

 <b>PACA</b> الهيئة العامة للطيران المدني	<b>Application for ETOPS Approval (Airworthiness &amp; Operational)</b>	<b>Form</b>	<b>AWR /OPS 27</b>
		<b>Edition</b>	<b>Original</b>
	<b>Public Authority for Civil Aviation- DGCAR</b>	<b>Revision</b>	<b>1</b>
		<b>Date</b>	<b>1/07/2019</b>

### 1. Applicant / Operator

<b>Name</b>
<b>Address</b>
<b>Tel</b>
<b>Contact person</b>
<b>AOC No.</b>
<b>Place of Delivery:</b>

**General:**

- (1) Accelerated ETOPS Operations Approval application, with the required supporting data, is submitted **six (6) months** before the proposed start of ETOPS.
- (2) In-Service ETOPS approval application, with the required supporting data, is submitted at least **three (3) months** prior to the proposed start of ETOPS with the specific airframe/engine combination,
- (3) The Operator's Approved Diversion Time is an operational limit that should not exceed either:
  - the Maximum Approved Diversion Time or,
  - the time-limited system capability minus 15 minutes.
- (4) Authorized maximum diversion time may be progressively increased as the operator gains experience on the particular airframe/engine combination. Not less than 12 consecutive months experience will normally be required before authorization of ETOPS up to 180 minutes maximum diversion time, unless the operator can demonstrate compensating factors,
- (5) Each operator requesting Approval to conduct ETOPS beyond 180 minutes should already have ETOPS experience and hold a 180 minutes ETOPS approval.

### 2. Aircraft

Aircraft Type			
Aircraft S/N			
Aircraft registration			
Mode S Address			
Engine Type/S/N	type	P/N	S/N
APU	type	P/N	S/N

### 3. Airworthiness

I	Airworthiness Applications attachment	Attachment No. Ref	Submitted		Inspector comments
			Yes	No	
a	<p>For <b>Accelerated ETOPS Operations</b>, an approval plan, which define:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> ETOPS diversion time,</li> <li><input type="checkbox"/> The proposed one-engine-inoperative cruise speed,</li> <li><input type="checkbox"/> How to comply with the ETOPS Airworthiness Processes,</li> <li><input type="checkbox"/> The resources allocated to each ETOPS process,</li> <li><input type="checkbox"/> How to establish compliance with the build standard required for Type Design Approval, e.g. CMP document compliance,</li> <li><input type="checkbox"/> Review Gates.</li> </ul> <p>For <b>In-Service ETOPS approval</b>, a report indicating the <b>operator's capability</b> to maintain and operate the specific airframe/engine combination for the intended extended range operation.</p>				

b	<p><b>Airworthiness documents showing ETOPS compliance, i.e.</b> Airframe/engine combination and engine compliance to ETOPS Type Design Build Standard (CMP).</p> <p>AFM, AFM Revision, AFM Supplement and Type Certificate Data Sheet (<i>Aircraft and Engine</i> TCDSs) showing ETOPS operation eligibility.</p> <p>If Aircraft/Engine are modified/or in process to be modified to meet ETOPS standards. Submit the documentation and records of modification.</p>				
c	<p><b>ETOPS Systems</b> Identification and listing of aeroplane propulsion system and any other aeroplane systems whose failure could adversely affect the safety of an ETOPS flight, or whose functioning is important to continued safe flight and landing during an aeroplane diversion.</p>				
d	<p><b>Maintenance and reliability programs</b> ETOPS maintenance and reliability programs developed to maintain an acceptable level of safety for the propulsion system and the ETOPS Significant Systems of the particular airframe/engine combination.</p>				
e	<p><b>Minimum equipment list (MEL)</b> showing the system redundancy levels appropriate to ETOPS Operations.</p>				
f	<p><b>Training</b> ETOPS initial and recurrent training program in place for CAMO and AMO personnel.</p>				
g	<p><b>Policies and procedures (P&amp;P)</b> Appropriate <b>CAME</b> procedures to be used by all personnel involved in the continuing airworthiness and maintenance of the aircraft, including supportive training program, duties, and responsibilities are developed by the CAMO.</p>				
h	<p>Plan for Validation of the Operator's ETOPS Airworthiness Processes</p>				
i	<p><b>Review Gates tracking plan</b> (for accelerated ETOPS approval)</p>				

