

WEIGHT & BALANCE REPORT

Original as Weighed on: 20-Jan-98

Registration: C-GMTB
 Manufacturer: MD HELICOPTERS INC.
 Model: 500D
 Serial No: 310918D

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
716.0	0.0	716.0	96.9	69380.4
647.0	0.0	647.0	96.9	62694.3
200.0	0.0	200.0	197.2	39440.0
		1563.0	109.7	171514.7

Empty Weight & C of G

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
	1563.0	109.7	171514.7	-1.13	-1766.4

Most Forward C of G

Empty Weight	1563.0	109.7	171514.7	-1.13	-1766.4
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
	2203.0	99.3	218838.7	-0.10	-226.4

Most Aft C of G

Empty Weight	1563.0	109.7	171514.7	-1.13	-1766.4
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	30.0	110.0	3300.0	0.00	0.0
	2193.0	105.6	231514.7	-1.99	-4366.4

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 #9

Date: 2-Mar-09

Registration: **C-GMTB**
Manufacturer: Hughes
Model: 500D
Serial No: 310918D

Purpose: Remove Artex ELT & Antenna
Install Kannad 406 ELT & Antenna

Empty Weight as per W & B:	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Amendment #8	1576.4	109.79144887	173075.2	-1.113867	-1755.9
Remove Artex ELT	-3.600	44.700	-160.9	6.500	-23.400
Remove Artex ELT antenna	-0.090	82.500	-7.4	-25.750	2.318
Install Kannad 406 ELT	1.900	44.700	84.9	6.500	12.350
Install Kannad 406 ELT antenna	0.400	82.500	33.0	-25.750	-10.300
New Empty Weight	1575.0	109.9	173024.8	-1.13	-1774.9

Most Forward C of G

Empty Weight	1576.4	109.8	173075.2	-1.11	-1755.9
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
	2216.4	99.4	220399.2	-0.10	-215.9

Most Aft C of G

Empty Weight	1576.4	109.8	173075.2	-1.11	-1755.9
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
	2226.4	105.7	235275.2	-1.96	-4355.9

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

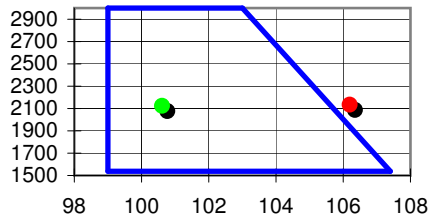
Refer to the Equipment List

Selective Loading Required

Empty Weight as per W & B: Amendment #9	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
New Empty Weight	1575.0	109.9	173024.8	-1.13	-1774.9

Most Forward C of G	●	2125.0	100.6	213793.8	-0.22	-465.93
Most Aft C of G	●	2135.0	106.2	226719.8	-1.87	-3984.9

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 2

Purpose: Addition of Inlet Diverter

Selective Loading Required

Empty Weight as per W & B: Amendment #9	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0
New Empty Weight	1577.0	109.8	173210.4	-1.13	-1774.9

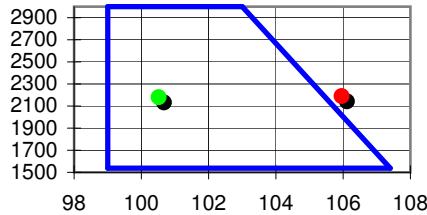
WEIGHT & BALANCE CONFIGURATION NO. 3

Purpose: Addition of Skyrotors Pods

Selective Loading Required

Empty Weight as per W & B:	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Amendment #9	1575.0	109.9	173024.8	-1.13	-1774.93
Add Sky Pods	56.0	96.9	5426.4	0.00	0.00
New Empty Weight	1631.0	109.4	178451.2	-1.09	-1774.9
Most Forward C of G	2181.0	100.5	219220.2	-0.21	-465.93
Most Aft C of G	2191.0	106.0	232146.2	-1.82	-3984.9

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
Amendment #9	1575.0	109.9	173024.8	-1.13	-1774.9
Add Aux Tank	36.5	117.3	4282.9	0.00	0.0
New Empty Weight	1611.5	110.0	177307.7	-1.10	-1774.9
Most Forward C of G	2161.5	100.9	218076.7	-0.22	-465.93
Most Aft C of G	2171.5	106.4	231002.7	-1.84	-3984.9

LONGITUDINAL C of G

99 3000

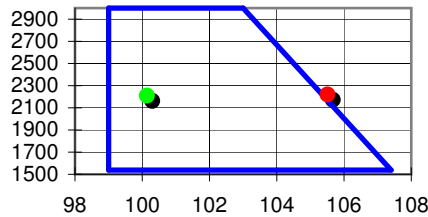
WEIGHT & BALANCE CONFIGURATION NO. 5

Purpose: Addition of Viking Cargo Pod

Selective Loading Required

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment #9	1575.0	109.9	173024.8	-1.13	-1774.9	
Add Viking Pod	85.8	88.5	7593.3	0.00	0.0	
New Empty Weight	1660.8	108.8	180618.1	-1.07	-1774.9	
Most Forward C of G	●	2210.8	100.1	221387.1	-0.21	-465.93
Most Aft C of G	●	2220.8	105.5	234313.1	-1.79	-3984.9

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 6

Purpose: Addition of Inlet Diverter & Sky Pods

Selective Loading Required

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment #9	1575.0	109.86	173024.8	-1.13	-1774.9	
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	1633.0	109.4	178636.8	-1.09	-1774.9	
Most Forward C of G	●	2183.0	100.5	219405.8	-0.21	-465.93
Most Aft C of G	●	2193.0	105.9	232331.8	-1.82	-3984.9
		99	1538			

