[Honduras] State Air Navigation Plan

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Table of Contents

1. Introduction	4
1.1 Background	4
1.2 Environment	4
1.2.1 Authority of Honduras/AHAC	5
1.2.2 Airspace	6
1.2.3 Aerodromes	6
1.2.4 Traffic Forecast	6
1.3 Planning Methodology	7
1.4 Air Navigation Planning Process	8
1.4.1 Analysis and Work Flow Process	8
1.4.2 Monitoring and Reporting Results	9
1.5 Problem Identification	10
1.5.1 Existing Problems	10
1.5.2 Future Problems	10
2. Honduras/AHAC's Aviation System Block Upgrade (ASBU) Implementation Status	11
2.1 ASBU Block 0 Implementation Metrics, Targets, and Status	11
2.1.1 ASBU B0 Implementation Metrics and Targets	11
2.1.2 ASBU B0 Implementation Status Summary	19
2.2 ASBU Block 1 Implementation Targets and Status	21
2.3 ASBU Block 2 Implementation Targets and Status	21
2.4 ASBU Block 3 Implementation Targets and Status	21
3. ICAO NACC Regional Aviation System Improvements (RASI) Status	22
4. Honduras/AHAC's State Aviation System Improvements (SASI) Status	22
4.1 Equipment Upgrades	22
4.2 Procedure Upgrades	22
4.3 Infrastructure Upgrades	22
5. Honduras/AHAC State ANP Next Review Schedule	22
Appendix A: ANRF Explained	23
Appendix B: ASBU ANRF Template	25
Appendix C: RASI and SASI ANRF Templates	26
Appendix D: AHAC ASBU Block 0 ANRFs	27
Appendix E: AHAC ASBU Block 1 ANRFs	51
Appendix F: AHAC SBU Block 2 ANRFs	
Appendix G: AHAC ASBU Block 3 ANRFs	51
Appendix H: AHAC RASI ANRFs	
Appendix I: AHAC SASI ANRFs	54

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

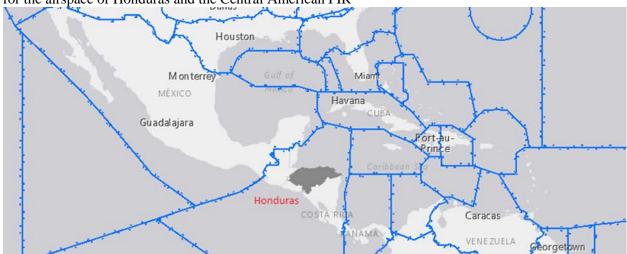


Figure 1.2.2: Central America FIR and Honduras

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 Information on Ramon Villeda Morales Airport (MHLM)

	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

1.2.4 Traffic Forecast

Number of typical daily operation (arrivals/departures) at Ramon Villeda Morales Airport (MHLM) are 55/55 (total of 100 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	50
2018	53
2019	56
2020	59
2021	63
2022	67
2023	71
2024	75
2025	79
2026	84
2027	89
2028	94
2029	99
2030	105
2031	112

Year	MHLM
2017	50
2018	52
2019	53
2020	55
2021	56
2022	58
2023	60
2024	61
2025	63
2026	65
2027	67
2028	69
2029	71
2030	73
2031	76

