|  |
| --- |
| Section 1: Operator’s Details |
| Operator  |  | AOC No.:  |  |
| Date:  |  | Location: |  |
| Contact Person: |  | Aircraft Type/Model: |  |
| Phone/Email: |  | Engine Type: |  |
| ETOPS Diversion Time (Minutes) /Range (Nautical Miles)  | 90 [ ] /120[ ] /180[ ]  |
| **Section 2: ETOPS Evaluation** |
| **Note: S – Satisfactory, U/S – Unsatisfactory**References: CAR OPS 1.246, AMC OPS-1.245, IEM OPS-1,245(a), CAN 3-37 (EDTO)**Note: This form once completed is required to be submitted to DFS together with Airworthiness report.** |
| **S/N** | **Ref:** | **2.1 Administrative** | **S** | U/S | Findings |
| 2.1.1 | CAN 3-37 Para 37.11OPM Part 1, 3.1.3 & Chapter 7 & 19 Form AWR-OPS 027 | Application Letter & Statement of Compliance1. At least 3 Months prior ETOPS operations with required supporting Data
 |  |  |  |
| 1. Requested Maximum Diversion Time 90/120/180 Minutes
 |  |  |  |
| 2.1.2 |  | **Scheduled of Events** |  |  |  |
| 2.1.3 | CAN 3-37 Para 37.11 | Operational Approval  |  |  |  |
| The Operator shall submit the following:  |  |  |  |
| 1. Type Design Approval
 |  |  |  |
| 1. In-service experience
 |  |  |  |
| 1. Propulsion system reliability (operator and world fleet)
 |  |  |  |
| 1. Reliability of significant airframe system
 |  |  |  |
| 1. Appropriate Auxiliary Power Unit (APU) in-flight start programme
 |  |  |  |
| 1. Operator’s Reliability and Maintenance Programmes
 |  |  |  |
| 1. Conformance to latest Airworthiness Directives and Configurations, Maintenance and Procedures (CMP) Standards
 |  |  |  |
| 1. Training of maintenance personnel
 |  |  |  |
| 1. Any other data requested by the CAA
 |  |  |  |
| 2.1.4 | CAN 3-37 | **ETOPS Manual** |  |  |  |
|  |  | Manual submission at least 30 days before implementation of ETOPS Flight |  |  |  |

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| 2.1.5 | **Ref:** | **Airworthiness Status** | **S** | U/S | Findings |
|  | CAN 3-37 | **Compliance History\*** |  |  |  |
|  | 1. Grandfather’s Clauses
 |  |  |  |
| 1. Operator’s In-service Experience
 |  |  |  |
| 1. Airframe/Engine Combination
 |  |  |  |
| 1. Safety record, past performance
 |  |  |  |
| 1. Flight crew training/experience and maintenance programme
 |  |  |  |
| 2.1.6 |  | **Air Operators ETOPS Policies**  | **S** | U/S | Findings |
| 2.1.7 |  | Air Operators Responsibility and Authority on ETOPS |  |  |  |
| 1. Personnel in charge of ETOPS for Flight Operations & Engineering
 |  |  |  |
| 1. Qualifications Standards & Experience
 |  |  |  |
| 1. Job Specifications/Terms of Reference
 |  |  |  |
| 1. Delegation of Authority by Operators
 |  |  |  |
| 1. Acknowledgement of Authority
 |  |  |  |
| 1. Documented Evidence
 |  |  |  |
| **S/N** | **Ref:** | **2.2 ETOPS Program & System** | **S** | U/S | Findings |
| 2.2.1 |  | Qualified Flight Crew |  |  |  |
| 2.2.2 |  | Flight Crew Duties/Flight Deck Procedures |  |  |  |
| 2.2.3 |  | Qualified Dispatchers |  |  |  |
| 2.2.4 |  | Dispatch or Flight Release |  |  |  |
| 2.2.5 |  | Flight Watch/Flight Following Personnel  |  |  |  |
| 2.2.6 |  | ETOPS Certificated Aircraft |  |  |  |
| 2.2.7 |  | ETOPS Fuel Policy |  |  |  |
| 2.2.8 |  | Planned ETOPS Routes and Charts |  |  |  |
| 2.2.9 | ) | Pre - Departure MEL |  |  |  |
| 2.2.10 |  | En-route Equipments before ETOPS Entry Point (EEP) |  |  |  |
| 2.2.11 | Appendix 3 of AMC 20-6 | Suitable/Adequate En-route and Destination Alternates |  |  |  |
| 2.2.12 |  | ETOPS Operational Limitations/Restraints (if any) |  |  |  |
| 2.2.13 |  | Documented & Written Procedures |  |  |  |
| 2.2.14 |  | ETOPS Program & System Consistency |  |  |  |
| 2.2.15 |  | ETOPS Program Interfaces |  |  |  |
| 2.2.16. |  | Alternate Procedures\* if any |  |  |  |
| 2.2.17 |  | Assessment of Impacts on Procedures |  |  |  |
| 2.2.18 |  | Operators Voluntary Disclosure Program in the event of non-compliances |  |  |  |

