From:	Boeing Employee	
To:	\	
CC:	Boeing Employees	
Sent:	2/26/2013 12:48:44 PM	
Subject:	RE: Synthetic Airspeed	
Attachments:	737 Unreliable airspeed version 25 .pdf	
This is the latest dr checklist.	raft, however, we are far from validating this as the final version of the Airspeed Univ	eliable
Critical Action, Mer	the telecon today, an introduction of synthetic airspeed to the MAX would drastically mory Item Non-Normal Checklist. If synthetic airspeed is standard as opposed to a dize the Program directive to maintain Level B training for our customers.	
I've included	who is the lead Tech Pilot for the MAX.	
was on the MAX	Systems SAM call today, to listen to the proposal for the new I-ADIRU for the MAX.	and
	was brought up. First I had heard of it, so I mentioned the above to the group.	
Thank you,		
	-	
737 Technical Pilot		
~ Desk		
~ Mobile		
The state of the s	BOEINGEDGE	
BOEING	First Sprices	
	ngii servicie	
From: Boeing En	nnlovee	
Sent: Tuesday, Feb	ruary 26, 2013 10:36 AM	
To: Boeing Employe		
Subject: Synthetic	HEADT.	
Do you have a cop I've seen that one y	by of what the 737's Airspeed Unreliable checklist will be as a result of the SRP? I di yet.	on't think
	e to implement synthetic airspeed on the 737, particularly since it doesn't have I need to be different from the 787.	so the
Flight Deck Crew C	Operations	
THE RESULT OF THE		28
		1.0

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.

Here are the demographics questions that I plan to start the debrief with. This is considered the minimum set, and I plan to follow up for more details on their answers, depending on what they say.

The first document shows an outline of what questions are to be asked of each condition. For the no-RCAS condition, we plan on showing them details of RCAS after their flight and ask about their perceptions of its design and intended function.

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 Factors and Ergonomics
Boeing Commercial Airplanes
(office)
(work cell)

From:	Boeing Employee
To:	Boeing Employee
Sent:	7/23/2014 7:43:31 PM
Subject:	RE: RCAS testing of training
manufacturer's min tra	the box we're painted into with the Level B training requirements. Remember, this is just the aining required. Operators can elect to make the training more robust.
A bad excuse, but who	at I'm being pressured into complying with.
737 Chief Technical Pi	lot
- Desk	
~ Mobile	
BOEING	BOEING EDGE Flight Services
From: Boeing Employee Sent: Wednesday, July To: Boeing Employee Subject: RE: RCAS test	
Thanks. I fear that ski reliant on automation.	ill is not very intuitive any more with the younger pilots and those who have become too
From: Boeing Employee Sent: Tuesday, July 22 To: Boeing Employee Subject: RE: RCAS test	, 2014 8:27 PM
engine out operations changes. The path fo pointing the crews to t Level B. We need to	egy with Level B, and the ROLL/YAW ASYMETRY will most likely be seen frequently during as people don't have the plane in trim when coupling the autopilot and make speed/config rward we determined in fit tech was to only have a condition statement, with the training the FCTM guidance regarding proper trim technique. This is the path with the least risk to sell this as very intuitive basic pilot skill. That the alert is just drawing your attention to the at's our only chance of Level B.
thanks,	
and the same of	
LI	

737 Chief Technical Pilot
- Desk - Mobile
BOEING BOEING EDGE Fight 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 alleron 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
~ Mobile
O BOEING BOEING EDGE
BOEINE BOEINE Fight Services

From: Boeing Employee

Sent: Wednesday, July 16, 2014 1:43 PM
To: Beeing Employee
Subject: RE: RCAS testing of training

checklists and the FCTM guidance materials at your convenience.
Flight Training Development
Boeing Flight Services
Seattle Campus
Phonei
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/alleron 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 remains up the applicants and human factors falls to do a study to prove to the EAA that as assets then level
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
L
BOEING BOEING EDGE
Flight Services

We have set a goal of having a preliminary version of the CBT available at the end of October. We will take the

From:	Boeing Employee
To:	Boeing Employee
Sent:	12/18/2014 12:28:37 PM
Subject:	RE: Tomorrow
Nation State of the	
	e lose Level B which will be thrown squarely on my shoulders. It was yes ! Who nillions of dollars! Burn him at the stake! Oh well, someone will have to pay
would be happy for	that 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 lar would SERIOUSLY suck.
Oh well, we'll get throu	ugh whatever challenges we face. GET 'ER DONE!
[
737 Chief Technical Pi	ilot
- Desk	
- Mobile	
& BOEING	BOEING EDGE Fight Services
From: Boeing Em Sent: Thursday, Decen To: Boeing Employee Subject: Re: Tomorron	nber 18, 2014 12:24 PM
Cool, the bribes we	paid to keep you in the group worked!
	ne you'll be able to write your own ticket.
	Berry 10 smartphone.
From: Boeing Employer Sent: Thursday, Decer To: Boeing Employee Subject: RE: Tomorro	nber 18, 2014 12:03 PM
Sounds good, cya tor	morrow.
FYI, I'm not getting the	e 2 nd interview, so you're stuck with me
737 Chief Technical Pi	ilot
- Desk	
- Mobile	MARKET .
BOEING	BOEING EDGE 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
BOTH Services

From:	Boeing Employee
To:	Boeing Employee
Sent:	5/1/2015 7:08:53 AM
Subject:	RE: Concerns with Training Development proposal for MAX
acknowledged the the flat panel train	on the discussion with TD and the larger team, I am fine with the path their on. Everyone are is some risk to the new style of training, but it shouldn't be a show stopper. My concerns with mer are alleviated, only by the fact that they must develop some sort of device for the full transition are unavoidable, it is a risk we must live with for level B differences course for NG to MAX.
Thank you,	
737 Chief Technic	al Pilot
Desk	
- Mobi	le
Q BOEING	BOEING EDGE Flight Services
From: Boeing Emp	loyee
To: Boeing Employe	*** *** *** *** *** *** *** *** *** **
Subject: Re: Conc	erns with Training Development proposal for MAX
Thanks,	
Please let me kr	now what you think after you visit with
Best,	
Chief Dilet Dee	des Eliabil Condess
Mobile	sing Flight Services
Executive Assist	tant
From: Boeing Empl Sent: Tuesday, Ap	loyee : pril 21, 2015 11:50 AM
To: Boeing Employe Subject: RE: Cond	erns with Training Development proposal for MAX
j	
	good chat. I think we'll just sit and listen to the latest pitch tomorrow from There's no way ling some sort of flat panel trainer for the full transition course, we'll just have to accept the risk of
The second second second	and a contract the contract of

A STANFOLD SERVICE	25.00 PM (1 - 20.00) 16 TM (20.00) 17 M (20.00) 10 M (2
Thank you,	
L	
737 Chief Technical P	ilot
- Desk	
~ Mobile	
Q BOEING	BOEING EDGE Fight Services
From: Boeing Employee	
Sent: Friday, April 17, To: Boeing Employee	2015 6:07 PM
	with Training Development proposal for MAX
As you would expect,	paints this in a very positive light, so he didn't really do much to highlight your
concerns.	pains as ma ray positive light, so he desire rouny do make to highlight you
	ld be for you to get together with and probably and/or
	nat all of us in Flight are speaking with a common voice. Please include if you
can.	
Once you've got a co	mmon point of view from that group for Flight, feel free to run with that message.
Thanks,	
From: Boeing Employ	terp lead
Sent: Friday, April 17 To: Boeing Employee	, 2015 1:56 PM
The state of the s	ith Training Development proposal for MAX
- Cabject: Consums w	an Halling Development proposal for Milit
Co-main and and	
regards to Training De already shared my co	ed me to coordinate with you and make sure you're ok with me highlighting my concerns with evelopment's desired plan for Code 1 customer MAX training. I believe has incerns with you, but I want to make sure you are ok with me bringing them up at next g to discuss this topic.
My concerns are two-	fold.
E-111	The state of the s

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.

First, I have concerns with moving away from a predominantly CBT-based training course, which has been the Boeing standard for many years, back to an Instructor-led course. While I agree with this in principle, the fact is, we're dealing with new regulators in both the AEG and the Miami TCPM offices, so attempting to certify the MAX course for initial type certification carries with it unnecessary risk. The AEG in particular has been very difficult to deal with thus far as you know. Second, I am concerned with the development of these DTTs for the training. I know is selling these as only required for the Code 1 full transition course, but I fear the old Field of Dreams adage of, "If you build it, they will come". In other words, I fear the AEG will find out we have these great interactive desk top trainers and try and mandate them for use in the NG to MAX differences course, which we have a contractual obligation to to ensure the training does not exceed greater than 2 days of Level B (CBT) differences training. While this argument has no logical basis from the AEG's perspective, thus far in our negotiations we have seen many instances where logic and reason do not prevail with the AEG.

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

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

From:	Rooing Employees
To:	Boeing Employees
Sent:	8/18/2016 8:11:57 AM
Subject:	RE: MAX Differences Training approved at Level BIIIII
being developed AEG to re-write	fill be less than 4 hours. We don't define times in the FSB, only the training level. The FSB is I in the near future. There is a new FSB format, and we'll be working collaboratively with the it, to include incorporation of the MAX into it. The draft won't be ready until after type cert in the We expect the comment period and everything to be done by the end of the year.
OSD report. Th	oted the FAA/TCCA's findings, so the EASA requirement will be the same, as written into their e CAAC has already said they'll accept the FAA's findings. We'll probably have to go to other id the world to jedi-mind trick them into accepting the FSB findings, but that shouldn't be hard.
737 Chief Technic	al Pilot
() BOEI	NE
From: Boeing Sent: Thursday,	Employee August 18, 2016 7:54 AM
To: Subject: RE: M	@boeing.com>;
	Nonetheless, it is 1-training-day (union and non-union alike – haha). Is the training 'footprint' in aft stage (1-training day)? Is the FSB report in the public comment stage or has that already
Also, what are to we need to know	ne details on the EASA report? Same/more/less?? Are there any issues with JCAB or TCAC v??
	Il be in touch soon with more understanding of details. This is a big part of the operating cost product marketing decks, and is at the heart of \$\$\$ anaylses.
Again, NICE JO	B!!
From: Boeing E	
To:	ay, August 17, 2016 1:43 PM @boeing.com>; @boeing.com>
Cc:	@boeing.com>; @boeing.com>;
	@boeing.com>; @boeing.com>;
	@boeing.com>; @boeing.com>; 11

Cubicate DE: MAY Difference	THE PERSON NAMED IN COLUMN 1	
Subject: RE: MAX Difference	es Training approved at Level B!!!	
hours (call it less than 4 if yo		or tweaks to it, but not enough to bust through 3 ecial currency issues or formal checks of any sort el B.
737 Chief Technical Pilot		
From: Boeing Employee Sent: Tuesday, August 16, 2	7 2016 3:43 PM	
To:	@boeing.com>;	@boeing.com>
Cc:	@boeing.com>;	boeing.com>;
	@boeing.com>:	@boeing.com>;
Access to the second se	boeing.com>:	@boeing.com>:
Subject: RE: MAX Difference	. <u>com</u> > ces Training approved at Level B!!!	
Hey[],		
And, just to confirm, there are and MAX you can be aw	re absolutely no formal checks? A ray from an NG for 30-years and st	of CBT endorsed and in stone by FAA (AEG)? Ind., no functional currency issues between NG III be able to jump into a MAX? LOVE IT!!
yep, those are the details us	product marketing twits need to ke	now! LOL.
from flight training, technical	, & standards (as we were called in	us 757-300, 767-400, and 777-200LR team bros those days) went out and got really DRUNK Call me if you bros need cabs tonight!! Haha.
THEN, we got really DRUN	(when the JAA (now EASA) appro	vals came in!!
GOOD on you all!!		
CONGRATS!!		
and the BCA Product	Marketing Team	
From: Boeing Employee Sent: Tuesday, August 16, 2	2016 2:48 PM	
To:	@boeing.com>: [@boeing.com>;
	@boeing.com>;	@boeing.com>:
(@t	ooeing.com>;	@boeing.com>;
@boeing.com		@boeing.com>;
@boeing.c		@boeing.com>;
@boeing.com		@boeing.com>
@boeing.com> @boein	* * · · · · · · · · · · · · · · · · · ·	@boeing.com>;
RODOEIII	@boeing.com>;	Reproduit contra
(a) b	peing.com>;	@boeing.com>;
gupoema	.com>;	@boeing.com>;

I WOOdil	ng.com>;	@boeing.com>;
	ng.com>;	@boeing.com>;
@bi	peing.com>;	@boeing.com>;
	eing.com>	Nanapar (100)ma mineral and
Cc:	@boeing.com>;	@boeing.com>;
@boeing.co		@boeing.com>;
	@boeing.com>;	@boeing.com>
	@boeing.com>;	@boeing.com>:
	l@boeing.com>;	@boeing.com>;
establishing the 737M (Computer Based Train This is provisional apportunity of the airplant documenting the Joint and EASA are now computer that the state of the same of the	AX as the same type rating as t ining. CBT) differences training proval, pending final Part 25 Type. The FAA will be sending us to Flight Operations Evaluation Bonsidered to have accepted this	e Certification, and assuming no significant systems a Provisional Approval letter within the next 2 weeks, oard acceptance of this finding. FAA, Transport Canada, Level B determination.
	nical Data, Training Developmen g and of course s Eng	aborative efforts across many business units. Flight nt, Flight Deck Crew Ops, All MAX engineering teams, gineering Test Pilot team all should be commended for
	and 737 Program Communicat rovisional approval letter.	ions are jointly craffing a BNN article to be released upor
	Il your collective support.	
Thank you again for a	7	

From:

Boeing Employees

To:

6/5/2017 8:02:55 PM

Sent: Monday, June 05, 2017 7:57 PM

Subject:	RE: 737 MAX ATB/RTL FOTB
Welcome to my	world, the never-ending nightmare
737 Chief Technica	al Pilot
Q BOEI	NG
To:	Employee une 05, 2017 8:02 PM @boeing.com> 7 MAX ATB/RTL FOTB
I am sorry to hea	ar that.
To:	une 05, 2017 8:01 PM i@boeing.com> 7 MAX ATB/RTL FOTB
737 Chief Technica	al Pilot
BOEI	NG .
To:	une 05, 2017 7:59 PM @boeing.com> 7 MAX ATB/RTL FOTB
I COULD ASK Y	OU THE SAME THING!
From:	

Subject: RE: 737 MAX ATB/RTL FOTB	
Why are you still working at 8pm???? STOP!!!	
737 Chief Technical Pilot	
Q BOEING	
From: Boeing Employee] Sent: Monday, June 05, 2017 7:57 PM	
To: @boeing.com>;	@boeing.com>
Cc: Doboeing.com>; Subject: RE: 737 MAX ATB/RTL FOTB	@boeing.com>
Thank you	
From: Boeing Employee	
Cents Manday Isra DE 2017 7:56 DM	
Sent: Monday, June 05, 2017 7:56 PM	
To: @boeing.com>;	
@boeing.com>	
Cc: @boeing.com>;	@boeing.com>
Subject: RE: 737 MAX ATB/RTL FOTB	
The 230pm time tomorrow you sent via calendar invite works for me. I accepted.	
737 Chief Technical Pilot	
L	
() BOEING	
From: Boeing Employee	
Sent: Monday, June 05, 2017 5:13 PM	
To: @boeing.com>;	@boeing.com>
Cc: @boeing.com>;	@boeing.com>
Subject: RE: 737 MAX ATB/RTL FOTB	
Helio	
I am habita at antique de la company	The Diet of the Control of the Contr
I am looking at scheduling a meeting between you, some Aero staff and son have reviewed the bulletin, and have questions, that are best discussed in a meeting situation.	ne Floe Staff as we speak, We ion.
I have a hard time finding an opening in''s schedule, maybewants to delegate?	Since Flight Technical is essential
to this discussion I would like to schedule around s (or delegate) availability	
Hello	

Thank you,			
From: Boeing Employee			
Sent: Monday, June 05, 2017 5:01 PM			
To:	@boeing.com>		
Subject: RE: 737 MAX ATB/RTL FOTB	The state of the s		
How is your FOTB review coming® Do you	u bavo an ortimato a	r to whon your will have a re	roonro? Thoro oro
several people on the distribution list from			
more sense for you to coordinate with a			
want to do their own mark-up versions?			
ol manager and			
From: Boeing Employee			
Sent: Friday, June 02, 2017 3:43 PM			
	peing.com>;	· · · · · · · · · · · · · · · · · · ·	boeing.com>;
To the same of the	@boeing.com>:		@boeing.com>:
	@boeing.com>	C1111111111111111111111111111111111111	
Cc:	@boeing	1.com>:	
@boeing.com>;		@boeing.com>;	
@boeing.com>;		@boeing.com>	
@boeing.com>;			@boeing.com>;
@boeing.com>;		@boeing.com	h
Subject: RE: 737 MAX ATB/RTL FOTB			
F			
I have reviewed and made comments	in the attached copy	of the draft, some of which	should address the
CS-AWO 2.5% gradient implication that [
needing to review it, so this isn't necessa			
changes and send a new draft out for e			
FOTB and are trying to focus on the deta	als at this point. And th	ey are a bit hard to see in the	ns current markup
form.			
From: Boeing Employee			
Sent: Friday, June 02, 2017 3:33 PM	200 S 2000		
To:	@boeing.com>;		@boeing.com>;
	@boeing.com>;		@boeing.com>;
	@boeing.com>		
Cc:	@boeing	Terretories and the second and the s	***************************************
@boeing.com>;	***************	@boeing.com>;	-
@boeing.com>;		@boeing.com>	@boeing.com-;
@boeing.com>;		@boeing.com	
Subject: RE: 737 MAX ATB/RTL FOTB		Part of the latest the	

