



## **NATIONAL TRANSPORTATION SAFETY BOARD**

Office of Aviation Safety  
Washington, D.C. 20594

March 9, 2017

### **Attachment 11 – Load Manifest Calculation Control Sheet**

# **OPERATIONAL FACTORS**

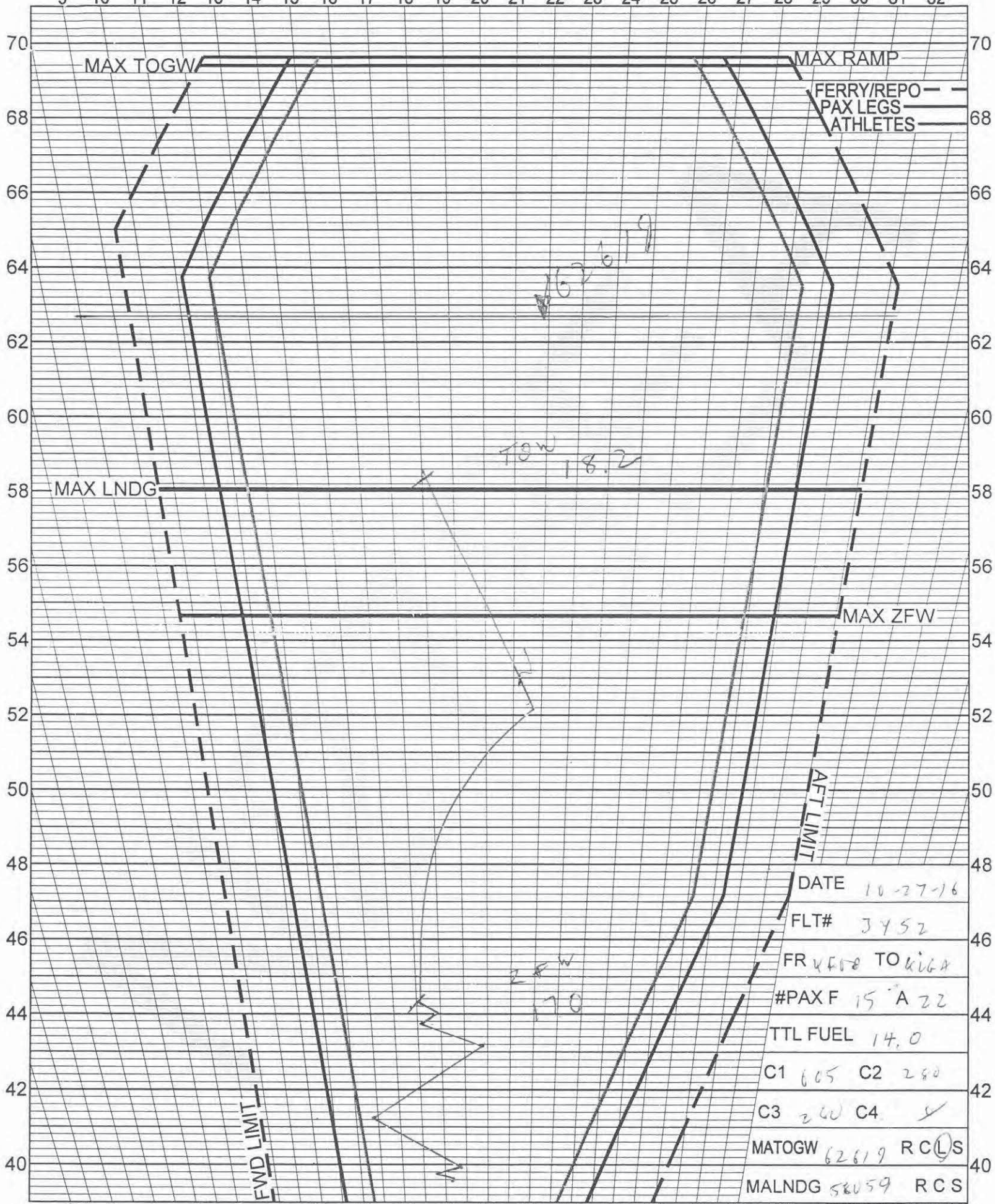
**DCA17IA020**

<b>1. Purpose and General Instructions</b>			
This sheet is used to document and calculate the flight weight information for use on the Load Manifest (EAL-F-FO-804). The Captain is responsible for calculating the data. The First Officer is responsible for cross checking the data.			
<b>2. Flight Information</b> <i>Captain enter information listed below</i>			
Flight Number: <u>3452</u> Date: <u>10/27/16</u> From: <u>FOD</u> To: <u>LGA</u> A/C: <u>N 278EA</u> BOW: <u>39612</u> %MAC: <u>18.43</u>			
<b>3. Flight Configuration</b> Marked appropriate Aircraft Seat Configuration: 174 <input type="checkbox"/> 154 <input type="checkbox"/> 145 <input type="checkbox"/> 78 <input type="checkbox"/> 64 <input checked="" type="checkbox"/>			
<input checked="" type="checkbox"/> <b>Revenue Configuration:</b> all crew and fully stocked Galleys of catering and supplies			
<input type="checkbox"/> <b>Ferry Configuration:</b> Ferry configuration has only flight crew on board and minimal supplies			
<input type="checkbox"/> <b>Reposition Configuration:</b> No passengers, flight and cabin crew and fully stocked galleys and supplies			
TEMP: <u>16</u> QNH: <u>3012</u> WIND: <u>160/8</u> RWY CONDITION: <u>Dry</u>			
<b>4. Weight Calculations</b> Calculate the following values and use as a starting point (BOW) and as a comparison to the Load Manifest Nomograph calculations (control for accuracy)			
Item	Category	Weight (KG) KG = LBS X 2.205	Weight Correction To ZFW or BOW
1	Basic Operating Weight BOW + ACM # <u>3</u> <u>294</u> Kgs.	<u>39911</u>	
2	Cargo Weight	<u>605</u>	<u>-/+</u>
3	Baggage Weight	<u>560</u>	<u>-/+</u>
4	Passenger Weight Zone A (Fwd) # pax <u>15</u>	<u>1290</u>	<u>-/+</u>
5	Passenger Weight Zone B (Middle) # pax <u>0</u>	<u>0</u>	<u>-/+</u>
6	Passenger Weight Zone C (Aft) # pax <u>22</u>	<u>1892</u>	<u>-/+</u>
7	<b>Zero Fuel Weight (ZFW)</b> (total 1 thru 6) CG (from Nomograph) <u>170</u>	<u>44258</u>	
8	Fuel On Board	<u>14000</u>	<u>-/+</u>
9	<b>Taxi Weight</b> (Item 7 plus item 8)	<u>58258</u>	
10	Taxi Fuel (Subtract item 10 from item 9)	<u>- 227</u>	
11	<b>MATOGW</b> <u>62619</u> <b>R C L S</b> Check and enter T/O Weights against Rwy (R) Climb (C) Landing (L) Structural (S)-	<u>58031</u>	
12	Estimated Fuel Burn from Jeppesen Flight Plan	<u>- 4560</u>	
