

## (五) MTOW $\geq$ 150 公斤遙控無人機製造品質系統查檢表

查檢表目錄：

[\(A\) 遙控無人機系統品質保證標準規範](#)

[\(B\) 遙控無人機系統生產驗收標準規範](#)

## (五) MTOW≥150 公斤遙控無人機製造品質系統查檢表

### (A) 遙控無人機系統品質保證標準規範

標題列說明，請參閱 AC 107-002A，A2-2 頁

|     | 編號 / 需求<br>Item No. / Requirements  | 適用<br>A<br>/<br>不適<br>用<br>NA | 符合性方法(MOC)             |             |                       |             |                        |             |                        |                        |                        | 符合性聲明<br>Compliance<br>Statement<br>/<br>佐證文件<br>Subst. Doc. |
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| 1   | 品質保證計畫 Quality Assurance Program (QAP)  |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |
| 1.1 | 遙控無人機系統製造商應根據本標準制訂 QAP。<br>Manufacturers of UAS shall develop a QAP in accordance with the criteria established within this standard.   |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |
| 1.2 | 品質保證手冊(QAM)-製造商應依照 QAM 形式文件化其 QAP。<br>Quality Assurance Manual (QAM)-Manufacturers shall document their QAP in the form of a QAM.   |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |
| 1.3 | 品質保證管理-負責實施 QAP 的製造商管理部門，可能由一名或多名公司員工、公司官員或製造商的代理人或授權人，組成品質保證管理的個人或實體，應在 QAM 中有明確陳述。有關 QAP 方法和品質要求、對於供應商方面的要求，亦應於 QAM 中有明確陳述。<br>Quality Assurance Administration-The manufacturer's administration charged with the implementation of the QAP may consist of one or more company employees, company officials, or manufacturer's agents or assigns. The individuals or entities that make up the quality assurance administration shall be identified within the QAM. The QAP methodology and any quality requirements flowing down to suppliers shall be documented in the QAM. |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |
| 1.4 | 品質保證記錄(QAR)-為確保無人機安全操作，應維持並保留有關生產遙控無人機系統組件的接收日期，和原物料來源的記錄。(參考註 1 及 1.4.1 節內容)。  |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |

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|                                    | 註 1-本記錄目的，為製造商提供用以識別確認和減少可能受到需要採取矯正措施的材料異常，影響使用中遙控無人機系統的方法，從而減少此類矯正措施的經濟影響。<br><br>Quality Assurance Record (QAR)-A record shall be maintained of the date of acceptance and the origin of materials used in the production of system components considered by the manufacturer to be required for the safe operation of their UAS (see Note 1 and 1.4.1).<br><br>NOTE 1-The intent of this record is to provide a means for the manufacturer to identify and reduce the number of UAS within a fleet that may be affected by a materials anomaly that would require corrective action, thereby reducing the economic impact of such corrective action. |                               |                |             |               |             |                        |             |                        |                        |  |
| 1.4.1                              | 製造商應為每架生產的遙控無人機系統保持一個 QAR。每份 QAR 應包括以下內容：<br><br>The manufacturer shall maintain a QAR for each UAS produced. Each QAR shall consist of the following:  |                               |                |             |               |             |                        |             |                        |                        |  |
| 1.4.1.1                            | 生產驗收程序中適用的最終檢驗記錄、檢查和生產接收程序及測試文件(見第 4 節)。<br><br>Applicable final inspection records, check, and test documentation from the production acceptance procedures (see Section 4).   |                               |                |             |               |             |                        |             |                        |                        |  |

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| 1.4.1.2                            | 製造商符合性記錄的副本。<br>A copy of the manufacturer's Record of Compliance.  |                               |                |             |               |             |                        |             |                        |                        |                        |  |
| 1.4.1.3                            | 每架遙控無人機系統交付時的構型(為確保持續使用安全之目的)，包括相關的零件清單、已安裝的設備清單、軟體版本、所有工程變更的清單以及與初始設備的任何偏異。<br>註 2-1.4.1 節中列出的每個項目，應包括遙控無人機系統序號和製造日期。<br>The configuration of each UAS at its point of delivery (for continued operational safety monitoring purposes), including associated parts lists, installed equipment lists, software version/versions, and a listing of all engineering changes and any deviations from the initial as designed/as tested configuration.<br>NOTE 2-Each item listed in 1.4.1 shall include the UAS serial number and date of manufacture. |                               |                |             |               |             |                        |             |                        |                        |                        |  |
| 1.5                                | 品質保證修訂-應發展完成系統，以確保只有 QAM 的最新修訂版正在使用中。<br>Quality Assurance Revisions-A system shall be implemented to ensure that only the latest revisions to the QAM are in use.  |                               |                |             |               |             |                        |             |                        |                        |                        |  |
| 1.6                                | 品質保證稽核 - 製造商應對其 QAP 進行每兩年一次的稽核，並保存所有此類稽核的記錄。任何已確認不符合時，應皆需解決改正。若未解決  |                               |                |             |               |             |                        |             |                        |                        |                        |  |

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| 發現的任何異常情況，在必要時亦應對 QAM 進行修訂。<br>Quality Assurance Audits-The manufacturer shall conduct a biennial (every two years) audit of their QAP and maintain a record of all such audits. Any determination of noncompliance shall be resolved and a revision to the QAM shall be made if necessary to address any anomalies found.             |                               |                |             |               |             |                |             |                |                |                |  |
| 2 工程和製造 Engineering and Manufacture  |                               |                |             |               |             |                |             |                |                |                |  |
| 2.1 符合性記錄-製造商應永久保存用於顯示特定構型符合性設計文件之記錄。<br>Record of Compliance-The manufacturer shall keep a permanent record of the design documentation used to show compliance for a particular configuration.   |                               |                |             |               |             |                |             |                |                |                |  |
| 2.2 構型管制-生產中的所有遙控無人機系統構型皆需有記錄，以確保和最新發佈的構型相符合。<br>Configuration Control-All UAS configurations in production shall have Records of Compliance to the latest released revision.  |                               |                |             |               |             |                |             |                |                |                |  |
| 2.3 生產文件-製造商應保存所有生產文件的記錄，包括對生產材料、裝配過程的所有修訂版別。生產文件應包括但不侷限於以下內容：<br>Production Documentation-The manufacturer shall maintain a record of all production documentation, including revisions to both manufacturing material, or assembly processes, or both. Production documentation shall include, but is not limited to, the following: |                               |                |             |               |             |                |             |                |                |                |  |

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| 2.3.1                              | 零件清單<br>Parts lists,   |                               |                |             |               |             |                        |             |                        |                        |                        |  |
| 2.3.2                              | 製程單/生產流程單<br>Process sheets/routings,  |                               |                |             |               |             |                        |             |                        |                        |                        |  |
| 2.3.3                              | 零件和裝配圖<br>Component and assembly drawings,   |                               |                |             |               |             |                        |             |                        |                        |                        |  |
| 2.3.4                              | 製造說明書和規範<br>Manufacturing instructions and specifications,   |                               |                |             |               |             |                        |             |                        |                        |                        |  |
| 2.3.5                              | 工具和量測圖<br>Tooling and gauge drawings,  |                               |                |             |               |             |                        |             |                        |                        |                        |  |
| 2.3.6                              | 軟體<br>Software,  |                               |                |             |               |             |                        |             |                        |                        |                        |  |
| 2.3.7                              | 工具和測試設備校驗文件<br>Tooling and test equipment calibration documentation, and   |                               |                |             |               |             |                        |             |                        |                        |                        |  |
| 2.3.8                              | 製造物料測試<br>Manufacturing material tests.  |                               |                |             |               |             |                        |             |                        |                        |                        |  |
| 2.4                                | 特殊製程-應規劃生產系統，用以管控制造商認為對生產遙控無人機系統結構完整性，具重要的機身零組件生產有關的所有特殊製程，例如熔接、焊接、熱處理、電鍍、結構複合材料、膠合，以及其他適用於遙控無人機系統設計的產品，以確保每個製程和服務的品質，均按照品質標 |                               |                |             |               |             |                        |             |                        |                        |                        |  |

