

ANC25MA018

OPERATIONAL FACTORS

Attachment 15

Accident Flight Exemplar Weight and Balance [G1000 Data]

November 24, 2025

-- ANC25MA018 --

Exemplar Weight and Balance

06 Feb 2025 / N321BA / Flt No. 445.1

Unalakleet - Nome

Item	Occupant Weight	Flight Manifest	
		Baggage/Freight Weight	Aircraft Weights
Row #1 -- Pilot	230		
Row #2 -- Pax #9 / Pax #6	340	48	
Row #3 -- Pax #1 / Pax #8	360	136	
Row #4 -- Pax #5 / Pax #2	485	157	
Row #5 -- Pax #4 / Pax #3	430	190	
Row #6 -- Pax #7	220		
Total Occupants / Baggage¹	2,065	531	
Freight (1)		75	
Freight (2)		103	
Total Baggage / Freight²		709	
Airplane Empty Weight ³			5,388
Occupants			2,065
Baggage / Freight			709
Fly Kit ⁴			80
TKS Fluid ⁵			92
Zero Fuel			8,334
Fuel ⁶			1,464
Gross Weight			9,798
Max Gross Takeoff Weight⁷			9,062
Under Gross / (Over Gross)			(736)
Max Gross Takeoff Weight (FIKI)⁸			8,807
Under Gross / (Over Gross)			(991)
CG Location (inches)			200.59"
CG Location (from aft limit)			-3.75" (fwd of aft CG limit)
CG Location (% MAC)			34.67%

Notes

Baggage / Freight / Fly Kit Loading Distribution⁹

Zone 4	182
Zone 5	74
Aft Shelf ⁴	20
Pod A	182
Pod B	182
Pod C	90
Pod D ⁴	60

¹ Occupant weights obtained from operator flight manifest.

² Baggage and freight weights obtained from operator flight manifest.

³ Airplane empty weight obtained from onboard weight and balance data.

⁴ Fly kit weight based on exemplar airplane.

⁵ Estimated based on PAOM departure with full tank and limited use en route to PAUN.

⁶ Fuel load based on data recovered from avionics.

⁷ Ref: STC SA01213SE

⁸ Ref: POH Supplement 1 (TKS System)

⁹ Loading distribution assumed. Exact loading distribution unknown due to cargo pod fragmentation on impact.

19-Nov-25

Flight Manifest **N321BA**

Flight **445.1**

Destination Nome **06 Feb 2025**

BERING AIR

Unalakleet -> Nome

Departs **14:40**

Pilot:

Co-pilot:

	Passenger Name	Onbrd	Offbrd	Gen	DOB	Passport	Country	Passport No	Comment	Pax/Frt wgt	Bag wgt	#	Bookno	Seat
1		UNK	OME							180	100	1		
2		UNK	OME							235	100	1		
3		UNK	OME							250	100	1		
4		UNK	OME							180	90	1		
5		UNK	OME							250	57	1		
6		UNK	OME							200	5	1		
7		UNK	OME							220				
8		UNK	OME							180	36	1		
9		UNK	OME							140	43	1		
										1835	531			
Freight (1)		UNK	OME	Excess Baggage						75				
Freight (1)		UNK	OME	Excess Baggage						103				
										178				
										2013	531			
										Total Wgt:		2544		

Flight Summary			445.1	N321BA				
Departures				Pax	Freight	Bags	Frt items	Wgt
UNK	Unalakleet	14:40		9	2	8	2	2544

Garmin G1000 Data Files – N321BA

Ref: log_250206_143556_PAUN

#yyy-mm-dd	hh:mm:ss	degrees	degrees	ft msl	kt	gals	gals
Lcl Date	Lcl Time	Latitude	Longitude	AltMSL	IAS	FQtyL	FQtyR
2/6/2025	14:37:40	63.8831	-160.7960	8.4	- 0 -	126.88	91.71

Total Fuel at Takeoff: 218.6 gal

Fuel Weight at Takeoff: 1,464.6 lbs.