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| **S/N** | **Ref:** | **2.2 ETOPS Program & System** | **S** | U/S | Findings |
| 2.2.19 |  | Effectiveness of Process Measurement Methods and Results  |  |  |  |
| 2.2.20 |  | Operators Resources to Support the entireETOPS Program |  |  |  |
| 2.2.21 |  | Operational Control |  |  |  |
| 2.2.22 |  | Safety Program (Ground and Flight) |  |  |  |
| 2.2.24 |  | Flight Load Manifest/Weight and Balance Control |  |  |  |
| **S/N** | **Ref:** | **2.3 ETOPS Manual** | **S** | U/S | Findings |
| 2.3.1 | Appendix 4 of AMC 20-6- 3 | General  |  |  |  |
| Print Quality |  |  |  |
| Clarity |  |  |  |
| Concise |  |  |  |
| Information Easily Located |  |  |  |
| Distribution & Availability |  |  |  |
| Approval & Control |  |  |  |
| 2.3.2 |  | **Contents** |  |  |  |
| Terminology |  |  |  |
| Flight Planning |  |  |  |
| Fuel Policy & Oil Supply |  |  |  |
| Communication & Navigation Facilities |  |  |  |
| Suitable/ Adequate/Alternate Aerodrome |  |  |  |
| Aerodrome Performance Data |  |  |  |
| Flight Crew Training |  |  |  |
| Flight Operations Personnel/Dispatcher Training |  |  |  |
| ETOPS Check Program |  |  |  |
| Operational Limitation |  |  |  |
| Flight Release Limitation |  |  |  |
| ETOPS Area of Operations  |  |  |  |
| ETOPS TAS  |  |  |  |
| Dispatch Weather Minima |  |  |  |
| Training and Check System |  |  |  |
| **S/N** | **Ref:** | **2.4 Training Evaluation** | **S** | U/S | Findings |
| 2.4.1 | AMC 20-6- 10 e. | Simulator Training Approval |  |  |  |
| 2.4.2 |  | Flight Crew Training & Evaluation Programme/Syllabus and Operating Manual |  |  |  |
| a. Introduction to ETOPS Regulations |  |  |  |
| b. Routes & Aerodrome – ETOPS Area of Operations |  |  |  |
| c. Performance |  |  |  |