[1			
737 Chief Technical	Pilot			

~ =====				
DBOEIN				
passesses	********			
From: Boeing Em				
A facility fraction of adolesched property of the state of	02, 2017 12:34 PM			
То:	The Control of the Co	ng.com>;		@boeing.com>; @boeing.com>;
		Doceing com>;		in/oceing.com
Cc:	****************	@boeing	com>-[
A RESIDENCE AND ADDRESS OF THE PROPERTY OF THE PARTY OF T	boeing.com>:	Manual M	@boeing.co	m>·
	@boeing.com>;		@boeing.c	
	boeing.com>;	1		@boeing.com>;
	@boeing.com>;		@boeing.d	com>
Subject: RE: 737	MAX ATB/RTL FOTB			
			4	
Another note from	my perspective after a re	ecent chat with	<u>}</u>	
What wisht unt ha	along hour is solved ODT	a ask offer abouting	with any on around about	ali an the assessed bandless
A SOLIT THE RESERVE TO			The state of the s	ck on the enroute landing
				OPS (once again renamed
	e I can't remember right			
				orities. This option sits on
	existing check of approach		The second secon	the state of the s
	ld mainly affect those ope			
THE RESERVE THE PROPERTY OF THE PARTY OF THE	ome FAA operators also u		t's the only way then ca	in check go-around
performance at the	ose airports that are more	challenging.		
For those operator	s that elect not to implem	ent the go-ground c	heck they would maffe	ected by the above
The state of the s	ut would still have their n		The state of the s	A CONTRACTOR OF THE PROPERTY O
go-uround iddic, o	ar from Sur have men	or man approach and	minding chino minds chi	concu
h				
Francisco En				
From: Boeing Em	02, 2017 6:49 AM			
To:		ng.com>;		@boeing.com>;
10:1		Doeing.com>;		@boeing.com>;
		@boeing.com>	***************************************	International Control
Cc:	***************	@boeing	com>:	
A SECRETARIA DE LA CONTRACTOR DE LA CONT	boeing.com>;	Eccopia di	@boeing.co	m>:
	ගිboeing.com>:		@boeing.c	
	boeing.com>;			@boeing.com>;
1	@boeing.com>.		@boeing.c	
Subject: RE: 737	MAX ATB/RTL FOTB			
Pannany.				
Hi				

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

rom: Boeing Employee	
Sent: Thursday, June 01, 2017 4:09 PM	
	Dboeing.com>:
The state of the s	@boeing.com>;
Co: [@boeing.com>:
@boeing.com>;	@boeing.com>;
Dboeing.com>	@boeing.com>;
@boeing.com>;	@boeing.com>;
@boeing.com>;	@boeing.com>;
@boeing.com>	
Subject: RE: 737 MAX ATB/RTL FOTB	
Ok, latest and greatest iteration of the RTL FO	OTB, based on what I understand have all mendations. It assumes that we elect to hold off on publishing this
procedure until we get that approved, or may else).	be send out 2 separate FOTBs, one for EASA, one for everyone
	eviewed/answered, and please do review the deletions and addition. Please everyone in the TO and CC line do this review.
Il let determine when he wants to have t	this review done by. Obviously the sooner the better.
	and restore delicity. Correctly the desires are better.
Thanks all.	
Thanks all.	
Thanks all.	
Thanks all. 37 Chief Technical Pilot	
Thanks all.	
Thanks all. 37 Chief Technical Pilot	
Thanks all. 37 Chief Technical Pilot	
Thanks all. 37 Chief Technical Pilot From: Boeing Employee	
From: Boeing Employee Sent: Thursday, June 01, 2017 11:05 AM	
From: Boeing Employee Sent: Thursday, June 01, 2017 11:05 AM	g.com>;
From: Boeing Employee Sent: Thursday, June 01, 2017 11:05 AM To: Doeing	g.com>;
From: Boeing Employee Sent: Thursday, June 01, 2017 11:05 AM To: Doeing Employee	g.com>; @boeing.com
From: Boeing Employee Sent: Thursday, June 01, 2017 11:05 AM To: @boeing	g.com>; pa.com>; pa.com>;
From: Boeing Employee Sent: Thursday, June 01, 2017 11:05 AM To: Discourse	g.com>; @boeing.com @boeing.com>; @boeing.com>;
From: Boeing Employee Sent: Thursday, June 01, 2017 11:05 AM To: Doeing Employee Doeing Com>: Doeing Com>: Doeing Com>: Doeing Com>:	@boeing.com>; @boeing.com>; @boeing.com>;
From: Boeing Employee Sent: Thursday, June 01, 2017 11:05 AM To: @boeing.com> @boeing.com> @boeing.com>; @boeing.com>;	g.com>; @boeing.com @boeing.com>; @boeing.com>;
From: Boeing Employee Sent: Thursday, June 01, 2017 11:05 AM To: @boeing.com> @boeing.com>: @boeing.com>: @boeing.com>: @boeing.com>:	@boeing.com>; @boeing.com>; @boeing.com>;
From: Boeing Employee Sent: Thursday, June 01, 2017 11:05 AM To: @boeing.com> @boeing.com> @boeing.com>; @boeing.com>;	@boeing.com>; @boeing.com>; @boeing.com>;
From: Boeing Employee Sent: Thursday, June 01, 2017 11:05 AM To: @boeing.com> @boeing.com> @boeing.com> @boeing.com> @boeing.com> @boeing.com> @boeing.com> @boeing.com>	@boeing.com>; @boeing.com>; @boeing.com>;

From:	Boeing Employee
To:	@faa.gov; @faa.gov
Sent: Subject:	2/9/2018 8:59:20 AM
oubject.	RE: Template question
Maybe can spear	ead that effort on the 787-10!!!! Go Gol
737 Chief Technical Pilot	
BOEING	
From: @fa Sent: Friday, February (
To: Subject: RE: Template	@boeing.com>; @faa.gov juestion
timing. I think unt	if I have the skills to jedi mind trick 280 until we have a lull in revision the MAX evaluations are complete, we don't have a dog in that fight nce we have set already.
hiation Safety Inspector, O	erations Specialist
Seottle Aircraft Evaluation	<i>гонр</i>
is know how we did. Select Large Transport Aircr	eck to improve the services we provide. Please take a few moments to visit the website shown below to be it Seattle AEG from the pull-down menu before writing your comments. Thank you, it/office_org/headquarters_offices/avs/stakeholder_feedback/afx/afs100/
We will be moving to a r	ew building on Feb. 26th. As of Feb. 26th please use the following information to contact
me:	
From: Sent: Friday, February (@boeing.com]

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
DEING
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.
militar any bit a and new the negotiation to open for allocation.
Adation Safety Inspector, Operations Specialist
FNB/FOFB Chair B-737
Seattle Aircraft Evaluation Group
1
We value your feedback and seek to improve the services we provide. Please take a few moments to visit the website shown below to le
us know how we did.
Select Large Transport Aircraft Seattle AEG from the pull-down menn before writing your comments. Thank you https://www.faa.gov/about/office_org/headquarters_offices/avs/stakeholder_feedback/afx/afs100/
We will be moving to a new building on Feb. 26th. As of Feb. 26th please use the following information to contact
me:
[
,
From: FAA Employee (FAA)
Sent: Friday, February 09, 2018 8:30 AM To: @faa.gov>
Cc: @boeing.com>
Subject: RE: Template question
Funny you ask. I have not submitted a -10 787 FSB report yet. I will not do that until they publish the rewrite one
first. I do not want to muddy the waters what we are "negotiating" about. I am keeping a record of the many hour
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.
NIGHT WE STREET STEEL ST

Aviation Safety Inspector, Operations Specialist PSB/FOFB Chair B-777/787
Seottle Aircraft Evaluation Group
Secure Arcraft Established Colop
We value your feedback and seek to improve the services we provide. Please take a few moments to visit the website shown below to let us know how we did. Select Large Transport Aircraft Seattle AEG from the pull-down menu before writing your comments. Thank you https://www.faa.gov/about/office_org/headquarters_offices/avs/stakeholder_feedback/afx/afs100/
From: FAA Employee (FAA)
Sent: Thursday, February 08, 2018 3:07 PM
To: @faa.gov>
Cc: @boeing.com>
Subject: FW: Template question
what say you?
mar oay you.
Aviation Safety Inspector, Operations Specialist
FSB FOEB Chair B-737
Seattle Aircraft Evaluation Group
THE THE TAX TO THE TAX TO THE TAX THE
We value your feedback and seek to improve the services we provide. Please take a few moments to visit the website shown below to le
us know how we did.
Select Large Transport Aircraft Scattle 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/
Mary all the contributions of the Market of Each Court As a FEEL COURT of the contribution of the factor of the contribution o
We will be moving to a new building on Feb. 26th. As of Feb. 26th please use the following information to contact
me:
From: @boeing.com
Sent: Thursday, February 08, 2018 1:38 PM
To: @faa.gov>
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
To:	Boeing Employees
Sent:	4/24/2018 8:24:12 AM
Subject:	RE: BBJ 8 flight test update
give them the pro we propose is a	hook 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 oceptable IAW AC 120-53B. I was able to jedi mind trick them that there is enough commonality he -800 BBJ, that they could just do the -8 BBJ by analysis. Same for EASA and TCCA. It's all
737 Chief Technic	al Pilot
BOEI	NG .
Sent: Tuesday, /	Papril 24, 2018 8:20 AM
To:	@boeing.com>:
Subject: RE: BE	@boeing.com> 3J 8 flight test update
It was busy, no d	oubt. What did AEG want to flight test??
and the second s	April 24, 2018 8:18 AM
To: { Subject: RE: BE	@boeing.com>; @boeing.com> BJ 8 flight test update
	jammed on that bird! Nice job! I convinced the AEG to do the Operational/Training approval by ith the -7 and -8200. So there shouldn't be an AEG flight test need on your bird.
Thanks for the u	odate.
737 Chief Technic	al Pilot
BOEI	NG

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

To:	@boeing.com>;
Subject: RE: BBJ 8 fligh	ng.com> est update
н(]	
1C001, first BBJ MAX 8, for aux tank STC and we Completed the following C5.04.AAJ – FMCS Pola C5.15.ABA – Airstair Flig C5.08.AAE – ISFD with C5.15.AAZ – Advisory Id	light test here at KBFI - Region Demo t Deck Indication IAV Demo
From: Boeing Employ Sent: Monday, April 23, 2 To: @boe Subject: BBJ 8 flight tes	18 3:49 PM (@boeing.com>;
	ything about the -8 BBJ flight test lately. Did you guys have first flight? Program on st supposed to finish for it?
Thanks,	
737 Chief Technical Pilot	
BOEING	

From:	Boeing Employee
To:	Boeing Employees
CC:	
Sent:	6/12/2015 4:42:02 PM
Subject:	RE: Slide For RCAS Training Wording
there isn't a difference	he training is the important thing, and that it is on at least one of their NGs, this establish between what they're trained for on the NG and the MAX, regardless of how many NGs ow it sounds hokie, but that's the game we have to play with the regulators.
737 Chief Technical P	J ot
BOEING	BOEING EDGE Fight Services
From: Boeing Employee Sent: Friday, June 12, To: Boeing Em Cc: Boeing Em Subject: RE: Slide For	······································
Hi [}	
am a bit slow	
So CBT is planned fo	in 2016 for NG pilots taking 737 MAX in 2017 to eliminate differences training, correct?
Why only 1 NG is req RCAS?	ired for RCAS active and not an entire in-service NG fleet before taking their 1st MAX v
Regards,	
Business Development	
Modification Services	
Boeing Commercial Ain	ane
	1
	1

www.boeing.com/modservices

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From: Boeing Employee

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

To: Boeing Employe Subject: RE: Slide For RCAS Tra	
the option as soon as possible deliveries, as they'll need all o	we need to have retrofit available, and preferably free, to get our customers to take e. Realize the only real time constrained NG operators are those with 2017 MAX f 2016 to get their pilots trained on RCAS prior to turning the system on, on at least 7 ahead of their first MAX delivery. So whether they take it in production or retrofit, pilots are all trained.
737 Chief Technical Pilot	
O BOEINE BOEIN	NG EDGE Flight Services
From: Boeing Employee Sent: Friday, June 12, 2015 3:3 To: Cc: Boeing Employee Subject: RE: Slide For RCAS Tra	es
Wording looks good.	
The state of the s	eduling concerns with the statement that all MAX/NG customers need to be trained to ustomers will not be getting an NG delivery after RCAS certification.
I do not have any follow on sli	des to address any schedule impact questions for retrofit that might be posed.
is there a schedule challenge t	for retrofit?
Business Development	
Modification Services	
Boeing Commercial Airplane	

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From:	Boeing Employee
Sent: F	riday, June 12, 2015 3:25 PM
To: E	Soeing Employees
Subjec	t: RE: Slide For RCAS Training Wording

How's this



To: Boeing Employee
Subject: Slide For RCAS Training Wording
HI[]
Attached is the slide for the subject wording.
Regards,
Business Development
Modification Services
Boeing Commercial Airplane
1

www.boeing.com/modservices

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From:	Boeing Employee
To:	Boeing Employees
CC:	the second property of the print print and a first and a second print of the second pr
Sent: Subject:	3/28/2017 9:00:58 AM RE: Flight Transition costs
transition from NG to make that a req particular experien additional training who's already flow get 100 hours on tillying the MAX with that the MAX is so	e importance of holding firm that there will not be any type of simulator training required to to MAX. Boeing will not allow that to happen. We'll go face to face with any regulator who triuirement. If a particular customer wants to add additional training due to concerns with their ce level of their pilot group, then that is an internal issue to that airline. But in actuality that should be limited to perhaps requiring the first officers first flight on the MAX to be with a captain it once, or maybe like what
To: Cc: Subject: RE: Flight	Boeing Employees
them on board with FAA is pretty power	old firm at \$0. It to broker a meeting between our Flight Tech group (and co) and TTCAA, to get the guidance from the FAA (ie. no Check needed). Find and most countries defer to what the FAA does (except for the National Authorities that are ages. Eg. JCAB, ANAC)
Thanks.	
From: Boeing En	nployee] ch 24, 2017 2:36 PM
To:	
Cc:	Boeing Employees
Subject: RE: Fligh	

То:	Boeing Employees
From: Boeing Emplo Sent: Friday, March	en cruca
I have re-attached the	e proposed PDF file again.
	did a deeper dive with them back in September of 2016 (see trip report attached, WORD when the issue of TT CAA Sim session first came up.
	correct, but the assumption is thatbrews = [persons
HI	
Subject: RE: Flight	ransition costs
Ce:	Boeing Employees
Sent: Friday, March. To:	
From: Boeing Emplo	yee
Thanks,	
receive? Can they to	ake one CD-R and load it to 20 computers?
an you coordin	ate with to see how many licenses of NG-MAX differences CBT will
This is a 'worst case	" as Level B training doesn't require a "check ride" but regulators can be quite conservative.
On the high end: [] "proficiency check" in	crews training on CBT for one day in MIA. Then one day in the FFS (4 hours) for a
On the medium end:	crew sets training at home with CBT (no Check required).
SECTION OF THE PROPERTY OF THE	idea to provide a cost range, as we do not know how the regulatory discussions will turn out.
Your files really clear	
Thank	
Subject: RE: Flight 7	Fransition costs
Cc:	Boeing Employees
Sent: Friday, March	24, 2017 2:34 PM
From: Boeing Empk	ovee
Thoughts appreciate	d
Airbus is throwing mo scenario?	oney at the flip, so might a good strategy be to hold firm on the logic of the lower end
	hey will ask us to provide financial support to cover the worse case scenario As you know,

Boeing Employees
Subject: FW: Flight Transition costs
Hello
I have the same concerns as you.
Here are my questions/clarification we need from 1)crews =pilots? 2) The NG to MAX course is 2 Hours they can train in their own base and not require a "Sim Session" in MIA. I got confirmation fromthat the course is only 2 hours. There's no need to allocate "2 days duration" of hotel+perdiem for offline time. 3) We're almost at the point we can say it will be zero dollars in crew salary cost for offline time. If they want us to do the math for them, I'd need to know how much their daily crew hourly cost is, and I'll multiply that \$xxx/HR x 2 hours xpilots.
Thanks,
From: Boeing Employee Sent: Friday, March 24, 2017 1:55 PM To: 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 Hotel + Perdiem		rews 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 concems.

