

WEIGHT & BALANCE REPORT

Original as Weighed on: 30-Mar-07

Registration: C-GOPC
 Manufacturer: MD HELICOPTERS INC.
 Model: 500D
 Serial No: 1280405D

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

Weighing points	Scale	Tare	Net Weight	Arm	Moment
Fwd Jackpoint, L/H	680.0	0.0	680.0	96.9	65892.0
Fwd Jackpoint, R/H	684.0	0.0	684.0	96.9	66279.6
Aft Jackpoint	206.0	0.0	206.0	197.2	40623.2
			1570.0	110.1	172794.8

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
	1570.0	110.1	172794.8	-0.32	102.4
Empty Weight & C of G	1570.0	110.1	172794.8	0.07	102.4

Most Forward C of G

Empty Weight	1570.0	110.1	172794.8	0.07	102.4
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
	2120.0	100.7	213563.8	0.67	1411.4

Most Aft C of G

Empty Weight	1570.0	110.1	172794.8	0.07	102.4
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	20.0	110.0	2200.0	0.00	0.0
	2100.0	106.3	223189.8	-1.00	-2107.6

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

Signature & Licence # _____

AMO158-90

**Purpose: Remove Current ELT & Antenna
Install Kannad 406 AF-Compact ELT & Antenna**

Empty Weight as per W & B:	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Original	1570.0	110.1	172794.8	0.07	102.4
Remove ACK ELT E-01	-3.5	38.7	-135.3	6.50	-22.8
Install KANNAD 406 ELT	1.9	44.7	83.5	6.50	12.2
Remove ELT Antenna	-0.1	82.5	-7.4	-25.75	2.3
Install KANNAD ELT Antenna	0.4	82.5	30.9	-25.75	-9.7
New Empty Weight	1568.7	110.1	172766.5	0.05	84.5

Most Forward C of G

Empty Weight	1568.7	110.1	172766.5	0.05	84.5
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
	2118.7	100.8	213535.5	0.66	1393.5

Most Aft C of G

Empty Weight	1568.7	110.1	172766.5	0.05	84.5
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	20.0	110.0	2200.0	0.00	0.0
	2098.7	106.3	223161.5	-1.01	-2125.5

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

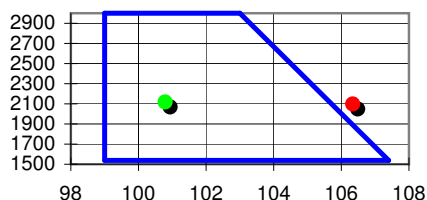
Purpose: To Establish a Basic Aircraft Configuration

Refer to the Equipment List

Selective Loading Required

Empty Weight as per W & B: Ammendment #1	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
New Empty Weight	1568.7	110.1	172766.5	0.05	84.5
Most Forward C of G	2118.7	100.8	213535.5	0.66	1393.47
Most Aft C of G	2098.7	106.3	223161.5	-1.01	-2125.5

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 2

N/A TO THIS AIRCRAFT

Purpose: Addition of Inlet Diverter

Empty Weight as per W & B: Ammendment #1	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
New Empty Weight	1570.7	110.1	172952.1	0.05	84.5
Most Forward C of G	2120.7	100.8	213721.1	0.66	1393.47
Most Aft C of G	2100.7	106.3	223347.1	-1.01	-2125.5
	99	1538			

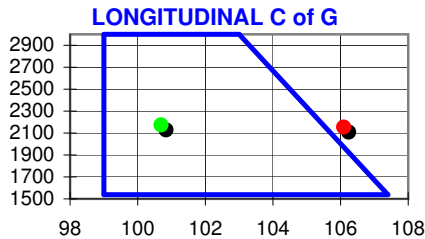
WEIGHT & BALANCE CONFIGURATION NO. 3

Selective Loading Required

Purpose: **Addition of Skyrotors Pods**

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Ammendment #1	1568.7	110.1	172766.5	0.05	84.47
Add Sky Pods	56.0	96.9	5426.4	0.00	0.00
New Empty Weight	1624.7	109.7	178192.9	0.05	84.5

Most Forward C of G	●	2174.7	100.7	218961.9	0.64	1393.47
Most Aft C of G	●	2154.7	106.1	228587.9	-0.99	-2125.5



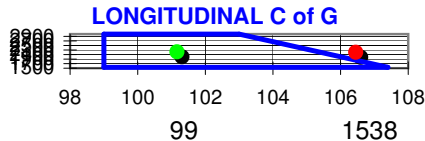
WEIGHT & BALANCE CONFIGURATION NO. 4

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:					
Ammendment #1	1568.7	110.1	172766.5	0.05	84.5
Add Aux Tank	104.3	108.7	11337.4	0.00	0.0
New Empty Weight	1673.0	110.0	184103.9	0.05	84.5

