[Honduras] State Air Navigation Plan

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[Honduras]

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1. Introduction

This document is Honduras/AHAC's State Air Navigation Plan (ANP) describing the plan and status of aviation technology implementation. The background of the State ANP and the environment of our air navigation system are presented along with the method and process to evaluate and monitor aviation technology implementation.

1.1 Background

The ICAO Global Air Navigation Plan (Doc 9750, GANP) provides ICAO's vision to achieve sustainable growth of the global civil aviation system. It also presents all States with a comprehensive planning tool supporting a harmonized global air navigation system. The GANP is an overarching framework that includes key civil aviation policy principles to assist ICAO Regions and States with the preparation of their Regional and State Air Navigation Plans (ANPs).

Planning and Implementation Regional Groups (PIRGs) are expected to develop the regional ANPs reflecting the regional requirements. GANP obligates States to map their individual or regional programmes against the harmonized GANP, but provides them with far greater certainty of investment. GANP requires active collaboration among States through the PIRGs in order to coordinate initiatives within applicable regional ANPs.

The GANP introduces the Aviation System Block Upgrades (ASBU) methodology. The ASBU methodology and its description of future aviation capabilities define programmatic and flexible global systems engineering approaches allowing all States to advance their air navigation capacities based on their specific operational requirements.

To this extent, the North American, Central American and Caribbean (NACC) Regional Office (RO), has published the NAM/CAR Regional Performance-Based Air Navigation Implementation Plan (RPBANIP, v3.1 in April 2014) aligning the activities and strategies with the ICAO ASBU methodology.

This document is the ANP for Honduras/AHAC aligning activities and strategies to the GANP and RPBANIP. The information contained in the Honduras/AHAC ANP is related mainly to:

- Planning: objectives set, priorities and targets planned at the state level
- Implementation monitoring and reporting: monitoring the progress of implementation towards targets planned. This information should be used for reporting purposes (i.e.: global and regional air navigation reports and performance dashboards); and/or
- Guidance: providing state guidance material for the implementation of specific system/procedures in a harmonized manner.

The Honduras/AHAC ANP would be used as a tool for planning, monitoring, and reporting the status of implementation of the aviation capabilities.

1.2 Environment

The environments of Air Navigation of Honduras/AHAC, such as authority, airspace and airports, and air traffic are described in this section.

1.2.1 Authority of Honduras/AHAC

MISSION

Rector, plan, direct and monitor the provision of airport services, navigation and air transport, generating and promoting the strategic development of civil aviation, ensuring efficient and effective management of operational safety.

VISSION

The Honduran Agency of Civil Aeronautics will be recognized as a leading institution in International Civil Aviation that promotes and guarantees high standards of Operational Safety, through the comprehensive implementation of technology, strategic communication, research processes, innovation and development.

GENERAL PURPOSE

Improve the aeronautical services of the State of Honduras, through the establishment of regulations to guarantee operational safety, air space optimization and the development of the country's aeronautical sector, fostering specialized training processes, in a harmonious environment that strengthens the management of the institution with a transcendental approach, which in turn minimizes the environmental impact inherent to civil aviation.

SPECIFIC OBJECTIVES

Promote and develop civil aviation policies to strengthen the regulatory environment, thus generating a structured airspace that promotes performance-based navigation, in order to streamline the air navigation services provided by the State of Honduras. Guarantee the operational safety of air transport users, through the issuance of Air Operator Certificates, Licensing of Aeronautical Personnel and Inspections of Operations and Airworthiness, which guarantee strict compliance with the regulations of the Honduran Agency of Civil Aviation and the International Civil Aviation Organization. To promote the academic preparation of technical personnel specialized in the aeronautical sector, generating specific training programs.



Figure 1.2.1: Organizational Structure of Honduras

1.2.2 Airspace

Honduras is located within the Central America Flight Information Region (FIR) that is managed by COCESNA and operated by CENAMER Area Control Centre/Flight Information Center in the Upper FIR. The AHAC manages the Honduras Lower Flight Information Region (FIR). Refer to Figure 1.2.2 for the airspace of Honduras and the Central American FIR

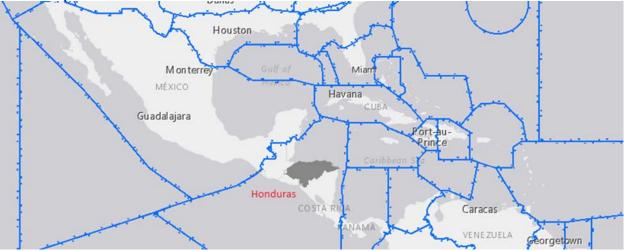


Figure 1.2.2: Central America FIR and Honduras

1.2.3 Aerodromes

One Airport, Ramon Villeda Morales (MHLM). This aerodrome is listed in the ICAO's regional ANP titled, "Caribbean and South American Air Navigation Plan, Volume I (dated October 2015), Table AOP I-1, International Aerodromes Required in the CAR/SAM Regions". The MHLM has the capacity of 5-7 air traffic movements per hour.

	Runway 04	Runway 22
Length x Width	9203 ft x 148 ft	9203 ft x 148 ft
Surface Type	asphalt	asphalt
TDZ-Elev	89 ft	89 ft
Lighting	Edge, REIL, twy edge, apron	edge
Displace Threshold	NIL	NIL

Runway Information on Ramon Villeda Morales Airport (MHLM)

1.2.4 Traffic Forecast

Number of typical daily operation (arrivals/departures) at Ramon Villeda Morales Airport (MHLM) are 55/55 (total of 110 movements). The RPBANIP forecasted that average annual growth of air traffic in the Caribbean region would increase 5.9% during 2011-2031. The My Organization believes that this overall Caribbean regional forecast of annual increase of 5.9% is too optimistic for My Organization and more moderate number of 3.0% annual increase might realistic anticipation. Estimated daily operations at MHLM are shown in Tables 1.2.4a and 1.2.4b applying the increase forecasts to each year from 2017 to 2031.

Year	MHLM
2017	110
2018	116
2019	123
2020	131
2021	138
2022	147
2023	155
2024	164
2025	174
2026	184
2027	195
2028	207
2029	219
2030	232
2031	245

MHLM
110
113
117
120
124
128
131
135
139
144
148
152
157
162
166

XX X X

Table 1.2.4a: Air Traffic Forecasts at MHLM (number of daily operation) using annual increase rate of 5.9%

Table 1.2.4b: Air Traffic Forecasts at MHLM (number of daily operation) using annual increase rate of 3.0%

1.3 Planning Methodology

Guided by the GANP and RPBANIP, the state planning process starts by identifying the state responsible ATM areas, major traffic flows and international aerodromes. An analysis of this data leads to the identification of opportunities for performance improvement. Available technologies and ASBU Elements are evaluated to identify which Elements best provide the needed operational improvements. Depending on the complexity of the selected technology or Elements, additional planning steps may need to be undertaken including financing and training needs. Finally, state plans would be developed for the deployment of improvements and supporting requirements. This is an iterative planning process which may require repeating several steps until a final plan with specific regional targets is in place. This planning methodology requires full involvement of States, service providers, airspace users and other stakeholders, thus ensuring commitment by all for implementation.

Considering that some of the ASBU Modules contained in the GANP are specialized packages of implementable capabilities, called Elements, that may be applied where specific operational requirements or corresponding benefits exist, States will decide how each ASBU Element would fit into national and regional plans.

In establishing and updating the implementation priorities detailed in the Honduras/AHAC ANP, due consideration should be given to the safety priorities set out in the Global Aviation Safety Plan (GASP) and the NAM/CAR regional safety strategy. Honduras/AHAC would establish its own air navigation objectives, priorities and targets to meet its individual needs and circumstances in line with the global and regional air navigation objectives, priorities, and targets.

1.4 Air Navigation Planning Process

The air navigation planning process prescribes evaluation, implementation, reviewing, reporting, and monitoring activities. It is recommended to conduct the process on a cyclical, annual basis. An Air Navigation Reporting Form (ANRF) is a tool to monitor and report the implementation status of capabilities. The Honduras/AHAC ANRF is a customized tool for the application of setting planning targets, monitoring implementation, and identifying challenges, measuring implementation/performance and reporting. The ANRF reflects selected key performance areas as defined in the Manual on Global Performance of the Air Navigation System (ICAO Doc 9883).

Many of the future capabilities are described in terms of ASBU Elements. Some capabilities are specific to the need of the Caribbean Region and/or the State needs. These specific needs are described as Regional Aviation System Improvements (RASI) and State Aviation System Improvements (SASI). Both Analysis and Work Flow and ANRF are useful to manage the implementation status of ASBU, RASI, and SASI capabilities.

1.4.1 Analysis and Work Flow Process

Figure 1.4.1 depicts the workflow for analyzing and implementing ASBU Elements. This flow process should be applied to each of the ASBU Elements. If the Element is applicable to an airport, each airport needs to be evaluated through this flow process. This same flow process is applicable to RASI and SASI.

The significance of each step in the workflow as it pertains to regional planning is as follows:

- Analysis Not Started The requirement to implement this ASBU Element has not yet been assessed
- Analysis In Progress A Need Analysis as to whether or not this ASBU Element is required, is in progress
- N/A The ASBU Element is not required
- **Need** The Need Analysis concluded that the ASBU Element is required, but planning for the implementation has not yet begun
- **Planning** Implementation of this ASBU Element is planned, but not yet started
- **Developing** Implementation of this ASBU Element is in the development phase, but not yet operational
- **Partially Implemented** Implementation of this ASBU Element is partially completed and/or operational but all planned implementations are not yet complete
- **Implemented** Implementation of this ASBU Element has been completed and/or is fully operational everywhere the need was identified

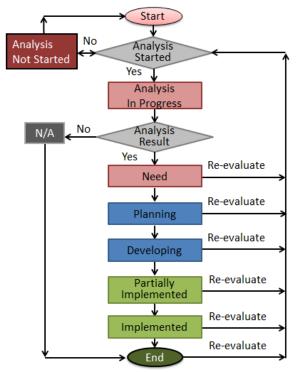


Figure 1.4.1: Analysis and Work Flow

The Need Analysis of ASBU Elements will identify which ASBU Elements are required. In this context, "required" means that the benefits estimated from the implementation would justify the associated implementation costs, or, the potential safety benefits are deemed to justify the implementation costs. The implementation status of ASBU Elements which are not required should be indicated as "N/A", meaning "not applicable".

The analysis and implementation status determined in accordance with the above is reflected in the applicable ANRFs and in the ASBU Implementation Status Tables.