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

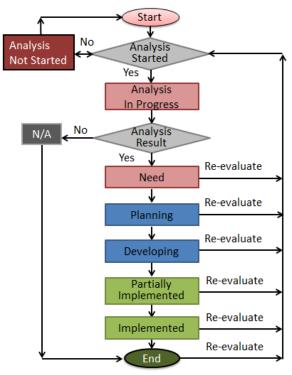


Figure 1.4.1: Analysis and Work Flow

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: Airport 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? Yes or No b. How many aerodromes need this capability? None or 1 c. How many aerodromes implemented the capability? None or 1	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? Yes or No b. How many aerodromes need this capability? None or 1 c. How many aerodromes implemented the capability? None or 1	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? Yes or No b. How many aerodromes need this capability? None or 1 c. How many aerodromes implemented the capability? None or 1	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	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 I c. How many aerodromes implemented the capability? None or I	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? Yes or No b. How many aerodromes need this capability? None or I c. How many aerodromes implemented the capability? None or 1	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? 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-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	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-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	1. AMAN via controlled time of arrival to a reference fix	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-1. Target 1: Assessed in Aug 2018 a. No b. 1 B0-RSEQ-1 Target 2: Assessed date N/A c. None	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 I c. How many aerodromes implemented the capability? None or I	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 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-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	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 -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 Interoper	rable 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? 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-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 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-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? 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-7. Target 1: Assessed in Aug 2018 a. Yes b. Yes B0-AMET-7. Target 2: Implemented in Jan 2000 c. Yes	Status – Implemented
	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? Yes or No b. How many aerodromes need this capability? None or 1 c. How many aerodromes implemented the capability? None or 1	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? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	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 Nob. Do we need this capability? Yes or No	B0-FICE-2. Target 1: Assessed in Aug 2018 a. Yes b. Yes	Status – Developing
		c. Have we implemented the capability? Yes or No	B0-FICE-2. Target 2: Implemented by jun 2019 c. No	
	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		
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? Yes or No b. How many aerodromes need this capability? None or I c. How many aerodromes implemented the capability? None or 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
NOPS	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: c. N/A	Status - N/A
SNET	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	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: Efficient		
CCO	1. Procedure 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-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? Yes or No b. How many aerodromes need this capability? None or 1 c. How many aerodromes implemented the capability? None or 1	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 1 c. Have we implemented the capability? None or 1	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 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
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 Nob. Do we need this capability?	B0- TBO -3. Target 1: Assessed in Aug 2018 a. No	Status - N/A
		Yes or No c. Have we implemented the capability? Yes or No	b. NoB0- TBO -3. Target 2:c. N/A	
	4. SATVOICE direct controller-pilot communication	a. Have we assessed the need? Yes or Nob. Do we need this capability?	B0- TBO -4. Target 1: Assessed in Aug 2018 a. No	Status - N/A
	(DCPC)	Yes or No c. Have we implemented the capability? Yes or No	b. No B0- TBO -4. Target 2: c. 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		_	Implementation Status (if Element is needed)		
Module	Elements	Not Started	In Progress	Need	N/A	Planning	Developing	Partially Implemented	Implemented
	Performance Improvement Area 1: Airpo	rt Ope	rations			!			
ACDM	Interconnection between aircraft operator & ANSP systems to share surface operations information				1				
	Interconnection between aircraft operator & airport operator systems to share surface operations information				1				
	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				
	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	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	Analysi	S	_	Implementation Status (if Element is needed)		
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 Intero	perable	System	s and l	Data				,
AMET	1. WAFS								√ /
	2. IAVW								√ /
	3. TCAC forecasts								√
	4. Aerodrome warnings			1					
	5. Wind shear warnings and alerts			1					- 1
	6. SIGMET								√
	7. Other OPMET information (METAR, SPECI and/or TAF)								1
	8. QMS for MET			√					
DATM	Standardized Aeronautical Information Exchange Model (AIXM)								$\sqrt{}$
	2. eAIP								$\sqrt{}$
	3. Digital NOTAM			√					
	4. eTOD						1		
	5. WGS-84								$\sqrt{}$
	6. QMS for AIM			√					
FICE	AIDC to provide initial flight data to adjacent ATSUs								
	2. AIDC to update previously coordinated flight data						V		
	3. AIDC for control transfer								
	4. AIDC to transfer CPDLC logon information to the Next Data						V		
	Authority						· ·		
1.01.0	Performance Improvement Area 3: Optimum Capa	acity an	d Flexi	ble Flig	1				
ACAS	1. ACAS II (TCAS version 7.1)				√ /				
	2. AP.FD function				√ /				
. CEP	3. TCAP function				√ ,				
ASEP	1. ATSA-AIRB				√ /				
4.077	2. ATSA-VSA		_		√	1			
ASUR	1. ADS-B		-		1	√			
	2. Multilateration (MLAT)			-	√				
FRTO	CDM incorporated into airspace planning			√	1				
	2. Flexible Use of Airspace (FUA)				√		1		
	3. Flexible routing						√ /		
	4: CPDLC used to request and receive re-route clearances						√ /		
NOPS	Sharing prediction of traffic load for next day	<u> </u>					√		
~=	2. Proposing alternative routings to avoid or minimize ATFM delays				√ /				
OPFL	1. ITP using ADS-B				√		,		
SNET	Short Term Conflict Alert implementation (STCA)						√ /		
	2. Area Proximity Warning (APW)						√ 		
	3. Minimum Safe Altitude Warning (MSAW)						√ /		
	4. Medium Term Conflict Alert (MTCA)						√		
	Performance Improvement Area 4: Efficie	ent Flig	ht Path	S					
CCO	Procedure changes to facilitate CCO	—							1
	2. Airspace changes to facilitate CCO	—							1
	3. PBN SIDs								1
CDO	Procedure changes to facilitate CDO	<u> </u>							1
	2. Airspace changes to facilitate CDO								1
	3. PBN STARs				,				1
TBO	ADS-C over oceanic and remote areas				√ /				
	2. CPDLC over continental areas				√ /				
	3. CPDLC over oceanic and remote areas				√ /				
	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: 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

An ASBU ANRF should 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 NAM ASBU Handbook.

Block - Module The Module Designation for the ASBU Module, as per the *NAM ASBU*

Handbook.

