

FIR-AZ Operational Safety Monitoring



Departamento de Controle do Espaço Aéreo









GOALS

Know the importance of Operational Safety Monitoring







SCRIPT

Preface Methodology Basic Processing Regulatory Monitoring Monitoring Performed







PREFACE

In providing air navigation services, effective operational safety management is based on three basic concepts:

a) The first of these is the global focus on operational safety. It is based on the organizational safety culture;

(b) The second concept is based on the appropriate use of effective organizational tools to maintain operational safety levels. and

(c) The third concept advocates a formal system for supervising operational safety performance. This is necessary to confirm ongoing monitoring of its policies, objectives, goals, and compliance with its operational safety standards.







Operational Safety Monitoring

Formal safety performance supervision system required for assessments to identify hazards and manage operational safety risks in the provision of air navigation services.







OPERATIONAL SAFETY MONITORING

OPERATIONAL SAFETY MANAGEMENT starts by:
monitoring of the performance of air navigation services (monitoring of the evolution of operational safety indicators)
The implementation of actions to secure a NASO.

It is the LAST CRITICAL ELEMENT TO MAINTAIN AN ACTIVE AND EFFICIENT SGSO.







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METHODOLOGY

a) **MEASUREMENT**: To measure the performance of a process or activity from reliably derived indicators;

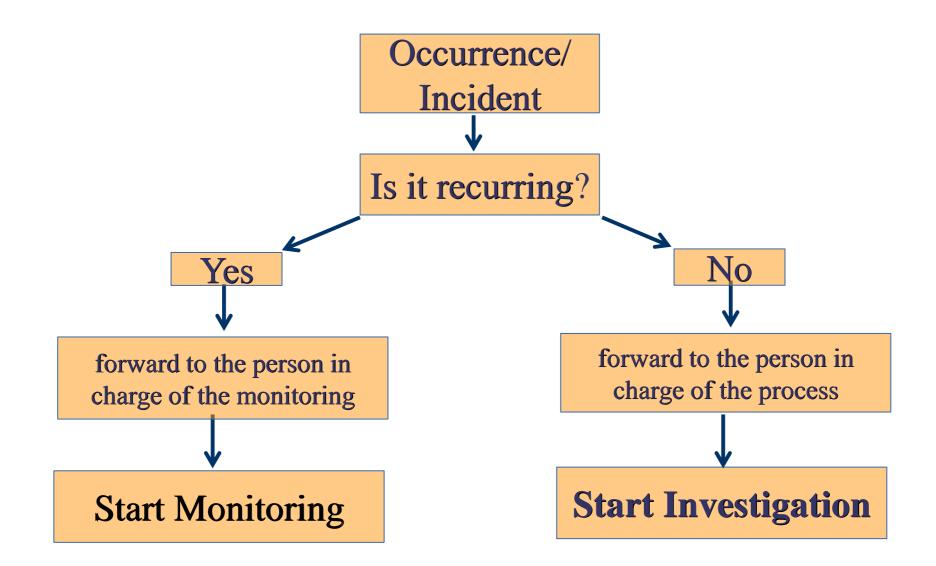
- **B) COMPARISON:** compare the data obtained in the measurement with a preestablished standard (DECEA Standards); and
- C) ACTION: establish appropriate and orderly measures consistent with available resources to optimize observed performance.







BASIC PROCESSING









REGULATORY MONITORING

- **IDSO** (Incidents, RI, RA, Coordination, Planning e Supervision);
- MDSO (Incidents, RI, RA, Coordination, Planning e Supervision);
- **PFO (operational factor research) e PFH(humans factor research)**; e
- RICEA Indicators.







Air Traffic Incidents SBMA (Marabá)