II	Assessment of Eligibility for ETOPS Operations	AMC 20-6	Operator submitted compliance document/ attachment	Inspector review/ comments
1	Aircraft and System eligibility; Airframe/engine combination and engine compliance to ETOPS Type Design Build Standard (CMP).	Ch-III, 5.1/A/5&B/1		
2	The Type design approval, the Maximum Approved Diversion Time and demonstrated capability of any time-limited systems is reflected in the approved AFM or AFM-Supplement, and the Type Certification Data Sheet or Supplemental Type Certificate	Ch-II, Sec. 10; Ch-III, Sec. 5&6		
3	Engine ETOPS Type Design approval and Maximum Approved Diversion Time is reflected in the engine Type Certification Data Sheet or Supplemental Type Certificate.	Ch-II, Sec. 10; Ch-III, Sec. 5&6		
4	<b>Continuing Airworthiness (CA); Maintenance and Reliability Programs</b>	Ch-III, 5.1/A/3, & Appendix 8		
5	Specific ETOPS maintenance tasks identified by the (S)TC holder in the CMP document or equivalent is included in the maintenance program and identified as ETOPS tasks.	Appendix 8/3.1		
6	The maintenance program includes tasks to maintain the integrity of cargo compartment and pressurization features, including baggage hold liners, door seals and drain valve condition.	Appendix 8/3.1		
7	ETOPS service check is developed to verify the status of the aeroplane and the ETOPS significant systems	Appendix 8/3.1.1		
8	RELIABILITY PROGRAM is event oriented and incorporate;	Ch-III, 5.1/A/3, Appendix 8/3.2		
9	Occurrence reporting	Appendix 8/2		
10	Operator's assessment of propulsion systems reliability	Ch-III, 5.1/A/3, 5.1/B/4, or 6.3 as applicable & Appendix 8/3.2.2		
11	APU in-flight start program (if applicable)	Appendix 8/3.2.3		
12	Oil consumption program	Ch-III, 5.1/A/3, Appendix 8/3.2.4		
13	Engine Condition Monitoring program	Ch-III, 5.1/A/3, Appendix 8/3.2.5		
14	Verification program	Ch-III, 5.1/A/3, Appendix 8/3.2.6		

15	<b>MEL</b> The system redundancy levels appropriate to ETOPS is reflected in the Minimum Equipment List (MEL).	Appendix 4/2			
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16	<b>ETOPS Systems</b> Identification and listing of aeroplane propulsion system and any other aeroplane systems whose failure could adversely affect the safety of an ETOPS flight, or whose functioning is important to continued safe flight and landing during an aeroplane diversion.	Ch-I, Ch-2&Ch3			
17	<b>ETOPS training program</b> for personnel involved in the continuing airworthiness and maintenance of the ETOPS Fleet. ETOPS initial and recurrent training program is developed by the CAMO.	Appendix 8/5.1			
18	Competence of Continuing Airworthiness and Maintenance Personnel	Appendix 8/5			
19	Ensure that personnel involved in the continuing airworthiness management of the aircraft have knowledge of the ETOPS procedures of the operator.	Appendix 8/5			
20	Ensure that maintenance personnel that are involved in ETOPS maintenance tasks:	Appendix 8/5			
21	Have completed an ETOPS training program reflecting the relevant ETOPS procedures of the operator.	Appendix 8/5			
22	Have satisfactorily performed ETOPS tasks under supervision, within the framework of the CAR-145 approved procedures for Personnel Authorizations.	Appendix 8/5			
23	CAME addresses;				
24	General description of ETOPS procedures.	Appendix 8/4			
25	ETOPS maintenance program development and amendment.	Appendix 8/4			
26	ETOPS reliability program procedures	Appendix 8/4			
27	Parts and configuration control program	Ch-III, 5.1/A/3, Appendix 8/4			
28	Maintenance procedures that include procedures to preclude identical errors being applied to multiple similar elements in any ETOPS significant system.	Appendix 8/4			
29	Interface procedures with the ETOPS maintenance contractor, including the operator ETOPS procedures that involve the maintenance organization and the specific requirements of the contract.	Appendix 8/4			
30	Procedures to establish and control the competence of the personnel involved in the continuing airworthiness and maintenance of the ETOPS fleet.	Appendix 8/4			
h	<b>Validation of the Operator's ETOPS Airworthiness Processes</b>	Ch III, Sec-5, 5.2 & 5.3 or Sec-6, 6.4, as applicable			

1	Demonstration that the continuing airworthiness processes are in place and functions as intended.				
2	Demonstration that the ETOPS continuing airworthiness processes are being properly conducted.				
3	Demonstration competence to safely conduct and adequately support the intended operation.				
i	<b>Review Gates</b> (for accelerated ETOPS approval)	Ch III, Sec-5, 5.1, A/6			

1	Review gate process start six months before the proposed start of ETOPS and continues until at least six months after the start of ETOPS.				
2.	The review gate process help ensure that the proven processes comply with the provisions of the requirements and are capable of continued ETOPS operations				
j	<b>Specific Requirements</b>	7.2			
1	Approval for 90 minutes or less diversion time	7.2.1			
2	Approval for Diversion time above 90 minutes up to 180 minutes	7.2.2			
i	Considerations for aircraft with 120 minutes Maximum Approved Diversion Time	7.2.2(i)			
ii	Considerations for aircraft with 180 minutes Maximum Approved Diversion Time	7.2.2(ii)			
3	Approval for diversion time above 180 minutes	7.2.3 & 7.2.4 as applicable			

**4. Applicant Compliance statement**

I hereby declare that all documentation and information submitted have been verified and found in compliance with Regulation, its Implementing Rules and all other applicable requirements/procedures.

Maintenance Manager :

Signature:

Date:

Quality Manager:

Signature:

Date:

**FOR PACA USE ONLY**

Flight Safety Directorate Approval ( if applicable ).

Airworthiness Inspector Name: .....

Date : .....

Signature and Stamp :

Satisfactory for Airworthiness Approval    Yes    No