

WEIGHT & BALANCE REPORT

Original as Weighed on: 29-Apr-09

Registration: C-GRYW
 Manufacturer: MD HELICOPTERS INC.
 Model: 500D
 Serial No: 190451D

Scales P/N: JP5000-3
 S/N: L1288D
 Weighed with: All oils full
 Unusable Fuel

Weighing points
 Fwd Jackpoint, L/H
 Fwd Jackpoint, R/H
 Aft Jackpoint

Scale	Tare	Net Weight	Arm	Moment
703.0	0.0	703.0	96.9	68120.7
685.0	0.0	685.0	96.9	66376.5
202.0	0.0	202.0	197.2	39834.4
		1590.0	109.6	174331.6

Empty Weight & C of G

Remove Unusable Fuel
 Remove Jacking Pegs
 Add Rear Steps

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight & C of G	1590.0	109.6	174331.6	-0.29	-460.8
Remove Unusable Fuel	-3.7	93.5	-345.95	0.00	0.00
Remove Jacking Pegs	-1.3	96.9	-126.0	0.0	0.0
Add Rear Steps	6.8	96.9	658.9	0.0	0.0
Adjusted New Empty Weight	1591.8	109.6	174518.6	-0.3	-460.8

Most Forward C of G

Empty Weight
 Pilot
 Passenger (Fwd)
 Passenger (Fwd)
 Critical Fuel

Empty Weight	1591.8	109.6	174518.6	-0.29	-460.8
Pilot	170.0	73.5	12495.0	-13.00	-2210.0
Passenger (Fwd)	170.0	71.5	12155.0	2.60	442.0
Passenger (Fwd)	170.0	73.5	12495.0	18.10	3077.0
Critical Fuel	40.0	90.6	3624.0	0.00	0.0
	2141.8	100.5	215287.6	0.40	848.2

Most Aft C of G

Empty Weight
 Pilot
 Passenger (Aft)
 Passenger (Aft)
 Baggage under Seat

Empty Weight	1591.8	109.6	174518.6	-0.29	-460.8
Pilot	170.0	73.5	12495.0	-13.00	-2210.0
Passenger (Aft)	170.0	105.0	17850.0	12.10	2057.0
Passenger (Aft)	170.0	105.0	17850.0	-12.10	-2057.0
Baggage under Seat	30.0	110.0	3300.0	0.00	0.0
	2131.8	106.0	226013.6	-1.25	-2670.8

The maintenance described above has been performed in accordance with airworthiness requirements. All configuration calculations have been reviewed for accuracy.

Signature & Licence #

AMO158-90

Original *Use This Sheet for Future Ammendments*

Date: 29-Apr-09

Registration: **C-GRYW**
 Manufacturer: Hughes
 Model: 500D
 Serial No: 190451D

Purpose: N/A Original

Empty Weight as per W & B:	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Original	1591.8	109.64	174518.6	-0.28	-448.0
	0.0	0.0	0.0	0.0	0.0
New Empty Weight	1591.8	109.6	174518.6	-0.28	-448.0

Most Forward C of G

Empty Weight	1591.8	109.6	174518.6	-0.28	-448.0
Pilot	170.0	73.5	12495.0	-13.00	-2210.0
Passenger (Fwd)	170.0	71.5	12155.0	2.60	442.0
Passenger (Fwd)	170.0	73.5	12495.0	18.10	3077.0
Critical Fuel	40.0	90.6	3624.0	0.00	0.0
	2141.8	100.5	215287.6	0.40	861.0

Most Aft C of G

Empty Weight	1591.8	109.6	174518.6	-0.28	-448.0
Pilot	170.0	73.5	12495.0	-13.00	-2210.0
Passenger (Aft)	170.0	105.0	17850.0	12.10	2057.0
Passenger (Aft)	170.0	105.0	17850.0	-12.10	-2057.0
Baggage under Seat	30.0	110.0	3300.0	0.00	0.0
	2131.8	106.0	226013.6	-1.25	-2658.0

The maintenance described above has been performed in accordance with airworthiness requirements. All configuration calculations have been reviewed for accuracy.

