| PDRA characterisation and conditions |
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| **Topic** | **Method of proof** | **Condition** | **Integrity[[1]](#footnote-1)** | **Proof21** |
| 1. Operational characterisation (scope and limitations) |
| **Level of human intervention** | Self-declaration | 1. No autonomous operations: the remote pilot should have the ability to maintain control of the UA, except in case of a loss of the command-and-control (C2) link.
 | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 1. The remote pilot should always be able to terminate the flight.
 | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 1. Either the flight path should be preprogrammed or flexible routes should be preplanned to ensure the UA avoids obstacles in the operational volume.
 | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 1. The remote pilot should only operate one UA at a time.
 | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 1. The remote pilot should not operate the UA from a moving vehicle.
 | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 1. The remote pilot should not hand the control of the UA over to another command unit.
 | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| **UA range limit**  | Self-declaration | 1. Launch/recovery: at VLOS distance from the remote pilot, if not operating from a safe prepared area.

*Note: ‘Safe prepared area’ means a controlled ground area that is suitable for the safe launch/recovery of the UA*. | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 1. In flight: The range limit should be within the C2 link direct coverage which ensures the safe conduct of the flight.
 | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| **Overflown areas** | Declaration supported by data | 1. UAS operations should be conducted:
 |  |  |
| 1.9.1 over sparsely populated areas, and | *Please include a reference to the relevant chapter/section of the OM where the procedures for determining the population density are provided.* | ‘I declare compliance.’*Please describe how the population density data is identified.* |
| 1.9.2 over or up to 15 m horizontal distance from a facility or infrastructure at the request of the person or entity that is responsible for that facility or infrastructure. | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| **UA limitations** | Self- declaration | 1. Maximum characteristic dimensions (e.g. wingspan, rotor diameter/area or maximum distance between rotors in the case of a multirotor): up to 3 m
 | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 1. Typical kinetic energy: up to 34 kJ
 | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| **Flight height limit**  | Self-declaration | 1. The maximum height of the operational volume should not be greater than the size of the reserved or segregated airspace, if applicable, or the height defined according to para 3.9.

*Note: See point 3.10 defining the air risk buffer to be considered.* | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| **Airspace** | Self-declaration | 1. The UA should be operated:

*(refer also to point 3.9)* |  |  |
| 1.13.1 in ‘atypical airspace’ that is included in uncontrolled airspace;  | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 1.13.2 in controlled airspace which the competent authority has defined it meets ‘atypical airspace’ requirements and with the relevant coordination as defined by competent authority; or | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| **Visibility** | Self-declaration | 1. If take-off and landing are conducted in VLOS of the remote pilot, the visibility should be sufficient to ensure that no people are in danger during the take-off /landing phase. The remote pilot should abort the take‑off or landing in case people on the ground are in danger.
 | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| **Others** | Self-declaration | 1. The UA should not be used to drop material or to carry dangerous goods, except for dropping items in connection with agricultural, horticultural or forestry activities where the carriage of such items does not contravene any applicable regulations.
 | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |

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| **2. Operational risk classification (according to the classification defined in AMC1 to Article 11 of the UAS Regulation)**  |
| **Final GRC** | **3** | **Final ARC** | **ARC-a** | **SAIL** | **II** |

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| **3. Operational mitigations**  |
| **Operational volume (see Figure 2 of AMC1 Article 11)** | Self-declaration | 1. To determine the operational volume, the UAS operator should consider the position-keeping capabilities of the UAS in 4D space (latitude, longitude, height, and time).
 | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 1. In particular, the accuracy of the navigation solution, the flight technical error of the UAS and the path definition error (e.g. map error) and latencies should be considered and addressed when determining the operational volume.
 | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 1. The remote pilot should apply the emergency procedures as soon as there is an indication that the UA may exceed the limits of the operational volume.
 | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| **Ground risk** | Self-declaration | 1. The UAS operator should establish a ground risk buffer to protect third parties on the ground outside the operational volume.
 | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 3.4.1 The default criterion should be the use of the ‘1:1 rule’ (e.g. if the UA is planned to operate at a height of 25 m, the ground risk buffer should at least be 25 m).  | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 3.4.2  A smaller ground risk buffer value may be applied by the applicant for a rotary wing UA using a ballistic methodology approach acceptable to the competent authority. The 1:1 rule may in certain cases not be sufficient to meet the target level of safety. In such a case, the competent authority may ask for a refinement of the definition of the ground risk buffer, based on criteria defined in SORA Step #9 depending on the adjacent air and ground risks. | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 1. The operational volume and the ground risk buffer should be all contained in a sparsely populated area.
 | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 1. The UAS operator should evaluate the area of operations, typically by means of on-site inspection or appraisal, and should be able to justify the significantly lower density of people at risk than in sparsely populated areas within the entire operational volume including the ground risk buffer.
 | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 1. The UAS operator should ensure that the person or entity responsible for the facility or infrastructure has taken the necessary measures to protect the uninvolved persons present within the limits of the facility or infrastructure during the UAS operation.
 | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 1. The UAS operator should include points 3.4 to 3.7 in the Operations Manual (OM) (see point 4.1.1) and declare compliance with those conditions.
 | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| **Air risk** | Self-declaration | 1. The UAS operation should be conducted:

3.9.1 in ‘atypical airspace’ which, for the purpose of this PDRA, is one of the following:3.9.1.1 in reserved or segregated airspace; the claim for ARC-a is met if a reserved or segregated airspace is established and approved for the purpose of conducting UAS operations under this PDRA, with the operational volume and air risk buffer, if applicable, being entirely contained in that reserved or segregated airspace;3.9.1.2 at a height of the flight geography of less than 30 m;3.9.1.3 when operating in the proximity of natural or artificial obstacles (e.g. trees, buildings, towers, cranes, fences, power lines, etc.) whose height is below 20 m, keeping the UA within the following distances:(i) 30 m horizontal distance;(ii) 30 m vertical distance from the top of the overflown obstacle; 3.9.1.4 when operating in the proximity of natural or artificial obstacles (e.g. trees, buildings, towers, cranes, fences, power lines, etc.) whose height is above 20 m, keeping the UA within the following distances:(i) 30 m horizontal distance;(ii) 15 m vertical distance from the top of the overflown obstacle; 3.9.2 away from all of the following:(i) any known permanent or temporary take-off and landings areas for all types of manned aircraft; this also includes parking lots, parks and other areas where helicopters occasionally operate from, as well as sites where police and helicopter emergency medical services (HEMS), and search and rescue (SAR) helicopters occasionally operate from in cases of accidents or other emergencies;(ii) known military aircraft low-flying routes;(iii) any other known low-level manned aircraft operations in the intended area of operation (e.g. balloon operations authorised en route below 500 ft);(iv) harbour/coastal areas where SAR operations may transit or operate;(v) any known areas where other unmanned aircraft operate (including areas for model aircraft clubs or associations); or | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 1. The UAS operator should establish an air risk buffer to protect third parties in the air, outside the operational volume, if:

3.10.1 airspace classified as ARC-d is adjacent to the operational volume; or3.10.2 the competent authority or the entity responsible for the airspace management considers it necessary to require that the protection of third parties in the air be ensured. | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 1. The air risk buffer as per point 3.10 should be contained where the probability of encounter with manned aircraft and other airspace users is low, as defined by the competent authority.
 | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 1. Before the flight, the UAS operator should assess the proximity of the planned UAS operation to manned aircraft activity.
 | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| **Observers** | n/a |

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| **4. UAS operator and UAS operations conditions** |
| **UAS operator and UAS operations** | Declaration supported by data | 1. The UAS operator should:
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| 4.1.1 develop an operations manual (OM) (for the template, refer to AMC1 UAS.SPEC.030(3)(e) and to the complementary information in GM1 UAS.SPEC.030(3)(e)); | *Please describe how this condition is met.* | ‘I declare compliance and that supporting evidence is included in the OM.’ |
| 4.1.2 develop a procedure to ensure that the security requirements applicable to the area of operations are complied with during the intended operation; | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance and that supporting evidence is included in the OM.’ |
| 4.1.3 develop measures to protect the UAS against unlawful interference and unauthorised access; | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance and that supporting evidence is included in the OM.’ |
| 4.1.4 develop procedures to ensure that all operations comply with the Data Protection Act on the protection of natural persons with regard to the processing of personal data and on the free movement of such data. In particular, the UAS operator should carry out a data protection impact assessment, when this is required by the data protection office; | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance and that supporting evidence is included in the OM.’ |
| 4.1.5 develop guidelines for its remote pilots to plan UAS operations in a manner that minimises nuisance, including noise and other emissions-related nuisance, to people and animals; | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance and that supporting evidence is included in the OM.’ |
| 4.1.6 develop an emergency response plan (ERP) in accordance with the conditions for a ‘medium’ level of robustness (please refer to AMC3 UAS.SPEC.030(3)(e); | *Please describe how this condition is met.* | ‘I declare compliance and that supporting evidence is included in the OM.’ |
| 4.1.7 validate the operational procedures in accordance with the provisions for a ‘medium’ level of robustness included in AMC2 UAS.SPEC.030(3)(e); | *Please describe how this condition is met.* | ‘I declare compliance and that the description for meeting this condition is available to the competent authority for review.’ |
| 4.1.8 ensure the adequacy of the contingency and emergency procedures and prove it through any of the following:(a) dedicated flight tests; (b) simulations, provided that the representativeness of the simulation means is proven for the intended purpose with positive results; (c)  any other means acceptable to the competent authority; | *Please describe how this condition is met.* | ‘I declare compliance and that the description for meeting this condition is available to the competent authority for review.’ |
| 4.1.9 have a policy that defines how the remote pilot and any other personnel in charge of duties essential to the UAS operation can declare themselves fit to operate before conducting any operation; | *Please describe how this condition is met.* | ‘I declare compliance and that the description for meeting this condition is available to the competent authority for review.’ |
| 4.1.10 if the operation takes place in reserved or segregated airspace, as part of the procedures that are contained in the OM (point 4.1.1 above), include the description of the following: |  |  |
| (a) the method and means of communication with the authority or entity that is responsible for the management of the airspace during the entire period of the reserved or segregated airspace being active, as mandated by the authorisation;*Note: The communication method should be published in the notice to airmen (NOTAM), which activates the reserved airspace to also allow coordination with manned aircraft.* | *Please describe how this condition is met.* | ‘I declare compliance and that evidence is available to the competent authority for review.’ |
| (b) the personnel in charge of duties essential to the UAS operation, who are responsible for establishing that communication; | *Please describe how this condition is met.* | ‘I declare compliance and that evidence is available to the competent authority for review.’ |
| 4.1.11 designate for each flight a remote pilot with adequate competency and other personnel in charge of duties essential to the UAS operation if needed; | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance and that supporting evidence is included in the OM.’ |
| 4.1.12  ensure that the UAS operation effectively uses and supports the efficient use of the radio spectrum in order to avoid harmful interference; | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance and that supporting evidence is included in the OM.’ |
|  |  | 4.1.13 keep for a minimum of 3 years and maintain up to date a record of the information on UAS operations, including any unusual technical or operational occurrences and other data as required by the declaration or by the operational authorisation. | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance and that record-keeping data is available to the competent authority.’ |
| **UAS maintenance** | Self-declaration | 1. The UAS operator should:
 |  |  |
