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|  | **CIVIL AVIATION AUTHORITY OF MALAYSIA***PIHAK BERKUASA PENERBANGAN AWAM MALAYSIA***APPLICATION FOR APPROVAL OF THE DESIGN OF MAJOR MODIFICATION AND THE DESIGN OF MAJOR REPAIR** *(Civil Aviation Regulation 2016)* |

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| **SECTION 0 – TYPE OF APPROVAL** |  |
| [ ]  Design of Major Modification (CAAM TC Holder Only) | [ ]  Design of Major Modification with TC /  TCDS Amendment (CAAM TC Holder Only) | [ ]  Design of Major Repair |  |
| **SECTION 1 – APPLICANT DETAILS** |  |
|  |  |
| 1.1 | Organisation Name | **:** |  |  |
|  |  |  |  |  |
| 1.2 | Address | **:** |                 |  |
|  |  |  |  |  |
| 1.3 | Design Organisation Approval Reference (if applicable) | **:** |  |  |
|  |  |  |  |  |
| 1.4 | Foreign Approval Details (if applicable) | **:** | Product Design Approval Holder (PDAH): |  |  |
| PDAH Design Organisation Approval No: |  |
| Approval Reference No: |  |
| Product Design Approval by: | [ ]  PDAH DOA [ ]  State of Design |
|  |  |  |  |  |
| **SECTION 2 – CONTACT DETAILS** |  |
|  |  |
| 2.1 | Name | **:** |  |  |
|  |  |  |  |  |
| 2.2 | Position | **:** |  |  |
|  |  |  |  |  |
| 2.3 | Correspondence Address | **:** |                 |  |
|  |  |  |  |  |
| 2.4 | Email | **:** |  |  |
|  |  |  |  |  |
| 2.5 | Phone/ Facsimile | **:** |  |  |

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| **SECTION 3 – IDENTIFICATION OF ACTIVITY** |
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| 3.1 | Major Modification | **:** | [ ]  Non- Significant[ ]  Significant  | [ ]  Including request to amend the Type Certificate and its data sheet to add the below listed new model(s) |  |
|  |  |  |  |  |  |
| 3.2 | Major Repair | **:** | [ ]  Standard |  |
|  |  |  |  |  |
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| **SECTION 4 – AFFECTED AERONAUTICAL PRODUCT IDENTIFICATION** |
|  |
| 4.1 | Single Type Design  | **:** | Type Certificate Holder |       |  |
| Type Certificate Data Sheet |       |
| Aircraft/ Product Type |       |
| Model (s) |       |
| Serial Number (s) |       |
|  |  |  |  |
| 4.2  | Multiple Type Designs | **:** | Provide an Approved Model List (AML) | [ ]  Attached AML  |  |
|  |  |  |  |  |  |
| **SECTION 5 – ORIGINAL APPROVAL (FOR REVISIONS OF PREVIOUS APPROVALS)** |
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| 5.1 | CAAM Approval number | **:** | This application is a request to revise Approval Number |       |  |
|  |  |  | Issued on |       |  |
|  |  |  |  |  |  |
| **SECTION 6 – DESCRIPTION** |
|  |  |  |
| 6.1 | Title | **:** |       |  |
|  |  |  |  |  |
| 6.2 | Description and Purpose | **:** |       |  |
|  |  |  |  |  |
| 6.3 | Affected Areas | **:** |       |  |
|  |  |  |  |  |
| 6.4 | Certification Basis and amendment level intended to comply(including environmental standards if applicable) | **:** | Please specify the applicable airworthiness code including environmental standards if applicable, e.g. CS-25.853 amendment 18, FAR23.015 amendment 23-15 |  |
|  |  |  |  |  |
| 6.5 | Justification | **:** |       |  |

