

**ICAO***International Civil Aviation Organization*Seventh Meeting of the Aerodromes Operations and
Planning Sub-Group (AOP/SG/7)*Bangkok, Thailand, 3 to 6 July 2023***Agenda Item 4: Provision of AOP in the Asia/Pacific Region****- Planning & Design of Aerodromes****REPORT OF APPLICATIONS OF SHIELDING PRINCIPLE IN
CIVIL AIRPORT CLEARANCE**

(Presented by China)

SUMMARY

The application of the shielding principle of airport OLS is very important for the safe and efficient operation of airport and local economic development. At present, the application of the shielding principle lacks relevant normative guidance. The ICAO Annex 14, Aerodromes and Airport Service Manual (Doc 9137), Part 6 - Control of Obstacles did not put forward specific shielding area and shielding method. It provides the application of shielding principle which may compromise safety risk to the operation of airport and restricts the application of shielding principle in various countries. Therefore, it is necessary to study the relevant rules and application methods of shielding principle in civil airport clearance.

The purpose of this paper is to develop a preliminary agreement on the rules and applications of shielding principle.

1. INTRODUCTION

1.1 The application of shielding principle is not only related to flight safety, but also closely related to economic development. Scientific and reasonable application of shielding principle is an important guarantee for flight safety and efficient operation of airport, and an important link of airport headroom protection. The establishment of relevant rules and application methods of shielding principle of airport OLS will help countries to understand and apply the shielding principle. The rules and methods of shielding should be clarified to further standardize and guide the application of shielding principle, avoid the appearance of ultra-high construction projects, reduce safety risks, and strengthen the management of headroom protection.

2. DISCUSSION

2.1 This paper discussed the application status and existing problems of the shielding principle of OLS in airport.

2.2 The shielding areas and methods should cover for the transition surface, take-off climbing surface, approach surface, inner horizontal surface and conical surface in the restricted surface of airport obstacles, and put forward the opinions on the shielding rules scheme and matters for attention.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) Review the study of shielding area, shielding method and matters that need attention; and
- b) Put forward the related opinions and suggestions of shielding principle.

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