



## Application for ETOPS Approval

APPLICANT DETAILS			
Company Name			AOC No.
E-mail Address			
Contact Tel. No.	1		2
Mailing Address			
ETOPS Category Applied For (Tick where applicable)		Authorized Area of Operation ( Specify )	
<input type="checkbox"/> 75 minutes <input type="checkbox"/> 90 minutes <input type="checkbox"/> 120 minutes <input type="checkbox"/> 180 minutes <input type="checkbox"/> Application for Accelerated ETOPS			
AIRCRAFT DETAILS			
<i>(Attach extra papers if more aircrafts)</i>		Registration Mark	Engines
Aircraft Type	Manufacture Serial Number		Model:
			Serial No1.
			Serial No2.
			(reserved)
			(reserved)
ETOPS Type Design Approval for the Aircraft Type			
TC	STC	AFM	(AFM Supplement )
Compliance		ETOPS Manual	
No.		Reference	
Revision		Revision	
<i>(Aircraft Modification Status (Attach list of Modification if applicable)</i>			
Operator Experience and Reliability			
Total number of long range and/or normal operation with airframe/engine combination		Total number of airframe/engine hours and cycle	Unscheduled engine removal rate/1000 FH
No. of Diversion or turn backs	Inability to control the Engine or obtain desired power.	Problem with ETOPS critical system.	



<b>APU Reliability records</b>	<b>Record of major Events</b>	<b>A/C System components reliability records</b>	
<b>Maintenance Program</b>			
Reference number	Amendment Status	Date amended	
Identification of ETOPS task cards	ETOPS service checks	ETOPS related procedure	Non publication of tasks
<b>Engine Trend Monitoring</b>			
Contracted Organization			
Contact Reference			
Trend monitoring		Magnetic Chip Detector Monitoring	
Margin control		Engine Adjustment Procedure	
Spectrographic Oil Analysis		Responsibility	
Oil Consumption Record			
<b>Maintenance</b>			
Contacted Maintenance	AMO Name and Approval Reference		
In-house Maintenance	MOE/MPM ( Scope & Procedure Reference)		
Certifying Staff Training	Initial		Recurrent
Certifying Staff Authorization	Scope		Currency
Documents to be reviewed & submitted to BCAA	<input type="checkbox"/> Revised Maint. Magt. Manual <input type="checkbox"/> Certifying Staff Training Program <input type="checkbox"/> OMP & Reliability Program <input type="checkbox"/> Certifying staff records <input checked="" type="checkbox"/> ETOPO manual/OM <input type="checkbox"/> Maintenance Program <input type="checkbox"/> Risk assessment under SMS <input type="checkbox"/> Crew training ( OMD ) <input type="checkbox"/> FSTD to be used <input type="checkbox"/> OMA		<input type="checkbox"/> AFM , TC, STC AFM supplements <input type="checkbox"/> CMP <input type="checkbox"/> Oil consumption program <input type="checkbox"/> ECM Program <input type="checkbox"/> Parts control program <input type="checkbox"/> Any other documents required by BCAA <input type="checkbox"/> MEL (ETOPS specific ) <input type="checkbox"/> OM submissions matrix <input type="checkbox"/> Dispatch Flight Watch System and training



Communication and/or DATA link system installed and operational ( reference to appropriate documents AFM,TC or STC)			
Tick	Add Reference	Tick	Add Reference
<input type="checkbox"/> SATCOM		<input type="checkbox"/> CPDLC	
<input type="checkbox"/> VHF DL		<input type="checkbox"/> HF	
<input type="checkbox"/> ADS-B		<input type="checkbox"/> ADS- C	
Declaration by Quality Assurance Manager			
<i>By signing in the space provided below, the applicant declares that information provided in this application is true and correct.</i>			
Quality Assurance Manager Name			
Signature		Date	

**BCAA USE**

<b>AIRWORTHINESS COMMENTS:</b>		
<input type="checkbox"/> Accepted	<input type="checkbox"/> Not accepted	
AWI Name:	Signature :	Date :
<b>OPERATION COMMENTS</b>		
<input type="checkbox"/> Accepted	<input type="checkbox"/> Not accepted	
FOI Name:	Signature:	Date:
<b>DAL COMMENTS</b>		
DAL:	Signature:	Date:

\* NOTE – See attachment (Operations Manual Matrix)

