

WEIGHT & BALANCE REPORT

Original as Weighed on: 14-Feb-98

Registration: C-GTNM
 Manufacturer: MD HELICOPTERS INC.
 Model: 500D
 Serial No: 490485D

Scales P/N: 3-0057-BA-3C
 S/N: 1308-3C
 Weighed with: All oils full
 Zero Fuel

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

Scale	Tare	Net Weight	Arm	Moment
692.0	0.0	692.0	96.9	67054.8
714.0	0.0	714.0	96.9	69186.6
173.0	0.0	173.0	197.2	34115.6
		1579.0	107.9	170357.0

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight & C of G	1579.0	107.9	170357.0	0.36	563.2

Most Forward C of G

Empty Weight	1579.0	107.9	170357.0	0.36	563.2
Pilot	200.0	73.5	14700.0	-13.00	-2600.0
Passenger (Fwd)	200.0	71.5	14300.0	2.60	520.0
Passenger (Fwd)	200.0	73.5	14700.0	18.10	3620.0
Critical Fuel	40.0	90.6	3624.0	0.00	0.0
	2219.0	98.1	217681.0	0.95	2103.2

Most Aft C of G

Empty Weight	1579.0	107.9	170357.0	0.36	563.2
Pilot	200.0	73.5	14700.0	-13.00	-2600.0
Passenger (Aft)	200.0	105.0	21000.0	12.10	2420.0
Passenger (Aft)	200.0	105.0	21000.0	-12.10	-2420.0
Baggage under Seat	50.0	110.0	5500.0	0.00	0.0
	2229.0	104.3	232557.0	-0.91	-2036.8

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

Signature & Licence # _____

AMO158-90

Amendment # 8

Remove ELT	-4.2	38.5	-161.7	7.30	-30.7
Remove ELT Ant	-0.2	84.0	-16.8	-26.40	5.3
Inst Kannad 406 ELT	1.87	44.65	83.5	6.50	12.2
Inst Kannad 406 ELT Ant	0.38	82.50	30.9	-25.75	-9.7
New Empty Weight	1579.2	107.9	170458.3	0.36	568.0

Most Forward C of G

Empty Weight	1579.2	107.9	170458.3	0.36	568.0
Pilot	200.0	73.5	14700.0	-13.00	-2600.0
Passenger (Fwd)	200.0	71.5	14300.0	2.60	520.0
Passenger (Fwd)	200.0	73.5	14700.0	18.10	3620.0
Critical Fuel	40.0	90.6	3624.0	0.00	0.0
	2219.2	98.1	217782.3	0.95	2108.0

Most Aft C of G

Empty Weight	1579.2	107.9	170458.3	0.36	568.0
Pilot	200.0	73.5	14700.0	-13.00	-2600.0
Passenger (Aft)	200.0	105.0	21000.0	12.10	2420.0
Passenger (Aft)	200.0	105.0	21000.0	-12.10	-2420.0
Baggage under Seat	50.0	110.0	5500.0	0.00	0.0
	2229.2	104.4	232658.3	-0.91	-2032.0

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

Signature & Licence # _____

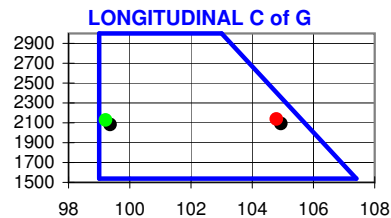
AMO158-90

AIRCRAFT CONFIGURATIONS

WEIGHT & BALANCE CONFIGURATION NO. 1

Purpose: To Establish a Basic Aircraft Configuration
Refer to the Equipment List

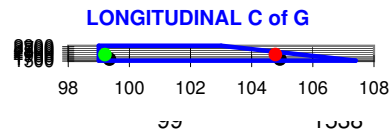
	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B: Amendment # 8	1579.2	107.9	170458.3	0.36	568.0
New Empty Weight	1579.2	107.9	170458.3	0.36	568.0
Most Forward C of G ●	2129.2	99.2	211227.3	0.88	1876.96
Most Aft C of G ●	2139.2	104.8	224153.3	-0.77	-1642.0



WEIGHT & BALANCE CONFIGURATION NO. 2

Purpose: Addition of Inlet Diverter

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B: Amendment # 8	1579.2	107.9	170458.3	0.36	568.0
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0
New Empty Weight	1581.2	107.9	170643.9	0.36	568.0
Most Forward C of G ●	2131.2	99.2	211412.9	0.88	1876.96
Most Aft C of G ●	2141.2	104.8	224338.9	-0.77	-1642.0



