



NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety
Washington, D.C. 20594

May 8, 2014

Attachment 7 – Weight and Balance

OPERATIONAL FACTORS

DCA14IA037

Southwest Airlines 700W-143 Loading Schedule

Revision Number: 0

Flight Number 4013		Agent Name (Print First and Last) [REDACTED]		Captain Name (Print 1st Initial and Last) Ronald Horne					
Destination BKG		Agent Employee Number [REDACTED]		<h1>Ground Ops COPY</h1>					
Station MDW		Sch. Arrival 16:05	Sch. Departure 15:45						
Aircraft Registration / Nose Number N272WN / N272		Fuel In 10.1							
Date 1/12/2014		Gallons Added x Density = Pounds Added 1175 6.76 7943							
1st OBS Daniel Menius	Dest. DAL SA	2nd OBS	Dest.			Cabin Jumpseat 1 [REDACTED]	Dest. DAL SA	Cabin Jumpseat 2	Dest.
TTL Pax 124		Zone 1 124	Zone 2 24200	FWD		AFT			
				STD Bags 62	HVY Bags 0	A/F/C Weight 0	STD Bags 54	HVY Bags 0	A/F/C Weight 0

OPERATIONAL EMPTY WEIGHT	
OEW	85762
1st Observer	201
2nd Observer	0
Cabin Jumpseat 1	199
Cabin Jumpseat 2	0
	86162

7
0
0

2 Child Weights

AIRPLANE WEIGHT AND BALANCE LIMITS	
	WEIGHT
Total PAX Weight	24200
Total FWD Hold Weight	1905
Total AFT Hold Weight	1596
Operational Weight	86162
Zero Fuel Wt	113863
ADJUSTMENTS	
Revised ZFW	
ADJUSTMENTS	
Revised ZFW	
ADJUSTMENTS	
Revised ZFW	-200
ADJUSTMENTS	
Revised ZFW	113663
ADJUSTMENTS	
Revised ZFW	
ADJUSTMENTS	
Revised ZFW	
Fuel Weight	16992
Wing	
Center	1001
Takeoff Wt	131656
ADJUSTMENTS	
Revised TOW	
MAX ATOG	134400 [ⓔ]

PLANNED FUEL	
Minimum	18.1
Maximum	18.1
Fuel Out	18.1 - 0.4 = 17.7 (Taxi)

GUIDELINES

- Use the adjusted Operating Empty Weight as designated on the Dispatch Release.
- Ensure Zero Fuel Weight and Balance and Takeoff Weight and Balance index unit limits have been confirmed.
- Ensure that the MZFW and MAX ATOG have not been exceeded.
- Loading Rule - Ensure that at least one half of the passenger complement is seated AFT of the overwing exits to utilize the balance limits shown.

NOTE:
Use the exact adjusted weight for each item as shown in the Tables. (Do Not Interpolate)

Fill Wing Tanks (Mains) Then Center Section Tank.
The OPC will calculate the recommended stabilizer trim setting to use for takeoff. This value should not be compared to the index unit balance limits.

INDEX UNIT BALANCE LIMITS		
ZERO FUEL WEIGHT AND BALANCE [ⓔ]		
Normal	Loading Rule [ⓔ]	
112000 - 113699	49 to 75	49 to 81

MZFW	120500 [ⓔ]
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TAKEOFF WEIGHT AND BALANCE [ⓔ]		
Normal	Loading Rule [ⓔ]	
129300 - 131699	51 to 80	51 to 85

Rls. 4
N272WN
Fit: 4013
Ronald Horne

Does Loading Rule Apply?	No <input checked="" type="radio"/>	Yes <input type="radio"/>
Action Taken?	N/A <input checked="" type="radio"/>	Yes <input type="radio"/>