

SECTION II ETOPS NOTES FOR COMPLETION

1. Applicability

Extended Operators (ETOPS) applies to operators wishing to use twin-engined aircraft more than 60 minutes' flying time from a suitable diversion aerodrome. Such routes could be long ocean crossings, polar routes or routes where there are limited diversions available, E.g. trans-Siberia.

The requirements for Operator Approval to carry out ETOPS are laid out in MCAR-OPS 1 and EASA AMC 20-6. Additional guidance can be found in CAP789.

ETOPS is a major process, which will involve all aspects of a company's operation. It is therefore strongly recommended that Flight Operations Department be contacted before submitting an application. It is likely that MNPS, RVSM and RNP-10 approval will also be required.

2. Operator's ETOPS Operations Manual Matrix

Section IV of this application form is the Operator's ETOPS Operations Matrix. All applicants should complete Column 4 of this matrix in full. If more than one type of aircraft/fleet is included in a single application a complete matrix should be included for each aircraft/fleet.

Failure to complete the ETOPS Operations Manual Matrix may result in a delay in processing the application.

3. Documents to be included with the application

Copies of all documents referred to in Column 4 of the Operator's ETOPS Operations Manual Matrix should be included when returning the completed application form to the Civil Aviation Department. Original documents are not required, photocopied are sufficient. Do not send complete manuals, only the relevant sections/pages are required.

The issue of an ETOPS approval will incur a charge. Details of charges can be found in MCAR-187

Failure to include all relevant documentation and the required fee may result in a delay in processing the application.

SECTION III SUBMISSION, PAYMENT AND ENQUIRIES

Address for submission and enquiries:

Flight Operations Section
 Civil Aviation Department
 11th Floor, Velaanaage,
 Ameer Ahmed Magu,
 Male', 20096
 Republic of Maldives

 Tel: 3324983
 Fax: 3323039
 Email: safety@aviainfo.gov.mv
 Web: www.aviainfo.gov.mv

Send your completed application form to Civil Aviation Department together with MRF/US\$ being the fee payable in accordance with MCAR-187

Cheques should be made payable to 'Civil Aviation Department' and cheques should be drawn on a bank in the United States of America or a bank in the Maldives. If the person wishes to pay by Telex Transfer, the bank details of CAD is available upon request.

| | |
|------------------|------------|
| CAD use only | |
| Receipt No. | Date |

SECTION IV SIGNATURE BLOCK

| | |
|-----------------------|--|
| Signature: | |
| Name (BLOCK LETTERS): | |
| Appointment: | |
| Date: | |

Please note a **minimum of 120 working days** will normally be required to process and issue an ETOPS approval – if data is missing or omitted the process may take considerably longer.

SECTION V APPLICANT'S ETOPS SUBMISSIONS MATRIX

Please complete your review of your Operations Manual. The ETOPS flight operations minimum requirements are given in the table below.

Enter the Operations Manual references in the last column and return the matrix, together with photocopies of the relevant pages of the Operations Manual, to the address given in paragraph 4 of Section II.

| Operations Manual | Subjects | Requirements | Operator's Operations Manual Reference or Document Reference |
|---------------------------|--|--|--|
| Part A General | Documents/regulations used in compiling ETOPS/Manual/Procedures. | MCAR-OPS 1 EASA AMC 20-6 FAA AC 120-42B | |
| | Brief description of ETOPS. | | |
| | Definitions. | Extended Operations. Adequate aerodrome. Approved one-engine inoperative cruise speed. Threshold distance/time. Adequate ETOPS en-route alternate. Equal time points. Rule distance/time ETOPS segment. ETOPS significant system. Maximum approved diversion time. Dispatch. | |
| | Criteria. | Company AOC defined operating area. List of certified aircraft types/engine combinations. | |
| | Approval. | Approved diversion time. | |
| | Qualifications. | Crew qualifications. ETOPS qualified dispatcher personnel. ETOPS qualified operations staff. ETOPS qualified maintenance personnel. | |
| | Training (Initial and Recurrent) and Checking. | Flight crew training and Operations Manuals. Flight crew currency requirements. | |
| | ETOPS Authorisation. | Commander's responsibilities. Statement to show when ETOPS are allowed. | |