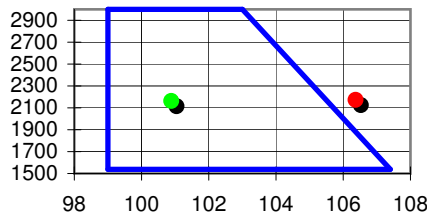
WEIGHT & BALANCE CONFIGURATION NO. 7

Purpose: Addition of Inlet Diverter & Fargo Aux Tank

Selective Loading Required

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment #9	1575.0	109.9	173024.8	-1.13	-1774.9	
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	1613.5	110.0	177493.3	-1.10	-1774.9	
Most Forward C of G	●	2163.5	100.9	218262.3	-0.22	-465.93
Most Aft C of G	●	2173.5	106.4	231188.3	-1.83	-3984.9

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 8

Purpose: Addition of Inlet Diverter & Viking Cargo Pod

Selective Loading Required

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment #9	1575.0	109.9	173024.8	-1.13	-1774.9	
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	1662.8	108.7	180803.7	-1.07	-1774.9	
Most Forward C of G	●	2212.8	100.1	221572.7	-0.21	-465.93
Most Aft C of G		2222.8	105.5	234498.7	-1.79	-3984.9

WEIGHT & BALANCE CONFIGURATION NO. 9

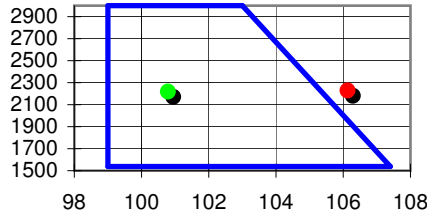
Purpose: Addition of Inlet Diverter, Fargo Aux Tank & Sky Pods

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment #9	1575.0	109.9	173024.8	-1.13	-1774.9
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	1669.5	109.6	182919.7	-1.06	-1774.9

Most Forward C of G	●	2219.5	100.8	223688.7	-0.21	-465.93
Most Aft C of G	●	2229.5	106.1	236614.7	-1.79	-3984.9

LONGITUDINAL C of G



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:					
Amendment #9	1575.0	109.9	173024.8	-1.13	-1774.93
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	1699.3	108.9	185086.6	-1.04	-1774.93

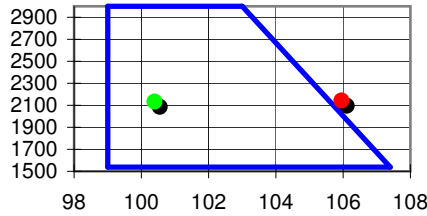
WEIGHT & BALANCE CONFIGURATION NO. 11

Purpose: **Addition of Dual Controls**

Selective Loading Required

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment #9	1575.0	109.9	173024.8	-1.13	-1774.9	
Add Dual Controls	9.4	51.0	479.4	0.00	0.0	
New Empty Weight	1584.4	109.5	173504.2	-1.12	-1774.9	
Most Forward C of G	●	2134.4	100.4	214273.2	-0.22	-465.93
Most Aft C of G	●	2144.4	105.9	227199.2	-1.86	-3984.9

LONGITUDINAL C of G



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:						
Amendment #9	1575.0	109.9	173024.8	-1.13	-1774.9	
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	1667.5	109.6	182734.1	-1.06	-1774.9	
Most Forward C of G	●	2217.5	100.8	223503.1	-0.21	-465.93
Most Aft C of G	●	2227.5	106.1	236429.1	-1.79	-3984.9
		99	1538			

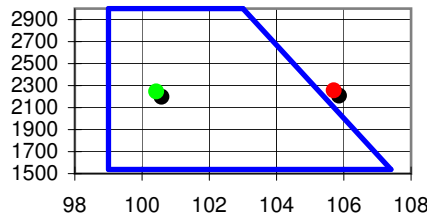
WEIGHT & BALANCE CONFIGURATION NO. 13

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:						
Amendment #9	1575.0	109.9	173024.8	-1.13	-1774.93	
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	1697.3	108.9	184901.0	-1.05	-1774.93	
Most Forward C of G	●	2247.3	100.4	225670.0	-0.21	-465.93
Most Aft C of G	●	2257.3	105.7	238596.0	-1.77	-3984.9

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:						
Amendment #9	1575.0	109.9	173024.8	-1.13	-1774.9	
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	1620.9	109.7	177787.1	-1.10	-1774.9	
Most Forward C of G	●	2170.9	100.7	218556.1	-0.21	-465.93
Most Aft C of G		2180.9	106.1	231482.1	-1.83	-3984.9

WEIGHT & BALANCE CONFIGURATION NO. 15

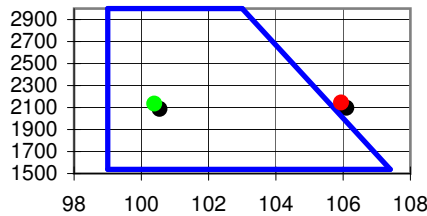
Purpose: **Addition of Dual Controls & Inlet Diverter**

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment #9	1575.0	109.9	173024.8	-1.13	-1774.9
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	1586.4	109.5	173689.8	-1.12	-1774.9

Most Forward C of G	●	2136.4	100.4	214458.8	-0.22	-465.93
Most Aft C of G	●	2146.4	105.9	227384.8	-1.86	-3984.9

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 16

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

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment #9	1575.0	109.9	173024.8	-1.13	-1774.9
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	1622.9	109.7	177972.7	-1.09	-1774.9