



ICAO

**The Fourth Meeting of the Aerodromes Operations and  
Planning Sub-Group (AOP/SG/4)**

*Video Teleconference, 10 to 13 November 2020*

**Agenda Item 4: Provision of AOP in the Asia/Pacific Region**

**– Planning & Design of Aerodromes**

**OPERATION SUMMARY OF BEIJING DAXING AIRPORT IN 2020**

(Presented by China)

**SUMMARY**

This paper summarizes the operation of Beijing Daxing International Airport on the first anniversary of its departure, including the operation summary, the on-time performance of flight, the operations under special weather conditions, the epidemic prevention and control, business recovery and forecast.

**1. INTRODUCTION**

1.1 On September 25, 2019, President Xi Jinping personally announced that Beijing Daxing International Airport (hereinafter referred to as 'Daxing Airport') was officially put into operation. During the first year of operation, Daxing Airport committed to achieving 'high-level operation of Daxing Airport', adhering to the initial intention of 'customer first', the determination to create the 'benchmark of aviation industry' and the 'integrated development', so as to realize the vision of constructing the airport into the most popular aviation hub all over the world.

1.2 From the operation beginning in 2019 to September 24, 2020, Daxing Airport has guaranteed 84.1 thousand flights, 10.24 million inbound and outbound passengers, 3.18 million pieces of luggage, 40.9 thousand tons of cargo.

**2. ON-TIME RATES OF FLIGHT IN GENERAL**

2.1 Since the operation begun in 2019, the origin normal rate, the release normal rate and the take-off normal rate of Daxing Airport reached 93.1%, 94.16% and 91.08% respectively. The release normal rate ranks the first among the 22 coordinated airports in china. In total, Daxing Airport has achieved the origin normal rate and the release normal rate over 90% for 10 months, and over 95% for 5 months. In terms of the challenges of frost, snow, fog and other severe weather condition, the release normal rate from November 2019 to January 2020 remained above 95%. As for the challenge of thunderstorms, the release normal rate in June and July in 2020 maintained above 93%. In August, due to frequent thunderstorms, the normal rate of flight was decreased.

**3. OPERATION UNDER SPECIAL WEATHER CONDITIONS**

3.1 *SPECIAL Weather Conditions Summary:* From the beginning of the operation to September 24, 2020, there are 157 days under special weather conditions, accounting for 43.61%.

3.2 *Operations under Low Visibility:* Daxing Airport launched 3 testing flights in total, except for verifying the operating rules of runway, taxiway and airspace flight program, it also promoted the operation capability under low visibility. There were 8 airlines, 10 aircraft models and 13 airplanes performed the tests, effectively verifying Daxing Airport's operation capability under low visibility. Until September 24, 2020, the operation program under low visibility has been launched 22 times. The total operation time under low visibility lasted for 67.5 hours, and 660 flights were guaranteed. In addition, Daxing Airport achieved CATIIB landing with commercial flight for the first time in China Civil Aviation.

3.3 *Operations under Snow:* During the operation period in 2019/20W, the airport met snowing weather conditions of 9 times, which many were mixed with low-visibility conditions, resulting in significant drop of ground operation efficiency. Through close cooperation and collaborative response with air traffic control, airlines, ground agents, de-icing companies and etc., the smooth and orderly operation was guaranteed to the greatest extent under complex weather. Under snow and ice weather, Daxing Airport achieved defrosting time of 7 minutes, de-icing time for light snow of 14 minutes and 40 seconds, 19 minutes and 6 seconds for moderate snow, and 36 minutes and 54 seconds for heavy snow. The origin normal rate increased from 22.81% of the first operation under snow weather to 63.33% for the third operation under snow.

3.4 *Operations under the First Flood Season:* On April 28, 2020, Daxing Airport held initiating conference of flood protection, establishing the flood prevention leading group, normalized flood control command system and the communication mechanism between the governments of Beijing and Hebei. Simultaneously, Daxing Airport formulated and issued flood control manuals to organize and collect 26 risks of flood control. During the flood season in 2020, Daxing Airport experienced 22 times of rain, of which the maximum precipitation was 85.33mm (August 23). In response to the flood season rainfall, about 2,000 people were involved to protect and guarantee the operation. The reservoirs regulated a total amount of 0.91 million cubic meters of rainwater, and the entire displacement was 2.17 million cubic meters.