1.4.2 Monitoring and Reporting Results

Monitoring and reporting results will be analyzed by the Regions, States and the ICAO Secretariat to steer the air navigation improvements, take corrective actions and review the allocated objectives, priorities and targets if needed. The results will also be used by ICAO and aviation partner stakeholders to develop the annual Global Air Navigation Report. The report results will provide an opportunity for the international civil aviation community to compare progress across different ICAO regions in the establishment of air navigation infrastructure and performance-based procedures. The reports will also provide the ICAO Council with detailed annual results on the basis of which tactical adjustments will be made to the performance framework work programme, as well as triennial policy adjustments.

The information provided in the Honduras/AHAC ANRFs should be periodically reviewed and updated if subsequent analysis results in a change to the applicability of any ASBU Elements, whether or not they were selected. The explanation of ANRF is provided in Appendix A. The customized Honduras/AHAC ASBU Air Navigation Reporting Form Template is provided in Appendix B. The Honduras/AHAC RASI and SASI Air Navigation Reporting Form Templates are provided in Appendix C.

1.5 Problem Identification

To provide and promote safe and efficient aviation services to the customers, it is important to resolve ongoing challenges that hindering the mission. It is also important to anticipate and address the potential problems in the future.

1.5.1 Existing Problems

The demands for MHLM are only expected to increase in the future. The current infrastructure at both airports, notwithstanding upgrades and expansions over the years, does not adequately meet peak capacity demand. The solution requires a huge investment in airport infrastructure. This includes airport terminal development, runway and turning bay reconstruction and rehabilitation, total drainage redevelopment, new control tower and technical block, and continuous modernization of communication, navigation, and surveillance equipment (e.g. Performance Based Navigation procedures (PBN). The formal implementation of Standard Instrument Departure procedures (SIDs) would improve on the safety, efficiency and management of airspace capacity.

In addition, airport operations need to be improved by introducing capabilities such as Airport Collaborative Decision Making (ACDM). To support airport operations, having accurate and timely weather and aeronautical information is essential. Information such as aerodrome warnings and wind shear warnings/alerts will increase safety of operations. Securing quality data should also be accomplished by introducing the Quality Management System (QMS) to both weather and aeronautical data.

A fundamental component which is critical concern, is the availability of human resource to meet the wide-ranging needs of airport operations. The provision of relevant training for that human resource is paramount.

1.5.2 Future Problems

Anticipating heavier demand at the MHLM airport, the introduction of a Ground Based Argumentation System (GBAS) landing system procedure would be effective.

The human resource issues, if not addressed in tandem with the infrastructure and procedure development, could result in deficient service provision and delivery. Human resource acquisition and development must coincide with the infrastructure and procedure development.

2. Honduras/AHAC's Aviation System Block Upgrade (ASBU) Implementation Status

The status of ASBU implementation is provided in this section. Though there are Block 0 to Block 4 (B0, B1, B2, and B3), only B0 capacities are ready to be implemented with supporting documents such as standards, procedures, specifications, and training materials. ICAO will provide supporting documents for B1 in 2019, B2 in 2025, and B3 in 2031.

2.1 ASBU Block 0 Implementation Metrics, Targets, and Status

ASBU B0 Implementation Targets and Status are presented in this section. AHAC consider one airport, Ramon Villeda Morales (MHLM) for airport oriented Elements.

2.1.1 ASBU B0 Implementation Metrics and Targets

Table 2.1.1 provides the ASBU B0 Implementation Metrics, Targets, and Progress for each B0 Element.

Block 0 Modules	Elements	Metrics	Targets	Status & Remarks
		Performance Improvement Area 1: Airpor	t Operations	
ACDM	1. Interconnection between aircraft operator & ANSP systems to share surface operations information	 Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None or 1</i> c. How many aerodromes implemented the capability? <i>None or 1</i> 	 B0-ACDM-1 Target 1: Assessed in Aug 2018 a. Yes b. None B0-ACDM-1 Target 2 Assessed date N/A c. None 	Status – N/A
	2. Interconnection between aircraft operator & airport operator systems to share surface operations information	 Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None</i>, c. How many aerodromes implemented the capability? <i>None</i>, 	 B0-ACDM-2 Target 1: Assessed in Aug 2018 a. Yes b. None B0-ACDM-2 Target 2 Assessed date N/A c. None 	Status – N/A
	3. Interconnection between airport operator & ANSP systems to share surface operations information	 Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None or 1</i> c. How many aerodromes implemented the capability? <i>None or 1</i> 	 B0-ACDM-3 Target 1: Assessed in Aug 2018 a. Yes b. None B0-ACDM-3 Target 2 Assessed date N/A c. None 	Status – N/A
	4. Interconnection between airport operator, aircraft operator & ANSP systems to share surface operations information	 Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None or 1</i> c. How many aerodromes implemented the capability? <i>None or 1</i> 	B0-ACDM-4 Target 1: Assessed in Aug 2018 a. Yes b. None B0-ACDM-4 Target 2 Assessed date N/A c. None	Status – N/A
	5. Collaborative departure queue management	 Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None or 1</i> c. How many aerodromes implemented the capability? <i>None or 1</i> 	 B0-ACDM-5 Target 1: Assessed in Aug 2018 a. Yes b. 1 (MHLM) B0-ACDM-5 Target 2: Implement by Dec 2019 c. 1 (MHLM) 	Status – Planning

Block 0 Modules	Elements	Metrics	Targets	Status & Remarks
APTA	1. PBN approach procedures with vertical guidance to LNAV/VNAV minima	 Number of aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None or 1 c. How many aerodromes implemented the capability? None or 1 	 B0-APTA-1 Target 1: Assessed in Aug 2018 a. Yes b. 1 (MHLM) B0-APTA-1 Target 2: Implemented in Aug 2008 c. 1 	Status – Implemented GNSS procedure implemented.
	2. PBN approach procedures with vertical guidance to LPV minima	Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None or 1</i> c. How many aerodromes implemented the capability? <i>None or 1</i>	B0-APTA-2 Target 1: Assessed in Aug 2018 a. None b. None B0-APTA-2 Target 2: c. N/A	Status – N/A
	3. PBN Approach Procedures without vertical guidance (LP, LNAV minima; using SBAS)	Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None or I</i> c. How many aerodromes implemented the capability? <i>None or I</i>	B0-APTA-3. Target 1: Assessed in Aug 2018 a. Yes b. 1 B0-APTA-3 Target 2: Implemented in Aug 2008 c. 1	Status – Implemented GNSS procedure implemented.
	4. GBAS Landing System (GLS) Approach procedures	Nome of 1 aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None or 1 c. How many aerodromes implemented the capability? None or 1	 B0-APTA-4. Target 1: Assessed in Aug 2018 a. No b. 1 B0-APTA-4. Target 2: Assessed date N/A c. None 	Status – N/A
RSEQ	SEQ1. AMAN via controlled time of arrival to a reference fixNumber of aerodromes to be considered: 1 a. Have we assessed the need?B0-RSEQ-1. T Assessed in Aug a. Nob. How many aerodromes need this capability? None or 1b. 1 B0- RSEQ-1 T B0- RSEQ-1 T	b. 1 B0- RSEQ-1 Target 2: Assessed date N/A	Status – N/A	
	2. Departure management	Number of aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None or 1 c. How many aerodromes implemented the capability? None or 1	B0-RSEQ-2. Target 1: Assessed in Aug 2018 a. Yes b. 1 B0-RSEQ-2. Target 2: c. None	Need
	3. Departure flow management	Number of a erodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None or 1 c. How many aerodromes implemented the capability? None or 1	B0-RSEQ-3. Target 1: Assessed in Aug 2018 a. No b. None B0-RSEQ-3. Target 2: Assessed date N/A c. None	Status – N/A
	4. Point merge	 Number of aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None or 1 c. How many aerodromes implemented the capability? None or 1 	B0-RSEQ-4. Target 1: Assessed in Aug 2018 a. No b. None B0-RSEQ-4. Target 2: Assessed date N/A c. None	Status – N/A

Block 0 Modules	Elements	Metrics	Targets	Status & Remarks
SURF	1. A-SMGCS with at least one cooperative surface surveillance system	 Number of aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None or 1 c. How many aerodromes implemented the capability? None or 1 	B0-SURF-1. Target 1: Assessed in Aug 2018 a. No b. None B0-SURF-1. Target 2: Assessed date N/A c. None	Status – N/A
	2. Including ADS-B APT as an element of A-SMGCS	Number of aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None or 1 c. How many aerodromes implemented the capability? None or 1	 B0-SURF-2. Target 1: Assessed in Aug 2018 a. No b. None B0-SURF-2. Target 2: Assessed date N/A c. None 	Status – N/A
	3. A-SMGCS alerting with flight identification information	Number of aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None or 1 c. How many aerodromes implemented the capability? None or 1	B0-SURF-3. Target 1: Assessed in Aug 2018 a. No b. None B0-SURF-3. Target 2: Assessed date N/A c. None	Status – N/A
	4. EVS for taxi operations	Number of aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None or 1 c. How many aerodromes implemented the capability? None or 1	B0-SURF-4. Target 1: Assessed in Aug 2018 a. No b. None B0-SURF-4. Target 2: c. Assessed date N/A	Status – N/A
	5. Airport vehicles equipped with transponders	Number of aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None or 1 c. How many aerodromes implemented the capability? None or 1	B0-SURF-5. Target 1: Assessed in Aug 2018 a. No b. None B0-SURF-5. Target 2: Assessed date N/A c. None	Status – N/A
WAKE	1. New PANS- ATM wake turbulence categories and separation minima	ICAO has not developed new minima.	N/A	Status – N/A
	2. Dependent diagonal paired approach procedures for parallel runways with centrelines spaced less than 760 meters (2,500 feet) apart	 Number of aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None or 1 c. How many aerodromes implemented the capability? None or 1 	B0- WAKE -2. Target 1: Assessed in Aug 2018 a. No b. None B0- WAKE -2. Target 2: Assessed date N/A c. None	Status – N/A
	3. Wake independent departure and arrival procedures for parallel runways with centrelines spaced less than 760 meters (2,500 feet) apart	Nome of a aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None or 1 c. How many aerodromes implemented the capability? None or 1	B0- WAKE -3. Target 1: Assessed in Aug 2018 a. No b. None B0- WAKE -3. Target 2: Assessed date N/A c. None	Status – N/A