Signature & Licence #

AMO158-90

AIRCRAFT CONFIGURATIONS

WEIGHT & BALANCE CONFIGURATION NO. 1

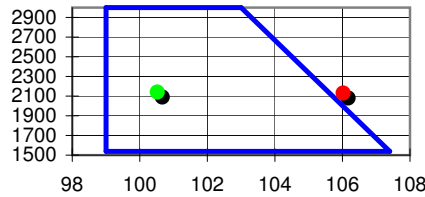
Purpose: To Establish a Basic Aircraft Configuration

Refer to the Equipment List

Selective Loading Required

Empty Weight as per W & B:	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Original	1591.8	109.6	174518.6	-0.28	-448.0
New Empty Weight	1591.8	109.6	174518.6	-0.28	-448.0
Most Forward C of G	2141.8	100.5	215287.6	0.40	861.00
Most Aft C of G	2131.8	106.0	226013.6	-1.25	-2658.0

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 2

Purpose: Addition of Inlet Diverter

Selective Loading Required

Empty Weight as per W & B:	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Original	1591.8	109.6	174518.6	-0.28	-448.0
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0
New Empty Weight	1593.8	109.6	174704.2	-0.28	-448.0
Most Forward C of G	2141.8	100.5	215473.2	0.40	861.00
Most Aft C of G	2133.8	106.0	226199.2	-1.25	-2658.0

LONGITUDINAL C of G

NIA to This A/C

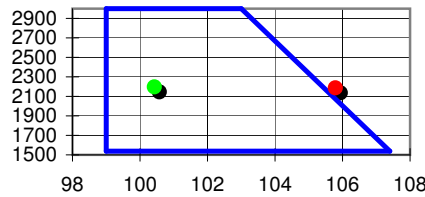
WEIGHT & BALANCE CONFIGURATION NO. 3

Purpose: Addition of Skyrotors Pods

Selective Loading Required

Empty Weight as per W & B:	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Original	1591.8	109.6	174518.6	-0.28	-448.00	
Add Sky Pods	56.0	96.9	5426.4	0.00	0.00	
New Empty Weight	1647.8	109.2	179945.0	-0.27	-448.0	
Most Forward C of G	●	2197.8	100.4	220714.0	0.39	861.00
Most Aft C of G	●	2187.8	105.8	231440.0	-1.21	-2658.0

LONGITUDINAL C of G



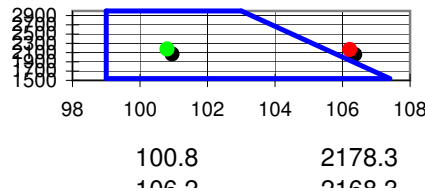
WEIGHT & BALANCE CONFIGURATION NO. 4

Purpose: Addition of Fargo Aux Tank (Only)

Selective Loading Required

Empty Weight as per W & B:	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Original	1591.8	109.6	174518.6	-0.28	-448.0	
Add Aux Tank	36.5	117.3	4282.9	0.00	0.0	
New Empty Weight	1628.3	109.8	178801.5	-0.28	-448.0	
Most Forward C of G	●	2178.3	100.8	219570.5	0.40	861.00
Most Aft C of G	●	2168.3	106.2	230296.5	-1.23	-2658.0

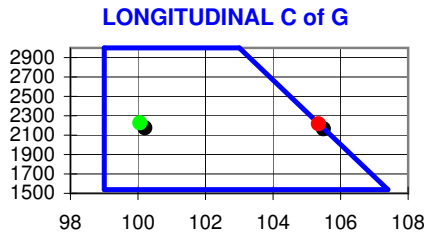
LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 5

Purpose: Addition of Viking Cargo Pod

Empty Weight as per W & B:	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Original	1591.8	109.6	174518.6	-0.28	-448.0	
Add Viking Pod	85.8	88.5	7593.3	0.00	0.0	
New Empty Weight	1677.6	108.6	182111.9	-0.27	-448.0	
Most Forward C of G	●	2227.6	100.1	222880.9	0.39	861.00
Most Aft C of G	●	2217.6	105.3	233606.9	-1.20	-2658.0

