|  |  |
| --- | --- |
| Part 66 review of airworthiness (including special category) — aeroplane checklist report | Logo  Description automatically generated |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Operator**  |  | **CAA ID no.** |  | **Job no.** |  |
| **Date RA carried out** |  | **Facility and location where RA carried out** |  |
| **Principal maintainer** |  | **CAA ID no.** |  |
| **IA name** |  | **CAA ID no.** |  |
| **Notes for use:** also see explanatory notes on the last page of this form* Where an item is satisfactory select Y into the tick box, if not applicable select N/A
* All defects require maintenance action before further flight in accordance with the requirements of rule 91.603(a)(4)
* Sections 11 to 15 of this form are optional
* **Send completed report form to** **ara@caa.govt.nz**
 |  |  |
| **Date next review due** |  |
| **Complete sign-off on page 6** |

|  |  |  |  |
| --- | --- | --- | --- |
| 1. Aircraft particulars | Reg. Mark: ZK |       |  |
| Standard category |[ ]  Restricted |[ ]
| Special category |[ ]   |
| Experimental |[ ]  Exhibition |[ ]  Amateur |[ ]  Primary |[ ]  LSA |[ ]  Limited |[ ]
|  | **Airframe** | **Engine(s)** | **Propeller(s)** |
| Manufacturer |       |       |       |
| Model |       |       |       |
| TCDS no. |       | Rev |       |       | Rev |       |       | Rev |       |
| Serial no. |       |       |       |       |       |
| TTIS |       hrs  |       |       |       |       |
| TSO Hrs/Calendar |       | Hrs/Cal | Hrs/Cal | Hrs/Cal | Hrs/Cal |
| Tachometer/Hobbs hour reading |       | Heater hour meter reading |       |
| Maintenance programme(Select one) | Part115119 |[ ]  Part91.60791.605 |[ ]  Manufacturers |[ ]  TC(no support) |[ ]  GNZ TC22 |[ ]
| Aircraft conforms to type certificate data sheets and acceptable design changes? |  |

|  |  |  |
| --- | --- | --- |
| 2. Defects observed (see explanatory note 2 on last page) | Extra page(s) attached? |  |
| **No.** | **Description** | **Cleared?** |
|       |       |  |
|       |       |  |
|       |       |  |
|       |       |  |
|       |       |  |
|       |       |  |
| **IA sighted rectification maintenance records?** |  | **All defects rectified?** |  |

|  |
| --- |
| 3. Documents carried in aircraft (CAR 91.111) |
| Airworthiness certificate | Category(s) |       | Expiry date |       |
| Manufacturer’s flight manual | Document |       | Revision |       | Current? |  |
| CAA flight manual | AIR |       | A/L |       | Current? |  |
| Applicable supplements in Flight Manual – log of supplements & amendment record sheet current? |  |
| Technical log | Issue no. |       | Date |       |
| All maintenance, including defects and inoperative equipment/MEL items, recorded on current technical log appropriately rectified or deferred? |  |
| 91.619 | Technical Log contains all required current information? |  |
| CAA 2129 Radio station | Issue date |       | Matches radio configuration? |  |
| CAA 2173 Weight & balance | Issue date |       | Date last weighed: |       | Current per logbook? |  |
| Matches aircraft logbook? |  | Within limits and accurate? |  |
| Certificate of registration |  Must be carried on NZ registered aircraft operating outside of NZ | Carried? |  |

|  |
| --- |
| 4. Maintenance logbooks |
| CAA logbooks? |  | If not using CAA logbooks, identify which logbooks are being used |       |

|  |  |  |
| --- | --- | --- |
| 4.1 Aircraft logbook (CAA 2101)  | Leading particulars recorded correctly? |  |
| 91.605(g)(1) | **Operator**  | Current operator and maintenance programme correctly identified? |  |
| **Section 1** 91.605(a) | **Scheduled maintenance record** | All due maintenance performed at intervals specified? |  |
| **Section 2** | **Service record** | All maintenance due identified? |  |
| Any ICAs for mods / role equipment included in programme? |  |
| Escalation requirements being met? |  |
| **Section 3** | **Maintenance record**  | Accurate, correctly recorded and completed? |  |
| 43.69 |  | Transferred from technical log? |  |
| 43.105 | **Release-to-service**  | All correctly completed, recorded and certified? |  |
| 43.113 | **Duplicate inspections**  | All carried out when required, recorded and certified? |  |
| 43.103(a)(4) | **Operational flight checks**  | All carried out when required, recorded and certified? |  |

