

Element Performance Inspection (EPI)

5.1.8 Extended Range Operations with Two-Engine Airplanes (ETOPS) (AW)

Purpose of this Element (Air Carrier's responsibility): To ensure each ETOPS flight is conducted in accordance with their approved ETOPS Policies/Procedures as authorized in Operations Specifications D086.

Objective (FAA responsibility): To determine if the Air Carrier follows its ETOPS policies and procedures.

Specific Instructions for this EPI:

To accomplish this EPI the inspector shall verify the Air Carrier follows its policies and procedures for ETOPS program. The inspector shall verify that only trained and qualified personnel perform maintenance on ETOPS aircraft. The inspector shall verify technical data being used for ETOPS is current. The inspector shall verify the Air Carrier reports all system failures/abnormalities with the ETOPS system to the FAA/Certificate Holding District Office.

Related EPIs:

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| 1.1.1 Aircraft Airworthiness (AW) | 1.3.14 General Maintenance Manual / Equivalent |
| 1.1.2 Appropriate Operational Equipment (AW) | 1.3.15 Reliability Program (AW) |
| 1.2.1 Airworthiness Release / Logbook Entry (AW) | 1.3.19 Lower Landing Minimums (LLM) (AW) |
| 1.2.2 Major Repairs and Alterations Records (AW) | 1.3.20 Engine Condition Monitoring (AW) |
| 1.2.3 Maintenance Log / Recording Requirements (AW) | 1.3.21 Parts Pooling (AW) |
| 1.2.4 MIS Reports (AW) | 1.3.22 Parts Borrowing (AW) |
| 1.2.6 Aircraft Listing (AW) | 1.3.23 Short-Term Escalations (AW) |
| 1.3.1 Maintenance Program (AW) | 2.1.1 Manual Currency (AW / OP) |
| 1.3.2 Inspection Program (AW) | 2.1.2 Content Consistency Across Manuals |
| 1.3.3 Maintenance Facility / Main Maintenance Base (AW) | 2.1.3 Distribution Manuals (AW / OP) |
| 1.3.4 Required Inspection Items (RII) (AW) | 2.1.4 Availability (Manuals) (AW / OP) |
| 1.3.5 MEL / CDL / Deferred Maintenance (AW) | 4.1.1 RII Personnel (AW) |
| 1.3.6 AD Management (AW) | 4.2.1 Maintenance Training Program (AW) |
| 1.3.7 Outsource Organization (AW) | 4.2.2 RII Training Requirements (AW) |
| 1.3.8 Control of Calibrated Tools and Test Equipment (AW) | 4.4.1 Recency of Experience (AW) |
| 1.3.9 Engineering / Major Repairs and Alterations (AW) | 4.4.2 Display of Certificate (AW) |
| 1.3.10 Parts / Material Control / SUP (AW) | 4.4.3 Privileges Airframe and Powerplant (AW) |
| 1.3.11 Continuous Analysis and Surveillance (CAS) (AW) | 4.4.4 Privileges and Limitations for Repairmen |
| | 5.1.1 Line Stations (AW) |
| | 5.1.9 RVSM Authorization (AW) |

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To meet this objective, the inspector will accomplish the following tasks (at the inspection locations where applicable):

1. Review the FAA Guidance and Specific Regulatory Requirements (SRR) included in the supplemental information section of this EPI.
2. Review the associated SAI, with emphasis on the Controls Attribute section.
3. Review the ETOPS program policies and procedures related to ETOPS.
4. Discuss ETOPS procedures with appropriate personnel.
5. Review and assess appropriate records of ETOPS process.

To meet this objective, the inspector will answer the following questions:

1. Were the following performance measures met:

<i>1.1 The Air Carrier has complied with the ETOPS provisions of the Operations Specifications D086.</i>	<input type="checkbox"/> YES	If no, explain:
	<input type="checkbox"/> NO	
<i>1.2 The Air Carrier's ETOPS maintenance personnel are trained and qualified in accordance with its policies and procedures.</i>	<input type="checkbox"/> YES	If no, explain:
	<input type="checkbox"/> NO	
<i>1.3 The Air Carrier has maintenance accomplished in accordance with the standards of the ETOPS maintenance program.</i>	<input type="checkbox"/> YES	If no, explain:
	<input type="checkbox"/> NO	
<i>1.4 The Air Carrier's ETOPS maintenance technical documents were available to ETOPS maintenance personnel.</i>	<input type="checkbox"/> YES	If no, explain:
	<input type="checkbox"/> NO	
<i>1.5 The Air Carrier notified the CHDO of any system failures or abnormalities in accordance with its policies and procedures.</i>	<input type="checkbox"/> YES	If no, explain:
	<input type="checkbox"/> NO	
<i>1.6 The Air Carrier audits the ETOPS process to ensure policies and procedures are followed.</i>	<input type="checkbox"/> YES	If no, explain:
	<input type="checkbox"/> NO	
<i>1.7 Did the aircraft continue to meet ETOPS requirements throughout the entire flight?</i>	<input type="checkbox"/> YES	If no, explain:
	<input type="checkbox"/> NO	
<i>1.8 Were any instances in which an airplane no longer met ETOPS requirements properly recorded?</i>	<input type="checkbox"/> YES	If no or N/A, explain:
	<input type="checkbox"/> NO	
	<input type="checkbox"/> N/A	

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<i>1.9 All Extended Range Operations for Two Engine Airplanes (ETOPs) required equipment was onboard the aircraft and given an appropriate inspection in accordance with the Air Carrier's procedures.</i>	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
2. Were the ETOPS procedures followed?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
3. Were the ETOPS controls followed?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
4. Did the records comply with the Air Carrier's ETOPS policies and procedures?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO

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SUPPLEMENTAL INFORMATION

SRRs:

- 14 CFR 121.161 (a), “Airplane Limitations: Type of Route.”
- 14 CFR 121.197, “Airplanes: Turbine engine powered: Landing limitations: Alternate airports.”

Other CFRs and FAA Guidance:

- 14 CFR 21.3, “Reporting of Failure, Malfunctions and Defects.”
- 14 CFR 25.901, “Installation.”
- 14 CFR 25.903, “Engines.”
- 14 CFR 25.1309, “Equipment, systems, and installations.”
- 14 CFR 33.19, “Durability.”
- 14 CFR 33.75, “Safety analysis.”
- FAA Order 8300.10, Vol. 2, Chap. 82, “Evaluate FAR Part 121 Extended-Range Operations with Two-Engine Aircraft (ETOPS).”
- FAA Order 8300.10, Vol. 3, Chap. 43, “Monitor FAR Part 121 Extended-Range Operations with Two-Engine Aircraft (ETOPS).”
- HBAW 98-21, “Relief of Icing Fuel Penalties Associated with Critical Fuel Calculations for ETOPS.”
- HBAW 97-04, “Auxiliary Power Unit (APU) Data Collection.”
- HBAW 94-09, “Engine Change and Verification Flights for Extended Range Operation with Two-Engine Airplanes (ETOPS) – Guidance for Operations.”
- HBAW 97-03, “Auxiliary Power Unit (APU) Data Collection.”
- HBAW 94-03, “Engine Change and Verification Flights for Extended Range Operation with Two-Engine Airplanes (ETOPS) – Guidance for Operations.”
- HBAW 94-08, “Policy Changes to the ETOPS Configuration, Maintenance and Procedures Documents.”
- ETOPS Policy Letter EPL 95-1, dated Dec. 19, 1994.
- Operations Specifications paragraph D086.
- Refer to Advisory Circulars using a search engine (such as ATP Navigator or Summit).