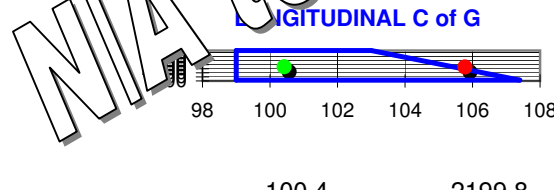


WEIGHT & BALANCE CONFIGURATION NO. 6

Purpose: Addition of Inlet Diverter & Sky Pods

Selective Loading Required

Empty Weight as per W & B:	Weight	Longitudinal		Lateral		
		Arm	Moment	Arm	Moment	
Original	1591.8	109.64	174518.6	-0.28	-448.0	
Add Inlet Diverter	2.0	97.8	185.6	0.00	0.0	
Add Sky Pods	56.0	86.6	5426.4	0.00	0.0	
New Empty Weight	1649.8	107.0	180130.6	-0.27	-448.0	
Most Forward C of G	●	22089.8	100.4	220899.6	0.39	861.00
Most Aft C of G	●	23162.6	105.8	231625.6	-1.21	-2658.0



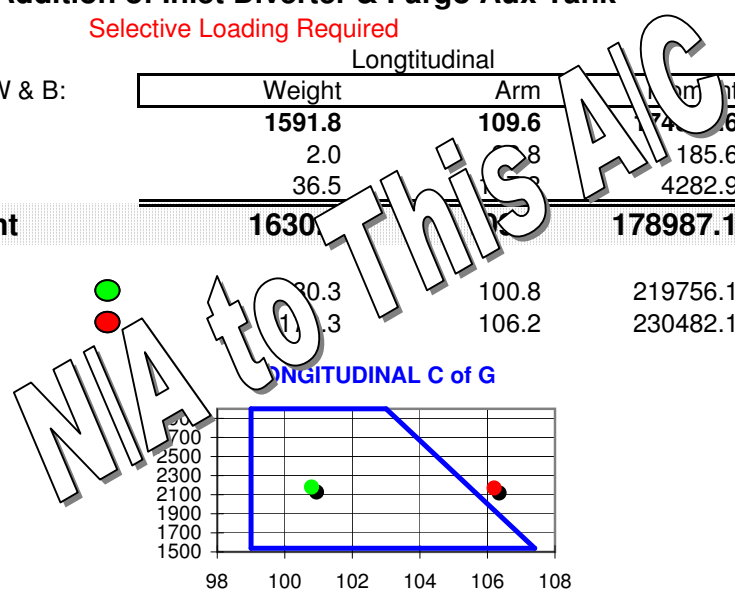
WEIGHT & BALANCE CONFIGURATION NO. 7

Purpose: Addition of Inlet Diverter & Fargo Aux Tank

Selective Loading Required

Empty Weight as per W & B:	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Original	1591.8	109.6	174396	-0.28	-448.0
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0
Add Fargo Aux Tank	36.5	116.7	4282.9	0.00	0.0
New Empty Weight	1630.3	119.1	178987.1	-0.27	-448.0

Most Forward C of G	●	100.3	100.8	219756.1	0.39	861.00
Most Aft C of G	●	101.3	106.2	230482.1	-1.22	-2658.0

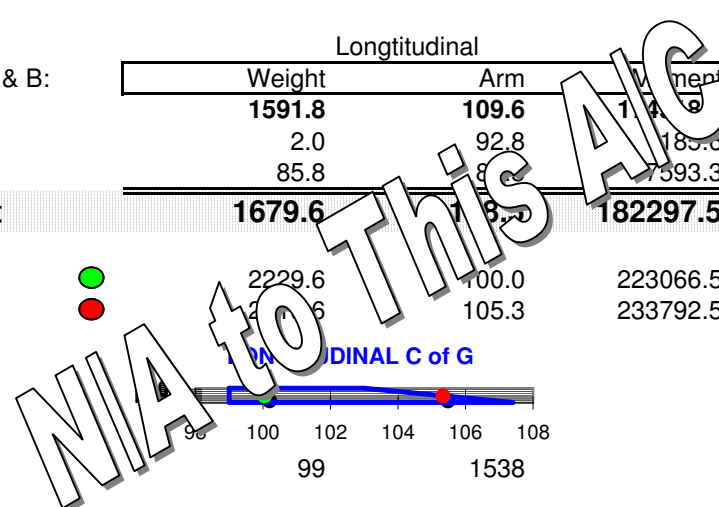


WEIGHT & BALANCE CONFIGURATION NO. 8

Purpose: Addition of Inlet Diverter & Viking Cargo Pod

Empty Weight as per W & B:	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Original	1591.8	109.6	174396	-0.28	-448.0
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0
Add Viking Cargo Pod	85.8	116.7	9993.3	0.00	0.0
New Empty Weight	1679.6	119.1	182297.5	-0.27	-448.0