|  | **Engine** | **Prop** |
| --- | --- | --- |
| **L** | **R** | **L** | **R** |
| 4.2 Engine (CAA 2158) & propeller (CAA 2110) logbooks  | Leading particulars recorded correctly? |  |  |  |  |
| 91.605(a) | **Operator** | Current operator & maintenance programme correctly identified? |  |  |  |  |
| 91.603(c) | **Overhaul periods** | TBO/Calendar overhaul periods within limits? |  |  |  |  |
| **Section 1** | **Service record** | All maintenance due identified? |  |  |  |  |
| Any ICAs for modifications/role equipment included in programme? |  |  |  |  |
| Escalation requirements being met? |  |  |  |  |
| **Section 2** | **Maintenance record** | Accurate, correctly recorded and completed? |  |  |  |  |
| 43.105 | **Release-to-service**  | All correctly completed, recorded and certified? |  |  |  |  |
| 43.113 | **Duplicate inspections**  | All carried out when required, recorded and certified? |  |  |  |  |
| 43.115 | **Engine performance checks**  | Performed and recorded per manufacturer’s requirements? |  |  |  |
| **Section 3** | **Engine component record**  | All recorded and within limits (including overhaul)? |  |  |  |
| 43.115 | **Propeller calendar inspections**  | Performed, recorded & certified per AC? |  |  |  |
| **2158 Section 42110 Section 3** | **ADs (including prop governor)** | All current & applicable, assessed, recorded & certified? |  |  |  |  |
| **ADs (repetitive)** | All current & applicable, assessed, recorded & certified? |  |  |  |  |
| **2158 Section 52110 Section 4** | **Manufacturers/vendor service information record** | All correctly completed, recorded and certified? |  |  |  |  |
| **2158 Section 62110 Section 5** | **Modification/STC record** | All correctly completed, recorded and certified? |  |  |  |  |

|  |
| --- |
| 4.3 Aircraft airworthiness directives, aircraft modification, engine and propeller installations (CAA 1464) |
| **Section 1** | **ADs** | All current & applicable to the aircraft. Assessed, recorded & certified? |  |
| **Section 2** | **Manufacturers/vendors’ service information** | All maintenance performed or assessed in response to manufacturer’s service information. Appropriately recorded? |  |
| **Section 3** | **Modification/STC record**  | All currently installed onto the aircraft and its components. Appropriately recorded and certified? (also see section 5 of this form) |  |
| **Section 4** | **Record engine/propellers. installed**  | Current? |  |
| **Section 5** | **Repetitive ADs** | All current & applicable to the aircraft. Assessed, recorded & certified? |  |
| **Section 6** | **Repetitive out of phase**  | All applicable checks / inspections carried out, recorded & certified? |  |
| 91.605 | Radio station |  | Alt sys & reporting equip |  | Compass swing |  | First aid kit |  |
| ELT battery |  | Floatation equipment |  | CO Detector |  | C of G/Weighing |  |
| Fire Extinguisher(s) |  | SSR transponder |  | ELT |  |  |
|  | **Manufacturer’s inspections** | Special inspections carried out and recorded? |  |
|  |  | Calendar inspections carried out and recorded? |  |
|  |  | Aging aircraft program requirements carried out and recorded? |  |
| **Section 7** | Record of lifed components installed | All recorded and within limits (including overhaul)? |  |
| **Section 8**91.605(e)(9) & (10) | **Weight & balance** | Summary correct? (also see Section 2 of this checklist) |  |
| **Empty weight** |       |
| **Arm** |       |
| **Moment** |       |

| 5. Part 39 – Airworthiness directive status (appropriate for components currently installed) |
| --- |
| Aircraft general | DCA/GEN/5A | thru |       |  |
| Airframe | DCA/      | thru |       |  |
| Gliders general | DCA/GLIDER/1 | thru |       |  |
| Engine general | DCA/ENG/1 | thru |       |  |
| Engine(s) | DCA/      | thru |       |  |
| Electrical equipment – reciprocating engines | DCA/ELECT/1 | thru |       |  |
| Propeller(s) | DCA/      | thru |       |  |
| Woodward propeller governors | DCA/WOOD/101 | thru |       |  |
| Role equipment – aeroplanes | DCA/ROLE/1 | thru |       |  |
| Aircraft seats and harness | DCA/SEAT/1 | thru |       |  |
| Avionics | DCA/RAD/1 | thru |       |  |
| Brakes and wheels | DCA/BRAKE/1 | thru |       |  |
| Carburettors and injection systems | DCA/MA/1 | thru |       |  |
| Electrical equipment – aircraft general | DCA/ELECT/3C | thru |       |  |
| Emergency equipment | DCA/EMY/1 | thru |       |  |
| Fuel System equipment | DCA/FS/1A | thru |       |  |
| Instruments and automatic pilots | DCA/INST/1 | thru |       |  |
| Any current AMOCs – list using 4 digit ID no. |       |

