

# AIR TRANSPORT OF SMALL CONSIGNMENTS

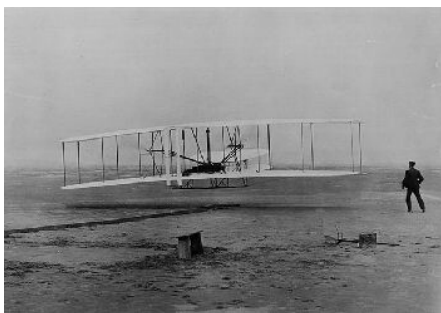
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The article deals with air transport of small consignments. The introduction describes the history of aviation agreements with important rules for the operation of aircraft, passenger transport, goods and security of the dynamically evolving field. It attempts to characterize the existing and principles in this area. It focuses mainly on air transport of mail.

**K e y w o r d s:** Air transport, air transport of goods, carriage of postal items

## 1. THE HISTORY OF THE AIR TRANSPORT

First note about human's effort to fly is based on Persian and Chinese myth and is more than 4 000 years old. Basis of aviation in Europe dates to 7th century b.c. as a legend about Ikarus. Leonardo da Vinci has been thinking about flying constantly, but the human race hasn't been able to imitate bird flight. In 1783 the first balloon with the people on the board raised near Paris. This flight lasted 25 minutes. The brothers Wright demonstrated first flight with airplane equipped with engine and during the 1905 they set American record of the length of the flight. Their airplane Flyer 3 (pic. 1) flew 83 kilometers per 1 hour and 13 minutes. Czechoslovakia is famous by Jan Kaspar with his cousin Evzen Cihak. Both of them flew from Pardubice to Prague 12th of May 1911 and in the same year they flew from Melnik to Prague with passenger.



**Pic. 1 Wright Flyer**

During the Second World War raised the aviation in Czechoslovakia rapidly. The airplane become faster and able to overcome long

distances, that means the possibility to fly from one state to another. These opportunities set up the question about international civil aviation. In January 1919 has been convened the Paris Peace Conference which appoint commission, which had the task to establish the international agreement of civil aviation and create the documents solving the following questions:[3]

- sovereignty over the air space
- airplane registration
- the pilots licenses
- operation of military aircraft

This resulted in the document signed by 38 states included Czechoslovakia in 13th of October 1919 known as Treaty of Paris. In 1928 has been developed and update into the Treaty of Havana. The very first Czechoslovakian act is also based on the Treaty of Paris. It was the act number 172/1925 Zb.. In 1930 it has been update to act number 48/1930 Zb..

The act included:

- modification of responsibility of aircraft operation
- the introduction of compulsory insurance against the consequences of that responsibility
- empower the government to issue regulations for its own aviation and air traffic

Public aviation in Czechoslovakia started in 1920, with the airport such as Bratislava airport and Prague -Kbely. In 1923 state enterprise Ceskoslovenske aerolinie has been established. First flight has conducted by the airplane Aero A-14 Bradenburg, the pilot was Kamil Brabenec (pic. 2), from Prague to Bratislava. The first

international flight was in 1930 from Prague, through Bratislava to Zagreb.



**Pic. 2 Aero A-14 Brandenburg**

In 1929 was Warsaw pact signed. Warsaw pact is versatile pact about unification of some rules about international aviation. It unite adjustment responsibility for damage from owner of airplane to passengers, their luggage and a sender and a recipient of goods. This pact has been changed few times.[3]

American president Roosevelt organized international conference with 55 states, at the end of II.WW. The Pact about international civil aviation also known as Treat of Chicago has been signed during the Roosevelt's conference. The pact came in force in 1947 and canceled previous pact such as Havana and Paris treaty. The Chicago pact is focus only to civil airplane. As the state plain are consider military plain and plain of police and costumes forces. It is necessary for state airplane to have special permission to fly over the territory of civil state.[2]

Whole system of Warsaw pact was consolidated into pact known as Montreal pact in 1999, Montreal pact was signed in 1971, updated in 1988 and 1999. It is a facts of offenses endangering aircraft safety with intent to get or control aircraft.

These are the offenses:

- violence against the aircraft during flight, which threatening the safety
- destruction or damage of aircraft during flight
- place the object which can damage aircraft or part of the aircraft
- damage the equipment of aircraft leading to endangering

- announce the false information, leading to endangering.[3]

Slovak republic has signed Montreal pact in 4th of November 2003.

## 2. HISTORY AIR POST

Effort to the fastest information connection and love to flying brings idea to American John Wisa. He tried to use balloon as a transport for the mails. This idea becomes real although the first try haven't been succeed. But next flight made 17th of August from Lafayette in India in USA. The goal was east coast USA but they didn't reach it. One of the letter has been delivered after 98 years. Nonetheless John Wisa is a founder of airmail.