Date The date when the form was completed or updated.

Module Description The Summary Description for the ASBU Module, as per the *NAM ASBU*

Handbook.

Element The descriptive text for each Element, as per the *NAM ASBU Handbook*. 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 Implemented 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 gate-to-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.

Notes Any further information as deemed appropriate.

Appendix B: ASBU ANRF Template

	Honduras ASBU Air Navigation Reporting Form (ANRF)									
PIA	4		Blo	ock - N	Iodule	B0 - CDO		Date	August 08, 2018	
opti	Module Description: To use performance-based airspace and arrival procedures allowing an aircraft to fly its optimum profile using continuous descent operations. This will optimize throughput, allow fuel efficient descent profiles, and increase capacity in terminal areas. The application of PBN enhances CDO.									
_					n Status		T			
1	1 Element Description: Date Planned/Implemented Status							Status Implemented		
	Desc	us De	status	<mark>S.</mark>						
2	Rou	te cha	anges		n ilitate CE	00			Planned/Implemented nent in Aug 2008	Status Implemented
	Desc	us De	status	<mark>s.</mark>				T		
3	PBN	I STA	ARs	riptio	n				Planned/Implemented nent in Aug 2008	Status Implemented
	Desc	us De	status	<mark>s.</mark>						
		d Ben								
Ele	ment		Descri			lse leave it blank. lse leave it blank.				
_	pacity			J	,					
Effi	cienc _.	y								
Env	ironn	nent								
Safe										
				haller						
				olemen	tation					
		Imple res Av		tation						
		res Av nal A								
Not	es		• •	vais <mark>plicabl</mark>	<mark>le.</mark>					

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									
Iodule Description: ICAO NACC RO has identified a	airport improveme	nts.							
Module Description: ICAO NACC RO has identified airport improvements. Refer to the ASBU ANRF for the remaining sections (i.e., Element Implementation Status, Achieved Benefits, Implementation Challenges, and Notes)									

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., Elementation Challenges, and Notes)	ment Implen	nentation Status, Achieved Benefits,					

Appendix D: Honduras/AHAC ASBU Block 0 ANRFs

		[Hondura	s] ASBU Air Navigation Re	eporting	g Form (ANRF)	
PIA	1	Block -	B0 - ACDM	Date	August 08, 2018	
		Module				
Mo	dule Descri	ption: To imple	ment collaborative application	ons that	will allow the sharin	g of surface
ope	rations data	among the differ	ent stakeholders on the airpo	ort. This	will improve surface	traffic
mar	nagement rec	ducing delays on	movement and manoeuvring	g areas a	and enhance safety, e	fficiency and
situ	ational awar	eness.				
Ele	ment Imple	mentation Statu	IS			
1	Element De	escription:		Date		Status
	Interconnec	tion between air	craft operator and ANSP	Plann	ed/Implemented	N/A
	systems to s	share surface ope	erations information	Date I	N/A	
	Status Deta	ails				·
	Enter status	details				
2	Element Do	escription:		Date		Status
			craft operator and airport		ed/Implemented	N/A
		stems to share su	rface operations	Date I	N/A	
	information					
	Status Deta					
	Enter status	details				
3	Element Do	=		Date		Status
			port operator and ANSP		ed/Implemented	N/A
	<u> </u>		erations information	Date 1	N/A	
	Status Deta					
	Enter status					1
4	Element Do	-		Date		Status
			port operator, aircraft		ed/Implemented	N/A
	-	•	to share surface operations	Date I	N/A	
-	information					
	Status Deta					
_	Enter status			Data		Status
5	Element Do	escription: ve departure que	ua managamant	Date	od/Implemented	Status Planning
	Conaborati	ve departure que	ue management		ment by Dec 2019	Fiaming
	Status Deta	oile		Imple	ment by Dec 2019	
	Enter status					
Δcł	nieved Bene					
	ess and Equ					
	ess and Equ Pacity	ıı y				
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	rironment					
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Safety
Implementation Challenges
Ground system Implementation
Avionics Implementation
Procedures Availability
Operational Approvals
Notes