|  |
| --- |
| 6. STCs, modifications or repairs recorded since the last review (state nil if none) |
| **STC, modification or repair ref. no.** | **Description** | **Date incorporated** | **Release-to-serviceLAME or authorisation no.** |
|       |       |       |       |
|       |       |       |       |
|       |       |       |       |
|       |       |       |       |
|       |       |       |       |
|       |       |       |       |
|       |       |       |       |
|       |       |       |       |
|       |       |       |       |
|       |       |       |       |
| All STCs, modifications & repairs correctly recorded, certified and applicable technical data iaw Part 21 App. D stated. |  |
| Have ICAs been included into the Maintenance Programme & identified in logbook CAA 1464 Section 3? |  |

|  |
| --- |
| 7. Aircraft physical inspection |
|  | **Satisfactory** |  | **Satisfactory** |  | **Satisfactory** |  | **Satisfactory** |
| Fuselage |  | Control surfaces |  | Systems |  | Power plant |  |
| Wings |  | Controls |  | Avionics |  | Propellers |  |
| Empennage |  | Cabin/cockpit |  | Electrics |  | Modifications |  |
| Landing gear |  | Instrument panel |  | Safety equipment |  | See remarks over page |
| 7.1 General condition inspection  | Aircraft is in satisfactory condition? |  |
| 7.2 Inoperative equipment | Physical check that placarding is correct? |  |
| 7.3 Overhaul and finite life components | Physical check/verification, where practicable, of serial no.’s correct? |  |
| 7.4 Aircraft identification and placards | Type certification ID plate fitted per 21.191? |  |
| Aircraft markings correct per 47.101? |  |
| Stainless steel identification plate fitted per 47.119? |  |
| Placards required by Part 26, Part 91, and flight manual (including supplements) fitted and legible? |  |

| 8. Part 91 Subpart F – Instruments and equipment requirements |
| --- |
| 91.503 | Location of instrument and equipment |  |
| 91.505 | Seating and restraints |  |
| 91.507 | Passenger information signs |  |
| 91.509 | Minimum instruments and equipment |  |
| 91.511 | Night VFR instruments and equipment |  |
| 91.513 | VFR communication equipment |  |
| 91.515 | Communication and navigation equipment – VFR over water |  |
| 91.517 | IFR instruments and equipment |  |
| 91.519 | IFR communication and navigation equipment |  |
| 91.521 | Category II and III precision approach equipment |  |
| 91.523 | Emergency equipment |  |
| 91.525 | Flights over water |  |
| 91.527 | Aircraft operations on water |  |
| 91.529 | Emergency locator transmitter |  |
| 91.531 | Oxygen indicators |  |
| 91.533 | Supplemental oxygen for non-pressurised aircraft |  |
| 91.535 | Supplemental oxygen for pressurised aircraft |  |
| 91.541 | SSR transponder and altitude reporting equipment |  |
| 91.543 | Altitude alerting system or device – turbojet or turbofan |  |
| 91.545 | Assigned altitude indicator |  |
| **All required instruments and equipment fitted and airworthy. Yes?** |  |

|  |  |  |
| --- | --- | --- |
| 9. Remarks | Extra page(s) attached? |  |
|       |
|       |
|       |
|       |

|  |
| --- |
| 10. Certification (Review cannot be certified with open defects) |
| Confirm review certified in aircraft logbook |  | **Signature**(Information in this form is true and accurate) |  | Dated |  |

|  |
| --- |
| **When saving this file to email, please name as: ‘RA for ZK-XXX 20XX’** |
| **Send this completed report form to** **ara@caa.govt.nz** |

|  |
| --- |
| 11. IA’s follow up actions (not mandatory to complete this section, see explanatory notes on last page) |
| 43.153(c) | Uncleareddefects recorded in Technical Log and Aircraft Logbook |  |
| 43.155(a)(1) | Review certification entered into Aircraft Logbook *Note: useful to include next review due date with certification* |  |
| 43.155(a)(3) | Enter due date of next review in technical log |  |
| 43.155(a)(4) | Certified checklist report sent to CAA within 7 days of certification  |  |
|  | **OR** – if review not certified, sent to CAA within 7 days of the 30 day expiry period  |  |