Most Forward C of G	●	100.3	100.0	223066.5	0.39	861.00
Most Aft C of G	●	101.3	105.3	233792.5	-1.20	-2658.0

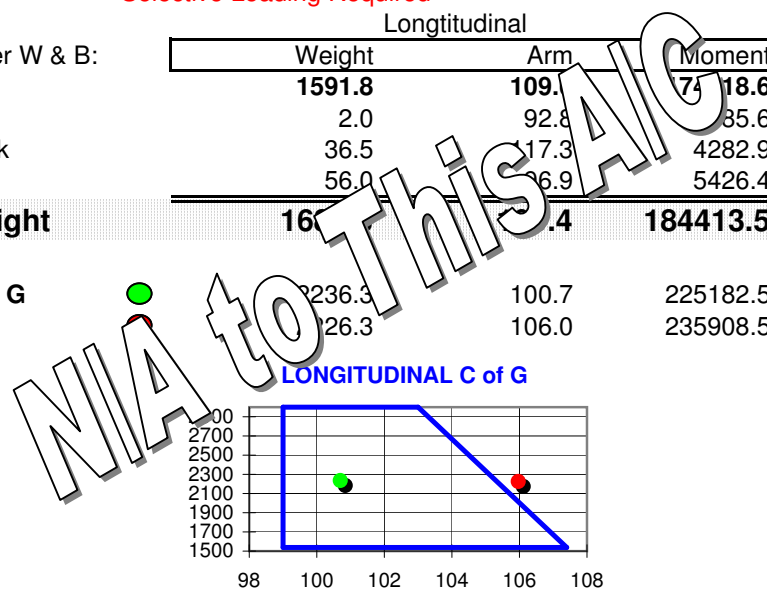


WEIGHT & BALANCE CONFIGURATION NO. 9

Purpose: Addition of Inlet Diverter, Fargo Aux Tank & Sky Pods
Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Original	1591.8	109.6	17418.6	-0.28	-448.0
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0
Add Fargo Aux Tank	36.5	117.3	4282.9	0.00	0.0
Add Sky Pods	56.0	106.9	5426.4	0.00	0.0
New Empty Weight	1645.8	116.4	184413.5	-0.27	-448.0

Most Forward C of G	100.3	100.7	225182.5	0.39	861.00
Most Aft C of G	107.4	106.0	235908.5	-1.19	-2658.0

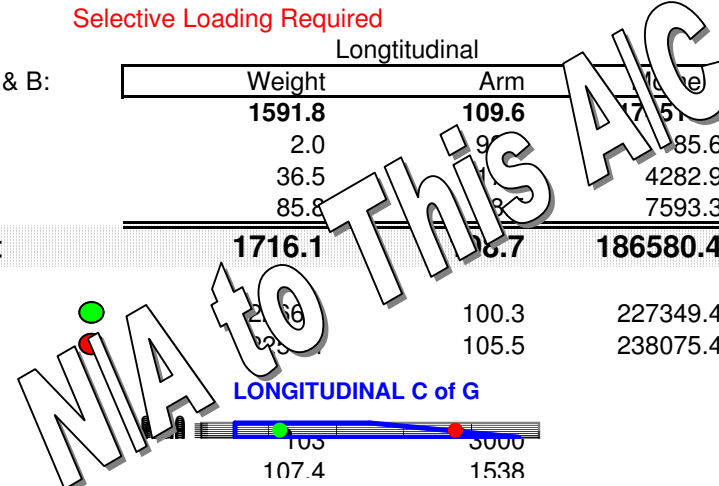


WEIGHT & BALANCE CONFIGURATION NO. 10

Purpose: Addition of Inlet Diverter, Fargo Tank & Viking Pod
Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Original	1591.8	109.6	17418.6	-0.28	-448.0
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.00
Add Fargo Aux Tank	36.5	117.3	4282.9	0.00	0.00
Add Viking Cargo Pod	85.8	90.3	7593.3	0.00	0.00
New Empty Weight	1716.1	106.7	186580.4	-0.26	-448.00