		Hondura	s ASBU Air Navigation Re	porting	Form (ANRF)	
PIA	. 1	Block -	B0 - APTA	Date	August 08, 2018	
		Module				
	-	•	of Performance-based Navig		, 0	C
			(GLS) procedures will enha			
		•	reasing safety, accessibility		•	•
		-	gation satellite system (GNS			
		-	stem (SBAS) and GLS. The	flexibilit	y inherent in PBN app	roach design
		to increase run	<u> </u>			
		mentation State	us	1		Ta
	Element Do	-		Date	1/7	Status
		_	with vertical guidance to		ned/Implemented	implemented
-	LNAV/VNA			Imple	mented in Aug 2008	
	Status Deta		. 1			
	Element Do	edure implemen	ted.	Date		Status
		-	with vertical guidance to		ed/Implemented	N/A
	LPV minim		vitii vertical guidance to	Date 1	-	IN/A
_	Status Deta			Date	. 1/11	
	N/A	1115				
	Element Do	escription:		Date		Status
		-	vithout vertical guidance to		ed/Implemented	Implemented
	LNAV mini	_			mented in Aug 2008	F
-	Status Deta	ils				<u> </u>
	GNSS proce	edure implemen	ted.			
	Element Do			Date		Status
	GBAS Land	ling System (GI	LS) procedures to CAT I	Plann	ed/Implemented	N/A
	minima			Date I	N/A	
	Status Deta	ils				
	N/A					
Ach	ieved Bene	iits				
Acc	ess and Equ	ity				
Cap	acity					
Effic	ciency					
Env	ironment					
Safe	•					
		n Challenges				
		Implementation				
	onics Implen					
Pro	cedures Ava	<u> </u>				
	rational App					

		Honduras A	ASBU Air Navigation Re	porting	Form (ANRF)	
PIA	. 1	Block -	B0 - RSEQ	Date	August 08, 2018	
		Module				
Mo	dule Descri	ption: To manage	arrivals and departures (i	ncluding	time-based metering	g) to and from a
mul	ti-runway a	erodrome or location	ons with multiple depende	ent runw	ays at closely proxima	ate aerodromes,
to e	fficiently ut	ilize the inherent r	inway capacity.			
Elei	ment Imple	mentation Status				
1	Element D	escription:		Date		Status
	AMAN via	controlled time of	arrival to a reference fix		ned/Implemented	N/A
				Date 1	N/A	
	Status Det	ails				
	N/A					
2	Element D	-		Date		Status
	Departure i	nanagement			ned/Implemented	Need
				N/A		
	Status Det					
	Enter status			1		_
3	Element D	-		Date		Status
	Departure f	low management			ned/Implemented	N/A
	~ -			Date 1	N/A	
	Status Det	ails				
	N/A			1		T Gt .
4	Element D	-		Date	1/7 1 4 1	Status
	Point merge	e			ned/Implemented	N/A
	G(4 D) 4	*1		Date 1	N/A	
	Status Deta N/A	ans				
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	ciency					
	ironment					
Safe						
		n Challenges				
		Implementation				
	onics Impler					
	cedures Ava					
	rational Ap	<u> </u>				
Not		F				
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			Honduras A	ASBU Air Navigatio	n Reporting	Form (ANRF)	
PIA	1		Block -	B0 - SURF	Date	August 08, 2018	
			Module				
Mo	dule]	Descri	ption: First levels	of advanced-surface	movement g	uidance and control s	ystems (A-
		•		d alerting of moveme	ents of both a	ircraft and vehicles at	t the aerodrome,
	•		runway/aerodrome	•			
		•		-broadcast (ADS-B) i			e (ADS-B APT).
				used for low-visibili	ty operations	•	
			mentation Status		<u> </u>		T -
1			escription:		Date	1/7	Status
			with at least one co	ooperative surface		ed/Implemented	N/A
			e system		Date 1	N/A	
	Stati N/A	ıs Deta	alls				
2		ont D	agarintian.		Date		Status
4		юн <i>D</i> -В АР	escription:		- ****	ned/Implemented	N/A
	ADS	-D AI	1		Date 1	-	IV/A
-	Stati	ıs Deta	aile		Date	. 1/11	
	N/A	us Den	******				
3		nent D	escription:		Date		Status
			alerting with flight	identification		ed/Implemented	N/A
		mation			Date 1	-	
	Stati	ıs Deta	ails		l .		1
	N/A						
4	Elen	nent D	escription:		Date		Status
	EVS	for tax	ti operations			ed/Implemented	N/A
					Date 1	N/A	
		ıs Deta	ails				
	N/A						
5			escription:		Date		Status
	Airp	ort veh	icles equipped with	n transponders		ed/Implemented	N/A
	C4 4	D (. ±1		Date 1	N/A	
		ıs Deta	ails				
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Safe		ieni					
	-	ntatio	n Challenges				
			Implementation				
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Procedures Availability	
Operational Approvals	
Notes	