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|                                    | 準規範進行。必須定期檢查或校驗工具、量具，包括遙控無人機系統生產過程中，特殊製程所使用的任何關鍵設備，皆需文件化記載清楚。<br>Special Processes-A system shall be implemented to control all special processes and services related to the production of airframe components considered by the manufacturer to be critical to the structural integrity of the UAS, such as welding, brazing, heat treatment, plating, structural composites, adhesive bonding, and others appropriate to the UAS design, that ensures that each process and service is performed in accordance with approved specifications containing definitive standards of quality. Required periodic inspection or calibration, or both, of tooling, gauges, solutions, or any critical equipment used in special processes related to the production of UAS shall be documented. |                               |                |             |                       |             |                        |             |                        |                        |  |
| 3                                  | 品質保證檢查 QA Inspections   |                               |                |             |                       |             |                        |             |                        |                        |  |
| 3.1                                | 製造商應在 QAP 中完整規劃並文件化檢驗系統，以便執行確認產品是否符合所有的工程要求和生產規格。<br>Manufacturers shall implement and document in the QAP a system of inspections to validate conformity of product to all applicable engineering requirements and production specifications.  |                               |                |             |                       |             |                        |             |                        |                        |  |
| 3.1.1                              | 符合、不符合和等待檢驗的項目，應予以隔離或可明確區分。當發現不符合的物品，應由物料審查委員會(MRB)依 3.3 節內容進行評估或依 3.4  |                               |                |             |                       |             |                        |             |                        |                        |  |

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|                                    | 節判定拒收。<br>Conforming, nonconforming, and items awaiting inspection shall be segregated or clearly distinguishable. Items found to be nonconforming shall either be evaluated by a Materials Review Board (MRB) per 3.3 or rejected per 3.4.  |                               |                |             |               |             |                |             |                |                |                |  |
| 3.2                                | 接收檢驗-製造商應執行採購程序，以確保所有採購的物品都有明確的規定。外部供應商提供的進料物品，應檢查是否符合適用的規格或生產文件，並應永久記錄物料驗收人員。<br>Receiving Inspection-The manufacturer shall implement a purchasing procedure that shall ensure all items ordered are clearly specified. Incoming items provided by outside vendors shall be inspected for conformity to applicable specifications or production documentation or both. A record of such acceptance, to include the person accepting the material, shall be included in the permanent record. |                               |                |             |               |             |                |             |                |                |                |  |
| 3.3                                | 物料審查委員會對不合格項目的評估-應建立物料審查委員會(MRB)，並經由 MRB 以確定不符合所有適用工程要求和生產規範(即不合格項目)的項目之處置作為，並應包括一個或多個製造商指定的技術代表。MRB 代表應在 QAM 中確定。若經分析、額外檢查、功能檢查、維修、重工或“依原材料使用”，確保物品符合所有相關設計要求，則 MRB 可授權其用於生產遙控無人機系統。否則，該項目需被拒絕。   |                               |                |             |               |             |                |             |                |                |                |  |



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|                                    | Evaluation of Nonconforming Items by a Materials Review Board-A Materials Review Board (MRB) shall be established to determine the disposition of items that do not conform to all applicable engineering requirements and production specifications (nonconforming items) and shall consist of one or more manufacturer's designated technical representatives. MRB representatives shall be identified within the QAM. If analysis, additional inspection, functional checks, repair, rework, or a use "as is" determination assures that an item meets all of the relevant design requirements, the MRB may authorize its use in the production of a UAS. Otherwise, the item shall be rejected. |                               |                |             |               |             |                        |             |                        |                        |                        |  |
| 3.4                                | 製造商應永久記錄保存經 MRB 評估和接受的不合格產品之處置情況。<br>QAR 應記錄任何不符合材料的使用情況。<br>The manufacturer shall keep a permanent record showing the disposition of nonconforming items that have been evaluated and accepted by the MRB. The QAR shall document the use of any nonconforming material.  |                               |                |             |               |             |                        |             |                        |                        |                        |  |
| 3.5                                | 拒收不符合項目-因損壞、儲存壽命超限或其他變化而被認定不可用的物品。拒收、不符合的物品應被報廢、處置或充分標記為拒收，以確保其不會用於生產遙控無人機系統。被拒收物品可能不會立即被處置、報廢，而被保留在預留的保存區域中，亦需確保不被使用。<br>Rejection of Nonconforming Items-A process for disposing of items found to  |                               |                |             |               |             |                        |             |                        |                        |                        |  |

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| 編號 / 需求<br>Item No. / Requirements | 適用<br>A<br>/<br>不適<br>用<br>NA   | 符合性方法(MOC)     |             |               |             |                        |             |                        |                        |                        | 符合性聲明<br>Compliance<br>Statement<br>/<br>佐證文件<br>Subst. Doc. |
|------------------------------------|---|----------------|-------------|---------------|-------------|------------------------|-------------|------------------------|------------------------|------------------------|--|
|                                    |   | 設計<br>審查<br>DR | 分<br>析<br>A | 外來<br>資料<br>D | 檢<br>驗<br>I | 元<br>件<br>測<br>試<br>CT | 模<br>擬<br>S | 地<br>面<br>測<br>試<br>GT | 飛<br>行<br>測<br>試<br>FT | 失<br>效<br>分<br>析<br>FA |  |
|                                    | be unusable due to damage, shelf life limits, or other variations shall be defined and implemented. A rejected item shall be mutilated, disposed of, or sufficiently marked as rejected to ensure that it is not used in the production of a UAS. A rejected item may be secured in a reserved holding area for future disposition or disposal. |                |             |               |             |                        |             |                        |                        |                        |  |
| 4                                  | 生產驗收 Production Acceptance  |                |             |               |             |                        |             |                        |                        |                        |  |
| 4.1                                | 最終檢查-製造商於即將執行遙控無人機系統產品之接收檢查程序前，需驗證並記錄每架遙控無人機系統，皆使用 QAR 現用版遵循生產驗收程序並完成接收測試。<br>Final Inspections-The manufacturer shall verify and record that the QAR up to the point of acceptance testing is current for each UAS produced prior to conducting the following production acceptance procedures.  |                |             |               |             |                        |             |                        |                        |                        |  |
| 4.2                                | 最終測試-製造商應確認根據本規範完成最終系統測試，以備便遙控無人機系統之放飛。<br>Final Testing-The manufacturer shall validate the proper completion of any ready to fly UAS by conducting a final system test in accordance with the requirements of main Specification.   |                |             |               |             |                        |             |                        |                        |                        |  |
| 4.3                                | 儀器校正-任何需要定期校驗的遙控無人機系統儀器，都應進行校驗，並有文件化追溯的記錄，包括現況或公差。用於校驗遙控無人機系統儀器及所有測試設備的工具、測試設備(皮托管/靜電測試儀、指南針等)亦應  |                |             |               |             |                        |             |                        |                        |                        |  |

## (五) MTOW≥150 公斤遙控無人機製造品質系統查檢表

### (A) 遙控無人機系統品質保證標準規範

標題列說明，請參閱 AC 107-002A，A2-2 頁

| 編號 / 需求<br>Item No. / Requirements |   | 適用<br>A<br>/<br>不適<br>用<br>NA | 符合性方法(MOC)     |             |                       |             |                        |             |                        |                        | 符合性聲明<br>Compliance<br>Statement<br>/<br>佐證文件<br>Subst. Doc. |
|------------------------------------|---|-------------------------------|----------------|-------------|-----------------------|-------------|------------------------|-------------|------------------------|------------------------|--|
|                                    |   |                               | 設計<br>審查<br>DR | 分<br>析<br>A | 外<br>來<br>資<br>料<br>D | 檢<br>驗<br>I | 元<br>件<br>測<br>試<br>CT | 模<br>擬<br>S | 地<br>面<br>測<br>試<br>GT | 飛<br>行<br>測<br>試<br>FT |  |
|                                    | 進行記錄和校驗，並且可追溯到公認的標準。<br>Instrument Calibration-Any UAS instrument requiring periodic calibrations shall have a calibration with traceability to a documented requirement (including currency) or tolerance. Tools or test equipment (pitot/static tester, compass, and so forth) used to calibrate a UAS instrument, as well as all test equipment, should be documented and calibrated with traceability to a recognized standard. |                               |                |             |                       |             |                        |             |                        |                        |  |
| 4.4                                | 差異的解決 - 製造商應開發和實施一個系統，以矯正在地面檢查或飛行測試中發現的任何異常情況，並記錄在 QAP 中。<br>Resolution of Discrepancies-The manufacturer shall develop and implement a system to correct any anomalies found during ground checks or flight testing and be documented in the QAP.  |                               |                |             |                       |             |                        |             |                        |                        |  |
| 4.4.1                              | 不合格品-任何未通過本要求生產驗收測試的遙控無人機系統，應被標記為不合格品。其後續應按照製造商的作業指南，修改異常並重新評估每個重工產品。<br>Noncompliance-Any UAS that fails any production acceptance test required by this practice shall be physically tagged as noncompliant. Anomalies shall be reworked per manufacturer’s instructions and each reworked anomaly shall be reevaluated.  |                               |                |             |                       |             |                        |             |                        |                        |  |