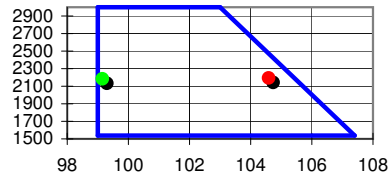
WEIGHT & BALANCE CONFIGURATION NO. 3

Purpose: Addition of Skyrotors Pods

Note: Selective Loading Required

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment # 8	1579.2	107.9	170458.3	0.36	567.96	
Add Sky Pods	56.0	96.9	5426.4	0.00	0.00	
New Empty Weight	1635.2	107.6	175884.7	0.35	568.0	
Most Forward C of G	●	2185.2	99.1	216653.7	0.86	1876.96
Most Aft C of G	●	2195.2	104.6	229579.7	-0.75	-1642.0

LONGITUDINAL C of G

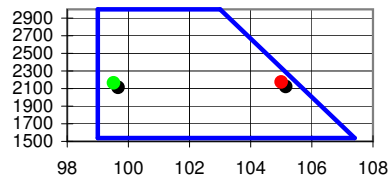


WEIGHT & BALANCE CONFIGURATION NO. 4

Purpose: Addition of Fargo Aux Tank (Only)

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment # 8	1579.2	107.9	170458.3	0.36	568.0	
Add Aux Tank	36.5	117.3	4282.9	0.00	0.0	
New Empty Weight	1615.7	108.2	174741.2	0.35	568.0	
Most Forward C of G	●	2165.7	99.5	215510.2	0.87	1876.96
Most Aft C of G	●	2175.7	105.0	228436.2	-0.75	-1642.0

LONGITUDINAL C of G



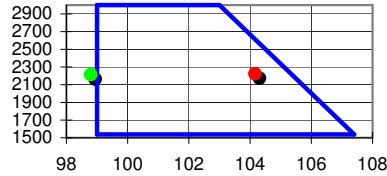
WEIGHT & BALANCE CONFIGURATION NO. 5

Purpose: Addition of Viking Cargo Pod

Note: Selective Loading Required

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment # 8	1579.2	107.9	170458.3	0.36	568.0	
Add Viking Pod	85.8	88.5	7593.3	0.00	0.0	
New Empty Weight	1665.0	106.9	178051.6	0.34	568.0	
Most Forward C of G	●	2215.0	98.8	218820.6	0.85	1876.96
Most Aft C of G	●	2225.0	104.2	231746.6	-0.74	-1642.0

LONGITUDINAL C of G



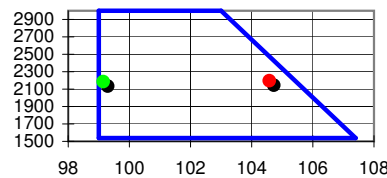
WEIGHT & BALANCE CONFIGURATION NO. 6

Purpose: Addition of Inlet Diverter & Sky Pods

Note: Selective Loading Required

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment # 8	1579.2	107.94	170458.3	0.36	568.0	
Add Inlet Diverter	2.0	92.80	185.6	0.00	0.0	
Add Sky Pods	56.0	96.90	5426.4	0.00	0.0	
New Empty Weight	1637.2	107.5	176070.3	0.35	568.0	
Most Forward C of G	●	2187.2	99.1	216839.3	0.86	1876.96
Most Aft C of G	●	2197.2	104.6	229765.3	-0.75	-1642.0

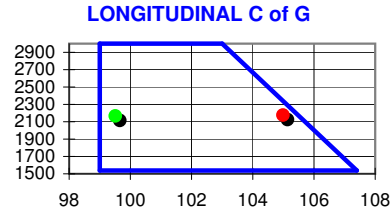
LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 7

Purpose: Addition of Inlet Diverter & Fargo Aux Tank

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment # 8	1579.2	107.9	170458.3	0.36	568.0	
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	
New Empty Weight	1617.7	108.1	174926.8	0.35	568.0	
Most Forward C of G	●	2167.7	99.5	215695.8	0.87	1876.96
Most Aft C of G	●	2177.7	105.0	228621.8	-0.75	-1642.0

