Luis Mijares
Civil Aviation Expert

Overview

Professionally involved in aviation safety working directly in the environment of SSP/SMS, specially in Aviation Safety Occurrence Reporting and Analysis.

Involved in the design, implementation and development of the National ORS for the Spanish Authority since its birth. Working during years on every aspect of data collection, storing, coding, analysis and dissemination processes, he has participated in the development of associated procedures, guidelines, tools and methodologies.

Mainly skilled in safety assessment tools and methodologies, recognized as good practices around the Safety Reporting and Analysis Environment, also involved in the delivery of training within the aviation industry at international level, for countries and organizations in the process of implementing their own SSP and SMS.

Covering every aspect and task in the safety data collection and analysis, he also developed some research initiatives to design risk assessment methodologies for the detection of Key Risk Areas, already used for safety oversight based on ECCAIRS database.

International activities have also been a relevant part of his duties, being involved in many working groups, mostly in Europe (EU, EASA, Eurocontrol, etc.).

He is currently the Air Navigation and Safety Analysis Manager at SENASA, taking under his responsibility contracts supporting the Aviation Safety Oversight and SSP for the Spanish Authority and international aviation consultancy and training projects.

Professional experience

May 2020-the present

Management of contracts Supporting the Aviation Safety Oversight and SSP for the Spanish State:
- ANSPs-ATM/CNS/AIS certification and oversight
- Safety Occurrence Reporting System
- ATS Incidents Analysis
- ANSPs-MET Providers oversight
- Passenger Rights
- Airlines Safety Oversight
- Accidents Investigations

Management of contracts supporting the Spanish Administrator of Railway Infrastructures (Adif).
Management of Language Proficiency Test Centre (English and Spanish)
International Aviation Consultancy Projects
International Aviation Training Projects

January 2007-May 2020

SENASA. Head of Safety Occurrence Reporting Unit. State Safety Program:

- Support on the implementation and execution of the State Safety Program (SSP) for the Spanish Aviation Safety Agency (AESA)
- Responsible of the technical working team that supports AESA in the operation of the Spanish Safety Occurrence Reporting System (SNS) and the Air Traffic Incident Analysis Commission (CEANITA). Actually managing a 40 people team.
- Management of staff, technical incident investigation, and design of related procedures.
- Safety Occurrence Reporting System Design, Implementation and Operation (EU Directive 2003/42 and EU Regulation 376/2014).
- Collection, storing, protection, exploitation, dissemination and development of safety analysis on civil aviation safety related occurrences.
- Support in the implementation of Safety Management Systems (SMS) and State Safety Programs (SSP) and related safety tools and processes (ECCAIRS, Bow Tie, SORA, RAT, etc) within Organizations (Air Carriers, Air Navigation Service Providers, Airports) and/or Authorities. Mainly in Spain, Perú, Argentina, Dominican Republic, México, Costa Rica, Central America Regional Authority COCESNA-ACSA, Arab Emirate of Sharjah, Fyrom, Azerbaijan, Nepal, etc.
- Promotion of Just and Reporting Culture Within the Industry.
- ECCAIRS Operation & ADREP TAXONOMY Development and Translation into Spanish Language.
- Statistical Safety Data Exploitation (Safety Indicators, Trend Monitoring, Dashboards, Etc)
- Development of Risk Assessment Methodologies
- Aviation Safety Studies (Flight Operations, Air Navigation, Airports, etc).
- Collaboration and Coordination with Other Aeronautical Organizations (Air Carriers, Air Navigation Service Providers, EUROCONTROL, CAA, EASA, Industry, etc) and Accident Investigation Bodies.
- International Safety Training development and provision (see delivered training list)
- EUROCONTROL RESET Project. Benchmarking for Safety Assessment Methodologies in Air Navigation.
- EASP (Euromed Aviation Safety Project) Promoting the harmonization of safety standards between the EU and Mediterranean partner States.
- Active and continuous participation in international Working Groups:
  - EUROCONTROL AST, Annual Summary Template
  - CICTT, CAST-ICAO Common Taxonomy Team
  - ICAO SISG, Safety Indicators Study Group
  - ICASS, International Confidential Aviation Safety Systems
  - ECCAIRS Steering Committee
  - ECCAIRS Taxonomy WG
  - EASA NoA, European Network of Analyst
  - EASA NoA SPI, Safety Performance Indicators WG
  - EASA Common Risk Classification Scheme Development
  - EU Commission, MS Expert for discussion on new Reporting Regulation Reg376/2014
  - EU Commission, MS Expert for discussion on new Reporting Regulation Reg2015/1018

March 2005-January 2007

Project Engineer (Air Navigation Systems Area. Safety Department). Main projects:

- Aviation Safety and Engineering
- "Development of Safety and Risk Model in Airport Operations". I+D+i Project. Development of risk models for runway overrun and landing undershoot, using a probabilistic approach. Supported by historical data on accident investigations to determine if the risk level is acceptable or whether action must be taken to mitigate such risks at a given

airport. Furthermore, these models permit comparison of the results of different risk mitigation actions in terms of operational risk and safety.

