A Study on the Reform of China’s General Aviation Laws and Regulations

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ABSTRACT
With the rapid development of China’s general aviation in recent years, the demand for general aviation aircraft is increasing, therefore, the standard for the security management of general aviation, technical standards and market access for general aviation companies, and flight crew is much higher than that of before. However, the current law and regulations of general aviation are based on the standard of public transport, taking the fact into account that the general aviation and public transport aviation are very different; the Chinese government has proposed a reform of general aviation management principles, contents and objectives, and aims to formulate legal system of general aviation by 2020.

Keywords: General Aviation; Regulatory System; Reform

1. Introduction
China’s general aviation will witness a rapid development period, and the demand for flights will continue to increase. In recent years, China’s general aviation developed fast, statistics show that China has a total number of 807 general aircrafts, including 801 general aviation aircrafts and helicopters, 6 hot air balloons and dirigibles; and has 397 general airports, including 329 temporary airports; 74 enterprises engaged in the general aviation business activities; flight hours reached to 114,100 hours; the number of general aviation flight personnel reaches at 2237 [1]. The average annual flight grows more than 10%, the size of the industry, applications continue to expand, the flight type increases, flight demand is becoming strong, with sustained and rapid economic development and constant improvement of the life level expected in the next 10 years, average annual growth of general aviation in China will reach more than 15% [2]. The analysis of China’s current air laws, regulations, departmental rules and policies, especially the analysis of “on deepening reform of China’s low-altitude airspace management advice” is issued by China’s State Council, Central Military Commission on August 19, 2010 make the reform and direction of low-altitude airspace management and planning, and there is the growing contradiction between the current management and general aviation needs, especially with general aviation regulations and standards, management system, market access, the mechanism for handling accidents and general aviation needs of the public.

2. The Current Situation of Laws of General Aviation in China
China’s aviation legal system is composed of three levels, including laws, the State Council administrative regulations and the State Council departmental regulations.

The first legal hierarchy is the “Aviation law of china” and it is at the highest level of legal relationship to adjust aviation, this law was issued in 1995, and it was regarded as “China Aviation Constitution”. The Chapter 145-150 pairs made regulation in the general aviation activities in China, including the conditions of general aviation operations, flight safety, general aviation users, the interests of the third party involved in general aviation.

Aviation legal system is the second-order administrative regulations. In 1986, China’s State Council issued the “Interim Administration on General Aviation” is the first Administrative regulations for general aviation management, this administrative regulation defines general aviation activities, including airspace management, service assurance, approval procedures, and so on, and makes rules for general aviation applications, approval procedures,
Civil Aviation Administration of China regulations are at the third-order of Aviation legal system. It’s called CCARS. There are more than 30 regulations about general aviation and civil aviation regulations, which is related to economic management, certification, security, operating standards and so on. 6 among which are the most important rules “General operating and flight rules”, “Regulations on general aviation business”, “approval process for general aviation”, “general aviation business license regulations”, “general aviation regulations on non-operating Registration”, “Foreign Investment in Civil Aviation Industry”, “General operating and flight rules”.

China has adjusted the implementation of general aviation rules with reference to civil air transport, most of the relevant provisions, which scattered in the “Air Act” and the civil aviation authorities regulations and policies and regulations, most are abstract, inapplicable and non-operational principles, there is less regulations on general aviation, the current procedures for approval is too long and cumbersome, the flexibility does not meet the general aviation’s multi-purpose features, it is urgent to develop standards for general aviation flight airworthiness, rules and models and develop a general aviation airport construction standards and flight crew training standards in the future general aviation reform because of the lack of general aviation implementation details.

3. The Guiding Principles for Reform of China’s General Aviation Regulations

Summarizing the airspace management laws and regulations of China, the Chinese scholars have done research on airspace management; the Chinese scholars have two ideas about airspace management law. One is strict control idea for airspace; the other is relatively open idea for airspace.