13	<b>LDG. Weight</b> RWY Analysis <u>58059</u> Kgs. Limit <b>R C S</b> Check Ldg Weights against Rwy © Climb Limit © Structural (S) – Circle limiting	<u>53471</u>	
<b>5. Alternate Landing Weights</b> Used to cross check data for flight to landing alternate			
Item	Category	Weight (KGS) KG = LBS X 2.205	
14	Estimated Fuel Burn to Alternate from Jeppesen Flight Plan	<u>- 858</u>	
15	<b>Estimated Land Weight at Alternate</b> (item 14 less item 13) <b>R C S</b> Check Ldg Weights against Rwy © Climb Limit © Structural (S) – Circle limiting factor	<u>52613</u>	
<b>6. Maximum Takeoff Weight From Jeppesen Runway Analysis and Load Manifest Nomograph (when complete)</b>			
Jeppesen Runway Analysis <u>65914</u> Kgs. <b>R C S</b> Runway <u>24</u> Load Manifest Nomograph <u>62619</u> Circle the T/O Weights Limit for Rwy (R) Climb (C) Structural (S)			
<b>7. Captain Name, Signature and Date</b> <i>Captain sign both copies of this sheet when complete</i>			
Name: <u>[Redacted]</u>		Signature: <u>[Redacted]</u>	Date: <u>10/27/16</u>
<b>8. Administration</b>			
Complete in two copies. Leave one in Departure Agent Envelope and take one to destination in Trip Envelope. Ref: WBM Chapter 3.			



# EASTERN AIRLINES LOAD MANIFEST BG737-700 N278EA

9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32



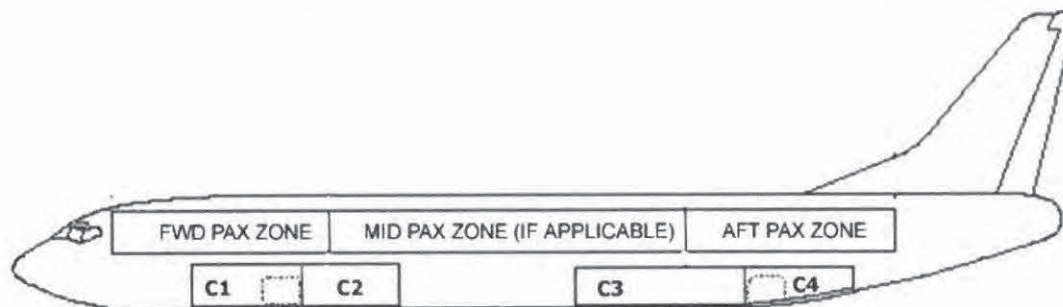




# Aircraft Load Sheet

Form	Rev. Date
EAL-F-FO-801	05/15/2016

Date: 10-27-16	Flight #: 3452	Tail #: N278BA	Gate:	Origin: KFD	Destination: KLLA
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LOADING INFORMATION							
	STD Bag Count	Heavy Bag Count	COMAT / CARGO / FlyAway Kit			Bin Loading Instructions	Inop Bin (Check if applies)
	Standard Bag Weight (bag # X 14 Kg) (30 lbs)	Heavy Bag Weight (bag # X 28 Kg) (60 lbs)	COMAT (count / weight) Kgs	Cargo (count / weight) Kgs	Fly Away Kit (Actual Weight) Kgs		
Forward Hold (C1)					605	Load C1 Bin %	<input type="checkbox"/>
Forward Hold (C2)	20 - 280					Load C2 Bin %	<input type="checkbox"/>
Aft Hold (C3)	20 - 280					Load C3 Bin %	<input type="checkbox"/>
Aft Hold (C4)						Load C4 Bin %	<input type="checkbox"/>
Planned							
Remarks:							

This Load has been screened and NO HAZMAT/DG was discovered

Lead Ramp Agent Signature: \_\_\_\_\_

Captain Signature: \_\_\_\_\_

Departure Agent Initiate 2 copies, then delivers to the Lead Ramp Agent. The Lead Ramp Agent completes and signs both copies.

Retain one copy at departure location; Captain carries one copy in trip folder to destination

**NOTE: Lead Ramp Agent must be authorized by Eastern Air Lines to sign loading information.**