Sales Director, Africa & Caribbean Boeing Commercial Air	planes

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P Please consider the environment before printing this email

To:	Boeing Employee
10.	Boeing Employees
Sent:	6/7/2017 3:47:26 PM
Subject:	RE; MAX LEVEL B DIFFERNCES SOLUTION
100 C C C C C C C C C C C C C C C C C C	ou to negotiate piece in the Middle East next. Goes to show what a little bit a accurate info can
do to sway an op	erator in the right direction
From: Boeing En	
	y, June 7, 2017 10:01:41 AM
To: [Boeing Employees
Subject: FW: MA	X LEVEL B DIFFERNCES SOLUTION
Looks like my jed	i mind trick worked again!
These are not the	droids you're looking for
737 Chief Technica	I Pilot
A BOEII	VC
PBOEI	VG
From:	
From: Sent: Wednesda	y, June 07, 2017 12:12 AM
From: Sent: Wednesda To: (
From: Sent: Wednesda To: (Co:	y, June 07, 2017 12:12 AM @boeing.com>
From: Sent: Wednesda To: (Co:	y, June 07, 2017 12:12 AM
From: Sent: Wednesda To: (Co:[Subject: Re: MA	y, June 07, 2017 12:12 AM @boeing.com>
From: Sent: Wednesda To: (Co: Subject: Re: MA Dear	y, June 07, 2017 12:12 AM @boeing.com> X LEVEL B DIFFERNCES SOLUTION The presentations and I accept and agree the training requirement for Boeing Max as CBT is
From: Sent: Wednesda To: (Co: Subject: Re: MA Dear	y, June 07, 2017 12:12 AM @boeing.com> X LEVEL B DIFFERNCES SOLUTION The presentations and I accept and agree the training requirement for Boeing Max as CBT is
From: Sent: Wednesda To: (Co: Subject: Re: MA Dear I have received the	y, June 07, 2017 12:12 AM @boeing.com> X LEVEL B DIFFERNCES SOLUTION
From: Sent: Wednesda To: (Co: Subject: Re: MA Dear I have received the source for transite those presentations are continuous cont	y, June 07, 2017 12:12 AM @boeing.com> X LEVEL B DIFFERNCES SOLUTION The presentations and I accept and agree the training requirement for Boeing Max as CBT is from B737800 to Boeing Max. Sons you send me was very helpfull. / CAT III and ETOP B 737 training materials can i have it for free or any sugestion to have those
From: Sent: Wednesda To: (Co: Subject: Re: MA Dear I have received the source for transite the source for transite the segarding CAT in training material for the segarding can be segarded to the	y, June 07, 2017 12:12 AM @boeing.com> X LEVEL B DIFFERNCES SOLUTION The presentations and I accept and agree the training requirement for Boeing Max as CBT is from B737800 to Boeing Max. Sons you send me was very helpfull. / CAT III and ETOP B 737 training materials can i have it for free or any sugestion to have those
From: Sent: Wednesda To: (Co: Subject: Re: MA Dear I have received the source for transite the source for transite the segarding CAT in training material for the segarding can be segarded to the	y, June 07, 2017 12:12 AM @boeing.com> X LEVEL B DIFFERNCES SOLUTION The presentations and I accept and agree the training requirement for Boeing Max as CBT is it is ion training from B737800 to Boeing Max. ons you send me was very helpfull. / CAT III and ETOP B 737 training materials can i have it for free or any sugestion to have those
From: Sent: Wednesda To: [Cc: Subject: Re: MA Dear I have received the source for transite the source for transite training material for the source f	y, June 07, 2017 12:12 AM @boeing.com> X LEVEL B DIFFERNCES SOLUTION The presentations and I accept and agree the training requirement for Boeing Max as CBT is it is ion training from B737800 to Boeing Max. ons you send me was very helpfull. / CAT III and ETOP B 737 training materials can i have it for free or any sugestion to have those
From: Sent: Wednesda To: (Co: Subject: Re: MA Dear I have received the source for transite Those presentations are received the source for transite training material for the source for training material for the source for the source for transite training material for the source for th	y, June 07, 2017 12:12 AM @boeing.com> X LEVEL B DIFFERNCES SOLUTION The presentations and I accept and agree the training requirement for Boeing Max as CBT is contraining from B737800 to Boeing Max. Sons you send me was very helpfull. / CAT III and ETOP B 737 training materials can i have it for free or any sugestion to have those you if i have further question, we will keep in touch.
From: Sent: Wednesda To: (Cc: Subject: Re: MA Dear I have received the source for transite the source for transite the source for transite training material for the source for the	y, June 07, 2017 12:12 AM @boeing.com> X LEVEL B DIFFERNCES SOLUTION The presentations and I accept and agree the training requirement for Boeing Max as CBT is contraining from B737800 to Boeing Max. Sons you send me was very helpfull. / CAT III and ETOP B 737 training materials can i have it for free or any sugestion to have those you if i have further question, we will keep in touch.

On Jun 7, 2017, at 11:23 AM.	@boeing.com> w	rote:
Please see email I sent to yet ichooses to require a MAX simulator be creating a difficult and unnecessary training your region for other MAX customers. I have please review with your team and let me known presentations showing just how similar the Max	ng burden for your airline, as well as e suggested some alternatives to re w if you would like to discuss further	egulators are requiring that it will potentially establish a precedent in quiring a MAX simulator below.
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	
	XX.73.11X.1	
L		
Thank you for the call. I have attached the te Please keep in mind that the supplementary a Handout differences only, as they are read-ar briefings to your team if you would like, or yo hesitate to ask.	and non-normal procedure difference nd-do procedural differences. I wou	es are considered Level A, or ild be happy to present these
Rather than require a simulator event, you ma requiring a minimum hours requirement on the requiring the first flight on the MAX be with an operator inputs, that you will find any of these be quite burdensome to your operation.	e 737NG before doing the MAX diff nother pilot who has already flown it.	erences training, or perhaps I believe, based on other
I look forward to working with your team as y	ou prepare to bring the 737 MAX in	to your operation.
Regards,		
r		

737 Chief Technical Pilot
Q 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
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.
Thank you
TOT Chief Technology Dist
737 Chief Technical Pilot



Sent: Monday, June 05, 2017 8:42 PM	Wateron Berner
To: @boeing.com>:	@boeing.com>
Co:	
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 Boe	ing 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 ye	ou
I will give you a call after I discuss with my team on syllaby.	
I will give you a call and I discuss will my team on sylaby.	
Best regards	
Deputy Training B 737	
12 10 10 10 10 10 10 10 10 10 10 10 10 10	
From: @boeing.com>	
Sent: Tuesday, June 6, 2017 10:29:27 AM	
To: Boeing Employee	
Subject: RE: MAX LEVEL B DIFFERNCES SOLUTION	
I would like to discuss what if any requirements beyond the Level B CBT	
airline has determined any additional training is required. Please call me	today on my cell phone, at your earliest
convenience. Do not worry about what time it is here for me.	
My cell is	

Thank you,	
1	
737 Chief Technical Pilot	
(BOEING	
From: Sent: Monday, June 05, 2017 8:26 PM	35
Jenk, Monday, Julie 05, 2017 0.20 FW	39

To:	@boeing.com>;	@boeing.com>
Subject: Re: MAX LEVEL	B DIFFERNCES SOLUTION	
Dear		
Dear		
Updating my cell no is		
Thanks		
Deputy Training B 737		
Deputy Hairing B 737		
te dita of trabalco-basic estimatiche. - P	H-0000000-1	
From:	@boeing.com>	
Sent: Tuesday, June 6, 20	17 10:21:06 AM	
To: Boeing Employee Cc:	1	
	DIFFERNCES SOLUTION	
[],		
I just spoke with	at his mobile # helow. Currently in FFS.	and busy rest of day. He welcomes you
	vat number below (and attached). The number	
	7	
This would be 11:00 AM J	akarta time.	
Best Regards,	eld Consisse I Designal Color Manager I ADAC	
	pht Services Regional Sales Manager APAC papore UTC/GMT + 8 hours	
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system. Emails cannot be guaranteed	all or any attachments. If received in error, notify the sender immedia to be secure or error free as the message and any attachments coul	id be intercepted, corrupted, lost, delayed, incomplete or
amended.	do not accept liability for damage caused by this email or a	ny attachments and may monitor email traffic.
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	to be secure or error free as the message and any attachments could be not accept liability for damage gaused by this email or a	id be intercepted, corrupted, lost, delayed, incomplete or
personal transfer and transfer		
on the information contained in this em	orfidential and may also be privileged. If you are not the addressee, dr ail or any attachments. If received in error, notify the sender immedia	lely and delete this email and any attachments from your
amended.	to be secure or error free as the message and any attachments could be not accept liability for damage caused by this email or a	
<pre><pre>Control Difference </pre></pre>	10.4	
<ng difference<="" max="" td="" to=""><td>s.pai></td><td></td></ng>	s.pai>	

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From:	@boeing.com>
To:	Boeing Employees
Sent:	12/10/2014 2:39:47 PM
Subject:	Missed conversation with Reeing Employee
	:13 PM]:
how'd IPT go?	[2:14 PM]:
as	. Sounds like TD is planning on using NG T1 plus MAX differences for the manufacturer's minimum course, mentioned to us the other day :15 PM]:
	be a pretty ugly set of CBTs, but if it meets minimum, that's fine. No one is going to buy that training (I
	[2:18 PM]:
#500 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	nat the AEG will be okay with going about the transition course this way
Thope	
	about that got blurting out an FTD is needed
oops, guy not go	ot
	[2:20 PM]:
that was pretty n	nuch a turd in the punchbowl
	:20 PM]:
big stinky one	
and I know[going to latch onto that like a starving dog to a milk bone
Assessment	an update on the T-1 DOORS thing, I sent an email to theasked to take care of it.
i'm still not gras	ping what the DOORS thing is [2:23 PM]:
용하다 하나 이번 경기 바람이 얼마나다 내가 있다.	T&E schedule to do the T2 test. :24 PM]:
they already kno	ow about T2/T3 for the -8 and T1s for the -9 and -7?????
Will send they are making	an email reminding him that he promised a Task Analysis briefing to the AEG in January. I hope progress on that,
	d know about it, but my understanding is that we still need to apply to have it on their schedule. Details to
	:25 PM]:
after we get thru determination	this RCAS stuff, we're going to have to immediately start up on RSAT, to try and get the training level
	[2:25 PM]:
agree	
[2:	:26 PM]:
	I from an NP PMP, who's working the pitch tofor both. I told her she needs to wait until late Jan early is training level, and it will be months before we get it for RSAT
	:37 PM]:
oops, I meant No	G PMP (Program Mgr)

From:	Boeing Employee
To: CC:	Boeing Employees
Sent: Subject:	2/26/2013 1:29:13 PM RE: Synthetic Airspeed
	e need the trade study to authorize work for us to figure out what the recommended presentation oal of course would be to keep differences training to a minimum, but without a format we can
airspeed when fl retrofit.	ection switches would simplify the implementation logic by relying on the crew to select synthetic agged, but that drives changes to the non-memory items in the NNC and would be more difficult to be asking for your input as we go do that work.
	Employees
	implications would be, if only in NNC and not affecting memory items, it could be ok.
Kind regards,	
737/737 MAX C Chief Pilot Regu The Boeing Con	

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

Subject: RE: Synthetic Air	speed			
This is the latest draft, he checklist.	owever, we are far from validating	ng this as the final vers	sion of the Airspeed Unre	eliable
Critical Action, Memory	econ today, an introduction of s tem Non-Normal Checklist, If s e Program directive to maintain	ynthetic airspeed is st	andard as opposed to a	
I've included	who is the lead Tech Pilot for	the MAX.		
	ms SAM call today, to listen to the rought up. First I had heard of it			and
Thank you,				
737 Technical Pilot				
Q BOEING	BOEING EDGE Fight Services			
From: Boeing Employee Sent: Tuesday, February To: Boeing Employee Subject: Synthetic Airspe	Σ6, 2013 10:36 AM			
Do you have a copy of v I've seen that one yet.	hat the 737's Airspeed Unreliab	le checklist will be as	a result of the SRP? I do	on't think
	nplement synthetic airspeed on to to be different from the 787.	he 737, particularly si	nce it doesn't have	so the
Flight Deck Crew Operat	ons			

From:		n@boeing.com>	
To:	Boeing Employees		
Sent:	7/7/2016 4:52:38 PM		
Subject:	Conversation with		
	10 StroSec		
	8:59 AM:		
hey			
3:5	9 AM:		
yeah			
	8:59 AM:		
has see	n the standard NG to MAX pitch? They are coming	ig here 7/25-26 for a Ecab demo	
8:5	9 AM:	A CONTRACTOR OF THE CONTRACTOR	
I don't remember	genomati.		
who from ?			
Branch I	9:00 AM:		
N-0	AM:		
don't know the n			
don't know the h			
Alle Mala and State	9:01 AM:	and the second s	
	하스테이 있는 사람이 되었습니다. 이 사람이 사용하는 사람이 되었다면 하고 있다. 사람이 하는 그는 그들이 아버지가 있다.	ting together the agenda, I will have him put in time	tor
the pitch before o	- 스틸리트		
9:0	2 AM:		
sure			
	þ:39 AM:		
Remember to pro	d about and working Au	ug 13 and 14. We want to get this schedule out asap	ĥ
Thanks	territoria hammania territoria		
9:4	AM:		
and ILS only, anyt	hing else?		
I feel like we had a	another IOU from them to consider		
	9:41 AM:		
an IOU for the de	icing stuff that we won't have in time for the T3		
	1 AM:		
In a second second second	ur notes from our last mtg plz?		
right	ar rotes from our last ring pier		
	It have the 120 min limit which is have		
TOOKS like we wor	t have the 120 min limit, which is huge • 42 AM:		
ab at the force of	, 1 00 (100 00 00 00 00 00 00 00 00 00 00 00 00		
that's it from my			
manuscript electronic or	2 AM:		
	y 60 min instead of of 30 min		
I'll downplay that	this run up is mandatory, so they don't think of it	as a memorized limitation	
	_j9:44 AM:		
new topic, COPA	meeting 7/21. For the tailstrike discussion, we war	nt you. rom [Anyone els	e?
):4·	6 AM:		
maybe ask	if he can attend to discuss how our IPs trai	in rotation and landing?	
	9:46 AM:		
okay			
will ask him to att	rend		
A ALEXANDER DE LA CARLES DELLA CARLES DE LA CARLES DE LA CARLES DE LA CARLES DE LA CARLES DELLA CARLES DE LA	7 AM:		
cool			
	3:16 PM:	41	
William To the Control of the Contro	AND THE RESERVE OF THE PARTY OF	41	

hey	
[3:17 PM:	
hey	
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?	
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 the	ey're ir
the process of re-working the system a bit after the engineering flight a few weeks ago	
do you recall if there is proof the 787 doing a T2 and T3 on the server by chance? Now I have a flight test guy questi	oning
us about T1 vs T2/T3, etc. Trying to blow up our whole plan	
3:23 PM:	F 24 25 -
Good to go to III think the way to go is to challenge the process of her alone making the decision, and on a cert fi	ight
I can look for the 787 tests	
I'm not too worried about her. She knows damn well that if her and her alone makes this call that this stupid NNC re-	quires
sim training that she'll get crucified. She just wants to say she "evaluated" it. Just like she rolled over on RCAS	
3:25 PM:	
As long as she comes up with the right answer. What's the flight test guy's beef?	
3:25 PM:	
I'll fwd	
I think I'll just call him, I don't feel like wasting that time and energy on an email if I don't have to. I just want to be all	ole to
tell him T2/T3 was done, not T1	110.00
3:26 PM:	
okay. Talked/Webex'd with Nice guy. He has a family reunion in lowa Sat the 6th, would like the early	v sim
on the 5th so he can get out of town. What if we pair him with for the sims?	
B:28 PM:	
ugh. I'm ok if is	
I didn't see the STAR course email til after Heft Can you send her an email?	
3:30 PM:	
Sure.	
B:34 PM:	
If we have the guy in the sim with a TCCA guy, then we need watching the TCCA guy and watching	the
guy.	
I got that wrong	
The FASA pairing would need and you watching. The TCCA/FAA would require watching	ig
3:36 PM:	
on 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 the state of th	2

3:41	PM:	
sure, let's do that		
as long as it doesn	n't create a big break in training for	anvonee
	3:43 PM:	
Lemme do this, I'll		im. He was bidding his schedule today. If he is okay with that, then I
	Service of the servic	
	nd AAL guy if one of them will switc	n groups
International Control of the Control	PM:	
ok cool		
I'll cover the rest o	of our mtg today with you tomorro	w in person. Tots of stuff to go over
	3:47 PM:	
talking to him nov	N	
	4:04 PM:	
he can catch a 5:49	10.550m 1370 N. MARK W.	ne 5th. I told him we would drive him from sim to terminal. No change
to the schedule.	2 mg/rc to Atlanta area his sim of th	ie sait. I told fill we would drive him from sim to terminal, no charge
	Yadarii	
	PM:	
ok cool		
	4:06 PM:	
It sounds like he is	in't getting (or asking for) support f	o drop trips. I told him we would be glad to intercede for him if he
asks us. He asked	about hotel, I told him he should a	to put him up, probably at the usual layover hotel.
	covering per diem	
	PM:	
hamesterness.	7.11.	
oh jeez		
damn cheap 1		
	4:08 PM:	
He sounds a little t	timid to ask. We may want to put a	bug in there ear to take care of him
4:12	PM:	
do you know if CA	AS funds the T-test WSRD flights?	
	4:13 PM:	
dunno is there a li	ine on the WSRD request for CAS to	sign off?
	PM:	7391011
	FAL	
yes	400 D0 200	
who's the CAS guy		
The contract is not become a contract of the	4:15 PM:	
is ti	he top man, although he would pro	bably delegate any question you send him. Are we looking for
additional \$\$, or v	verifying what we have?	
4:16	PM:	
we need 4 hours for	or each T2 and T3 right?	*
	Flt Test Integration asking who pa	us for it
nave trib goy from	4:17 PM:	73 TOTAL
The second second		
#DUDY SUBSTITUTE OF THE PROPERTY OF THE PROPER	ling the email trail on this right now	
1	PM:	
he's the WSRD cos	ordinator	
	4:19 PM:	
drawing a compar	rison between the MAX and 787-9 c	loesn't work.
The state of the s	PM:	
is that the T1 he w	as referring to?	
I didn't look clase		
Tulunt 100k cluse		
L	4:20 PM:	
	ne 787 9 only needed a T 1, so why	does the MAX need a T2 and T3?
	PM:	
I did find the T-2 a	and T-3 stuff in the server	
ah, I missed that	100	
Selection of the select	PM:	43

personne menerale menerale de la companya della com

OMG, this pr	ocess is so messed up
I've got 3 em	ails about the t-tests from 3 different groups today
	4:24 PM:
We Boeing e training	lected to forego the T-1 because we thought it was a little too risky to send guys into the MAX with no
	"]4:24 PM:
no one know	rs who is doing what!
	4:29 PM:
The AC is cle motions	ar that no training can be given for a T1. We thought that was a stretch, and a waste of time to go through the
[4:30 PM:
yeah I'll talk	to him tomorrow and smooth it out
[4:32 PM:
was gu	ing 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 re	sponse) it was decided to not go through the pain of busting a T-1
	4:37 PM:
what did	say about the other 2 FAA guys working on the weekend?
T	4:41 PM:
she said she'	get back to us tomorrow, no word back yet
	swer on ILS vs RNAV tomorrow too, they're torn amongst themselves
1	4:47 PM:
see you tom	orrow, I'm probably bugging out about 2:00
	4:49 PM:
ok later	ial State (State

