

WEIGHT & BALANCE REPORT

Original as Weighed on: 2-Feb-02

Registration:	C-GMNU	Scales P/N: 3-0057-BA-3C
Manufacturer:	MD HELICOPTERS INC.	S/N: 1308-3C
Model:	500D	Weighed with: All oils full
Serial No:	380271D	Zero Fuel

Weighing points	Scale	Tare	Net Weight	Arm	Moment
Fwd Jackpoint, L/H	705.0	0.0	705.0	96.9	68314.5
Fwd Jackpoint, R/H	690.0	0.0	690.0	96.9	66861.0
Aft Jackpoint	189.0	0.0	189.0	197.2	37270.8
			1584.0	108.9	172446.3

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight & C of G	1584.0	108.9	172446.3	-0.24	-384.0

Most Forward C of G

Empty Weight	1584.0	108.9	172446.3	-0.24	-384.0
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
	2224.0	98.8	219770.3	0.52	1156.0

Most Aft C of G

Empty Weight	1584.0	108.9	172446.3	-0.24	-384.0
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
	2234.0	105.0	234646.3	-1.34	-2984.0

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

Signature & Licence # _____ AMO158-90

Amendment #3

Date: 2-Apr-09

Install KANNAD ELT Antenna	0.4	82.5	30.9	-25.75	-9.7
New Empty Weight	1584.2	109.3	173128.9	-0.25	-399.9

Most Forward C of G

Empty Weight	1584.2	109.3	173128.9	-0.25	-399.9
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
	2224.2	99.1	220452.9	0.51	1140.1

Most Aft C of G

Empty Weight	1584.2	109.3	173128.9	-0.25	-399.9
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
	2234.2	105.3	235328.9	-1.34	-2999.9

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

Signature & Licence # _____ AMO158-90

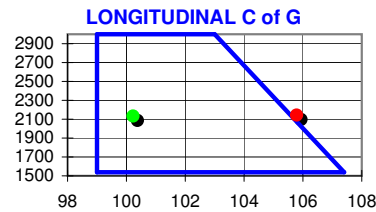
AIRCRAFT CONFIGURATIONS

WEIGHT & BALANCE CONFIGURATION NO. 1

Purpose: To Establish a Basic Aircraft Configuration

Selective loading in this configuration

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment #3	1584.2	109.3	173128.9	-0.25	-399.9
New Empty Weight	1584.2	109.3	173128.9	-0.25	-399.9
Most Forward C of G	2134.2	100.2	213897.9	0.43	909.07
Most Aft C of G	2144.2	105.8	226823.9	-1.22	-2609.9

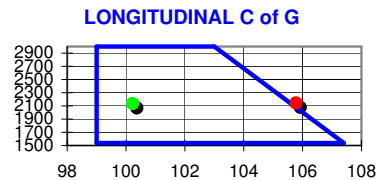


WEIGHT & BALANCE CONFIGURATION NO. 2

Purpose: Addition of Inlet Diverter

Selective loading in this configuration

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment #3	1584.2	109.3	173128.9	-0.25	-399.9
Add Inlet Diverter	158.2	9.8	185.6	0.00	0.0
New Empty Weight	1742.4	109.3	173314.5	-0.25	-399.9
Most Forward C of G	2136.2	100.2	214083.5	0.43	909.07
Most Aft C of G	2146.2	105.8	227009.5	-1.22	-2609.9



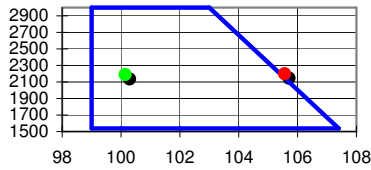
NIA TO THIS AIRCRAFT

WEIGHT & BALANCE CONFIGURATION NO. 3

Purpose: Addition of Skyrotors Pods
Selective loading in this configuration

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment #3	1584.2	109.3	173128.9	-0.25	-399.93	
Add Sky Pods	56.0	96.9	5426.4	0.00	0.00	
New Empty Weight	1640.2	108.9	178555.3	-0.24	-399.9	
Most Forward C of G	●	2190.2	100.1	219324.3	0.42	909.07
Most Aft C of G	●	2200.2	105.6	232250.3	-1.19	-2609.9

