

Extended Diversion Time Operations Workshop



ETP1

ETP2

Module 3 *Practical Exercise*



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EDTO Operational Approval of **EDTO** Airways

Your team is part of the Civil Aviation Authority of EDTO Airways

- Your State has established a 60 minute EDTO threshold for two engine aeroplanes and a 90 minute threshold for aeroplanes with more than two engines. Regulations are in place to support EDTO Maximum Diversion Time approval levels of 120 Minutes and 180 Minutes.
- EDTO Airways will be introducing a new fleet of WP-Millennium aeroplanes, and has submitted a letter of intent to apply for 180 Minute EDTO operational approval. The first aeroplane will be delivered in 8 months, and EDTO Airways plans to immediately commence revenue operations between Lisbon, Portugal and Fortaleza, Brazil.
- The WP-Millennium with MegaThrust MT2050 Engines is certified for up to 180 Minute EDTO capability by the State of Design. This aeroplane engine combination EDTO type design approval has been accepted by your State.

Figure 1: Proposed WP-Millennium Operation (60 Minute Threshold)

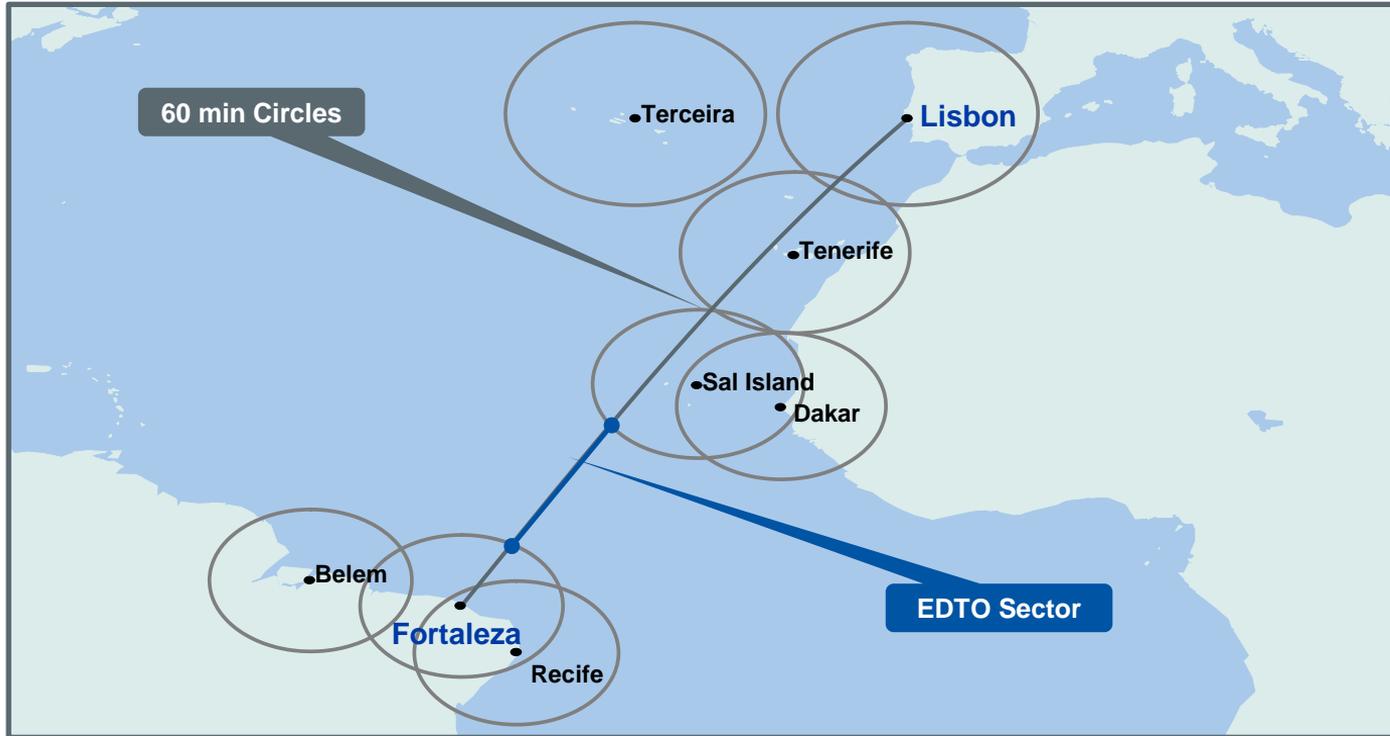


Figure 2: Proposed WP-Millennium Operation (120 Minute EDTO)