From:	20 boeing.com>
To:	Boeing Employees
Sent:	6/16/2016 8:29:41 AM
Subject:	Conversation with
7:4 this has me a litt	9 AM:
THIS THE UNIT	7:50 AM:
Lauess the prop	if is in the pudding. Sounds to me like #2 is better because it doesn't mess with roll feel
and make the department of the latter of the	1 AM:
	1 AM:
agree	
Laccume there	s no sig impact to landing distance if it is only a small deployment rate change
mention of the second	
you would think	2 AM:
	about the lack of de-rotation, given how much tailstrike is a concern to our customers
	4 AM:
	te the T-tests are going to have the current schedule?
Sources to the an	7:56 AM:
looking at the so	chedule, won't make the T test
	7 AM:
L	crossed no one notices it, and if they do, worst case we say there will be a fix for it coming
neep our raigers	7:58 AM:
maybe chat w/th	ne flight test bubbas and see how noticeable this really is
	8 AM:
and the second second second second second	In our meetings it's definitely noticeable, but and I didn't feel it
	est pilots it's noticeable?
	7:59 AM:
it may be transp	arent to the average bear
8:0	1 AM:
that's what I'm h	oping
8:1	2 AM:
there's a handy	new feature, flashing MC!
	8:13 AM:
no extra charge.	Just sent you comments on the MAX CBT topic
8:1	6 AM:
saw it, Lagree.	so should we ask to give us a name at campus to start working this with us?
***************************************	8:17 AM:
yep, maybe also	find a Boeing body that works with locally to orchestrate this with him and the regulators

From:	Boeing Employee
To:	Boeing Employees
Sent:	3/17/2016 1:49:33 PM
Subject:	Conversation with
]p:	35 PM):
haws it goin the	re? [1:37 PM]:
the E learning	spiel before lunch. No big objections. One question to send toabout how well LMS will play with
	imment about the track up vs hdg up on the PFD compass, because we're trying to get that changed due
to an issue that o	came up with IRS alignment, and then I told them it was a threat to Level B because of the difference in VI we my magic "level B" wand!!!!
cut training. Tros	11:38 PMI:
	If we would have a STAR course. Said no, not for now.
	38 PM]: ng to have to look at building the STAR
Trims we re qui	[1:38 PM]:
so heading up wi	ill be standard for the rose on the MAX?
at the same at the	38 PM]:
that's what	is going to push for
with track up, if y	ou have to go into ATT mode, you can never get a hdg displayed on the PFD compass rose if it's track up
	[1:39 PM]:
	(R, but TD will have to gin up the footprint. I'll send that comment to TD. Was asked about reverse
	g a breakthinks that is a good idea. 40 PM):
I think the bigger	r issue is for engine out V1 cut maneuvering, and the ability to fly the correct ground track in a big
crosswind	
cool	¬
Total Trans	[1:40 PM]:
and the second second	ally say they want reverse differences help to get the funding from CAS 40 PM]:
Townson .	nd NG in lis buying MAX 200s. I'll ask them about their fleet plan tomorrow at the cab demo
we're giving then	[전기 보고 있는 경기 등 기계 등
huge win for us t	o not have to deal with CL/MAX til AFTER Level B determination!
	[1:42 PM]:
	sked me about CL to MAX, or what the confidence level was on level B.
	42 PM]:
sweet	14 1213 2013
you can't lie if yo	ou don't have to talk!
T amot	1:42 PM):
Accessor to the second of	he big picture spiel at the beginning, then left g with the differences modules?
	43 PM]:
I'm looking at yo	
	to send 2 of them back in about an hour
	THE PART.

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

[1:45 PM]:
Tknow
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 PMI):
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 PMI]: u
agree

From:	@boeing.com>
To:	Boeing Employees
Sent:	1/5/2016 9:08:26 AM
Subject:	Conversation with
]7:	:47 AM]:
yo	
	[7:48 AM]:
yo	AD ABEL
	:48 AM]: : are we with the regulators?
what days/diffes	7:48 AMI:
Tues/Wed Jan 19	9/20. Meetings in the a.m., ecab in the afternoon
	:49 AM]:
any evening com	nmitments with them?
	to hang out with (Wed night
	d to give them a cab session too
I need to figure of	out when they want the cab
no evening com-	mitments, was thinking of going out for a beer with them on Tues after the cab. Will be a small group.
тсс	N. C. A. C.
	ebrief after the Wed pm cab session.
	hat we come up with for cab show and tell, we may not need a whole 4 hours on Wed
	:52 AM]:
ok cool	
gonna be an inte	eresting juggling act for me that week
	7:53 AMJ:
	b on Tuesday after we are in there with the regulators, or same time on Wed. :55 AMJ:
year, let 5 see ii v	we can come up with a 2 hour cab plan for Wed, so I can use the last 2 for
It will be interest	ting for the cab sessions in that pren't 737 qualified. That leaves as the
	he understanding of the differences between the NG and MAX. ihasn't gone to 737 school yet.
market and the work of the second contract.	:58 AM]:
dogs watching T	
	[7:59 AM]:
Funny, I was goir	ng to say the same. I think we make our money at this meeting by getting them to buy into the training
and evaluation p	plans. Unfortunate that won't be here, he can corral and guide her. can to some extent.
[8:	:00 AM]:
well, I think with	all the inexperience present, we should be able to gang up on them and steer it the direction we want. We
just need to figu	re out what that direction is
	[8:00 AM]:
agree	
Lieuway and a service and the service of the servic	:33 AM]:
whatcha think of	f the ORW AFM verbiage I came up with? [8:55 AM]:
working on it, ke	eep getting tapped for other stuff
[8:	:55 AM]:
I hear ya	

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

	Date of the second seco
	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
ľ	[[8:58 AM]:
	I talked to about sliding the diffs course left, told him we need an answer nit 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 payt week

From:	Boeing Employee
To:	Boeing Employees
Sent:	8/25/2015 1:42:49 PM
Subject:	Conversation with Boeing Employee
	[11:42 AM]:
hey	
will send you	a link to the pptx that we updated in this meeting.
[11	1:50 AM]:
ok	
	[11:51 AM]:
basically explaine	ed 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	TIA date
[11	1:55 AM):
is proba	ably going to push for removing ARSA as cert requirement
	11:59 AMI:
cert requirement	for the MAX?
(12	2:00 PM]:
yes	
they're going over	er to look at an IAN issue right now for U12, perhaps give it a thumbs down, which will delay cert of U12,
and take this opp	portunity to push for removing ARSA as MAX cert requirement
	[12:02 PM]:
do we/she have a	a strong enough case to convince SACO ARSA isn't required?
(12	2:02 PMI):
thinks s	so, and so do I
our AP only has 1	1/3 roll authority, so it can't get in the conditions the latest amndt is trying to protect for
	[12:03 PM]:
that makes thing	is easier for the MAX. Lots of hours and \$\$ spent on that thing.
Įp:	2:10 PMJ:
i know, but mass	ive risk reduction
	25 PM]:
flies the N	IG more than the tech pilots do. How wrong is that?
	(1:26 PM):
on a number of l	evels
[1:	29 PM]:
I'm hoping we ca	in kill RCAS
waiting to hear b	ack from
That would be a	hoot if after AEG approves the CBT, we come back to them and say "nevermind "
[1:	30 PM]:
lol	
I know	

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	ril 0830
[7:	57 AM]:
copy	
what are we goin	ng over on this?
	[7:58 AM]:
building the pito	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
17:	59 AM]:
ok cool, how did	that go? any big surprises?
	[7:59 AM]:
I suck at flying ja	mmed elevator without DLC
17:	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	tweak the elevator effectiveness a little. Yeah we talked about using a reasonable og to make it doable
	want them to succeed without DLC
it is easy to start	chasing pitch and power and get in a PIO
[8:	03 AM]:
ultimately you ha	ave to have it trimmed up pretty well when you start your appr descent, and the thrust coupling is way
	ian the DLC, at least that's what I found
you of course ha	ve to pretty much disregard your airspeed:)
	[8:05 AM]:
agree. The profil	es we were flying gave you the plane 10 mile final, level on speed at F15. Pretty stable start.
yesterday was ta	lking about starting at altitude. That is going to be a bag of worms and a waste of time.
[8:	05 AMJ:
that is irrelevant,	since the DLC doesn't work until the flaps are extended
	[8:06 AM]:
agree, didn't war	nt to get into it with her, told her we were still building the profile
[8:	06 AM]:
we don't have tir	ne to show them multiple scenarios from alittude thru landing, that's stupid
	[8:07 AM]:
yep, put to	ogether a sequence that we will go over. We will also pull some of the slides from the pitch [] an
And the second second	Viay to the AEG. Were you there for that pitch?
[8:	08 AM]:
yes	
it was like dogs v	vatching 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
	[8:10 AM]:
sent me th	at pptx, yeah a little too technical. I think that didn't sit well with as she wants to experience it.
American married	out that yesterday, in that we are moving from the chalk talk to the practical demos to win their
confidence	

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

From:	Boeing Employee
To:	Boeing Employees
Sent:	4/12/2016 9:04:14 PM
Subject:	RE: MAX Recurring meeting 4-12-16
Attachments:	NG to MAX Differences.docx
	o MAX differences document to outline all of the large and small changes on the MAX (see last elow). The concern is that sum of all of these small changes could potentially jeopardize level B
Please take a lo send to the cert	ok and add/delete as you see fit. Once it has made the rounds within our group then we need to pilots.
Thanks,	
Flight Technical & S	
~ De	
	NAME

Fo:	April 12, 2016 3:42 PM @boeing.com>;
	@boeing.com>; @boeing.com)
	@boeing.com>
Subject: MAX F	Recurring meeting 4-12-16
FYI.	
- 11,	
From the MAX i	
	recurring meeting;
7,000	NTI-ICE annunciator panel light illuminating in flight without a known cause.
o Lo	
	ANTI-ICE annunciator panel light illuminating in flight without a known cause.
o C	ANTI-ICE annunciator panel light illuminating in flight without a known cause, boking to add an additional camera to capture overhead panel lights to track reason
o Co o Jo Amber E	ANTI-ICE annunciator panel light illuminating in flight without a known cause, boking to add an additional camera to capture overhead panel lights to track reason ould take time to get camera pined meeting late so no more information. ENG ANTI-ICE light latching on battery starts
o Co o Jo • Amber E o Al	ANTI-ICE annunciator panel light illuminating in flight without a known cause, boking to add an additional camera to capture overhead panel lights to track reason ould take time to get camera bined meeting late so no more information. ENG ANTI-ICE light latching on battery starts lso latches on standby power if in flight
O Co O Jo Amber E O Al	ANTI-ICE annunciator panel light illuminating in flight without a known cause, boking to add an additional camera to capture overhead panel lights to track reason ould take time to get camera bined meeting late so no more information. ENG ANTI-ICE light latching on battery starts so latches on standby power if in flight ould like to increase the time the amber L/R VALVE WAI light can remain illuminated before setting.
Amber E CS wo the MC I	ANTI-ICE annunciator panel light illuminating in flight without a known cause, boking to add an additional camera to capture overhead panel lights to track reason ould take time to get camera bined meeting late so no more information. ENG ANTI-ICE light latching on battery starts lso latches on standby power if in flight ould like to increase the time the amber L/R VALVE WAI light can remain illuminated before setting
Amber E Al ECS wo the MC I	ANTI-ICE annunciator panel light illuminating in flight without a known cause, boking to add an additional camera to capture overhead panel lights to track reason ould take time to get camera bined meeting late so no more information. ENG ANTI-ICE light latching on battery starts also latches on standby power if in flight build like to increase the time the amber L/R VALVE WAI light can remain illuminated before setting light to reduce a lot of the nuisance alerts that are being seen in flight tests.
Amber 6 ECS wo the MC 1 Amber 6	ANTI-ICE annunciator panel light illuminating in flight without a known cause, boking to add an additional camera to capture overhead panel lights to track reason ould take time to get camera bined meeting late so no more information. ENG ANTI-ICE light latching on battery starts lso latches on standby power if in flight build like to increase the time the amber L/R VALVE WAI light can remain illuminated before setting light his is to reduce a lot of the nuisance alerts that are being seen in flight tests COWL ANTI-ICE light illumination when engine thrust is suddenly increased.
Amber ECS wo the MC I	ANTI-ICE annunciator panel light illuminating in flight without a known cause, boking to add an additional camera to capture overhead panel lights to track reason ould take time to get camera pined meeting late so no more information. ENG ANTI-ICE light latching on battery starts also latches on standby power if in flight build like to increase the time the amber L/R VALVE WAI light can remain illuminated before setting light this is to reduce a lot of the nuisance alerts that are being seen in flight tests COWL ANTI-ICE light illumination when engine thrust is suddenly increased.
Amber ECS wo the MC I Amber C	ANTI-ICE annunciator panel light illuminating in flight without a known cause, boking to add an additional camera to capture overhead panel lights to track reason ould take time to get camera bined meeting late so no more information. ENG ANTI-ICE light latching on battery starts as a latches on standby power if in flight build like to increase the time the amber L/R VALVE WAI light can remain illuminated before setting light his is to reduce a lot of the nuisance alerts that are being seen in flight tests COWL ANTI-ICE light illumination when engine thrust is suddenly increased. EXAMPLE REPORT CONCERN that all of the small changes are really starting to add up.
Amber ECS wo the MC I Amber Co	ANTI-ICE annunciator panel light illuminating in flight without a known cause, boking to add an additional camera to capture overhead panel lights to track reason ould take time to get camera pined meeting late so no more information. ENG ANTI-ICE light latching on battery starts as latches on standby power if in flight build like to increase the time the amber L/R VALVE WAI light can remain illuminated before setting light his is to reduce a lot of the nuisance alerts that are being seen in flight tests COWL ANTI-ICE light illumination when engine thrust is suddenly increased, example, descent followed by level off when EAI is on expressed a BIG CONCERN that all of the small changes are really starting to add up, ould be a threat to level B
Amber ECS wo the MC I Amber Co	ANTI-ICE annunciator panel light illuminating in flight without a known cause, coking to add an additional camera to capture overhead panel lights to track reason could take time to get camera clined meeting late so no more information. ENG ANTI-ICE light latching on battery starts as latches on standby power if in flight could like to increase the time the amber L/R VALVE WAI light can remain illuminated before setting light this is to reduce a lot of the nuisance alerts that are being seen in flight tests COWL ANTI-ICE light illumination when engine thrust is suddenly increased. EXAMPLE ANTI-ICE light illumination when EAI is on a perfect the example, descent followed by level off when EAI is on a perfect to level B lot of small changes in systems that where not supposed to have any changes from NG.
Amber ECS wo the MC I Amber Co	ANTI-ICE annunciator panel light illuminating in flight without a known cause, boking to add an additional camera to capture overhead panel lights to track reason ould take time to get camera pined meeting late so no more information. ENG ANTI-ICE light latching on battery starts as latches on standby power if in flight build like to increase the time the amber L/R VALVE WAI light can remain illuminated before setting light his is to reduce a lot of the nuisance alerts that are being seen in flight tests COWL ANTI-ICE light illumination when engine thrust is suddenly increased, example, descent followed by level off when EAI is on expressed a BIG CONCERN that all of the small changes are really starting to add up, ould be a threat to level B
Amber ECS wo the MC I Amber Co	ANTI-ICE annunciator panel light illuminating in flight without a known cause, boking to add an additional camera to capture overhead panel lights to track reason ould take time to get camera bined meeting late so no more information. ENG ANTI-ICE light latching on battery starts as latches on standby power if in flight build like to increase the time the amber L/R VALVE WAI light can remain illuminated before setting light bis is to reduce a lot of the nuisance alerts that are being seen in flight tests COWL ANTI-ICE light illumination when engine thrust is suddenly increased. EXAMPLE CONCERN that all of the small changes are really starting to add up. ould be a threat to level B. Lot 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.
Amber ECS wo the MC I Amber Co	ANTI-ICE annunciator panel light illuminating in flight without a known cause, boking to add an additional camera to capture overhead panel lights to track reason could take time to get camera could take time to get camera could meeting late so no more information. ENG ANTI-ICE light latching on battery starts is latches on standby power if in flight could like to increase the time the amber L/R VALVE WAI light can remain illuminated before setting light in the could like to increase the time the amber L/R VALVE was light this is to reduce a lot of the nuisance alerts that are being seen in flight tests COWL ANTI-ICE light illumination when engine thrust is suddenly increased, example, descent followed by level off when EAI is on a lexpressed a BIG CONCERN that all of the small changes are really starting to add up. The loud be a threat to level B lot 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 § Longer transition times in EAI/WAI valves § Longer engine start times
Amber ECS wo the MC I Amber Co	ANTI-ICE annunciator panel light illuminating in flight without a known cause, boking to add an additional camera to capture overhead panel lights to track reason ould take time to get camera bined meeting late so no more information. ENG ANTI-ICE light latching on battery starts iso latches on standby power if in flight build like to increase the time the amber L/R VALVE WAI light can remain illuminated before setting the bis is to reduce a lot of the nuisance alerts that are being seen in flight tests COWL ANTI-ICE light illumination when engine thrust is suddenly increased. Example, descent followed by level off when EAI is on expressed a BIG CONCERN that all of the small changes are really starting to add up. Ould be a threat to level B lot 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 § Longer transition times in EAI/WAI valves

