
as long as it doesn't create a b	ig break in training for anyonee	
3:43 PM:		
i	and offer that up to him. He was bidding his sch	nedule today. If he is okay with that then I
Same and the same	if one of them will switch groups	readic today. The is only war that, there
	Tone of them will switch groups	
3:47 PM:		
ok cool		
properties and the second seco	oday with you tomorrow in person. lots of stuff to	go over
3:47 PM:		
talking to him now		
4:04 PM:		
he can catch a 5:45 flight to A	tlanta after his sim on the 5th. I told him we would	d drive him from sim to terminal. No change
to the schedule.		
4:05 PM:		
ok cool		
4:06 PM:		
<u> </u>	or asking for) support to drop trips. I told him we	a would be alad to interced for him if he
	or asking for) support to drop trips. I told him we	
	, I told him he should ask to put him up, prob	pably at the usual layover notel.
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 ca	are of him
4:12 PM:		
do you know if CAS funds the	T-test WSRD flights?	
4:13 PM:	C 2222 10.20 22 10.3	
5i	/SRD request for CAS to sign off?	
4:14 PM:	SIND request for this to sign on.	
The same of the sa		
yes		
who's the CAS guy again?		
4:15 PM:	F1 14 F1 VAV 33	
·	although he would probably delegate any question	on you send him. Are we looking for
additional \$\$, or verifying wha	at we have?	
4:16 PM:		
we need 4 hours for each T2 a	nd T3 right?	
have this guy from Flt Test Int	egration asking who pays for it	
4:17 PM:		
yes, at least. Reading the ema	il trail on this right now	
4:17 PM:		
he's the WSRD coordinator		
4:19 PM:		
t	n the MAX and 787-9 doesn't work.	
4:19 PM:	Trule MAX and 707-3 doesn't Work.	
transcription of the second se	1-2	
is that the T1 he was referring	to:	
I didn't look close at it		
4:20 PM:		
	y needed a T-1, so why does the MAX need a T2 ${\sf a}$	ind T3?
4:20 PM:		
I did find the T-2 and T-3 stuff	in the server	
ah, I missed that		
4:23 PM:	O	43

	OMG, this process is so messed up
	I've got 3 emails about the t-tests from 3 different groups today
Γ	4:24 PM:
٠	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:
	no one knows who is doing what!
	4:29 PM:
-	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
	his lack of response) it was decided to not go through the pain of busting a T-1
L	4:37 PM:
	what did say about the other 2 FAA guys working on the weekend?
I	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
ĺ	4:47 PM:
,	see you tomorrow, I'm probably bugging out about 2:00
i.	4:49 PM:
	ok later

From:	@boeing.com>
To:	Boeing Employees
Sent:	6/16/2016 8:29:41 AM
Subject:	Conversation with
	Lancino de la compansión de la compansió
7.40.0	D.A.
7:49 A this has me a little	
	:50 AM:
	in the pudding. Sounds to me like #2 is better because it doesn't mess with roll feel
7:51 A	· ·
	INI.
agree	2:5 <b>1 AM</b> :
	no sig impact to landing distance if it is only a small deployment rate change
7:52 A	100 miles (100 miles (
you would think	AVI.
The state of the s	out the lack of de-rotation, given how much tailstrike is a concern to our customers
7:54 △	
L	the T-tests are going to have the current schedule?
	:56 AM:
	dule, won't make the T test
7:57 A	
keep our fingers cr	rossed no one notices it, and if they do, worst case we say there will be a fix for it coming
l7	:58 AM:
maybe chat w/the	flight test bubbas and see how noticeable this really is
7:58 A	ıM:
well they've said in	our meetings it's definitely noticeable, but and I didn't feel it
maybe only to test	pilots it's noticeable?
	:59 AM:
it may be transpare	ent to the average bear
8:01 A	.M:
that's what I'm hop	ing
8:12 A	.М:
there's a handy ne	w feature, flashing MC!
forest and the second second second second	:13 AM:
no extra charge. J	ust sent you comments on the MAX CBT topic
8:16 A	
	should we ask to give us a name at campus to start working this with us?
	:17 AM:
ven maybe also fir	nd a Boeing hody that works with: !locally to probe trate this with him and the regulators

From:	Boeing Employee
То:	Boeing Employees
Sent:	3/17/2016 1:49:33 PM
Subject:	Conversation with [
[1:35 PM]	:
how's it goin there?	PM1-
	efore lunch. No big objections. One question to send to about how well LMS will play with
the E learning	note failed. The big expectation one question to send to provide the man and minimum that will be a send to provide the man and the minimum that will be a send to provide the man and the minimum that will be a send to provide the minimum th
[1:37 PM]	i e e e e e e e e e e e e e e e e e e e
I deleted your comment	t about the track up vs hdg up on the PFD compass, because we're trying to get that changed due
to an issue that came up	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 r	
[1:38	
	ould have a STAR course. Said no, not for now.
[1:38 PM]	
	ave to look at building the STAR
[1:38	randard for the rose on the MAX?
[1:38 PM]	
Lancard Control of the Control of th	oing to push for
,	ve to go into ATT mode, you can never get a hdg displayed on the PFD compass rose if it's track up
	PM]:
agree on the STAR, but	TD will have to gin up the footprint. I'll send that comment to TD. Was asked about reverse
differences during a bre	ak. thinks that is a good idea.
[1:40 PM]	
	is for engine out $ extstyle{V1}$ cut maneuvering, and the ability to fly the correct ground track in a big
crosswind	
cool	DN 41
[1:40	
havinglactually say	they want reverse differences help to get the funding from CAS
has CL and NG	
we're giving them	11
3 3	nave to deal with CL/MAX til AFTER Level B determination!
1:42	PM]:
agree. nobody asked m	ne about CL to MAX, or what the confidence level was on level B.
[1:42 PM]	į.
sweet	
you can't lie if you don'	
L,	PM]:
1	picture spiel at the beginning, then left
[1:43 PM]	the differences modules? :
I'm looking at your now	
	d 2 of them back in about an hour
11:45	

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

[1:45 PM]:
I 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]: <sub>[2</sub>
agree

From:	@boeing.com>
To:	Boeing Employees
Sent:	1/5/2016 9:08:26 AM
Subject:	Conversation with
[7:47 AM]:	
yo	
[7:48 /	AMJ:
yo	
[7:48 AM]:	
what days/times are we	with the regulators?
[7:48]	AM]:
Tues/Wed Jan 19/20. Me	eetings in the a.m., ecab in the afternoon
[7:49 AM]:	w
any evening commitmen	nts with them?
Sales wants me to hang	out withWed night
and I'm supposed to giv	e them a cab session too
I need to figure out when	n they want the cab
7:51	AM]:
no evening commitment	ts, 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 aft	ter the Wed pm cab session.
Depending on what we d	come up with for cab show and tell, we may not need a whole 4 hours on Wed
[7:52 AM]:	
ok cool	
gonna be an interesting	juggling act for me that week
[7:53 /	AM]:
you could do cab on Tue	esday after we are in there with the regulators, or same time on Wed
[7:55 AM]:	
yeah, let's see if we can c	come up with a 2 hour cab plan for Wed, so I can use the last 2 for
[7:57]	and the second s
It will be interesting for	the cab sessions in that aren't 737 qualified. That leaves as the
ones that have the under	rstanding of the differences between the NG and MAX. hasn't gone to 737 school yet.
7:58 AM]:	Contraction of the Contraction o
dogs watching TV	
[7:59]	AM]:
Funny, I was going to say	y the same. I think we make our money at this meeting by getting them to buy into the training
and evaluation plans. Ur	nfortunate that won't be here, he can corral and guide her. can to some extent.
[8:00 AM]:	
well, I think with all the ir	nexperience present, we should be able to gang up on them and steer it the direction we want. We
just need to figure out w	
[8:00]	AM]:
agree	
[8:33 AM]:	
whatcha think of the OR	W AFM verbiage I came up with?
[8:55 /	200-200 (CE)
working on it, keep getti	ing tapped for other stuff
[8:55 AM]:	

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 nevt week

From:	Boeing Employee
То:	Boeing Employees
Sent:	8/25/2015 1:42:49 PM
Subject:	Conversation with Boeing Employee
	11:42 AM]:
hey	inly to the party that we undeted in this mapting
will seria you a i	link to the pptx that we updated in this meeting.
	AMJ:
ok !••	TI AND
	I1:51 AM]:
and updated the TIA	the 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 114	
	y going to push for removing ARSA as cert requirement
	11:59 AM]:
cert requirement for	
[12:00	
yes	
(5	o look at an IAN issue right now for U12, perhaps give it a thumbs down, which will delay cert of U12,
	tunity to push for removing ARSA as MAX cert requirement
70	12:02 PM]:
do we/she have a sti	rong enough case to convince SACO ARSA isn't required?
[12:02	PM]:
thinks so, a	and so do I
	roll authority, so it can't get in the conditions the latest amndt is trying to protect for
[1	12:03 PM]:
	asier for the MAX. Lots of hours and \$\$ spent on that thing.
[12:10	
i know, but massive	
[1:25	
	more than the tech pilots do. How wrong is that?
	L:26 PM]:
on a number of leve	
[1:29]	
I'm hoping we can k waiting to hear back	
	L:30 PM]:
	ot if after AEG approves the CBT, we come back to them and say "nevermind "
[1:30 I	NAMES OF THE PARTY
lol [12.00]	
Iknow	