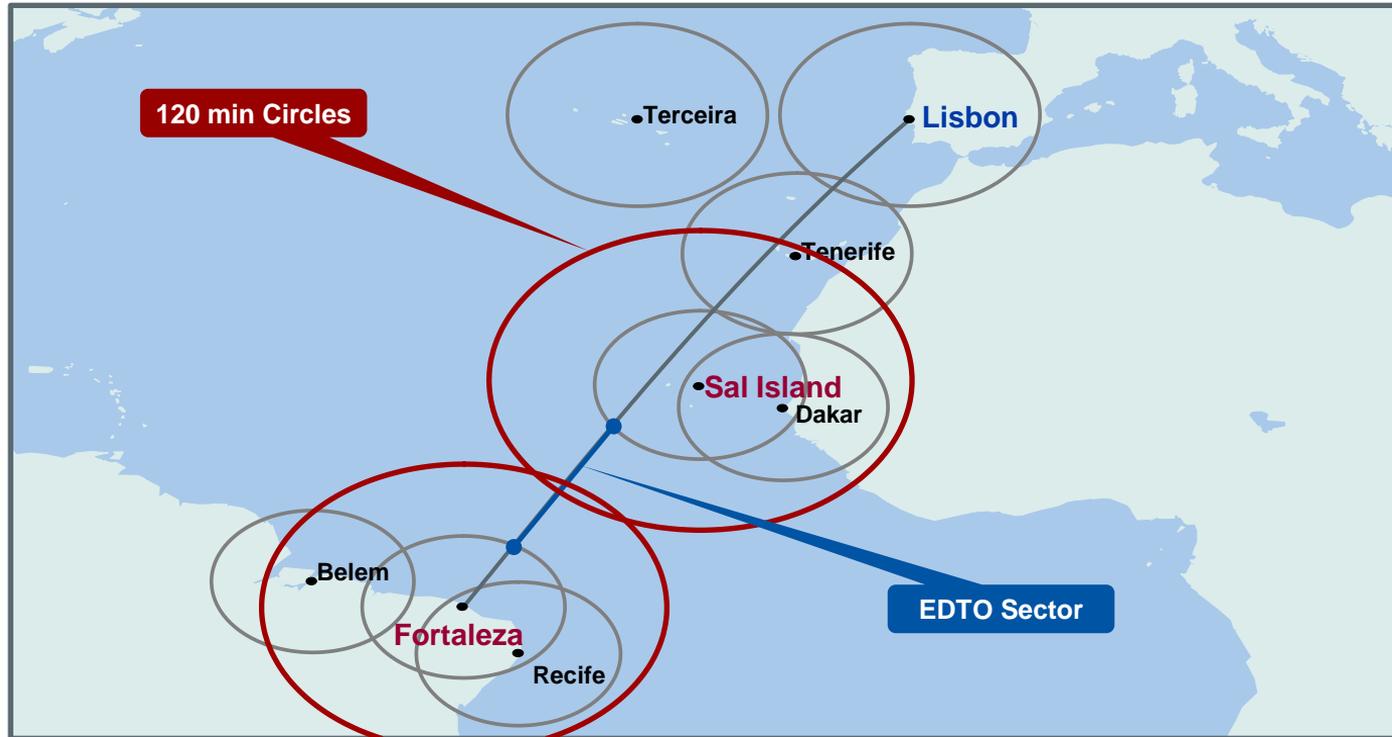


Figure 3: Proposed WP-Millennium Operation (180 Minute EDTO)



EDTO Operational Approval of **EDTO** Airways

- EDTO Airways is an experienced EDTO airline, which currently operates a fleet of WP-911/RG3350-89 aeroplanes under 180 Minute EDTO authority across the North Atlantic ocean between the North America and Europe and also on some Pacific oceanic routes.
- EDTO Airways will be introducing a total of four WP-Millennium aeroplanes over a one year period commencing in 8 months.
- The first two aeroplanes (WP001 and WP002) will be configured for 180 Minute EDTO in compliance with the applicable CMP document at delivery.
- The third and fourth aeroplanes (WP003 and WP004) will be delivered without EDTO capability, but EDTO Airways plans to upgrade one of these aeroplanes to at least 120 Minute EDTO capability within 2 years from the start of EDTO operations.
- Only the EDTO configured WP-Millennium aeroplanes will be maintained and operated as EDTO.