| 4.2.1 ensure that the UAS maintenance instructions that are defined by the UAS operator are included in the OM and cover at least the UAS manufacturer’s instructions and requirements, when applicable; and | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 4.2.2 ensure that maintenance staff follow the UAS maintenance instructions when performing maintenance; | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 4.2.3 keep for a minimum of 3 years and maintain up to date a record of the maintenance activities conducted on the UAS; | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 4.2.4 establish and keep up to date a list of the maintenance staff employed by the operator to carry out maintenance activities; | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 4.2.5 comply with point UAS.SPEC.100, if the UAS uses certified equipment. | *Please include a reference to the relevant chapter/section of the OM or indicate ‘n/a’.* | ‘I declare compliance.’ or ‘n/a’ |
| **External services** | Self-declaration | 4.3 The UAS operator should ensure that the level of performance for any externally provided service necessary for the safety of the flight is adequate for the intended operation. The UAS operator should declare that this level of performance is adequately achieved. | *Please describe how this condition is met.* | ‘I declare compliance.’ |
| 4.4 The UAS operator should define and allocate the roles and responsibilities between the UAS operator and the external service provider(s), if applicable. | *Please describe how this condition is met.* | ‘I declare compliance.’ |
| **5. Conditions for the personnel in charge of duties essential to the UAS operation** |
| **General** | Self-declaration | 5.1 The UAS operator should ensure that all personnel in charge of duties essential to the UAS operation are provided with competency-based theoretical and practical training specific to their duties, which consists of theoretical elements defined in AMC1 UAS.SPEC.050(1)(d) and practical elements defined in AMC2 UAS.SPEC.050(1)(d).  | *Please describe how this condition is met.* | ‘I declare compliance.Evidence of training is available for inspection at the request of the competent authority or its authorised representative.The training programme is documented in the OM.’ |
| 5.2 The UAS operator should keep and maintain up to date a record of all the relevant qualifications and training courses completed by the remote pilot and the other personnel in charge of duties essential to the UAS operation and by the maintenance staff for at least 3 years after those persons have ceased to be employed by the organisation or have changed position within the organisation. | *Please describe how this condition is met.* | ‘I declare compliance.Record-keeping data is available for inspection at the request of the competent authority.’ |
| **Remote pilot** | Self-declaration | 5.3 The remote pilot has the authority to cancel or delay any or all flight operations under the following conditions:  | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 5.3.1 the safety of persons is jeopardised; | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 5.3.2 property on the ground is jeopardised;  | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 5.3.3 other airspace users are in jeopardy; | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 5.3.4 there is a violation of the terms of the operational authorisation.  | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 5.4 The remote pilot should: |  |  |
| 5.4.1    not perform any duties under the influence of psychoactive substances or alcohol, or when they are unfit to perform their tasks due to injury, fatigue, medication, sickness or other causes; | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 5.4.2 be familiar with the manufacturer’s instructions provided by the manufacturer of the UAS; | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 5.4.3    obtain updated information relevant to the intended operation about any geographical zones defined in accordance with Article 15 of the UAS Regulation; and | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 5.4.4 ensure that the UAS is in a safe condition to complete the intended flight safely and, if applicable, check whether the direct remote identification is active and up to date. | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| **Multi-crew cooperation (MCC)** | Self-declaration | 5.5. Where multi-crew cooperation (MCC) is required, the UAS operator should:  |  |  |
| 5.5.1 designate the remote pilot-in-command to be responsible for each flight; | *Please include a reference to the relevant chapter/section of the OM, otherwise indicate ‘n/a’.* | ‘I declare compliance.’ or ‘n/a’ |
| 5.5.2 include procedures to ensure the coordination between the remote crew members with robust and effective communication channels; those procedures should cover as a minimum the following: | *Please include a reference to the relevant chapter/section of the OM, otherwise indicate ‘n/a’.* | ‘I declare compliance.’ or ‘n/a’ |
| 5.5.2.1 the assignment of tasks to the remote crew members; and | *Please include a reference to the relevant chapter/section of the OM, otherwise indicate ‘n/a’.* | ‘I declare compliance.’ or ‘n/a’ |
| 5.5.2.2 the establishment of step-by-step communication; and | *Please include a reference to the relevant chapter/section of the OM, otherwise indicate ‘n/a’.* | ‘I declare compliance.’ or ‘n/a’ |
| 5.6 ensure that the training of the remote crew covers MCC. | *Please include a reference to the relevant chapter/section of the OM, otherwise indicate ‘n/a’.* | ‘I declare compliance.’ or ‘n/a’ |