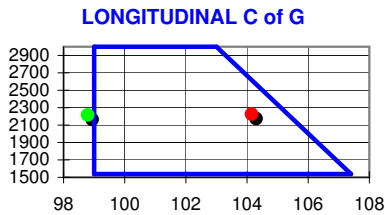


WEIGHT & BALANCE CONFIGURATION NO. 8

Purpose: Addition of Inlet Diverter & Viking Cargo Pod

Note: Selective Loading Required

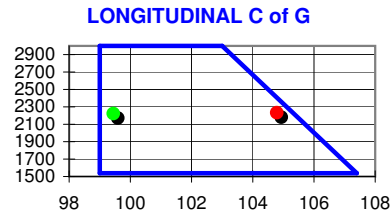
	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment # 8	1579.2	107.9	170458.3	0.36	568.0	
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0	
Add Viking Cargo Pod	85.8	88.5	7593.3	0.00	0.0	
New Empty Weight	1667.0	106.9	178237.2	0.34	568.0	
Most Forward C of G	●	2217.0	98.8	219006.2	0.85	1876.96
Most Aft C of G	●	2227.0	104.1	231932.2	-0.74	-1642.0



WEIGHT & BALANCE CONFIGURATION NO. 9

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

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment # 8	1579.2	107.9	170458.3	0.36	568.0
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	96.9	5426.4	0.00	0.0
New Empty Weight	1673.7	107.8	180353.2	0.34	568.0
Most Forward C of G	● 2223.7	99.4	221122.2	0.84	1876.96
Most Aft C of G	● 2233.7	104.8	234048.2	-0.74	-1642.0

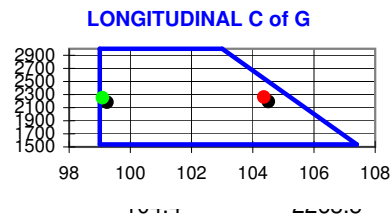


WEIGHT & BALANCE CONFIGURATION NO. 10

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

Note: Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment # 8	1579.2	107.9	170458.3	0.36	567.96
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	88.5	7593.3	0.00	0.00
New Empty Weight	1703.5	107.1	182520.1	0.33	567.96
Most Forward C of G	● 2253.5	99.1	223289.1	0.83	1876.96
Most Aft C of G	● 2263.5	104.4	236215.1	-0.73	-1642.0



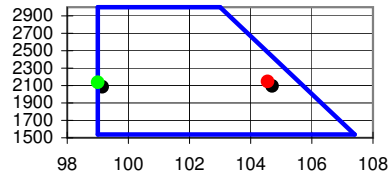
WEIGHT & BALANCE CONFIGURATION NO. 11

Purpose: Addition of Dual Controls

Note: Selective Loading Required

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment # 8	1579.2	107.9	170458.3	0.36	568.0	
Add Dual Controls	9.4	51.0	479.4	0.00	0.0	
New Empty Weight	1588.6	107.6	170937.7	0.36	568.0	
Most Forward C of G	●	2138.6	99.0	211706.7	0.88	1876.96
Most Aft C of G	●	2148.6	104.6	224632.7	-0.76	-1642.0

LONGITUDINAL C of G

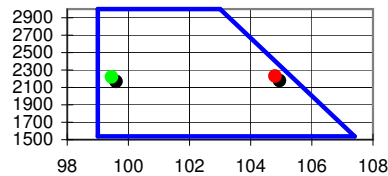


WEIGHT & BALANCE CONFIGURATION NO. 12

Purpose: Addition of Fargo Aux Tank & Sky Pods

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment # 8	1579.2	107.9	170458.3	0.36	568.0	
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	1671.7	107.8	180167.6	0.34	568.0	
Most Forward C of G	●	2221.7	99.4	220936.6	0.84	1876.96
Most Aft C of G	●	2231.7	104.8	233862.6	-0.74	-1642.0

LONGITUDINAL C of G



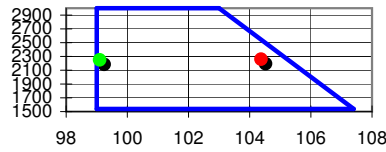
WEIGHT & BALANCE CONFIGURATION NO. 13

Purpose: Addition of Fargo Aux Tank & Viking Cargo Pod

Note: Selective Loading Required

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment # 8	1579.2	107.9	170458.3	0.36	567.96	
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	1701.5	107.2	182334.5	0.33	567.96	
Most Forward C of G	●	2251.5	99.1	223103.5	0.83	1876.96
Most Aft C of G	●	2261.5	104.4	236029.5	-0.73	-1642.0

