

Appendix number 1 - Required Configuration of the Helicopter

Required Configuration of the Helicopter for Night Rescue Missions of the Integrated Rescue Service of the Czech Republic	
Requirement	
1	The helicopter must be twin engine Category A performance
2	The helicopter must be certified according to civil regulations
3	The helicopter must be able to accomplish following typical mission: Rescue mission during day or night for the Integrated Rescue System of the Czech Republic. On board there will be 2 pilots, 1 hoist operator, 2 paramedics, 160 kg of rescue equipment (located directly in the passenger cabin), at least 2 rescued people and fuel for 2 hour mission. The searchlight (refer to 4.11), hoist (refer to 4.12), external load suspension kit (refer to 4.13) and rappelling device (refer to 4.15) must be installed.
4	Required equipment:
4.1	IFR instruments and autopilot
4.2	Comm radios with 8,33 kHz channel spacing
4.3	Mode S transponder with ADS-B
4.4	TAS or TCAS
4.5	GPS with mapping touchscreen
4.6	Moving map system with street database of the Czech Republic
4.7	Direction Finder with SAR frequencies and option of other user frequencies
4.8	FADEC with engine monitoring system
4.9	NVG compatibility of the cockpit and passenger cabin
4.10	NVG compatibility of external lighting (position lights, anticollision lights, landing and searchlight)
4.11	Suitably located powerfull searchlight with IR filter for the lighting of the rescue scene
4.12	External hoist with minimum load capacity of 250 kg located on the right side of the helicopter
4.13	External load suspension kit with minimum load capacity of 1500 kg
4.14	Provisions for installation of firefighting Bambi Bucket with minimum volume of 800 l and release control system
4.15	Retractable rappelling device on both sides of the helicopter
4.16	Skid type landing gear
4.17	Standard seat configuration of the passenger cabin with possibility of quick reconfiguration to rescue version