The idea of strict control for Airspace has its historical reason. In 1949, China’s prior consideration are national defense and security situation, so China establish airspace management ideas based on “military-managed, and civilian-limit, Reflected in the low-altitude airspace strategies based on “military-managed, and civilian-limit, Reflected in the low-altitude airspace ideas based on “military-managed, and civilian-limit, Reflected in the low-altitude airspace ideas based on “military-managed, and civilian-limit, Reflected in the low-altitude airspace ideas based on “military-managed, and civilian-limit, Reflected in the low-altitude airspace ideas based on “military-managed, and civilian-limit, Reflected in the low-altitude airspace ideas based on “military-managed, and civilian-limit, Reflected in the low-altitude airspace ideas based on “military-managed, and civilian-limit, Reflected in the low-altitude airspace ideas based on “military-managed, and civilian-limit, Reflected in the low-altitude airspace ideas based on “military-managed, and civilian-limit, Reflected in the low-altitude airspace ideas based on “military-managed, and civilian-limit, Reflected in the low-altitude airspace ideas based on “military-managed, and civilian-limit, Reflected in the low-altitude airspace ideas based on “military-managed, and civilian-limit, Reflected in the low-altitude airspace ideas based on “military-managed, and civilian-limit, Reflected in the low-altitude airspace ideas based on “military-managed, and civilian-limit, and the need for military aviation comes first and the need for civil aviation comes second.” And this is the particularly significant appearance of the concept of “absolute security” for airspace management.

Relatively open airspace concept holds the opinion that airspace use should not overemphasizes airspace security, but should attach importance to the enormous economic benefits and social benefits lies in China’s airspace resources and. In this view, we should not only emphasize sovereignty and security of the airspace, and also attach importance to the economy of the airspace. In short, the airspace is competitive and exclusive public goods [4]. The concept of relatively open for airspace advocates that strict restrictions on civil aviation activities can definitely ensure the air defense security, but it is not appropriate and not necessary to limit civil aviation to pursuit absolute national security and public safety. In addition, the concept of “absolute security” for airspace legislation has caused a uneconomic results such as serious waste of airspace resources, and low utilization of airspace, and it is bound to hinder China’s civil air transport industry, also constrained the development of general aviation and industries related to the aviation industry, such as aerospace materials, machinery manufacturing [5]. Therefore, a reasonable concept of airspace legislation should take both civil aviation and national security into account, makes full and effective use of airspace resources, and pursue a airspace legislation concept that balance the economic interests of the airspace and airspace security.

China’s general aviation legislation aims to build a complete system of general aviation regulations and standards by 2020. Analysis of China’s current legal system and reform of general aviation management policies can drew a conclusion that general aviation legislation will be promoted by the following principles in the future:

1) Maximum inventory of low-altitude airspace resources. China’s current low-altitude airspace management is taking “national defense interests first” [6], as the starting point, which is based on national defense since the founding of new China, the consideration of the actual situation in air defense after the decision, and it is forced by the early years of new China, and it is also a reflection of China’s national conditions and reality. However, peace and development become the theme of our time, and large-scale war will not happen in the short term, therefore, maximizing the use of airspace during the period is becoming a necessary requirement for economic development.

2) Form low-altitude management regulations and standards with Chinese characteristics, developed countries based on the spirit of “maximum the utility, minimum the restriction to manage low-altitude airspace,”
however, whether China can also implement this spirit, it requires careful study, comparison and analysis of the reality between China and developed countries. In addition, implementation details of laws and regulations play an important role. In a sense, the implementation of rules is more important than the statutory provisions, as it relates to whether the terms of the provisions of regulations can be properly implemented in practice [7]. “On deepening reform of China’s low-altitude airspace management advice” ensures the premise of safety, allowing it of the current regulations, implement innovation for mechanisms and institutional innovation, which is a bold experiment, is providing support for careful reform.

3) Followed the principle of low-altitude airspace management laws. According to the experience of developed countries, low-flying general aviation weather and other factors have a great impact, aircraft types is diverse and airspace use is more arbitrary, and flight operations project is multiple, uncertainties and other basic characteristics of flight time, and ground communications, navigation and surveillance systems cannot effectively cover the airspace, the controller cannot see these aircraft, and cannot provide control service [8], therefore, the aircraft pilot is responsible for their own safety, there is a big management difference between air transportation and general aviation and China’s general aviation regulations is reference to air transportation laws, policies and technical standards to manage, such a management approach is inconsistent with the laws of general aviation operations.