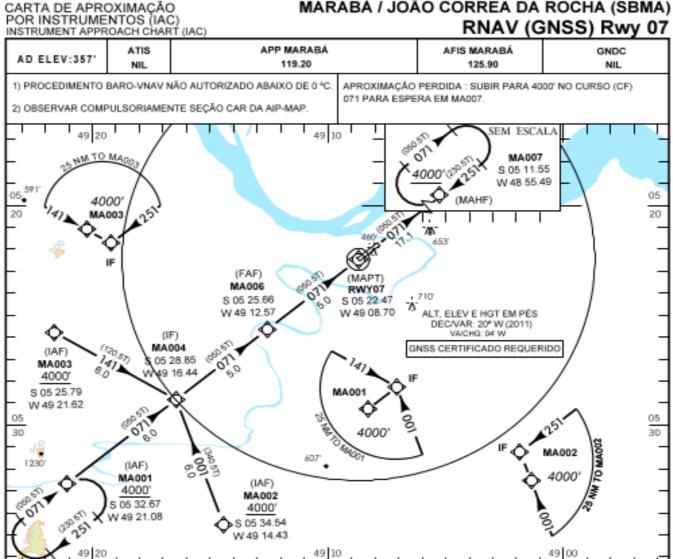
ORIGEM: High Critical Risk Indicators, number of relevant occurrences (32) involving aircraft in operation VFR with IFR, after RNAV implantation (RWY 07 and RWY 25) in 2011.

RISK MANAGEMENT WAS NOT MADE CONCERNING THE CHANGE!!!!!!









MARABÁ / JOÃO CORREA DA ROCHA (SBMA)







Incidentes de Tráfego Aéreo em SBMA (Marabá)

DEVELOPED ACTION 1 – Monitoring forwarded to Infraer propounding the Current Risk Management in the PSNA ATS from Marabá(AFIS MA) current operations, implantation of an Approach Control and a Tower, as well as the adoption of transition measures from AFIS to ATC.







Incidentes de Tráfego Aéreo em SBMA (Marabá)

DEVELOPED ACTION 2 - Monitoring forwarded to Operations Division and DECEA for consideration and decision-making regarding their area of expertise informing the actions proposed in the MSO.

DEVELOPED ACTION 3 – In July 2014 Infraero forwards to DO for analysis the operational design project for the implementation of the Conventional APP in Marabá.







Air Traffic Incidents in SBMA (Marabá)

DEVELOPED ACTION 4 – From 30/09 to 03/10/2014 VSO eprformed in Marabá by a mixed team ASEGCEA/SIPACEA IV.

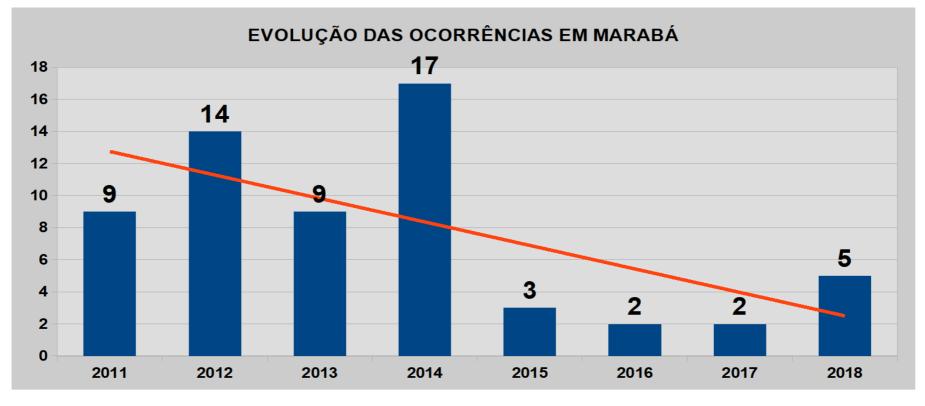
DEVELOPED ACTION 5 – Implantation of APP MA on March 2015







Air Traffic Occurrences in SBMA (Marabá) RESULT



STATUS IN 2019 – No occurrences recorded to date.







UNKNOWN TRAFFIC INSIDE SANTARÉM TMA/CTR

SOURCE: Significant increase in occurrences reported by Infraero in 2014.

Two aerodromes inside the TMA (Piquiatuba - SNCJ and São José – SNSH).

2013 – 02 reports (*) and in 2014 – 19 reports
* Critical Risk Incident







UNKNOWN TRAFFIC IN SANTAREM

EVOLUTION



STATUS – Active – 6 reports (may) to date.







UNKNOWN TRAFFIC IN SANTAREM

DEVELOPED ACTION 1 – Carried out risk management. High Risk Found (5A).

DEVELOPED ACTION 2 – Meeting involving SDOP/ANAC/CINDACTA IV/EPTA SN/ADM. Piquituba and São José Aerodromes – 12/04/2018.

DEVELOPED ACTION 3 – SNCJ and SNSH Aerodromes closure process started – Outubro 2019.







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