		ASBU Air Navigation Re	porung	Form (ANKF)	
PIA 1	Block -	B0 - WAKE	Date	August 08, 2018	
	Module				
Module Descri	ption: Improved	throughput on departure an	d arriva	l runways through op	timized wake
turbulence sepa	ration minima, re	vised aircraft wake turbulen	ce categ	gories and procedures	S.
Element Imple	mentation Status	S			
1 Element D	Element Description: New PANS-ATM wake turbulence categories and		Date		Status
New PANS			Planned/Implemented		N/A
separation	separation minima Date N/A		N/A		
Status Det	ails				
N/A					
2 Element D	nt Description: Date			Status	
_		pproach procedures for		ed/Implemented	N/A
*	•	ines spaced less than 760	Date 1	N/A	
	00 feet) apart				
Status Det	ails				
N/A					l
3 Element D	-		Date		Status
	•	and arrival operations		ed/Implemented	N/A
· ·	•	ys with centrelines spaced	Date I	N/A	
	less than 760 meters (2,500 feet) apart				
Status Det	ails				
N/A	• .•		T		Ta
4 Element D	-	Complete (W/TMD)	Date	1/7 1 4 1	Status
	•	for departures (WTMD)	Date 1	ned/Implemented	N/A
_	_	ays with centrelines spaced (eet) apart based on	Date	N/A	
observed ci		eet) apart based on			
Status Det					
N/A	ans				
5 Element D	escrintion:		Date		Status
	-	and separation minima		ed/Implemented	N/A
o wane ture	and the suit of th	and separation infilling	Date I	-	1 1/1 1
Status Det	ails			<u>-</u>	
N/A					
Achieved Bene	fits				
Access and Equ					
Capacity	<u>, </u>				
Efficiency					
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Implementatio	n Challenges				
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Avionics Implementation
Procedures Availability
Operational Approvals
Notes

	Honduras ASBU Air Navigation Reporting Form (ANRF)				
PIA	1	Block -	B0 - AMET	Date	August 08, 2018
		Module			

Module Description: Global, regional and local meteorological information:

- a) forecasts provided by world area forecast centres (WAFC), volcanic ash advisory centres (VAAC) and tropical cyclone advisory centres (TCAC);
- b) aerodrome warnings to give concise information of meteorological conditions that could adversely affect all aircraft at an aerodrome including wind shear; and
- c) SIGMETs to provide information on occurrence or expected occurrence of specific enroute weather phenomena which may affect the safety of aircraft operations and other operational meteorological (OPMET) information, including METAR/SPECI and TAF, to provide routine and special observations and forecasts of meteorological conditions occurring or expected to occur at the aerodrome.

This information supports flexible airspace management, improved situational awareness and collaborative decision making, and dynamically optimized flight trajectory planning. This module includes elements which should be viewed as a subset of all available meteorological information that can be used to support enhanced operational efficiency and safety.

	ement Implementation Status		T				
1	Element Description:	Date	Status				
	WAFS	Planned/Implemented	Implemented				
		Implemented in Jan 2000					
	Status Details						
2	Element Description:	Date	Status				
	IAVW	Planned/Implemented	Implemented				
		Implemented in Jan 2000					
	Status Details						
3	Element Description:	Date	Status				
	TCAC forecasts	Planned/Implemented	Implemented				
		Implemented in Jan 2000					
	Status Details						
4	Element Description:	Date	Status				
	Aerodrome warnings	Planned/Implemented	Need				
		N/A					
	Status Details						
5	Element Description:	Date	Status				
	Wind shear warnings and alerts	Planned/Implemented	Need				
		N/A					
	Status Details						
6	Element Description:	Date	Status				
	SIGMET	Planned/Implemented	Implemented				
		Implemented in Jan 2000					

	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					
Ac	 Phieved Benefits					
Ac	cess and Equity					
Ca	pacity					
Eff	ficiency					
En	vironment					
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Im	plementation Challenges					
Gr	round system Implementation					
\overline{Av}	ionics Implementation					
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Op	perational Approvals					
No	otes					

		Honduras A	ASBU Air Navigation Ro	eporting	Form (ANRF)				
PIA	2	Block -	B0 - DATM	Date	August 08, 2018				
		Module							
Mo	dule Descr	iption: The initial	introduction of digital pro	cessing	and management of in	formation,			
fror	n originatio	n to publication, th	rough aeronautical inform	nation ser	rvice (AIS)/aeronautic	al information			
	•		on, use of aeronautical ex-	•		ion to electronic			
			on (AIP) and better qualit	y and av	ailability of data.				
	Element Implementation Status								
1		Description:		Date		Status			
			Formation Exchange		ned/Implemented	Implemented			
	Model (AI			Enter	date if applicable				
	Status Det								
	Enter statu			D-4-		C4-4			
2	eAIP	escription:		Date	ned/Implemented	Status Implemented			
	eair				date if applicable	Implemented			
	Status Det	aile		Linter	част аррпсаотс				
	Enter statu								
3		escription:		Date		Status			
	Digital NC	-			ned/Implemented	Need			
	8			N/A	<u>r</u>				
	Status Det	ails							
	Enter statu	<mark>s details</mark>							
4	Element D	escription:		Date		Status			
	eTOD			Planned/Implemented Developing					
				Enter	date if applicable				
	Status Det								
	Enter statu			<u> </u>		T			
5	Element D	Description: WGS	-84	Date	107	Status			
					ned/Implemented	Implemented			
_	Status Det	aile		Imple	mented in Jan 1993				
	Enter statu								
	Ziiver state								
6	Element D	Description:		Date		Status			
	QMS for A	AIM .		Planr	ned/Implemented	Need			
				N/A					
	Status Det	ails		•					
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Acc	ess and Eqi	ıity							