4) Safety comes first. Security includes air defense security, flight safety and ground security of important ground. A good low airspace management mechanism should take the difference between state of emergency and the normal state into account to design low airspace management program, rather than blindly restrict to achieve low-altitude airspace defense security [9]. The full development of low-altitude airspace resources and security are not contradictory while stressing safety first premise.

4. The Reform of General Aviation Regulatory System in China

4.1. Regulation of General Aviation

China’s current airspace authority is Air Traffic Control Commission (State Commission ATC), which is under the joint leadership of the State Council and Central Military Commission, which is responsible for the country’s air traffic control work, and is divided into two terms: the Civil Aviation department is responsible for control of air traffic on the route Control command and air route traffic control services, en route air traffic control is controlled by the military departments. It should set up air traffic control authorities without military intervention [10]. However, the management of general aviation should concentrate on what should be the primary consideration of management problems, rather than who will control, general aviation will not develop if the goal is limited to constriction, but if the service is the main objectives or management of the main goals, the military involved in the management may not hinder the development of general aviation, not to mention the use of airspace itself related to air defense security.

4.2. Market Operations of General Aviation

Private enterprises or individuals in China have been trying to invest in general aviation airport, but achieved China’s current “general aviation business license regulations”, “regulations on Registration of non-profit general aviation”, “civil aviation certification requirement of products and parts” and “technical standards for civil aviation materials, components and airborne equipment” regulated profitability of the general aviation business, use of non-profit general aviation, civil aviation products and technical standards board, but which is not specifically involved in a lot of general aviation. Since the basic provisions of the airworthiness of aviation products are modeled by the U.S. Federal Aviation Regulations (FAR) is, and its related support and standard are more perfect compared to the standard of the associated support building at an early stage in China, there are some difficulties to support China’s aviation industry, aviation products to fully meet the above 5 department of airworthiness requirements [11]. Current purchase of business aircraft, business demand for flights has been gradually transformed into the real market, general aviation business flight services is expected to be faster developed.

Success is rare. There is no regulation about private investment to provide for construction of the airport, the existing administrative regulations, “the civil airport regulations,” only provides use of airspace and procedures for general aviation, there is no provision for low-altitude airspace control regulations, there is no defined category and grade of general aviation. Future policy is to encourage local governments and social forces to invest and construct aviation service stations and integrate them into management systems. The government will establish flexible investment incentives to encourage private investment to build the airport, and fulfill who invests and managed, will benefit.

4.3. The Handling of General Aviation Accidents

The government should establish mechanisms for low-altitude airspace violation penalties, develop and improve the general aviation response plans for handling emergency, clear responsibilities and work procedures of
relevant units, establish emergency response mechanism to ensure timely and effective disposal of various types of emergency incidents. What is more, the government should develop low-altitude airspace management evaluation criteria, research and comprehensive evaluation system based on standard management assessment and regard air traffic control management assessment as an important part of performance evaluation, but also periodically run the management assessment in order to identify and solve problems from the following aspect: improvement of layout of landing point, efficient use of airspace, flight safety indicators, air service station service quality, customer satisfaction, etc, low-altitude airspace in the region. In terms of oversight, the authorities should give full attention to the role of public opinion, pay attention to ideas of the community, especially the views of general aviation user recommendations to improve management methods.

4.4. The Training System of Flight Crew

The development of general aviation has more demand for general aviation pilots, but the number of China’s current pilots is very small. There are three ways to settle problems of the pilot shortage. First, encourage the public to establish training institutions, develop training channels; the second is to amend the existing regulations, to encourage universal aviation enterprises to operate the project, train, and recruit pilots; Third, coordinate relevant units of the armed forces, and adjust the demobilized army letter of recommendation from the pilot policies to encourage enterprises to introduce school-age professional pilots.

REFERENCES