LONGITUDINAL C of G

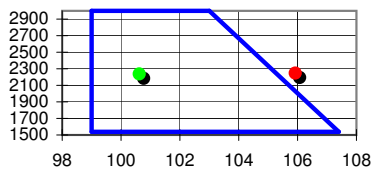


WEIGHT & BALANCE CONFIGURATION NO. 4

Purpose: Addition of Tower Aux Tank (Only)
Selective loading in this configuration

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment #3	1584.2	109.3	173128.9	-0.25	-399.9	
Add Aux Tank	104.3	108.7	11337.4	0.00	0.00	
New Empty Weight	1688.5	109.2	184466.3	-0.24	-399.9	
Most Forward C of G	●	2238.5	100.6	225235.3	0.41	909.07
Most Aft C of G	●	2248.5	105.9	238161.3	-1.16	-2609.9

LONGITUDINAL C of G



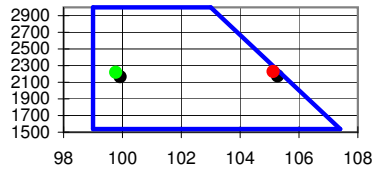
WEIGHT & BALANCE CONFIGURATION NO. 5

Purpose: Addition of Viking Cargo Pod

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment #3	1584.2	109.3	173128.9	-0.25	-399.9
Add Viking Pod	85.8	88.5	7593.3	0.00	0.0
New Empty Weight	1670.0	108.2	180722.2	-0.24	-399.9

Most Forward C of G	●	2220.0	99.8	221491.2	0.41	909.07
Most Aft C of G	●	2230.0	105.1	234417.2	-1.17	-2609.9

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 6

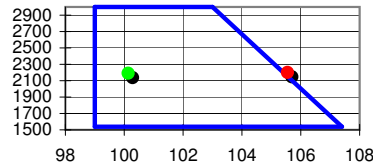
Purpose: Addition of Inlet Diverter & Sky Pods

Selective loading in this configuration

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment #3	1584.2	109.28	173128.9	-0.25	-399.9
Add Inlet Diverter	50	92.80	185.6	0.00	0.0
Add Sky Pods	50	96.90	5426.4	0.00	0.0
New Empty Weight	1642.2	108.8	178740.9	-0.24	-399.9

Most Forward C of G	●	2192.2	100.1	219509.9	0.41	909.07
Most Aft C of G	●	2202.2	105.5	232435.9	-1.19	-2609.9

LONGITUDINAL C of G



NIA TO THIS AIRCRAFT

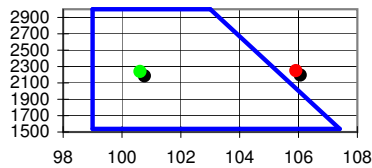
WEIGHT & BALANCE CONFIGURATION NO. 7

Purpose: Addition of Inlet Diverter & Tower Aux Tank

Selective Loading in this configuration

	Longitudinal		Lateral	
	Weight	Arm	Moment	Moment
Empty Weight as per W & B:	1584.2	109.3	1710.6	-0.25
Amendment #3				
Add Inlet Diverter	2.0	8.8	17.6	0.00
Add Aux Tank	1337.4	105.7	14137.4	0.00
New Empty Weight	184651.9	109.2	184651.9	-0.24
Most Forward C of G	2240.0	100.6	225420.9	0.41
Most Aft C of G	2250.5	105.9	238346.9	-1.16