| **Maintenance staff** | Self-declaration | 5.7 Any staff member authorised by the UAS operator to perform maintenance activities should have been duly trained regarding the documented maintenance procedures.  | *Please describe how this condition is met.* | ‘I declare compliance.Evidence of training is available at the request of the competent authority or its authorised representative.’  |
| **Personnel in charge of duties essential to the UAS operation are fit to operate** | Self-declaration | 5.8 The personnel in charge of duties essential to the UAS operation should declare that they are fit to operate before conducting any operation based on the policy defined by the UAS operator. | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |

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| **6. Technical conditions** |
| **General** | Self-declaration | 6.1 The UAS should be equipped with means to monitor the critical parameters for a safe flight, and in particular the following: |  |  |
| 6.1.1 UA position, height or altitude, ground speed or airspeed, attitude, and trajectory; | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 6.1.2 UAS energy status (fuel, battery charge, etc.); and | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 6.1.3 the status of critical functions and systems; as a minimum, for services based on RF signals (e.g. C2 link, GNSS, etc.), means should be provided to monitor the adequate performance and trigger an alert when the performance level becomes too low. | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 6.2 The UAS performance and in particular its capability to keep the position in 4D space (latitude, longitude, height, and time) should be such that allows the remote pilot to conduct safely operations close to natural or artificial obstacles.*Note: The UA should be able to fly safely at a distance closer than 30 m to artificial or natural obstacles.*  | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 6.3  The UAS should provide means to programme the UA flight path prior to take-off, or if utilising flexible routes, be equipped with means to avoid obstacles while staying within the intended operational volume.  | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 6.3.1. If flexible routes are utilised, the UAS should provide means to prevent the UA from breaching the horizontal and vertical limits of a programmable operational volume. | *Please include a reference to the relevant chapter/section of the OM, otherwise indicate ‘n/a’.* | ‘I declare compliance.’ |
| 6.4 The UAS should be protected against potential electromagnetic interferences from the infrastructure/facilities in the overflown area. | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| **Human–machine interface (HMI)** | Self-declaration | 6.5 The UAS information and control interfaces should be clearly and succinctly presented and should not confuse, cause unreasonable fatigue, or contribute to causing any disturbance to the personnel in charge of duties essential to the UAS operation such that this could adversely affect the safety of the operation. | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 6.6 The UAS operator should conduct a UAS evaluation that considers and addresses human factors to determine whether the HMI is appropriate for the operation. | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| **C2 links and communication** | Self-declaration | 6.7 The UAS should comply with the appropriate requirements for radio equipment and the use of the RF spectrum. | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 6.8    Protection mechanisms against interference should be used, especially if unlicensed bands (e.g. ISM) are used for the C2 link (mechanisms such as FHSS, DSSS or OFDM technologies, or frequency deconfliction by procedure). | *Please include a reference to the relevant chapter/section of the OM.* | ‘I declare compliance.’ |
| 6.9   The UAS should be equipped with a C2 link that is protected against unauthorised access to the C2 functions. | *Please include a reference to the relevant chapter/section of the OM.* | *‘I declare compliance.’* |
| 6.10  In case of a loss of the C2 link, the UAS should have a reliable and predictable method for the UA to recover the C2 link or terminate the flight in a way that reduces the effect on third parties in the air or on the ground. | *Please include a reference to the relevant chapter/section of the OM.* | *‘I declare compliance.’* |
| 6.11  In the event of an emergency, the remote pilot should have effective means to communicate with the relevant bodies. | *Please include a reference to the relevant chapter/section of the OM.* | *‘I declare compliance.’* |
| **Tactical mitigation**  |  | n/a |  |  |
| **Containment** | Declaration supported by data | 6.12 To ensure a safe recovery from a technical issue that involves the UAS or an external system that supports the operation, the UAS should comply with the following basic containment provisions: |  |  |
| 6.12.1 no probable failure of the UAS or any external system that supports the operation should lead to operation outside the operational volume; and | *Please describe how this condition is met.* | ‘n/a since enhanced containmentapplies.’or‘I declare compliance.A design and installation appraisal is available, and covers at least the following:* the design and installation features (independence, separation, and redundancy); and
* the particular risks (e.g. hail, ice, snow, electromagnetic interference, etc.) relevant to the type of operation.’