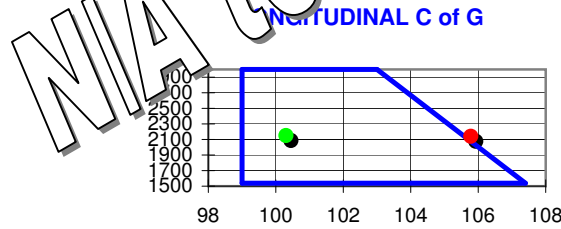
Most Forward C of G	100.3	100.3	227349.4	0.38	861.00
Most Aft C of G	107.4	105.5	238075.4	-1.18	-2658.0



WEIGHT & BALANCE CONFIGURATION NO. 11

Purpose: Addition of Dual Controls
Selective Loading Required

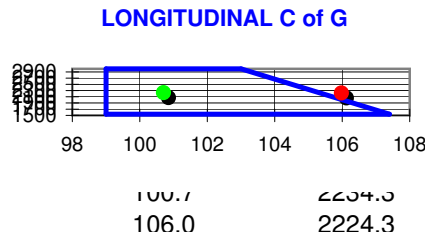
	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Original	1591.8	109.6	174518.6	-0.28	-448.0
Add Dual Controls	9.4		479.4	0.00	0.0
New Empty Weight	1601.2		174998.0	-0.28	-448.0
Most Forward C of G	101.2	100.3	215767.0	0.40	861.00
Most Aft C of G	104.2	105.8	226493.0	-1.24	-2658.0



WEIGHT & BALANCE CONFIGURATION NO. 12

Purpose: Addition of Fargo Aux Tank & Sky Pods
Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Original	1591.8	109.6	174518.6	-0.28	-448.0
Add Fargo Aux Tank	36.5	117.3	4282.9	0.00	0.0
Add Sky Pods	56.0	96.9	5426.4	0.00	0.0
New Empty Weight	1684.3	109.4	184227.9	-0.27	-448.0
Most Forward C of G	100.7	100.7	224996.9	0.39	861.00
Most Aft C of G	106.0	106.0	235722.9	-1.19	-2658.0



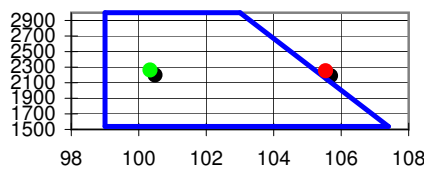
WEIGHT & BALANCE CONFIGURATION NO. 13

Purpose: Addition of Fargo Aux Tank & Viking Cargo Pod

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Original	1591.8	109.6	174518.6	-0.28	-448.00
Add Fargo Aux Tank	36.5	117.3	4282.9	0.00	0.00
Add Viking Cargo Pod	85.8	88.5	7593.3	0.00	0.00
New Empty Weight	1714.1	108.7	186394.8	-0.26	-448.00
Most Forward C of G	2264.1	100.3	227163.8	0.38	861.00
Most Aft C of G	2254.1	105.5	237889.8	-1.18	-2658.0

LONGITUDINAL C of G



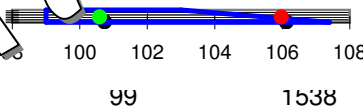
WEIGHT & BALANCE CONFIGURATION NO. 14

Purpose: Addition of Dual Controls & Fargo Aux Tank

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Original	1591.8	109.6	174518.6	-0.28	-448.0
Add Dual Controls	9.4	51.0	479.4	0.00	0.0
Add Fargo Aux Tank	36.5	117.3	4282.9	0.00	0.0
New Empty Weight	1637.7	99.9	179280.9	-0.27	-448.0
Most Forward C of G	2187.7	100.6	220049.9	0.39	861.00
Most Aft C of G	2177.7	106.0	230775.9	-1.22	-2658.0

LONGITUDINAL C of G



NIA to This A/C

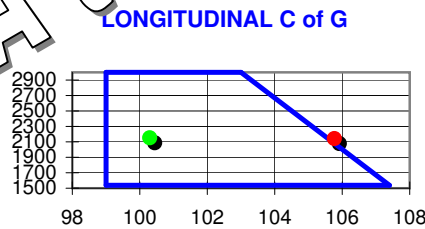
WEIGHT & BALANCE CONFIGURATION NO. 15

Purpose: Addition of Dual Controls & Inlet Diverter

Selective Loading Required

Empty Weight as per W & B:	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Original	1591.8	109.6	174518.6	-0.28	-448.0
Add Dual Controls	9.4	51.0	479.4	0.00	0.0
Add Inlet Diverter	2.4	73.8	185.6	0.00	0.0
New Empty Weight	1603.6	109.3	175183.6	-0.28	-448.0
Most Forward C of G	213.2	100.3	215952.6	0.40	861.00
Most Aft C of G	213.2	105.8	226678.6	-1.24	-2658.0

