

## **APPLICATION OF THE BOW-TIE MODEL IN AIR TRANSPORTATION SAFETY RISK ANALYSIS**

**OKAN ANIL BULBA**

College of Civil Aviation, Nanjing University of Aeronautics and Astronautics, Nanjing, China

### **ABSTRACT**

To improve aviation safety, effectiveness, one should systematically analyze and assess the risks of aviation errors and determine the possible causes. There are many existing risk management methods for aviation, but nowadays the bow tie method is becoming more popular, also it is becoming one of the commonly used risk management method of airline companies. This article reviews the available literature and identifies the different approaches for risk management assignment that are exist. This applies the bow-tie methodology and is intended to be of interest to those who are new to the technique and experienced users alike. It summarizes the history of the bow-tie method, gives an overview of how to apply it and describes in detail its practical uses and benefits as well as build Bow-Tie method for Pegasus Airline company.

**KEYWORDS:** Bow-Tie, Risk Management & Aviation Risk Analyz