Thanks,	È
Flight Te	chnical & Safety
	- Desk
	- Mobile

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From:	@boeing.com>
To:	Boeing Employees
Sent:	9/20/2016 4:45:27 PM
Subject:	Conversation with
	banana banan
3:24 did I miss the 2 i	PM: issues we want to talk about?
]3:24 PM:
nope	
This is the dueal	weather radar config not working for 20 seconds each time you switch between the systems
3:26	PM:
oh sweet jesus	
	H 3:26 PM:
and gues who or	ne of the 3 affected customers would be?????
4:12	PM:
this is a joke	
this airplane is ri	
	Ø:12 PM:
getting better an	
what havent they	told us yet???
Whats next?	
4:13	PM:
who knows	
VALO	4:13 PM:
	sues with every update we do
4:14	
fix one thing, bre	y'll never get it right
nx one ming, are	4:21 PM;
OMGUII	
What the hell	
4:42	PM:
ugh	
I need a cold one	e after that
Gustavsson, Patrik I	
me too	
This is just ridico	ulus
4:42	
too bad I have to	
no one wants to	
Have fun!	
4:43	PM:
you too. later!	
	14:42 DAR

later

From:	Boeing Employee
To:	Boeing Employees
Sent:	8/17/2017 7:16:15 PM
Subject:	RE: QRH Procedure for MCP LOCKUP
You guys rock! Av	vesome. Great stuff.
From: Boeing Em	ployee
Sent: Thursday, A	ugust 17, 2017 2:16 PM
To:	@boeing.com>; {
	@boeing.com>;)@boeing.com>;
****************	@boeing.com>
Subject: RE:	QRH Procedure for MCP LOCKUP
Sweet! You're jed	i mind tricks serve you well
6 10 60	
737 Chief Technical	Dilot
737 Oner recinica	
	1
O PREM	
BOEIN	
From: Boeing	Emloyee
Sent: Thursday, A	ugust 17, 2017 2:15 PM
To:	@boeing.com>; @boeing.com>;
	②boeing.com>; ②boeing.com>
Subject: RE:	QRH Procedure for MCP LOCKUP
Done. will	he has no objection to the checklist.
From:	
	ugust 17, 2017 12:23 PM
To:	@boeing.com>;
	@boeing.com>; @boeing.com>;
	@boeing.com>
Subject: Re:	QRH Procedure for MCP LOCKUP
I suggest a phone	call back to telling that while in general we don't support cycling CBs we realize this h
been an effective	
them.	customized
mineral distance	our opinion, he's asking for So let's give him enough ammo to pull the trigger.
ish t asking	opinion, he's asking tort
Sent via the Samoune	Galaxy S7 active, an AT&T 4G LTE smartphone

-- Original message -----

From:	@boeing.com>
Date: 87	17/17 1:48 PM (GMT-05:00)
o:	@boeing.com>,
	aboeing com>, hboeing com>,
	@boeing.com>
ubject.	
00040000	
	seems to be getting hung up on the conversion from making their own manuals to Boeing.
he MC	P LOCKUP NNC is only in the COC book, no other operators get this NNC.
don't s	ee that we need to justify whether or not it complies with our definition of troubleshooting.
	n their book by COC, not by NTO. We didn't approve the checklist, just published it.
looked	through my archives and don't see any discussion other than documentation in 2005 of inflight service
	have a FOTB, attached, that directs to cycle the FD switches. That same content is in the FCTM.
omme	
rom: E	Boeing Employee
Tenes	hursday, August 17, 2017 8:48 AM
0:	n@boeing.com>;
	@boeing.com>;
ubject	A STATE OF THE PARTY OF THE PAR
coss is	looking at this
rom:	@faa.gov [mailto] @faa.gov]
200000000000000000000000000000000000000	nursday, August 17, 2017 8:38 AM
0:	@boeing.com>: @boeing.com>
ubject	
Vould Io	ove to hear your thoughts before I respond. Many thanks.
-C11011010711	
EG Pil	ot, FSB & FOEB Chairman
	D, ERJ-190, BAE-146
	Aircraft Evaluation Group (AEG)
-	
Ve valu	e your feedback.
	andards Service Feedback Form
rom:	(FAA)
ent: W	ednesday, August 16, 2017 8:30 AM
0:	[[FAA]
c:	(FAA); (FAA); (FAA); (FAA)
ubject	QRH Procedure for MCP LOCKUP
	104
am the	APM for the B-737-800 fleet at the CMO. In coordination with the Seattle AEG for the past 11
	have been involved in the approval process on several versions of the QRH.
cars, I	nave been involved in the approval process on several versions of the
rior to	2014, had their own stylized QRH, which provided Non-Normal procedures on the right-hand/pag
0.71	The state of t

even prior to my arrival at this CMO in 2006. In 2008, at the POI's request, another APM,
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 confained 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
procedure has been approved for many years, and it is the opinion of and the B-737 APMs in
this office, that the procedure remains acceptable. Would you please provide us your concurrence on this matter
so that an 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:	6/6/2017 9:21:51 PM
Subject:	FW: MAX LEVEL B DIFFERNCES SOLUTION
Attachments:	NG to MAX Differences.pdf; Procedural Differences.pdf
be creating a diffic your region for oth Please review with	require a MAX simulator for its pilots beyond what all other regulators are requiring that it will ult and unnecessary training burden for your airline, as well as potentially establish a precedent in er MAX customers. I have suggested some alternatives to requiring a MAX simulator below. your team and let me know if you would like to discuss further. I also attached a few ving just how similar the MAX is to the NG.
To: Cc:	
Please keep in min Handout difference briefings to your te hesitate to ask. Rather than require requiring a minimum requiring the first fli operator inputs, that quite burdensome to	call. I have attached the technical and operational differences presentations here for your team, and that the supplementary and non-normal procedure differences are considered Level A, or as only, as they are read-and-do procedural differences. I would be happy to present these arm if you would like, or you can review them and if you have any questions please do not a simulator event, you may want to consider what other airlines have thought about, such as a hours requirement on the 737NG before doing the MAX differences training, or perhaps ight on the MAX be with another pilot who has already flown it. I believe, based on other at you will find any of these solutions to be acceptable. A simulator training requirement would be to your operation.
Regards, 737 Chief Technical	
From:	
	e 05, 2017 9:33 PM
And and an advantage of the second	
To:[@boeing.com>: @boeing.com>
Cc:	400 ACC 1 43 D F F F F F F F F F F F F F F F F F F

Subject: RE: MAX LEVEL B DIFFERNCES SOLUTION Dear	
Thank you for the explenation.	
I will discuss further with my team.	
Regards	
Deputy Training B 737	
From: @boeing.com>	
Sent: Tuesday, June 6, 2017 11:01:40 AM	ED :
To: Boeing Employee	
Subject: RE: MAX LEVEL B DIFFERNCES SOLUTION	
There is absolutely no reason to require your pilots to require a M engines are started, there is only one difference between NG and OFF position of the gear handle. Boeing does not understand who when the procedures are essentially the same. Perhaps we should discuss at your earliest opportunity. The FAA, Argentinia authorities have all accepted the CBT requirement as tild be happy to share the operational differences presentation with simulator is both impractical and unnecessary for your pilots. Please let me know when would be the best time to have a webex	MAX procedurally, and that is that there is no at is to be gained by a 3 hour simulator session, EASA, Transport Canada, China, Malaysia, and he only training needed to begin flying the MAX. It you, to help you understand that a MAX.
Thank you	
737 Chief Technical Pilot	
DEING	
From:	
Sent: Monday, June 05, 2017 8:42 PM	
To: @boeing.com>:	@boeing.com>
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 tra	nsition pilot with 1 sim familirization.
And also gave them 24 hours ground class room including CBT to with company guidance procedure.	nat Boeing gave us and flight technique compile
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: @boeing.com>
Sent: Tuesday, June 6, 2017 10:29:27 AM
To: Boeing Employee
Subject: RE: MAX LEVEL B DIFFERNCES SOLUTION
I would like to discuss what if any requirements beyond the Level B CBT the DGCA has required of you, or if you
airline has determined any additional training is required. Please call me today on my cell phone, at your earliest
convenience. Do not worry about what time it is here for me.
My cell is
Thank you.
737 Chief Technical Pilot
() BOEING
C BOZING
From:
Sent: Monday, June 05, 2017 8:26 PM
To: @boeing.com> @boeing.com>
Subject: Re: MAX LEVEL B DIFFERNCES SOLUTION
Dear
Updating my cell no is
Committee and the committee an
Thanks
Deputy Training B 737
From: <u>Spoeing.com</u> >
Sent: Tuesday, June 6, 2017 10:21:06 AM
To: Boeing Employee
Ce:
Subject: MAX LEVEL B DIFFERNCES SOLUTION
I just spoke with at his mobile # below. Currently in FFS and busy rest of day. He welcomes you
call him this time tomorrow at number below (and attached). The number shall be:
Mobile
This would be 11:00 AM time.
Best Regards,
Boeing Flight Services Regional Sales Manager APAC
Singapore UTC/GMT + 8 hours
I migage to the country to be and

This email and any attachments are confidential and may also be privileged. If you are not the addressee, do not disclose, copy, circulate or in any other way use or rely on the information contained in this email or any attachments. If received in error, notify the sender immediately and delete this email and any attachments from your system. Emails cappot be guaranteed to be secure or error free as the message and any attachments could be intercepted, corrupted, lost, delayed, incomplete or amended.

[do not accept liability for damage caused by this email or any attachments and may monitor email traffic.

This email and any attachments are confidential	and may also be privileged. If you are not the addresses, do not disclose, copy, circulate or in any other way use or rely
on the information contained in this email or any	attachments. If received in error, notify the sender immediately and delete this email and any attachments from your
system. Emails cannot be guaranteed to be sec	ure or error free as the message and any attachments could be intercepted, corrupted, lost, delayed, incomplete or
amended;	de not accept faibility for damage caused by this email or any attachments and may monitor email traffic.
Annana anna anna anna anna anna anna an	

From:	@boeing.com>
To:	Boeing Employees
Sent:	5/18/2018 10:38:43 AM
Subject:	tomorrow and upcoming weeks
	10:20 AM:
I can't believe ho	ow they are yanking your chain. Sorry man
	10:20 AM:
It's such a shit s	how
	10:20 AM:
totally	
I'll be shocked if	the FAA passes this turd
	10:20 AM:
They are doing a	all this last minute shit. I really do need to be there to make sure they haven't screwed things up too badly
A residence of the second seco	10:21 AM:
you know they d	lid .
	10:21 AM:
EASA expressed	d their concerns yesterday with the high DR count for SIN. Not going to be easy
	10:21 AM:
not surprisinng	
	10:22 AM:
	ng forward to the next few weeks
	ake today off, now I'm making travel changes, and emails. It'll be a lot of overtime this pay period!
Control of the Contro	10:23 AM:
	f your family, be there as much as you can
dump anything y	ou need to on me or the other guys. I leave for my trip next Fri for a week
	10:26 AM:
i will, hope you i	have a good trip around Europe!
	10:32 AM:
manks, should b	e fun. 2 new pins in the map for me

From:	@boeing.com>	
To:	Boeing Employees	
Sent:	5/18/2018 9:18:56 AM	
Subject:	MAX Level D	
	8:48 AM:	
Morning		
Your badge still	(worked this morning? :)	
	8:50 AM:	
lof		
morning sir	and the selection of th	
it worked in my	computerbut working from home today so who knows about the office entrance lol! 3:51 AM:	
lol		
Same thing her	ė.	
Contro thang the	₹ 8:51 AM:	
haha		
1100100	8:51 AM:	
Just got a requi		
	we spent way more time on this project than I should. And I was because they failed to	listen to me in the
first place!!!!!		
Arghbhhh		
	8:52 AM:	
1		
	y wnated an extra day with you just in case	
cause they love	and the second state of the second se	
Either way not	3:52 AM: 12	
Littlet way, not	much of a response from	
haha yeah i sav	man de la companya del companya de la companya del companya de la	
Traine years roas	8:52 AM:	
Didn't really say	ra grown and	
	8:52 AM:	
i think he's over	rall unimpressed	
	8:53 AM:	
He should be. It	t hasn't been an impressive performance	
	8:53 AM:	
pretty sure he h	has a sour taste in his mouth about this team	
	n we just about scraped through to a yes vote is because of YOUR work. And hugely b	ecause of
tireless work	F	
AND THE RESIDENCE OF THE PARTY	has created a culture of "good enough"	
	ncredibly low bar. ut it anymore. The cozy days with regulators are nehind us	
it just doesn't d	8:54 AM:	
yeah i'll look to	get some recognition for	
	ta change with that sim group	
	east at the head and start fresh	
THE RESIDENCE OF THE PROPERTY OF THE PERSON NAMED IN	8:55 AM:	
Yes, he deserve	es it more than anyone. BY A MILE	
	8:55 AM:	
	continues to piss me off	
always want re	cognition, never accountability	
	B:55 AM:	5200
It can't be how	we do things at Boeing anymore. Out with the old, in with the new I say	64

	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.
L.	9:00 AM:
	it is a culture issue for sure
	if there's one thing boeing does well is waste time
	loll thats the whole compnay in general not just T&PS
ř	9:02 AM:
L	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 Lacares less about this stuff
	his vision is all about more business development
	not the operational side
	operational side in his mind will take care of itself my opinion at least
	9:12 AM:
3.5	probably true. Hope sees things differently
	This must cost and arm and a leg though
3	9:15 AM:
	yeah we'll see
	nearly impossible to capture the true cost of all this
	imagine the enormous OT, travel, etc

From:	©boeing.com>
To:	Boeing Employees
Sent:	5/15/2018 1:36:27 PM
Subject:	Conversation with
	9:02 AM:
you on a call?	
9:02 AM	
Yes but it isn't in	oportant
Just TRB	
	9:02 AM:
Ok, need to char	t with you
9:03 AM	
	the Yaw Damper runaway malfunction in it's entirity?
	nt me to call your mobile?
	oesn't have to change the release notes that said the issue wasn't on offer but has issued a closure
	ir name saying that the issue that wasn't on offer was accepted in the load it wasn't meant to be checked
with	
9:58 AM:	No. Set and Committee to the Committee of the Committee o
In summary, no	go for the following from my opinion:
Number of ousta	anding DRs - quantity touching almost every aircraft system. Failure to meet targets, duration of open DR that rate of closure, ECDs for certain systems being pushed to late 2018 or 2019
Unknowns -	
Titler control loads underperforming at	ng - requires another sofware update to an already frozen load and the best it does it restore the tiller to the known tate
Air conditioning - r	now compromising sound QTGs - these tests form one of the two critical elements of the Level D update
Model crash, EGF	PWS TERR FAIL or major model overrun
Visual - models, a	aliasing, and lens movement
QTG issues - FA	A have raised concerns over the resource data for 1b3 and provided a list containing other failures
Resource Const	raints - do all parties have sufficient resources going forward to prioritize Boeing issues?
10:03 AN	
My guess, the w or 6-2	ote will be 5-3
	10:19 AM:
did Llget a ho	old of you?
10:22 AM	
and the second s	have been thrown to the wolves
His vote is defer	
Final list:	
Number of ousta	anding DRs - quantity touching almost every aircraft system. Failure to meet targets, duration of open DR that rate of closure, ECDs for certain systems being pushed to late 2018 or 2019.
Unknowns -	

Tiller control loading - requires another sofware update to an already frozen load and the best it does it restore the tiller to the known underperforring 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:	
Thave not	
I doubt will call in	
10:36 AM:	
Lancaure of the same of the sa	
Nor I - works for that is why I was asking	
jo:37 AM:	
Let's see how they do this	
0:37 AM:	
ok	
10:37 AM:	
wonder if is just lisening in	
Listening	
10:37 AM:	
maybe	
i10:55 AM:	
We know where ∜ vote is going	
0:55 AM:	
l know	
Are you wavering?	eny
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?

