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### 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	2181.4	3479	7589090.6	2	4362.8	
Pilot mass	85	1385	117725	335	28475	
Copilot mass	85	1385	117725	-325	-27625	
Consumable loads	10	4280	42800	0	0	
<b>Dry operating Mass</b>	<b>2361.4</b>	<b>3331.64</b>	<b>7867340.6</b>	<b>2.21</b>	<b>5212.8</b>	
Spinning seat (DOCTOR)	95	2210	209950	304.8	28956	
Right fixed seat (ASSISTANT)	98	3492	342216	450	44100	
Central fixed seat	0	3492	0	0	0	
Stretcher section	0	2869	0	-450	0	
<b>Passengers Load</b>	<b>193</b>	<b>2860.96</b>	<b>552166</b>	<b>378.53</b>	<b>73056</b>	
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	
<b>Traffic Load</b>	<b>272.5</b>	<b>3347.53</b>	<b>912202.5</b>	<b>235.07</b>	<b>64056</b>	
<b>C</b>	<b>Zero Fuel Load Tot (A+B)</b>	<b>2634</b>	<b>3333.29</b>	<b>8779543.10</b>	<b>26.30</b>	<b>69268.80</b>
<b>D1</b>	<b>Principal Fuel Tank</b>	<b>450</b>	<b>3951.00</b>	<b>1777950.00</b>	<b>0.00</b>	<b>0.00</b>
<b>D</b>	<b>TOT Fuel Load</b>	<b>450</b>	<b>3951.00</b>	<b>1777950.00</b>	<b>0.00</b>	<b>0.00</b>
<b>E</b>	<b>Trip and Taxi Fuel</b>	<b>133</b>	<b>3630</b>	<b>483516</b>	<b>0.000</b>	<b>0</b>
<b>F</b>	<b>Remaining Fuel Load(D-E)</b>	<b>317</b>	<b>3833</b>	<b>1214294.40</b>	<b>0.000</b>	<b>0.00</b>
<b>G</b>	<b>TO Mass Tot (C+D)</b>	<b>3084</b>	<b>3423.42</b>	<b>10557493.10</b>	<b>22.46</b>	<b>69268.80</b>
<b>H</b>	<b>Final MIX LDG M.&amp; M.</b>	<b>2962</b>	<b>3409.14</b>	<b>10096181.90</b>	<b>23.39</b>	<b>69268.80</b>
<b>Helicopter Tecnical Logbook</b>		<b>Standard Variant Id.</b>	<b>Filled up by:</b>		<b>Commander:</b>	
<b>HTL n°</b>		<b>Hospital Flight Type</b>	Romagnoli	Romagnoli		
<b>Page n°</b>		<b>EMS</b>	Signature:			
<b>Flight n°</b>		<b>BASE ELISOCORSO DI:</b>		<b>Date</b>	28/08/2016	

### OPERATIVE FLIGHT PLAN

SELECT AWG SPEED:  
120

DEPARTURE BASE AND ENROUTE DATA		PRUA	FREQ. RADIO AIDS	INS. W.P. NAME OR ICAO CODE
<b>DEPT</b>	LIRV	Degrees		
	N 42° 25' 48" E 12° 3' 50"	NM		
<b>1° LEG</b>	PRIMARIO	109°		
	N 42° 23' 23" E 12° 12' 12"	7		
<b>2° LEG</b>	ROMA H GEMELLI	160°		
	N 41° 56' 7" E 12° 25' 55"	29		
<b>3° LEG</b>	LIRV	331°		
	N 42° 25' 49" E 12° 3' 51"	34		

#### 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
3.6	450		2	5	22	23	103	69
LEG	(min)	(Kg)	(Kg)	(Kg)	(Kg)	(min)	0	0
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	3	11	439					
2	14	50	389					
3	17	61	328					
<b>TOT</b>	<b>34</b>	<b>133</b>	<b>328</b>				<b>TOTAL FLIGHT TIME</b>	

MASS KG	DEPT	1° LEG	2° LEG	Warnings
<b>ZERO FUEL LOAD</b>	2633.9	2733.9	2633.9	Exceeded limits
<b>RESERVE+CONT. F</b>	72.54	74.52	75.06	Limits ok
RE-FUEL		0	0	FUEL
<b>LOAD (patient)</b>	0	100	0	Fill in flight
<b>RESIDUAL PAY LOAD</b>	91	2	152	Residual P.L. x 3175 Kg
<b>TAKE OFF MASS</b>	3084	3173	3023	TO/LDG Mass OK (3175 Kg) check FM for Cat. A TO/LDGS
<b>LANDING MASS</b>	3073	3123	2962	