

B744 Technical Information No. OFS-2/001/2016.

Subject : New TLM and method of calculation

To all B744 Pilots,

Recently we found by accident that the TLM that have been produced by Performance Dept of Operation Support were based on 5 minutes Take-off thrust calculation method, whereas B744 Garuda had been authorised to have a 10 minutes Take-off thrust in One engine inoperative condition.

By referring to our AOM Vol 2, 4.1.2-1 page 1, it has been stated as follows:

In order to simplify one engine inoperative climb-out procedure and to improve the obstacle limited take-off weights, Garuda has obtained RLD (Rijks Lucht Dienst/Dutch Aviation Authority) as well as FAA approval as reflected in the Boeing Airplane Flight Manual (AFM), to increase the Take-off thrust time limit to 10 minutes in that case.

In order to comply with that particular Take-off Performance Regulation, we have asked the respective Department to re-issue all TLM based on 10 minutes Take-off thrust.

Basically, all the previous TLM figures in this case were in a safe region as long as the Restricted Take-off Weight is concerned. We have run sampling using the soft ware that we have, for several times in order to clarify the 10 minutes calculation method against the 5 minutes, and apparently for Runway Length Limited TOW, the different will be negligible or none.

The following example will reflect this statement:

For Madinah Airport, runway 35, 0 wind condition, OAT 35°C, all packs ON

Old calculation RTOW was 352.7 Tons, whilst the New calculation RTOW is 379.9 Tons.

From the above fact we have a different of 27.2 Tons, so actually with full thrust Take-off on our previous Haj flights we were on a safe side (mostly we used Packs OFF Take-off at that time on phase 2 Med-Upg route).


The following attachments will clarify the above mentioned calculation method.

TLM issue 20 Oct 2015 calculated using 5 minutes Take-off thrust and issue 25 Jan 2016 using 10 minutes Take-off thrust.

We hope this Technical Information will clarify things out and give you all a better knowledge regarding the New TLM issues.

We thank you for your attention, and have a safe flight.

Best regard,



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