## (五) MTOW≥150 公斤遙控無人機製造品質系統查檢表

### (A) 遙控無人機系統品質保證標準規範

標題列說明，請參閱 AC 107-002A，A2-2 頁

| 編號 / 需求<br>Item No. / Requirements |   | 適用<br>A<br>/<br>不適<br>用<br>NA | 符合性方法(MOC)             |             |                       |             |                        |             |                        |                        |                        | 符合性聲明<br>Compliance<br>Statement<br>/<br>佐證文件<br>Subst. Doc. |
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|                                    |   |                               | 設<br>計<br>審<br>查<br>DR | 分<br>析<br>A | 外<br>來<br>資<br>料<br>D | 檢<br>驗<br>I | 元<br>件<br>測<br>試<br>CT | 模<br>擬<br>S | 地<br>面<br>測<br>試<br>GT | 飛<br>行<br>測<br>試<br>FT | 失<br>效<br>分<br>析<br>FA |  |
| 4.4.2                              | 不符合標籤-不合格品標籤應附加在遙控飛機上。<br>Noncompliance Tag-A noncompliance notice shall be attached to the aircraft in such a manner that it is in clear view of a potential operator of the UAS.  |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |
| 4.5                                | 生產驗收文件-文件化檢查清單，可用作記錄生產驗收檢查和測試的可接受方式，並應包括在可供每架遙控無人機系統使用的 QAR 中。<br>Production Acceptance Documentation-A written checklist may be used as an acceptable method of documenting production acceptance inspections, checks, and tests and shall be included in the QAR for each UAS if one is used.                                     |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |
| 5                                  | 品質保證責任和分配 Assignment of QA Duties and Responsibilities  |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |
| 5.1                                | 所有品質保證代表的職責，應予以記錄並明確職掌和權限級別。<br>Duties for all QA representatives shall be documented and specify responsibilities and levels of authority.   |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |
| 5.2                                | 遙控無人機系統製造商可以將 QA 職責和責任分配給外部供應商，以建立衛星廠製造、組裝或分配設施。任何此類權責分工都應記錄於 QAP 中。<br>UAS manufacturers may assign QA duties and responsibilities to outside parties for the purpose of establishing satellite manufacturing, assembly, or distribution facilities, or a combination thereof. Any such assignment shall be documented in the QAP. |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |

## (五) MTOW≥150 公斤遙控無人機製造品質系統查檢表

### (A) 遙控無人機系統品質保證標準規範

標題列說明，請參閱 AC 107-002A，A2-2 頁

| 編號 / 需求<br>Item No. / Requirements |  | 適用<br>A<br>/<br>不適<br>用<br>NA | 符合性方法(MOC)             |             |                       |             |                        |             |                        |                        |                        | 符合性聲明<br>Compliance<br>Statement<br>/<br>佐證文件<br>Subst. Doc. |
|------------------------------------|--|-------------------------------|------------------------|-------------|-----------------------|-------------|------------------------|-------------|------------------------|------------------------|------------------------|--|
|                                    |  |                               | 設<br>計<br>審<br>查<br>DR | 分<br>析<br>A | 外<br>來<br>資<br>料<br>D | 檢<br>驗<br>I | 元<br>件<br>測<br>試<br>CT | 模<br>擬<br>S | 地<br>面<br>測<br>試<br>GT | 飛<br>行<br>測<br>試<br>FT | 失<br>效<br>分<br>析<br>FA |  |
| 5.3                                | 遙控無人機系統製造商，應為所有分配 QA 職責的人員，建立教育訓練和評估計畫。<br>UAS manufacturers shall establish training and evaluation programs for all personnel assigned QA duties and responsibilities.   |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |
| 5.4                                | 製造商應採取適當措施，確保履行品質保證代表職責的人員，能夠向製造商的高級管理層，提供產品符合性的獨立見解。<br>The manufacturer shall take appropriate steps to ensure that persons performing the QA representative role can provide independent input on product conformity to the manufacturer's senior management. |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |

## (五) MTOW≥150 公斤遙控無人機製造品質系統查檢表

### (B) 遙控無人機系統生產驗收標準規範

標題列說明，請參閱 AC 107-002A，A2-2 頁

| 編號 / 需求<br>Item No. / Requirements |  | 適用<br>A<br>/<br>不適<br>用<br>NA | 符合性方法(MOC)         |             |                       |             |                        |             |                        |                        |                        | 符合性聲明<br>Compliance<br>Statement<br>/<br>佐證文件<br>Subst. Doc. |
|------------------------------------|--|-------------------------------|--------------------|-------------|-----------------------|-------------|------------------------|-------------|------------------------|------------------------|------------------------|--|
|                                    |  |                               | 設計<br>審<br>查<br>DR | 分<br>析<br>A | 外<br>來<br>資<br>料<br>D | 檢<br>驗<br>I | 元<br>件<br>測<br>試<br>CT | 模<br>擬<br>S | 地<br>面<br>測<br>試<br>GT | 飛<br>行<br>測<br>試<br>FT | 失<br>效<br>分<br>析<br>FA |  |
| 1                                  | 需求 Requirements  |                               |                    |             |                       |             |                        |             |                        |                        |                        |  |
| 1.1                                | 生產 Production:   |                               |                    |             |                       |             |                        |             |                        |                        |                        |  |
| 1.1.1                              | 概述 General:  |                               |                    |             |                       |             |                        |             |                        |                        |                        |  |
| 1.1.1.1                            | <p>製造商對交貨時符合公認共識標準的產品負責，並證明其符合飛行安全。對於由供應商提供的組件組裝之遙控無人機系統，供應商應向製造商提供有關這些組件組裝和測試的詳細說明。供應商提供的組件，應包含聲明零件的設計和製造符合可接受的共識標準，並且這些零件在按照供應商的說明進行組裝、測試和維護時，均符合安全標準。如果民航局(CAA) 要求，製造商或供應商還應遵守任何適用的技術標準命令中對特定組件或系統（或兩者）的合規要求。</p> <p>The manufacturer is responsible for a product that complies with accepted consensus standards at the time of delivery and is demonstrated as fit and safe for flight. For UAS assembled from components provided by a supplier, the supplier shall provide detailed instructions to the manufacturer concerning the assembly and test of those components. The components supplied by a supplier shall include a declaration that the components have been designed and manufactured in accordance with an accepted consensus standard and that the components, when assembled, tested, and maintained in accordance with the supplier’s instructions, meet the safety standards implied by the applicable consensus standards. If required by CAA, the manufacturer/supplier shall also</p> |                               |                    |             |                       |             |                        |             |                        |                        |                        |  |

## (五) MTOW≥150 公斤遙控無人機製造品質系統查檢表

### (B) 遙控無人機系統生產驗收標準規範

標題列說明，請參閱 AC 107-002A，A2-2 頁

| 編號 / 需求<br>Item No. / Requirements | 適用<br>A<br>/<br>不適<br>用<br>NA  | 符合性方法(MOC)     |             |               |             |                        |             |                        |                        |                        | 符合性聲明<br>Compliance<br>Statement<br>/<br>佐證文件<br>Subst. Doc. |
|------------------------------------|--|----------------|-------------|---------------|-------------|------------------------|-------------|------------------------|------------------------|------------------------|--|
|                                    |  | 設計<br>審查<br>DR | 分<br>析<br>A | 外來<br>資料<br>D | 檢<br>驗<br>I | 元<br>件<br>測<br>試<br>CT | 模<br>擬<br>S | 地<br>面<br>測<br>試<br>GT | 飛<br>行<br>測<br>試<br>FT | 失<br>效<br>分<br>析<br>FA |  |
|                                    | comply with any requirements for compliance with any applicable technical standard orders for specific components or systems, or both.   |                |             |               |             |                        |             |                        |                        |                        |  |
| 1.1.1.2                            | 製造商有責任確保遙控無人機系統已按照零件供應商的作業說明指南進行組裝。<br>The manufacturer is responsible for ensuring that the UAS has been assembled in accordance with the component supplier's instructions and complies with the main specification.   |                |             |               |             |                        |             |                        |                        |                        |  |
| 1.1.1.3                            | 符合品質保證標準-品質保證應按照本查檢表(D)執行。<br>Compliance with Quality Assurance Standard-Quality assurance shall be exercised across production in accordance with the check list (D).   |                |             |               |             |                        |             |                        |                        |                        |  |
| 1.1.2                              | 結構-遙控無人機系統機身結構應滿足本查檢表(A)的要求。若沒有可適當證明目前使用中結構的材料，則應適當安排經由其任務執行時驗證之。<br>Structure-UAS airframe structures shall meet the requirements specified in the check list (A). UAS structures using materials that have no applicable certified material characteristics shall be demonstrated to be suitable for the mission involved. |                |             |               |             |                        |             |                        |                        |                        |  |
| 1.1.2.1                            | 材料採購-使用的零件應保持一致，並應避免非預期的變化或替代品。<br>Material procurement-Components used shall be consistent and uncontrolled variation or substitution shall be avoided.   |                |             |               |             |                        |             |                        |                        |                        |  |