Block 0 Modules	Elements	Metrics	Targets	Status & Remarks
	4. Wake turbulence mitigation for departures procedures for parallel runways with centrelines spaced less than 760 meters (2,500 feet) apart	 Number of aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None or 1 c. How many aerodromes implemented the capability? None or 1 	 B0- WAKE -4. Target 1: Assessed in Aug 2018 a. No b. None B0- WAKE -4. Target 2: Assessed date N/A c. None 	Status – N/A
	5. 6 wake turbulence categories and separation minima	Number of aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None or 1 c. How many aerodromes implemented the capability? None or 1	B0- WAKE -5. Target 1: Assessed in Aug 2018 a. Yes b. 1 B0- WAKE -5. Target 2: Assessed date N/A c. None	Status – N/A
	Perf	formance Improvement Area 2: Globally Interope	erable Systems and Data	
AMET	1. WAFS	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-AMET-1.Target 1: Assessed in Aug 2018 a. Yes b. Yes B0-AMET-1.Target 2: Implemented in Jan 2000 c. Yes	Status – Implemented
	2. IAVW	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-AMET-2. Target 1: Assessed in Aug 2018 a. Yes b. Yes B0-AMET-2. Target 2: Implemented in Jan 2000 c. Yes	Status – Implemented
	3. TCAC forecasts	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	 B0-AMET-3. Target 1: Assessed in Aug 2018 a. Yes b. Yes B0-AMET-3.Target 2: Implemented in Jan 2000 c. Yes 	Status – Implemented
	4. Aerodrome warnings	Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None or I</i> c. How many aerodromes implemented the capability? <i>None or I</i>	B0-AMET-4. Target 1: Assessed in Aug 2018 a. Yes b. 1 B0-AMET-4.Target 2: c. None	Status – Need
	5. Wind shear warnings and alerts	Number of a erodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None or 1 c. How many aerodromes implemented the capability? None or 1	B0-AMET-5. Target 1: Assessed in Aug 2018 a. Yes b. 1 B0-AMET-5.Target 2: c. None	Status – Need
	6. SIGMET	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	 B0-AMET-6. Target 1: Assessed in Aug 2018 a. Yes b. Yes B0-AMET-6. Target 2: Implemented in Jan 2000 c. Yes 	Status – Implemented

Block 0 Modules	Elements	Metrics	Targets	Status & Remarks
	7. Other OPMET information (METAR, SPECI and/or TAF)	Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability?	B0-AMET-7. Target 1: Assessed in Aug 2018 a. Yes b. Yes	Status – Implemented
		 None or 1 c. How many aerodromes implemented the capability? None or 1 	B0-AMET-7. Target 2: Implemented in Jan 2000 c. Yes	
	8. QMS for MET	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-AMET-8. Target 1: Assessed in Aug 2018 a. Yes b. Yes B0-AMET-8.Target 2: c. No	Status - Need
DATM	1. Aeronautical Information Exchange Model (AIXM)	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-DATM-1. Target 1: Assessed in Aug 2018 a. Yes b. Yes B0-DATM-1. Target 2: c. Yes	Status –partially Implemented
	2. eAIP	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	 B0-DATM-2. Target 1: Assessed in Aug 2018 a. Yes b. Yes B0-DATM-2. Target 2: Implemented in may 2018 c. Yes 	Status – Implemented
	3. Digital NOTAM	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-DATM-3. Target 1: Assessed in Dec 2016 a. Yes b. Yes B0-DATM-3. Target 2: a. No	Status – Need
	4. eTOD	 Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None or 1</i> c. How many aerodromes implemented the capability? <i>None or 1</i> 	 B0-DATM-4. Target 1: Assessed in Aug 2018 a. Yes b. 1 B0-DATM-4. Target 2: Implemented by dec 2019 c. None 	Status – Developing
	5. WGS-84	 a. Have we assessed the need? <i>Yes or No</i> b. Do we need this capability? <i>Yes or No</i> c. Have we implemented the capability? <i>Yes or No</i> 	 B0-DATM-5. Target 1: Assessed in Aug 2018 a. Yes b. Yes B0-DATM-5. Target 2: Implemented in Jan 1993 c. Yes 	Status – Implemented
	6. QMS for AIM	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-DATM-6. Target 1: Assessed in Dec 2016 a. Yes b. Yes B0-DATM-6. Target 2: a. No	Status – Need
FICE	1. AIDC to provide initial flight data to adjacent ATSUs	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	 B0-FICE-1. Target 1: Assessed in Aug 2018 a. Yes b. Yes B0-FICE-1. Target 2: Implemented by jun 2019 c. No 	Status – Developing

Block 0 Modules	Elements	Metrics	Targets	Status & Remarks
	2. AIDC to update previously coordinated flight data	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	 B0-FICE-2. Target 1: Assessed in Aug 2018 a. Yes b. Yes B0-FICE-2. Target 2: Implemented by jun 2019 c. No 	Status – Developing
	3. AIDC for control transfer	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	 B0-FICE-3. Target 1: Assessed in Dec 2016 a. Yes b. Yes B0-FICE-3. Target 2: Implemented by jun 2019 c. No 	Status – Developing
	4. AIDC to transfer CPDLC logon information to the Next Data Authority	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-FICE-4. Target 1: Assessed in Aug 2018 a. Yes b. Yes B0-FICE-4. Target 2: Implemented by jun 2019 c. No	Status – Developing
	Per	formance Improvement Area 3: Optimum Capac	city and Flexible Flights	
ACAS	1. ACAS II (TCAS version 7.1)	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-ACAS-1. Target 1: Assessed in Aug 2018 a. Yes b. No B0-ACAS-1. Target 2: c. N/A	Status – N/A
	2. Auto Pilot/Flight Director (AP/FD) TCAS	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-ACAS-2. Target 1: Assessed in Aug 2018 a. Yes b. No B0-ACAS-2. Target 2: c. N/A	Status – N/A
	3. TCAS Alert Prevention (TCAP)	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-ACAS-3. Target 1: Assessed in Aug 2018 a. Yes b. No B0-ACAS-3. Target 2: c. N/A	Status – N/A
ASEP	1. ATSA-AIRB	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-ASEP -1. Target 1: Assessed in Aug 2018 a. Yes b. No B0-ASEP -1. Target 2: c. N/A	Status – N/A
	2. ATSA-VSA	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0- ASEP -2. Target 1: Assessed in Aug 2018 a. Yes b. No B0- ASEP -2. Target 2: c. N/A	Status – N/A
ASUR	1. ADS-B	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-ASUR-1. Target 1: Assessed in Aug 2018 a. Yes b. Yes B0-ASUR-1. Target 2: Implement by May 2019 c. No	Status – Planning
	2. Multilateration (MLAT)	 Number of aerodromes to be considered: 2 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None or 1</i> c. How many aerodromes implemented the capability? <i>None or 1</i> 	B0-ASUR-2. Target 1 Assessed in Aug 2018 a. Yes b. No B0-ASUR-2. Target 2: c. N/A	Status - N/A

Block 0 Modules	Elements	Metrics	Targets	Status & Remarks
FRTO	1. CDM incorporated into airspace planning	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-FRTO-1. Target 1: Assessed in Aug 2018 a. Yes b. Yes B0-FRTO-1. Target 2: c. No	Status - Need
	2. Flexible Use of Airspace (FUA)	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	 B0-FRTO-2. Target 1: Assessed in Aug 2018 a. No b. No B0-FRTO-2. Target 2: c. N/A 	Status - N/A
	3. Flexible route systems	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-FRTO-3. Target 1 Assessed in Aug 2018: a. Yes b. Yes B0-FRTO-3. Target 2: Implement by Dec 2018 c. No	Status - Developing
	4. CPDLC used to request and receive re-route clearances	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-FRTO-4. Target 1: Assessed in Dec 2016 a. Yes b. Yes B0-FRTO-4. Target 2: Implement by Dec 2018 c. No	Status - Developing
	1. Sharing prediction of traffic load for next day	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-NOPS-1. Target 1: Assessed in Sep 2017 a. Yes b. Yes B0-NOPS-1. Target 2: Implement by Dec 2019 c. No	Status – Developing
	2. Proposing alternative routings to avoid or minimize ATFM delays	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-NOPS-2. Target 1: Assessed in Aug 2018 a. Yes b. No B0-NOPS-2. Target 2: c. No N/A	Status - N/A
OPFL	1. ITP using ADS-B	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0- OPFL -1. Target 1: Assessed in Aug 2018 a. No b. No B0- OPFL -1. Target 2:	Status - N/A
(S ⁻ 2. Wa 3. Alt	1. Short Term Conflict Alert (STCA)	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	c. N/A B0-SNET-1. Target 1: Assessed in Aug 2018 a. Yes b. Yes B0-SNET-1. Target 2: Implement by Apr 2019 c. N/A	Status - Developing
	2. Area Proximity Warning (APW)	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-SNET-2. Target 1: Assessed in Aug 2018 a. Yes b. Yes B0-SNET-2. Target 2: Implement by Apr 2019 c. N/A	Status - Developing
	3. Minimum Safe Altitude Warning (MSAW)	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-SNET-3. Target 1: Assessed in Aug 2018 a. Yes b. Yes B0-SNET-3. Target 2: Implement by Apr 2019 c. N/A	Status - Developing

Block 0 Modules	Elements	Metrics	Targets	Status & Remarks
	4. Medium Term Conflict Alert (MTCA)	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-SNET-4. Target 1: Assessed in Aug 2018 a. Yes b. Yes B0-SNET-4. Target 2: Implement by Apr 2019 c. N/A	Status - Developing
		Performance Improvement Area 4: Efficier	nt Flight Paths	
CCO	1. Procedure changes to facilitate CCO	 Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None or 1</i> c. How many aerodromes implemented the capability? <i>None or 1</i> 	B0-CCO-1. Target 1: Assessed in Aug 2018 a. Yes b. 1 B0-CCO-1. Target 2: Implement Aug 2008 c. 1	Status - Implemented
	2. Route changes to facilitate CCO	 Number of aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None or 1 c. How many aerodromes implemented the capability? None or 1 	B0-CCO-2. Target 1: Assessed in Aug 2018 a. Yes b. 1 B0-CCO-1. Target 2: Implement Aug 2008 c. 1	Status - Implemented
	3. PBN SIDs	 Number of aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None or 1 c. How many aerodromes implemented the capability? None or 1 	B0-CCO-3. Target 1: Assessed in Aug 2018 a. Yes b. 1 B0-CCO-3. Target 2: Implement Aug 2008 c. 1	Status - Implemented
CDO	1. Procedure changes to facilitate CDO	Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None or I</i> c. How many aerodromes implemented the capability? <i>None or I</i>	B0-CDO-1. Target 1: Assessed in Aug 2018 a. Yes b. 1 B0- CDO -1. Target 2: Implement Aug 2008 c. 1	Status - Implemented
	2. Route changes to facilitate CDO	Number of aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None or I c. Have we implemented the capability? None or I	B0- CDO -2. Target 1: Assessed in Aug 2018 a. Yes b. 1 B0- CDO -2. Target 2: Implement Aug 2008 c. 1	Status - Implemented
	3. PBN STARs	Number of aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None or I c. How many aerodromes implemented the capability? None or I	B0-CCO-3. Target 1: Assessed in Aug 2018 a. Yes b. 1 B0-CCO-3. Target 2: Implement Aug 2008 c. 1	Status - Implemented
ТВО	1. ADS-C over oceanic and remote areas	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0- TBO -1. Target 1: Assessed in Aug 2018 a. No b. No B0- TBO -1. Target 2: c. N/A	Status - N/A
	2. CPDLC over continental areas	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0- TBO -1. Target 1: Assessed in Aug 2018 a. No b. No B0- TBO -2. Target 2: c. N/A	Status - N/A

Block 0 Modules	Elements	Metrics	Targets	Status & Remarks
	3. CPDLC over oceanic and remote areas	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	 B0- TBO -3. Target 1: Assessed in Aug 2018 a. No b. No B0- TBO -3. Target 2: c. N/A 	Status - N/A
	4. SATVOICE direct controller-pilot communication (DCPC)	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	 B0- TBO -4. Target 1: Assessed in Aug 2018 a. No b. No B0- TBO -4. Target 2: c. N/A 	Status - N/A

Table 2.1.1: ASBU B0 Implementation Metrics and Targets

2.1.2 ASBU B0 Implementation Status Summary

The summary of ASBU B0 implementation status is provided in the Table 2.1. The details of ASBU B0 implementation status is recorded using ANRFs and provided in Appendix D.

