

ASIA/PACIFIC REGIONAL SID/STAR PHRASEOLOGY IMPLEMENTATION STRATEGY

Considering that:

1. The harmonized use of phrases for ATC clearances promulgated in ICAO Doc 4444 – Procedures for Air Navigation Services (PANS-ATM) is a safety-critical requirement to ensure common understanding of pilots operating in many different terminal areas, in many different Flight Information Regions (FIRs);
2. The PANS-ATM Amendment 7-A, applicable on 10 November 2016, included new provisions relating to ATC clearance phrases for use in Standard Instrument Departure (SID) and Standard Instrument Arrival (STAR) operations;
3. The application of phrases used by ATC and pilots for SID/STAR operations prior to PANS-ATM Amendment 7-A was inconsistent and frequently confusing to pilots;
4. The Air Traffic Management Sub-Group (ATM/SG) of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG) concluded:

Conclusion ATM/SG/5-17: SID/STAR Phraseology

That, States are urged to take action to implement the SID/STAR-related phraseology included in Amendment 7 to Doc 4444 – PANS-ATM, ensuring that:

- 1. any phraseologies published in AIP are amended to comply with the new Doc 4444 standards relating to SID and STAR phraseologies; and*
 - 2. ATC and aircraft operator procedure manuals and training are updated to incorporate the new SID and STAR phraseologies.*
5. The implementation of the new phrases in PANS-ATM Amendment 7-A for use in SID/STAR has not been uniform across the Region, and continues to result in confusion to pilots and potential safety risks;
 6. Explanatory material supporting the implementation of the SID/STAR phraseology is available on the ICAO website at https://www.icao.int/airnavigation/sidstar/Pages/CHANGES-TO-SID_STAR-PHRA-SEOLOGIES.aspx; and
 7. The ICAO SID/STAR Implementation Support Team (ISSIST) was established to address barriers to harmonized implementation of PANS-ATM Amendment 7-A SID/STAR phraseology;

The APAC Regional SID/STAR Phraseology Implementation Strategy is as follows:

1. Asia/Pacific Administrations are urged to implement the use of the SID/STAR-specific phrases specified in PANS-ATM Sections 6.3.2.4 and 6.5.2.4 by **no later than 07 November 2019**;
2. The application of SID/STAR-specific phrases must occur on a common date for all SID/STAR promulgated in the State Aeronautical Information Publication (AIP);
3. Neighboring States should consider common implementation dates;

4. Implementation of SID/STAR-specific phrases should be undertaken as a joint project of the Air Navigation Service Provider, and the State Aviation Regulator;
5. The following checklist of actions should be followed by each Adminstrating when planning and implementing the use of the SID-STAR-specific phraseology:
 - a. Form a SID/STAR-specific phraseology implementation team, including appropriately qualified pilots, ATC, instrument flight procedure designers, AIS, ATM automation system and safety management experts, and regulators.
 - b. Ensure all steps in the implementation process are subject to appropriate safety management and regulatory oversight processes, as part of an overall project plan that includes a safety case;
 - c. Determine the implementation date for SID/STAR-specific phraseology, taking into account the checklist actions below;
 - i. The implementation date must conform with the Aeronautical Information Regulation and Control (AIRAC) provisions of Annex 15 – *Aeronautical Information Services*;
 - d. Evaluate current SID/STAR published in AIP, in collaboration with appropriately qualified operational pilot and ATC personnel;
 - i. Consider the impact of SID/STAR-specific phraseology;
 - ii. Make amendments as necessary to remove as far as possible the need for ATC interventions during normal operations; and
 - iii. Ensure any amended SID/STAR are promulgated in accordance with AIRAC;
 - e. Evaluate ATC information processing and/or ATM automation system capability to accommodate SID/STAR-specific phraseology and any amended SID/STAR:
 - i. Plan and prepare any necessary process changes and/or system upgrades.
 - f. Promulgate an Aeronautical Information Circular (AIC) informing all stakeholders of:
 - i. the SID/STAR-specific provisions of PANS-ATM Amendment 7-A;
 - ii. the planned implementation date; and
 - iii. the availability of advisory, guidance or other reference material;
 - g. Develop and deliver SID/STAR-specific phraseology training, for all Air Traffic Control (ATC) staff providing ATC clearances to flights for operations on SID/STAR;
 - i. Include both theoretical instruction and practical training in ATC training simulator, supported by both theory and practical examinations to ensure competency.
 - h. Include assessment of the correct use of SID/STAR-specific phraseology in ATC performance assessment and other relevant licensing processes;
 - i. Prepare SID/STAR-specific phraseology information and training packages for pilots;

- j. Coordinate and conduct safety oversight of the development and delivery of SID/STAR-specific phraseology procedures and training for pilots;
- k. Promulgate SID/STAR-specific phraseology in AIP Amendment or AIP Supplement, effective on the applicable AIRAC date and published in accordance with the advance-notification requirements of Annex 15.
- l. Monitor effective implementation.

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