



Agenda Item 6: Any other business

SAIRE INITIATIVE

(Presented by Portugal)

Summary	
<p>This working paper presents the European intentions of establishing the SAIRE initiative and invites SAT/FIT to identify activities that contribute to improved environmental standards and operational procedures in the EUR/SAM oceanic routing areas. The meeting is invited to discuss joint venture projects identifying and engaging, when possible, the partners, and actions to be carried.</p>	
References: <ul style="list-style-type: none">• Report of the Committee on Aviation Environmental Protection, Eighth Meeting- Montréal, 1 – 12 February 2010 (Doc 9938, CAEP/8)• SAT/15 - WP 21, Lisbon, Portugal, 19-21 May 2010• GREPECAS/16 - NE/19, 28 March – 1 April 2011, Punta Cana, Dominican Republic	
ICAO Strategic objectives	<i>A – Safety</i> <i>D – Efficiency</i>

1 Background

1.1 The SESAR Joint Undertaking (Single European Sky ATM Research Joint Undertaking) is an European Community body in charge of all the development activities in Europe to deliver the new generation of Air Traffic Management systems and procedures under the Single European Sky framework.

1.2 The joint EU/US initiative AIRE (Atlantic Interoperability Initiative to Reduce Emissions) started in 2007 as a programme designed to reduce emissions through the implementation of joint projects and exchange of best practices. Since 2008, the SESAR Joint Undertaking is responsible for its management from a European perspective. The participants include ANSPs, airports, airlines and manufacturers from Europe, Canada, the United States, and Africa. Combined EU/US efforts have resulted in thousands of flight trials to date in real life operations.

1.3 During GREPECAS/16, March 2011, a joint working paper was presented by Brazil and the SESAR Joint Undertaking presenting the interest to establish a South-Atlantic Interoperability Initiative to Reduce Emissions (SAIRE) to accelerate the implementation of environmentally friendly procedures on the Europe - South America (EUR/SAM) oceanic routing areas. GREPECAS welcomed the proposal and remitted it to SAT- FIT for discussing further developments.

2 **Discussion**

2.1 The new SAIRE initiative will aim, similar to AIRE and other Regional ATM initiatives, to improve energy efficiency and lower aircraft noise through the development and implementation of environmentally friendly procedures for all phases of flight. The main ATM improvement opportunities identified in the EUR/SAM routes are linked to the certification of CPDLC and ADS-C in all FIRs routes and the possible addition of RANDOM routes in the area.

2.2 Based on the identified operational inefficiencies and deficiencies discussed in the previous SAT meeting, SAT/FIT is invited to discuss the practical aspects of the SAIRE establishment in the Region and prepare the ground for national commitment.

2.3 As example specific projects can be proposed for the following improvement areas/solutions:

- a) Oceanic trajectory optimization (horizontal, vertical, longitudinal);
- b) Reduced separations for RNP 4 equipped aircrafts (lateral, longitudinal);
- c) Optimized Oceanic Entry/Exit transition;
- d) Better use of Meteorological information;
- e) Continuous Descent Operations (CDO) procedures;
- f) Continuous Climb procedures;
- g) Optimized departure routings;
- h) Collaborative decision support systems that increase aircraft taxi time predictability allowing airlines to capitalize on use of fuel saving procedures such as reduced engine taxi out.

3 **Suggested action**

3.1 The meeting is invited to:

- a) Take note of the information provided;
- b) Identify potential projects and partners; and
- c) Engage stakeholders to join the SAIRE multi-lateral partnership that will be hastening the implementation of improving environmental procedures and standards in the Region.