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

50

From:	Boeing Employee
To:	Boeing Employees
Sent:	5/29/2015 8:31:54 AM
Subject:	Conversation with
	[7:57 AM]:
webex sliding un	
	57 AM]:
copy	
what are we goin	ng over on this?
	[7:58 AM]:
building the pitc	h for the 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? any big surprises?
	[7:59 AM]:
l suck at flying ja	mmed elevator without DLC
[7:	59 AM]:
it's tough huh?	
I crashed big tim	e my first few times, that's what scares me about showing any of this to them
you can get dece	ent at it after 3-4 tries, but the first few are ugly
	[8:00 AM]:
they are going to	o tweak the elevator effectiveness a little. Yeah we talked about using a reasonable cg to make it doable
without dlc. We	want them to succeed without DLC
	chasing pitch and power and get in a PIO
	03 AM]:
	ave to have it trimmed up pretty well when you start your appr descent, and the thrust coupling is way
	nan the DLC, at least that's what I found
you of course ha	ve to pretty much disregard your airspeed :)
	[8:05 AM]:
19 <del>7</del>	es we were flying gave you the plane 10 mile final, level on speed at F15. Pretty stable start.
	lking about starting at altitude. That is going to be a bag of worms and a waste of time.
	05 AM]:
that is irrelevant,	since the DLC doesn't work until the flaps are extended
	[8:06 AM]:
ana 1870, ang	nt to get into it with her, told her we were still building the profile
	06 AM]:
we don't have tir	me to show them multiple scenarios from alittude thru landing, that's stupid [[8:07 AM]:
von laut to	Last
	ogether a sequence that we will go over. We will also pull some of the slides from the pitch and an investment and the pitch?
	08 AM]:
yes [lo.	OO ANIJ.
	watching TV for the AEG (and me too)
	raphs, blah blah blah, stuff non-engineers and test pilots can't really understand
	nes all line up between max and NG, which is supposed to prove they fly the same
Series charteres	[8:10 AM]:
sent me th	nat pptx, yeah a little too technical. I think that didn't sit well with as she wants to experience it.
L	pout that yesterday, in that we are moving from the chalk talk to the practical demos to win their
confidence	51
	51

[	[8:11 AM]:
1	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
٥.	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
٢	<u>IP</u>
L	[8:20 AM]:
	I saw that email traffic
	interesting that no one in Boeing knows about it
	[
	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]:

From:	Boeing Employee
То:	Boeing Employees
Sent:	4/12/2016 9:04:14 PM
Subject: Attachments:	RE: MAX Recurring meeting 4-12-16 NG to MAX Differences.docx
	IAX differences document to outline all of the large and small changes on the MAX (see last v). The concern is that sum of all of these small changes could potentially jeopardize level B
Please take a look send to the cert pilo	and add/delete as you see fit. Once it has made the rounds within our group then we need to ots.
Thanks,	
Flight Technical & Safe	ty
~ Desk ~ Mobile	
From: Boeing Em	
Sent: Tuesday, Apı To:	ril 12, 2016 3:42 PM @boeing.com>;
10	@boeing.com>; @boeing.com)
0.11-1.11	@boeing.com>
Subject: MAX Rec	curring meeting 4-12-16
FYI,	
From the MAX recu	urrina meetina:
	ΓΙ-ICE annunciator panel light illuminating in flight without a known cause.
	ing to add an additional camera to capture overhead panel lights to track reason
	d take time to get camera
	d meeting late so no more information. G ANTI-ICE light latching on battery starts
	latches on standby power if in flight
<ul> <li>ECS would</li> </ul>	like to increase the time the amber L/R VALVE WAI light can remain illuminated before setting
the MC light	
	s to reduce a lot of the nuisance alerts that are being seen in flight tests  WL ANTI-ICE light illumination when engine thrust is suddenly increased.
	pple, descent followed by level off when EAI is on
· [and]	expressed a BIG CONCERN that all of the small changes are really starting to add up.
	of small changes in systems that where not supposed to have any changes from NG
-	Electrical - 3 or so second delay to engage generators after start
	S Longer transition times in EAI/WAI valves
	§ Longer engine start times § Etc.
o a	nd would like to start a list of all of the changes, big and small.
· · · · · · · · · · · · · · · · · · ·	§ I will start working on this list. Will send around internally to compile and then will send to the
	pilots for comments.

	j
Flight Te	echnical & Safety
	- Desk
	~ Mobile

O

From:	@boeing.com>
To:	Boeing Employees
Sent:	9/20/2016 4:45:27 PM
Subject:	Conversation with
	in a second seco
3:24 PM:	
did I miss the 2 issue	s we want to talk about?
3:2	4 PM:
nope	
This is the dueal wea	ther radar config not working for 20 seconds each time you switch between the systems
3:26 PM:	
oh sweet jesus	
H 3:2	6 PM:
and gues who one of	the 3 affected customers would be????
4:12 PM:	
this is a joke	
this airplane is ridicul	ous
4:1	2 PM:
getting better and be	tter
what havent they told	l us yet???
Whats next?	
4:13 PM:	
who knows	
	3 PM:
We are having issues	s with every update we do
4:14 PM:	
it seems like they'll n	
fix one thing, break 3	others
4:2	1 PM:
OMG!!!!	
What the hell	
4:42 PM:	
ugh	
I need a cold one aft	er that
Gustavsson, Patrik H 4:4	2 PM:
me too	
This is just ridicoulus	
4:42 PM:	
too bad I have to go	
4:4	2 PM:
no one wants to fix a	nything
Have fun!	
4:43 PM:	
you too. later!	
1.4	2 DNA.

later

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	@boeing.com>; (	
	poeing.com>; @boeing.com>;	
	eing.com>	
	RH Procedure for MCP LOCKUP	
Sweet! You're jedi mind	d tricks serve you well	
737 Chief Technical Pilot		
BOEING		
From: Boeing Emloy		
**************************************	· · · · · · · · · · · · · · · · · · ·	
Sent: Thursday, August		
To:	@boeing.com>; @boeing.com>; @boeing.com>	
Subject: RE: Q	RH Procedure for MCP LOCKUP	
Subject. INC.	KIT FTOCEGUIE TOT MICE LOCKOF	
Done. will tell	he has no objection to the checklist.	
Dorio.		
Erome		
From: Sent: Thursday, August	17 2017 12:22 DM	
To:	@boeing.com>; poeing.com>; @boeing.com>;	
	eing.com>	
	RH Procedure for MCP LOCKUP	
Cubjecti i to.	ATT TOSSGAR TOT MOT LOOKST	
I suggest a phone call b	ack to telling that while in general we don't support cycling CBs we realize this has	
been an effective customized NNC and would hate to see them lose it, especially since it's worked well for		
them.	Land Land House and the second transfer of the second Heat Lea	
	oinion, he's asking for So let's give him enough ammo to pull the trigger.	
Li but asking our of	Joseph Million of Pull the Higger.	
Sent via the Samsune Galaxy	87 active, an AT&T 4G LTE smartphone	
	per annual control per annual per	

---- Original message -----

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>; Doeing.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:		
Would love to hear your thoughts before I respond. Many thanks.		
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:		
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-hant/page,		

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 needs 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 ofand the B-737 APMs in this office, that the procedure remains acceptable. Would you please provide us your concurrence on this matter so thatan continue use of this non-normal procedure?
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 Employee	
To: CC: Sent: Subject: Attachments:	6/6/2017 9:21:51 PM FW: MAX LEVEL B DIFFERNCES SOLUTION NG to MAX Differences.pdf; Procedural Differences.pdf	
be creating a difficult an your region for other M Please review with you	yesterday. We had a good phone conversation. I am concerned that if quire a MAX simulator for its pilots beyond what all other regulators are requiring that it will not unnecessary training burden for your airline, as well as potentially establish a precedent in IAX customers. I have suggested some alternatives to requiring a MAX simulator below. In team and let me know if you would like to discuss further. I also attached a few just how similar the MAX is to the NG.	
From: Boeing Employe Sent: Monday, June 05 To: Cc: Subject: RE: MAX LE		
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		
From:		
Sent: Monday, June 05 To: Cc:	5, 2017 9:33 PM @boeing.com>; @boeing.com>	

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
Sent: Tuesday, June 6, 2017 11:01:40 AM  To:   Boeing Employee   Cc:   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.
737 Chief Technical Pilot    DIEING
From:
Sent: Monday, June 05, 2017 8:42 PM  To:
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
60

Deputy Training B 737
From:
convenience. Do not worry about what time it is here for me.  My cell is
737 Chief Technical Pilot
Q_BOEING
From: Sopti Monday, June 05, 2017 9:26 PM
Sent: Monday, June 05, 2017 8:26 PM  To:
Subject: Re: MAX LEVEL B DIFFERNCES SOLUTION  Dear
Updating my cell no is
Thanks
Deputy Training B 737
From:
call him this time tomorrow at number below (and attached). The number shall be:  Mobile  This would be 11:00 AMtime.  Best Regards.
Bocing Flight Services   Regional Sales Manager   APAC   Singapore   UTC/GMT + 8 hours

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From:	@boeing.com>
To:	Boeing Employees
Sent:	5/18/2018 10:38:43 AM
Subject:	tomorrow and upcoming weeks
	10:20 AM:
	w they are yanking your chain. Sorry man
	10:20 AM:
It's such a shit sh	The state of the s
	10:20 AM:
totally	IVIZV AIII.
	the FAA passes this turd
	10:20 AM:
They are doing a	Ill this last minute shit. I really do need to be there to make sure they haven't screwed things up too badly
	10:21 AM:
you know they di	
r you know they a	10:21 AM:
FASA expressed	I their concerns yesterday with the high DR count for SIN. Not going to be easy
	10:21 AM:
not surprisinng	IV.ZI AWI.
r	10:22 AM:
None Notlookin	g forward to the next few weeks
1/4	ke today off, now I'm making travel changes, and emails. It'll be a lot of overtime this pay period!
	10:23 AM:
L	your family, be there as much as you can
	ou need to on me or the other guys. I leave for my trip next Fri for a week
	110:26 AM:
I will, hope you h	ave a good trip around Europe!
ta an ann an amh-aireann a bha an Aillig an an an an	10:32 AM:
L	e fun. 2 new pins in the map for me
,	

From:	i@boeing.com>
To:	Boeing Employees
Sent:	5/18/2018 9:18:56 AM
Subject:	MAX Level D
•	
	8:48 AM:
Morning	
Your badge still work	ed this morning? :)
8:50	0 AM:
lol	
morning sir	the balance of the balance of the age of the
it worked in my comp	outerbut working from home today so who knows about the office entrance lol!
lal	8:51 AM:
lol Same thing here	
	1 AM:
haha sisa	L DIVI
папа	8: <u>51 AM</u> :
Just got a request fro	
	ent 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	2 AM:
:]	
크림 보다면 역시에서 가게 되었다면 어린 그리고, 이글 이렇게 구성을 모아 되었다면 다른다.	ted an extra day with you just in case
cause they love you;	
	3:52 AM: 13
Either way, not much	
	2 AM:
haha yeah i saw that	8:52 AM:
Didn't really say much	** weeps represented
	2 AM:
i think he's overall uni	
- Tomak no o overda dra	8:53 AM:
He should be. It hasn'	t been an impressive performance
1	3 AM:
pretty sure he has a s	sour taste in his mouth about this team
	B:53 AM:
The only reason we ju	ust about scraped through to a yes vote is because of YOUR work. And hugely because of
tireless work	
	eated a culture of "good enough"
And that is an incredit	
	nymore. The cozy days with regulators are nehind us
yeah i'll look to get so	4 AM:
	inge with that sim group
	t the head and start fresh
	8:55 AM:
Yes, he deserves it m	nore than anyone. BY A MILE
	5 AM:
that team just continu	
	ion, never accountability
[	8:55 AM:

It can't be how we do things at Boeing anymore. Out with the old, in with the new I say

	Not necessarily people, but attitude!
Ľ	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:
)(1745)	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:
Las	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 kares 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
1	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: To: Sent: Subject:	Boeing Employees  5/15/2018 1:36:27 PM  Conversation with
	9:02 AM:
you on a call?	PAC AIM
∌:02 AM:	
Yes but it isn't importa Just TRB	nt
	9:02 AM:
Ok, need to chat with	you
9:03 AM:	
	w 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 e saying that the issue that wasn't on offer was accepted in the load it wasn't meant to be checked
In summary, no go for Number of oustanding	the following from my opinion:  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	quires another sofware update to an already froxen load and the best it does it restore the tiller to the known
Air conditioning - now co	mpromising 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	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 wi or 6-2	II be 5-3
did llget a hold of y	10:19 AM: you?
10:22 AM:	
His vote is deferring to	een thrown to the wolves o me
	DRs - quantity touching almost every aircraft system. Failure to meet targets, duration of open DR that closure, ECDs for certain systems being pushed to late 2018 or 2019
Unknowns -	
Tiller control loading - re	quires 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

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:
уер
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:
ok
10:37 AM:
I wonder if is just lisening in
listenina
10:37 AM:
maybe
10:55 AM:
We know where \ vote is going
10:55 AM:
l know
Are you wavering?
i just forwarded the meeting notice as he asked if SM were on the call - didn't realise it went to all
I'm doomed
10:56 AM:
Nope, not wavering
It's a no
10:57 AM:
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:
If they nearly walked off last year, then they will probably be very happy to see it again I'm sure!
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?

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:
I got it from him about 6 weeks ago
I agree
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:
I just received a shovel to start my journey to the hotter place
11:28 AM:
Commission of the commission o
I'll end up there either way. There is no way anyone involved in iLC does not end up there
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it sourids like it to me
11:37 AM:
that's system checking isn't it?
11:37 AM:
yes it is
11:38 AM:
Total and the control of the control
So qualified or not qualified makes no difference
11:38 AM:
I'm not sure, but it wouldn't be hard to check
11:39 AM:
What of the irreparable damage to the Boeing name if it fails?
11:39 AM:
exactly
11:39 AM:
Binary could be dead in the water
11:40 AM:
good shape for QTG?
11:41 AM:
At a late to the action of the
not as good as people think
And certainly not for CAAS
So it was a turd but now it is slightly polished
11:48 AM:
I believe them. They did get everything fixed between each iLC qual last year. Right?!?!?!
11:48 AM:
Of course they did - it's all documentation
Rold claim
11:48 AM:
of course!
Not issues here
11:49 AM:
Imagine now that it fails for a Binary reason
11:49 AM:
That was bold
At least they delivered on 0 DRs a week ago
Wait a minute
11:53 AM:
And that was the official answer - we are going
11:53 AM:
lol
This is just a waste time, going through the motion. Let's see how the campus votes
what. The product is high quality!!!
The binary group just confirmed it
11:55 AM:
I
it all relative
11:56 AM:
lol
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: ←
Indeed - won't be on the call on Thursday
will say yes - has said the tiller is back the way it was, calibrated, and QTGs passing
plas said the tiller is back the way it was, calibrated, and Q 10s passing

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 hinks 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/maste
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 tuppel vision - they are concentrating on two issues when there are hundreds more

Exactly - people have acquired tunnel vision - they are concentrating on two issues when there are hundreds more

From:	@boeing.com>	
To:	Boeing Employees	
Sent:	5/14/2018 4:50:02 PM	
Subject:	Conversation with Boeing Employee	
	3:20 PM:	
can you forward this	■ 1 months of the contract of	
My outlook doesn't w		
	but the meeting notice is not there	
3:21 PM:		
Sent		
- Conc	3:22 PM:	
cowoird it door not		
	show 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 co	ompany 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 a	nd restarting	
I find now I have to d	o that if I switch networks	
	3:25 PM:	
l did	!	
3:25 PM:		
Ahhh		
	OF DRA.	
Leven shut down the	25 PM:	
	Computer	
3:25 PM:		
That isn't good		
	3:25 PM:	
Let me try different n	etwork	
	3:29 PM:	
still not working		
3:29 PM:		
That's strange		
Might need IT to help		
	3:29 PM:	
Yep		
3:31 PM This message was	sn't sent to	
Yep	m com of the common of the com	
ΥΥ	:35 PM:	
hmm		
lets see		
35 PM:	***************************************	
What do you mean -		
	:35 PM:	
haha		
:35 PM:		
There is one group a	nd we aren't it	
	}:36 PM:	
your vote is the same	parameter q	
	L	71

3:36 PM:

3:39 PM:
No and No
3:39 PM:
yes
B:39 PM:
No. of the second secon
NOOOO
3:39 PM:
I am 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
i 3:40 PM:
hmmm
Let's talk tomorrow morning before the call
40 PM:
So get ready to lift the carpet, break out the brooms and start sweeping
3:41 PM:
The fact that this call took this long kind of proves where we are
B: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
B: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?
8:50 PM:
(facepalm)
(facepalm) 3:50 PM:
(facepalm)  3:50 PM: (facepalm) (facepalm) (facepalm) (facepalm) (facepalm) (facepalm) (facepalm) (facepalm) (facepalm)
(facepalm) 3:50 PM:
(facepalm)  3:50 PM: (facepalm) (facepalm) (facepalm) (facepalm) (facepalm) (facepalm) (facepalm) (facepalm) (facepalm)
(facepalm) 3:50 PM: (facepalm)
(facepalm)  3:50 PM: (facepalm)  (facepalm) (facepalm) (facepalm) (facepalm) (facepalm) (facepalm)  3:51 PM: (lalala)
(facepalm) 3:50 PM: (facepalm) (f
(facepalm)  3:50 PM:  (facepalm)  3:51 PM:  (lalala)  3:56 PM:  That pretty much settles it then
(facepalm)  3:50 PM: (facepalm) (
(facepalm)  3:50 PM:  (facepalm)  3:51 PM:  (lalala)  3:56 PM:  That pretty much settles it then  3:56 PM:  It does in my view
(facepalm)  3:50 PM:  (facepalm)  3:51 PM:  (lalala)  3:56 PM:  That pretty much settles it then  3:56 PM:  It does in my view  3:57 PM:
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(facepalm)  3:50 PM: (facepalm) (
(facepalm)  3:50 PM: (facepalm) (
(facepalm)    3:50 PM:   (facepalm) (facepal
(facepalm)  3:50 PM: (facepalm) (

	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:
	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
í	‡:08 PM:
Ĺ.	How is that working out?
-	10 PM:
1_	Hmm, same as always
	Not going to get anywhere
	just getting a history lesson in URT
_	Same as every other time
	4:14 PM:
	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
į	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
Subject:	Conversation with Boeing Employee
3.00	
	2:3 <b>1 PM</b> :
Are you dialling in	to the meeting?
2:32 PM:	
Yes - 2 minutes	
	2:32 PM:
cool	
2:33 PM:	
I'm on	
Address Action of the first Action of the first Action of the first Action	2:35 PM:
This is weird	<del></del>
'm not 100% sure	what to do with
2:36 PM:	
VIIIIIIII	nne - leave the DR open awaiting data
	nat it is right before allowing it to be closed
	le the priority if need be
	2:38 PM:
Ok, sure	
2:38 PM:	
But leave it open	
	a backup if a regulator spots it again - EASA and UK CAA will likely test it
- Cust so we have a	2:45 PM:
You ok with that?	
2:45 PM:	
L	y are just dispositioning DRs again - will take the video and send it to all parties
	2:57 PM:
Seriously?	F. 51 1 M.
2:57 PM:	
Its a bloody joke	
	0.01 AB4.
Irania and a second	8:01 AM:
	ou, wanted to see how discussion ended yesterday
8:04 AM:	med a poor connection, as soon as you drapped off line. I started stating you had asserted it all in
November	med a poor connection - as soon as you dropped off line started stating you had accepted it all in
	per with the whole thing - they fail to understand that the pilots subjective feedback is as important as
[연구의 문장사회사 가득자기자 주장	test conditions that pass or do not show the full picture
A 5 100 100 100 100 100 100 100 100 100 1	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?	. That you have during youthan about the complaint from Love in regards to go droulds, what is their
8:08 AM:	
h	uring flap retraction
FD commanding d	
Autopilot descend	
harman and a second a second and a second an	8:09 AM:
ok	
:09 AM:	
(	s so what could they possibly know
	3:23 AM:

Hope that came across clearly

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
,
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!!!
B:55 AM:
on the call :)
8:55 AM:
<u>demonstrations</u>
8:55 AM:
8:55 AM: who is?
8:55 AM: who is? 8:55 AM:
8:55 AM:  who is?  8:55 AM:  They do not understand the liability we as a company are taking on
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:
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!!!!
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:
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
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From:	@boeing.com>
To:	Boeing Employees
Sent:	12/12/2017 8:43:40 PM
Subject:	Conversation with [
8:35 F	PM:
dude why are you	u online. Go enjoy your family
	8:35 PM:
	the computer down!
	you doing on this late?
8:35 F	'M:
ok good	
	8:35 PM:
who are	
8:35 F	and the same of th
I have a call with	to discuss MAX
they're idiots	
thoy to lateto	8:36 PM:
Ahthe HUD stut	
8:36 F	
the morons who t	took HUD on MAX
yes, and the DG0	CA in India is apparently even stupider
if that's a workd	
work	
word	
I'm drinking obvio	
	8:36 PM:
Sounds about rig	
	in Thurs night with in India
	8:37 PM:
	ot the slot at midnight on thursday evening for landings?
8:37 F	
more stupidity	
yes	п
	ngs, no instruments right?
	8:37 PM:
At least you won'	t have to actually travel to India
8:37 F	'M:
me you and	apparentl
	8:37 PM:
No instrument	
8:37 F	'M:
y ak good	
ok good EFF that	
so stupid	
20 0.000	8:38 PM:
will do it too	. You can do you landings and get out
I'll stay for	landings
8:38 F	
u sure?	
I don't mind stayi	ng
	8:39 PM:

	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:
	No I meant Project Management
	not our stupid end of year PM
-	I don't care about that crap
L	8:42 PM:
	Ahh. yes. Same here. Hate, hate, hate it. So glad we had
	β:42 PM:
٠	I work hard and let it play out
5	it's garbage
1	8:42 PM:
	Again, let me know if you need help
	8:42 PM:
١	will do
	8:42 PM:
	Signing off. Have fun with
	See you tomorrow
Ī	8:42 PM:
L.	now go drink with your wife and play with your boys
	and kick the dog
	just kidding
ſ	8:43 PM:
_	haha, kick the wife and play with the dog!
	8:43 PM:
	NO!
	divorces are too expensive!
	see ya tomorrow
	cheers1
	!
-	8:43 PM:
-	See you!

Absolutely. You work 1000% harder than me, and anyone each and every day. I think I can hang around another few

From:	@boeing.com>
To:	Boeing Employees
Sent:	6/5/2017 11:19:13 AM
Subject:	Conversation with
6:54 PI	
Morning, just got to Gaty 6:55 PM:	wick. First day in sim tomorrow
how were the flights? 6:55 PI	NA.
Copy me in on emails if wind additive	you dont mind, so that i can keep up to speed with what is going on at home, in particular RTL and ird business seat layout on
6:55 PM:	
Control of the Contro	in MIA has the overrun and speedbrake warnings activated, or capable of being activated?
Not bad, but i would pro	bably choose another airline over their 787 e of an email right now to find out
6:56 PM:	
I already sent one to	
6:57 PI	M:
Good	
6:57 PM:	
Now friggin mighting mighting mighting mighting might	nt need a sim to fly the MAX, and maybe because of their own stupidity. I'm scrambling trying to w this now!
6:58 PI	M:
WHAT THE F%\$&!!!!	
But their sister airline is	already flying it!
6:58 PM:	
I know	
not sure if this is Lion's f	
6:59 PI	
	I me to go down for a day while im there, not ideal but if we have to we have to
7:00 PM:	
	s coming for the delivery so we can always get him there naking a training determination on Wed, so that's why I'm trying to jump on this tonight with them
You definitely want to be	
	these curve balls stop coming
7:01 PM:	and the same state of the same
its unreal man	
	ımmer we'll be ok, in theory
7:02 P	M:
haha, I do recall saying	and hearing the same thing at the end of last summer!!
7:02 PM:	
ha! good point	
little did we know	
who should I send a VN/ 7:03 PI	AV and Flight Director question from to?  M:
Prbably	he has helped me out recently
Or if it is more FMC then Or both	1[]
VALDOUT	

7:04 PM:

ok,	is claiming they're having level off issues with the split cue FD now that they've switched	to i
,	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
	Landendersteiner
9:04 AM:	
any big show stoppers	d be the big impact for a customer to move from EASA AFM rules to FAA AFM rules?
9:04 A	M:
Not that I know of	
9:04 AM:	
some autoflight rule chair	/A
the perf be a bit less co	
9:05 A	
Yes, seems less restrict	ive in FAA
9:05 AM:	
anything else?	
9:05 A	M:
	n 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 A	V-10-1-10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
I'm not familiar enough v	vith the AFM, I'd say run it by
9:06 AM:	
I am now, he's not really	chiming in
9:06 A	M:
	eview them. Contrast and compare
9:09 AM:	
ok i'm going to need you	ı to do that. I'll havesend you
data	40.755
we'll chat about it at the	
9:09 A	
Please do, I'll look at it a	
	ording for the U13 issue, we need to agree on what to add
9:11 AM:	Alexander and the second distriction of the second
	the pure operational impacts/limitations differences specifically for it looks like convince them to convert to FAA rules to simplify AFM approval by their GCAA. It's really
complicated, I'll explain	
	se the performance differences
9:18 A	ADSTRUME - 100
Ok, sounds good	
9:21 AM:	
	raveling to MIA tomorrow for the week I just won't have the time
9:25 A	(475)
	e one for the team at the moment!!!
9:26 AM:	
we all are	
12:05 PM:	
	e ecab for on the 9th?
12:16	
I did	
12.16 DM	

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'll 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:
Language and the second and the seco
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 jedi mind trick
2:30 PM:
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

Note: CRZ DES will not capture the normal Descent Path if the CRZ altitude and descent

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 function
in so many places
2:33 PM:
does it say anywhere how you actually do the CRZ DES?
2:34 PM:
That is the whole section right there!
7.4
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:
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
MODERATE OF THE PROPERTY OF TH
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:
will do
although I won't be sleeping in it til June at the rate I'm travelling
3:29 PM:

From:	@boeing.com>
To:	Boeing Employees
Sent:	4/26/2017 12:03:48 PM
Subject:	Conversation with
oubject.	Conversation with
11:06 AM:	
I'm going to bed now, le	ave in 8 hours for airport. I'll land around 1230 Thurs. Anything before I sign off til then?
11:06	성을 다는 것으로 보고 있다면 보고 있다면 그렇게 되었다면 그렇게 되었다면 그 이렇게 되었다면 그런데 이렇게 되었다면 그렇게 되었다면 그렇게 되었다면 그렇게 되었다면 그렇게 되었다면 그 그렇게 되었다면 그 그렇게 되었다면 그 그렇게 되었다면 그 그렇게 되었다면 그렇게
Nothing on fire!	
Try to get some shut eye	e before the flight
11:07 AM:	
except	
and my shit	
11:07	AM:
true	
11:07 AM:	
and all the bulletins that	need published
11:07	
That and a million other	
11:07 AM:	STIGHT 155 U.S.
	er else I've dropped the ball on
11:07	BECK 1990 (CAR CAN A CA
	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:	
	get away with only using MWH in our type rating course, cuz it's 142?
11:08	사꾸 시간 :
······	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:	
	on those useless bags of #\$@% the last 3 years
- 사루이 아니스 사용 이 경찰 이번 시간 시간 사용하다 보고 있었다. 이 시간 사용하다 이 사무를 하다 다른데 다른데 다른데 다른데 다른데 다른데 다른데 다른데 다른데 다른	t together a killer perfect course if that was all we had to do
and done it in like 3 mon	
11:18 /	
	vaste of time, effort and money that was completely avoidable!
I agree, a fraction of the	cost and time
11:18 AM:	
ridiculous	
11:39 AM:	6
	fused enough is trying to say it works per design!
11:39 /	
Sounds like a sucky des	ign if that is the case
11:39 AM:	
	build a cruise descent that only works form the initial VNAV path!
11:39 /	
doesnt make sense to n	
	elated FCOM pages for them to review
11:41 AM:	
terrible design, and there	e's no way the FCOM covers this only applies to the initial path. This needs to get fixed if that's

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 & ours

127	sleep in last 30 or so
ſ	11:42 AM:
	Get some rest!
	11:42 AM:
	I'm just praying the musical porn show doesn't start up again at 3am
ľ	11:43 AM:
Ĺ	LMAO!!! Hey, its free porn!
•	11:45 AM:
i	
	who cares when you're exhausted
	I'm friggin delirious dude between this FMC crap, the lissue, and everything else I'm spent
r	
Ĺ.	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!
į.	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
Ī	11:52 AM:
İ.	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?
1	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!!!!
i	11:54 AM:
ļ	can do it, I'm sure he's bored now
l	11:54 AM:
5.	Normally the FMC is tested during an entire flight test program, like the 787 or 737 MAX
L	11:54 AM:
	jesus, it's doomed
7	any cab testing like we asked for?
ί.	11:54 AM:
	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
L	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:
Ĺ	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 pilots was very limited. The 4 we tentatively brought forward to include Spoiler Pitch
	Augmentation, Elevator Feel Shift, TSP Annunciation, and Flare Guidance.

We have to go with the least impact option. Doing nothing doesnt seem to be an option [11:57 AM:
11:57 AM:
11:58 AM:
11:58 AM:
I don't see any of these flare assist options won't trigger sim training by
11:58 AM:
I 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!

Fr	rom:	@boeing.com>
To	o:	Boeing Employees
Se	ent:	1/31/2018 9:38:16 AM
Sı	ubject:	Conversation with
		<u></u>
	9:16 AM:	
	said c	ooridnated it on the way to Russia. I asked him for any email trail
	9:17 AM:	
i	also asked him but did	not know if there was an AR pilot
	9:22 AM:	
fr	rom	
	told me that he didn	It believe there was any discussions with the cert pilots on this.
(t	tmi)	
	guess we had to mess	up at least one thing during this whole process
<u> </u>	9:24 AM:	
n	<u>ot good, but</u> thinking, w	hy this is a big impact?
	9:27 AM:	
	The state of the s	ever told this was coming, they didn't properly evaluate if for cert purposes, to keep with our
		ngine indications, that turning the oil temp amber for 31C and below is required.
		FCOM without them knowing. you know they don't actually review the FCOM
	nd on a personal note, ilots, when now it looks	용료 및 가능한 사람이 있는데, 그런 그런 가는데 그는데, 그는데, 그는데, 그는데, 그는데, 그는데, 그는데, 그는
-0.00	robably the only one w	
Γ <u>-</u>	9:30 AM:	
b	i	e issue about the engine instruments not indicating a green range? somehow that was certified on
		believe is a bigger issue than this one
	9:37 AM:	
	didn't have it	on the Tues agenda
1	9:38 AM:	
С	k email in a minute, hav	ve some info on why only white ranges is acceptable

From:	@boeing.com]					
Sent: To:	12/12/2017 9:44:16 PM [					
Subject:	Conversation with Boeing Employee	j				
•	\					
:						
iocus got of	):17 PM: f the computer and go drink with your wife!!!!					
jesus, get or	1					
been there of	9:17 PM:					
been there t	aone triat					
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	ory of the 737 group					
[	>:20 PM:					
i know but w	ve need to be able to justify replacing					
not that we	can					
	9:20 PM:					
agree and a	gree					
its a fine line						
no it's a BS l	·					
<u> </u>						
t yeap						
grey goose i	<del></del>					
	9:28 PM:					
are you just	starting? or just going?					
half way						
	9:29 PM:					
funny, i was	having some Bowmore Scotch, very good					
	, 					
also tasty	<del></del>					
I just jedi mi	nd tricked this fools.					
I should be o	given \$1000 every time I take one of these calls					

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

-	9:31 PM:
•	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
i	):33 PM:
	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!
ĺ	þ:33 PM:
	yeah
	35 PM:
	now go sign off
	:36 PM:
	i will soon
	9:36 PM:
	NOW!!!!!
	[э:36 PM:
	kids and the wife are watching a show that i am not interest in
į	9:36 PM:
	unless it will help you flex with the kids next week
i	9:37 PM: yeah, Thur off next week
	A 9:37 PM:
	sweet
	I'm doing smae
	same

From:	Boeing Employee				
То:	,**************************************				
Sent:	Sent: 2/25/2016 7:57:28 AM				
Subject:	RE: For 2pm				
Strict FAA manage. We are earlier that the instructions is andle our blender the D6 document eally describe who was a would have helpe for rejecting). No	ple issues that led to the crisis in confidence — gement on previous programs (747-8, 787-8) an we typically would be (people are used to a "firm" aero configuration the order relative to TIA (states/implies strict transition from content approach well which leads to different interpretations at for TIA instructions/requirements are too vague. Because of that we are doing relative to the airplane configuration after TIA different systems groups are addressing the issue. Some just satisfied they were doing. A clean story of what we are really doing to go determined the confidence that the FAA is under the confidence of the confidence that ARs are doing the right thing in "concurring" and confidence that ARs are doing the right thing in "concurring"	that there is no plan laid out to and getting to certification. You ay they will address post TIA cation tests. Others went to great get from TIA to cert tests to cert erstanding what they are accepting eptable for post TIA configuration			
Vero-Stability&Cont	rol, 737MAX & AR Advisor				
f you can't get a hold	I of me, please contact				
<b>Sent:</b> Thursday, F	ing Employee ebruary 25, 2016 7:35 AM ng Employees				
Project Administral Boeing Regulatory					

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 Employe	
	e : mber 17, 2015 2:21 PM
To:	Boeing Employees
Cc:	Boeing Employees
Boeing Employees	]
Subject: RE: !!! Impor	rtant Help Needed!!!EASA RSAT/RCAS ECD dates
The EAA AEG refuses	to negotiate the training level determination for either RSAT or RCAS until the TIA is
	view it with the SACO pilots. We've got their preliminary approval of the RCAS CBT, based
	CBT is currently being revised. Now that we know the scope of the RSAT alerts that will be
	to finalize the RSAT CBT. As we understand it now, the RSAT functionalities to be certified
along with RCAS are	ORW (in air and on ground), PRW, and the SPEEDBRAKE alert. If this is not correct,
someone needs to let	us know that.
To be also had been	the AEO commend the DOAG CDT that do no not make the commend the CDT as the
The state of the s	ise the AEG approved the RCAS CBT, that does not mean they approved the CBT as the I'm fairly sure they will push to have at least the ROLL AUTHORITY alert trained in a
	ng to push back very hard on this, and will likely need support at the highest levels when it
comes time for the fin	
	uired for RCAS. Failure to obtain Level B training for RCAS is a planet-killer for the MAX.
Scholassife in Chen (survivus Selfat Hoffs St. Honders (selfat St. Holl) of the Selfat Scholassife	
	e AEG to push for simulator training for some or all of RSAT. We will also be fighting
against this as well.	
Me are well prepared	to have this training level discussion with the ACC for both BCAT and BCAC
vve are well prepared	to have this training level discussion with the AEG for both RSAT and RCAS.
If you need more infor	mation, please let me know.
ii you noou more iiiot	maderi, piedee let me tale w.
Thank you,	
<del></del>	
727 Chief Tachnigal Dil	
737 Chief Technical Pil	Ot
« <b></b>	BOEINGEDGE
DBOEING	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 ast week and his review of the FAA IP, does not believe EASA will issue a CRI for differences to the FAA cert basis for 91

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 hem, 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 Control C

From: Sent: To: Subject:	6/7/2013 9:13:10	@ussevm18.cs.boei PM @b PDR_AI22 - MCAS/S	oeing.com]	@ussevm18.cs.boeing.com]
				progress on this item.   13 21:12:47 (US Pac)
	Name and the control of the control	and the second of the second o	item info and the link below or use	new progress data   itracs
To view and/o	or edit the ITRACS i	tem, select this item	n number link <u>37MAXFCI</u>	-PDR_AI22
	37MAXFCI-PDR_ <i>A</i> AS/Speed Trim	AI22		
Mc Ph Ef Ne EC	ategory: odel: ase: fort: eed Date: CD: ext Phase Due:		737 MAX -8 COMPLETE JUL-01-201	3 00:00:00
Cc Re	ion Responsibi ompany: ssp_1: ssp_2:	lity:	Boeing	
when   +	what	who	(by who	when added/updated)  (US Pacific Time)
6/7/13 Mee 1) GTTA le type funct 2) If we e and train: 3) Treat a 4) Externa 5) Interna 6) Work wa acceptable 7) Make su	tion. emphasize MCAS ing impact. as an additior ally we would ally continue ith AR on cert	as MCAS but tr is a new fun to Speed Tri communicate i using the acr cification per	m. t is an addition tonym MCAS (within espective to ensure	variable names etc).
continue t	to use the MCA sidering MCAS	AS nomenclatur to be an addi	e internally (var: tion to the Speed	07-JUN-2013 12:18:39 s provided that we can table names, etc) while Trim function. This will

to training impacts and maintenance manual expansions.

From:	@boeing.com>
To:	Boeing Employees
Sent:	5/23/2018 1:49:51 PM
Subject:	Conversation with Boeing Employee
Cue Darth Vader	
21:12:	
Somebody's hea	
	AIL [also TRU issue] has occurred - not going well for them when the blame game starts to be played
	issues popped up?
21:14:	
None	
Ĺ <u>_</u>	21:14:
· · · · · · · · · · · · · · · · · · ·	voodoo?
21:14:	and the real region of the discovering the region of
,	res due to one of the door interlocks tripping4
1 13 11616 - 1	e probably sabotaged it 21:16:
Well, I told them	
	best not be their fault
21:17:	
It looks like they	didn't listen
	ful - the FAA inspector was briefed by and was negative from the get go
	e number of DRs, not Boeing 'quality' etc
	appens when people fold when they should stand firm - integrity should not be cast aside when pressu
All of these issue	s are the 'intermittent' ones I said could kill us
	21:20:
	I wouldn't ever happen during eval
heresesel	g the FAA on the Binary, surely
21:21:	the least their Cal NOTA and the last this city is a TDU in a TDU in a Cal
Binary is now go	ing to get their first NQT/unacceptable but this will be blamed on TRU integration
And I don't diago	21:21:
	ree with the inspector at all: 115 declared DRs is unacceptable
21:21:	fully awars of which issues reside with whom?
res but are triey	fully aware of which issues reside with whom?
And I'm assumin	21:21: g we didn't declare any of the major issues he's finding
21:21:	y we didn't deciate any of the major issues he's finding
98 it got to	
- CO It got to	21:22:
Probably because	e Ihid 25 in "transit" between Binary and TRU
21:22:	Caracina 20 in training portroom 2 interfaces and 1110
A	hat I said to and which is why I said it shouldn't go ahead. There was no need to take this risk gi
there is no training	
[	
Worse	
This makes it ve	y likely UK CAA won't extend LGW
Where there is t	aining
21:23:	
Or CAAS/EASA	in Singapore - the house of cards is starting to topple
L	F 21:23:
The house of ca	ds built by SMS

ı	21:24:
	Sadly, a part of which I am
[	ž1:27:
	SMS PM
	⊉1:28:
	So much of the brown stuff is going to be thrown that I don't think anyone will be safe
ļ.,	ž1:29:
	No doubt
	Wanna come to Fleet Care?
_	21:30:
	Yep - can't work for any longer. He doesn't get it
ĺ	21:37:
	Should have hired you as the SPM instead of

From:	@boeing.com>
To:	Boeing Employees
Sent:	5/15/2018 12:09:52 PM
Subject:	Conversation with Boeing Employee
	17:37:
hey I need to car	tch you before this meeting
17:37:	
	TRB is going nowhere
17:38 Connected to	@boeing.com).
<b>17:48</b> Call with	pboeing.com) has ended. Duration: 00:09:58
	19:14:
I guess now is th	ne time to speak to any other issues that haven't bene mentioned
19:14:	
They have all be	en touched upon
	19:14:
ok	
19:22:	
Thanks be	·····
<u> </u>	19:39:
	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.
	19:43:
I think the right a	 Inswer is it's not ready. I think we could get through it, but we'd be doing it just to save face. The biggest
risk is that if the	FAA can't come back for 3 months it risks the program.
19:44:	
There is no pres	sing 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	ning a load that is >7 months old
[2] 보면 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ifferent 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.
They don't have	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
	remove the projectors, reclamp the lenses, refit them and realign them thereafter - that is going to be
time consuming	
	fied, how do we expect to turn around 7 day fixes ifis en-route to Singapore?
19:57:	tu icelt high anguah
5-3	ty isn't high enough
Thought so	

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
That flight directo	15:36: or definitely looks worse than it did before
15:37:	definitely looks worse than it and before
Thought it was ju	st my flying :)
I don't recall seei	ing it do that previously either - it was repeatable though
It pitched you into	15:37: 15:37:
15:37:	) a stail
Yes	
	15:37:
	where near that bad
	ou pitched down it followed you he pitch attitude too much
15:38:	profit attitude too miden
	ns when asked to fly at 45 degrees nose up - initially I tried to follow it religiously but then thought I'd be a
	inputs as it seemed like the FD was changed to within +/1 degree of the aircraft attitude ieve how bad it was - the first altitude on the route was 2000' and it blew through that by about 500'
	manding a descent
Consultation and Consul	15:40:
We have been try	ying to fix that for over 6 months
15:40:	
Will go back to th	ne training [iLC load] and see what it does
L don't see how the	his will get fixed next week
	ner" pilots can probably sign this off as no training effect
15:40:	
20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ice the FD commanding a descent during VNAV acceleration S/E - will see if you can do that when you
arrive No issue whatsoe	ever
	15:40:
We'll look at it ne	
	that 125' issue too
15:41:	I hope I get hit by a bus between now and then, really don't want to be there
k	pout that last night
	15:41:
What's his take?	
15:42:	
If he is honest, he Time will tell	e says he will back you and fall on his sword before you take a hit
	sed to TRU today but no information passed to myself, or phoned last night who
	e to the TRU engineer.
Commence	5:43:
	to be quiet, talk a back seat approach in meetings, and only talk specifics and metrics y? I thought it was every week, and the sprint closes today so the new binary should be released
tomorrow, right?	y: I thought it was every week, and the sprint closes today so the new billary should be released
L Foy Noil 15:45:	

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"	
15:46:	
Will be interesting	
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 re	eiected.
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	40 11.
15:49:	
I'm looking at sprint 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	
15:50:	22
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	
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	
15:51:	
Yup	
15:51:	
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	
15:52:	
Ok, that may help a little	
15:53:	
But still not the big-ticket items such as FUEL FLOW etc.	
¦15:53:	
They can downgrade to P4, but we still have to disclose anything with a flight deck effect on the F&S	
15:53:	
Am opening the IAN/FAC issues in DRDB also so that they don't get papered over	
15:53:	
That's a good idea	
15:54:	
Nope - if it is visible on the flight deck, I won't downgrade it	
15:55:	
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 a	illow him to
do it. If I need to, I'll email or send the full list to EASA/UK CAA	
15:56:	
Hopefully will support us.	
15:57:	
I think he has to otherwise, is position is untenable.	
15:57:	
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 thin	k about the
shit show	
I'll probably be on later to see how things are going	
15:57:	
Good for you! Enjoy your time with your family and safe travels tomorrow	
15:58:	
Thanks, see you soon	99