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	Honduras ASBU Air Navigation Reporting Form (ANRF)								
PIA	2	Block -	B0 - FICE	Date	August 08, 2018				
		Module							
Mo	dule Descri	ption: To improve	e coordination between air	traffic s	service units (ATSUs)	by using ATS			
inte	rfacility data	a communication (AIDC) defined by ICAO's	s Manua	l of Air Traffic Servic	ces Data Link			
App	olications (D	oc 9694). An addi	tional benefit is the improv	ved effic	eiency of the transfer	of			
con	communication in a data link environment.								
Ele	ment Imple	mentation Status							
1	1 Element Description: Date Status								
	AIDC to pr	ovide initial flight	data to adjacent ATSUs	Plann	ed/Implemented	Developing			
				Enter	date if applicable				
-	Status Deta	ails				l			
	Enter status	details							
2	Element D	escription:		Date		Status			
	AIDC to up	date previously co	ordinated flight data	Plann	ed/Implemented	Developing			
				Enter	date if applicable				
	Status Deta	ails							
	Enter status	details							
3	Element D	escription:		Date		Status			
	AIDC for c	ontrol transfer		Plann	ed/Implemented	Developing			
				Enter	date if applicable				
	Status Deta	ails							
	Enter status	details							
4	Element D	escription:		Date		Status			
	AIDC to tra	ansfer CPDLC logo	on information to the	Plann	ed/Implemented	Developing			
	Next Data A	Authority		Enter	date if applicable				
	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							
Gra	und system	Implementation							
Avi	onics Implen	nentation							
Pro	cedures Ava	ilability							
Оре	rational Ap	provals							
Not	es								

		Honduras	ASBU Air Navigati	on Reporting	Form (ANRF)	
PIA	3	Block -	B0 - ACAS	Date	August 08, 2018	
		Module				
Mo	dule Descri	ption: To provid	e short-term improve	ments to exist	ng airborne collision	avoidance
syst	ems (ACAS) to reduce nuisar	nce alerts while maint	aining existing	g levels of safety. Th	is will reduce
traj	ectory devia	tions and increase	safety in cases where	e there is a bre	akdown of separation	n.
Ele	ment Imple	mentation Statu	S			
1	Element D	escription:		Date		Status
	ACAS II (T	CAS version 7.1)		ed/Implemented	N/A
				Date I	N/A	
	Status Deta	ails				
	N/A					
2	Element D	-		Date		Status
	AP/FD fund	ction			ed/Implemented	N/A
				Date 1	N/A	
	Status Deta	ails				
	N/A					1
3	Element D	-		Date	1/7	Status
	TCAP func	tion			ed/Implemented	N/A
-	Gt 4 D 4	•1		Date I	N/A	
	Status Deta N/A	alls				
A al	ieved Bene	C. L.				
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	-	n Challenges				
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	erational Ap					
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			[STATE	ASBU Air Navigatio	on Reporting	Form (ANRF)		
PIA	3		Block -	B0 - ASEP	Date	Month XX, 2017		
			Module					
Mo	dule I	Descri	ption: Two air	traffic situational awar	eness (ATSA)	applications which v	will enhance	
safe	ety and	l effici	ency by providi	ng pilots with the mean	ns to enhance	traffic situational awa	areness and	
ach	achieve quicker visual acquisition of targets:							
a) A	AIRB (basic	airborne situatio	onal awareness during f	light operation	ns).		
b) V	VSA (v	visual	separation on ap	proach).				
Ele	ment l	Imple	mentation Stat	us				
1	Elem	ent D	escription:		Date		Status	
	ATSA	4-AIR	В		Planr	ed/Implemented	N/A	
					Date 1	N/A		
	Statu	s Deta	ails		•			
	N/A							
2	Elem	ent D	escription:		Date		Status	
	ATSA	A-VSA	Λ		Planr	ed/Implemented	N/A	
					Date 1	Date N/A		
	Statu	s Deta	ails					
	N/A							
Acl	nieved	Bene	fits					
Acc	ess an	d Equ	ity					
Cap	pacity							
Effi	ciency	,						
Env	rironm	ent						
Safe	ety							
Imj	pleme	ntatio	n Challenges					
Gra	ound s	ystem .	Implementation					
Avi	onics l	Implen	nentation					
Pro	cedur	es Ava	ilability					
Оре	eratior	ıal Ap	provals					
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	le initial capability for	lower cost gr	ound surveillance sup	ported by new
tecl	hnolog	gies su	ch as ADS-B OU	T and wide area multi	ilateration (M	LAT) systems. This ca	apability will be
exp	ressec	l in va	rious ATM servio	ces, e.g. traffic inform	ation, search a	and rescue and separat	ion provision.
Ele		_	mentation Statu	S			
1	Elen	ient D	escription:		Date		Status
	ADS-B				ned/Implemented	Planning	
						ment by May 2019	
		ıs Det					
_			s details				T =
2			escription:		Date		Status
	MLA	ΛT				ned/Implemented	N/A
	~				Date 1	N/A	
		ıs Det	ails				
	N/A						
		Bene					
		ıd Equ	uty				
	pacity						
	icienc _.						
	vironn	ıent					
Saf							
	_		n Challenges				
		•	Implementation				
		-	nentation				
			uilability				
_		nal Ap	provals				
No	tes						