Most Forward C of G	●	2223.0	101.2	224872.9	0.63	1393.47
Most Aft C of G	●	2203.0	106.4	234498.9	-0.96	-2125.5

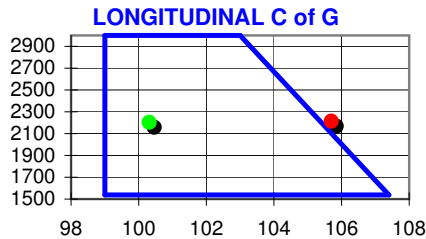


WEIGHT & BALANCE CONFIGURATION NO. 5

Selective Loading Required

Purpose: Addition of Viking Cargo Pod

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Ammendment #1	1568.7	110.1	172766.5	0.05	84.5	
Add Viking Pod	85.8	88.5	7593.3	0.00	0.0	
New Empty Weight	1654.5	109.0	180359.8	0.05	84.5	
Most Forward C of G	●	2204.5	100.3	221128.8	0.63	1393.47
Most Aft C of G	●	2214.5	105.7	234054.8	-0.96	-2125.5

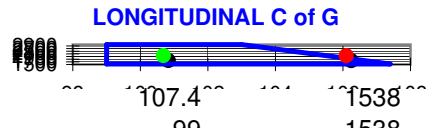


WEIGHT & BALANCE CONFIGURATION NO. 6

N/A TO THIS AIRCRAFT

Purpose: Addition of Inlet Diverter & Sky Pods

Empty Weight as per W & B:	Weight	Longitudinal		Lateral		
		Arm	Moment	Arm	Moment	
<i>New Empty Weight</i>	1568.7	110.14	172766.5	0.05	84.5	
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	1626.7	109.7	178378.5	0.05	84.5	
Most Forward C of G	●	2176.7	100.7	219147.5	0.64	1393.47
Most Aft C of G	●	2166.7	106.1	229873.5	-0.98	-2125.5



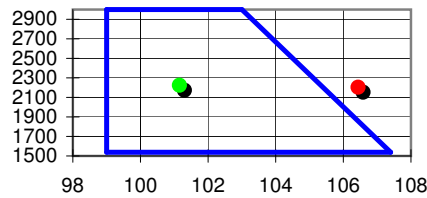
WEIGHT & BALANCE CONFIGURATION NO. 7

N/A TO THIS AIRCRAFT

Purpose: Addition of Inlet Diverter & Tower Aux Tank

Empty Weight as per W & B:	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Ammendment #1	1568.7	110.1	172766.5	0.05	84.5
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0
Add Aux Tank	104.3	108.7	11337.4	0.00	0.0
New Empty Weight	1675.0	110.0	184289.5	0.05	84.5
Most Forward C of G	2225.0	101.2	225058.5	0.63	1393.47
Most Aft C of G	2205.0	106.4	234684.5	-0.96	-2125.5

LONGITUDINAL C of G



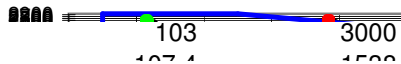
WEIGHT & BALANCE CONFIGURATION NO. 8

N/A TO THIS AIRCRAFT

Purpose: Addition of Inlet Diverter & Viking Cargo Pod

Empty Weight as per W & B:	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight	1568.7	110.1	172766.5	0.05	84.5
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	1656.5	109.0	180545.4	0.05	84.5
Most Forward C of G	2206.5	100.3	221314.4	0.63	1393.47
Most Aft C of G	2216.5	105.7	234240.4	-0.96	-2125.5

LONGITUDINAL C of G



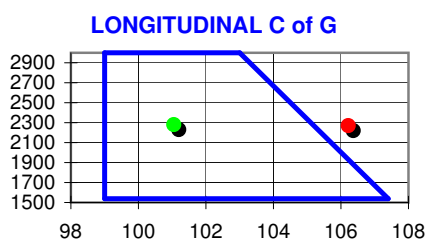
WEIGHT & BALANCE CONFIGURATION NO. 9

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

N/A TO THIS AIRCRAFT

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Ammendment #1	1568.7	110.1	172766.5	0.05	84.5
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0
Add Aux Tank	104.3	108.7	11337.4	0.00	0.0
Add Sky Pods	56.0	96.9	5426.4	0.00	0.0
New Empty Weight	1731.0	109.6	189715.9	0.05	84.5

Most Forward C of G	●	2281.0	101.0	230484.9	0.61	1393.47
Most Aft C of G	●	2271.0	106.2	241210.9	-0.94	-2125.5



WEIGHT & BALANCE CONFIGURATION NO. 10

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

N/A TO THIS AIRCRAFT

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Ammendment #1	1568.7	110.1	172766.5	0.05	84.47
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.00
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	1760.8	109.0	191882.8	0.05	84.47