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| **S/N** | **Ref:** | **(Contd.) 2.4 Training Evaluation** | **S** | U/S | Findings |
|  |  | * 1. Flight Planning (including Contingencies)
 |  |  |  |
| * 1. Flight Performance Progress Monitoring
 |  |  |  |
| d. Procedures |  |  |  |
| 1. Diversion Procedures & Diversion Decision Making
 |  |  |  |
| 1. Use of Nav & Comm. Systems
 |  |  |  |
| 1. Flight Crew Initial & Recurrent Training
 |  |  |  |
| 1. Use of Emergency Equipment
 |  |  |  |
| 1. Procedures in an event of change of En-route Alternates Conditions
 |  |  |  |
| 1. Understanding of ETOPS Critical Components
 |  |  |  |
| 1. Fuel Management
 |  |  |  |
| 1. Refresher Training Programme
 |  |  |  |
| 2.4.3 |  | Dispatcher Training Syllabus |  |  |  |
| 2.4.4 |  | Course Notes and Materials |  |  |  |
| 2.4.5 |  | ETOPS Instructor’s Competency |  |  |  |
| 2.4.6 |  | Designated Check Pilot for ETOPS |  |  |  |
| 2.4.7 | AMC 20-6- 10 e. (2)(H) | ETOPS Refresher Training Programme |  |  |  |
| 2.4.8 |  | ETOPS Check Programme 1. Standardised Flight Crew Practices & Procedures
 |  |  |  |
| 1. Designated Check Pilot for ETOPS
 |  |  |  |
| **S/N** | **Ref:** | **2. 5 Operation Dispatch Evaluation** | **S** | U/S | Findings |
| 2.5.1 |  | Number & Qualification of Personnel  |  |  |  |
| 2.5.2 |  | Communication, Equipment & Facilities |  |  |  |
| 2.5.3 |  | Documentation & Record Keeping |  |  |  |
| 2.5.4  |  | Flight Planning Capability |  |  |  |
| 2.5.5 |  | Flight Watch System |  |  |  |
| 1. VHF/Satellite data link/SATCOM
 |
| 1. Automated System Monitoring
 |
| 1. HF
 |  |  |  |
| 2.5.6 |  | Emergency Procedures e.g. Diversion  |  |  |  |
| 2.5.7 |  | Recurrent Training |  |  |  |
| **S/N** | **Ref:** | **2.6 Validation/Proving Flight (AMC 20-6 - 10 i.)** | **S** | U/S | Findings |
| 2.6.1 |  | Flight Planning by Dispatcher & Flight Crew1. Dispatcher Briefing
 |  |  |  |
| 1. Flight Crew Briefing
 |  |  |  |

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| **S/N** | **Ref:** | **2.6 Validation/Proving Flight (AMC 20-6 - 10 i.)** | **S** | U/S | Findings |
| 2.6.2 |  | Computerised Flight Plan (CFP |  |  |  |
| 1. ETOPS Entry Point (EEP)
 |  |  |  |
| 1. Equal-Time Point (ETP)
 |  |  |  |
| 1. Exit Point (EXP)
 |  |  |  |
| 2.6.3 |  | Dispatch Control – Flight Release Considerations |  |  |  |
| 1. MEL
 |  |  |  |
| 1. Forecast & En-route Weather
 |  |  |  |
| 1. Fuel
 |  |  |  |
| 1. Dispatch Weather Minima
 |  |  |  |
| 2.6.4 |  | Flight Crew Qualification & Currency |  |  |  |
| 2.6.5 |  | Fuel and Oil Supply |  |  |  |
| 1. Standard operational rules fuel policy
 |  |  |  |
| 1. Critical fuel reserve
 |  |  |  |
| 1. Critical fuel scenario
 |  |  |  |
| 2.6.6 |  | Communication and Navigation Facilities |  |  |  |
| 2.6.7 | AMC 20-6- 10d (5) | Suitable/Adequate/Alternate Aerodrome |  |  |  |
| 2.6.8 |  | Aerodrome Performance Data |  |  |  |
| 2.6.9 |  | Operational Limitations |  |  |  |
| 1. Area of Operation
 |  |  |  |
| 1. Flight Release Limitation
 |  |  |  |
| 1. Contingency Procedures
 |  |  |  |
| 2.6.10 |  | Flight Crew Pre-Flight Briefing |  |  |  |
| 2.6.11 | CAR OPS 1 Subpart Q | Flight Crew Member Flight, Rest and Duty Time |  |  |  |
| 2.6.12 |  | In-flight Normal ETOPS Procedures  |  |  |  |
| 2.6.13 |  | In- flight Abnormal Procedures (Simulated Scenario) |  |  |  |
| 1. Before EEP – Loss of One Critical ETOPS Component
 |  |  |  |
| 1. Before ETP – System Failures
 |  |  |  |
| 1. After ETP & Before EXP – Power plant related Failure
 |  |  |  |
| 2.6.14 |  | Flight Watch/Monitoring |  |  |  |
| 2.6.15 |  | En-route Facilities & Weather update |  |  |  |
| 2.6.16 |  | Crew Post Flight Actions |  |  |  |