EDTO Operational Approval of **EDTO** Airways

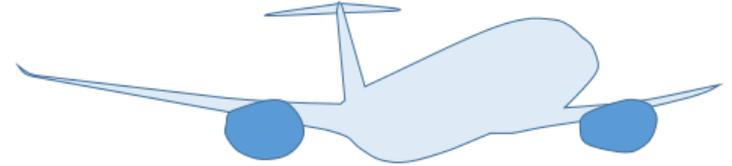
- All required EDTO processes and procedures for the planned WP-Millennium EDTO operations will be documented in the existing EDTO chapters of the EDTO Airways Flight Operations and Maintenance Organization Manuals
- The EDTO Validation flight is proposed to be the first EDTO commercial flight between LIS and FOR, witnessed by representatives from the Civil Aviation Authority. No planned simulated diversion will be performed.
- As the Aeroplane Flight Manual (AFM) for EDTO Airways is not yet available, an advance representative copy of the WP-Millennium EDTO compliance statement from another operator AFM has been provided for substantiation purposes.

Assignment – Team Breakouts

Review the elements of the EDTO letter of intent submission by EDTO Airways and discuss the following questions:

1. What inconsistencies and suggested updates to the EDTO Airways proposed approval strategy can you identify?
2. What compensating factors could be identified to support WP-Millennium EDTO approval in this situation?
3. What additional information will EDTO Airways need to provide to support their EDTO application?

Each team should designate a scribe to take notes of their discussions, and a spokesperson to summarize their answers to each question.



Team Breakouts (~ 30 Minutes)



- 1. What inconsistencies and suggested updates to the EDTO Airways proposed approval strategy can you identify?**
 - Since EDTO Airways is seeking EDTO approval at the start of operations, the Accelerated EDTO approval method is applicable not the service experience method.
 - Existing WP-911 EDTO processes and procedures will need to be validated for the new aeroplane type.
 - EDTO Airways flight and maintenance documentation updates should be approved by the authority not accepted.
 - While the AFM and TCDS can provide a statement of EDTO type design capability, the CMP document is needed to identify the additional requirements for EDTO.



2. What compensating factors could be identified to support WP-Millennium EDTO approval in this situation?

- Existing WP-911 EDTO processes and procedures in place
- EDTO organization and company culture in place
- Experience with long range overwater operations
- Experience in the operational area that the WP-Millennium will serve
- Experience with similar technology aeroplanes



3. What additional information will EDTO Airways need to provide to support their EDTO application?

- CMP document and evidence of compliance
- EDTO approval program schedule and process validation plan
- EDTO flight operations documentation and training plan
- EDTO maintenance documentation and training plan.
- Documentation of compensating factors to support accelerated EDTO approval

Other Observations ... and food for thought

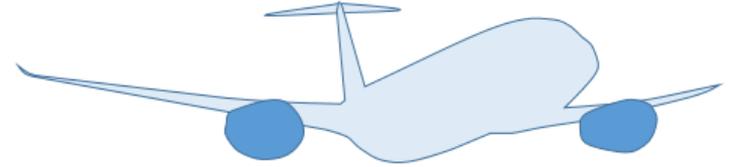
- While the LIS-FOR route is possible with 120 Minute EDTO, 180 Minutes provides additional operational flexibility and safety.
- It is acceptable to operate a mixed fleet of EDTO/non-EDTO aeroplanes with appropriate operational controls in place.
- It is generally acceptable for an experienced EDTO operator that the EDTO validation flight for a new aeroplane/engine combination is also the first commercial flight.
- Final manufacturer documents such as the AFM are typically not available until initial delivery, so it is appropriate and necessary for the airline to initially submit advance representative documents.



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End of Module 3 - Practical Exercise



Thank You and Well Done!!