11:10 AM:	
hamman and a second	
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?	
1:20 AM:	
I got it from him about 6 weeks ago	
agree	
Thank you	
11:21 AM:	
He will be picking up the pieces	
11:21 AM:	
The state of the s	
yep	
11:25 AM:	
Got your night vision goggles? You'll have to do qual with the lights switched of	
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:	
이 도마이에서는 사람들은 아이들이 아이들이 아이들은 아이들이 되었다면 모든 아이들이 아이들이 아이들이 아이들이 아이들이 아이들이 아이들이 아이들	
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:	NATIONAL PROPERTY.
I'll end up there either way. There is no way anyone involved in ILC does not en	d up there
(facepalm)	
11:28 AM:	
Better invest in a bigger spade then	
11:31 AM: E	
ok then. We are good	
No problem then	
11:32 AM:	
so the reported count is 120 but we have closed 20 on this call	
Damn, we are good	
What about the 60 P4?	
And he hasn't worked there since 1990	
1995	
11:33 AM:	
Ok then	
It's a go!	
11:34 AM:	
I will still vote no - but has just pulled the rug	
j11:34 AM:	
Sounds like he is a no too **	
11:35 AM:	
He was meant to be backing me	
11:35 AM:	
sounds like he is???	
11:35 AM:	
Not sure Hope he does	
11:36 AM:	

it sounds like it to me
1:37 AM:
that's system checking isn't it?
11:37 AM:
yes it is
11:38 AM:
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:
L
exactly 11:39 AM:
Binary could be dead in the water
11:40 AM:
harden and the second
good shape for QTG?
11:41 AM:
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:
[18] 20 N N N N N N N N N N N N N N N N N N
Of course they did - it's all documentation Bold claim
11:48 AM:
of course!
Not issues here
11:49 AM:
Name and the state of the state
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:
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
111-EQ AM-
Money
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
the say yes a line said the tiller is back are way it was, callulated, and cell so passing

I.	1:16 PM:
٠.	ok .
	1:16 PM:
	So it comes down to air conditioning - but! still may say no
1	7:16 PM:
ं	Will you still vote no?
	If they fix it, will you say yes?
1	1:16 PW:
	If thinks there is a regulatory issue, the answer will be no
	1:17 PM:
	I will have to talk to him before then
ľ	1:19 PM:
	Yes - but you are in a quandary. asked if there were any other issues that prevented a Go beyond tiller/sound/master caution
	1:21 PM:
	That's true from a pilot perspective, but there are other issues too, like the QTGs, blanking screen etc
1	1:22 PM:
	I know - that is what people aren't considering
1]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
	From the control of t

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	
La Tolori		
can you forward	B:20 PM: this meeting notice?	
My outlook does		
	ead, but the meeting notice is not there	
	ad, but the meeting holice is not there	
3:21 PM:		
Sent		
	B:22 PM:	
	not show in my calendar on the ipad	
:23 PM:		
STrange - I	nt it twice - I'll try the other one	
	3:24 PM:	
It shows up on n	y company phone, but not on ipad. And my outlook asks me to sign in but does not acceept my sign	n in
24 PM:		
I have had that s	nce the last Windows update	
Try quitting outlo	ok and restarting	
I find now I have	to do that if I switch networks	
	:25 PM:	
l did		
3:25 PM:		
Ahhh		
	25 PM:	
Leyen shut down		
3:25 PM:		
That isn't good		
	3:25 PM:	
Let me try differe		
Let me try dinere	Street and	
offil and condition	3:29 PM:	
still not working		
3:29 PM:		
That's strange	hale.	
Might need IT to		
	3:29 PM:	
Yep		
3:31 PM This messag	wasn't sent to	
Yep		
	:35 PM:	
hmm		
lets see		
35 PM:		
What do you me	ın - it is a YES	
	:35 PM:	
haha		
:35 PM:		
	up and we aren't it	
	3:36 PM:	
your vote is the :	Park and the second sec	
	71	

1:36 PM:

The fact that it has taken 6 hours to review the outstanding DRS speaks volumes to the	state of the device
3:39 PM:	
No and No	
3:39 PM:	
yes	
B:39 PM:	
NO000	
3:39 PM:	
I am concerned on both	
Talli Conceilled oil bodi	
: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	
H 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	
8:41 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 problem	s stop
At this point, how can they consider continuing?	
3:50 PM:	
(facepalm)	
3:50 PM:	
(facepalm) (facepalm) (facepalm) (facepalm) (facepalm) (facepalm) (facepalm)	(m) (focenolm) (focenolm)
(facepaint) (facep	
	,
3:51 PM:	
(lafata)	
}:56 PM:	
That pretty much settles it then	
3:56 PM:	
It does in my view	
3:57 PM:	
Do you know what the final DR count is for tomorrow?	
\$:57 PM:	
1 minute	
total is 178	
P1 = 0	
P2 = 9	/2
P3 = 107	7.

	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
	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
1	4:07 PM:
1	just talking to
ſ	1:08 PM:
•	How is that working out?
ľ	10 PM:
ŀ	Hmm, same as always
	Not going to get anywhere
	just getting a history lesson in URT
_	Same as every other time
	1:14 PM:
	On - not good and no progress
	was right on the call though - whether the FAA express verbally that they want a dynamic scenario, if they do not
	demand it in the regulations, there is no need for it to be supplied
	I'm calling it a night - only an 18 hour day today
	Must be slacking
	Speak to you tomorrow
-	4:38 PM:
- 1	haba, the's disappointing. Liust did a 19 hour day (if Lount the sleeping Ldid last night)

From:)@boeing.com>
To:	Boeing Employees
Sent:	3/22/2018 9:25:37 AM
Subject:	Conversation with Beeing Employee
•	
Are you dialling	2:31 PM: in to the meeting?
2:32 PM	
Yes - 2 minutes	
162 - 7 Hillings	2:32 PM:
cool	_12:32 PM;
cool	
2:33 PM	
I'm on	The second secon
This is united	2:35 PM:
This is weird	re what to do with
Z:36 PM	solane - leave the DR open awaiting data
	that it is right before allowing it to be closed
	ade the priority if need be
TVO CAN GOWING	2:38 PM:
Ok, sure	E.So Fin.
2:38 PM	
But leave it oper	
	a backup if a regulator spots it again - EASA and UK CAA will likely test it
ERANGE AND ADDRESS OF THE	2:45 PM:
You ok with that	
2:45 PM	
to proceed the second	hey are just dispositioning DRs again - will take the video and send it to all parties
	2:57 PM:
Seriously?	
2:57 PM	
Its a bloody joke	
no a bioday joins	8:01 AM:
Just tried to call	you, wanted to see how discussion ended yesterday
8:04 AM	Table to the property of the p
	amed a poor connection - as soon as you dropped off line: started stating you had accepted it all in
November	
	nper with the whole thing - they fail to understand that the pilots subjective feedback is as important as
providing solitary	y test conditions that pass or do not show the full picture
I'll charge my ph	one during this meeting
	8:07 AM:
I didn't quite cate	ch what you were saying yesterday about the complaint from LGW in regards to go-arounds, what is their
concem?	
8:08 AM	
	during flap retraction
FD commanding	
Autopilot descer	
	8:09 AM:
ok	
:09 AM	
But they are pilo	its so what could they possibly know
ne Califold Little Later Little	8:23 AM:

Hope that came across clearly

8:24 AM:	
A STATE OF THE PARTY OF THE PAR	
It did but they don't understand they will be getting this from every customer of the Binary	
They are not equipped to deal with this product in their current capacity	
They will not just be dealing with TDMs but operators	
8:31 AM:	
This call is a waste of time	
It has digressed from what was planned and turned into the same old blame game and ego fluffer for in the	ie
CAE-glory days	200
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 environm	nent
8:36 AM:	
Exactly, that's why their prioritization is important.	
print see a second see	
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:	
the second secon	
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 :)	
In the second se	
8:55 AM:	
who is?	
8:55 AM:	
They do not understand the liability we as a company are taking on	
Jesus	
8:55 AM:	
haha!!!!	
9:10 AM:	
That was a complete waste of bloody time	
How is a lack of sim support and Binary resources our problem?	
9:10 AM:	
It was, except I'm glad I got my points across. I think they are getting to target fixated, can't the forest for all the	e trees
It really isn't. Staffing levels is someone elses fault	
9:11 AM:	
Annual manual	
Why are they only listening to you now?	
9:11 AM:	
and problem	
I don't know. Better late than never I guess, they apparently like to live on the edge!	
B:12 AM:	
Not sure if I will be returning in April given this - am not lying to the FAA	
Will leave that to people who have no integrity	
en and district an	
9:13 AM:	
I'm sorry, that is not acceptable. Your integrity is a priority 4.	
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
9:13 AM:	

From:	@boeing.com>
To:	Boeing Employees
Sent:	12/12/2017 8:43:40 PM
Subject:	Conversation with
6:35 Pf	vit:
the second of th	online. Go enjoy your family 8:35 PM:
	the computer down!
	you doing on this late?
8:35 Pf	
ok good	
	8:35 PM:
who are	
8:35 Pt	M:
I have a call with	to discuss MAX
they're idiots	
	8:36 PM:
Ahthe HUD stuff	
8:36 PI	
the morons who to	
	A in India is apparently even stupider
if that's a workd	real mana to apparently even stapaces
work	
word	
I'm drinking obviou	isly
	8:36 PM:
Sounds about right	t!
8:37 Pt	VI:
and I do this again	Thurs night with in India
	8:37 PM:
Did you see we go	ot the slot at midnight on thursday evening for landings?
8:37 Pf	VI:
more stupidity	
yes	O
with the control on the first an increase and the first security of the control o	gs, no instruments right?
	8:37 PM:
maceonarcoccus floors	have to actually travel to India
8:37 Pf	
	pparenti
	8:37 PM:
No instrument	3
8:37 Pf	At:
y ok good	
ok good EFF that	
so stupid	
p-1 10-11-0 (411-0 1014) - 411-15 (411-0 1014) - 411-15 (411-0 1014)	8:38 PM:
and the second s	You can do you landings and get out
New World Control of the Control of	landings
8:38 Pt	NOTICE TO SELECT
u sure?	
I don't mind stayin	g
*************	8:39 PM:

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

From:	@boeing.com>
To:	Boeing Employees
Sent:	6/5/2017 11:19:13 AM
Subject:	Conversation with
	6:54 PM:
CONTRACTOR	to Gatwick. First day in sim tomorrow
6:55	
how were the flig	
Copy me in on e wind additive	_j6:55 PM; mails if you dont mind, so that i can keep up to speed with what is going on at home, in particular RTL and
Flight was good, 6:55	but weird business seal layout on PM:
do you know if N	MAX sim in MIA has the overrun and speedbrake warnings activated, or capable of being activated? [6:56 PM:
I don't know. But	ould probably choose another airline over their 787 I will fire of an email right now to find out
6:56	parties.
I already sent or	6:57 PM:
Good	0:57 PM:
6:57	PM:
Now friggin	might need a sim to fly the MAX, and maybe because of their own stupidity. I'm scrambling trying to unscrew this now!
	6:58 PM:
WHAT THE F%\$	8.111
But their sister a	irline is already flying it!
6:58	PM:
l know	
	webex so we can thru this with the DGCA
not sure if this is	Lion's fault or DGCA yet
Let me know if v	6:59 PM: rou need me to go down for a day while im there, not ideal but if we have to we have to
7:00	[19] [18] [18] [18] [18] [18] [18] [18] [18
	A guys is coming for the delivery so we can always get him there
	hey're making a training determination on Wed, so that's why I'm trying to jump on this tonight with them
	7:01 PM:
You definitely wa	ant to be in front of that one!
Unbelievable, wh	nen will these curve balls stop coming
7:01	PM:
its unreal man	
if we can make i	t thru summer we'll be ok, in theory
F F F F F	
	saying and hearing the same thing at the end of last summer!!
7:02	PINE
ha! good point little did we know	
	nd a VNAV and Flight Director question from 102
	7:03 PM:
Prbably	he has helped me out recently
Or if it is more F	
Or both	

7:04 PM:

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

From:	@boeing.com>
To:	Boeing Employees
Sent:	5/1/2017 3:38:16 PM
Subject:	Conversation with
9:04 A	AM:
oeprationally, who any big show stop	
Not that I know or	9:04 AM:
9:04 4	
	ule changes for MUH
the perf be a bit I	
	9:05 AM:
Yes, seems less	restrictive in FAA
9:05 A	AM:
anything else?	
	9:05 AM:
	argins in the FMC is only 0.2 g instead of 0.3 g
with FAA rules	
9:05 A	
is that in the AFM	
I'm not familiar or	9:06 AM: nough with the AFM, I'd say run it by
9:06 A	AM:
I am now, he's no	et really chiming in
Ok. If you want. I	Can review them. Contrast and compare
9:09 /	4 FIGURE OF THE STATE OF THE ST
the property and account of	eed you to do that. I'll have send you
we'll chat about it	at the 10am
	9:09 AM:
Please do, I'll loo	k at it as soon as I get it
Also, I am workin	ng on wording for theU13 issue, we need to agree on what to add
we need to break	down the pure operational impacts/limitations differences specifically for it looks like
	ed to convince them to convert to FAA rules to simplify AFM approval by their GCAA. It's really explain on the 10am call
will get some	sone else the performance differences
THE WORLD SERVICE OF SERVICE OF THE	9:18 AM:
Ok, sounds good	
9:21 A	
thx sorry. Dut wit	h me traveling to MIA tomorrow for the week I just won't have the time
May you are takin	9:25 AM:
9:26 A	ng more one for the team at the moment!!!
we all are	UVE.
12:05	PM:
THE RESERVE AND ADDRESS OF THE PARTY OF THE	book the ecab foron the 9th?
	12:16 PM:
l díd	MARKACA AND
32:16	PM-

cool thx

12:26 PM:	
check out the pics of the pilots in thatbrochuresent! They look like 12 years old! JESUS!!!! They do not old enough to drive, or drink!	n'i loc
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 crzyl	
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 rotations, you gets used to it real quick though and can easily achieve an even rate. I just hope all these courses get approved	few
2:24 PM:	
I do too, although part of me wants to see it fail so we can say, "WE TOLD YOU SO!" that's kinda sick of me, huh?	
2:24 PM:	
I will probably meet the minimum requirements though	
2:26 PM:	
we'll see	
it's a complete S#IT 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 shift	
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 targe speed to the new altitude.	t
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.	5
the Descent phase will be entered from a Cruise Descent at the time the extended descent path is captured. Note: CRZ DES will not capture an extended descent path if the CRZ altitude and descent altitude constraint are the same or this:	
Note: CRZ DES will not capture the normal Descent Path if the CRZ altitude and descent altitude constraint are the same.	Ē

2:32 PM:

l like the 2nd one	
2:32 PM:	and and
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	and and
2:33 PM:	
does it say anywhere how you actually do the CRZ DES?	
2:34 PM:	
That is the whole section right there!	
2:34 PM:	
it doesn't mention use of ?	
it doesn't mendon use of	
what does it say about that switch? Did they cross reference them?	
2:34 PM:	
the state of the s	
No, they put that in 3 other places though!!	danas
I'm telling you, no wonder pilots are having problems reading the FCOM, we scatter stuff around in so many p	neices
They actually describe CRZ DES in the early descent section	
when you use	
2:48 PM:	
egeds .	
2:49 PM:	
MESS!!!	
2:57 PM:	
go ahead and bounce your proposed from 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	
A Language and A District a recommendation of the contract of	
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	(2)
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 di	ps in them!
Cheaper beds are better for my back	
3:27 PM:	
we're gonna try the sleep #. Every other bed has sucked	
3:28 PM:	
Let me know how that works, I'm in the same boat. It messes my back up. I sometimes have to sleep in the g	guest bed
just for my bed	
back	
B:28 PM:	
will do	
although I won't be sleeping in it til June at the rate I'm travelling	
3:29 PM:	
frue	
11 Marian	

From:	@boeing.com>
To:	Boeing Employees
Sent:	4/26/2017 12:03:48 PM
Subject:	Conversation with
1.00	t and the second
11:06	AM:
I'm going to bed i	now, leave in 8 hours for airport. I'll land around 1230 Thurs. Anything before I sign off til then?
	11:06 AM:
Nothing on fire!	
and the second s	shut eye before the flight
11:07	AM:
except	
and my shit	
	11:07 AM:
true	
11:07	
and all the buileting	ns that need published
	11:07 AM:
	n other small issues
11:07	
and ford knows w	/hatever else l've dropped the ball on ☐11:07 AM:
lie weeking v	
Let's see how the	with standards since the T5 test should all have been done a class 1 airports, Moses lake is class 2
11:08	
	do we get away with only using MWH in our type rating course, cuz it's 142?
mati meditori	11:08 AM:
Because 142 is d	lifferent from what she is looking at. I don;t understand the details. is "working" with
11:10	[1] 조막 경우 사이에 회에서 되어 가장 이렇게 되었다면 이렇게 하면 이렇게 되었다. 이렇게 되었다면 하면 이렇게 되었다면 하게 되었다면 하게 되었다면 하게 되었다면 하다면 하는데 보다면 하다면 하다면 하다면 하다면 하다면 하다면 하다면 하다면 하다면 하
WHAT A MESS	
	11:11 AM:
Anything TD touc	
11:17	
think of the \$\$\$ w	vasted on those useless bags of #\$@% the last 3 years
you and I would I	have put together a killer perfect course if that was all we had to do
and done it in like	a,3 months
	_11:18 AM:
	g the waste of time, effort and money that was completely avoidable!
	n of the cost and time
11:18	AM:
ridiculous 11:39	***
Total Section Company of the Company	ant confused enough. is trying to say it works per design!
Olvio, as ii i was	11:39 AM:
Sounds like a suc	cky design if that is the case
11:39	
	d they build a cruise descent that only works form the initial VNAV path!
Tilly the ties would	11:39 AM:
doesnt make sen	***************************************
	FMC related FCOM pages for them to review
11:41	
terrible design ar	nd there's no way the ECOM 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 yours

	sleep in last 30 or so
	11:42 AM:
	Get some rest!
1	11:42 AM:
	I'm just praying the musical porn show doesn't start up again at 3am
r	11:43 AM:
٠.	LMAOI!! Hey, its free porn!
r	11:45 AM:
	who cares when you're exhausted
	I'm friggin delirious dude
	between this FMC crap, the issue, and everything else I'm spent
r	11:47 AM:
١.	I bet, you need some time off!
d	11:50 AM:
Į	
	uh yeah! we all do!
r	by we, meaning the 737 group, the rest of the slackers can pick up our work!
L	11:50 AM:
	The FMC ignores the altitude????? WTF!
	Agree! We should get them to do CS3s for us
1	11:51 AM:
	right?
	nice find in Vol 2!
	this airplane is designed by clowns, who in turn are supervised by monkeys
ì	11:52 AM:
	Sounds like they are implying that the description is correct, unless you get a change to clearence!
1	11:52 AM:
į	piss poor design
1	11:52 AM:
	This FMC shit must get much better
١	11:52 AM:
-	just like you said, if I enter a new altitude or AS constraint, I expect the cruise descent to figure out the new path to it
	oh I'm sure it'll get better when Boeing engineers design a whole new one
,	wait? Who is left to do such a thing?
l	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!!!!
į	11:54 AM:
	can do it, I'm sure he's bored now
	11:54 AM:
	Normally the FMC is tested during an entire flight test program, like the 787 or 737 MAX
	11:54 AM:
	jesus, it's doomed
_	any cab testing like we asked for?
	11:54 AM:
	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
Γ	11:55 AM:
Ī	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
İ	, Patrik H 11:55 AM:
١	haha, just what we need!
	Let's just petch the leaky boat
-	11:56 AM:
	of the 4 options, the one that I felt sucked the least, and had the least potential for full sim training was using the
	functionality.
	His input from pilots was very limited. The 4 we tentatively brought forward to include Spoiler Pitch
	Augmentation, Elevator Feel Shift, TSP Annunciation, and Flare Guidance.