LONGITUDINAL C of G

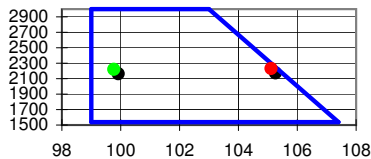


WEIGHT & BALANCE CONFIGURATION NO. 8

Purpose: Addition of Inlet Diverter & Viking Cargo Pod

	Longitudinal		Lateral	
	Weight	Arm	Moment	Moment
Empty Weight as per W & B:	1584.2	109.3	1710.6	-0.25
Amendment #3				
Add Inlet Diverter	185.6	9.5	175.6	0.00
Add Viking Cargo Pod	7593.3	103.5	78593.3	0.00
New Empty Weight	180907.8	108.2	180907.8	-0.24
Most Forward C of G	2222.0	99.8	221676.8	0.41
Most Aft C of G	2232.0	105.1	234602.8	-1.17

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 9

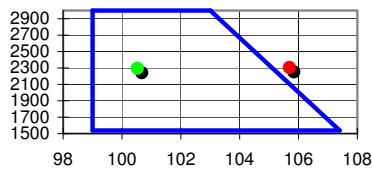
Purpose: Addition of Inlet Diverter, Tower Aux Tank & Sky Pods

Selective Loading in this configuration

	Longitudinal		Lateral		Moment
	Weight	Arm	Moment	Arm	
Empty Weight as per W & B:	1584.2	101.1	7373.9	-0.25	-399.9
Amendment #3					
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0
Add Aux Tank	1013.3	11.1	11337.4	0.00	0.00
Add Sky Pods	10.2	52.6	5426.4	0.00	0.0
New Empty Weight		108.8	190078.3	-0.23	-399.9

Most Forward of G	2296.5	100.5	230847.3	0.40	909.07
Most Aft of G	2306.5	105.7	243773.3	-1.13	-2609.9

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 10

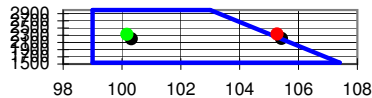
Purpose: Addition of Inlet Diverter, Tower Tank & Viking Pod

Selective loading in this configuration

	Longitudinal		Lateral		Moment
	Weight	Arm	Moment	Arm	
Empty Weight as per W & B:	1584.2	101.1	7373.9	-0.25	-399.93
Amendment #3					
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.00
Add Aux Tank	1013.3	11.1	11337.4	0.00	0.00
Add Viking Cargo Pod	10.2	74.5	7593.3	0.00	0.00
New Empty Weight		108.2	192245.2	-0.23	-399.93

Most Forward of G	2326.3	100.2	233014.2	0.39	909.07
Most Aft of G	2336.3	105.3	245940.2	-1.12	-2609.9

LONGITUDINAL C of G

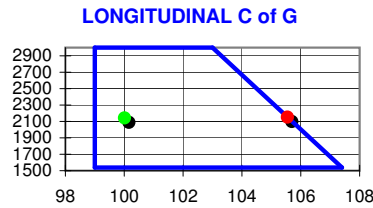


100.2	2326.3
105.3	2336.3

WEIGHT & BALANCE CONFIGURATION NO. 11

Purpose: Addition of Dual Controls

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment #3	1584.2	109.3	173128.9	-0.25	-399.9
Add Dual Controls	9.4	51.0	479.4	0.00	0.0
New Empty Weight	1593.6	108.9	173608.3	-0.25	-399.9
Most Forward C of G	2143.6	100.0	214377.3	0.42	909.07
Most Aft C of G	2153.6	105.5	227303.3	-1.21	-2609.9

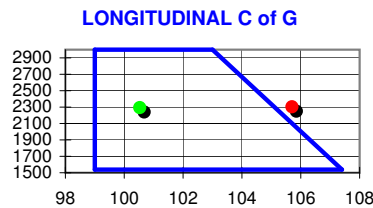


WEIGHT & BALANCE CONFIGURATION NO. 12

Purpose: Addition of Tower Aux Tank & Sky Pods

Selective loading in this configuration

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment #3	1584.2	109.3	173128.9	-0.25	-399.9
Add Aux Tank	104.3	108.7	11337.4	0.00	0.00
Add Sky Pods	56.0	96.9	5426.4	0.00	0.0
New Empty Weight	1744.5	108.9	189892.7	-0.23	-399.9
Most Forward C of G	2294.5	100.5	230661.7	0.40	909.07
Most Aft C of G	2304.5	105.7	243587.7	-1.13	-2609.9



