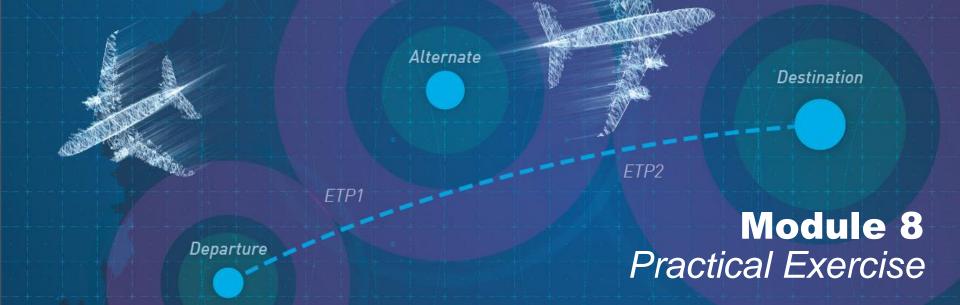
Extended Diversion Time Operations Workshop





Proudly in partnership with







Background



You are a part of the regulation development department of the Antarctica Civil Aviation Authority (ACAA).

Currently there are no EDTO provisions in the Antarctica Civil Aviation Regulations (ACARs). Two engine aeroplanes are limited to 60 minutes diversion time and no specific diversion time restrictions have been established for aeroplanes with more than two engines.



Current Regulation - ACAR 121.001



ACAR 121.001 - Aeroplane Limitations, Type of Route

No certificate holder may operate a two-engine aeroplane over a route that contains a point farther than 60 minutes flying time (at a one engine inoperative cruise speed, under standard conditions in still air) from an enroute alternate aerodrome.





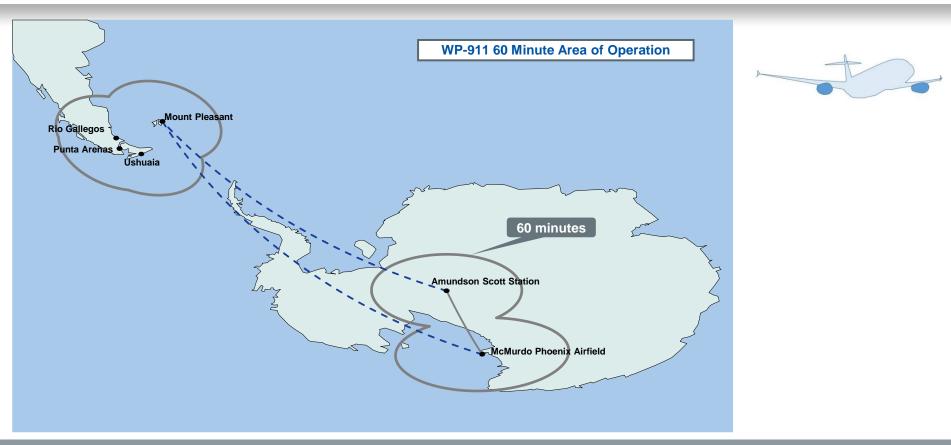




Ice Air, a subsidiary of EDTO Airways, currently conducts domestic cargo operations between McMurdo Phoenix Airfield (NZFX) and Amundson Scott Research Station (NZSP) using WP-911 Freighter aeroplanes.

The airline has a business opportunity to expand it's operations to Mount Pleasant, Falkland Islands (EGYP), which would be served by either the current fleet of WP-911s or WP-3 freighter aeroplanes on dry lease from parent company EDTO Airways.







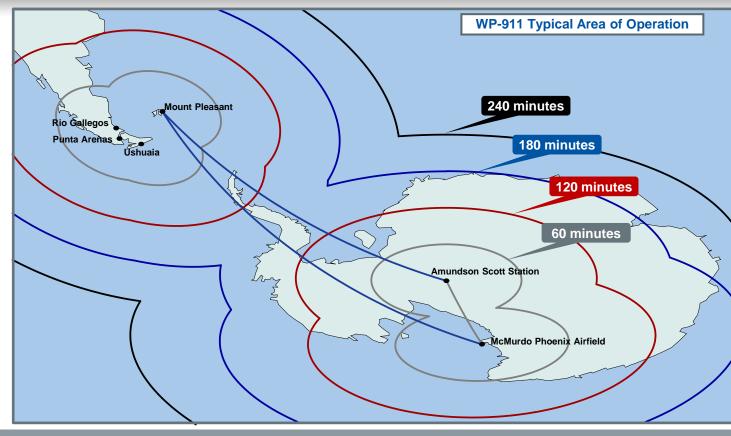




Develop recommendations for updating ACAR 121.001 to include EDTO provisions for all aeroplanes including:

- Threshold and Maximum Diversion Times for two engine aeroplanes
- Threshold and Maximum Diversion Times for aeroplanes with more than two engines
- Other supporting regulations and guidance materials





Note: The WP-911 is certified for up to 300 minute EDTO capability by the State of Design based on operations beyond 60 minutes.