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

	From: To: Sent:	@boeing.com Boeing Employees 3/28/2018 8:21:29 AM	>	
	Subject:	Conversation with Boeing Emp	loyee	
Ľ	15:00: How you feeling?			
ľ	not had running at sligh	.: ntly slower speed than normal and a	hit care ctill	
ľ.	15:01:	iny slower speed than normal and a	The sort still	
ſ		ole shock - do the doctor's have any	idea what caused it?	
İ.	not vet - and bizarrely t	: he best outcome is they don't, and t	that it remains a one-off!	
į	15:02:	no best edition is they don't, and	that it formatio a one on.	
	Ergghhh - not a good re	esponse		
i.	15:20: All DRs are in TDMS in	SMO or Campus - LGW has a lot of	of DRs that insufficient information is provided -	they may
	become global but the i	instructors aren't helping with the br	evity of their responses	
	What is in SMO will be next 3 sprints	transferred to the campus closer to	o qualification but the plan is to have much of it re	esolved in the
1	15:42	<b>:</b>		
(2) <b>1</b>	on what is needed for reget-together with them!	aising DRs, plus some separate thin Understand totally about TDMS, E e if not resolved! - I'm just trying to f	e of ways - the updated DR process I'm writing ngs that came up with FT here at LGW where w CDs etc - it was us that arrived at the solution o figure out where to get the most 'objective' picture.	ve'll be having a of not tagging the
į	15:43:			
			ni device has very few device specific issues due	e to low usage
ŀ	i15:45 ok thanks il take it		otally now? Are you leaving MIA because of the	30 day thing?
	15:46:	you are row up man boing in this ca.	yearly norm, the year reasoning that account of the	ov aay amag.
		[발발] 사용을 하게 하면 아이는 이 이번 불발한 하다 이 사용하는 이 아이를 하면 있다. 이 이를 하게 하는 이 이 이 시간 사용을 하는 이 이 발발 시간 이 아이는 이 사용을 하는 이 이 이 이를	gs that include countless managers who have no Everybody is investing more time in blaming oth	
		are not included in sim support metri	of the data is in sync - nobody questions on the ics - how many are outstanding 5, 10, 500? It is	
144	Nobody questions how		be closed with the comment "this is a TRU integroof the BSP	ration issue" -
	15:49			No. 100 - 10
	그는 그들이 아들아 얼마를 하는데 하는데 하는데 그렇게 되었다.		n bit of a mind-shift in the past couple of weeks to little too late? - who knows at present!? Will b	[전경기 : [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]
Ī.	15:49:			
	Audit or conference? I won't - am leaving bef	are then I believe		
	QTG submittal to FAA i			
	15:51			
i	meeting with the FAA in  15:51:  OK	n ATL, then a verification audit visit t	o MIA in the 2nd half of the week	
	Thought you weren't me	eant to travel		
į,	15:53	:		
	I'm OK to fly, I just had for the week!	to cancel Shanghai as I was due to	depart the day after I left hospital and they sign	ned me off work

15:53:
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!!
15:56:
I bet - welcome to my world :)
16:04:
you chose it though!
16:09:
True
You got me there

From:	@boeing.com>
To:	Boeing Employees
Sent:	2/8/2018 8:25:29 PM
Subject:	Conversation with Boeing Employee
I feel like such	
03:36:	d Suckel
	ems to be the problem at Igw - not the switch i thought
116 100 - 1/0 366	03:36:
interestgin	
*interesting	
interesting	102-40-
	t have guessed that.
03:40:	t have guessed that.
nor i but it confi	me.
·	F 03:41:
Great! TRU will be the	re at 00 00
	Te at 05.00
03:41: Ok	
I	03:41:
Du tho way I w	
	ant a really honest assessment from you: are TRU really doing their job fully, and by extension, am I? ive now, and don't ever have to stop
	e sure I'm adding value, not just taking up space (especially since I'm clearly an awful FO)
03:43:	o date this duding value, not just taking up opage (sopeodary amount of an arrange of
	n't need to ask such silly questions. You are doing a better job than the PMs - if I ask you something, I get
*more received *	what I need. If I ask SMS PM, I get buggered with a banana
1	03:43:
That's a low ba	with the second
	but it's a fantastically low bar
	there are (at least) 97 DRs
	s is so out of date
not to mention a	all the issues at SHA
and the LGW N	I/AX has been AOG for damn near a week
03:44:	
	re disorganized, chaotic, dysfunctional, but hard working, honest, open to criticism [and there is a lot] but
no different to d	other TDMs but are cheaper and have to date, not failed to meet a major milestone
	03:44:
Thank you	
	er 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	
107	ause I miss my family so much when I spend so much time away.
	now much I appreciate your presence on this program. I've been trying to find a way to get you on the 777X
,	know how else we would succeed.
03:46:	DDs on LOW and that is the load phin, the bankware is humaned I half-up had become I was to I
	DRs on LGW and that is the lead ship - the hardware is buggered I believe but because I promoted a
	it is easier to blame that than fix the issue. That is due to misreporting by a campus that I held in regard but se-tinted glasses.
	orking so hard because you are trying to support your family - it doesn't seem like it to them and probably
	now, but in a few years, they will realise that whilst it seems you are abandoning them, they have each

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 102

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

These things cannot be underesitmated

	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	
	03:50:	
	Honesty is the only way in this job - integrity when lives are on the line on the aircraft and training programs should	In't be
	taken with a pinch of salt. Would you put your family on a MAX simulator trained aircraft?	111 50
	I wouldn't	
	D3:51:	
	No see that the se	
	03:52:	
	is probably the best person to talk to if you have reservations - mine are grave at the moment and I wo for you or being thrown under the bus. I do not believe at this rate the Level D deadline is achievable. How shave Boeing taken TRUs comments regarding the sound package? That is a critical Level D component that is going the wayside because we have asked TRU to tune to a poor quality data package	seriously
ī	D3:53:	
1,	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
	vote "no go" on the MIA iLC	Would
	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 know	an Lwall
	call over the weekend to have a frank discussion as to where we are	/11. 1 VVIII
	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 anything I can do to help you more here, please don't hesitate to ask.	
	03:58:	•
	At this stage, what else do we have - perhaps the Go-No Go should include the LGW instructors who use the devi	ice
	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	
	It's what keeps me floating	
	04:01:	
	I'm sinking to be honest	
	04:01:	
	I know - I'm trying to keep bring you and back to the surface	
ï	04:10:	
į	You OK? No problems at home? Make sure you spend some time at home this time before you go away again	
21		
Ĺ	04:11:	
	No, no problems at home	
	I just have these swings	
	04:12:	
e e	Get some rest - don't worry about waking up early tomorrow to take me in. I can catch a taxi	
-	04:12:	
	No, no	
	I'll be ready at the car at 6.15	
	Best part of the day, really	
	04:12:	
	Nahh - now I know you are kidding!	103

04:12:
No, seriously
<b>)</b> 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.
04:20:
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 yo from the Boeing	u entirely and agree with the whole failure to plan this program properly side.
no support - Si swapping some f	and tired of being put in the middle of this with pathetically week PMs and ngapore has done nothing except break the simulator - the PM here is now orm of isolator in the cockpit for reasons unknown - he has no training on thinks he knows what he is doing.
At this rate, I - I have had en	will not be returning to Miami this trip or coming out again to either site ough.
Original M	lessage
From: Sent: 24 April To: Subject: RE: Up	@boeing.com>
schedule simply the circumstant engineering sup 2017 despite my conservative".	t result of a pour plan which I objected to repeatedly since day 1. The did not permit for any corrective actions to be taken; particularly given ses of the program and for a device which is clearly undermaintained. No port was ever planned in Singapore as per the change order executed in fall objections when my initial proposals were refused for being "overly Moreover, given the need to extend residence in Miami, the Singapore always going to be small and take its cues from Miami. This was discussed.
caused recently	If the HW issues on MAX 2 were previously reported and a number of them were by the campus itself. I am doing my best to mitigate the situation (as I but there is a limit to what can be accomplished in 3 days.
submit the same be addressed in there is a limi	we will do our best to accommodate however the understanding was always to document as in Miami run on the same load. Whatever deficiencies exist will Miami 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 and with as well which needs to be our primary focus right now.
	sed by the outcome of the F&S. Nothing much has changed in 4 days so I g the F&S in Singapore to be any better than that of Miami. If anything it's I imagine.
We will continu	e to work out out issues but a lot of this is beyond our control.
FYI we are buil you release not	ding a new load this evening and offering another 6-8 DRs. I will forward es shortly.
Sent from mobil	e device.
[   	

From: Booeing.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 $\begin{bmatrix} & & & & & & & & & & & & & & & & & & $
Attached are the questions I would like answered.
From: Sent: 24 April 2018 15:21
To: Booeing.com>
Cc:   Subject: RE: Updated QTG
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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From: [@boeing.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 closur letters/SDSR responses - I have grave concerns as to whether the campus will submit it at this point in time.
Thanks,
Training & Professional Services
Property 1
Fax [ Plant   Plant
Training & Professional Services Global Services Tel