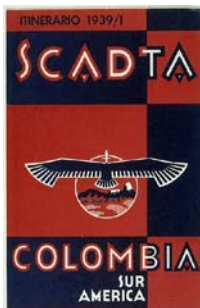
Postal officer Thomas Wood publish in 16th of August in 1859 an advertisement in Lafayette Daily Courier text, says:"Everyone, who wants to send a letter to friend at the east coast today, he has to deliver the mail to the post office until 12 o'clock. Letter has to be addressed with words "via balloon Jupiter". He attention citizen to John's Wisa try to deliver mail with balloon to the east coast. Advertisement was successful and even at midday 30 thousand people comes to see historical moment. The flight was canceled and delayed to another day. He took 123 letters and 23 leaflets on board. He wanted to fly Philadelphia or New York. The bad weather made Wisa to gave up and land after 30 kilometers. The mail was delivered by the train. But at least part of the way the flight.

Wisa's idea took. Massive using of balloon delivering was domain manly for French during the French -Prussian war in 1870 - 71 when the Paris in 4 months launched 67 balloons. Most of them were load with mail. More than 2.5 million delivers has been transport. Only 7 balloons haven't reach the goal. This is how post have been delivering until the I.WW. Disadvantage of balloon delivering was weather. If the wind haven't been blowing in right direction, the balloons were useless.

Solution was discovery of airplane. Airplane has been used for massive delivering after the I. WW. Pioneers were French again. One of most famous pilot was Antoine de Saint Exupery who helped with discovering airline through Atlantic to America. First airline directed from Africa to South America and after development of airplane, people were able to fly to the North America.[4]

India becomes pioneers country, when in 18th of February 1911, French pilot Henri Pequet deliver 6500 letter and 40 postcards says First Aerial Post U.P from Allahabad to Naini in 13 minutes.[1]

It was only the matter of time, when the regular air delivering or company dealing with airplane delivering will be established. In Great Britain has been established regular airline from London to Windsor only half of the year after. They were using to delivering mail. First official company dealing with air delivering of package was established in Columbia. The name of the company was Scadta (pic. 3) directed to mail delivering. For the air delivering were made also the stamps in 1917 in Italy. Also the special stamps inform about delivering by airplane.[5]



**Pic. 3 Logo first air company**

### **3. TRANSPORT OF AIR MAIL**

Transport of air mail means that package is transporting by the airplane. This is the fastest way of delivering package to longer distances. We can say that importance of air post getting lower from the sight of total volume of transportation. Airplane are getting better and

more safe so the company are choosing transport of human. The company during 20th and 30th years of last century was specialized mainly to package delivering as a lucrative job, making enough money to cover costs. This new method of delivering, very fast for that time, was very equested. These days you couldn't find transporter focused only to post delivering, mainly because of FAX, E-mail or internet. However, is important to say that proportion of post delivering is significant. Proportion of post delivering in sight of whole air service is 1%. Advantage of post delivering is fact that advertisement is unnecessary.

Transport of air mail is regulated by agreement air companies and post offices. it is controlled by the rules set by air companies and world post organization, Universal Post Union (UPU) and in details between air companies and post offices of the country. It undertakes companies to ensure capacity to the specified destination appropriate dates and time interval, in the other hand, let the post offices option to choose the best one by the connection, price, capacity and reliability.

Procedures concerning to taking over, transport and delivering are regulated together with warranty of transporter and the prices of specific types of package (letters, parcels, express delivering, etc.). Delivering each package is specified in Postal Bordeau document.[3]

### **4. THE PLAN OF POSTAL TRANSPORTATION AND TIMELINE FOR PACKAGE DELIVERING**

Postal transportation is regulated by the plan, made by logistic section usually made for specific part of year. The plan set the best way of transport for the individual postal curses. Plan is compiled to cover package transportation and to cover express services and other services. For an international package transporting through Slovakia are set up the rules identical with the rules of international package.

## 5. CONCLUSION

Development of air transported during last year is significant. It is caused by technological progress. Progress is focused on ecology, capacity, comfort and range. Rising fuel prices is pushing the engineers to reduce fuel consumption. This sector is very sensitive. Transporter can get to very difficult financial situation, which they are not being able to change. It is namely situation such as terrorism, epidemic or international political situation. Air transport becomes global and mass transport division. Air transport is available for all kind of economically developed country and is also used for private purposes. People like to indulge comfort, fast transport and reliability. Air transport is the safest way of transport people or package. Economic market is crowded by air transport companies, what is good mainly for customers because the prices are pushing down by compete. This is also the reason of bankruptcy smaller companies. We can talk about air transport as the most comprehensive sector.

The air transport is available such as main activity of transporter or parcel services also as minor activity. Package is transfer in containers or pallet.

The price is adjusted by long range of factors like weight, volume, article, number, etc. The payment system CASS is determined protect involved parties; it is based on simple and fast settlement money from selling.

Companies established in 20th and 30th are specialized to transport package mainly, but the development of new technology made airplane safer so the companies transferred their attention to transport people.

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