 |
| 6.12.2 it is reasonably expected that a fatality will not occur from any probable failure of the UAS, or any external system that supports the operation.*Note: The term ‘probable’ should be understood in its qualitative interpretation, i.e. ‘anticipated to occur one or more times during the entire system/operational life of an item’.* | *Please describe how this condition is met.* |
| Declaration supported by data | 6.13 The following enhanced containment conditions should apply if the adjacent area includes an assembly of people or if the adjacent airspace is classified as ARC-c or ARC-d (in accordance with SORA): |  |  |
| 6.13.1 The UAS should be designed to standards that are considered adequate by the competent authority and/or in accordance with a means of compliance that is acceptable to that authority such that: | *Please include a reference to the relevant chapter/section of the OM or indicate ‘n/a’.* | ‘N/A since the basic containmentapplies’or‘I declare compliance with MoCLight-UAS.2511.’Analysis and/or test data withsupporting evidence is available.’or‘The UAS has a DVRdemonstrating compliance withLight-UAS.2511. |
| 6.13.1.1 the probability of the UA leaving the operational volume should be less than 10–4/FH; and | *Please include a reference to the relevant chapter/section of the OM or indicate ‘n/a’.* |
| 6.13.1.2 no single failure of the UAS or of any external system supporting the operation should lead to operation outside the ground risk buffer. *Note: The term ‘failure’ should be understood as an occurrence which affects the operation of a component, part, or element such that it can no longer function as intended. Errors may cause failures but are not considered to be failures. Some structural or mechanical failures may be excluded from the criterion if it can be shown that these mechanical parts were designed according to aviation industry best practices.* | *Please include a reference to the relevant chapter/section of the OM or indicate ‘n/a’.* |
| 6.13.2 SW and AEH whose development error(s) could directly lead to operations outside the ground risk buffer should be developed according to an industry standard or methodology that is recognised as adequate by EASA.*Note 1: The proposed additional safety conditions cover both the integrity and the assurance levels.**Note 2: The proposed additional safety conditions do not imply a systematic need to develop the SW and AEH according to an industry standard or methodology recognised as adequate by the competent authority. For instance, if the UA design includes an independent engine shutdown function that systematically prevents the UA from exiting the ground risk buffer due to single failures or an SW/AEH error of the flight controls from occurring, the intent of the conditions of point 6.13.1 above could be considered met.**Note 3: For this PDRA, having adjacent airspace classified as ARC-c like a hospital heliport in uncontrolled airspace is also deemed subject to the above additional conditions (in addition to ARC-d, as per SORA Step #9 (c)).* | *Please include a reference to the relevant chapter/section of the OM or indicate ‘n/a’.* |
| **Remote identification** | Self-declaration | 6.14 The UAS bears a unique serial number compliant with standard ANSI/CTA-2063-A-2019, *Small Unmanned Aerial Systems Serial Numbers*, 2019. | *Please describe how this condition is met.* | ‘I declare compliance.’ |
| 6.15 The UAS is equipped with a remote identification system according to the Civil Aviation (Unmanned Aircraft System) Regulations 2024. | *Please describe how this condition is met.* | ‘I declare compliance.’ |
| **Lights** | Self-declaration | 6.16 If the UAS is operated at night, it is equipped with at least one green flashing light according to point UAS.SPEC.050(1)(l)(i) of the MCAR-UAS. | *Please describe how this condition is met or indicate ‘n/a’.* | ‘I declare compliance.’ or ‘n/a’ |

1. To be filled in the UAS operator. [↑](#footnote-ref-1)