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| 6.6 | List of Technical Fields | **:** | Please select from the list of technical fields provided on page 4 and 5. |  |
|  |  |  |  |  |
| 6.7 | List of Data (ref. no. and title) | **:** |       |       |  |
|       |       |
|       |       |
|       |       |
|       |       |
|  |  |  |  |  |
| 6.8 | List of Submitted Documents | **:** |                                |  |
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| **SECTION 7 – DECLARATION**  |  |
|  |  |  |  |  |
| *a.* | *I declare that the above particulars and documents (including in the endorsed attachment(s) to this form, if applicable) submitted with this application are true in every respect.* |  |
| *b.* | *I declare that data listed above (including in the endorsed attachment(s) to this form, if applicable) have been examined in accordance with established procedures and found to comply with applicable requirements of CAAM.* |  |
| *c.* | *I understand that I am submitting an application for which fees or charges will be levied by Civil Aviation Authority of Malaysia in accordance with Civil Aviation (Fees and Charges) Regulations 2016.* |  |
| *d.* | *I declare to be aware that fees or charges, as well as all associated costs must be paid whether or not the application is successful and that they are not refundable. Moreover, I declare that I am aware of the consequences of non-payment.* |  |
|  |  |  |
|  | Signature | : |  |  | Date | : |       |  |  |
|  |  |  |  |  |
|  | Name | : |       |  |  |
|  |  |  |  |  |
|  | Position | : |       |  |  |
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| **SECTION 8 – CAAM OFFICIAL USE ONLY** |  |
|  |  |  |  |  |
|  | Received by | **:** |  | **Date** | **:** |  |  |
|  |  |  |  |  |  |  |  |
|  | Approved by | **:** |  | **Date** | **:** |  |  |
|  |  |  |  |  |

**LIST OF TECHNICAL FIELDS**

Select the technical field(s) affected by the Modification or Repair

|  |  |  |
| --- | --- | --- |
| **Title** | **Selected** | **Technical Field** |
| **Flight and Human Factors** | **[ ]**  | Flight Test (for all the relevant airworthiness codes) |
| **[ ]**  | Handling Qualities |
| **[ ]**  | Performance |
| **[ ]**  | Human Factors |
| **[ ]**  | Human Machine Interface and Cockpit Integration |
| **[ ]**  | Flight Manual |
| **Flight Crew Data** | **[ ]**  | OSD Flight crew disciplines |
| **Structures** | **[ ]**  | Loads, Weight and Balance |
| **[ ]**  | Static Strength |
| **[ ]**  | Fatigue and damage tolerance |
| **[ ]**  | Materials & Manufacturing |
| **[ ]**  | Aero elasticity, Vibration and Buffeting |
| **[ ]**  | Crashworthiness |
| **[ ]**  | Decompression |
| **[ ]**  | Impact conditions |
| **Hydromechanical Systems** | **[ ]**  | Flight Control System [ATA 270 on Aeroplane / 670 on Rotorcraft] |
| **[ ]**  | High Lift System [ATA 275] |
| **[ ]**  | Hydraulics [ATA 290] |
| **[ ]**  | Landing Gear Systems and Wheels, Tyres & Brakes [ATA 320] |
| **[ ]**  | Fuselage Doors [ATA 520] |
| **[ ]**  | Helicopter Hoist installation |
| **[ ]**  | RAT Mechanical systems |
| **Electrical Systems** | **[ ]**  | Electrical Generation / Distribution  |
| **[ ]**  | EMC  |
| **[ ]**  | HIRF and Lightning Indirect Effects |
| **[ ]**  | Lightning Direct Effects |
| **[ ]**  | EWIS  |
| **[ ]**  | Lights |
| **[ ]**  | IFE / Power outlets (for passengers or crew) |
| **[ ]**  | Wireless transmission capabilities (for passengers or crew). |
| **Avionic Systems** | **[ ]**  | Autoflight systems (Includes auto-pilot, auto-throttle, flight guidance, flight envelope, stability, etc.) |
| **[ ]**  | Communications & Navigation & Surveillance (Includes air data systems, datalink, transponder, radio, environment surveillance systems (TCAS, TAWS, Weather Radar …), etc.) |
| **[ ]**  | Flight Management system |
| **[ ]**  | Indicating, Alerting & Recording systems and Diagnostic and Maintenance systems (Includes display systems, instrument and control panel, recorders, vibration/vehicle monitoring system, general computers, central warning systems, maintenance systems, etc.) |
| **[ ]**  | Integrated Modular Avionics |
| **[ ]**  | Includes IMA resources, databuses |
| **[ ]**  | Cybersecurity |