WEIGHT & BALANCE CONFIGURATION NO. 13

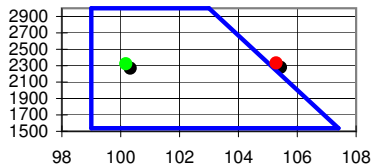
Purpose: Addition of Tower Aux Tank & Viking Cargo Pod

Selective loading in this configuration

Empty Weight as per W & B:	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Amendment #3	1584.2	109.3	173128.9	-0.25	-399.93
Add Aux Tank	104.3	108.7	11337.4	0.00	0.00
Add Viking Cargo Pod	85.8	88.5	7593.3	0.00	0.00
New Empty Weight	1774.3	108.2	192059.6	-0.23	-399.93

Most Forward C of G	●	2324.3	100.2	232828.6	0.39	909.07
Most Aft C of G	●	2334.3	105.3	245754.6	-1.12	-2609.9

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 14

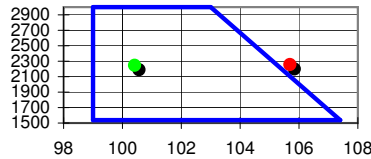
Purpose: Addition of Dual Controls & Tower Aux Tank

Selective loading in this configuration

Empty Weight as per W & B:	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Amendment #3	1584.2	109.3	173128.9	-0.25	-399.9
Add Dual Controls	9.4	51.0	479.4	0.00	0.0
Add Aux Tank	104.3	108.7	11337.4	0.00	0.00
New Empty Weight	1697.9	108.9	184945.7	-0.24	-399.9

Most Forward C of G	●	2247.9	100.4	225714.7	0.40	909.07
Most Aft C of G	●	2257.9	105.7	238640.7	-1.16	-2609.9

LONGITUDINAL C of G

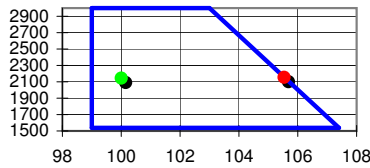


WEIGHT & BALANCE CONFIGURATION NO. 15

Purpose: Addition of Dual Controls & Inlet Diverter

	Longitudinal		Lateral		
Empty Weight as per W & B:	Weight	Arm	Weight	Arm	Moment
Amendment #3	1584.2	105.5	173793.9	-0.25	-399.9
Add Dual Controls	9.4	51.7	479.4	0.00	0.0
Add Inlet Diverter	0.0	92.8	185.6	0.00	0.0
New Empty Weight	1593.6	106.9	173793.9	-0.25	-399.9
Most Forward C of G	111.6	100.0	214562.9	0.42	909.07
Most Aft C of G	2155.6	105.5	227488.9	-1.21	-2609.9

LONGITUDINAL C of G



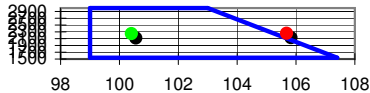
WEIGHT & BALANCE CONFIGURATION NO. 16

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

Selective loading in this configuration

	Longitudinal		Lateral		
Empty Weight as per W & B:	Weight	Arm	Weight	Arm	Moment
Amendment #3	1584.2	105.3	185128.9	-0.25	-399.9
Add Dual Controls	9.4	51.7	479.4	0.00	0.0
Add Aux Tank	0.0	108.7	11337.4	0.00	0.00
Add Inlet Diverter	0.0	92.8	185.6	0.00	0.0
New Empty Weight	1593.6	108.9	185131.3	-0.24	-399.9
Most Forward C of G	2249.9	100.4	225900.3	0.40	909.07
Most Aft C of G	2259.9	105.7	238826.3	-1.15	-2609.9