- "Air Navigation Operational Safety Compatibility Assessment for New Madrid Airport System (NSAM)". Technical Assessment on safety compatibility between Madrid Barajas and Campo Real Airports Operation. Analysis of existing scenarios and Air Navigation procedures and further design of proposed alternatives and solutions to improve safety within their simultaneous operation.
- "G-BAS (Ground-Based Augmentation System).CAT-I Safety Assessment". Specification and assessment of a number of ATM/CNS scenarios where GNSS services are supplied. A formal hazard analysis is applied to those scenarios to provide evidences about the safety of the proposed GNSS applications.

Education & qualifications

- 1995-2005: Aeronautical Engineer (Polytechnical University of Madrid)
- ICAO   TRAINAIR PLUS Course Developer TDC-13-23/2013 TPP-IQCD-0133
- ICAO   TRAINAIR PLUS Qualified Instructor. TIC2-02-08-2014 / INS-CTP-001E-2016-007
- ICAO   ICAO Senior Course Developer VCT-271818958-2019

Trainer Background

- Speaker in VII Transport Engineering Congress (CIT2006). Ciudad Real. June 2006: "Estudio de Seguridad y Riesgo Aplicado a Operaciones en el Entorno Aeroportuario".
- Speaker in IV Air Navigation Safety Seminary, Safety Management System (SMS). Madrid. November 2007: "Sistema de Notificación de Sucesos. Explotación de Datos y Estimación de Riesgos Asociados a Operaciones en Entorno Aeroportuario"
- Speaker in ICASS meetings (International Confidential Aviation Safety Systems).
- Instructor in "European Safety Regulations" Course (Occurrence Reporting Module).
- Instructor in "ECCAIRS End-User Training Course". 2011-2018
- Instructor in "European Safety Regulations Course" (Occurrence Reporting Module) for EUROMED. Edition 1 & 2.
- Instructor in "Safety Occurrence Reporting and ECCAIRS operation" for Air Eurosafe (Skopje, Fyrom). Edition 1.
- Instructor in "Incident and Accident Analysis Course" for AENA. Edition 1 to 6
- Instructor in "Incident and Accident Analysis Course" for INECO. Edition 1 & 2.
- Instructor in "Master in Airport Systems. Airport Safety Module" supported by Polytechnical University of Madrid. 2009 to 2019.
- Speaker in IV, V and VI SEPLA Safety Management Seminars
- Instructor in "SENASA". "Occurrence Reporting Course" for AESA.
- Speaker in ECAC-ACC Workshop: "Workshop on the Treatment of Incidents". Roskilde, Denmark. May 2012.
- Instructor in "SENASA". "Occurrence Reporting and Incident Investigation Course" 1st and 2nd edition 2013.
- Instructor in "SENASA". "Safety Events Analysis". Multiple Editions 2014-2018. Madrid, Buenos Aires, Baku, Kathmandu, México, Lima, etc.
- Speaker in United Arab Emirates GCAA Workshop: "Safety Intelligence & Management". Dubai. Nov 2014

- Developer of "SORA - Safety Occurrence Reporting and Analysis" Course for ICAO Trainair Program. 209/043/SMS SORA.
- Instructor in "SORA - Safety Occurrence Reporting and Analysis" Course for ICAO Trainair Program. 209/043/SMS SORA. Multiple Editions 2015-2019.
- Speaker in IDAC-ASCA Seminar: "Safety Management 2016". Santo Domingo Dominican Republic 2016.
- Instructor in "SMxP - Safety Management for Practitioners" Course for ICAO Trainair Program. 2016-2017.
- Instructor in "Safety Risk Assessment Methodologies" Multiple Editions. 2016-2019
- Instructor in "Bow Tie for Aviation Course" Multiple Editions. 2015-2019

Note: Multiple editions of these courses were delivered internationally, among others, in: Spain, Perú, Argentina, Dominican Republic, México, Costa Rica, Central America Regional Authority COCESNA-ACSA, Arab Emirate of Sharja, Fyrom, Azerbaijan, Nepal, etc

- Lecturer on Safety Management at the Aeronautical Management Degree of Polytechnical University of Madrid 2014-17.

- Associate Professor at Polytechnical University, teaching Aviation Safety and Management of Aviation Organizations (Air Transport and Operations Management Degree). Since 2018.

Publications

- "José Ramón López Villares" Award, XI edition 2005. Granted by Aena to the Project: "Development of Safety and Risk Model in Airport Operations".

- Article for Safety Science Magazine: "The development of probabilistic models to estimate accident risk (due to runway overrun and landing undershoot) applicable to the design and construction of runway safety areas".