			Need A	nalysis		-		ation St t is need	
Module	Elements Not Started		Need	V/N	Planning	Developing	Partially Implemented	Implemented	
	Performance Improvement Area 1: Airpo	ort Ope	rations	·		·			
ACDM	 Interconnection between aircraft operator & ANSP systems to share surface operations information 				1				
	2. Interconnection between aircraft operator & airport operator systems to share surface operations information				1				
	3. Interconnection between airport operator & ANSP systems to share surface operations information				1				
	 Interconnection between airport operator, aircraft operator & ANSP systems to share surface operations information 				1				
	5. Collaborative departure queue management					1			
APTA	 PBN approach procedures with vertical guidance to LNAV/VNAV minima 								1
	2. PBN approach procedures with vertical guidance to LPV minima				1				
	3. PBN approach procedures without vertical guidance to LNAV minima								1
	4. GBAS Landing System (GLS) procedures to CAT I minima				1				
RSEQ	1. AMAN via controlled time of arrival to a reference fix				1				
	2. Departure management			1					
	3. Departure flow management				1				
	4. Point merge				1				
SURF	1. A-SMGCS with at least one cooperative surface surveillance system				1				
	2. Including ADS-B APT as an element of A-SMGCS				1				
	3. A-SMGCS alerting with flight identification information				1				
	4. EVS for taxi operations				1				
	5. Airport vehicles equipped with transponders				1				
WAKE	1. New PANS-ATM wake turbulence categories and separation minima				1				
	 Dependent diagonal paired approach procedures for parallel runways with centrelines spaced less than 760 meters (2,500 feet) apart 				1				
	 Wake independent departure and arrival operations (WIDAO) for parallel runways with centrelines spaced less than 760 meters (2,500 feet) apart 				1				
	 Wake turbulence mitigation for departures (WTMD) procedures for parallel runways with centrelines spaced less than 760 meters (2,500 feet) apart based on observed crosswinds 				1				

			Need A	Analysis	5			ation Si t is need	
Module	Elements		In Progress	Need	N/A	Planning	Developing	Partially Implemented	Implemented
	5. 6 wake turbulence categories and separation minima				1				
	Performance Improvement Area 2: Globally Interop	erable	System	is and I	Data	1		r –	1
AMET	1. WAFS								√
	2. IAVW 3. TCAC forecasts		<u> </u>						
	CAC forecasts Aerodrome warnings			1					N
	5. Wind shear warnings and alerts			1					
	6. SIGMET			1					
	7. Other OPMET information (METAR, SPECI and/or TAF)								1
	8. QMS for MET								
DATM	1. Standardized Aeronautical Information Exchange Model (AIXM)			,					
	2. eAIP								
	3. Digital NOTAM								
	4. eTOD						1		
	5. WGS-84								\checkmark
	6. QMS for AIM			\checkmark					
FICE	1. AIDC to provide initial flight data to adjacent ATSUs						\checkmark		
	2. AIDC to update previously coordinated flight data								
	3. AIDC for control transfer								
	4. AIDC to transfer CPDLC logon information to the Next Data						\checkmark		
	Authority Performance Improvement Area 3: Optimum Capa		J 171*1	LL TH-					
ACAS	1. ACAS II (TCAS version 7.1)	ienty an	u Flexi			[[[
neno	2. AP.FD function				V				
	3. TCAP function				V				
ASEP	1. ATSA-AIRB								
	2. ATSA-VSA				\checkmark				
ASUR	1. ADS-B								
	2. Multilateration (MLAT)								
FRTO	1. CDM incorporated into airspace planning								
	2. Flexible Use of Airspace (FUA)								
	3. Flexible routing	<u> </u>					1		
Nora	4: CPDLC used to request and receive re-route clearances						√		
NOPS	Sharing prediction of traffic load for next day Demonstrate attraction at a minimizer ATEM delayer	 					V		
OPEI	 Proposing alternative routings to avoid or minimize ATFM delays ITP using ADS-B 								
OPFL SNET	I. ITP using ADS-B Short Term Conflict Alert implementation (STCA)	<u> </u>			V				
SIVEL	Short Term Conflict Alert Implementation (STCA) Area Proximity Warning (APW)						√		
	 Area Hoxinity wanning (Arw) Minimum Safe Altitude Warning (MSAW) 	—					√		
	4. Medium Term Conflict Alert (MTCA)						v √		
	Performance Improvement Area 4: Efficie	ent Flig	ht Path	s					
ССО	1. Procedure changes to facilitate CCO								1
	2. Airspace changes to facilitate CCO								1
	3. PBN SIDs								1
CDO	1. Procedure changes to facilitate CDO								1
	2. Airspace changes to facilitate CDO								1
	3. PBN STARs								1
ТВО	1. ADS-C over oceanic and remote areas								
	2. CPDLC over continental areas				√				
	3. CPDLC over oceanic and remote areas	L							
L	3. SATVOICE direct controller-pilot communication (DCPC)								

Table 2.1.2 ASBU B0 Implementation Status Summary

2.2 ASBU Block 1 Implementation Targets and Status

This section will be written after 2019. Appendix E is reserved for ASBU B1 ANRFs.

2.3 ASBU Block 2 Implementation Targets and Status

This section will be written after 2025. Appendix F is reserved for ASBU B2 ANRFs.

2.4 ASBU Block 3 Implementation Targets and Status

This section will be written after 2031. Appendix G is reserved for ASBU B3 ANRFs.

3. ICAO NACC Regional Aviation System Improvements (RASI) Status

The RPBANIP is aligned with GANP and provides guidance to States in the NACC region. The ICAO NACC RO also provides guidance to implement certain capabilities outside the ASBU scope, yet regionally important improvements. Currently 4 aerodrome associated NACC region specific improvements are identified and shown below. RASI ANRF for ICAO NACC Regional Initiatives is prepared and provided in Appendix H.

- Aerodrome certification Status: Developing (MHLM)
- Heliport operational approval Status: Implemented
- Visual aids for navigation Status: Not Implemented
- Aerodrome Bird/Wildlife Organization and Control Programme Status: Developing

4. Honduras/AHAC's State Aviation System Improvements (SASI) Status

Honduras/AHAC State Aviation System Improvements (SASI) are broken into three categories; (1) Equipment upgrades; (2) Procedure upgrades; and (3) Infrastructure upgrades. The details of upgrades were recorded using SASI ANRFs and provided in Appendix I.

4.1 Equipment Upgrades

Equipment upgrades are not identified at this time.

4.2 Procedure Upgrades

Procedure upgrades are not identified at this time.

4.3 Infrastructure Upgrades

There are three infrastructure upgrades, shown below, which have been identified to address anticipated airport and airspace demand growth. SASI ANRF for Infrastructure Upgrades is prepared and provided in Appendix I.

- Airport Terminal Development Status: Planning
- Airport Rwy Rehabilitation and extension Status: Analysis in Progress
- Control Tower and Technical Building upgrade Status: Planning

5. Honduras/AHAC State ANP Next Review Schedule

The next review and revision of this document is scheduled in September 2018.

Appendix A: ANRF Explained

	Appendia in the Expansed
An ASBU ANRF shou	ld be completed for each applicable ASBU Module as follows:
PIA	The Performance Improvement Area (1, 2, 3 or 4) for the ASBU Module, as per the <i>NAM ASBU Handbook</i> .
Block - Module	The Module Designation for the ASBU Module, as per the <i>NAM ASBU Handbook</i> .
Date	The date when the form was completed or updated.
Module Description	The Summary Description for the ASBU Module, as per the <i>NAM ASBU Handbook</i> .
Element	The descriptive text for each Element, as per the <i>NAM ASBU Handbook</i> . It is not necessary to include the Defined, Derived from or Identified By information. Insert additional rows, if necessary, to accommodate all of the Elements listed for the ASBU Module.
Date Planned or Impl	emented The month and year when the Element was fully implemented or the year when it is planned for the Element to be fully implemented by all applicable States or at all applicable aerodromes. This field should be left blank if the Status for the Element is "Analysis Not Started" or "Not Applicable" for all States or aerodromes in the Region.
Status	The Need Analysis or Implementation status for the Element, in accordance with Table NAM ASBU III-1, III-2, III-3 or III-4. Indicate the status as follows:
	Not Started: if the Need Analysis has not been started for any of the States or aerodromes
	In Progress: if at least one Need Analysis has been started but none have yet been completed
	Need: if at least on Need Analysis has determined a requirement for the Element, but no implementation planning has yet been initiated
	Not Applicable: 1) if all of the Need Analyses completed to date have concluded the Element is not required, or 2) if the Element is not an aerodrome-related improvement and the Region has not adopted the improvement for region-wide implementation.
	Planning: if at least one implementation is in the Planning phase and no implementations have yet been completed.
	Developing: if at least one implementation is in the Developing phase but no implementations have yet been completed.
	Partially Implemented: if at least one, but not all, implementations have been completed.
	Implemented: if all of Needed implementations have been completed.
Status Details	Further information to support or explain the reported status. The reason(s) an Element was found to be "Not Applicable" for all the aerodromes (or States) in the Region. The reason(s) why the Need Analysis has not been completed for all or some of the aerodromes (or States) in the Region. Information on where implementation has or has not been completed (as appropriate) if the reported status is "Partially Implemented".