NIA to This AIG



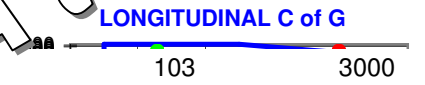
WEIGHT & BALANCE CONFIGURATION NO. 16

Purpose: Addition of Dual Controls, Fargo Tank & Inlet Diverter

Selective Loading Required

Empty Weight as per W & B:	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Original	1591.8	109.6	174518.6	-0.28	-448.0
Add Dual Controls	9.4	51.0	479.4	0.00	0.0
Add Fargo Aux Tank	36.5	117.3	4282.9	0.00	0.0
Add Inlet Diverter	2.4	73.8	185.6	0.00	0.0
New Empty Weight	1639.9	109.5	179466.5	-0.27	-448.0
Most Forward C of G	189.7	100.6	220235.5	0.39	861.00
Most Aft C of G	179.7	106.0	230961.5	-1.22	-2658.0

NIA to This AIG



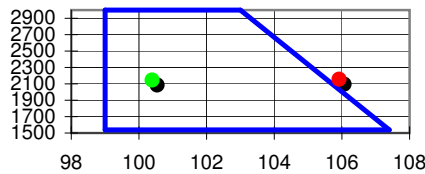
WEIGHT & BALANCE CONFIGURATION NO. 17

Selective Loading Required

Purpose: Add Kodiak Nav System

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Original	1591.8	109.6	174518.6	-0.28	-448.0	
Add Kodiak System	5.5	50.5	278.0	-13.64	-75.0	
New Empty Weight	1597.3	109.4	174796.6	-0.33	-523.0	
Most Forward C of G	●	2147.3	100.4	215565.6	0.37	786.00
Most Aft C of G	●	2157.3	105.9	228491.6	-1.27	-2733.0

LONGITUDINAL C of G



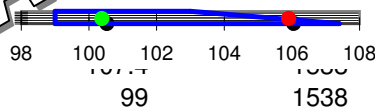
WEIGHT & BALANCE CONFIGURATION NO. 18

Selective Loading Required

Purpose: Add Kodiak Nav System and Inlet Diverter

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Original	1591.8	109.6	174518.6	-0.28	-448.0	
Add Kodiak System	5.5	50.5	278.0	-13.64	-75.0	
Add Inlet Diverter	2.0	99.8	185.6	0.00	0.0	
New Empty Weight	1599.3	109.4	174982.2	-0.33	-523.0	
Most Forward C of G	●	2147.3	100.4	215751.2	0.37	786.00
Most Aft C of G	●	2157.3	105.9	228677.2	-1.27	-2733.0

LONGITUDINAL C of G



NIA to This AIC

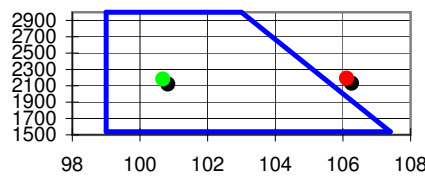
WEIGHT & BALANCE CONFIGURATION NO. 19

Selective Loading Required

Purpose: Add Kodiak Nav System and Fargo Aux Tank

Empty Weight as per W & B:	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Original	1591.8	109.6	174518.6	-0.28	-448.0	
Add Kodiak System	5.5	50.5	278.0	-13.64	-75.0	
Add Aux Tank	36.5	117.3	4282.9	0.00	0.0	
New Empty Weight	1633.8	109.6	179079.5	-0.32	-523.0	
Most Forward C of G	●	2183.8	100.7	219848.5	0.36	786.00
Most Aft C of G	●	2193.8	106.1	232774.5	-1.25	-2733.0