LONGITUDINAL C of G



100.4	2249.9
105.7	2259.9

WEIGHT & BALANCE CONFIGURATION NO. 17

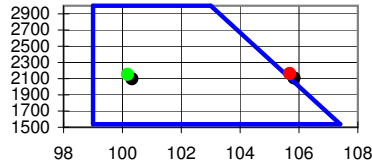
Purpose: Addition of Dynaflight System

LSTC # C-LSH01-132/D

Selective loading in this configuration

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment #3	1584.2	109.3	173128.9	-0.25	-399.9	
Add Dynabyte	15.0	111.6	1674.0	0.00	0.0	
Add Dynavix	2.0	46.8	93.6	-21.00	-42.0	
Add Collective Switch Box	1.0	58.6	58.6	-21.00	-21.0	
Add GPS Antenna	2.0	32.0	64.0	8.50	17.0	
New Empty Weight	1604.2	109.1	175019.1	-0.28	-445.9	
Most Forward C of G	●	2154.2	100.2	215788.1	0.40	863.07
Most Aft C of G	●	2164.2	105.7	228714.1	-1.23	-2655.9

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 18

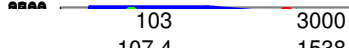
Purpose: Addition of Dual Controls, Tower Tank

Diverter

Selective loading in this configuration

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment #3	1584.2	109.3	173128.9	-0.25	-399.9	
Add Dual Controls	11.0	51.0	479.4	0.00	0.0	
Add Aux Tank	104.3	108.7	11337.4	0.00	0.00	
Add Inlet Valve	2.0	92.8	185.6	0.00	0.0	
New Empty Weight	1699.9	108.9	185131.3	-0.24	-399.9	
Most Forward C of G	●	2249.9	100.4	225900.3	0.40	909.07
Most Aft C of G	●	2259.9	105.7	238826.3	-1.15	-2609.9

LONGITUDINAL C of G



NIA TO THIS AIRCRAFT

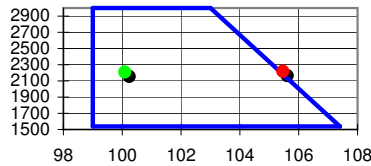
WEIGHT & BALANCE CONFIGURATION NO. 19

Purpose: Addition of Dynaflight System and Skyrotor Pods
LSTC # C-LSH01-132/D

Selective loading in this configuration

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment #3	1584.2	109.3	173128.9	-0.25	-399.9	
Add Sky Pods	56.0	96.90	5426.4	0.00	0.0	
Add Dynabyte	15.0	111.6	1674.0	0.00	0.0	
Add Dynavix	2.0	46.8	93.6	-21.00	-42.0	
Add Collective Switch Box	1.0	58.6	58.6	-21.00	-21.0	
Add GPS Antenna	2.0	32.0	64.0	8.50	17.0	
New Empty Weight	1660.2	108.7	180445.5	-0.27	-445.9	
Most Forward C of G	●	2210.2	100.1	221214.5	0.39	863.07
Most Aft C of G	●	2220.2	105.5	234140.5	-1.20	-2655.9

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 20

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

Selective loading in this configuration

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment #3	1584.2	109.3	173128.9	-0.25	-399.9	
Add Dual Controls	9.0	98.7	888.3	0.00	0.0	
Add Aux Tank	100.0	113.4	11337.4	0.00	0.00	
Add Inlet Diverter	10.0	92.8	185.6	0.00	0.0	
New Empty Weight	1699.9	108.9	185131.3	-0.24	-399.9	
Most Forward C of G	●	2249.9	100.4	225900.3	0.40	909.07
Most Aft C of G	●	2259.9	105.7	238826.3	-1.15	-2609.9

LONGITUDINAL C of G



NIA TO THIS AIRCRAFT