11:56 AM:		
	option. Doing nothing doesnt seem to be an option	
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:	NE SEE SEEL OF THE FEET STEEL CONTRACTOR OF THE	
Lagree	*	•
11:58 AM:		
that's for these smart engineers to f	igure 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!		

From:	@boeing.com>
To:	Boeing Employees
Sent:	1/31/2018 9:38:16 AM
Subject:	Conversation with
9:	16 AM:
said	cooridnated it on the way to Russia. I asked him for any email trail
the state of the s	but did not know if there was an AR pilot
	22 AM:
from	
	the didn't believe there was any discussions with the cert pilots on this.
(tmi)	to make up at locat and this dute this whole makes
enterformente and comme	to mess up at least one thing during this whole process :24 AM:
	inking, why this is a big impact?
if the cert pilots alerting philosop so we "snuck" it and on a persor pilots, when now probably the on	were never told this was coming, they didn't properly evaluate if for cert purposes, to keep with our only for engine indications, that turning the oil temp amber for 31C and below is required. Into the FCOM without them knowing, you know they don't actually review the FCOM and note, I kind of belittled on that call yesterday stating we did coordinate it with the Model ARs wit looks like we didn't by one we missed.
	:30 AM:
the NG and MA	he whole issue about the engine instruments not indicating a green range? somehow that was certified on X. that i believe is a bigger issue than this one 37 AM:
- philosophiconomical	It have it on the Tues agenda
la a management and a	:38 AM:
ck email in a mir	nute, have some info on why only white ranges is acceptable

From:	[
ient:	12/12/2017 9:44:16 PM	
0:	@boeing.com;	@boeing.com]
ubject:	Conversation with Boeing Employee	
	9:17 PM:	
jesus, get	off the computer and go drink with your wife!!!!	
	9:17 PM:	
been ther	e done that	
taking sor	ne time off late next week	
	9:19 PM:	
good	· · · · · · · · · · · · · · · · · · ·	
this is gar	bage that 3 of us are online right now, and I had to boot off 30 n	nin ago
flex or OT		
garbage t	hat we're working this hard	
	9:19 PM:	
that is the	story of the 737 group	
	b:20 PM:	
know bu	t we need to be able to justify replacing	
not that v	/e can	
	9:20 PM:	
agree and	l agree	
its a fine l	ine	
	9:22 PM:	
no it's a B	Sline	
	\$:22 PM:	
yeap	and the second s	
	9-28 PM:	
grey goos	e is yummy	
and the little	9:28 PM:	
are you ju	st starting? or just going?	
):29 PM:	
half way		
	19:29 PM:	
funny, i w	as having some Bowmore Scotch, very good	
	9-29 PM:	
also tasty		
l just jedi	mind tricked this fools.	
I should b	e given \$1000 every time I take one of these calls	
	DATA TO DE	

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

From:	Boeing Employee				
To:	Boeing Employees				
Sent:	2/25/2016 7:57:28 AM				
Subject:	RE: For 2pm				
	ele issues that led to the crisis in confidence –				
The second secon	ement on previous programs (747-8, 787-8)				
The instructions in	in we typically would be (people are used to a "firm" aero config at TIA) the order relative to TIA (states/implies strict transition from company testing to FAA) don't				
The D6 document really describe who see that in how dischanges with absorbetail to list what twould have helped or rejecting). No changes and thus	d approach well which leads to different interpretations to TIA instructions/requirements are too vague. Because of that there is no plan laid out to not we are doing relative to the airplane configuration after TIA and getting to certification. You afterent systems groups are addressing the issue. Some just say they will address post TIA plutely no details of what they are doing to support their certification tests. Others went to great they were doing. A clean story of what we are really doing to get from TIA to cert tests to cert directly resolve this. Thus there is no confidence that the FAA is understanding what they are accepting confidence in how to interpret what is acceptable and not acceptable for post TIA configuration no confidence that ARs are doing the right thing in "concurring".				
	ng Employee				
	ebruary 25, 2016 7:35 AM ng Employees				
Project Administrate	or				
Boeing Regulatory	Administration				

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 Em	playee
400-00-00-00-00-00-00-00-00-00-00-00-00-	lovember 17, 2015 2:21 PM
To:	Boeing Employees
Cc:	Boeing Employees
Boeing Employ	
has not been a second to the second of	mportant Help Needed!!!EASA RSAT/RCAS ECD dates
Subject. NE. III	Inputational residence from the first one constitutions
The FAA AEG re	fuses to negotiate the training level determination for either RSAT or RCAS until the TIA is
	by review it with the SACO pilots. We've got their preliminary approval of the RCAS CBT, based
	hat CBT is currently being revised. Now that we know the scope of the RSAT alerts that will be
	work to finalize the RSAT CBT. As we understand it now, the RSAT functionalities to be certified
	are ORW (in air and on ground), PRW, and the SPEEDBRAKE alert. If this is not correct,
	to let us know that.
To be clear, just b	because the AEG approved the RCAS CBT, that does not mean they approved the CBT as the
only training requi	ired. I'm fairly sure they will push to have at least the ROLL AUTHORITY alert trained in a
simulator. We an	e going to push back very hard on this, and will likely need support at the highest levels when it
	ne final negotiation. has already pledged his support for us obtaining Level B (CBT)
	g required for RCAS. Failure to obtain Level B training for RCAS is a planet-killer for the MAX.
A SHOOT WATER CONTROL	
We can also expe	act the AEG to push for simulator training for some or all of RSAT. We will also be fighting
against this as we	
270	
We are well prepa	ared to have this training level discussion with the AEG for both RSAT and RCAS.
If you need more	information, please let me know,
12071 97	
Thank you,	
L.,	
737 Chief Technic	al Pilot
O BOEINE	BOEING EDGE
PROFINE	Flight Services

From:	Boeing Employee esday, November 17, 2015 2:02 PM
To:	Boeing Employees
Cc: Subject:	Boeing Employees RE: !!! Important Help Needed!!!EASA RSAT/RCAS ECD dates
How are	we doing with the flight crew training requirements?
The state of the s	Boeing Employee onday, November 16, 2015 10:58 AM
To:	Boeing Employees
Cc: Subject:	RE: !!! Important Help Needed!!!EASA RSAT/RCAS ECD dates
Great ne	ws!
Boeing	Commercial Airplane Group
A STATE OF THE PARTY OF THE PAR	stems Chief Engineer
Blackbe	The Control of the Co
Fax:	
M/S 9W	-18
From:	Boeing Employee onday, November 16, 2015 9:21 AM
To:	Boeing Employees
Subject:	: FW: !!! Important Help Needed!!!EASA RSAT/RCAS ECD dates
This is g	reat newstill See below!
· · · · · ·	
Senior Lea	uder -
	Displays, Navigation, Inertials, RSAT, Software/AEH)
	nuncreial Airplanes
](Desk)
Text/Celli Email	
Series and	iorized Representative Areas: DMA, Displays
Texture .	Roeing Employee
2414 6966	onday, November 16, 2015 2:54 AM Boeing Employee
Cc:	Boeing Employees
	Employees
Subject:	: Re: III Important Help NeededIIIEASA RSAT/RCAS ECD dates
We met	with EASA this morning. Based on conversations with last week and his review of the
FAA IP.	does not believe EASA will issue a CRI for differences to the FAA cert basis for 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: III Important Help NeededIIIEASA RSAT/RCAS ECD dates	
Please let us know if you had a chance to talk to EASA team to have an ECD date for them, or understanding if there will be a spate CRI for ORW and/or RCAS. We would in this matter.	
Thank You,	
Avinonics Management	
Cell	

From: Sent:	@ussevm18.cs.boeing.com @ussevm18.cs.boeing.com 6/7/2013 9:13:10 PM @boeing.com PRG - 37MAXFCI-PDR_AI22 - MCAS/Speed Trim			
To: Subject:				
			ification of any prog	
+				
A STATE OF THE PARTY			tem info and the new ink below or use itra	
To view and	or edit the ITRACS in	em, select this item r	number link 37MAXFCI-PDR_	AI22
	37MAXFCI-PDR_A CAS/Speed Trim	122		
	Category:			
	fodel:		737 MAX -8	
E	Phase:		COMPLETE	
E	Effort:			
I	leed Date: CD:		JUL-01-2013 00	:00:00
	Mext Phase Due:			
Coordina	tion Responsibi	lity:		
(Company:		Boeing	
1	lesp_1:			
F	Resp_2:]
+				
when	what	who	(by who	when added/updated} (US Pacific Time)
+	****			
07-JUN-2] [07-JUN-2013 08:29:23
	eeting Minutesi left the name a			ction as a speed trim
type fun				
		is a new fund	tion there may be a g	reater certification
	ning impact.	to Perced Date		
	as an addition		is an addition to Sp	and Trin
			nym MCAS (within vari	
			pective to ensure thi	
acceptab.				
Committee of the commit		ech presentati	on is consistent with	intent that MCAS is
an addit	ion to Speed Tr	im.		
07-JUN-2	013 PROP RES		1	07-JUN-2013 12:16:39
After sp	eaking with the		concurrence was pro	vided that we can
			internally [variable	
atill cu	maidering MCAS	to be an addit	ion to the Speed Taim	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
Any of the Binary 21:14: None Because J21:14: Two motion failu	will roll ALE [also TRU issue] has occurred - not going well for them when the blame game starts to be played [21:14:
	pest not be their fault
21:17: It looks like they	actailtiús
Whining about the But this is what I All of these issue That	I - the FAA inspector was briefed by and was negative from the get go number of DRs, not Boeing 'quality' etc Inspector property and was negative from the get go number of DRs, not Boeing 'quality' etc Inspector property and was negative from the get go number of DRs, not Boeing 'quality' etc Inspector was briefed by and was negative from the get go number of DRs, not Boeing 'quality' etc Inspector was briefed by and was negative from the get go number of DRs, not Boeing 'quality' etc Inspector was briefed by and was negative from the get go number of DRs, not Boeing 'quality' etc Inspector was briefed by and was negative from the get go number of DRs, not Boeing 'quality' etc Inspector was briefed by and was negative from the get go number of DRs, not Boeing 'quality' etc Inspector was briefed by and was negative from the get go number of DRs, not Boeing 'quality' etc Inspector was briefed by and was negative from the get go number of DRs, not Boeing 'quality' etc Inspector was briefed by and was negative from the get go number of DRs, not Boeing 'quality' etc Inspector was briefed by and was negative from the get go number of DRs, not Boeing 'quality' etc Inspector was property and was negative from the get go number of DRs, not Boeing 'quality' etc Inspector was property and was negative from the get go number of DRs, not Boeing 'quality' etc Inspector was property and was negative from the get go number of DRs, not Boeing 'quality' etc Inspector was property and was negative from the get go number of DRs, not Boeing 'quality' etc Inspector was property and was negative from the get go number of DRs, not Boeing 'quality' etc
21:21:	THE CONTROL OF THE PROPERTY OF
Binary is now go	g to get their first NQT/unacceptable but this will be blamed on TRU integration
5 - 1 \$ 4 - 14 E	21:21:
21:21:	ee with the inspector at all: 115 declared DRs is unacceptable
	ully aware of which issues reside with whom?
103 Day dre mey	21:21:
And I'm assumin 21:21:	we didn't declare any of the major issues he's finding
98 it got to	
	21:22:
Probably becaus 21:22:	hid 25 in "transit" between Binary and TRU
I agree - this is withere is no training	hat I said toand which is why I said it shouldn't go ahead. There was no need to take this risk given
	21:22:
Worse This makes it ye Where there is t	likely UK CAA won't extend LGW
21:23:	
	Singapore - the house of cards is starting to topple \$\int 21:23:
The house of car	Is built by SMS

21:24:	
Sadly, a part of which I am	
£1:27:	
SMS PM	
21:28:	
So much of the brown stuff is going to be thrown that I don't think anyone will	be safe
21:29:	
No doubt	
Wanna come to Fleet Care?	
21:30:	
Yep - can't work for any longer. He doesn't get it	
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
3.514.857	
	17:37:
hey I need to cat	ch you before this meeting
17:37:	
	TRB is going nowhere
17:38 Connected to	NO. 00 A CO.
17:48 Call with	(Dipoeing.com) has ended. Duration: 00:09:58
17:46 Call With	
	_19:14:
ADDRESS OF THE PARTY OF THE PAR	e time to speak to any other issues that haven't bene mentioned
19:14:	
They have all be	
	19:14:
ok	
19:22:	
Thanks be	
	19:39:
	e 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
	o appreciate that a delay would be less costly than the incurred costs for sustaining this, particularly as
	d to be changed immediately.
	your opinion? It all sounds plausible on face value but one slight error would compromise everything.
- Action straying	19:43:
	nswer is it's not ready. I think we could get through it, but we'd be doing it just to save face. The bigges FAA can't come back for 3 months it risks the program.
19:44:	
There is no press year and both	
weeks ago	unately in 3 campuses went unused. 3 campuses only got to the same standard sustainment-wise two
	ning a load that is >7 months old
device	fferent and given we need TRU to fix things, how will they cope given that they are struggling with the and have our #5 IPA coming up.
	the resources or bandwidth to deal with 6 different device QTGs going on at the same time
We also need to	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 p	
19:57:	ied, how do we expect to turn around 7 day fixes if :is en-route to Singapore?
k accommond	ly isn't high enough
5-3	
Thought so	
The state of the s	

From:	i@boeing.com>
To:	Boeing Employees
Sent:	4/8/2018 8:10:13 AM
Subject:	Testing of TP 2.3.57 / Binary 3.19.4.0a
15:37: Thought it was ju	ing it do that previously either - it was repeatable though
	N5:37:
	where near that bad ou pitched down it followed you
I think it follows to	he pitch attitude too much
15:38:	
little slow on the i	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
	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
	15:40;
I don't see how to	his will get fixed next week
But hey, their *oth	her" pilots can probably sign this off as no training effect
15:40:	
Still can't reprodu	ice the FD commanding a descent during VNAV acceleration S/E - will see if you can do that when you
arrive	
No issue whatso	ever
	15:40:
We'll look at it ne	
	that 125' issue too
But to be honest,	I hope I get hit by a bus between now and then, really don't want to be there
15:41:	
I spoke to	bout that last night
	15:41:
What's his take?	
15:42:	
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 phonedlast night who to the TRU engineer.
1	[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
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 wars rejected
	many were rejected.
We need to put up real numbers	
You, me, and saying it like it is doesn't work. It just doesn't stick with people. Hard numbers	will noperuity do it.
If not, then we are truly screwed	
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 the	at. He agreed
Will be interesting to see if he backs up talk with action	
15:50:	
	end the graph and the control
I think they mean close as it is offered to be checked, for the purpose of the sprint. I'll give them to	hat, 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 comple	ted
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:	
CONTRACTOR AND	
Ok, that may help a little	
15:53:	
But still not the big-ticket items such as FUEL FLOW etc.	
115:53:	
They can downgrade to P4, but we still have to disclose anything with a flight deck effect on the F	&S
15:53:	(0.07)
를 하는데 하는데 이번에 하 셨다면 되면 있습니다. 그런	
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:	
	citly that there are other
pilots who have a say on if it has a training effect	any men mere are officer
15:56:	
	and I will not allow him to
do it. If I need to, I'll emailor 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 think 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	400
rimino, dee jeu eeen	99

