



MASS & BALANCE

A/C Type		T.Registration		S.N.	Flight Type	
AW-109 S		I-PNTD		22140	EMS	
Masses	Kg	CG Long.	MM Long.	CG Lat.	MM Lat.	Note
Dry Mass	2181.39	3479	7589055.44	2	4362.78	
Pilot mass	67	1385	92795	335	22445	
Copilot mass	76	1385	105260	-325	-24700	
Consumable loads	10	4280	42800	0	0	
Dry operating Mass	2334.39	3354.16	7829910.44	0.9	2107.78	
Spinning seat (DOCTOR)	90	2210	198900	304.8	27432	
Right fixed seat (ASSISTANT)	110	3492	384120	450	49500	
Central fixed seat	23	3492	80316	0	0	
Stretcher section	0	2869	0	-450	0	
Passengers Load	223	2974.6	663336	344.99	76932	
Cabin load	62	2743.61	170104	-362.9	-22500	
Baggage Load	15	5767	86505	0	0	
Rescue Hoist Load	0	3190	0	953.5	0	
Floats (57,54)	0	3543	0	0	0	
Traffic Load	300	3066.48	919945	181.44	54432	
C	Zero Fuel Load Tot (A+B)	2634.39	3321.40	8749855.44	21.46	56539.78
D1	Principal Fuel Tank	400	3916.00	1566400.00	0.00	0.00
D	TOT Fuel Load	400	3916.00	1566400.00	0.00	0.00
E	Trip and Taxi Fuel	517.773	0	1256063.98	0	0
F	Remaining Fuel Load(D-E)	82.23	3774	310336.02	0	0.00
G	TO Mass Tot (C+D)	3034.39	3399.78	10316255.44	18.63	56539.78
H	Final MIX LDG M.& M.	2744.13	3369.77	9247096.28	20.60	56539.78
Helicopter Tecnical Logbook		Standard Variant Id.		Filled up by:		Commander:
HTL n°		Hospital Flight Type		Melillo	Melillo	
Page n°		EMS		Signature:		
Flight n°		BASE ELISOCORSO DI:		Date	04/12/2014	

OPERATIVE FLIGHT PLAN

DEPARTURE BASE AND ENROUTE DATA				PRUA	FREQ. RADIO AIDS		SELECT AWG SPEED: 130	
INS. W.P. NAME OR ICAO CODE								
DEPT 1° LEG	LIRV			Degrees	TWR 120.5 GND 121.75 VOR DME CIA 110.8 NDB CIA 412 ILS CIA 109.9 C/O118 126.500		LIRA	
	N 42° 25' 49" E 12° 3' 51"			NM				
2° LEG	Napoli			133°				
	N 40° 51' 14" E 14° 15' 2"			136				
3° LEG	LIRV			315°				
	N 42° 25' 49" E 12° 3' 51"			136				
4° LEG	LIRA			148°				
	N 41° 47' 58" E 12° 35' 50"			45				
INFO WAYPOINTS AND ENROUTE NOTES								
AVERAGE CONS kg/min	ESTIMATE ENDURANCE (MINUTES OF FLIGHT)					FLIGHT TIME min		
	INITIAL FUEL LOAD KG		ENDURANCE h min.		Res VFR	Res VFRN	MAX	REST
3.335	400		1	59	27	35	0	0
LEG	(min)	(Kg)	(Kg)	(Kg)	(Kg)	(min)	90	6
N°	E.E.T.	Estimated necessary fuel	Estimated residual fuel	Real residual fuel	Real fuel consumption	E.T.E.	Start up time	Stop time
2	63	210	190	0	0	178	10:27:00	13:25:00
3	63	210	180	0	0	0	00:00:00	00:00:00
4	21	70	110	0	0	0	00:00:00	00:00:00
TOT	147	518	110	0	0	178	TOTAL FLIGHT TIME	
MASS KG		2° LEG		3° LEG		4° LEG		Warnings
ZERO FUEL LOAD		2634.39		2634.39		2634.39		Exceeded limits
RESERVE+CONT. F		77.21		77.21		70.20		Limits ok
RE-FUEL				200		0		FUEL
LOAD (patient)		0		0		0		Fill in flight
RESIDUAL PAY LOAD		140.61		150.72		360.83		Residual P.L. x 3175 Kg
TAKE OFF MASS		3034.39		3024.28		2814.17		TO/LDG Mass OK (3175 Kg) check FM for Cat. A TO/LDGS
LANDING MASS		2824.28		2814.17		2744.13		