LONGITUDINAL C of G



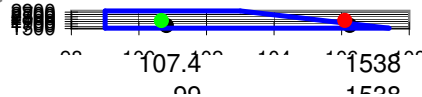
WEIGHT & BALANCE CONFIGURATION NO. 20

Selective Loading Required

Purpose: Add Kodiak Nav System, Inlet Diverter and Fargo Aux Tank

Empty Weight as per W & B:	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Original	1591.8	109.6	174518.6	-0.28	-448.0	
Add Kodiak System	5.5	50.5	278.0	-13.64	-75.0	
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0	
Add Aux Tank	36.5	117.3	4282.9	0.00	0.0	
New Empty Weight	1633.8	109.6	179265.1	-0.32	-523.0	
Most Forward C of G	●	85.8	100.7	220034.1	0.36	786.00
Most Aft C of G	●	2195.8	106.1	232960.1	-1.24	-2733.0

LONGITUDINAL C of G



NIA to This AIG

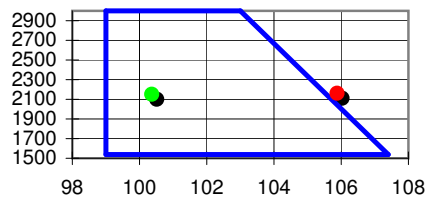
WEIGHT & BALANCE CONFIGURATION NO. 21

Selective Loading Required

Purpose: Add METS System, and Kodiak Nav System

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Original	1591.8	109.6	174518.6	-0.28	-448.0
Add Kodiak System	5.5	50.5	278.0	-13.64	-75.0
Add METS bellyband	3.0	84.5	253.5	0.00	0.0
Add METS Y-Attachment	2.0	95.0	190.0	0.00	0.0
New Empty Weight	1602.3	109.4	175240.1	-0.33	-523.0
Most Forward C of G	● 2152.3	100.4	216009.1	0.37	786.00
Most Aft C of G	● 2162.3	105.9	228935.1	-1.26	-2733.0

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 22

Selective Loading Required

Purpose: Add METS System, Inlet diverter and Kodiak Nav System

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Original	1591.8	109.6	174518.6	-0.28	-448.0
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0
Add Kodiak System	5.5	50.5	278.0	-13.64	-75.0
Add METS bellyband	3.0	84.5	253.5	0.00	0.0
Add METS Y-Attachment	2.0	95.0	190.0	0.00	0.0
New Empty Weight	1604.3	109.3	175425.7	-0.33	-523.0
Most Forward C of G	● 2152.3	100.4	216194.7	0.36	786.00
Most Aft C of G	● 2162.3	105.9	229120.7	-1.26	-2733.0

NIA to This A/C

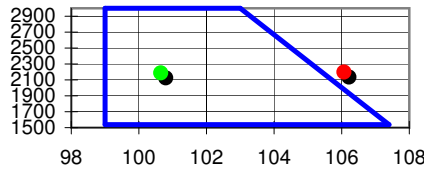
WEIGHT & BALANCE CONFIGURATION NO. 23

Selective Loading Required

Purpose: Add Fargo Aux Tank, METS System, and Kodiak Nav System

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Original	1591.8	109.6	174518.6	-0.28	-448.0
Add Fargo Aux Tank	36.5	117.3	4282.9	0.00	0.0
Add Kodiak System	5.5	50.5	278.0	-13.64	-75.0
Add METS bellyband	3.0	84.5	253.5	0.00	0.0
Add METS Y-Attachment	2.0	95.0	190.0	0.00	0.0
New Empty Weight	1638.8	109.5	179523.0	-0.32	-523.0
Most Forward C of G	2188.8	100.6	220292.0	0.36	786.00
Most Aft C of G	2198.8	106.1	233218.0	-1.24	-2733.0

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 24

Selective Loading Required

Purpose: Add Fargo Aux Tank, Inlet Diverter, METS System, and Kodiak Nav System

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Original	1591.8	109.6	174518.6	-0.28	-448.0
Add Inlet Diverter	2.0	92.9	185.6	0.00	0.0
Add Fargo Aux Tank	36.5	117.3	4282.9	0.00	0.0
Add Kodiak System	5.5	50.5	278.0	-13.64	-75.0
Add METS bellyband	3.0	84.5	253.5	0.00	0.0
Add METS Y-Attachment	2.0	95.0	190.0	0.00	0.0
New Empty Weight	1638.8	109.5	179708.6	-0.32	-523.0
Most Forward C of G	2190.8	100.6	220477.6	0.36	786.00
Most Aft C of G	2200.8	106.1	233403.6	-1.24	-2733.0
	99	1538			