



Agenda Item 6: Review of other technical matters
6.5 Relevant aspects of Annex 14

DOWN SLOPE OF THE RUNWAY STRIP LOCATED BEYOND THE LEVELLED PORTION

(Presented by the Dominican Republic)

SUMMARY

ICAO Annex 14, Volume I, Aerodrome Design and Operations, clearly indicates in Chapter 3, paragraph 3.4.15, the maximum allowable down slope in the area beyond the levelled portion of runway strips, but provides no limit for the down slope in this part of the strip.

Reference:

- Annex 14, Volume I, Chapter 3, paragraph 3.4.15

1. Introduction

1.1 Cross slopes of runway strips are very important for the case when aircraft run off the runway, since they will significantly affect the behaviour and direction of the displacement of the aircraft facing the anomaly, until it stops in a given point on the strips.

1.2 Since the final destination of the aircraft under these special circumstances is unknown, it is advisable to avoid significant level differences along the whole length of the strips that might increase the risks and, consequently, cause greater damage to the structure of the aircraft and to its occupants.

2. Analysis

2.1 We have noted that the absence of a specified value to limit the maximum allowable down slope in the runway strip area located beyond the levelled portion creates the possibility of having level differences of such a magnitude in this area (un cliff, for instance) that they could cause the fall of the aircraft, increasing the possibility of damage to the aircraft and, therefore, increasing the risk to the life of the occupants.

3. Conclusion and recommendation

3.1 To study the possibility of establishing a maximum limit for the down slope in the section of the runway strip located beyond the portion that has to be levelled, and if the Fifth Meeting of the

GREPECAS Aerodrome and Ground Aids/Aerodrome Operational Planning Subgroup deems it appropriate, submit it to ICAO through the corresponding channels so that it may be taken into account in a future amendment to Annex 14.

4. Suggested action

4.1 The Meeting is invited to take note of, review and comment on this working paper.

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