Procedure for the assignment of

SSR Mode S Interrogator Identifier (II) Codes in the AFI Region

1 Introduction

1.1 The AFI Region has adopted a planning criteria for the international coordination of the assignment of SSR Mode S Interrogator Identifier (II) codes.

1.2 The planning criteria for the assignment of SSR Mode S Interrogator Identifier (II) codes are contained in Annex 10, Volume IV and, to some extent, further clarified in the Manual on the Secondary Surveillance Radar (SSR) Systems, ICAO Doc. 9684. These provisions in Annex 10 relevant to the international coordination of II-codes stipulate:

a) 2.1.2.1.2 The assignment of Interrogator Identifier (**II**) codes, where necessary in areas of overlapping coverage, across international boundaries of flight information regions, shall be the subject of regional air navigation agreements

b) 2.1.2.1.3 The assignment of Surveillance Identifier (**SI**) codes, where necessary in areas of overlapping coverage, shall be the subject of regional air navigation agreements.

1.3 The **SI** lockout facility cannot be used unless all Mode S transponders within coverage range are equipped for this purpose. For this reason, the planning criteria for the AFI Region only apply, by the time being to the use of SSR Mode S II codes **1-16**. These criteria cannot be used for the planning of SI codes **17 – 63**.

1.4 Although the provisions in Annex X Vol. IV § 2.1.2.1.2 and 2.1.2.1.3 seem to be somewhat overlapping, the main requirement is that where the assignment of II-codes can cause harmful interference to II-code assignment to other (ground) SSR codes international, coordination is required.

1.5 The AFI Regional Air Navigation Plan needs to include:

a) Regional Agreement of the SSR Mode S II-code assignment planning criteria to be applied in the international coordination

b) Procedure for the coordination of SRR Mode S II-code assignments.

2. Procedure for assignment of SSR Mode S Interrogator Identifier (II) Codes in the AFI Region

2.1 The procedure for the assignment of SSR Mode S Interrogator Identifier (II) Codes in the AFI Region aim to ensuring that the introduction of the SSR Mode S stations meets the agreed objectives of the AFI surveillance strategy.

2.2 The application of this procedure should ensure that neighboring SSR Mode S stations II code assignment meets the planning criteria agreed for international coordination at the regional and interregional level.

2.3 This procedure aims to ensure that within a States or group of AFI States hosting or intending to host and operate SSR Mode S stations, II codes are assigned with regard to the planning criteria and the operational objectives and requirements of the AFI Region.

2.4 States/Administrations who intend implement and operate SSR Mode S station (s) will send the request to the ICAO concerned Regional Office (ESAF, WACAF).

This request will contain:

The list of SSR Mode S installed or intended to be installed with their coordinates into WGS 84 format**.**

The **AFI II Codes Application Form** (**AFI-II CAF**) duly filled up with all relevant details ass may be useful (**See Appendix A**).

2.5 The Regional Office will assess the request, assign the II code and notify to the State and keep a temporary record. The Regional Office will keep in the Regional Data Base a final record of the assignment after confirmation of the effective implementation of the code by the State and inform if needed the concerned neighboring Region.

The steps of the procedure are summarized at **Appendix B.**

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Appendix A

AFI II Codes Application Form (AFI-II CAF)

Station Name			
Station Location	**Latitude**	**longitude**	**Comments**
			WGS84 Format
Station Height	**M**		
Radio Range	**NM**		
Designated Operational Range	**NM**		
Clustering	**Y/N**		
Clusterd Stations			**Names and location**

Appendix B

Procedure for the assignment of

SSR Mode S Interrogator Identifier (II) Codes in the AFI Region

