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SUBJECT : **Ground Control Station Electrical Systems**

CERTIFICATION SPECIFICATION : CS-VLA

PRIMARY GROUP / PANEL : 5 (Electrical systems)

SECONDARY GROUPE / PANEL : All systems

NATURE : SC

SPECIAL CONDITION

Ground Control Station Electrical Systems

(a) Ground Control Station Electrical Systems

- 1) Each electrical system in the ground control station must be:
 - a. Free from hazards in itself, in its method of operation, and in its effects on other parts of the ground control station
 - b. So designed that the risk of electrical shock to UAV crew in the ground control station and other ground personnel is reduced to a minimum.
 - c. Designed to be protected against Electrostatic, Lightning and HIRF hazards.
- 2) The global electrical heat emission must be taken into account in the design of the ground control station

(b) Ground Control Station Power Supply

- 1) The GCS power supply must be designed such that the operations in normal and failure conditions shall not lead to an unsafe condition; the corresponding minimum GCS power required must be stated in the UAV system operating manual.
- 2) A warning which is unambiguous and clearly distinguishable to the UAS crew shall be immediately provided for any control station power supply failure which could result in an unsafe condition in any phase of UAS flight, including landing and take off
- 3) The parameters (e.g. size, temperature, power supply, earth bonding, ...) deemed as essential for flight safety and defining the infrastructure convenient for the ground control station must be stated in the UAV System Flight Manual

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(c) Electrical Systems Warning and Indication

- 1) A means must exist in the control station to indicate to the UAV Ground Crew the electric power system quantities essential for safe operation
- 2) There must be a means to give immediate warning to the UAV Ground Crew of a failure of any UA electrical power generating device.