LONGITUDINAL C of G

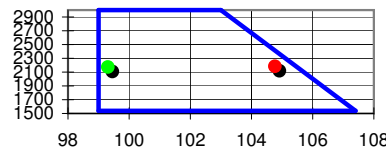


WEIGHT & BALANCE CONFIGURATION NO. 14

Purpose: Addition of Dual Controls & Fargo Aux Tank

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment # 8	1579.2	107.9	170458.3	0.36	568.0	
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	1625.1	107.8	175220.6	0.35	568.0	
Most Forward C of G	●	2175.1	99.3	215989.6	0.86	1876.96
Most Aft C of G	●	2185.1	104.8	228915.6	-0.75	-1642.0

LONGITUDINAL C of G



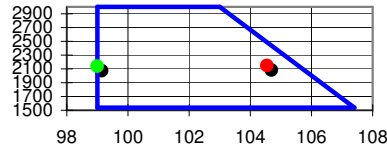
WEIGHT & BALANCE CONFIGURATION NO. 15

Purpose: Addition of Dual Controls & Inlet Diverter

Note: Selective Loading Required

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment # 8	1579.2	107.9	170458.3	0.36	568.0	
Add Dual Controls	9.4	51.0	479.4	0.00	0.0	
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0	
New Empty Weight	1590.6	107.6	171123.3	0.36	568.0	
Most Forward C of G	●	2140.6	99.0	211892.3	0.88	1876.96
Most Aft C of G	●	2150.6	104.5	224818.3	-0.76	-1642.0

LONGITUDINAL C of G



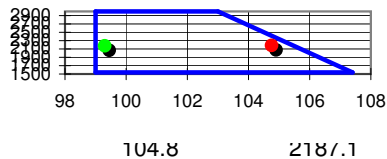
WEIGHT & BALANCE CONFIGURATION NO. 16

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

Note: Selective Loading Required

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment # 8	1579.2	107.9	170458.3	0.36	568.0	
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	2.0	92.8	185.6	0.00	0.0	
New Empty Weight	1627.1	107.8	175406.2	0.35	568.0	
Most Forward C of G	●	2177.1	99.3	216175.2	0.86	1876.96
Most Aft C of G	●	2187.1	104.8	229101.2	-0.75	-1642.0

LONGITUDINAL C of G



104.8 2187.1

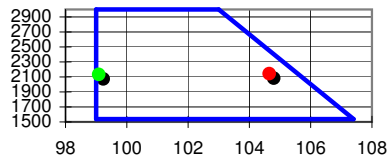
WEIGHT & BALANCE CONFIGURATION NO. 17

Selective Loading Required

Purpose: Add Kodiak Nav System

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment # 8	1579.2	107.9	170458.3	0.36	568.0	
Add Kodiak System	5.5	50.5	278.0	-13.64	-75.0	
New Empty Weight	1584.7	107.7	170736.3	0.31	493.0	
Most Forward C of G	●	2134.7	99.1	211505.3	0.84	1801.96
Most Aft C of G	●	2144.7	104.6	224431.3	-0.80	-1717.0

LONGITUDINAL C of G



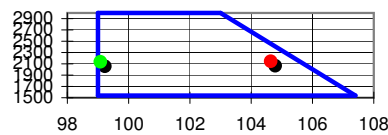
WEIGHT & BALANCE CONFIGURATION NO. 18

Selective Loading Required

Purpose: Add Kodiak Nav System and Inlet Diverter

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment # 8	1579.2	107.9	170458.3	0.36	568.0	
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	
New Empty Weight	1586.7	107.7	170921.9	0.31	493.0	
Most Forward C of G	●	2136.7	99.1	211690.9	0.84	1801.96
Most Aft C of G	●	2146.7	104.6	224616.9	-0.80	-1717.0

LONGITUDINAL C of G



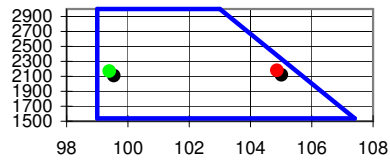
WEIGHT & BALANCE CONFIGURATION NO. 19

Selective Loading Required

Purpose: Add Kodiak Nav System and Fargo Aux Tank

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment # 8	1579.2	107.9	170458.3	0.36	568.0	
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	1621.2	108.0	175019.2	0.30	493.0	
Most Forward C of G	●	2171.2	99.4	215788.2	0.83	1801.96
Most Aft C of G	●	2181.2	104.9	228714.2	-0.79	-1717.0