Achieved Benefits Describe the achieved benefits for the entire Module or particular Elements. The benefits can be quantitative or qualitative. The benefits should be described for the following 5 of the 11 Key Performance Areas (KPAs) defined the *Manual on Global Performance of the Air Navigation System* (Doc 9883):

Access & Equity: Improving the operating environment so as to ensure all airspace users have the right of access to ATM resources needed to meet their specific operational requirements; and ensuring that the shared use of the airspace for different airspace users can be achieved safely. Providing equity for all airspace users that have access to a given airspace or service. Generally, the first aircraft ready to use the ATM resources will receive priority, except where significant overall safety or system operational efficiency would accrue or national defence considerations or interests dictate by providing priority on a different basis.

Capacity: Improving the ability to meet airspace user demand at peak times and locations while minimizing restrictions on traffic flow. Responding to future growth by increasing capacity, efficiency, flexibility, and predictability while ensuring that there are no adverse impacts to safety and giving due consideration to the environment. Increasing resiliency to service disruption and minimising resulting temporary loss of capacity.

Efficiency: Improving the operational and economic cost effectiveness of gateto-gate flight operations from the airspace users' perspective. Increasing the ability for airspace users to depart and arrive at the times they select and fly the trajectory they determine to be optimum in all phases of flight.

Environment: Contributing to the protection of the environment by minimizing or reducing noise, gaseous emissions, and other negative environmental effects in the implementation and operation of the air navigation system.

Safety: Reducing the likelihood or severity of operational safety risks associated with the provision or use of air navigation services.

Implementation Challenges A description of any circumstances that have been encountered or are foreseen that might prevent or delay implementation. Challenges should be categorized and described under the applicable subject area.

Any further information as deemed appropriate.

Notes

			Hondu	ıras ASBU Air Naviga	ation Reporti	ing Fo	rm (ANRF)	
PIA	L	<mark>4</mark>	Block - Module	B0 - CDO		Date	August 08, 2018	
opti pro	imu files	im profi s, and ii	ile using continuous ncrease capacity in te		is will optimiz	ze thro	lures allowing an aircraft bughput, allow fuel efficie ances CDO.	
			lementation Status					
1			Description:				Planned/Implemented	Status
			e changes to facilitate	e CDO		Implen	nent in Aug 2008	Implemented
		atus Do escribe						
2	El	lement	Description			Date]	Planned/Implemented	Status
	Ro	oute cha	anges to facilitate CI	00		Implen	nent in Aug 2008	Implemented
	St	atus D	etails					
	De	escribe	status.					
3	El	lement	Description			Date 1	Planned/Implemented	Status
	PE	BN STA	ARs			Implen	nent in Aug 2008	Implemented
	St	atus D	etails					
	De	escribe	status.					
Acł	niev	ved Ber	nefits					
Acc	ess	and Eq	quity					
Ele	me	nt 1: D	Describe if you can, e	<mark>lse leave it blank.</mark>				
Ele	me	nt 3: D	Describe if you can, e	<mark>lse leave it blank.</mark>				
Cap	oaci	ity						
Effi	cier	ncy						
Env	viro	nment						
Safe	ety							
Imj	pler	nentati	ion Challenges					
Gra	ound	d systen	n Implementation					
Avi	onie	cs Imple	ementation					
Pro	ced	lures A	vailability					
Ope	erat	tional A	pprovals					
Not	es							
Pro	vide	e notes	if applicable.					

Appendix B: ASBU ANRF Template

Appendix C: RASI and SASI ANRF Templates

RASI and SASI ANRF templates are the same with ASBU ANRF template with exception of the header as shown in this Appendix. The first header is for the ICAO NACC Regional Office specific improvements while the second header is for the State specific improvements.

Section C.1: Regional Aviation System Improvements (RASI) ANRF Header

Enter appropriate State Name and Date. Describe the Module (i.e., improvement group description.)

Honduras RASI Air Navigation Reporting Form (ANRF)									
ICAO NACC Regional Initiatives Date September 1, 2017									
Module Description: ICAO NACC RO has identified airport improvements.									
D.C ACDU ANDE C	(;		D 64 .						
e	(i.e., Element Imple	nentation Status, Achieved I	Benefits,						
Refer to the ASBU ANRF for the remaining sections (Implementation Challenges, and Notes)	(i.e., Element Imple	nentation Status, Achieved H	Benefits,						

Section C.2: State Aviation System Improvements (RASI) ANRF Header

Enter appropriate State Name, Upgrades category (i.e., Equipment, Procedure, Infrastructure, etc.), Date. Describe the Module (i.e., Upgrades category description.)

Honduras SASI Air Navigation Reporting Form (ANRF)								
Infrastructure Upgrades	Date	September 1, 2017						
Module Description: Describe module.								
Refer to the ASBU ANRF for the remaining sections (i.e., Elem Implementation Challenges, and Notes)	ent Implen	nentation Status, Achieved Benefits,						

Appendix D: Honduras/AHAC ASBU Block 0 ANRFs

DT 4	1		as] ASBU Air Navigation Ro						
PIA	A 1	Block -	B0 - ACDM	Date	August 08, 2018				
		Module	1 / 11 1 /· 1· /·			<u> </u>			
		-	lement collaborative applicati			-			
			erent stakeholders on the airpo						
			on movement and manoeuvring	g areas a	and enhance safety, e	fficiency and			
	ational awar								
-	ement Implementation Status Element Description: Date								
1		-			1/1 1 4 1	Status			
			ircraft operator and ANSP		ed/Implemented	N/A			
-			perations information	Date 1	N/A				
	Status Deta								
-	Enter status					<u> </u>			
2	Element De	-	· · · · · · ·	Date		Status			
			ircraft operator and airport		ed/Implemented	N/A			
			surface operations	Date 1	N/A				
-	information								
	Status Details Enter status details								
2						G4 4			
3	Element De	=		Date		Status			
	Interconnection between airport operator and ANSP				ed/Implemented	N/A			
-	systems to share surface operations information Date N/A								
	Status Deta								
4	Enter status			Date		64-4			
4	Element De	=	im ant an anotan ain an A		ad/Immlanaantad	Status			
			irport operator, aircraft	Date 1	ed/Implemented	N/A			
	information	-	ns to share surface operations	Date	N/A				
-									
	Status Deta Enter status								
5	Element D			Date		Status			
5		-	ieue management		ed/Implemented	Planning			
	Collaborati	ve departure qu	ieue management		-	rianning			
-	Implement by Dec 2019 Status Details								
	Enter status								
Aal	hieved Bene								
	ess and Equ	шу							
1	pacity iciency								

Safety
Implementation Challenges
Ground system Implementation
Avionics Implementation
Procedures Availability
Operational Approvals
Notes

		Honduras .	ASBU Air Navigation Re	porting	Form (ANRF)	
PIA	1	Block -	B0 - APTA	Date	August 08, 2018	
		Module				
syst app app sate	em (GBAS) roaches to ru lication of ba llite-based a	landing system (C unways, thus incre asic global naviga	Performance-based Navig GLS) procedures will enha asing safety, accessibility tion satellite system (GNS em (SBAS) and GLS. The ay capacity.	nce the r and effic S), Baro	eliability and predicta iency. This is possible -vertical navigation (V	bility of e through the VNAV),
Ele	ment Imple	mentation Status				
1	Element D	escription:		Date		Status
	PBN approa	*	th vertical guidance to		ed/Implemented mented in Aug 2008	Implemented
Ē	Status Deta	ails				
	GNSS proce	edure implemente	d.			
2	Element Do	escription:		Date		Status
	PBN approa	ach procedures wi	th vertical guidance to	Plann	ed/Implemented	N/A
	LPV minim	a		Date N	N/A	
Γ	Status Deta	ails		-		
	N/A					
3	Element D	escription:		Date		Status
	PBN approa	ach procedures wi	thout vertical guidance to	Plann	ed/Implemented	Implemented
	LNAV mini	ima		Imple	mented in Aug 2008	
	Status Deta	ails				
		edure implemente	d.			1
4	Element Do	-		Date		Status
	GBAS Land	ding System (GLS) procedures to CAT I		ed/Implemented	N/A
	minima			Date N	N/A	
	Status Deta	ails				
	N/A					
Acł	nieved Bene	fits				
Acc	ess and Equ	ity				
Cap	pacity					
Effi	ciency					
Env	ironment					
Safe	ety					
Imp	olementatio	n Challenges				
Gro	und system	Implementation				
Avie	onics Implen	nentation				
Pro	cedures Ava	ilability				
Оре	erational App	provals				
Not	es					

			Hondura	s ASBU Air Navigation F	Reporting	Form (ANRF)		
PI	ł	1	Block -	B0 - RSEQ	Date	August 08, 2018		
			Module					
Mo	du	le Descrip	otion: To mana	ge arrivals and departures	(including	time-based metering	g) to and from a	
mu	lti-1	runway ae	rodrome or loca	ations with multiple depend	lent runwa	sys at closely proxim	ate aerodromes,	
to e	effic	ciently util	lize the inherent	t runway capacity.				
Ele	me	ent Implei	nentation Stat	us				
1			escription:		Date		Status	
	A	MAN via	controlled time	of arrival to a reference fix	Plann	ed/Implemented	N/A	
					Date 1	N/A		
		tatus Deta	ils					
		/A						
2			escription:		Date		Status	
	De	eparture m	nanagement			ed/Implemented	Need	
-					N/A			
	~ -	tatus Deta						
_		nter status						
3			escription:			DateStatus		
	Departure flow management				Planned/Implemented N/A			
-	<u> </u>				Date 1	N/A		
		tatus Deta	ils					
		/A	•				<u><u>G</u>()</u>	
4			escription:		Date		Status	
	PC	oint merge			Date 1	ed/Implemented	N/A	
ŀ	64	tatus Deta	ปล		Date	N/A		
		A	.115					
Ac		ved Benef	ite					
		s and Equi						
Cap			iy					
		ency						
		onment						
Saf								
U	2		n Challenges					
	-		mplementation					
		ics Implem						
		dures Avai						
		tional App	2					
Not								
110								

