



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 | 2198 | 3444.63 | 7571296.48 | 15.76 | 34640.48 | | |
| Pilot mass | 67 | 1385 | 92795 | 335 | 22445 | | |
| Copilot mass | 76 | 1385 | 105260 | -325 | -24700 | | |
| Consumable loads | 10 | 4280 | 42800 | 0 | 0 | | |
| Dry operating Mass | 2351 | 3322.91 | 7812151.48 | 13.78 | 32385.48 | | |
| B | 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 | 32 | 2690.75 | 86104 | -281.25 | -9000 | |
| | Baggage Load | 47.5 | 5767 | 273932.5 | 0 | 0 | |
| | Rescue Hoist Load | 0 | 3190 | 0 | 953.5 | 0 | |
| | Floats (57,54) | 0 | 3543 | 0 | 0 | 0 | |
| | Traffic Load | 302.5 | 3383.05 | 1023372.5 | 224.57 | 67932 | |
| C | Zero Fuel Load Tot (A+B) | 2653.50 | 3329.76 | 8835523.98 | 37.81 | 100317.48 | |
| 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 | 483.57500011444 | 0 | 0.00 | 0 | 0.00 | |
| F | Remaining Fuel Load(D-E) | 311.42 | 3825 | 1191181.50 | 0.000 | 0.00 | |
| G | TO Mass Tot (C+D) | 3053.50 | 3406.56 | 10401923.98 | 32.85 | 100317.48 | |
| H | Final MIX LDG M.& M. | 2974.93 | 3406.65 | 10134559.93 | 33.72 | 100317.48 | |
| 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 | 06/12/2014 | | |

OPERATIVE FLIGHT PLAN

SELECT AWG SPEED: 120

| DEPARTURE BASE AND ENROUTE DATA | | PRUA | FREQ. RADIO AIDS | INS. W.P. NAME OR ICAO CODE |
|---------------------------------|-----------------------------|---------|------------------|-----------------------------|
| DEPT | LIRV | Degrees | | |
| | N 42° 25' 49" E 12° 3' 51" | NM | | |
| 1° LEG | LIRG | 131° | | |
| | N 41° 59' 46" E 12° 44' 5" | 40 | | |
| 2° LEG | LIRN | 133° | | |
| | N 40° 53' 6" E 14° 17' 30" | 96 | | |
| 3° LEG | LICA | 142° | | |
| | N 38° 54' 28" E 16° 14' 30" | 149 | | |

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 | 34 | 0 | 0 |
| LEG | (min) | (Kg) | (Kg) | (Kg) | (Kg) | (min) | 216 | 69 |
| N° | E.E.T. | Estimated necessary fuel | Estimated residual fuel | Real residual fuel | Real fuel consumption | E.T.E. | Start up time | Stop time |
| 1 | 20 | 67 | 333 | 0 | 0 | 0 | 00:00:00 | 00:00:00 |
| 2 | 48 | 160 | 295 | 0 | 0 | 0 | 00:00:00 | 00:00:00 |
| 3 | 74 | 247 | 321 | 0 | 0 | 0 | 00:00:00 | 00:00:00 |
| TOT | 142 | 484 | 321 | 0 | 0 | 0 | TOTAL FLIGHT TIME | |

| MASS KG | DEPT | 1° LEG | 2° LEG | Warnings |
|--------------------------|---------|---------|---------|--|
| ZERO FUEL LOAD | 2653.5 | 2653.5 | 2653.5 | Exceeded limits |
| RESERVE+CONT. F | 70.04 | 74.70 | 79.04 | Limits ok |
| RE-FUEL | | 122 | 273 | FUEL |
| LOAD (patient) | 0 | 0 | 0 | Fill in flight |
| RESIDUAL PAY LOAD | 121.5 | 66.2 | -46.72 | Residual P.L. x 3175 Kg |
| TAKE OFF MASS | 3053.50 | 3108.8 | 3221.72 | TO/LDG Mass OK (3175 Kg) check FM for Cat. A TO/LDGS |
| LANDING MASS | 2986.8 | 2948.72 | 2974.93 | |