## (五) MTOW≥150 公斤遙控無人機製造品質系統查檢表

### (B) 遙控無人機系統生產驗收標準規範

標題列說明，請參閱 AC 107-002A，A2-2 頁

| 編號 / 需求<br>Item No. / Requirements |   | 適用<br>A<br>/<br>不適<br>用<br>NA | 符合性方法(MOC)             |             |                       |             |                        |             |                        |                        |                        | 符合性聲明<br>Compliance<br>Statement<br>/<br>佐證文件<br>Subst. Doc. |
|------------------------------------|---|-------------------------------|------------------------|-------------|-----------------------|-------------|------------------------|-------------|------------------------|------------------------|------------------------|--|
|                                    |   |                               | 設<br>計<br>審<br>查<br>DR | 分<br>析<br>A | 外<br>來<br>資<br>料<br>D | 檢<br>驗<br>I | 元<br>件<br>測<br>試<br>CT | 模<br>擬<br>S | 地<br>面<br>測<br>試<br>GT | 飛<br>行<br>測<br>試<br>FT | 失<br>效<br>分<br>析<br>FA |  |
| 1.1.2.2                            | 裝配執执行程序-裝配所使用的環氧樹脂、CA 水泥等材料，應根據產品供應商的數據表，進行安全和可接受的結果。<br>Assembly practices-Consistent, accepted practices and assembly using materials such as epoxy, CA cements, shall be applied in accordance with product supplier's data sheets for safety and acceptable results.  |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |
| 1.1.2.3                            | 模具-使用的模具、工具和夾具生產，應符合機身的工程設計要求，並根據零件適配、裝配公差、缺陷尺寸和其他要求，且皆需記錄在設計中。<br>Tooling-Molds, tooling, and jigs shall be used that produce an airframe which conforms to the engineering design in terms of part fit, assembly tolerances, defect size, and other requirements documented in the design.                              |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |
| 1.1.2.4                            | 鎖固和連接-機械零件如配件、推桿、轉子結構，應使用安全保險絲、螺紋鎖固黏合劑、壓接、焊接或其他有效的方式固定之。<br>Fastening and joining-Mechanical components such as fittings, pushrods, rotor structures and fittings shall be properly secured using safety wire, thread locking adhesives, crimping, welding or other effective means of restraining mechanical components. |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |
| 1.1.2.5                            | 潤滑-如果使用配件潤滑，製造商應確保使用的潤滑劑適合應用於耐熱範圍和預測負載。<br>Lubrication-Where lubrication of fittings is used, the manufacturer shall  |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |



## (五) MTOW≥150 公斤遙控無人機製造品質系統查檢表

### (B) 遙控無人機系統生產驗收標準規範

標題列說明，請參閱 AC 107-002A，A2-2 頁

| 編號 / 需求<br>Item No. / Requirements |   | 適用<br>A<br>/<br>不適<br>用<br>NA | 符合性方法(MOC)             |             |                       |             |                        |             |                        |                        |                        | 符合性聲明<br>Compliance<br>Statement<br>/<br>佐證文件<br>Subst. Doc. |
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|                                    |   |                               | 設<br>計<br>審<br>查<br>DR | 分<br>析<br>A | 外<br>來<br>資<br>料<br>D | 檢<br>驗<br>I | 元<br>件<br>測<br>試<br>CT | 模<br>擬<br>S | 地<br>面<br>測<br>試<br>GT | 飛<br>行<br>測<br>試<br>FT | 失<br>效<br>分<br>析<br>FA |  |
|                                    | ensure that the lubricant used is appropriate to the application, thermal range and predicted load.   |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |
| 1.1.3                              | 推進力 Propulsion:   |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |
| 1.1.3.1                            | 發動機/引擎支撐-使用環氧樹脂，CA 水泥等材料進行、執行與組裝，應根據產品供應商的數據表，以具安全和可接受性。<br>Motor/engine mounting-Consistent, accepted practices and assembly using materials such as epoxy, CA cements, and the like shall be applied in accordance with product supplier's data sheets for safety and acceptable results. |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |
| 1.1.3.2                            | 安全-發動機/引擎/螺旋槳的支撐應經過驗證，以符合製造商/供應商規定的扭矩水平和安全性。<br>Security-Motor/engine/propeller mounting shall be verified to meet manufacturer/supplier specified torque levels and security.  |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |
| 1.1.3.3                            | 動態平衡-安裝前，螺旋槳、轉子或轉子葉片，應依照設計規範執行靜態和動態平衡。<br>Dynamic balancing-Prior to installation, propellers or rotors or rotor blades shall be statically and dynamically balanced per design specification.  |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |
| 1.1.3.4                            | 推進電池-對於電力推進系統，電池供補應適用本查檢表(B)之規定。<br>Propulsion batteries-For electric propulsion systems, provisions in the check list (B) shall apply.   |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |

## (五) MTOW≥150 公斤遙控無人機製造品質系統查檢表

### (B) 遙控無人機系統生產驗收標準規範

標題列說明，請參閱 AC 107-002A，A2-2 頁

| 編號 / 需求<br>Item No. / Requirements |   | 適用<br>A<br>/<br>不適<br>用<br>NA | 符合性方法(MOC)     |             |                       |             |                        |             |                        |                        |                        | 符合性聲明<br>Compliance<br>Statement<br>/<br>佐證文件<br>Subst. Doc. |
|------------------------------------|---|-------------------------------|----------------|-------------|-----------------------|-------------|------------------------|-------------|------------------------|------------------------|------------------------|--|
|                                    |   |                               | 設計<br>審查<br>DR | 分<br>析<br>A | 外<br>來<br>資<br>料<br>D | 檢<br>驗<br>I | 元<br>件<br>測<br>試<br>CT | 模<br>擬<br>S | 地<br>面<br>測<br>試<br>GT | 飛<br>行<br>測<br>試<br>FT | 失<br>效<br>分<br>析<br>FA |  |
| 1.1.4                              | 系統-可以呈現為不受其他子系統相互影響的獨立系統。例如和飛行控制系統沒有界面關係的彈射子系統，其驗證滿足功能，是和機身有相關性或是虛擬的機身。<br><br>Systems-Systems that can be shown not to be impacted by, or to impact on, other subsystems may be demonstrated independent of all-up functional verification of systems. For example, a launch sub system that has no interface with the flight control system may be demonstrated to meet functionality with an airframe or a dummy airframe.   |                               |                |             |                       |             |                        |             |                        |                        |                        |  |
| 1.1.5                              | 酬載 Payload:   |                               |                |             |                       |             |                        |             |                        |                        |                        |  |
| 1.1.5.1                            | 實體有效酬載的安裝固定，應按照遙控無人機系統設計或製造商的指南說明書(或兩者)規定，並注意正確的衝擊和振動衰減。主電源系統(電池、發電機等)的電流消耗，應在電路保護的生產和功能測試期間進行融合驗證。如果製造商允許在生產後安裝實體酬載，那麼對設計安裝的具體要求，以及實體酬載規定，應符合本查檢表(F)制定的飛行手冊，或本查檢表(G)制定的維護和持續適航性文件中規定。並且實體酬載重量不應導致超過最大確定的總重，以確定系統的最大安全重量。<br><br>Physical-Payload(s) shall be mounted in the manner specified by the UAS design or manufacturer's instructions (or both) with attention given to proper shock and vibration attenuations. Current draw from primary power systems (batteries, generators, and so forth) shall be verified during production and |                               |                |             |                       |             |                        |             |                        |                        |                        |  |