		Honduras	ASBU Air Navigation	Reporting	Form (ANRF)		
PIA	. 1	Block -	B0 - SURF	Date	August 08, 2018		
		Module					
SM thus Aut Enh	GCS) provid improving omatic depe anced visior	les surveillance an runway/aerodrom ndent surveillance	e-broadcast (ADS-B) in s used for low-visibility	ts of both a	ircraft and vehicles a	t the aerodrome,	
	-		,	Date		Status	
	Element Description: A-SMGCS with at least one cooperative surface surveillance system				ned/Implemented N/A	N/A	
	Status Deta N/A	ails					
2	Element D ADS-B AP	-		Date Plann Date 1	ned/Implemented	Status N/A	
	Status Deta N/A	ails					
3	Element Description:			Date		Status	
	A-SMGCS alerting with flight identification information			Plann Date 1	ned/Implemented N/A	N/A	
	Status Deta N/A	ails					
4	Element Description: EVS for taxi operations			Date Plann Date 1	ned/Implemented N/A	Status N/A	
	Status Details N/A						
5	Element De Airport veh	escription: icles equipped wi	th transponders	Date Plann Date 1	ned/Implemented	Status N/A	
	Status Deta N/A	ails					
Ach	ieved Bene	fits					
	ess and Equ	ity					
	acity						
	ciency						
	ironment						
Safe I	-	challes as					
		n Challenges					
	und system i onics Implen	Implementation					
avia	mics impien	neniuii0n					

Procedures Availability					
Operational Approvals					
Notes					

		Hondura	s ASBU Air Navigation Re	porting	Form (ANRF)		
PIA	. 1	Block -	B0 - WAKE	Date	August 08, 2018		
		Module					
turb	ulence separ	ation minima, re	d throughput on departure an evised aircraft wake turbulen				
	ement Implementation Status						
	New PANS-ATM wake turbulence categories and		Date Planned/Implemented Date N/A		Status N/A		
	N/A	1115					
2	Element De Dependent of parallel runy	liagonal paired	approach procedures for elines spaced less than 760	Date Plann Date N	ed/Implemented N/A	Status N/A	
	Status Details N/A						
	Element Description: Wake independent departure and arrival operations (WIDAO) for parallel runways with centrelines spaced less than 760 meters (2,500 feet) apart			Date Plann Date N	ed/Implemented N/A	Status N/A	
	Status Details N/A						
4	Element De Wake turbul procedures f	lence mitigation for parallel runw 0 meters (2,500	for departures (WTMD) yays with centrelines spaced feet) apart based on	Date Plann Date N	ed/Implemented N/A	Status N/A	
	Status Details						
5	N/A Element Description:			Date		Status	
	6 wake turb	ulence categorie	s and separation minima	PlannDate N	ed/Implemented N/A	N/A	
	Status Details N/A						
Ach	ieved Benef	its					
Acc	ess and Equi	ity					
Cap	acity						
Effic	ciency						
Env	ironment						
Safe	ety						
Imp	lementation	n Challenges					
Gro	und system l	Implementation					
	-						

Avionics Implementation
Procedures Availability
Operational Approvals
Notes

	Honduras ASBU Air Navigation Reporting Form (ANRF)						
PIA	1	Block -	B0 - AMET	Date	August 08, 2018		
		Module					
a) b) c) This	forecasts pr and tropica aerodrome affect all ai SIGMETs to phenomena (OPMET) is observation aerodrome. information	rovided by world a l cyclone advisory warnings to give o rcraft at an aerodr to provide informa which may affect information, inclu- as and forecasts of n supports flexible	gional and local meteorol area forecast centres (WA centres (TCAC); concise information of m rome including wind shea ation on occurrence or ex t the safety of aircraft op ding METAR/SPECI and meteorological condition e airspace management, i d dynamically optimized	AFC), volc eteorologi ur; and pected occ erations ar d TAF, to j ns occurrin	anic ash advisory cen cal conditions that con currence of specific er ad other operational m provide routine and sp ng or expected to occu ituational awareness a	uld adversely nroute weather neteorological pecial ur at the	
		-	hich should be viewed as			ological	
			pport enhanced operation			ological	
		mentation Status			icy and sately.		
	Element De			Date		Status	
	WAFS			Plann	ed/Implemented mented in Jan 2000	Implemented	
	Status Deta	nils					
	Element Do IAVW				ed/Implemented mented in Jan 2000	Status Implemented	
	Status Deta						
	Element De TCAC foree	-			ed/Implemented nented in Jan 2000	Status Implemented	
	Status Deta	nils		•		•	
	Element De Aerodrome	-		Date Plann N/A	ed/Implemented	Status Need	
	Status Details						
	Element De	-		Date		Status	
	Wind shear	warnings and aler	ts	Plann N/A	ed/Implemented	Need	
	Status Details						
	Element De SIGMET	escription:			ed/Implemented mented in Jan 2000	Status Implemented	

	Status Details		
7	Element Description:	Date	Status
	Other OPMET information (METAR, SPECI and/or	Planned/Implemented	Implemented
	TAF)	Implemented in Jan 2000	
	Status Details		
8	Element Description:	Date	Status
	QMS for MET	Planned/Implemented N/A	Need
	Status Details	11/24	
Ac	hieved Benefits		
Ac	cess and Equity		
Ca	pacity		
Eff	ficiency		
En	vironment		
Sa	fety		
Im	plementation Challenges		
Gr	ound system Implementation		
Av	ionics Implementation		
Pr	ocedures Availability		
0p	perational Approvals		
No	ites		

		Honduras A	ASBU Air Navigation R	eporting	Form (ANRF)	
PIA	2	Block -	B0 - DATM	Date	August 08, 2018	
		Module				
fror mar aero	n origination nagement (A onautical info	to publication, th IM) implementation prmation publication	introduction of digital pro rough aeronautical inform on, use of aeronautical ex on (AIP) and better qualit	nation ser change m	vice (AIS)/aeronautic nodel (AIXM), migrat	al information
	_	mentation Status				
1	Model (AIX	d Aeronautical Inf (M)	formation Exchange		ed/Implemented date if applicable	Status Implemented
	Status Deta Enter status					
2	Element De			Date		Status
	eAIP	F		Plann	ed/Implemented date if applicable	Implemented
	Status Deta Enter status					
3	Element De			Date		Status
C	Digital NOT	-			ed/Implemented	Need
-	Status Deta Enter status					
4	Element De	escription:		Date		Status
	eTOD				ed/Implemented date if applicable	Developing
-	Status Deta Enter status			1		
5	Element De	escription: WGS	-84		ed/Implemented mented in Jan 1993	Status Implemented
	Status Deta Enter status					
6	Element De	escription:		Date		Status
	QMS for Al	IM		Plann N/A	ed/Implemented	Need
	Status Deta Enter status	details				
	nieved Benef					
	nieved Benef					
Acc	ess and Equi	ity				

Capacity	
Efficiency	
Environment	
Safety	
Implementation Challenges	
Ground system Implementation	
Avionics Implementation	
Procedures Availability	
Notes	

		Honduras	ASBU Air Navigation R	eporting	Form (ANRF)	
PIA	2	Block -	B0 - FICE	Date	August 08, 2018	
		Module				
inte App	rfacility data plications (D	a communication (e coordination between a (AIDC) defined by ICAO itional benefit is the impro- ironment.	's Manua	l of Air Traffic Servi	ces Data Link
Ele	ment Imple	mentation Status				
1	Element Description:		Date		Status	
	AIDC to pr	ovide initial flight	data to adjacent ATSUs		ed/Implemented date if applicable	Developing
Γ	Status Deta	ails		·		·
	Enter status	details				
2	Element D	escription:		Date		Status
	AIDC to up	date previously co	oordinated flight data		ed/Implemented date if applicable	Developing
Ī	Status Deta	ails		I		
	Enter status	details				
3	Element D	escription:		Date		Status
	AIDC for c	ontrol transfer			ed/Implemented date if applicable	Developing
Ī	Status Deta	ails				- 1
	Enter status	details				
4	Element D	escription:		Date		Status
	AIDC to tra	ansfer CPDLC log	on information to the	Plann	ed/Implemented	Developing
	Next Data A	Authority		Enter	date if applicable	
Γ	Status Deta	ails				
	Enter status	details				
Acl	nieved Bene	fits				
Acc	ess and Equ	ity				
Cap	pacity					
Effi	ciency					
Env	ironment					
Safe	ety					
		n Challenges				
Gre	ound system	Implementation				
Avi	onics Implen	nentation				
Pro	cedures Ava	vilability				
Ope	erational Ap	provals				
~ r ·						

ems (ACAS) ctory deviati nent Impler Element De	to reduce nuisations and increase nentation State scription: CAS version 7.		aining existing e there is a bre Date	g levels of safety. Th akdown of separation	is will reduce
ems (ACAS) ctory deviati nent Impler Element De ACAS II (To Status Deta	otion: To provi to reduce nuisations and increase nentation State scription: CAS version 7.	ance alerts while main as safety in cases wher as	aining existing e there is a bre Date	g levels of safety. Th akdown of separation	is will reduce n.
ems (ACAS) ctory deviati nent Impler Element De ACAS II (To Status Deta	to reduce nuisations and increase nentation State scription: CAS version 7.	ance alerts while main as safety in cases wher as	aining existing e there is a bre Date	g levels of safety. Th akdown of separation	is will reduce n.
ctory deviati nent Impler Element De ACAS II (To Status Deta	ions and increas nentation Statu scription: CAS version 7.	e safety in cases wher 15	e there is a bre Date	akdown of separation	n.
nent Impler Element De ACAS II (To Status Deta	nentation State scription: CAS version 7.	15	Date	^	
Element De ACAS II (To Status Deta	scription: CAS version 7.				Status
ACAS II (To Status Deta	CAS version 7.	1)			Status
Status Deta		1)	Plann		
	ils			ed/Implemented	N/A
	ils		Date 1	N/A	
N/A					
	-				Status
AP/FD function			-		N/A
C4 - 4 D - 4 -	•1		Date	N/A	
	lis				
	conintion		Data		Status
-				od/Implemented	N/A
	1011			-	11/7
Status Deta	ils		Dute	() 1 1	
N/A					
	its				
-	<u> </u>				
iency					
ronment					
ty					
	Challenges				
und system I	mplementation				
nics Implem	entation				
edures Avai	lability				
rational App	provals				
es					
	AP/FD func Status Deta V/A Element De TCAP funct Status Deta N/A eved Benef ss and Equi acity iency ronment y ementation ind system I nics Implem edures Avai sational App	Element Description: TCAP function Status Details N/A eved Benefits ss and Equity acity iency ronment y ementation Challenges and system Implementation nics Implementation edures Availability rational Approvals	AP/FD function Status Details N/A Element Description: TCAP function Status Details N/A eved Benefits ss and Equity acity iency ronment y lementation Challenges and system Implementation nics Implementation edures Availability rational Approvals	AP/FD function Plann Date N Status Details N/A Date Plann Date N Element Description: Date Plann Date N FCAP function Plann Date N Status Details N/A Plann Date N eved Benefits ss and Equity ucity iency Image: Status Details N/A w/A Image: Status Details N/A eved Benefits ss and Equity ucity iency Image: Status Details N/A Image: Status Details N/A Image: Status Details N/A Image: Status Details ency Image: Status Details N/A Image: Status Details N/A Image: Status Details N/A Image: Status Details status Details N/A Image: Status Details N/A Image: Status Details N/A Image: Status Details N/A Image: Status Details Image: Status Details Image	AP/FD function Planned/Implemented Date N/A Status Details N/A Element Description: Date Planned/Implemented Date N/A Status Details N/A eved Benefits ss and Equity to:

		[STATE]	ASBU Air Navigation	Reporting	Form (ANRF)	
PIA	3	Block -	B0 - ASEP	Date	Month XX, 2017	
		Module				
		-	raffic situational awaren	· · · ·	11	
	•		ng pilots with the means	to enhance t	raffic situational awa	areness and
		cker visual acquisition	U			
			nal awareness during flig	ght operation	ns).	
,		ual separation on ap				
		plementation Statu	15			
1		t Description:		Date		Status
	ATSA-AIRB				ed/Implemented	N/A
-	64.4			Date N	N/A	
	Status I N/A	Details				
2		t Description:		Date		Status
2	ATSA-	-			ed/Implemented	N/A
	AISA-	VSA		Date 1	-	1N/A
F	Status 1	Details		Dute	V/11	
	N/A	betuns				
Ac	nieved B	enefits				
	ess and					
	pacity	1				
	ciency					
00	vironmen	t				
Saf	ety					
Im	plement	ation Challenges				
Gra	ound syst	em Implementation				
Avi	onics Im	plementation				
Pro	cedures	Availability				
Ope	erational	Approvals				
Not	tes					

		Honduras	ASBU Air Navigati	on Reporting	Form (ANRF)	
PIA	A 3	Block -	B0 - ASUR	Date	August 08, 2018	
		Module				
Mo	dule Descri	ption: To provid	e initial capability for	r lower cost gr	ound surveillance sup	ported by new
tecl	nnologies su	ch as ADS-B OU	T and wide area mult	ilateration (MI	LAT) systems. This c	apability will be
exp	ressed in va	rious ATM servic	es, e.g. traffic inform	ation, search a	nd rescue and separat	tion provision.
Ele	ment Imple	mentation Statu	S			
1	Element D	escription:		Date		Status
	ADS-B			Plann	ed/Implemented	Planning
				Imple	ment by May 2019	
	Status Deta					
	Enter status	s details				
2	Element D	escription:		Date		Status
	MLAT				ed/Implemented	N/A
				Date 1	N/A	
	Status Deta	ails				
	N/A					
-	hieved Bene					
	ess and Equ	ity				
-	pacity					
Effi	iciency					
Env	vironment					
Saf	ety					
Im	plementatio	n Challenges				
Gre	ound system	Implementation				
Avi	onics Impler	nentation				
Pro	ocedures Ava	uilability				
Ope	erational Ap	provals				
Not	tes					

		Honduras	ASBU Air Navigation Re	porting	Form (ANRF)	
PIA	3	Block -	B0 - FRTO	Date	August 08, 2018	
		Module				
airs pos flig	pace) alor sibilities, 1 ht lengths	g with flexible rout educing potential c and fuel burn.	the use of airspace which w ing adjusted for specific tra ongestion on trunk routes a	ffic patt	erns. This will allow	greater routing
		lementation Statu	S	1		
1		Description:		Date		Status
	CDM inc	orporated into airsp	ace planning	Plann N/A	ed/Implemented	Need
	Status D	etails				
	Enter stat			•		
2		Description:		Date		Status
	Flexible	Use of Airspace (FU	JA)	Plann Date N	ed/Implemented N/A	N/A
	Status D N/A	etails				- -
3	Element	Description:		Date		Status
	Flexible 1	outing			ed/Implemented date if applicable	Developing
	Status D	e tails us details.				
4		Description:		Date		Status
-		-	receive re-route clearances	Plann	ed/Implemented date if applicable	Developing
ŀ	Status D	etails				
	Enter stat					
Acł	nieved Be	nefits				
Acc	ess and E	quity				
Cap	pacity					
Effi	ciency					
Env	ironment					
Safe	ety					
Imj	olementat	ion Challenges				
Gre	ound system	n Implementation				
Avi	onics Impl	ementation				
Pro	cedures A	vailability			_	
Ope	erational A	<i>pprovals</i>				
	es					

		Hondu	ras ASBU Air Navigatio	on Reporting	Form (ANRF)	
PIA	3	Block -	B0 - NOPS	Date	August 08, 2018	
		Module				
Mo	dule D	escription: Air tra	ffic flow management (A	TFM) is used	to manage the flow	of traffic in a
way	that m	inimizes delays and	d maximizes the use of th	e entire airspa	ace. Collaborative A	TFM can
-			g departure slots, smooth			-
	-	-	ival time at waypoints or	-		
			aturated areas. ATFM ma	5	l to address system d	isruptions
	•		uman or natural phenome	na.		
		nplementation Sta	atus			-
1		nt Description:		Date		Status
	Sharin	g prediction of traf	fic load for next day		ed/Implemented	Developing
-				Enter	date if applicable	
		Details				
•		tatus details				
2		nt Description:		Date		Status
	_	-	tings to avoid or minimized	e Plann Date l	ed/Implemented	N/A
-		delays Details		Date	N/A	
	Status N/A	Details				
Aal		Benefits				
		Equity				
	acity	Lquity				
-	ciency					
	vironme	nt				
Safe						
v		tation Challenges				
		stem Implementatio	n			
		<i>iplementation</i>				
		Availability				
		l Approvals				
	es					

		Hondura	s ASBU Air Navigati	on Reporting	Form (ANRF)	
PIA	3	Block -	B0 - OPFL	Date	August 08, 2018	
		Module				
Mo	dule Des	cription: To enabl	e aircraft to reach a me	ore satisfactory	y flight level for fligh	nt efficiency or to
avo	id turbul	ence for safety. The	main benefit of ITP is	s fuel/emission	s savings and the upl	lift of greater
pay	loads.					
Ele	ment Im	plementation Stat	us			
1	Elemen	t Description:		Date		Status
	ITP usir	ig ADS-B		Plann	ed/Implemented	N/A
				Date 1	N/A	
	Status I	Details				
	N/A					
Acl	nieved B	enefits				
Acc	ess and I	Equity				
Cap	pacity					
Effi	ciency					
Env	rironmen	t				
Saf	ety					
Im	olementa	tion Challenges				
Gre	ound syste	em Implementation				
Avi	onics Imp	olementation				
Pro	cedures A	Availability				
Ope	erational	Approvals				
Not	es					

		Honduras	ASBU Air Navigation	n Reporting	Form (ANRF)	
PIA	3	Block -	B0 - SNET	Date	August 08, 2018	
		Module				
con war mał hun	trollers of p nings (APW te an essention nan centred.	otential risks to fl) and minimum s ial contribution to	e monitoring of flights wight safety. Alerts from safe altitude warnings (1) safety and remain requires	n short-term c MSAW) are	conflict alert (STCA) proposed. Ground-ba	, area proximity used safety nets
1	=	escription:	5	Date		Status
1		Conflict Alert (S	STCA)	Plann	ed/Implemented ment by Apr 2019	Developing
Ī	Status Det	ails				
	Enter status	s details				
2		escription: mity Warning (A	PW)		ed/Implemented ment by Apr 2019	Status Developing
Ī	Status Det	ails		ł		
	Enter status	s details				
3	Element D	escription:		Date		Status
	Minimum S	Safe Altitude Wa	rning (MSAW)		ed/Implemented ment by Apr 2019	Developing
Ī	Status Det	ails		ł		
	Enter status	s details.				
4	Element D	escription:		Date Status		
	Medium Te	erm Conflict Aler	t (MTCA)		ed/Implemented ment by Apr 2019	Developing
Ī	Status Det	ails		ł		
	Enter status	s details				
Acl	nieved Bene	fits				
Acc	ess and Equ	uity				
	pacity 1	-				
Effi	ciency					
	vironment					
Safe	ety					
0	5	n Challenges				
		Implementation				
	onics Impler					
	cedures Ava					
	erational Ap	•				
~ r ·		r · · · · · · · · · · · · · · · · · · ·				

		Hondura	as ASBU Air Navigati	on Reporting	Form (ANRF)	
PIA	4	Block -	B0 - CCO	Date	August 08, 2018	
		Module				
Mo	dule Descr	iption: To impl	ement continuous clim	b operations in	conjunction with pe	erformance-based
	•	/ 1	portunities to optimize	• • •		
		* ·	rease capacity at conge	ested terminal a	areas. The application	n of PBN
	ances CCO					
	-	ementation Stat	us			a
1		Description:		Date		Status
	Procedure	changes to facili	tate CCO		ed/Implemented date if applicable	Implemented
	Status De	tails		•		
	Enter statu	<mark>is details</mark> .				
2	Element I	Description:		Date		Status
	Airspace changes to facilitate CCO				ed/Implemented	Implemented
				Enter	date if applicable	
	Status De					
	Enter statu			1		
3	Element Description:			Date		Status
	PBN SIDs			ed/Implemented	Implemented	
				Enter	date if applicable	
	Status De					
	Enter statu					
	ieved Ben					
	ess and Eq	uity				
-	pacity					
00	ciency					
	ironment					
Safe	-					
_		on Challenges				
		Implementation				
	onics Imple					
	cedures Av					
	erational A _l	oprovais				
Not	es					

		Hondura	s ASBU Air Navigat	ion Reporting	Form (ANRF)	
PIA	4	Block -	B0 - CDO	Date	August 08, 2018	
		Module				
Mo	dule Des	scription: To use po	erformance-based airs	space and arriva	al procedures allowin	g an aircraft to
fly	its optim	um profile using con	ntinuous descent oper	ations. This will	ll optimize throughpu	it, allow fuel
effi	cient des	cent profiles, and in	crease capacity in terr	minal areas. Th	e application of PBN	enhances CDO.
Ele	ment Im	plementation Statu	18			
1		t Description:		Date		Status
	Procedu	re changes to facilit	ate CDO		ed/Implemented	Implemented
				Enter	date if applicable	
ŀ	Status I					
		atus details				
2		t Description:		Date		Status
	Airspac	e changes to facilitat	te CDO		ed/Implemented	Implemented
				Enter	date if applicable	
ľ	Status I					
		atus details				Γ
3		t Description:		Date		Status
	PBN ST	`ARs			ed/Implemented	Implemented
				Enter	date if applicable	
F	Status I	Details				
	Enter st	atus details				
Ac	hieved B	enefits				
Acc	ess and h	Equity				
Cap	pacity					
Effi	iciency					
Env	vironmen	t				
Saf	ety					
Im	plementa	ation Challenges				
Gra	ound syst	em Implementation				
Avi	onics Im	olementation				
Pro	ocedures	Availability				
Ope	erational	Approvals				