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| **S/N** | **Ref:** | **2.7 ETOPS Compliance Statement** | **S** | U/S | Findings |
| 2.7.1 |  | Air Operators ETOPS Compliance Statement |  |  |  |
| 1. Oman CAA CARs
 |  |  |  |
| 1. ICAO Annex 6 Part 1 and DOC
 |  |  |  |
| 1. AC/AIC/CAAP/AIP
 |  |  |  |
| 1. Operations Specifications
 |  |  |  |
| 1. Directives (FO & AW)
 |  |  |  |
| 1. Manufacturers Recommendations
 |  |  |  |
| **S/N** | **Ref:** | **ETOPS certification** | **S** | U/S | Findings |
| 2.7.2 |  | ETOPS Evaluation Report |  |  |  |
| 2.7.3 |  | Temporary Approval (Prior to Proving Flight) |  |  |  |
| 2.7.4 | App 7 & AMC 20-6 App 7 of  | Accelerated ETOPS (Submission of Approval Plan at least 6 months before proposed ETOPS operations) \* |  |  |  |
| 2.7.5 |  | ETOPS Operational Approval (on satisfactorily completion of Proving Flight)Ops Spec should include Maximum Diversion Time and Range for Approved Aircraft Type & Registration |  |  |  |
| 2.7.6 |  | ETOPS Approval - Maximum Diversion Time |  |  |  |
| 1. 90 minutes
 |  |  |  |
| 1. 120 minutes
 |  |  |  |
| 1. 180 minutes (12 Consecutive months of operational in-service experience) \*
 |  |  |  |
| 1. >180 minutes
 |  |  |  |
| One-Engine-Inoperative Speed (KTAS under standards condition in still air) |  |  |  |
| 2.7.7 |  | Continued Surveillance: Flight Operations – ETOPS Audits and En-route Inspections (Random and Planned Audits)  |  |  |  |
| Mandatory Occurrence Report for Abnormality. (Fleet Average in Flight Shut Down (IFSD) Rate |  |  |  |
| Voyage Report that can Affect ETOPS |  |  |  |
| 1. ETOPS Proving Flight Report
 |  |  |  |
| 1. Assessment of Operator’s ETOPS Status
 |  |  |  |
| 1. Assessment of Operation Dispatch Centre and Flight Watch/Flight Following
 |  |  |  |
| 1. Continuation of Training Evaluation
 |  |  |  |

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| **Note 1: Airworthiness issues should be discussed with Airworthiness Inspector prior to ETOPS Proving/Audit flight.****Note 2: ETOPS Approval shall be authorised and signed by Director Aviation Safety & Security****Note 3: \* If applicable** |
| **Section 3: Result** |
| **Remarks:****Follow up required: YES** [ ]   **NO** [ ] **ETOPS APPROVAL: 90 MINS** [ ] **120 MINS** [ ]  **180 MINS** [ ]  **>180 MINS Specify** [ ] ………… |

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| --- | --- | --- |
| **Flight Operations Inspector’s Name** | **Signature** | **Date:** |
|  |  |  |

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| **Flight Operations Inspector’s Name** | **Signature** | **Date:** |
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| **Director Flight Safety Name** | **Signature** | **Date:** |
|  |  |  |