

SOUTH AFRICAN



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AUTHORITY

REPUBLIC OF SOUTH AFRICA

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AERONAUTICAL INFORMATION CIRCULAR

AIC
40.9
08-05-09

AIR NAVIGATION SERVICES

GENERAL

THREE PHASED APPROACH TO THE IMPLEMENTATION OF RNAV_(GNSS) INSTRUMENT PROCEDURES IN SOUTH AFRICA

☞ Indicates changes.

☞ This AIC replaces AIC 40.9 dated 02-10-15 in total.

1. The intention of this AIC is to inform the aviation community that the CAA has initiated a project to implement RNAV_(GNSS) Instrument Procedures in South Africa.

BACKGROUND

2. The Global Air Navigation Plan, ICAO Doc 9750, guides regions in the full implementation of CNS/ATM Systems. Improvements in air navigation have seen the progressive introduction of RNAV fixed routes (SA AIP ENR 3.3-5 paragraph 3.3.6). In order to further the advantages gained by the implementation of these routes the introduction of RNAV arrivals/departures and Non-Precision Approaches (NPAs) will be required.
3. To facilitate the introduction of these procedures the world-wide CNS/ATM Systems Implementation Conference held in 1998 mandated the regional planning process and implementation of these procedures. ICAO Doc 9750 further stipulates that the AFI region must introduce fixed RNAV ATS from 1994 through to 2010. It goes onto to require RNAV arrivals/departures and NPAs to be introduced from 2003 onwards.
4. In order to comply with these requirements ATNS launched a trial called Project Gromet in 2002. This consisted of the use of RNAV_(GNSS) NPAs, arrivals and departures at FACT, FADN and FAJS in VMC only. Participation was limited to operators who satisfied certain requirements and who were strictly limited. In order to build on the success of project Gromet the CAA has decided to permanently implement RNAV_(GNSS) procedures in South Africa. These procedures will incorporate NPAs, SIDs and STARs and will **no longer** be limited to VMC operations only.

THREE PHASE IMPLEMENTATION

5. The 24th Amendment to the Civil Aviation Regulations (CAR), 1997, came into effect on 26 December 2006. This Amendment to the CAR enabled the implementation of RNAV_(GNSS) instrument procedures in South Africa. In order to obtain certification for the conducting of RNAV_(GNSS) operations operators, pilots and aircraft must comply with the requirements as stipulated in the Civil Aviation Regulations of 1997 as amended.
6. In order to responsibly implement RNAV_(GNSS) Instrument Procedures, the CAA has decided on the following three phased approach:
 - a. Phase 1: Phase 1 will be limited to Airlines who comply with SA CAA requirements and who are ready for immediate certification for RNAV_(GNSS) operations. This will include both local and international operators. This phase is to start with immediate effect.
 - b. Phase 2: Phase 2 will incorporate Airlines who are not immediately ready to satisfy SA CAA requirements for certification for RNAV_(GNSS) operations and business aviation organisations who comply with SA CAA requirements and are ready for immediate certification for RNAV_(GNSS) operations. This phase is expected to start upon completion of Phase 1.

- c. Phase 3: Phase 3 will incorporate all other aircraft and organisations, which were not included in Phase 1 and 2. This phase expected to start on the completion of phase 2.
7. The reasons for the phased implementation of RNAV _(GNSS) procedures is largely organisational as it will allow the SA CAA to create procedures and capacity to approve the large numbers of applicants requesting certification for RNAV _(GNSS) procedures. These procedures will include but not be limited to the following issues:
- a. The training of pilots.
 - b. The training of ATCs.
 - c. The approval of Training Institutions.
 - d. Approval of Airlines.
 - e. The certification of aircraft.
 - f. The validation of flight procedures.

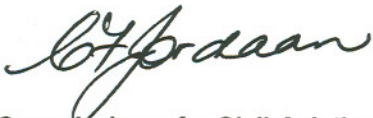
CONCLUSION

8. Operators who would like to participate in Phases 1 and 2 are requested to register their interest with:
- Project Manager: SA CAA RNAV _(GNSS) Implementation Project, SA CAA, Midrand

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Further notices in respect of implementation will follow.



Commissioner for Civil Aviation