		Hondura	s ASBU Air Navigation	Reporting	Form (ANRF)		
PIA	4	Block -	B0 - TBO	Date	August 08, 2018		
		Module					
com impi	munications roved safety	in air traffic se	ment a set of data link ap rvices, which will lead to				
	-	mentation State	18				
	Element De ADS-C ove	escription: r oceanic and re	mote areas	Date Plann Date 1	ed/Implemented N/A	Status N/A	
	Status Deta N/A	ils		I		•	
2	Element De	escription:		Date		Status	
	CPDLC over continental areas			Plann Date 1	ed/Implemented N/A	N/A	
	Status Deta N/A	ils					
3	Element De	escription:		Date		Status	
	CPDLC over oceanic and remote areas			Plann Date 1	ed/Implemented N/A	N/A	
	Status Deta N/A	ils		I			
4	Element De	escription:		Date		Status	
	SATVOICE direct controller-pilot communication (DCPC)			Plann Date 1	ed/Implemented N/A	N/A	
	Status Details						
	N/A	•					
	ieved Benef						
	ess and Equi	ty					
	acity						
	ciency						
	ironment						
Safe		~					
-		n Challenges					
	-	Implementation					
	nics Implen						
	cedures Ava						
Ope.	rational App	provals					

Appendix E: Honduras/AHAC ASBU Block 1 ANRFs

Insert ASBU B1 ANRFs in the future.

Appendix F: Honduras/AHAC SBU Block 2 ANRFs

Insert ASBU B2 ANRFs in the future.

Appendix G: Honduras/AHAC ASBU Block 3 ANRFs

Insert ASBU B3 ANRFs in the future.

Appendix H: Honduras/AHAC RASI ANRFs

Replace with your RASI ANRF

	My Organization RASI Air Navigation 1	Reporting Form (ANRF)	
	AO NACC Regional Initiatives	Date September 1, 2017	
Mo	dule Description: ICAO NACC RO has identified airport imp	rovements.	
Ele	ment Implementation Status		
1	Element Description:	Date Planned/Implemented	Status
	Aerodrome certification	Dec 2019	Developing
	Status Details		
	ICAO NACC region has a goal to have CAR aerodromes in its	s regional ANP Table AOP I-1 be	certified. My
	Organization's two airports, TWOW and TBTF. They are bot	h in the process.	-
<mark>2</mark>	Element Description:	Date Planned/Implemented	Status
	Heliport operational approval	Sep 2017	Implemented
	Status Details		
	ICAO NACC region has a goal to have CAR heliports in its re	gional ANP Table AOP I-1 certif	fied. Currently
	in Saint Lucia, there is one approved heliport (servicing a hote	el resort), and each airport has a de	esignated
	landing area for helicopters. There is also a heliport in the nee	ed stage at a private hospital.	
<mark>3</mark>	Element Description:	Date Planned/Implemented	Status
	Visual aids for navigation	Sep 2017	Implemented
	Status Details		
	ICAO NACC region has a goal to have CAR airports in its AN	NP Table AOP I-1 compliant with	Annex 14
	requirements. This capability is implemented at both TWOW	and TBTF.	
<mark>4</mark>	Element Description:	Date Planned/Implemented	Status
_	Aerodrome Bird/Wildlife Organization and Control	Dec 2018	Developing
	Programme		
	Status Details		•
	ICAO NACC region has a goal to have CAR airports in its AN	NP Table AOP I-1 have an aerodr	ome
	bird/wildlife organization and control programme. Saint Luci		
Acl	nieved Benefits	* *	
Acc	ess and Equity		
Ele	ment 1 - Aerodrome certification: International operators may i	not be permitted to operate to aero	odromes that are
not	certified	· ·	
Ele	ment 2. Heliport operational approval: International operators r	may not be permitted to operate to	heliports that
are	not approved	· · · ·	-
Ele	ment 3. Visual aids for navigation: International operators may	not be permitted to operate to aer	rodromes that
are	not compliant with Annex 14		
Cap	pacity: No report		
Effi	ciency		
Ele	ment 3. Visual aids for navigation: Annex 14 compliant visual	aids for navigation assist flights	to more
effi	ciently complete ground movements		
Env	vironment: No report		
Saf	ety		
Ele	ment 1 - Aerodrome certification: Certification should be conti	ngent upon the airport complying	with applicable
IC/	O SARPs. Certification and the associated regulatory oversigh	t should increase the effectivenes	s of SSP and
<mark>SM</mark>	S processes to identify and correct safety issues at certified aero	odromes.	
	ment 2. Heliport operational approval: Certification should be		olying with
app	licable ICAO SARPs. Approval and the associated regulatory o	versight should increase the effect	tiveness of SSP
	SMS processes to identify and correct safety issues at approved		
	ment 3. Visual aids for navigation: Annex 14 compliant visual		crew confusion
	assist in avoiding runway incursions or other ground movemen		
	ment 4. Aerodrome Bird/Wildlife Organization and Control Pro		on and control
	gramme reduces the potential for aircraft to strike wildlife or in		
	plementation Challenges		

Ground system Implementation: No report: No report
Avionics Implementation: No report
Procedures Availability: No report
Operational Approvals: No report
Notes
Element 1: Airport Terminal Development will also address the airport terminal security issues.

Appendix I: Honduras/AHAC SASI ANRFs

Replace with your SASI ANRF.

	Saint Lucia SASI Air Navigation	Reporting	Form (ANRF)			
	rastructure Upgrades	Date	September 1, 2017			
the mai occ staf	dule Description: Development of major components of the growing Aviation Industry. This will improve capacity and neuvering of wide body Aircraft (example B777) at the turn upancy time and reduce surface wear and tear. New ATC string. Improving operational space is vital to meet the need to be the need to be a surface wear and the surface wear and the surface are surface wear and the surface are surface to be a surface are surface.	d safety in thuing bay. Su facility is reconstructions of increased	the in terminal and allow s ich maneuvering will redu puired to meet the demand traffic. The benefits of	eamless ace runway ds of increase		
	astructure upgrades will increase an overall traffic manage ment Implementation Status	ment efficiei	ncy and enhance safety.			
Ele	Element Description:	Doto	Planned/Implemented	Status		
1	Airport Terminal Development	TBD	r lanneu/impicinenteu	Planning		
	Status Details Current terminal building does not meeting the passenger airport terminal situation, the security and safety are likely	demands du				
2	Element Description: Airport Runway Rehabilitation and Extension		Planned/Implemented	<mark>Status</mark> Analysis in Progress		
	Status Details Certain areas of the runway require improvement. For example, it is highly important to be fully compliance with ICAO Aerodrome 4E.					
2	Element Description:	Data	DI			
3	Control Tower and Technical Building Upgrades Status Details Control Cab was originally designed to house one ATCO operating with three ATCOs per shift to meet the traffic d	per shift. H emands. In	addition, significantly mo	ore equipment		
	Control Tower and Technical Building Upgrades Status Details Control Cab was originally designed to house one ATCO operating with three ATCOs per shift to meet the traffic d was installed in the already crowded Control Cab. The ex- traffic will only make the work environment of the Control the ATC operation.	TBD per shift. H emands. In spected incre	owever, the Control Cab addition, significantly mo ase of workload due to the	Planning currently ore equipment the increased		
Acl	Control Tower and Technical Building Upgrades Status Details Control Cab was originally designed to house one ATCO operating with three ATCOs per shift to meet the traffic d was installed in the already crowded Control Cab. The ex- traffic will only make the work environment of the Control	TBD per shift. H emands. In spected incre	owever, the Control Cab addition, significantly mo ase of workload due to the	Planning currently ore equipment the increased		
Act Acc Cap Ele peri	Control Tower and Technical Building Upgrades Status Details Control Cab was originally designed to house one ATCO operating with three ATCOs per shift to meet the traffic d was installed in the already crowded Control Cab. The ex- traffic will only make the work environment of the Control the ATC operation. hieved Benefits	TBD per shift. H emands. In pected incre ol Cab worse	owever, the Control Cab addition, significantly mo ase of workload due to the and impact on safety and	Planning currently ore equipment in increased d efficiency of		
Acc Cap Ele peri Effi	Control Tower and Technical Building Upgrades Status Details Control Cab was originally designed to house one ATCO operating with three ATCOs per shift to meet the traffic d was installed in the already crowded Control Cab. The ex traffic will only make the work environment of the Contro the ATC operation. hieved Benefits cess and Equity pacity ment 1 - Airport Terminal Development: Increase the cap iods.	TBD per shift. H emands. In pected incre ol Cab worse	owever, the Control Cab addition, significantly mo ase of workload due to the and impact on safety and	Planning currently ore equipment in increased d efficiency of		
Acl Acc Ele perfi Effi Env Safd Ele Ele Grc	Control Tower and Technical Building Upgrades Status Details Control Cab was originally designed to house one ATCO operating with three ATCOs per shift to meet the traffic d was installed in the already crowded Control Cab. The ex traffic will only make the work environment of the Contro the ATC operation. hieved Benefits ress and Equity pacity ment 1 - Airport Terminal Development: Increase the cap iods. iciency Prironment Prironment Prironment Prironment Prironment Priron Tower and Technical Building Upgrades: plementation Challenges Prironment Prironme	acity to hance	owever, the Control Cab addition, significantly mo ase of workload due to th and impact on safety and alle passengers smoothly a tional safety of aircraft.	Planning currently ore equipment ie increased d efficiency of t the peak arriva		
Acl Acc Ele perr Effi Env Safa Ele Ele Imj Gra	Control Tower and Technical Building Upgrades Status Details Control Cab was originally designed to house one ATCO operating with three ATCOs per shift to meet the traffic d was installed in the already crowded Control Cab. The ex traffic will only make the work environment of the Control the ATC operation. hieved Benefits ress and Equity pacity ment 1 - Airport Terminal Development: Increase the cap iods. iciency vironment ety ment 2 - Airport Runway Rehabilitation and Extension: In ment 3 - Control Tower and Technical Building Upgrades: plementation Challenges	acity to hance	owever, the Control Cab addition, significantly mo ase of workload due to th and impact on safety and alle passengers smoothly a tional safety of aircraft.	Planning currently ore equipment ie increased d efficiency of t the peak arriva		

Notes Element 1 - Airport Terminal Development: Address the airport terminal security issues.

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