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| **Title** | **Selected** | **Technical Field** |
| **Powerplant Installation and Fuel Systems** | **[ ]**  | Engine, propeller and APU installation |
| **[ ]**  | Fuel Systems |
| **[ ]**  | Fuel Tank inerting |
| **[ ]**  | ETOPS / EDTO |
| **[ ]**  | Fire protection (unpressurised areas) |
| **[ ]**  | Volcanic Ash |
| **ECS** | **[ ]**  | Air conditioning and pressuration |
| **[ ]**  | Ice protection |
| **[ ]**  | Oxygen systems |
| **[ ]**  | Bleed air |
| **[ ]**  | Water and waste |
| **Noise, Fuel Venting and Emissions** | **[ ]**  | Noise |
| **[ ]**  | Emissions |
| **[ ]**  | Fuel venting |
| **Software and AEH** | **[ ]**  | DA for SW/AEH |
| **Cabin Safety** | **[ ]**  | Cabin Installation (including Emergency Medical Systems, VIP interiors, Crew Rest Compartments, Courier Compartments, etc.) |
| **[ ]**  | Flight Deck installation |
| **[ ]**  | Cargo compartments (installation & restraint) |
| **[ ]**  | Occupant crashworthiness/restraint |
| **[ ]**  | Fire Protection - pressurised areas (active and passive) |
| **[ ]**  | Occupant evacuation |
| **[ ]**  | Internal and External placards and markings. |
| **[ ]**  | Rotorcraft Human External Cargo Restraint |
| **[ ]**  | Security aspects |
| **DASA** | **[ ]**  | Development  Assurance and Safety Assessment |
| **Transmission** | **[ ]**  | Rotorcraft transmission |
| **ICA** | **[ ]**  | Instructions for Continued Airworthiness |
| **[ ]**  | Maintenance Review Board (MRB) process |
| **MMEL** | **[ ]**  | OSD MMEL disciplines |
| **FSTD** | **[ ]**  | OSD Sim disciplines |
| **Cabin Crew Data** | **[ ]**  | OSD Cabin crew disciplines  |
| **Maintenance certifying staff data** | **[ ]**  | OSD Maintenance Certifying Staff Disciplines |
| **Propulsion** | **[ ]**  | Engine certification |
| **[ ]**  | APU qualification |
| **[ ]**  | Propeller qualification |
| **[ ]**  | Electrical propulsion |

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| **INSTRUCTIONS** |
| SECTION 0 |
|  | Select the type of approval. The application for the Design of Major Modification and Design of Major Modification with TC / TCDS Amendment is applicable only for CAAM type certificate (TC) holder. |
| SECTION 1 |
| 1.1 | Enter the modification / repair approval holder organisation’s name.  |  |
| 1.2 | Enter the organisation’s registered address. |  |
| 1.3 | If applicable, enter the Design Organisation Approval reference. |  |
| 1.4 | If applicable, enter the information regarding product design approval holder’s original approval of the modification / repair. Please provide the evidence of approval and supporting letter from the State of Design where necessary. |  |
| SECTION 2 |
| 2.1 | Enter name of person to be point of contact for this modification / repair. |  |
| 2.2 | Enter the position in the organisation. |  |
| 2.3 | Enter the correspondence address (if different from 1.2). |  |
| 2.4 | Enter the email address. |  |
| 2.5 | Enter the phone and facsimile number. |  |
| SECTION 3 |
|  | Select the appropriate type of activity. Please refer CAD 8104 paragraph 8 for Significant and Non-significant criteria. |  |
| SECTION 4 |
| 4.1 | For a single type design, specify the information related accordingly. |  |
| 4.2 | For a multiple type design, provide an AML with similar information requested in 4.1 |  |
| SECTION 5 |
| 5.1 | For application of revision / amendment of modification / repair, please indicate the information on original approval number. |  |
| SECTION 6 |
| 6.1 | Specify the title for this modification / repair. The title should reflect the design change / repair being made. |  |
| 6.2 | Specify the description and purpose of the design change / repair. In case of amendment / revision please indicate the reason for amendment / revision. |  |
| 6.3 | Specify the affected area of the design change / repair. |  |
| 6.4 | Specify the proposed airworthiness standards, including environmental standards if applicable, to which the proposed modification / repair is designed and with which it is intended to comply. |  |
| 6.5 | Specify the justification or make reference to a justification document for the modification / repair compliance to applicable certification basis |  |
| 6.6 | Please select from the list of technical fields related to the design change provided on page 4 and 5. |  |
| 6.7 | Specify the list of data applicable for the design change / repair (e.g. certification programme, classification, substantiating documents, drawings, installation instructions, service bulletins, aircraft flight manual supplement, instructions for continuing airworthiness etc.).If necessary, the list maybe provided as an attachment to the application form. The attachment must be endorsed by the applicant. |  |
| 6.8 | Specify the list of submitted documents to CAAM.If necessary, the list maybe provided as an attachment to the application form. The attachment must be endorsed by the applicant. |  |
| SECTION 7 |
|  | The declaration should be signed by Head of Design Organisation / Continuing Airworthiness Manager or senior manager responsible in managing continuing airworthiness data within the organisation. Please specify all required information. |  |
| SECTION 8 |
|  | To be filled up by CAAM. |  |