| 12. Part 91 Appendix A – Instrument and equipment specifications (see explanatory notes on last page) |
| --- |
| A.1 | Markings and placards |  | A.14 | Emergency equipment |  |
| A.2 | Fuel and oil markings |  | A.15 | Emergency locater transmitters |  |
| A.3 | Seating |  | A.16 | Oxygen |  |
| A.4 | Restraints |  | A.17 | Passenger oxygen masks |  |
| A.5 | Child restraint systems |  | A.18 | Crew members on-demand oxygen masks |  |
| A.6 | Aircraft lights |  | A.19 | Oxygen equipment |  |
| A.7 | Aircraft time-in-service recorders |  | A.20 | Protective breathing equipment (PBE) |  |
| A.8 | Pressure altimeters |  | A.21 | Crew member portable PBE |  |
| A.9 | Communication and navigation equipment |  | A.22 | Transponder equipment |  |
| A.11 | Category II and III equipment |  | A.23 | Altitude encoder equipment |  |
| A.12 | First aid kits |  | A.24 | Altitude alerting system or device |  |
| A.13 | Fire extinguishers |  |  |  |

|  |
| --- |
| 13. Part 135 Subpart F – Instruments and equipment (see explanatory notes on last page) |
| 135.355 | Seating and restraints |  | 135.361 | Instrument flight rules |  |
| 135.357 | Additional instruments |  | 135.363 | Emergency equipment |  |
| 135.359 | Night flight |  |  |  |

|  |
| --- |
| 14. Part 137 Subpart F – Instruments and Equipment (see explanatory notes on last page) |
| 137.255 | Seating and restraints |  | 137.259 | Additional equipment |  |
| 137.257 | Additional instruments |  |  |  |

|  |
| --- |
| 15. Recent maintenance providers / LAME’s (optional: see explanatory notes on last page) |
|       |       |       |       |
|       |       |       |       |
|       |       |       |       |

Explanatory notes for completing the Aeroplane Review Checklist Report

General, for all sections

* enter a **Y** in the appropriate column to indicate that the aircraft meets the applicable CAR requirements, or
* enter **N/A** if the requirement is not applicable to the aircraft or operation

Section 1

The type certificate data sheet the aircraft was type accepted into NZ under should be referred to, if applicable. See list in AC21-1.2. List the airframe, engine and propeller TCDS numbers and ensure the aircraft conforms with its type certificate.

Automatic time in service recorder required by 91.509(b) – enter details only when a time in service recorder is fitted.

Maintenance programme – see 91.605(a) – the aircraft must be maintained to either an approved maintenance programme, the manufacturer’s programme or an acceptable programme as applicable. See AC91-14.

Section 2

The person performing the review of airworthiness must record any new defects identified during the review in the technical log and in the appropriate maintenance logbook. Ref CAR43.153(c)

All defects require a clearing maintenance action before further flight – see Part 91.603.

The IA must sight satisfactory certified maintenance entries for all defects prior to certifying the review.

Section 3

Refer to the relevant manufacturers data for the latest flight manual revision status.

Flight manual supplements – a copy of all supplements applicable to the fitted aircraft equipment must be kept in the flight manual.

Section 4

Alternative maintenance logbooks other than CAA 2101, CAA 2158, CAA 2110 or CAA 1464 may be used. However, any alternative maintenance logbook must be acceptable to CAA.

L and R columns have been provided for twin engine aircraft. For single engine aircraft, use either column.

*Optional to complete listed individual CAA required inspections tick boxes.*

Section 5

Identify the airworthiness directive range for each type of component that has been recorded and certified in CAA 2158, CAA 2110, or CAA 1464. Also list any applicable AMOCs (using their 4 digit ID number)

Section 3 of this form also contains the check that the latest revision of each airworthiness directive has been recorded and certified in the appropriate logbooks.

The IA must check that the airworthiness directive record relates to the actual components fitted. Any airworthiness directives applicable to components replaced since the last review must have been considered.

Section 6

List all modifications/repairs embodied since the last review and check any applicable conformity inspections have been carried out by an appropriately authorised person.

Section 7

*Optional to complete listed individual physical inspection tick boxes providing 6.1 box competed.*

It is recommended that the IA retains a list of sampled overhaul and finite lifed components checked.

Aircraft markings – general exemption 98/EXE/69 applies provided the aircraft has not been painted, repainted, or remarked after 9 January 1998.

Section 8

*Optional to complete listed individual required instrument and equipment tick boxes providing bottom box competed.*

Beside each item:

* enter a **Y** to indicate that the item is present and the condition of the item is satisfactory, or
* enter **N/A** if the requirement is not applicable to the aircraft or operation, or
* where an item is a defect, enter **N** and enter the defect details in Section 2.

Section 9 List any appropriate remarks in this section, other than defects observed.

Section 10 If completing this report electronically, state ‘Certified in logbook’ in signature block or add signature picture.

Section 11 This section is an optional administrative checklist for the IA.

Section 12 to 14

These sections are optional. Relevant section(s) should be completed if any of the affected instruments or equipment have been replaced, or the aircraft role has changed within the last 12 months.

Section 15 Should be completed if the aircraft has had multiple maintenance providers since the last RA.