	Honduras ASBU Air Navigation Reporting Form (ANRF)									
PIA	. 3	Block -	B0 - FRTO	Date	August 08, 2018					
		Module								
Mo	dule Descr	iption: To allow th	ne use of airspace which w	ould oth	erwise be segregated	(i.e. special use				
airs	pace) along	with flexible routi	ng adjusted for specific tra	ffic patt	erns. This will allow a	greater routing				
poss	sibilities, re	ducing potential co	ngestion on trunk routes a	nd busy	crossing points, resul	ting in reduced				
fligl	nt lengths a	nd fuel burn.								
		ementation Status								
1		escription:		Date		Status				
	CDM inco	rporated into airspa	ce planning	Plann N/A	ed/Implemented	Need				
	Status Det									
	Enter statu									
2		escription:		Date		Status				
	Flexible U	se of Airspace (FU.	A)		ned/Implemented	N/A				
	<u> </u>			Date I	N/A					
	Status Det	ails								
	N/A	\ ¹ 4 ¹		Date		G4-4				
		escription:		Planned/Implemented		Status				
	Flexible ro	uting			date if applicable	Developing				
	Status Det	aile		Linter	date if applicable					
	Enter statu									
4		escription:		Date		Status				
-		-	eceive re-route clearances		ed/Implemented	Developing				
		1		_	date if applicable					
	Status Det	ails								
	Enter statu	s details								
Ach	ieved Bene	efits								
Acc	ess and Eqi	uity								
Cap	acity									
Effic	ciency									
Env	ironment									
Safe	ety									
Imp	lementatio	on Challenges								
		Implementation								
Avia	onics Imple	mentation								
	cedures Av	<u>*</u>								
Ope	rational Ap	pprovals								
Not	es									

			Honduras A	ASBU Air Navigation Re	porting	Form (ANRF)	
PIA	3	3	Block -	B0 - NOPS	Date	August 08, 2018	
			Module				
Mo	dule	Descrip	otion: Air traffic	flow management (ATFM	(is used	to manage the flow of	of traffic in a
way	tha	t minimi	zes delays and ma	ximizes the use of the ent	ire airsp	ace. Collaborative AT	TFM can
regulate traffic flows involving departure slots, smooth flows and manage rates of entry into airspace							
alor	ng tra	affic axe	s, manage arrival	time at waypoints or fligh	t inform	ation region (FIR)/sec	ctor boundaries
and	re-r	oute traf	fic to avoid satura	ted areas. ATFM may also	be used	d to address system di	sruptions
				n or natural phenomena.			
			mentation Status				
1			escription:		Date		Status
	Sha	ring pred	diction of traffic lo	oad for next day		ned/Implemented	Developing
					Enter	date if applicable	
		tus Deta					
		er status			T = .		T at :
2			escription:		Date	1.7	Status
				to avoid or minimize		ned/Implemented	N/A
-		FM dela			Date 1	N/A	
	Stat N/A	tus Deta	ills				
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	ess t pacit	-	ary				
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	Honduras ASBU Air Navigation Reporting Form (ANRF)								
PIA	3	Block -	B0 - OPFL	Date	August 08, 2018				
		Module							
Mod	ule Descri	ption: To enable	aircraft to reach a mo	re satisfactor	y flight level for fligh	t efficiency or to			
avoi	avoid turbulence for safety. The main benefit of ITP is fuel/emissions savings and the uplift of greater								
payl	oads.								
Elen	nent Imple	mentation Statu	S						
1	Element D	escription:		Date		Status			
	TP using A	ADS-B		Plann	ned/Implemented	N/A			
				Date 1	N/A				
	Status Deta	ails							
	N/A								
Ach	eved Bene	fits							
Acce	ss and Equ	ity							
Cap	acity								
Effic	iency								
Envi	ronment								
Safe	ty								
		n Challenges							
Gro	ınd system .	Implementation							
Avio	nics Implen	nentation							
Proc	edures Ava	ilabi lity							
Ope	rational Ap	provals							
Note	Notes								

