FALCON
SAFE

System **Falcon Safe**

Falcon Safe is a wildlife hazard record and analysis system and an assessment tool for Airports. It has been designed by JTC Software in cooperation with the Poznań Ławica International Airport in Poland where the system has been successfully implemented and has become fully operational. The system is a complete solution that can be used at every airport. It complies with EU standards and ICAO regulations in the matter of risk analysis and hazard assessment.

jtc® software

Falcon Safe System allows you to:

◆ record wildlife and birds at the airport and its surroundings
◆ manage and plan deterrence methods,
◆ record and report bird strike,
◆ record, manage and plan runway inspections,
◆ record and report FOD including its automatic GPS powered localization on the runway
◆ record other risks and hazards, including details of the field works
◆ filter the data and generate various reports, including SNOWTAM and bird strike reports
◆ provide statistical analysis of incidents,
◆ provide wildlife risk assessment and calculate the hazard level for the airport in connection with flights schedules, weather conditions, types of aircrafts, flight schedules and movements,
◆ generate bird strike reports to the local Aviation Authority in their approved format
◆ assist in decision making processes in safety management
◆ integrated with AFTN, NOTAM, and Safety Management System (SMS)

Falcon System incorporates operational flight data, aircraft types, weather conditions, and SNOWTAM messages. It also accommodates deterrence methods and allows for integration with SMS (Safety Management System). It creates a wide database which is constantly amended, from which the User is able to generate all sorts of reports and statistical information, as well as automatically report bird strike and other incidents the local Aviation Authority in the required format.

The data collected is implemented into the risk assessment matrix (according to the DOC. 9137 ICAO) to allow the analysis of the hazard level and degree for the airport and assist safety management.

Systematic data collection will in future allow for proper anticipation of possible hazards in connection with species occurrence, weather data, air traffic data and flight schedules.

Falcon Safe complies with recommendations of EASA and is consistent with EU regulations, international standards of AFTN, NOTAM, Safety Management System (SMS) as recommended by ICAO, and the requirements of national and international aviation safety regulations.

Falcon Safe is ready to meet the requirements of the DOC. 9137 in reference to monitoring and risk analysis within the 13 km area surrounding the airport (this module is in preparation).

The system consists of two applications:

1. A PC web based application on the master station (one or multiple) where all data is available for viewing and editing, the application can be installed and accessed on any of the User's Pcs.

2. A mobile application which can be installed on any mobile Android powered device, i.e. a tablet or a smartphone for local data entry to be used by marshalls, security officers, patrols, birdmen, etc.

Falcon System requires remote internet access. The devices (tablets, smartphones and main master station) communicate over Internet or WI-FI. All elements of the system must have access to the Internet ensured.

The system allows the User to adjust the database to his individual needs, choose the ways and scope of reporting, edit the species, the groups of species, tables, users, filters, etc.

The User has the option to further customize the Falcon Safe System in terms of its configuration and functionalities. Customization is discussed prior to implementation, at the order stage.