Most Forward C of G	●	2310.8	100.7	232651.8	0.60	1393.47
Most Aft C of G	●	2320.8	105.8	245577.8	-0.92	-2125.5
		99	1538			

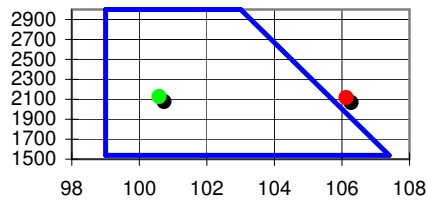
WEIGHT & BALANCE CONFIGURATION NO. 11

Selective Loading Required

Purpose: Addition of Dual Controls

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Most Aft C of G	1568.7	110.1	172794.8	0.05	102.4
Add Dual Controls	9.4	51.0	479.4	0.00	0.0
New Empty Weight	1578.1	109.8	173274.2	0.06	102.4
Most Forward C of G	2128.1	100.6	214043.2	0.66	1411.40
Most Aft C of G	2118.1	106.1	224769.2	-1.00	-2107.6

LONGITUDINAL C of G



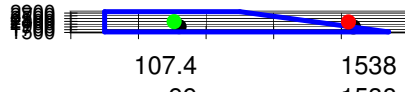
WEIGHT & BALANCE CONFIGURATION NO. 12

Selective Loading Required

Purpose: Addition of Tower Aux Tank & Sky Pods

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Ammendment #1	1568.7	110.1	172766.5	0.05	84.5
Add Aux Tank	104.3	108.7	11337.4	0.00	0.0
Add Sky Pods	56.0	96.9	5426.4	0.00	0.0
New Empty Weight	1729.0	109.6	189530.3	0.05	84.5
Most Forward C of G	2279.0	101.1	230299.3	0.61	1393.47
Most Aft C of G	2259.0	106.2	239925.3	-0.94	-2125.5

LONGITUDINAL C of G



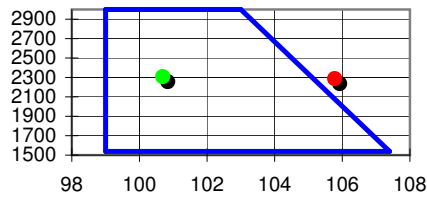
WEIGHT & BALANCE CONFIGURATION NO. 13

Purpose: Addition of Tower Aux Tank & Viking Cargo Pod

Selective Loading Required

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Ammendment #1	1568.7	110.1	172766.5	0.05	84.47	
Add Aux Tank	104.3	108.7	11337.4	0.00	0.0	
Add Viking Cargo Pod	85.8	88.5	7593.3	0.00	0.00	
New Empty Weight	1758.8	109.0	191697.2	0.05	84.47	
Most Forward C of G	●	2308.8	100.7	232466.2	0.60	1393.47
Most Aft C of G	●	2288.8	105.8	242092.2	-0.93	-2125.5

LONGITUDINAL C of G



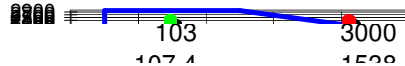
WEIGHT & BALANCE CONFIGURATION NO. 14

Purpose: Addition of Dual Controls & Tower Aux Tank

Note: Selective Loading Required

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Ammendment #1	1568.7	110.1	172766.5	0.05	84.5	
Add Dual Controls	9.4	51.0	479.4	0.00	0.0	
Add Aux Tank	104.3	108.7	11337.4	0.00	0.0	
New Empty Weight	1682.4	109.7	184583.3	0.05	84.5	
Most Forward C of G	●	2232.4	100.9	225352.3	0.62	1393.47
Most Aft C of G	●	2222.4	106.2	236078.3	-0.96	-2125.5

LONGITUDINAL C of G



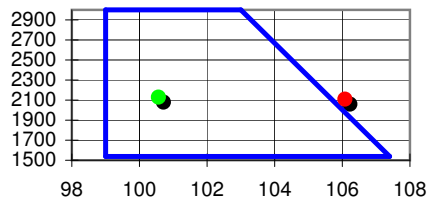
WEIGHT & BALANCE CONFIGURATION NO. 15

N/A TO THIS AIRCRAFT

Purpose: Addition of Dual Controls & Inlet Diverter

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Ammendment #1	1568.7	110.1	172766.5	0.05	84.5	
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	1580.1	109.8	173431.5	0.05	84.5	
Most Forward C of G	●	2130.1	100.6	214200.5	0.65	1393.47
Most Aft C of G	●	2110.1	106.1	223826.5	-1.01	-2125.5