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

From:	@boeing.com>
To:	Boeing Employees
Sent:	3/28/2018 8:21:29 AM
Subject:	Conversation with Boeing Employee
How you feeling	a?
	15:01:
not bad, runnin	g at slightly slower speed than normal and a bit sore still!
Must have bee	n a terrible shock - do the doctor's have any idea what caused it?
not yet - and bi	zarrely the best outcome is they don't, and that it remains a one-off!
Ergghhh - not a	good response
All DRs are in 1	FDMS in SMO or Campus - LGW has a lot of DRs that insufficient information is provided - they may but the instructors aren't helping with the brevity of their responses
CONTRACTOR OF THE PARTY OF THE	will be transferred to the campus closer to qualification but the plan is to have much of it resolved in the
	15:42:
on what is need get-together wi SMO stuff to the against the get	e can 'hit' the instructors at LGW via a couple of ways - the updated DR process I'm writing with more info ded for raising DRs, plus some separate things that came up with FT here at LGW where we'll be having a ith them! Understand totally about TDMS, ECDs etc - it was us that arrived at the solution of not tagging the ne device if not resolved! - I'm just trying to figure out where to get the most 'objective' picture of progress -to-green plan.
15:43: SMO is a good	place for the outstanding issues - the Miami device has very few device specific issues due to low usage
ok, thanks	It ake it you are fed up with being in MIA totally now? Are you leaving MIA because of the 30 day thing?
	ed up with Miami. I'm fed up with the meetings that include countless managers who have no understanding the simulator or the problems that will arise, Everybody is investing more time in blaming others that actually am
	ens of spreadsheets flying around and none of the data is in sync - nobody questions on the IPT why ECDs are not included in sim support metrics - how many are outstanding 5, 10, 500? It is masking figures secreption
Nobody question	ons how SDSRs requesting assistance can be closed with the comment "this is a TRU integration issue" - is a grey box provided by Boeing as part of the BSP
	15:49:
	out I also agree withithat there has been bit of a mind-shift in the past couple of weeks towards actually sing stuff instead of passing the buck. Is it too little too late? - who knows at present!? Will be in MIA during pril?
15:49:	
Audit or confer	ence? aving before then I believe
	to FAA is 20th April
	15:51:
15:51:	e FAA in ATL, then a verification audit visit to MIA in the 2nd half of the week
OK Thought you w	eren't meant to travel
Tribagin you wi	15:53:
I'm OK to fly, I for the week!	just had to cancel Shanghai as I was due to depart the day after I left hospital and they signed 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:
l 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
10:17:45.01	Institute in constitute in the confirmation of
	103:33:
I feel like such 103:36:	
	ems to be the problem at Igw - not the switch I thought
	J03:36:
interestgin	
*interesting	
	i03:40:
	't have guessed that.
)03:40:	
nor i but it conf	
Great!	F 03:41:
TRU will be the	ere at 09 00
D3:41:	
ok	
	03:41:
By the way, I w	vant a really honest assessment from you; are TRU really doing their job fully, and by extension, am I?
	live 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:	
	in't need to ask such silly questions. You are doing a better job than the PMs - if I ask you something, I get what I need. If I ask SMS PM, I get buggered with a banana
That's a loss he]03:43:
That's a low ba	but it's a fantastically low bar
	t there are (at least) 97 DRs
	3 is so out of date
	all the issues at SHA
the section of the	MAX has been AOG for damn near a week
03:44:	
	are disorganized, chaotic, dysfunctional, but hard working, honest, open to criticism [and there is a lot] but other TDMs but are cheaper and have to date, not failed to meet a major milestone
	D3:44:
Thank you	ver 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	
	ause I miss my family so much when I spend so much time away.
	how much I appreciate your presence on this program. I've been trying to find a way to get you on the 777X t know how else we would succeed.
03:46:	
	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
then lost the ro	se-tinted glasses.
	orking so hard because you are trying to support your family - it doesn't seem like it to them and probably thow, 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 But it's mostly depressing that it's so few	truth
j03:50:	
Honesty is the only way in this job - integrity when lives are on the line on the aircraft and training taken with a pinch of salt. Would you put your family on a MAX simulator trained aircraft? I wouldn't	ng programs shouldn't be
D3:51:	
No	
03:52:	
is probably the best person to talk to if you have reservations - mine are grave at the for you orbeing thrown under the bus. I do not believe at this rate the Level D deadline is have Boeing taken TRUs comments regarding the sound package? That is a critical Level D could be wayside because we have asked TRU to tune to a poor quality data package	s achievable. How seriously
D3:53:	
Our arrogance is our demise.	
I really like but the arrogance exhibited about the quality of the data package is appalling I'm sure you, me, and will all be sacked if we keep our position. I'm not kidding - if I could vote "no go" on the MIA iLC	
03:56:	
Me too but it wouldn't have made a difference - we can only draw that line in the sand and let o callover the weekend to have a frank discussion as to where we are I like simulators and have enjoyed tremendously working on this program - it is only a job after a	943 Million (1700)
dispensable when we it comes to it. I'd rather not get fired but my integrity means more to me than a pay cheque	all and we are all
1 103:57:	
Lagree	
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 instructor io3:59:	rs who use the device
If you get a "no" from TRU, or even hesitation, let me know immediately.	
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 andback to the surface04:10:	
You OK? No problems at home? Make sure you spend some time at home this time before you	ı go away again
p4:11:	
No, no problems at home	
I just have these swings	
04:12:	
Get some rest - don't worry about waking up early tomorrow to take me in. I can catch a taxl	
No, no	
I'll be ready at the car at 6.15	
Best part of the day, really	
04:12:	402
Nahh - now I know you are kidding!	103

04:12:
No, seriously
)4:15:
Car at 6.15
It's ON
04:16:
Manyana
LGW:
Autopilot stab trim cut out switch is toggling
Also Copilot Yoke Autopilot Disengage is doing the same thing
04:18:
Lovely
04:18:
Wonder what that might be in hardware
04:19:
Great question, though I have had a concern about their overall wiring and general EE skills for over a year.
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 shuldown, 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:	Boeing Employee
To:	
Sent:	'4/24/2018'4:02:27 PM
Subject:	RE: Updated QTG
I agree with g from the Boein	you entirely and agree with the whole failure to plan this program properly ng side.
no support - : swapping some	k and tired of being put in the middle of this with pathetically week PMs and Singapore has done nothing except break the simulator - the PM here is now form of isolator in the cockpit for reasons unknown - he has no training on thinks he knows what he is doing.
At this rate, - I have had	I will not be returning to Miami this trip or coming out again to either site
Original	Message
ron:	
Sent: 24 April Fo:	@boeing.com>
Subject: RE: 1	phased Qre
schedule simp: the circumstar engineering so 2017 despite (conservative"	ect result of a pour plan which I objected to repeatedly since day 1. The ly did not permit for any corrective actions to be taken; particularly given notes of the program and for a device which is clearly undermaintained. No apport was ever planned in Singapore as per the change order executed in fall my objections when my initial proposals were refused for being "overly. Moreover, given the need to extend residence in Miami, the Singapore a always going to be small and take its cues from Miami. This was discussed on.
caused recent:	of the HW issues on MAX 2 were previously reported and a number of them were ly 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 se addressed : there is a lin	, we will do our best to accommodate however the understanding was always to me document as in Miami run on the same load. Whatever deficiencies exist will in Miami for both campuses as required prior to the qualifications but again wit to what can be done in 36-48 hours. Moreover it seems that we have sound tend with as well which needs to be our primary focus right now.
	rised by the outcome of the F&S. Nothing much has changed in 4 days so I ing the F&S in Singapore to be any better than that of Miami. If anything it's e I imagine.
fe will contin	nue to work out out issues but a lot of this is beyond our control.
	ilding a new load this evening and offering another 6-8 DRs. I will forward otes shortly.
Sent from mob:	ile device.
	

From:
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 askedlto contactlregarding the IQTG latency methodology as I had concerns - Jon is likely to reject these tests outright.
I also want answers to all ofquestions before Thursday morning Singapore time so that I can try and discuss them with him.
Given the current state of the device, QTG, and the lack of engineering resources on site, I cannot conscionably allow the device to be put forward for qualification and certainly will not be permitting the pilot to sign the F & S checklist. Given that there is no other opportunity for doing this, this part of the QTG will not be signed prior to arrival the day prior to qualification.
Attached are the questions I would like answered.
From:
Sent: 24 April 2018 15:21
To: Bboeing.com>
Cc: L 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:
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: [Bboeing.com] Sent: Tuesday, April 24, 2018 10:18 AM
To: Subject: Updated QTG Importance: High
ні [,
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 Global Services Tel
Company Registration Number: 3802219

From:	Boeing Employee	
To:	Boeing Employee	
Sent:	2/20/2017 7:14:29 AM	
Subject:	RE: + 777 ECL COC update request	
	The second secon	
So they won't fix	anything just like they don't in LGW, hence the large DR count.	
Makes sense		
From: Boeing E	Employee	
Sent: 20 Februar	ry 2017 15:14	
_		
To: Subject: RE:	777 ECL COC update request	
Yes the holy trinit	ty of slackers	
From: Boeing Emplo	CALLING .	
Sent: 20 Februar	HIND STATE	
To:		
	2) boeing.com> 777 ECL COC update request	
Oh ok – who is o	on the course?	
	P	
F		
From: Boeing E		
Sent: 20 Februar		
To:	@boeing.com>	
Subject: RE:	777 ECL COC update request	
I think this bit is the	the motion system so maybe they have someone coming from MOOG	
From: Boeing Emplo	Cyee	
Sent: 20 Februar	ry 2017 15:10	
To:	@boeing.com>	
Subject: RE	777 ECL COC update request	
Don't know who i	is going to do the training	
From: Boeing E	Employee	
Sent: 20 Februar		
To:	@boeing.com>	
Subject: RE:	777 ECL COC update request	
They should be in	in Miami from today for 6 days!	
From: Bosing Ereptor	oyen	
Sent: 20 Februar		
To:	@boeing.com>	
Subject: PE	L 777 ECL COC undate request	

No - they were in Holland From: Boeing Employee Sent: 20 February 2017 15:08 To: @boeing.com> 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: Dboeing.com> - 777 ECL COC update request Subject: RE: 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 about asking him to redesign the brake feel on Fri afternoon the week before the Evail He accidently forgot to hang up and after an expletive laden discussion with his Mrs heard the call drop. then called back to say maybe it wasn't such a good idea so late in the day! Safe journey home. From: Boeing Employee Sent: 20 February 2017 12:22 To: @boeing.com> 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 of ""on Site". Needless to say, I tore straight into and about the lies and the unethical/deceitful nature of this comment as it meant I was set up to take the blame should it have gone wrong.

It is a joke and nothing more – whilst 9 PMs were on Site last week during the evaluation, it was for a jolly/free meal. One PM even said that given that we are under budget, we should hire a yacht a sail around Miami harbour to celebrate and even asked to submit the request...

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.	3 - 3,

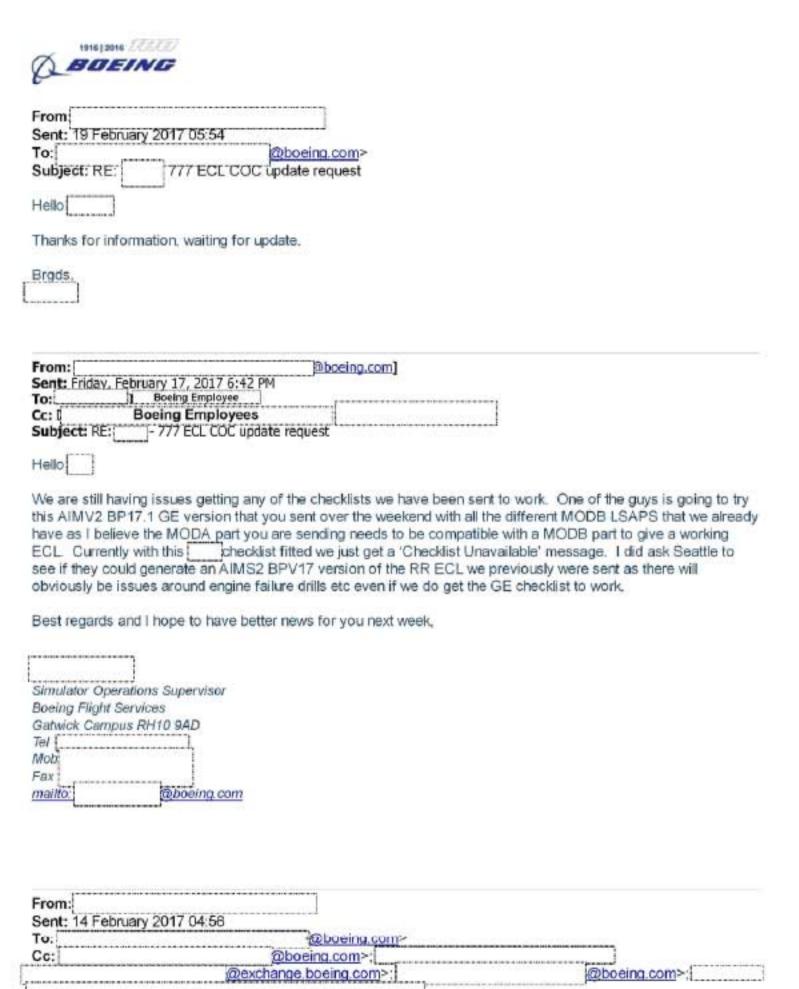
From: Boeing Employee Sent: 20 February 2017 12:13	
To: @boeing.com>	
Subject: RE: 777 ECL COC update request	
No problem - there is nothing you can do to make it work if it believes the	engine configuration is wrong
140 problem — treie is nothing you can do to make it work in it believes the	ergire corrigulation is wrong
From: Boeing Employee	
Sent: 20 February 2017 11:55	
To: @boeing.com>	
Subject: RE: 777 ECL COC update request	
Oh. Ohaara for the hands until tellet think it was a bit of a stresse requires	as all the coolea fall arrand was up to
Oh – Cheers for the heads up! I did think it was a bit of a strange request	as all the engine rall procedures would
not work properly.	
Thanks	
That is	
[
Name (grained)	
From: Bosing Employee	
Sent: 20 February 2017 11:54	
To: @boeing.com>	
Subject: RE: -777 ECL COC update request	
Subject. NE.	
3.34-3.71.31.31.3	
It is impossible to use a GE checklist in the RR configuration – it just will no or not.	ot work regardless of whether it is valid
From Boeing Employee	
Sent: 20 February 2017 09:27	
To: Å	
Cc: @boeing.com>:	@boeing.com>;
@exchange bo	
Subject: RE: 777 ECL COC update request	
Lancard Control of the Control of th	
Hello	110

Honestly, you wouldn't believe it

Our options going forward are: 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. treate 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 4 mailto: aboeina.com From: Boeing Employee Sent: 20 February 2017 01:18 To: @boeing.com> - 777 ECL COC update request HIL 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

Oboeing.com

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



- 777 ECL COC update request

Subject:

Hello [
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 TT 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 cultur	e saying, so I am willing to be the a-hole here and highlight this and call the Senior Leadership out for re.		
	oplier side, someone made our bed so we just got to make the best of it and make sure we don't let the en again else, why waste our time doing an AAR.		
I want to sit down unacceptable.	with you on Monday and discuss it and then I will let the team know that this type of behavior is		
A second bearings	ng Employee		
	ne 01, 2018 9:20 AM		
To: Subject: RE: M	@boeing.com> AX Simulator Program		
	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 at for		
that's what Lead quality. We man now referred to i	ele are voting yes everyone has it in their head meeting schedule is most important because lership pressures and messages. All the messages are about meeting schedule, not delivering agers were told names were being taken by senior leadership at the level D Go/NoGo meeting, internally as the Go/Go meeting. Sometimes there are understandable reasons why we have		

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:	@boeing.com>
Subject: RE: MAX Simulator Program	Economical Control
	who has said we had to proceed? Who from leadership had said we had to e device? On the Miami one, I understand (don't agree) why they decided to appen?
I look at who agreed to proceed to level C w Leadership yes they voted yes. You and this to say yes?	th EASA on the list and I see a whole slew of people that are not (quote) said no, but et.c. etc. said yes. So who drove
we have the luxury of going back and doing o	address the root problem, but the supplier selection is done. It isn't something over. The Quality of Boeing data packages, okay, how do we fix it? I am not ave yet to see someone tell me that we need more resources, etc. etc.
At this point, I am hearing your gripes, acknow	wledge they have validity, so let's address this.
	ny activity with Shanghai or Gatwick Max, so let me know how I should say no. I 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 "yes".	o" but you need to help me address what happens after so that we can get to
From: Boeing Employee	
Sent: Thursday, May 31, 2018 11:13 PM	
To:	@boeing.com>
Subject: FW: MAX Simulator Program	

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

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

From: Sent: Thursday, May 31, 2018 9:45	PM
To:	@boeing.com>;
@boeing.com>	
Cc:	@boeing.com>
Subject: MAX Simulator Program	

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

Consider the following, in the last 30 days:

- 1) Miami FAA Level D qualification was scheduled for March it was achieved in late May.
 - a) Between these dates 100-150 DRs alone were closed.
 - 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.
 - 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
 - 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

- 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".
- 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?
- The Industry will now know that Boeing failed to qualify one of its own devices with its own product to Level D standard – given the anti-binary sentiment in the industry, how will the impact of this be perceived particularly given the failure is not Binary related?
- m) Level C qualification with the number of outstanding issues is not guaranteed

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

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

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

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