From:	Boeing Employee	
To:	Boeing Employee	
Sent:	2/20/2017 7:14:29 AM	
Subject:	RE: 777 ECL COC update request	
So they won't fix anythi	ng just like they don't in LGW, hence the large DR count.	
,,	, g,	
Makes sense		
From: Boeing Employe	and the state of t	
Sent: 20 February 2017 To:	/ 13.14 @boeing.com>	
L		
,		
Yes the holy trinity of sla	ackers	
From: Boeing Employee		
Sent: 20 February 201		
To:	@boeing.com>	
Subject: RE: 7	77 ECL COC update request	
Oh ok – who is on the o	course?	
?		
From: Boeing Employ		
Sent: 20 February 201		
To:	<u>@boeing.com</u> > 77 ECL COC update request	
Subject: RE: 7	TECL COC apaate request	
I think this bit is the mot	tion system so maybe they have someone coming from MOOG	
DATE OF A STATE OF THE STATE OF		
From: Boeing Employee		
Sent: 20 February 201	7 15:10	
To:	@boeing.com>	
Subject: RE: 7	77 ECL COC update request	
Don't know who is goin	g to do the training	
Don't know who is goin	g to do the training	
From: Boeing Employ	ree	
Sent: 20 February 201		
To:	@boeing.com>	
L	77 ECL COC update request	
They should be in Mian	ni from today for 6 days!	
E		
From: Boeing Employee	7.15.00	
Sent: 20 February 2017		
To: Subject: RE: 77	<u>@boeing.com</u> > 77 ECL COC update request	
Subject NE.	17 Lot 000 apadio regalest	108

No - they 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:boeing.com>
Subject: RE: - 777 ECL COC update request
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
Tasilina agency
Subject: RE: - 777 ECL COC update request
Fly home today – having the kitchen replaced on Thursday through to Friday next week 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 ofon 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 asked to submit the request

Honestly, you wouldn't believe it From: Boeing Employee Sent: 20 February 2017 12:15 To: @boeing.com> Subject: RE: 777 ECL COC update request 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: @boeing.com> Subject: RE: 777 ECL COC update request 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: @boeing.com> Subject: RE: 777 ECL COC update request Oh – Cheers for the heads up! I did think it was a bit of a strange request as all the engine fail procedures would not work properly. Thanks From: Boeing Employee Sent: 20 February 2017 11:54 To: @boeing.com> - 777 ECL COC update request Subject: RE: 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: A Cc: @exchange.boeing.com>; Subject: RE: 777 ECL COC update request

Hello

110

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 3) create 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: @boeing.com From: Boeing Employee Sent: 20 February 2017 01:18 To: @boeing.com> Subject: RE: - 777 ECL COC update request 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

@boeing.com

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



Sent: 19 February		
To:	@boeing.com>	
Subject: RE:	777 ECL COC update request	
Hello		
Trono [		
Thanks for informa	ation, waiting for update.	
Prade		
Brgds,		
From:	<u>@boeing.com]</u> ary 17, 2017 6:42 PM	
To:	Boeing Employee	
Cc: [ Bo	eing Employees	
Subject: RE:	- 777 ECL COC update request	
Hollo		
Hello		
We are still having	issues getting any of the checklists we have been sent to w	vork. One of the auvs is going to
	1 GE version that you sent over the weekend with all the diff	
	ne MODA part you are sending needs to be compatible with	
	h this checklist fitted we just get a 'Checklist Unavailab	
	enerate an AIMS2 BPV17 version of the RR ECL we previous	
see if they could go	cherate an Anno 2 Br v 11 version of the RR EOE we previous	ously were seril as there will
	s around engine failure drills etc even if we do get the GE c	
obviously be issue	s around engine failure drills etc even if we do get the GE c	
obviously be issue		
obviously be issue	s around engine failure drills etc even if we do get the GE c	
obviously be issue	s around engine failure drills etc even if we do get the GE c	
obviously be issue Best regards and I	s around engine failure drills etc even if we do get the GE c hope to have better news for you next week,	
obviously be issue  Best regards and I  Simulator Operation Boeing Flight Service	s around engine failure drills etc even if we do get the GE c hope to have better news for you next week,  as Supervisor ses	
obviously be issue  Best regards and I  Simulator Operation Boeing Flight Servic Gatwick Campus Rh	s around engine failure drills etc even if we do get the GE c hope to have better news for you next week,  as Supervisor ses	
obviously be issue  Best regards and I  Simulator Operation Boeing Flight Servic Gatwick Campus Ri Tel	s around engine failure drills etc even if we do get the GE c hope to have better news for you next week,  as Supervisor ses	
obviously be issue  Best regards and I  Simulator Operation Boeing Flight Servic Gatwick Campus RI Tel [	s around engine failure drills etc even if we do get the GE c hope to have better news for you next week,  as Supervisor ses	
obviously be issue  Best regards and I  Simulator Operation Boeing Flight Servic Gatwick Campus RI Tel Mob Fax	s around engine failure drills etc even if we do get the GE c hope to have better news for you next week, as Supervisor ses H10 9AD	
obviously be issue  Best regards and I  Simulator Operation Boeing Flight Servic Gatwick Campus Rh	s around engine failure drills etc even if we do get the GE c hope to have better news for you next week,  as Supervisor ses	
obviously be issue  Best regards and I  Simulator Operation Boeing Flight Servic Gatwick Campus RI Tel Mob Fax	s around engine failure drills etc even if we do get the GE c hope to have better news for you next week, as Supervisor ses H10 9AD	
obviously be issue  Best regards and I  Simulator Operation Boeing Flight Servic Gatwick Campus RI Tel Mob Fax	s around engine failure drills etc even if we do get the GE c hope to have better news for you next week, as Supervisor ses H10 9AD	
obviously be issue Best regards and I  Simulator Operation Boeing Flight Servic Gatwick Campus RI Tel Mob Fax	s around engine failure drills etc even if we do get the GE c hope to have better news for you next week, as Supervisor ses H10 9AD	
obviously be issue Best regards and I  Simulator Operation Boeing Flight Servic Gatwick Campus RI Tel Mob Fax	s around engine failure drills etc even if we do get the GE c hope to have better news for you next week, as Supervisor ses H10 9AD	
obviously be issue Best regards and I  Simulator Operation Boeing Flight Servic Gatwick Campus Ri Tel Mob Fax mailto:	s around engine failure drills etc even if we do get the GE c hope to have better news for you next week,  as Supervisor  es H10 9AD  aboeing.com	
obviously be issue  Best regards and I  Simulator Operation Boeing Flight Servic Gatwick Campus Ri Tel Mob Fax mailto:  From: Sent: 14 February	s around engine failure drills etc even if we do get the GE c hope to have better news for you next week,  as Supervisor tes H10 9AD  aboeing.com	
obviously be issue  Best regards and I  Simulator Operation Boeing Flight Servic Gatwick Campus Ri Tel Mob Fax mailto:  From: Sent: 14 February To:	s around engine failure drills etc even if we do get the GE c hope to have better news for you next week,  s Supervisor ses H10 9AD  aboeing.com	
obviously be issue  Best regards and I  Simulator Operation Boeing Flight Servic Gatwick Campus Ri Tel Mob Fax mailto:  From: Sent: 14 February	s around engine failure drills etc even if we do get the GE c hope to have better news for you next week,  s Supervisor es H10 9AD  @boeing.com  2017 04:56  @boeing.com> @boeing.com>	hecklist to work.
obviously be issue  Best regards and I  Simulator Operation Boeing Flight Servic Gatwick Campus Ri Tel Mob Fax mailto:  From: Sent: 14 February To:	s around engine failure drills etc even if we do get the GE c hope to have better news for you next week,  s Supervisor ses H10 9AD  aboeing.com	
obviously be issue  Best regards and I  Simulator Operation Boeing Flight Servic Gatwick Campus Ri Tel Mob Fax mailto:  From: Sent: 14 February To: Cc:	s around engine failure drills etc even if we do get the GE c hope to have better news for you next week,  s Supervisor es H10 9AD  @boeing.com  2017 04:56  @boeing.com> @boeing.com>	hecklist to work.

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:	Boeing Employee
To:	Boeing Employee
Sent:	6/1/2018 9:24:56 AM
Subject:	RE: MAX Simulator Program
I hear what you're creating this cultu	e saying, so I am willing to be the a-hole here and highlight this and call the Senior Leadership out for re.
	pplier side, someone made our bed so we just got to make the best of it and make sure we don't let the een again else, why waste our time doing an AAR.
I want to sit dowr unacceptable.	with you on Monday and discuss it and then I will let the team know that this type of behavior is
From: Boei	ng Employee ne 01, 2018 9:20 AM
To:	@boeing.com> AX Simulator Program
lose its qualifica	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 ct for
	ble are voting yes everyone has it in their head meeting schedule 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: <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a href="mailto:oboeing.com"> <a< th=""></a<></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>
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'.

Sent: Thursday, May 31, 2 To:	@boeing.com>;	
	eing.com>	<u></u> ;
Cc:	@boeing.com>	
Subject: MAX Simulator F		

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
  - 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.
- 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.

Regards,	
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Global Ser	vices
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