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

oops, I meant NG PMP (Program Mgr)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

misfit scale.

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

These things cannot be underesitmated

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

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

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

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

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| computer system. |
|--|
| From: Qboeing.com] Sent: Tuesday, April 24, 2018 10:18 AM To: Subject: Updated QTG Importance: High |
| Hi |
| Could you ensure that the Singapore QTG is updated before Friday with all affected closure letters/SDSR responses - I have grave concerns as to whether the campus will submit it at this point in time. |
| Thanks, |
| |
| Training & Professional Services Global Services |
| Tel Fax Deboeing.com <mailto: deboeing.com="" deboeing.com<="" td=""></mailto:> |
| |
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Company Registration Number: 3802219

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

| V | 0 - | they | were | in | Hol | land |
|---|-----|------|------|----|-----|------|
|---|-----|------|------|----|-----|------|

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

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

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

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



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

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

| From: Boeing Employee | | |
|--|--|--|
| To: | Boeing Employee | |
| Sent: | 6/1/2018 9:24:56 AM | |
| Subject: | RE: MAX Simulator Program | |
| | | |
| | | |
| | | |
| | | |
| į | | |
| | | |
| | aying, so I am willing to be the a-hole here and highlight this and call the Senior Leadership out for | |
| creating this culture. | | |
| | | |
| | lier side, someone made our bed so we just got to make the best of it and make sure we don't let the | |
| same things happen | again else, why waste our time doing an AAR. | |
| | | |
| | rith you on Monday and discuss it and then I will let the team know that this type of behavior is | |
| unacceptable. | | |
| | | |
| <u></u> j | | |
| | | |
| | | |
| From: Boeing | Employee | |
| Sent: Friday, June | e 01, 2018 9:20 AM | |
| To: | @boeing.com> | |
| · | X Simulator Program | |
| Subject. NE. MA | Compliant Frogram | |
| | | |
| A contract of the contract of | de la faction de | |
| | there's significant risk that the LGW MAX device will not be granted an iLC extension and will | |
| | on by regulatory decision, not ours. Not being granted an extension on that device would have | |
| significant impact | for | |
| | | |
| As for why poople are voting yes. A everyone has it in their head mosting schedule is most important because | | |

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

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

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

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

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

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

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

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

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

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

Consider the following, in the last 30 days:

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

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

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

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

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

| Regards, |
|--|
| |
| |
| Training & Professional Services |
| Global Services |
| Tel { |
| Fax |
| Email @boeing.com |
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| Company Registration Number: 3802219 |