



ASECNA
DIRECTION GENERALE
DIRECTION DE L'EXPLOITATION TECHNIQUE

BUREAU PROCEDURES DE VOLS (BPV)

AFI – FPP workshop
Dakar, 26-28 march 2014

INSTRUMENT FLIGHT PROCEDURE CHARTING, PUBLICATION AND MAINTENANCE

Presented by ASECNA



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1- INTRODUCTION 1/2

- Le Bureau Procedures de Vols (BPV) is a department of Direction of Operations which is in charge of ASECNA's PANS OPS activities.
- It is the Flight Procedure design Office (FPO) for the 17 ASECNA member states.
- More than 50 years experience in designing IFR procedures.



1- INTRODUCTION 2/2

- Up to today, ASECNA's FPO has established operational procedures for over 20 States in the AFI region.
- ASECNA's FPO has published:
 - 147 standard non-precision procedures (NDB, VOR, DME) at 40 airports;
 - 51 standard precision procedures (ILS) at 26 airports;
 - and 40 RNAV/GNSS procedures at 24 airports.

2 – IFP CHARTING 1/3



- **Purpose** : to provide in a chart all information needed for a flight crew comply with a designated procedure (SID,STAR , ...)

Types: Information provided depend on the type of the charts.

As far as Instruments Procedure Designers are concerned, we consider 3 different types :

- Standard Instrument Departure (SID) Chart
- Standard Instrument Arrival (STAR) Chart
- Instrument Approach Chart (IAC) Chart
- **Regulation** : ICAO Annex 4

2- IFP CHARTERING 2/3



- **Information to be provided :**
 - Layout of points and waypoints used for STAR, IAF, IF, FAF/FAP etc.
 - Layout of designated trajectories and route segments associated with the procedure.
 - And for each trajectory:
 - True and magnetic route, length, procedure altitude (PA), minimum obstacle clearance (MOCA) etc.
 - All trajectory constraints
 - Information on obstacles, rivers, airspace boundaries' etc.

**THAT MEANS A LOT OF TIME AND A LOT OF WORK
IN DRAWINGS AND DEPECTING ALL THINGS.**



2- IFR CHARTING 3/3

ASECNA uses CAD Software for IACs and for SIDs and STARs charting:

“COREL DRAW” and “TRACE CARTE”.

- *EXAMPLES OF IFR PROCEDURE CHARTS*
- *DEMONSTRATION OF CHARTING ON “COREL DRAW” AND “TRACE CARTE”*



3 – IFP PUBLICATION 1/2

- **ASECNA :**
 - 03 NOF (Dakar – Brazzaville- Antananarivo)
 - 01 SIA in PARIS (ASECNA AIS)
- **The Publication process :**
 1. **FPO :**
 - prepares the draft publication (including IAC, SIDs and STARs charts and detailed description of procedures) and
 - forwards the draft publication to an NOF and to the SIA.



3 – IFP PUBLICATION 2/2

2. The NOF prepares and publishes an AIP Supplement , on an AIRAC date .
3. The new procedure enters in force after 56 days (two AIRAC cycles)
4. The SIA can insert new amendments in the ASECNA's AIP ATLAS.

Note: all ASECNA publications are available to users on ASECNA's website:

www.ais-asecna.org



4 – IFP MAINTENANCE 1/2

- **Consists of 02 activities held by the Flight Procedure Office of ASECNA's FPO:**
 - **continuous maintenance**
and
 - **periodic review.**
- **Purpose:** to guarantee quality of an IFP.



4 – IFP MAINTENANCE 2/2

- **Continuous maintenance:**

to take into account changes to the aerodrome obstacles, aerodrome data or changes to design criteria .

- **Periodic review:**

Every five year , each published procedure is reviewed to ensure that all changes to obstacles, aerodrome data or design criteria are assessed and if necessary actions are taken to re design or up date the procedure .



END OF THE PRESENTATION

**THANK YOU
FOR YOUR ATTENTION**