

ANC25MA018

OPERATIONAL FACTORS

Attachment 17

Exemplar Weight and Balance February 6, 2025, Flight 830 OME - SMK

November 24, 2025

-- ANC25MA018 --

Exemplar Weight and Balance

-- 06Feb2025 / N321BA / BA # 830.1 / Nome-St. Michael --

Item	Flight Manifest		
	Occupant Weight	Baggage/Freight Weight	Aircraft Weights
Pilot	230		
Pax #1	150	62	
Pax #2	183		
Pax #3	185	32	
Pax #4	140	41	
Pax #5	200	92	
Pax #6	140	62	
Pax #7	163	49	
Pax #8	205	30	
Total Occupants / Baggage¹	1,596	368	
Freight (1)		427	
Freight (2)			
Total Baggage / Freight²		795	
Airplane Empty Weight ³			5,388
Occupants			1,596
Baggage / Freight			795
Fly Kit ⁴			80
TKS Fluid ⁵			106
Zero Fuel			7,965
Fuel ⁶			1,842
Gross Weight			9,807
Max Gross Takeoff Weight⁷			9,062
Under Gross / (Over Gross)			(745)
Max Gross Takeoff Weight (FIKI)⁸			8,807
Under Gross / (Over Gross)			(1,000)

Notes

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 Minimum req'd TKS fluid for dispatch into known icing conditions.

⁶ Fuel load based on data recovered from avionics.

⁷ Ref: STC SA01213SE

⁸ Ref: POH Supplement 1 (TKS System)

ORIGIN STATION MANIFEST

Capt: [REDACTED] AGENT:

STATION:

DATE: Feb 6 2025

LOAD AVAIL: ROUTE: OME, SMK, UNK

REGNO: N321BA

830

PASSENGER MANIFEST

CARGO/MAIL MANIFEST

Dep: 8:45 AM

OME

DEST: SMK

Arr: 9:28 AM

Bookno	Pax Name	Pax Wgt	Bag Wgt	Bookno	Piece	Wgt	Desc
1	[REDACTED]	150	62				
2	[REDACTED]	183					
3	[REDACTED]	185	32				
4	[REDACTED]	140	41				
5							
6							
7							
8							
9							

Passenger seats: 4

658

135

Cargo (lb):

Mail (lb):

Dep: 8:45 AM

OME

DEST: UNK

Arr: 10:00 AM

Bookno	Pax Name	Pax Wgt	Bag Wgt	Bookno	Piece	Wgt	Desc
1	[REDACTED]	200	92	[REDACTED]	6	83	[REDACTED]
2	[REDACTED]	140	62	[REDACTED]	1	11	[REDACTED]
3	[REDACTED]	163	49	[REDACTED]	2	97	[REDACTED]
4	[REDACTED]	205	30	[REDACTED]	1	14	[REDACTED]
5				[REDACTED]	8	132	[REDACTED]
6				[REDACTED]	1	1	[REDACTED]
7				[REDACTED]	1	6	[REDACTED]
8				[REDACTED]	1	1	[REDACTED]
9				[REDACTED]	3	38	[REDACTED]
10				[REDACTED]	1	30	[REDACTED]
11				[REDACTED]	1	5	[REDACTED]
12				[REDACTED]	1	9	[REDACTED]

Passenger seats: 4

708

233

Cargo (lb): 427

Mail (lb):

SMK - UNK

Total Pax:	8
Total Pax Wgt:	1366
Total Bag Wgt:	368
Total Cargo Wgt:	427
Total Mail Wgt:	
LOAD OB:	2161

Garmin G1000 Data Files – N321BA

Ref: log_250206_085554_PAOM

#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	08:58:25	64.5090	-165.4400	15.8	- 0 -	126.12	148.83

Total Fuel at Takeoff: 275.0 gal

Fuel Weight at Takeoff: 1,842.2 lbs.