| Operations Manual | Subjects | Requirements | Operator's Operations Manual Reference or Document Reference |
|---------------------------------------|--|---|--|
| Part A General (continued) | ETOPS Flight Preparation and Planning. | Aircraft serviceability and MEL. Communication and navigation facilities. Critical fuel scenario. ETOPS alternate aerodrome selection. ETOPS alternate planning minima. Pre-dispatch and post-dispatch weather minima. Computerised flight plan. Delayed dispatch. Maintenance checks (pre-departure service check). Verification flights. | |
| | Flight Crew Procedures. | Crew responsibilities. Flight documentation/chart handling. Fuel management. Weather monitoring. Change of routing. Diversion decision-making. Icing. Crew workload management. | |
| Part B Type Specific | Type-related ETOPS Operations. | Identification of ETOPS aeroplanes. Types of ETOPS operations that are approved. Placards and limitations. One-engine inoperative speed. | |
| | Type-specific Planning Requirements. | | |
| | ETOPS Fuel Planning | Including critical fuel scenario. | |
| | MEL/CDL | ETOPS-specific MEL/CDL items. | |
| | Aeroplane Systems. | Performance data. Aerodrome technical differences, navigation fit, Communications fit. | |
| | Non-normal Procedures. | Navigation failures. Action to be taken on ETOPS-significant system failure. Low fuel scenario. Crew incapacitation | |

| Operations Manual | Subjects | Requirements | Operator's Operations Manual Reference or Document Reference |
|--|---|---|--|
| <p>Part C Route and Aerodrome Instructions</p> | <p>ETOPS Areas and Routes.</p> | <p>Approved area of operations. ETOPS en-route alternates. Performance restrictions and weather minima for en-route alternatives. Meteorological facilities/information. Low altitude cruise information. Route minimum diversion altitudes. MSA restrictions. Route-specific oxygen requirements.</p> | |
| <p>Part D Training</p> | <p>Ground, Simulator and Line Training.</p> | <p>General:</p> <ul style="list-style-type: none"> • ETOPS overview. • ETOPS regulations. • ETOPS type design approval. • Definitions. • Approved one-engine inoperative speed. • Maximum approved diversion time. • Operator's approved diversion time. • ETOPS area of operation. • ETOPS routes. • ETOPS alternate aerodromes and weather minima. • Navigation systems accuracy, limitations and operating procedures. • Meteorological facilities and information. • In-flight monitoring and procedures. • Computerised flight plan. • Charts and position plotting. • Equal time point. • Critical fuel. <p>Normal procedures:</p> <ul style="list-style-type: none"> • Flight planning and dispatch. • ETOPS fuel requirements. • Route alternate selection – weather minima. • MEL – equipment-specific. • ETOPS service check and technical log. • Pre-flight FSM set-up. • Flight performance progress monitoring. • Flight management, navigation and communication systems. • Aeroplane system monitoring. • Weather monitoring. • In-flight fuel management (to include independent cross-checking of fuel quantity) | |

| Operations Manual | Subjects | Requirements | Operator's Operations Manual Reference or Document Reference |
|--|---|---|--|
| Part D Training (continued) | | Non-Normal procedures: <ul style="list-style-type: none"> • Diversion procedures and diversion 'decision-making' • Navigation and communication systems, including appropriate flight management devices in degraded modes. • Fuel management with degraded systems. • Procedure for single and multiple failures in flight affection ETOPS sector entry and diversion decisions. • Operating on standby power. • Operational restrictions associated with system failures including any applicable MEL considerations. | |
| | ETOPS Simulator Training and Line Flying Under Supervision. | Pilot conversion course. Annual refresher course. | |
| | Flight Operations Staff and Dispatchers. | Outline of training syllabus to include: <ul style="list-style-type: none"> • ETOPS regulations. • Operational approval. • Aeroplane performance. • Diversion procedures. • Area of operation. • Fuel requirements. • Dispatch considerations: MEL, CDL, weather minima and alternate airports. • Delayed dispatch. • Documentation. | |

Any further Comments to Support Your Application: