AFI Workshop on the improvement of NOTAM & the implementation of the new SNOWTAM format

Review of aeronautical information services
Pre-flight & post-flight information services

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Introduction

- For any aerodrome or heliport used for **international air operations**, aeronautical information relative to the **route** stages **originating** at the aerodrome/heliport shall be made **available** to **flight operations personnel**, including **flight crews** and services responsible for **pre-flight** information.

- Aeronautical information provided for **pre-flight planning** purposes shall include **information** of **operational significance** from the elements of **aeronautical information products**.

- A recapitulation of **valid NOTAM** of **operational significance** and other information of **urgent character** may be made **available** to **flight crews** in the form of **pre-flight information bulletins** (**PIB**). *(Annex 15, §5.5)*

Coverage zone of the aerodrome

- **Geographic coverage** for pre-flight information services should be determined and **periodically reviewed**.

- The coverage should be **limited** to the **FIR** within which the **aerodrome** is **located**, the FIR(s) **adjacent** thereto, and all air **route** or **portion of route** flown without an intermediate landing, **originating** at the aerodrome and **extending beyond** the FIR(s) mentioned **.** *(PANS-AIM, §5.5.1)*

- Based on the coverage zone, aerodrome AIS unit should establish the aeronautical information documents to be available for pre-flight planning purposes.

Coverage zone of the aerodrome

- The following list is a guide to the types of information that should be available for each coverage zone *(Doc 8126 Ed6, §8.5.1):*

  – a) air **routes**;

  – b) **regulations** on **entry** and **transit** of civil aircraft on **international flights**;

  – c) **aerodromes/heliports available** to **international aviation**;

  – d) air navigation **aids** and **mobile communication** facilities;

  – e) **meteorological** facilities;

Coverage zone of the aerodrome

- The following list is a guide to the types of information that should be available for each coverage zone *(Doc 8126 Ed6, §8.5.1):*

    – f) **rules** of the air and **ATS procedures**;

    – g) **controlled** and **restricted airspace**;

    – h) **hazards** to **air navigation**;

    – i) **search** and **rescue** facilities;

    – j) **survival** information;

Coverage zone of the aerodrome

- The following list is a guide to the types of information that should be available for each coverage zone *(Doc 8126 Ed6, §8.5.1):*

  – k) appropriate **maps** and **charts**;

  – l) a **recapitulation** of **current NOTAM**, and other information of an **urgent character** not contained in NOTAM, on aerodrome/heliport conditions.

Automated pre-flight information system

- **Automated** pre-flight information systems shall be used to **make** aeronautical **data** and aeronautical **information available** to **operations personnel** including **flight crew** members for **self-briefing**, **flight planning** and **flight information** service purposes.

- **Self-briefing facilities** of an automated pre-flight information system shall provide **access** to **operations personnel**, including **flight crew members** and other aeronautical personnel concerned. *(PANS-AIM, §5.5)*

Automated pre-flight information system

- **Automated** pre-flight information systems for the supply of aeronautical **data** and aeronautical **information** for **self-briefing**, flight planning and flight information service shall *(PANS-AIM, §5.5):*

  - a) provide for **continuous** and **timely updating** of the system **database**;

  - b) permit **access** to the system by **operations personnel**;

  - c) ensure **provision**, in **paper copy** form, of the aeronautical **data** and aeronautical **information**, as required;

  - d) use **access** and **interrogation procedures** based on **abbreviated plain language** and ICAO **location indicators**, as appropriate, or based on a **menu-driven** user interface;

  - e) provide for **rapid response** to a user request for information.

Pre-flight information bulletin

- The **pre-flight information bulletin** (PIB) is a **plain-language** presentation of **current NOTAM** information of **operational significance**, prepared prior to flight.

- The provision of **daily bulletins** is of **primary significance** in an automated **pre-flight briefing** service.

- PIBs containing **current information** on the **status** of **facilities** and **services** should be provided.

NOTAM selection criteria

- automated **pre-flight briefing** service can filter NOTAM based on its main fields : Q) FIR, A) Aerodrome, B) and C) Validity period.

- NOTAM **selection criteria** : qualifiers **TRAFFIC**, **PURPOSE** and **SCOPE**.

TRAFFIC	PURPOSE	SCOPE
I = IFR **V** = VFR **K** = NOTAM is a checklist	**N** = for immediate **attention** of **aircraft operators** **B** = NOTAM selected for **PIB** entry **O** = NOTAM concerning **flight operations** **M** = **Miscellaneous** NOTAM; not subject for a briefing, but available on request **K** = NOTAM is a **checklist**	**A** = Aerodrome **E** = En-route **W** = Nav Warning **K** = checklist

NOTAM selection criteria

- Qualifiers **Traffic**, **Purpose** and **Scope** are linked to the **NOTAM Code**, a comprehensive **description** of **information** contained in NOTAM.

- **NOTAM Code** groups contain a total of **five letters**, the first letter of which is always **Q**. The **second** and **third** letters identify the **subject**, and the **fourth** and **fifth** letters denote the **status** of the subject reported on.

- The most **commonly** used **NOTAM Code groups** and their respective **relation** to the qualifiers **Traffic**, **Purpose** and **Scope** are **presented** in the **NOTAM Selection Criteria tables** in *Doc 8126 Appendix B*.

NOTAM selection criteria

CATEGORY: AGA — LIGHTING FACILITIES (L)

SECOND AND THIRD LETTERS — SIGNIFICATION	CODE	Scope: A					
Approach lighting system (specify runway and type)	LA	Traffic		Purpose			
FOURTH AND FIFTH LETTERS — SIGNIFICATION	**CODE**	I	V	N	B	O	M
Hours of service are now . . . (specify)	AH	x	x	x	x	x	
Resumed normal operation	AK						
Operative (or re-operative subject to previously published limitations/conditions)	AL						
Operational	AO						
Available on request	AR	x	x	x	x	x	
Unserviceable	AS	x	x	x	x	x	
Completely withdrawn	AW	x	x	x	x	x	
Completed	CC						
Cancelled	CN						
Downgraded to . . . (specify)	CG	x	x	x	x	x	
Installed	CS	x	x	x	x	x	
On test, do not use	CT	x	x	x	x	x	
Trigger	TT	x	x		x	x	
Plain language	XX						

Example:
Q)ZZZZ/QLAAR/IV/NBO/...
E) APPROACH LIGHTING
SYSTEM AVBL O/R)

Q)ZZZZ/QLAAO///...
E) APPROACH LIGHTING
SYSTEM OPR)

NOTAM selection criteria

CATEGORY: CNS — TERMINAL AND EN-ROUTE NAVIGATION FACILITIES (N)

SECOND AND THIRD LETTERS — SIGNIFICATION	CODE	Scope: AE					
Distance measuring equipment (DME)	ND	Traffic			Purpose		
FOURTH AND FIFTH LETTERS — SIGNIFICATION	CODE	I	V	N	B	O	M
Operating but ground checked only, awaiting flight check	AG	x	x		x	x	
Hours of service are now . . . (specify)	AH	x	x		x	x	
Resumed normal operation	AK						
Operative (or re-operative subject to previously published limitations/conditions)	AL						
Operational	AO						
Unserviceable	AS	x	x		x	x	
Completely withdrawn	AW	x	x		x	x	
Completed	CC						
Operating frequency(ies) changed to . . . (specify)	CF	x	x		x	x	
Identification or radio call sign changed to . . . (specify)	CI	x	x		x	x	
Changed	CH	x	x		x	x	
Displaced	CM	x	x		x	x	
Cancelled	CN						
Installed	CS	x	x		x	x	
On test, do not use	CT	x	x		x	x	
Interference from . . . (specify)	LF	x	x		x	x	
Operating without identification	LG	x	x		x	x	
Subject to interruption	LS	x	x		x	x	
Trigger	TT	x	x		x	x	
Plain language	XX						

Caution:
- o Systematic use of **code XX** should be avoided.
- o Use code XX only where none of code is applicable, in which case qualifiers Traffic and purpose should be empty

NOTAM selection criteria

(AXXXX/21 NOTAMR AXXXX/20
Q)ZZZZ/QXXXX/IV/NBO/AE/000/999/XXXXSXXXXXEXXX
A)ZZZZ B)2102021017 C) PERM
E)AERONAUTICAL FIXED SERVICE
-INSERT: SATELLITE LINK ZZZZ-XXXX ZZXX-XXZZ
-READ LINK ZZXX-XXZZ INSTEAD OF XXXX-ZZZZ.
AIP MODIFY PAGE XX)

Stay **inline** with the **codes and qualifiers linkage** provided by the **NOTAM selection criteria table**. This will permit the **selection** of the **suitable** NOTAM as applicable to the users need.

Caution:
- Misuse of qualifiers traffic and purpose.
- When code XX is used, qualifiers Traffic and purpose should be empty.
- Inserting purpose B will result to the selection of this NOTAM in the PIB

Post-flight information service

- For any aerodrome/heliport used for **international air operations**, **arrangements** shall be made to **receive** information concerning:

    – the **state** and **operation** of air navigation **facilities** or **services** noted by flight crews.

    – the **presence** of **wildlife hazards** observed by flight crews.

- Such information shall be made **available** to the aeronautical information service for **distribution** as the **circumstances necessitate**.

- In most cases, an **inadequacy** of a **facility** or the **presence** of **wildlife hazards** is reported by the pilot on the appropriate **ATS frequency**, and this information must then be **passed** on to the **responsible authority** and to **AIS** for required action.

Post-flight information service

- After landing, a **pilot** wishing to **confirm** in writing any **observations**, or wishing to make an **initial report**, may do so at the aerodrome/heliport **AIS unit**, where a **post-flight report form** should be **available**.

- A **specimen** post-flight report form is at **Figure 8-9,** *Doc 8126 Ed6*.

- **Copies** of the post-flight report form could also be made **available** in the airline **operator's offices** at the aerodrome/heliport to **facilitate filing** of post-flight reports by the pilot.

- **The report** must subsequently be made **available** to the **AIS without delay**.