#### **4. EPIDEMIC PREVENTION AND CONTROL**

4.1 *Quick mobilization and deployment:* Implementing the requests from the Government on COVID-19 epidemic prevention, Daxing Airport set up the epidemic prevention leading group and 7 project teams at first time, setting and dynamically adjusting various epidemic prevention and control guidance of Daxing Airport for more than 50 times. According to the prevention strategy adjustments and policy changes, we have constantly improved the epidemic protection procedures for more than 20 times.

4.2 *Promotion of Technological Epidemic Prevention:* Daxing Airport Health Management Platform was rapidly built, personnel information authentication and information submission were realized through WeChat mini-program, which was automatically analyzed to generate health QR code, providing strong data support for epidemic prevention and control in Daxing Airport. Simultaneously, Personnel Track Retrieval Test was completed. Using video analysis technology, epidemic prevention personnel track analysis was achieved through the information from camera image.

4.3 *Emergency Transportation:* At the same time, Daxing Airport opened epidemic prevention appliance transport green channel. Since the beginning of epidemic prevention on January 27, 2020, a total of 1,633 pieces and 29.99 tons of epidemic prevention appliances have been transported. Daxing Airport also supported the chartered flight of Emergency Medical Aid Team.

4.4 *Staff Epidemic Prevention:* Daxing Airport attaches great importance to staff epidemic prevention and control. The airport strengthened the protection of employees in key positions, and provided them with masks, goggles and gloves. A total of 20 temperature measuring points were set up in office buildings, restaurants and gateways to the airfield, in order to strengthen disinfection in office

areas and to create a safe and healthy working environment for employees. In addition, nucleic acid detection was performed to all employees of Daxing Airport and all results turned as negative.

4.5 *Passengers Epidemic Prevention and Control:* Daxing Airport has always put passengers' safety to the first place. We emergently procured 27 sets of temperature measuring equipment and set up 32 channels with 24 passenger temperature measuring points, realizing full coverage of inbound and outbound passenger temperature measurement at the airport. The airport will measure the temperature and verify the health QR code of the passengers entering the terminal. Passengers with abnormal temperatures will be sent to nearby hospitals for further screening. Strengthening ventilation, disinfection and sterilization in the building, Daxing Airport creates a safe travel environment for passengers. At the same time, transport capacity guarantee scheme for large crowds of inbound and outbound passengers was formulated to ensure that passengers can quickly gather and disperse without congestion and retention. Since the launch of passenger temperature measurement on January 23 2020, a total of 5,982,108 passengers have been tested, achieving 'three zeros' target of zero error of epidemic prevention for passengers, zero infection of epidemic prevention for employees, and zero complaint of emergency transportation.

## 5. BUSINESS RECOVERY AND FORECAST

5.1 *Business Recovery:* Since September 2020, Daxing Airport has coordinated epidemic prevention and production resumption, actively promoting the recovery of the aviation market, and launched live stream marketing through the theme activity of 'Daxing Airport Anniversary Celebration' to further stimulate the vitality of the market. On September 22, the passenger throughput of Daxing Airport exceeded 10 million since the beginning of operation. During the National Day of 8-day length of holiday, Daxing Airport continued to make efforts to achieve a total passenger throughput of 0.74 million, and guaranteed operations of 5,313 flights. The average daily passenger throughput broke through 90 thousand, and the daily passenger throughput advanced to 97.1 thousand on October 7 especially. After four massive transitions, 26 foreign and domestic airlines have been put into operation successively in Daxing Airport. Affected by the outbreak, all international flights have been shifted to Beijing Capital Airport. From Oct 25, the 2020/21W flight plan will be implemented. After the shift of season, all flights of China Southern airlines in Beijing will be transferred to Daxing Airport for operation. In the season of 2020/21W, Daxing Airport plans to open 153 routes covering 141 destinations all over the world, further improving the accessibility of the route network.

5.1.1 From Oct 25, the overall time slots of W20 are 890/day, which are 98 above the average slots of the previous season. Among them, there are 827 slots/day for domestic airlines (all for domestic flights) and 63 slots/day for foreign airlines. At the moment, all flights are domestic at the airport, and the recovery of international flights will be based on the circumstances of epidemic prevention. Besides, the average daily passenger throughput reaches above 100 thousand and operations of more than 780 flights are guaranteed daily.

5.2 *Business Volume Forecast:* In 2020, the annual flight movements of Daxing Airport is expected to reach 135,800, and the annual passenger throughput is expected to be 16.2 million. It is expected that the flight movements will surpass 290,000 and the passenger throughput will reach 38 million in 2021.

## 6. ACTION BY THE MEETING

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