## (五) MTOW≥150 公斤遙控無人機製造品質系統查檢表

### (B) 遙控無人機系統生產驗收標準規範

標題列說明，請參閱 AC 107-002A，A2-2 頁

| 編號 / 需求<br>Item No. / Requirements |   | 適用<br>A<br>/<br>不適用<br>NA | 符合性方法(MOC)     |             |               |             |                |             |                |                |                | 符合性聲明<br>Compliance<br>Statement<br>/<br>佐證文件<br>Subst. Doc. |
|------------------------------------|---|---------------------------|----------------|-------------|---------------|-------------|----------------|-------------|----------------|----------------|----------------|--|
|                                    |   |                           | 設計<br>審查<br>DR | 分<br>析<br>A | 外來<br>資料<br>D | 檢<br>驗<br>I | 元件<br>測試<br>CT | 模<br>擬<br>S | 地面<br>測試<br>GT | 飛行<br>測試<br>FT | 失效<br>分析<br>FA |  |
|                                    | functionality of circuit protection and fusing shall also be verified. If the manufacturer allows payloads to be installed post-production, then specific requirements for the design installation, and test of these type payloads shall be specified in the aircraft flight manual developed in accordance with the check list (F) or the maintenance and continued airworthiness documentation developed in accordance with the check list (G). Maximum safe gross weight of the system shall be determined and payload weight shall not result in a gross weight that exceeds maximum determined safe gross weight. |                           |                |             |               |             |                |             |                |                |                |  |
| 1.1.5.2                            | 對重心位置的影響-酬載的位置應按照遙控無人機系統設計者的規定配置，並且每架遙控無人機的重心，應在安裝酬載的情況下進行驗證。應包括由於飛行中卸載的燃料消耗，而導致重心位置的變化。<br>Effect on CG location-Payloads shall be located as specified by the UAS designer and center of gravity for each aircraft shall be verified with payload installed. This shall include center of gravity changes due to fuel consumption or in-flight offloaded payloads, or both.   |                           |                |             |               |             |                |             |                |                |                |  |
| 1.1.5.3                            | 系統設計變更的責任-若未對飛行性能或影響此類變更的控制信號系統的電子或電氣相容性影響，進行工程定義，則不得變更零組件的實體位置。當預測到這種實體變更將導致系統性能發生變化，則應對其變更進行驗證，以確定系統功能將保持在規格限制範圍內。如果進行此類變更以適應零件或材料不適用等問題，則應使用製造商接受的格式和處理/儲  |                           |                |             |               |             |                |             |                |                |                |  |

## (五) MTOW≥150 公斤遙控無人機製造品質系統查檢表

### (B) 遙控無人機系統生產驗收標準規範

標題列說明，請參閱 AC 107-002A，A2-2 頁

| 編號 / 需求<br>Item No. / Requirements |  | 適用<br>A<br>/<br>不適<br>用<br>NA | 符合性方法(MOC)     |             |               |             |                        |             |                        |                        | 符合性聲明<br>Compliance<br>Statement<br>/<br>佐證文件<br>Subst. Doc. |
|------------------------------------|--|-------------------------------|----------------|-------------|---------------|-------------|------------------------|-------------|------------------------|------------------------|--|
|                                    |  |                               | 設計<br>審查<br>DR | 分<br>析<br>A | 外來<br>資料<br>D | 檢<br>驗<br>I | 元<br>件<br>測<br>試<br>CT | 模<br>擬<br>S | 地<br>面<br>測<br>試<br>GT | 飛<br>行<br>測<br>試<br>FT |  |
|                                    | 存程序，並將這些變更記錄在工程變更單(ECO)中。<br>Accountability for system design changes-No change in physical location of components may be made without engineering definition of the impact of such change on flight performance or electronic or electrical compatibility of command and control systems that are impacted by such change. Where a change in systems performance is predicted for such physical change, the change shall be validated to ascertain that system functionality will remain within specification limits. When such changes are made to accommodate issues such as unavailability of parts or material, those changes shall be documented in an engineering change order (ECO) using manufacturer’s normally accepted format and processing/storage procedures. |                               |                |             |               |             |                        |             |                        |                        |  |
| 1.1.6                              | 地面支援設備 Ground Support Equipment:   |                               |                |             |               |             |                        |             |                        |                        |  |
| 1.1.6.1                            | 控制站-控制站可以像商用現成傳送器一樣簡單，也可如同配備控制顯示器、控制信號(C2)鏈路接收器、警告設備、記錄設備、電池充電、獨立電源等的可動遮蔽棚一樣複雜。無論生產系統如何，地面控制站都應作為生產驗收的一部分，以符合系統設計和整體的規範，以及所用設備的供應商規範。確保一致性的要求，於已知的構型中，不會在操作中錯誤引入，並可能導致降低系統性能或影響遙控無人機系統飛行安全。生產驗證應包括對每個生產的控制站進行產品驗證，控制產品以確保控制遙控無人機系統，並確保遙控無人機系統操作標準結果一致性。  |                               |                |             |               |             |                        |             |                        |                        |  |

## (五) MTOW≥150 公斤遙控無人機製造品質系統查檢表

### (B) 遙控無人機系統生產驗收標準規範

標題列說明，請參閱 AC 107-002A，A2-2 頁

| 編號 / 需求<br>Item No. / Requirements |   | 適用<br>A<br>/<br>不適<br>用<br>NA | 符合性方法(MOC)     |             |               |             |                    |             |                |                | 符合性聲明<br>Compliance<br>Statement<br>/<br>佐證文件<br>Subst. Doc. |
|------------------------------------|---|-------------------------------|----------------|-------------|---------------|-------------|--------------------|-------------|----------------|----------------|--|
|                                    |   |                               | 設計<br>審查<br>DR | 分<br>析<br>A | 外來<br>資料<br>D | 檢<br>驗<br>I | 元<br>件<br>測試<br>CT | 模<br>擬<br>S | 地面<br>測試<br>GT | 飛行<br>測試<br>FT |  |
|                                    | Control station-The control station may be as simple as a commercial off the shelf transmitter or as complex as a mobile shelter complete with control displays, C2 link receivers, warning devices, recording equipment, battery charging, independent electrical power and so forth. Whatever the production system, it shall be demonstrated as part of production acceptance to comply with the specifications of the system design and integration and supplier’s specifications for the equipment used. The requirement is to ensure a consistent, known configuration that does not introduce errors in operation of the UAS that can lead to degradation of the system or UAS flight safety. Production verification shall include verification of the product for each control station produced to ensure that the UAS will be controlled as required to comply with UAS operational standards consistently. |                               |                |             |               |             |                    |             |                |                |  |
| 1.1.6.2                            | 彈射與回收系統(如果需要)-彈射與回收系統可以像手動發射一樣簡單，也可以像彈力繩、氣動或液壓彈射器一樣複雜。無論生產系統如何，彈射和回收系統都應作為生產驗收的一部分，以符合系統設計和整體的規範，以及所用設備的供應商規範。確保一致性的要求，於已知的構型中，不會在操作中錯誤引入，並可能導致降低系統性能或影響機組安全及遙控無人機系統飛行安全。生產驗證應包括對每個生產的彈射與回收系統進行產品驗證，以確保遙控無人機系統將在製造商指定的彈射範圍內安全啟動。以確保控制遙控無人機系統，並確保遙控無人機系統操作   |                               |                |             |               |             |                    |             |                |                |  |

## (五) MTOW≥150 公斤遙控無人機製造品質系統查檢表

### (B) 遙控無人機系統生產驗收標準規範

標題列說明，請參閱 AC 107-002A，A2-2 頁

| 編號 / 需求<br>Item No. / Requirements |  | 適用<br>A<br>/<br>不適<br>用<br>NA | 符合性方法(MOC)             |             |                       |             |                        |             |                        |                        |                        | 符合性聲明<br>Compliance<br>Statement<br>/<br>佐證文件<br>Subst. Doc. |
|------------------------------------|--|-------------------------------|------------------------|-------------|-----------------------|-------------|------------------------|-------------|------------------------|------------------------|------------------------|--|
|                                    |  |                               | 設<br>計<br>審<br>查<br>DR | 分<br>析<br>A | 外<br>來<br>資<br>料<br>D | 檢<br>驗<br>I | 元<br>件<br>測<br>試<br>CT | 模<br>擬<br>S | 地<br>面<br>測<br>試<br>GT | 飛<br>行<br>測<br>試<br>FT | 失<br>效<br>分<br>析<br>FA |  |
|                                    | 標準結果一致性。<br>Launch and recovery systems (if required)—The launch and recovery system may be as simple as hand launch or as complex as a bungee, pneumatic or hydraulic launcher. Whatever the production system, it shall be demonstrated to comply with the specifications of the system design and integration and suppliers specifications for the equipment used. The requirement is to ensure a consistent, known configuration that does not introduce errors in operation of the UAS that can lead to system degradation, crew safety or UAS flight safety. Production verification shall include verification of the product for each launch and recovery system produced to ensure that the UAS will be launched safely within the launch envelope specified by manufacturer. |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |
| 1.1.7                              | 系統層級 System Level:   |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |
| 1.1.7.1                            | 構型管理計畫-遙控無人機系統製造商應制定構型管理計畫，確保建立和維護每架遙控無人機系統的標準構型，並客觀提供產品符合規範和持續品質管理系統的有效性。<br>Configuration management plan-The UAS manufacturer shall develop a configuration management plan to ensure that a standard configuration for each UAS is established and maintained and to provide objective evidence of production conformance to specifications and continued effectiveness of the quality management system.  |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |

## (五) MTOW≥150 公斤遙控無人機製造品質系統查檢表

### (B) 遙控無人機系統生產驗收標準規範

標題列說明，請參閱 AC 107-002A，A2-2 頁

| 編號 / 需求<br>Item No. / Requirements |   | 適用<br>A<br>/<br>不適<br>用<br>NA | 符合性方法(MOC)     |             |               |             |                        |             |                        |                        | 符合性聲明<br>Compliance<br>Statement<br>/<br>佐證文件<br>Subst. Doc. |
|------------------------------------|---|-------------------------------|----------------|-------------|---------------|-------------|------------------------|-------------|------------------------|------------------------|--|
|                                    |   |                               | 設計<br>審查<br>DR | 分<br>析<br>A | 外來<br>資料<br>D | 檢<br>驗<br>I | 元<br>件<br>測<br>試<br>CT | 模<br>擬<br>S | 地<br>面<br>測<br>試<br>GT | 飛<br>行<br>測<br>試<br>FT |  |
| 1.1.7.2                            | 產品規格-遙控無人機系統特性，應以製造商正常接受的格式記錄產品規格。應定義遙控無人機系統標準構型，以便提供產品驗證測試基礎。<br>Product specification-The UAS characteristics shall be documented in a product specification in the manufacturer’s normal accepted format. In this specification, the UAS standard configuration shall be defined to provide a basis for product verification testing.  |                               |                |             |               |             |                        |             |                        |                        |  |
| 1.1.7.3                            | 產品驗證計畫-應制定產品驗證計畫，以確保在 1.1.7.4 節中要求的遙控無人機系統的正式驗證測試，包括以下活動<br>Product verification plan-A product verification plan shall be developed to ensure the following activities are included in the formal verification testing of the UAS required in 1.1.7.4.<br>(1) 工程設計-遙控無人機系統的生產應依據標準構型報告，並以製造商正常接受的格式發佈與該構型特別相關的工程資料(即藍圖、製程、規格等)。滿足生產突發事件所需的設計變更，並應記錄在工程變更單(ECO)中，以便進行更改，設計變更必須序號、組別識別。<br>Engineering design-The production of the UAS shall be based on the standard configuration report and released engineering data (that is, drawings, processes, specifications, and so forth) in the manufacturer’s normal accepted format that are specifically associated with that configuration. Design modifications required to meet production |                               |                |             |               |             |                        |             |                        |                        |  |

## (五) MTOW≥150 公斤遙控無人機製造品質系統查檢表

### (B) 遙控無人機系統生產驗收標準規範

標題列說明，請參閱 AC 107-002A，A2-2 頁

| 編號 / 需求<br>Item No. / Requirements |   | 適用<br>A<br>/<br>不適<br>用<br>NA | 符合性方法(MOC)             |             |                       |             |                        |             |                        |                        |                        | 符合性聲明<br>Compliance<br>Statement<br>/<br>佐證文件<br>Subst. Doc. |
|------------------------------------|---|-------------------------------|------------------------|-------------|-----------------------|-------------|------------------------|-------------|------------------------|------------------------|------------------------|--|
|                                    |   |                               | 設<br>計<br>審<br>查<br>DR | 分<br>析<br>A | 外<br>來<br>資<br>料<br>D | 檢<br>驗<br>I | 元<br>件<br>測<br>試<br>CT | 模<br>擬<br>S | 地<br>面<br>測<br>試<br>GT | 飛<br>行<br>測<br>試<br>FT | 失<br>效<br>分<br>析<br>FA |  |
|                                    | <p>contingencies shall be documented in an ECO for that change and the change shall be identified by serial number block.</p> <p>(2) 裝配說明指導書-應使用製造商正式核准格式的適當裝配指導書，以確保生產過程的一致性和可重複性。<br/>Assembly instructions-Appropriate assembly instructions in the manufacturer's normal accepted format shall be used to assure the uniformity and repeatability of production processes.</p> <p>(3) 工具-適用於遙控無人機系統設計的工具，應用於確保關鍵尺寸的控制和組件與組件之間生產的可重複性。<br/>Tooling-Tooling appropriate to the UAS design shall be used to assure control of critical dimensions and the repeatability of production from unit to unit.</p> <p>(4) 材料檢驗-製造商應確保材料(生料、零件和組件)的供應商符合共同標準。遙控無人機系統的生料及設備啟動前，應對其構型及製程品質進行確認。可於供應商或製造商端進行檢查。<br/>Material inspection-Manufacturers shall ensure that suppliers of material items (raw material, components, and assemblies) are in compliance with consensus standards for those material items. Incoming materials and equipment to be installed in the UAS shall be inspected for proper configuration and quality of workmanship before their use. Inspections</p> |                               |                        |             |                       |             |                        |             |                        |                        |                        |  |



## (五) MTOW≥150 公斤遙控無人機製造品質系統查檢表

### (B) 遙控無人機系統生產驗收標準規範

標題列說明，請參閱 AC 107-002A，A2-2 頁

| 編號 / 需求<br>Item No. / Requirements |  | 適用<br>A<br>/<br>不適<br>用<br>NA | 符合性方法(MOC)     |             |                       |             |                        |             |                        |                        |                        | 符合性聲明<br>Compliance<br>Statement<br>/<br>佐證文件<br>Subst. Doc. |
|------------------------------------|--|-------------------------------|----------------|-------------|-----------------------|-------------|------------------------|-------------|------------------------|------------------------|------------------------|--|
|                                    |  |                               | 設計<br>審查<br>DR | 分<br>析<br>A | 外<br>來<br>資<br>料<br>D | 檢<br>驗<br>I | 元<br>件<br>測<br>試<br>CT | 模<br>擬<br>S | 地<br>面<br>測<br>試<br>GT | 飛<br>行<br>測<br>試<br>FT | 失<br>效<br>分<br>析<br>FA |  |
|                                    | <p>may be performed at the supplier's location or the manufacturer's location or both.</p> <p>(5) 過程中檢查-在安裝到下一階段的組件前，應檢查遙控無人機系統的次組件(為了正確的構型和製程品質)。生產計畫應在確定的適當過程檢查點上排定製程檢驗流程。</p> <p>In-process inspection-When appropriate, subassemblies of the UAS shall be inspected (for proper configuration and quality of workmanship) before installation into the next higher assembly. Production plans shall delineate product flow with appropriate in-process inspection points identified.</p> |                               |                |             |                       |             |                        |             |                        |                        |                        |  |
| 1.1.7.4                            | <p>設計確認-遙控無人機系統零件或系統設計的正式確認，遙控無人機系統供應商或製造商，應遵行本查檢表(A)~(G)之需求。</p> <p>Design validation-A formal validation of the UAS component or system design shall be performed by the UAS supplier or manufacturer in accordance with requirements from the check list (A) to (G).</p>  |                               |                |             |                       |             |                        |             |                        |                        |                        |  |
| 1.2                                | 系統層級生產驗收 System Level Production Acceptance:   |                               |                |             |                       |             |                        |             |                        |                        |                        |  |
| 1.2.1                              | <p>生產過程中的測試-每架遙控無人機系統的主要次組合，都應進行測試(如適用)，以確保安裝到下一階段前的組件，可以正常運行。這些次組合可以包括但不一定侷限於以下內容：</p> <p>Production In-Process Tests—Major subassemblies of each UAS shall be tested (as appropriate) to verify proper operation before their installation into</p>  |                               |                |             |                       |             |                        |             |                        |                        |                        |  |

