



SUMMARY OF PROPOSAL



Performance-based communications and surveillance

CASA xx/18 — Required Communication Performance and Required Surveillance Performance (RCP 240 and RSP 180) Capability Declarations — Direction Instrument 2018

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Introduction

In November 2016, the International Civil Aviation Organization (ICAO) introduced provisions for the implementation of performance-based communication and surveillance (PBCS), in several Annexes to the Convention on International Civil Aviation and *Procedures for Air Navigation Services - Air Traffic Management (PANS-ATM)*.

The new provisions call for States to prescribe Required Communication Performance (RCP) and Required Surveillance Performance (RSP) specifications to Controller-Pilot Data Link Communications (CPDLC) and Automatic Dependent Surveillance - Contract (ADS-C) and apply them in addition to existing required navigation performance (RNP) specifications relating to the provision of separation between aircraft in certain oceanic airspace.

The ICAO Regional Supplementary Procedures (Doc 7030) is being amended to reflect the application of RCP and RSP specifications in the Asia and Pacific Regions commencing 29 March 2018.

Although CPDLC and ADS-C have been used in Australian Flight Information Regions (FIRs) for many years with satisfactory results and operational benefits, no decision has yet been made to apply the additional RCP and RSP criteria and to that effect, differences to the applicable ICAO provisions have been filed.

There are indications, from a survey conducted by ICAO in 2017, that some States will require aircraft operating in their FIR(s) to have an authorisation from their State of Registry or State of Operator that declares their RCP and RSP capabilities. Without such a declaration, an aircraft may not be allowed to operate on/at certain favourable routes or flight levels that are subject to new separation criteria based on RCP and RSP specifications. An authorisation issued by CASA would also be applicable to Australian FIRs if a decision was made to require these capabilities.

Policy consultation

It is proposed that the legislative instrument, CASA xx/18 — Required Communication Performance and Required Surveillance Performance (RCP 240 and RSP 180) Capability Declarations — Direction Instrument 2018, be issued to enable aircraft registered in Australia or operated by an Australian operator to declare RCP and RSP capabilities if required by a National Aviation Authority.

The legislative instrument is based on several conditions relating to:

- existing avionics;
- observed performance in Australian FIRs;
- aircraft documentation;
- agreement with communication service provider(s); and
- the training of flight crew and other relevant personnel of the operator.

In essence, aircraft that are conducting datalink operations satisfactorily will comply with operational requirements of the newly prescribed RCP and RSP specifications. However, additional work will be required by operators to update documents and provide appropriate training for their flight crew and other personnel.

Safety risk analysis

CASA conducted a safety risk analysis for the proposed instrument and concluded that it had no adverse aviation safety implications as any aircraft declaring the applicable RCP and RSP specifications would still be subject to normal operating conditions and separation minima.

Conversely, a non-declaring or non-compliant aircraft could be treated differently by Air Traffic Control (ATC) to maintain an equivalent level of safety to aircraft declaring the required specifications. Different treatment may have implications on the efficiency of the flight operation (e.g. more fuel burn when flying on lower flight levels).

Regulation impact statement

A Regulation Impact Statement (RIS) is not required because the instrument is covered by a standing agreement between CASA and OBPR under which a RIS is not required for directions (OBPR id: 14507).

Closing date for comment

CASA will consider all comments received as part of this consultation process and incorporate changes as appropriate. Comments on the draft **CASA xx/18 — Required Communication Performance and Required Surveillance Performance (RCP 240 and RSP 180) Capability Declarations — Direction Instrument 2018** should be submitted through the online response form by close of business 2 May 2018.