## Attachment of Operations Manual Matrix for ETOPS

Operation Manual Part A		
Subjects	Requirements	Manual or document references
Brief description of ETOPS	ANTR OPS	
Definitions of:	Extended Operations	
	Adequate aerodrome	
	Approved one engine inoperative cruise speed	
	Approved one-engine inoperative max planed distance	
	Adequate ETOPS en-route alternate	
	Equal time points	
	ETOPS segments	
	ETOPS significant systems	
	Maximum approved diversion time	
	Dispatch	
Criteria	Company AOC defined operating area	
	List of certified aircraft type/engine combinations	
Approval	Approved diversion time	
Qualifications	ETOPS qualified dispatcher personnel	
	ETOPS qualification operations staff	
	ETOPS qualified maintenance personnel	
	Crew qualifications	
Training ( initial, recurrent and checks)	Flight crew training and operation manual	
	Flight crew currency requirements	
ETOPS Authorization	Commander responsibility	
	Statement to show when ETOPS is allowed	
ETOPS flight personnel and planning	-Aircraft serviceability and MEL	

## Attachment of Operations Manual Matrix for ETOPS

Operation Manual Part A (Continued)		
Subjects	Requirements	Manual or document references.
ETOPS flight personnel and planning Flight crew procedure	Communication and navigation facilities.	
	Critical fuel scenario	
	Critical fuel reserve ETOPS alternate aerodrome	
	selection	
	ETOPS alternate planning minima	
	Pre-dispatch and post-dispatch weather minima	
	Computerized flight plan	
	Delayed dispatch	
	Maintenance check ( pre-departure service checks )	
	Verification flights	
Flight crew procedure	Crew responsibility	
	Flight documentation/chart handling	
	-Fuel management	
	- Weather monitoring	
	-Change of routing	
	-Diversion decision-making	
	-Icing	
	-Crew workload management	

## Attachment of Operations Manual Matrix for ETOPS

<b>Part B Type Specific</b>		
<b>Subjects</b>	<b>Requirements</b>	<b>Manual or document references.</b>
Type-related ETOPS Operations	-Identification of ETOPS aero plane	
	-Type 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	
Aero plan system	-Performance data	
	-Aero-plan technical differences -	
	Navigation fit	
	-Communication fit	
Non-normal procedure	-Navigation failure	
	-Action to be taken on ETOPS – significant system failure	
	- Low fuel scenario	
	-Crew incapacitation	

<b>Part C - Route and Aerodrome instructions</b>		
<b>Subjects</b>	<b>Requirements</b>	<b>Manual or document references.</b>
ETOPS areas and Routes Ground , Simulator and Line Training	Approval area of operations	
	ETOPS en-route alternates	
	Performance restrictions and weather minima for en-route alternates	
	Metrological facility/information	
	Low altitude cruise information	
	Route minimum diversion altitude	
	MSA restrictions	
	Route specific oxygen requirements	

## Attachment of Operations Manual Matrix for ETOPS

Part D - Training		
Subjects	Requirements	Manual or document references.
Ground , Simulator and Line Training	General	
	ETOPS overview	
	ETOPS regulations	
	ETOPS type design approval	
	Definitions	
	Approved one engine inoperative speed	
	Maximum approved diversion time	
	Operator approved diversion time	
	ETOPS area of operation	
	ETOPS routes	
	ETOPS alternate aerodromes and weather minima	
	Navigation systems accuracy ,limitations and operating procedure	
	Meter logical facilities and information	
	Inflight monitoring and procedure	
	Computerized flight plan	
	Charts and position plotting	
Equal time point		
Critical fuel		

Part D – Training - Normal procedure		
Subjects	Requirements	Manual or document references.
	Flight planning and dispatch	
	ETOPS fuel requirements	
	Route alternate selection- weather minima	
	MEL –equipment’s specific	
	ETOPS service check and technical log	
	Pre-flight FMS set-up	
	Flight performance progress monitoring Flight management , navigation and communication system	
	Aeroplane system monitoring	
	Weather monitoring In-flight fuel management ( to include independent cross-checking of fuel quantity	

## Attachment of Operations Manual Matrix for ETOPS

Part D - Training - Non-normal procedure		
Subjects	Requirements	Manual or document references.
	Diversion procedure and diversion decision making	
	Navigation communication systems, including appropriate flight management devises in –degraded modes	
	Fuel management with degraded systems.	
	Procedure for single and multiple failures inflight affecting ETOPS sector and diversion decision.	
	Operating on-standby power.	
	Operational restrictions associated with system failure including any applicable MEL considerations.	
ETOPS Simulator Training and Line Training Under Supervision.	Pilot conversion course	
	Annual refresher course.	
Flight Operations Staff and despatcher	Out- line of training syllabus to include :-	
	ETOPS regulations	
	Operational approval	
	Aero plane performance	
	Diversion procedure	
	Area of operation	
	Fuel requirements	
	Dispatch considerations : -	
	MEL,CDL, weather minima and alternate airports	
Delayed dispatch		
Documentation		
<b>Any further comments or documents to support your application.</b> <i>(e.g. risk assessment documentation under the operator SMS)</i>		