## (五) MTOW≥150 公斤遙控無人機製造品質系統查檢表

### (B) 遙控無人機系統生產驗收標準規範

標題列說明，請參閱 AC 107-002A，A2-2 頁

| 編號 / 需求<br>Item No. / Requirements |  | 適用<br>A<br>/<br>不適用<br>NA | 符合性方法(MOC)     |             |               |             |                |             |                |                |                | 符合性聲明<br>Compliance<br>Statement<br>/<br>佐證文件<br>Subst. Doc. |
|------------------------------------|--|---------------------------|----------------|-------------|---------------|-------------|----------------|-------------|----------------|----------------|----------------|--|
|                                    |  |                           | 設計<br>審查<br>DR | 分<br>析<br>A | 外來<br>資料<br>D | 檢<br>驗<br>I | 元件<br>測試<br>CT | 模<br>擬<br>S | 地面<br>測試<br>GT | 飛行<br>測試<br>FT | 失效<br>分析<br>FA |  |
|                                    | the next higher assembly. These subassemblies can include, but are not necessarily limited to, the following:  |                           |                |             |               |             |                |             |                |                |                |  |
| 1.2.1.1                            | <p>結構-在工程開發和原型實體期間已確認的結構，只有在引入設計變更或材料和製程變更時，由於未在設計開發階段或飛行測試前經過驗證，故必須重新驗證。在此情況下，受設計或材料變更影響的結構測試部分，應使用與開發過程中相同的驗證程序，進行重新驗證。</p> <p>Structure-Structures validated during engineering development and prototyping need be revalidated only if design changes or material and process changes are introduced that have not been validated during development and flight test of the design. In those instances, the segment of test for the structure that is affected by the design or material change shall be revalidated using the same procedure used during development.</p> |                           |                |             |               |             |                |             |                |                |                |  |
| 1.2.1.2                            | <p>推進-製造商應主動以樣本統計方式，對推進組件的系列或型號，進行抽樣性能測試，以確認推進系統符合供應商規定的性能。</p> <p>Propulsion-The manufacturer shall subject a statistical sample of each serial block or model line of propulsion components to performance testing that validates that the propulsion system meets the supplier's stated performance.</p>  |                           |                |             |               |             |                |             |                |                |                |  |
| 1.2.1.3                            | <p>控制信號(C2)鏈路-製造商應制定生產計畫並執行，確保生產驗收所有相關鏈接，以滿足製造商的規範和所涉及的特定任務的設計要求。</p> <p>C2 links-A production plan shall be generated and enforced by the</p>   |                           |                |             |               |             |                |             |                |                |                |  |

## (五) MTOW≥150 公斤遙控無人機製造品質系統查檢表

### (B) 遙控無人機系統生產驗收標準規範

標題列說明，請參閱 AC 107-002A，A2-2 頁

| 編號 / 需求<br>Item No. / Requirements | 適用<br>A<br>/<br>不適<br>用<br>NA  | 符合性方法(MOC)     |             |                   |             |                    |             |                    |                    |                    | 符合性聲明<br>Compliance<br>Statement<br>/<br>佐證文件<br>Subst. Doc. |
|------------------------------------|--|----------------|-------------|-------------------|-------------|--------------------|-------------|--------------------|--------------------|--------------------|--|
|                                    |  | 設計<br>審查<br>DR | 分<br>析<br>A | 外<br>來<br>資料<br>D | 檢<br>驗<br>I | 元<br>件<br>測試<br>CT | 模<br>擬<br>S | 地<br>面<br>測試<br>GT | 飛<br>行<br>測試<br>FT | 失<br>效<br>分析<br>FA |  |
|                                    | manufacturer that ensures that all links involved are determined by production acceptance to meet the manufacturer's specification and the design requirements for the specific mission involved.  |                |             |                   |             |                    |             |                    |                    |                    |  |
| 1.2.1.4                            | 資料鏈路-當下行鏈路用於傳輸指揮和控制所不需要的訊息時，應對鏈路進行測試，以證明不會降低其主飛行控制。<br>Data link-When a downlink is used to transmit information that is not necessary for command and control, that the link shall be tested to prove that it does not degrade primary flight control.  |                |             |                   |             |                    |             |                    |                    |                    |  |
| 1.2.1.5                            | 酬載-當酬載用於產生商業功能所需的資訊或動作時，任何電、熱或酬載，都應經過模擬操作環境測試運行，以證明酬載不會降低主飛行控制。<br>Payload-When a payload is used to generate the information or action needed for commercial function, any electric, thermal, or active payload shall be tested in the simulated operational environment to prove that the payload does not degrade primary flight control. |                |             |                   |             |                    |             |                    |                    |                    |  |
| 1.2.2                              | 生產最終驗收測試 Production Final Acceptance Test:   |                |             |                   |             |                    |             |                    |                    |                    |  |
| 1.2.2.1                            | 製造商應至少按照本查檢表(A)~(G)內容，執行首架遙控無人機系統測試，以確保符合設計要求和設計操作能力在最終生產系統中實現。在此過程中，應驗證每個設計要求，並以製造商的正式接受格式記錄之。任何對遙控無人機系統的主要變更，都應進行重複驗證。若我國交通部民  |                |             |                   |             |                    |             |                    |                    |                    |  |

## (五) MTOW≥150 公斤遙控無人機製造品質系統查檢表

### (B) 遙控無人機系統生產驗收標準規範

標題列說明，請參閱 AC 107-002A，A2-2 頁

| 編號 / 需求<br>Item No. / Requirements |   | 適用<br>A<br>/<br>不適<br>用<br>NA | 符合性方法(MOC)     |             |                       |             |                        |             |                        |                        |                        | 符合性聲明<br>Compliance<br>Statement<br>/<br>佐證文件<br>Subst. Doc. |
|------------------------------------|---|-------------------------------|----------------|-------------|-----------------------|-------------|------------------------|-------------|------------------------|------------------------|------------------------|--|
|                                    |   |                               | 設計<br>審查<br>DR | 分<br>析<br>A | 外<br>來<br>資<br>料<br>D | 檢<br>驗<br>I | 元<br>件<br>測<br>試<br>CT | 模<br>擬<br>S | 地<br>面<br>測<br>試<br>GT | 飛<br>行<br>測<br>試<br>FT | 失<br>效<br>分<br>析<br>FA |  |
|                                    | <p>航局(CAA)允許或要求，產品驗證測試可由其他獨立單位執行。</p> <p>The manufacturer shall test at least the first article UAS in accordance with the check list from (A) to (G) to confirm that the design requirements and design operational capabilities are achieved in the final production systems. In this process, each design requirement shall be verified and the verification documented in the manufacturer's normal accepted format. This product verification shall be repeated for any major modification to the UAS. If allowed or required by CAA, these product verification tests can also be performed by an independent entity.</p> |                               |                |             |                       |             |                        |             |                        |                        |                        |  |
| 1.2.2.2                            | <p>遙控無人機系統的所有主要零組件(飛行器、控制站、彈射與回收設備[如果適用]等)，應由製造商進行測試，以確保在裝運和操作使用前可正常運作。在主要零組件進行單獨測試的情況下，應制定實施程序，以確保裝運後及運行前的相容性和功能適當性。沒有必要針對每個生產單元的等級進行測試，因為這在設計、製造和測試階段均已執行驗證。</p> <p>All major components (air vehicle, control stations, launch and recovery equipment [if applicable], and the like) of the UAS shall be tested by the manufacturer to ensure proper operation before shipment and operational use. Where major components are tested separately procedures shall be developed and implemented to ensure compatibility and proper function after shipment</p>  |                               |                |             |                       |             |                        |             |                        |                        |                        |  |

## (五) MTOW≥150 公斤遙控無人機製造品質系統查檢表

### (B) 遙控無人機系統生產驗收標準規範

標題列說明，請參閱 AC 107-002A，A2-2 頁

| 編號 / 需求<br>Item No. / Requirements | 適用<br>A<br>/<br>不適<br>用<br>NA  | 符合性方法(MOC)     |             |                       |             |                        |             |                        |                        |                        | 符合性聲明<br>Compliance<br>Statement<br>/<br>佐證文件<br>Subst. Doc. |
|------------------------------------|--|----------------|-------------|-----------------------|-------------|------------------------|-------------|------------------------|------------------------|------------------------|--|
|                                    |  | 設計<br>審查<br>DR | 分<br>析<br>A | 外<br>來<br>資<br>料<br>D | 檢<br>驗<br>I | 元<br>件<br>測<br>試<br>CT | 模<br>擬<br>S | 地<br>面<br>測<br>試<br>GT | 飛<br>行<br>測<br>試<br>FT | 失<br>效<br>分<br>析<br>FA |  |
|                                    | but before operational use. Testing of every production unit for range is not necessary since this is verified in the design, construct, and test phase.   |                |             |                       |             |                        |             |                        |                        |                        |  |
| 1.3                                | 品質保證-生產過程中的品質保證作為，應按照本查檢表(D)執行。<br>Quality Assurance-Quality assurance shall be exercised across production in accordance with the check list (D).   |                |             |                       |             |                        |             |                        |                        |                        |  |
| 1.4                                | 文件化 Documentation:   |                |             |                       |             |                        |             |                        |                        |                        |  |
| 1.4.1                              | 一般 General:  |                |             |                       |             |                        |             |                        |                        |                        |  |
| 1.4.1.1                            | 構型管理計畫-製造商應以正式接受格式編制構型管理計畫，以供製造過程使用。該計畫的目的是確保生產過程中，持續維持遙控無人機系統的構型一致性。<br>Configuration management plan-A configuration management plan for use during production shall be prepared in the manufacturer's normal accepted format. The purpose of this plan is to ensure that consistency of the configuration of the UAS in production is maintained. |                |             |                       |             |                        |             |                        |                        |                        |  |
| 1.4.1.2                            | 遙控無人機飛行手冊-應為每種類型的遙控無人機系統準備飛行手冊。本文件應按照本查檢表(F)進行準備。<br>Aircraft flight manual-An aircraft flight manual shall be prepared for each type UAS. This document shall be prepared in accordance with the check list (F).  |                |             |                       |             |                        |             |                        |                        |                        |  |
| 1.4.1.3                            | 維護和持續適航性文件-如果不包括在飛行手冊中，則應根據本查檢表(G)準備維護和持續適航性的文件。   |                |             |                       |             |                        |             |                        |                        |                        |  |

