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Sixth Meeting of the ICAO Asia/Pacific Search and Rescue Working Group (APSAR/WG/6)

Video Teleconference, 03 – 06 May 2021

Agenda Item 4: Asia/Pacific And Inter-Regional SAR Planning, Coordination and Cooperation

RESEARCH ON THE REGULATORY SYSTEM AND EMERGENCY MECHANISM OF MARITIME SEARCH AND RESCUE CIVIL AIRCRAFT

(Presented by China)

SUMMARY

An introduction to the work of maritime search and rescue from the East China Air Traffic Management Bureau of Civil Aviation of China

1. INTRODUCTION

1.1 In accordance with the requirements of the Civil Aviation Administration of China to supplement the "short board of emergency response capabilities", in response to the special geographical location of the East China Air Traffic Management Bureau, in order to ensure rapid response to maritime distress incidents of civil aircraft and organize effective search and rescue to avoid or reduce casualties, and to control the expansion of the situation, the East China Air Traffic Management Bureau started from the perspective of air traffic control. Since 2019, it has cooperated with the Civil Aviation Flight University of China to carry out a two-year research work on the maritime search and rescue civil aircraft air traffic control regulatory system and emergency mechanism.

2. DISCUSSION

Significance of Research

2.1 Clarified the organization and responsibilities of the East China Air Traffic Management Bureau in maritime search and rescue of civil aircraft, designed a search and rescue communication system model, strengthened the construction of air traffic control search plans and corresponding mechanisms, and improved search and rescue units, personnel, facilities, equipment, plan data, and Management of training and exercises, and proposed amendments to current domestic laws and regulations related to search and rescue civil aircraft.

Work introduction

2.2 At present, the East China Air Traffic Management Bureau plays the role of the regional search and rescue coordination center, and relevant departments and units assume their respective responsibilities. Among them, the responsibilities of the operation management center include: daily duty work, adopting a 24-hour duty system; participating in the preparation of search and rescue coordination plans in the region, and concretely implementing information notification and search and rescue coordination with relevant local government departments; in search and rescue operations, Responsible for information collection and exchange, search and rescue coordination. The air traffic control center's responsibilities include: initiating emergency response procedures in accordance with the response mechanism, implementing coordination procedures and notification procedures in accordance with the requirements of the search and rescue coordination center, and doing all emergency handling tasks in accordance with the unit's emergency response procedures. In addition, there are 10 air traffic control sub-bureaus (stations) in East China, as the search and rescue coordinating departments of various civil aviation provinces (cities, autonomous regions), undertaking daily duty work, adopting a 24-hour duty system; implementing information notification and search and rescue with relevant departments of the local people's government Coordination; in search and rescue operations, provide aircraft information in distress, control services and related regional meteorological services, and be responsible for receiving and reporting information to relevant units and organizations, and search and rescue coordination.

2.3 The East China Air Traffic Management Bureau has established a search and rescue coordination plan, including: daily management of search and rescue, coordination procedures, information notification procedures, etc., and stipulates that when the situation of civil aircraft appears in an unknown phase, an alarm phase, or a distress phase, the management department, the on-duty controller, The specific measures to be taken by flight service units stipulate how to evaluate early warning information and carry out early warning actions. Through the improvement of the above regulations, the search and rescue coordination capabilities of the air traffic control department have been improved, and the speed of air traffic control information notification has been accelerated.

2.4 The East China Air Traffic Management Bureau designed an emergency communication system model, including 14 modules including satellite communication system, VHF system, surveillance data processing, and flight plan processing. The system is divided into normal mode, drill mode and emergency mode, which can be manually switched in the director system when necessary. Currently, related projects are being demonstrated.

2.5 The East China Air Traffic Management Bureau has improved relevant regulations on emergency drills and training, stipulating 20 independent tasks in the three stages of drill preparation, drill implementation, and drill summary. At the same time, the relevant training is strictly carried out to ensure that all measures can be effectively implemented in the event of an actual emergency.

3. ACTION BY THE MEETING

- 3.1 The meeting is invited to:
- a) note the information contained in this paper; and
 - b) discuss any relevant matters as appropriate.

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