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 16

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

N/A TO THIS AIRCRAFT

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Ammendment #1	1568.7	110.1	172766.5	0.05	84.5	
Add Dual Controls	9.4	51.0	479.4	0.00	0.0	
Add Aux Tank	104.3	108.7	11337.4	0.00	0.0	
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0	
New Empty Weight	1684.4	109.7	184768.9	0.05	84.5	
Most Forward C of G	●	2234.4	100.9	225537.9	0.62	1393.47
Most Aft C of G	●	2214.4	106.2	235163.9	-0.96	-2125.5
		99	1538			

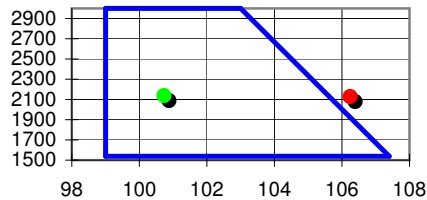
WEIGHT & BALANCE CONFIGURATION NO. 17

Selective Loading Required

Purpose: **Addition of Dynaflight System**
LSTC # C-LSH01-132/D

Empty Weight as per W & B:	Weight	Longitudinal Arm	Moment	Lateral Arm	Moment	
Ammendment #1	1568.7	110.1	172766.5	0.05	84.5	
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	1588.7	109.9	174656.7	0.02	38.5	
Most Forward C of G	●	2138.7	100.7	215425.7	0.63	1347.47
Most Aft C of G	●	2128.7	106.2	226151.7	-1.02	-2171.5

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 18

N/A TO THIS AIRCRAFT

Purpose: **Addition of Dynaflight System and Inlet Diverter**
LSTC # C-LSH01-132/D

Empty Weight as per W & B:	Weight	Longitudinal Arm	Moment	Lateral Arm	Moment
Ammendment #1	1568.7	110.1	172766.5	0.05	84.5
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 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	1590.7	109.9	174842.3	0.02	38.5

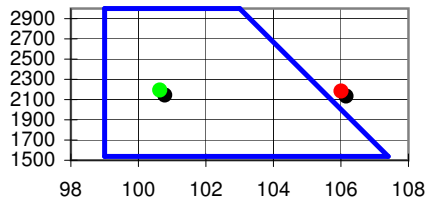
WEIGHT & BALANCE CONFIGURATION NO. 19

Selective Loading Required

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

Empty Weight as per W & B:	Weight	Longitudinal Arm	Moment	Lateral Arm	Moment	
Ammendment #1	1568.7	110.1	172766.5	0.05	84.5	
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	1644.7	109.5	180083.1	0.02	38.5	
Most Forward C of G	●	2194.7	100.6	220852.1	0.61	1347.47
Most Aft C of G	●	2184.7	106.0	231578.1	-0.99	-2171.5

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 20

N/A TO THIS AIRCRAFT

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

Empty Weight as per W & B:	Weight	Longitudinal Arm	Moment	Lateral Arm	Moment
Ammendment #1	1568.7	110.1	172766.5	0.05	84.5
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0
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	1646.7	109.5	180268.7	0.02	38.5

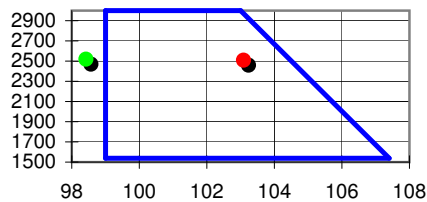
WEIGHT & BALANCE CONFIGURATION NO. 21

Purpose: Addition of Hydro Service System as per SH92-63

Selective Loading Required

Empty Weight as per W & B:	Weight	Longitudinal Arm	Moment	Lateral Arm	Moment	
Ammendment #1	1568.7	110.1	172766.5	0.05	84.5	
Install platform	85.5	86.9	7430.0	-3.00	-256.5	
Install saddles	7.2	86.9	625.7	-59.00	-424.8	
Install boom assembly	103.0	79.9	8229.7	-59.00	-6077.0	
Install water tank-empty	41.0	100.0	4100.0	7.00	287.0	
Install pump/engine-dry	160.0	86.9	13904.0	69.00	11040.0	
Install stow strut assy	4.0	32.0	128.0	-50.00	-200.0	
New Empty Weight	1969.4	105.2	207183.9	2.26	4453.2	
Most Forward C of G	●	2519.4	98.4	247952.9	2.29	5762.17
Most Aft C of G	●	2509.4	103.1	258678.9	0.89	2243.2

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 22

Purpose: Addition of Hydro Service System as per SH92-63 without the boom assy and pump (for ferrying)

Selective Loading Required

Empty Weight as per W & B:	Weight	Longitudinal Arm	Moment	Lateral Arm	Moment
Ammendment #1	1568.7	110.1	172766.5	0.05	84.5
Add platform	85.5	86.9	7430.0	-3.00	-256.5
Add saddles	7.2	86.9	625.7	-59.00	-424.8
Add water tank-empty	—	41.0	100.0	7.00	287.0
Add stow strut assy	4.0	32.0	128.0	-50.00	-200.0

