APPLICATION FOR OPERATIONAL AUTHORISATION
- ANNEX UAS -

Direction de l'Aviation Civile
Grand-Duché de Luxembourg

Depending on the level of the risk of the operation, the technical characteristics of the UAS may play an important role in mitigating the risk. In that case, the UAS operator may provide additional information to the NAA on the characteristics of the UAS to be operated. The NAA will, in any case, ask for additional data when needed.

LANDING GEAR			
	☐ YES ☐ NO		
Type	☐ Fixed ☐ Retractable ☐ Other		
Characteristics	☐ Wheels ☐ Skids ☐ Legs ☐ Other		
CONSPICUITY CHARACTERISTICS (2)			
Paint (1):			
Lights (2)	☐ YES ☐ NO	Intensity:	
Aircraft visibility lights:			
Control lights (flight mode or alert indicators, etc…):			
PROPULSION (3)			
☐ Electrical ☐ Combustion ☐ Hybrid ☐ Other			
Description:	NOTE: Provide a brief description (E.g. push/pull systems, coaxial systems in case of multirotors, combined systems, etc…).		
SYSTEMS			
☐ Propellers ☐ Turbines ☐ Other			
Description:			
Control and/or positionning system (4)			
FLIGHT CONTROLLER (5)			
Manufacturer:			
Model:			
Description:			
FLIGHT TERMINATION SYSTEM (6)			
Description:			
FLIGHT MODES (7)			
Description:			
GROUND STATION CONTROL (8)			
Radio Emitter:			
Manufacturer:			
Model:			

Mobile/computer application:	
Manufacturer:	
Model:	
Other:	
Manufacturer:	
Model:	
CONTROL COMMUNICATION LINK	
Description (frequency):	
TELEMETRY COMMUNICATION LINK	☐ YES ☐ NO
Description (frequency):	
VIDEO SYSTEM COMMUNICATION LINK (FPV)	☐ YES ☐ NO
Description (frequency):	
PAYLOAD COMMUNICATION LINK	☐ YES ☐ NO
Description (frequency):	
PAYLOAD (9)	
☐ YES ☐ NO	
TYPE	
☐ FIXED ☐ INTERCHANGEABLE	
Description:	
OPERATION LIMITS (10)	
Maximum Operating Height:	
Max Airspeed:	
Weather conditions:	
SAFETY SYSTEMS / SAFETY NETS AND AWARENESS (11)	
DETECT AND AVOID	☐ YES ☐ NO
Description:	
GEO FENCING OR GEO CAGING	☐ YES ☐ NO
Description:	
TRANSPONDER	☐ YES ☐ NO
Description:	
SYSTEMS FOR LIMITING IMPACT ENERGY	☐ YES ☐ NO
Description:	
OTHER	☐ YES ☐ NO
Description:	

Instructions for filling in the form

(1) PAINT
Describe any painted elements that are visible (marks) and significant (colour, shape, etc.).
(2) LIGHTS
Describe the lights, including their colours and locations.
(3) PROPULSION
Mark the type of propulsion used, indicating (in the space provided) the manufacturer and model, and detailing relevant information such as the number of motors/engines, the configuration, etc. Powerplant design diagrams may be attached if necessary.
(4) CONTROL AND/OR POSITIONING SYSTEM
As a general instruction for this section, in addition to the description and information deemed necessary to define these systems, provide any certification and rating for the systems, such as those related to electromagnetic compatibility or any other European Directive satisfied by the equipment installed on the aircraft, for consideration during the specific risk assessment conducted using the specific operations risk assessment (SORA) or any other SMS methodology to evaluate and authorise operations.
(5) FLIGHT CONTROLLER
Indicate the manufacturer and model of the flight controller. Describe the relevant aspects affecting flight safety.
(6) FLIGHT TERMINATION SYSTEM
Describe and include the technical characteristics of the system, its modes of operation, system activation and any certification and rating for the components, as well as proof of its electromagnetic compatibility for consideration during the SORA or any other SMS methodology that is followed to evaluate and authorise operations.
(7) FLIGHT MODES
Describe the flight modes (i.e. manual, artificial stability with controller, automatic, autonomous). For each flight mode, describe the variable that controls the aircraft: increments in position, speed control, attitude control, type of altitude control (which sensor is used for this purpose), etc.
(8) GROUND CONTROL STATION
For 'encrypted' links, describe the encryption system used, if any.
(9) PAYLOAD
Describe each of the different payload configurations that affect the mission or that, without changing it, impact the weight and balance, the electrical charge or the flight dynamics. Include all relevant technical details. If needed, you may use other documents that provide the specified details.
(10) OPERATION LIMITS
Describe in this section the maximum operating height, the maximum airspeed (including Vmax ascent, Vmax descent and Vmax horizontal), and, in addition, the meteorological limit conditions in which the UAS can operate (e.g. rain, maximum wind, etc.)
(11) SAFETY SYSTEMS/SAFETY NETS AND AWARENESS
Describe the systems or equipment installed on the aircraft to mitigate potential operational safety risks, whether included in the form or not.