



National Transportation Safety Board

Office of Aviation Safety
Washington, D.C. 20594

Group Chairman's Factual Report

OPERATIONAL FACTORS

ATTACHMENT

**Recreation of Weight and Balance, Actual Weights
Independent of Operator Software Applications**

WPR19FA230

**2003 560XL; 560-5314; N91GY
Oroville, CA; 08-21-19**

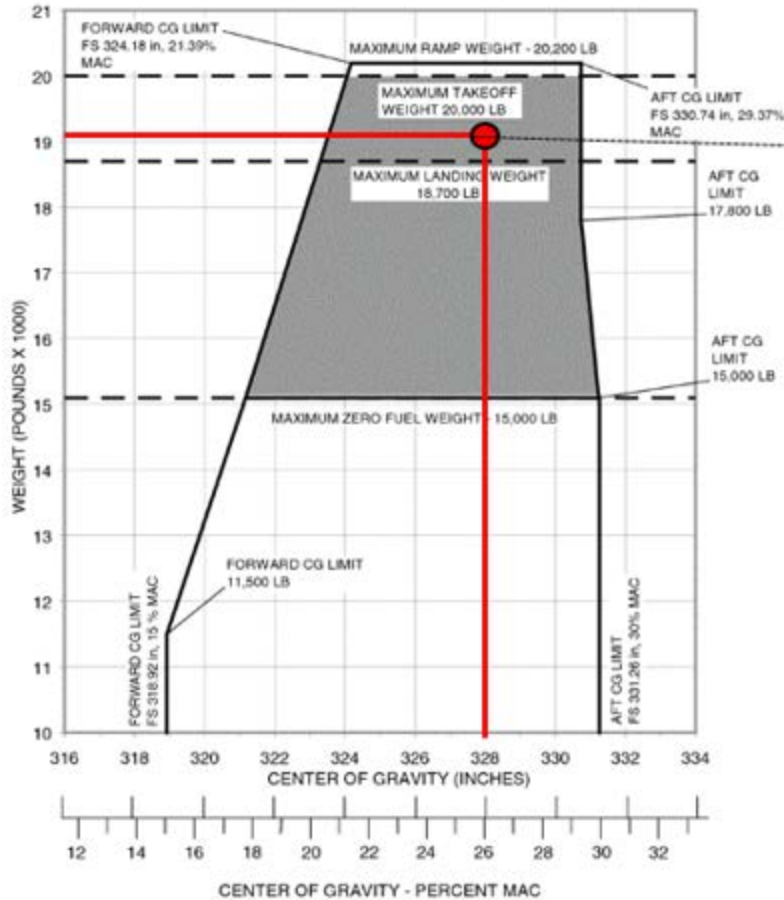
Accident Aircraft Weight and Balance Data			
	Weight	Arm	Mom
Empty Weight	12716	336.5416	4279463
Takeoff Fuel	3970		1373912
Left Seat Pilot	280	143.9	40292
Right Seat Pilot	229	143.9	32953
Seat 9 SFS	190	179.92	34185
Seat 10 SFS	184	203.9	37518
Seat 3	175	229.46	40156
Seat 4	200	229.46	45892
Seat 5	198	283.65	56163
Seat 6	180	283.65	51057
Seat 7	220	327.18	71980
Seat 8	148	327.18	48423
Chart case	20	158.1	3162
LH Ref ctr	45	173.2	7794
RHF closet		165.6	0
RHA mag rack		339.8	0
LHA storage		357.5	0
AFT closet	20	374	7480
Tailcone baggage	337	431	145247
Takeoff Weight	19112	328.36	6275675
		C/G	

Figure 1: Recreation of Weight and Balance, Actual Weights

Note: The flight crew weights were obtained from their FAA medical certificates. The passenger's carry-on baggage was added to their seats. The passengers reported 240 lbs. of luggage that was stowed in the baggage compartment, and the flight crew bags were estimated to weigh a total of 60 lbs. According to a DPJ weight and balance document, the accident airplane was equipped with 122 lbs. of aircraft items that were not accounted for in the basic empty weight. These items were distributed throughout the cabin and cargo in this calculation, as their exact location could not be determined due to the post-crash fire.

AIRPLANES WITH RUDDER BIAS

A77149



FORM NUMBER 2008A, 17 April 1999
REVISED 10 August 2009

Figure 6-17*. Example Center-of-Gravity Limits Envelope (U.S. Units) (Sheet 3)

Figure 2: Recreation of Weight and Balance, Actual Weights (Airplane Flight Manual Chart)