## (五) MTOW≥150 公斤遙控無人機製造品質系統查檢表

### (B) 遙控無人機系統生產驗收標準規範

標題列說明，請參閱 AC 107-002A，A2-2 頁

| 編號 / 需求<br>Item No. / Requirements |  | 適用<br>A<br>/<br>不適<br>用<br>NA | 符合性方法(MOC)     |             |                       |             |                        |             |                        |                        | 符合性聲明<br>Compliance<br>Statement<br>/<br>佐證文件<br>Subst. Doc. |
|------------------------------------|--|-------------------------------|----------------|-------------|-----------------------|-------------|------------------------|-------------|------------------------|------------------------|--|
|                                    |  |                               | 設計<br>審查<br>DR | 分<br>析<br>A | 外<br>來<br>資<br>料<br>D | 檢<br>驗<br>I | 元<br>件<br>測<br>試<br>CT | 模<br>擬<br>S | 地<br>面<br>測<br>試<br>GT | 飛<br>行<br>測<br>試<br>FT |  |
|                                    | Maintenance and continued airworthiness documentation-If not included in the aircraft flight manual, documentation that addresses maintenance and continued airworthiness shall be prepared in accordance with the check list (G).   |                               |                |             |                       |             |                        |             |                        |                        |  |
| 1.4.1.4                            | 其他維護手冊-因應製造商或我國交通部民航局(CAA)需求，可以依製造商的正式接受格式準備其他手冊。<br>Other maintenance manuals-Other manuals may be prepared if desired or required by the manufacturer or CAA or both. If such documents are required or desired they may be prepared in the manufacturer’s normal accepted format. |                               |                |             |                       |             |                        |             |                        |                        |  |
| 1.4.2                              | 生產 Production:   |                               |                |             |                       |             |                        |             |                        |                        |  |
| 1.4.2.1                            | 標準構型報告-按照 1.1.7.1 節的要求，每架遙控無人機系統應以製造商正式接受的格式準備標準構型報告。<br>Standard configuration report-A standard configuration report shall be prepared in the manufacturer’s normal accepted format for each UAS in accordance with section 1.1.7.1  |                               |                |             |                       |             |                        |             |                        |                        |  |
| 1.4.2.2                            | 產品規範-產品規範應按照 1.1.7.2 節製造商的正式接受格式進行準備。<br>Product specification-A product specification shall be prepared in the manufacturer’s normal accepted format in accordance with 1.1.7.2.  |                               |                |             |                       |             |                        |             |                        |                        |  |
| 1.4.2.3                            | 產品驗證計畫-產品驗證計畫應按照 1.1.7.3 節，依遙控無人機系統製造商的正式接受格式編制。   |                               |                |             |                       |             |                        |             |                        |                        |  |

## (五) MTOW≥150 公斤遙控無人機製造品質系統查檢表

### (B) 遙控無人機系統生產驗收標準規範

標題列說明，請參閱 AC 107-002A，A2-2 頁

| 編號 / 需求<br>Item No. / Requirements |  | 適用<br>A<br>/<br>不適用<br>NA | 符合性方法(MOC)     |             |                   |             |                    |             |                    |                    |                    | 符合性聲明<br>Compliance<br>Statement<br>/<br>佐證文件<br>Subst. Doc. |
|------------------------------------|--|---------------------------|----------------|-------------|-------------------|-------------|--------------------|-------------|--------------------|--------------------|--------------------|--|
|                                    |  |                           | 設計<br>審查<br>DR | 分<br>析<br>A | 外<br>來<br>資料<br>D | 檢<br>驗<br>I | 元<br>件<br>測試<br>CT | 模<br>擬<br>S | 地<br>面<br>測試<br>GT | 飛<br>行<br>測試<br>FT | 失<br>效<br>分析<br>FA |  |
|                                    | Product verification plan-A product verification plan shall be prepared in the manufacturer's normal accepted format for each UAS in accordance with 1.1.7.3.  |                           |                |             |                   |             |                    |             |                    |                    |                    |  |
| 1.4.2.4                            | 產品驗證報告-展示每架遙控無人機系統產品驗證結果的產品驗證報告，應以製造商的正式接受格式準備。<br>Product verification report-A product verification report that shows the results of product verification shall be prepared in the manufacturer's normal accepted format for each UAS.   |                           |                |             |                   |             |                    |             |                    |                    |                    |  |
| 1.4.2.5                            | 實際裝配日誌-對於每架交付的遙控無人機系統，應以製造商正式接受的格式準備“實際裝配日誌”。在日誌中，應記錄每個系統構型項目的零件號、名稱和序號。只要遙控無人機系統處於運營服務狀態，這些記錄應由供應商或製造商保留。當批次生產序號之遙控無人機系統，依其相同規範生產時，且設計與上述列出的四個文件規定之規格一致，一個實際裝配日誌之紀錄便已足夠。<br>As-built logs-An “as-built log” shall be prepared in the manufacturer's normal accepted format for each delivered UAS. In the log, the part number, name and serial number of each system configuration item shall be recorded. These records shall be retained by the supplier or manufacturer as long as the UAS is in operational service. When a block of serial numbered UAS are produced to |                           |                |             |                   |             |                    |             |                    |                    |                    |  |

## (五) MTOW≥150 公斤遙控無人機製造品質系統查檢表

### (B) 遙控無人機系統生產驗收標準規範

標題列說明，請參閱 AC 107-002A，A2-2 頁

| 編號 / 需求<br>Item No. / Requirements | 適用<br>A<br>/<br>不適<br>用<br>NA   | 符合性方法(MOC)     |             |                       |             |                        |             |                        |                        |                        | 符合性聲明<br>Compliance<br>Statement<br>/<br>佐證文件<br>Subst. Doc. |
|------------------------------------|---|----------------|-------------|-----------------------|-------------|------------------------|-------------|------------------------|------------------------|------------------------|--|
|                                    |   | 設計<br>審查<br>DR | 分<br>析<br>A | 外<br>來<br>資<br>料<br>D | 檢<br>驗<br>I | 元<br>件<br>測<br>試<br>CT | 模<br>擬<br>S | 地<br>面<br>測<br>試<br>GT | 飛<br>行<br>測<br>試<br>FT | 失<br>效<br>分<br>析<br>FA |  |
|                                    | the same specifications against the four documents listed immediately above, one as-built log will suffice for the block.   |                |             |                       |             |                        |             |                        |                        |                        |  |
| 1.4.3                              | 測試 Test:  |                |             |                       |             |                        |             |                        |                        |                        |  |
| 1.4.3.1                            | 生產過程中測試報告-每架交付的遙控無人機系統之生產過程測試報告，應以製造商的正式接受格式編制。<br>Production in-process test report-A production inprocess test report for each delivered UAS shall be prepared in the manufacturer's normal accepted format.  |                |             |                       |             |                        |             |                        |                        |                        |  |
| 1.4.3.2                            | 生產最終驗收測試報告-生產驗收測試報告應按照 1.2.2 節，每架交付的遙控無人機系統，依製造商正式接受的格式準備。只要遙控無人機系統處於運營服務狀態，這些記錄應由製造商保留。<br>Production final acceptance test report-A production acceptance test report shall be prepared in the manufacturer's normal accepted format for each delivered UAS in accordance with 1.2.2. These records shall be retained by the manufacturer as long as the UAS is in operational service. |                |             |                       |             |                        |             |                        |                        |                        |  |
| 1.4.4                              | 品質保證 Quality Assurance:   |                |             |                       |             |                        |             |                        |                        |                        |  |
| 1.4.4.1                            | 品質保證計畫-生產過程中使用的品質保證計畫，應按照本查檢表(D)進行準備。<br>QA plan-A QA plan for use during production shall be prepared in accordance with the check list (D).   |                |             |                       |             |                        |             |                        |                        |                        |  |