Proposed Regulation Update



ACAR 121.001(a) - Aeroplane Limitations, Type of Route: Two Engine Aeroplanes

Unless authorized for EDTO, no certificate holder may operate a twoengine aeroplane over a route that contains a point farther than **## minutes** flying time (at a one engine inoperative cruise speed, under standard conditions in still air) from an enroute alternate aerodrome. The requirements for EDTO approval up to a Maximum Diversion Time of **## minutes** are provided in this part.





Suggested ACAR 121.001(a) <u>Threshold Time</u> for Two Engine Aeroplanes?

- 60 Minutes
- 180 Minutes
- 240 Minutes

- 300 Minutes
- Other Value
- No Limit









Suggested ACAR 121.001(a) <u>Maximum Diversion Time</u> for Two Engine Aeroplanes?

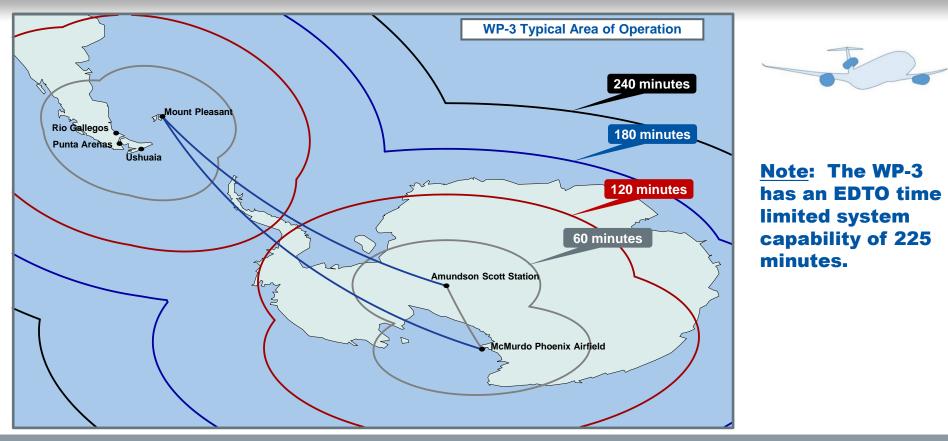
- 60 Minutes
- 180 Minutes
- 240 Minutes

- 300 Minutes
- Other Value
- No Limit







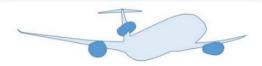


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ICAO EDTO Workshop – Module 8: Implementing EDTO Regulations



Proposed Regulation Update



ACAR 121.001(b) - Aeroplane Limitations, Type of Route: Aeroplanes with more than Two Engines

Unless authorized for EDTO, no certificate holder may operate an aeroplane with more than two engines over a route that contains a point farther than **## minutes** flying time (at an all engines operating cruise speed, under standard conditions in still air) from an enroute alternate aerodrome. The requirements for EDTO approval up to a Maximum Diversion Time of **## minutes** are provided in this part.

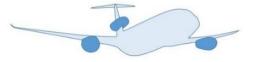




Suggested ACAR 121.001(b) **<u>Threshold Time</u>** for Aeroplanes with more than two engines?

- 60 Minutes
- 120 Minutes
- 180 Minutes
- 210 Minutes

- 225 Minutes
- 240 Minutes
- Other Value
- No Limit





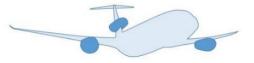




Suggested ACAR 121.001(b) <u>Maximum Diversion Time</u> for Aeroplanes with more than two engines?

- 60 Minutes
- 120 Minutes
- 180 Minutes
- 210 Minutes

- 225 Minutes
- 240 Minutes
- Other Value
- No Limit









What other supporting regulations will need to be included in this EDTO revision to the ACARs?



ICAO Reference: Annex 6 Part I, Definitions Standard Recommended Practice Guidance Material	STATE IMPLEME Difference Status (DS): ND: No Difference NA: Not Applicable SD: Significant Difference	Ţ		ON of EDTO SARPs Difference Categories (DC): A More exacting or exceeds B. Different in Character/Other means of compliance C. Less protective/partially implemented/not implemented
SECTION /PARAGRAPH	REGULATION REF	DS	DC	REMARKS
ABBREVIATIONS AND SYMBOLS EDTO – Extended diversion time operations				
CHAPTER 1. DEFINITIONS Extended diversion time operations (EDTO). Any operation by an aeroplane with two or more turbine engines where the diversion time to an en-route alternate aerodrome is greater than the threshold time established by the State of the Operator.				Additional acronyms, abbreviations and definitions can be found in the Glossery section of ICAO Doc 10085
Alternate aerodrome, An aerodrome to which an ancall may proceed when it becomes to be an at the aerodrome of intended landing where the necessary services and facilies are available, where aircrite and performance requirements can be met and when a the case of the service of the end of the service and the capecido the of tables are available, where aircrite are alternate aerodrome in the following <i>Eucode alternate</i> . An aternate aerodrome at which an aircraft would be able to land in the event that a diversion becomes necessary while en route.				





Any other considerations for EDTO rule deployment?



End of Module 8 - Practical Exercise





Thank You and Well Done!!

18/07/2019