LONGITUDINAL C of G



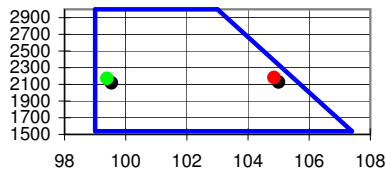
WEIGHT & BALANCE CONFIGURATION NO. 20

Selective Loading Required

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

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment # 8	1579.2	107.9	170458.3	0.36	568.0	
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	1623.2	107.9	175204.8	0.30	493.0	
Most Forward C of G	●	2173.2	99.4	215973.8	0.83	1801.96
Most Aft C of G	●	2183.2	104.8	228899.8	-0.79	-1717.0

LONGITUDINAL C of G



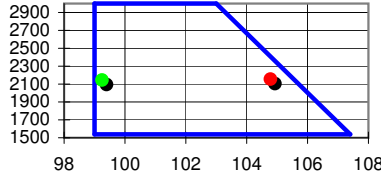
WEIGHT & BALANCE CONFIGURATION NO. 21

Selective Loading Required

Purpose: Add Dyna Nav System

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment # 8	1579.2	107.9	170458.3	0.36	568.0
Add Dynabyte	15.0	111.6	1674.0	0.00	0.0
Add DynaViz	2.0	46.8	93.6	-21.00	-42.0
New Empty Weight	1596.2	107.9	172225.9	0.33	526.0
Most Forward C of G ●	2146.2	99.2	212994.9	0.86	1834.96
Most Aft C of G ●	2156.2	104.8	225920.9	-0.78	-1684.0

LONGITUDINAL C of G



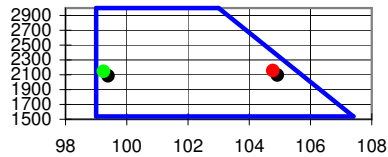
WEIGHT & BALANCE CONFIGURATION NO. 22

Selective Loading Required

Purpose: Add Dyna Nav System, and Inlet Diverter

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment # 8	1579.2	107.9	170458.3	0.36	568.0
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0
Add Dynabyte	15.0	111.6	1674.0	0.00	0.0
Add DynaViz	2.0	46.8	93.6	-21.00	-42.0
New Empty Weight	1598.2	107.9	172411.5	0.33	526.0
Most Forward C of G ●	2148.2	99.2	213180.5	0.85	1834.96
Most Aft C of G ●	2158.2	104.8	226106.5	-0.78	-1684.0

LONGITUDINAL C of G



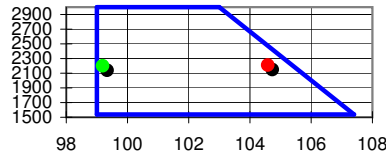
WEIGHT & BALANCE CONFIGURATION NO. 23

Selective Loading Required

Purpose: Add Dyna Nav System, and Sky Pods

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment # 8	1579.2	107.9	170458.3	0.36	568.0
Add Sky Pods	56.0	96.9	5426.4	0.00	0.0
Add Dynabyte	15.0	111.6	1674.0	0.00	0.0
Add DynaViz	2.0	46.8	93.6	-21.00	-42.0
New Empty Weight	1652.2	107.5	177652.3	0.32	526.0
Most Forward C of G ●	2202.2	99.2	218421.3	0.83	1834.96
Most Aft C of G ●	2212.2	104.6	231347.3	-0.76	-1684.0

LONGITUDINAL C of G



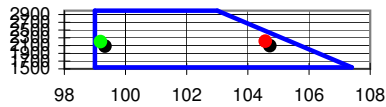
WEIGHT & BALANCE CONFIGURATION NO. 24

Selective Loading Required

Purpose: Add Sky Pods, Inlet Diverter, and Dyna Nav System

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment # 8	1579.2	107.9	170458.3	0.36	568.0
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0
Add Sky Pods	56.0	96.9	5426.4	0.00	0.0
Add Dynabyte	15.0	111.6	1674.0	0.00	0.0
Add DynaViz	2.0	46.8	93.6	-21.00	-42.0
New Empty Weight	1654.2	107.5	177837.9	0.32	526.0
Most Forward C of G ●	2204.2	99.2	218606.9	0.83	1834.96
Most Aft C of G ●	2214.2	104.6	231532.9	-0.76	-1684.0

LONGITUDINAL C of G



104.6 2214.2