	Honduras ASBU Air Navigation Reporting Form (ANRF)								
PIA	3	Block -	B0 - SNET	Date	August 08, 2018				
		Module							
con war mal	trollers of rnings (AP	potential risks to flig W) and minimum sa tial contribution to s	monitoring of flights while ght safety. Alerts from sho fe altitude warnings (MSA safety and remain required	rt-term (AW) are	conflict alert (STCA), proposed. Ground-bas	area proximity sed safety nets			
Ele	ment Imp	lementation Status							
1		Description:		Date		Status			
	Short Term Conflict Alert (STCA)				ned/Implemented ment by Apr 2019	Developing			
	Status De	etails							
	Enter stat	<mark>us details</mark>							
2		Description: ximity Warning (AP)	W)		ned/Implemented ment by Apr 2019	Status Developing			
	Status De	etails							
	Enter stat	us details							
3	Element	Description:		Date		Status			
	Minimum	Safe Altitude Warn	ing (MSAW)		ned/Implemented ment by Apr 2019	Developing			
	Status De	etails							
	Enter stat	<mark>us details</mark> .							
4	Element	Description:		Date		Status			
	Medium 7	Term Conflict Alert	(MTCA)		ned/Implemented ment by Apr 2019	Developing			
	Status De	etails		1		-			
	Enter stat	<mark>us details</mark>							
Acl	nieved Ber	nefits							
Acc	ess and Eq	quity							
Cap	pacity								
Effi	ciency								
Env	rironment								
Saf									
Im	plementati	ion Challenges							
Gra	ound system	n Implementation							
Avi	onics Impl	ementation							
Pro	cedures A	vailability							
Ope	erational A	pprovals							
Not	tes								

	Honduras ASBU Air Navigation Reporting Form (ANRF)								
PIA	4	Block -	B0 - CCO	Date	August 08, 2018				
		Module							
Mo	dule Descri	ption: To implen	nent continuous clim	b operations ir	conjunction with pe	rformance-based			
nav	igation (PBN	N) to provide oppo	ortunities to optimize	throughput, ii	nprove flexibility, en	able fuel-			
effi	cient climb p	orofiles, and incre	ase capacity at conge	ested terminal	areas. The application	n of PBN			
enh	enhances CCO.								
Ele	ment Imple	mentation Status	}						
1	Element De	escription:		Date		Status			
	Procedure c	hanges to facilitat	te CCO	Plann	ed/Implemented	Implemented			
				Enter	date if applicable				
	Status Deta								
	Enter status								
2	Element D	-		Date		Status			
	Airspace changes to facilitate CCO				ed/Implemented	Implemented			
				Enter	date if applicable				
	Status Deta								
	Enter status			l n		T Ct t			
3	Element De	escription:		Date	1/7 1 4 1	Status			
	PBN SIDs				ed/Implemented	Implemented			
				Enter	date if applicable				
_	Status Deta	nils							
	Enter status	details							
Acł	ieved Bene	fits							
Acc	ess and Equ	ity							
Cap	pacity								
Effi	ciency								
Env	ironment								
Safe									
		n Challenges							
		Implementation							
	onics Implen								
	cedures Ava	<u> </u>							
	rational Ap	provals							
Not	es								

	Honduras ASBU Air Navigation Reporting Form (ANRF)														
PIA	\	4	Block -	B0 - CDO	Date	August 08, 2018									
			Module												
Mo	dul	e Descrij	ption: To use pe	erformance-based airsp	pace and arriv	al procedures allowing	g an aircraft to								
fly	its o	optimum	profile using con	tinuous descent opera	tions. This wi	ll optimize throughput	t, allow fuel								
effi	efficient descent profiles, and increase capacity in terminal areas. The application of PBN enhances CDO.														
Ele	Element Implementation Status														
1	Ele	ement De	escription:		Date		Status								
	Pro	ocedure c	hanges to facilita	ate CDO		ed/Implemented	Implemented								
					Enter	date if applicable									
		atus Deta													
		ter status					Tai								
2			escription:	CDO	Date	1/7 1 4 1	Status								
	Air	rspace cn	anges to facilitat	e CDO		ed/Implemented date if applicable	Implemented								
					Enter	date if applicable									
-	Sta	atus Deta	nils												
		ter status													
3			escription:		Date		Status								
		N STAR	-			ed/Implemented	Implemented								
						date if applicable									
	Sta	atus Deta	nils												
	<mark>Ent</mark>	ter status	details												
Acl	niev	ed Benef	fits												
Acc	ess	and Equ	ity												
_	paci	-													
	cien	-													
		nment													
Safe															
			n Challenges												
			Implementation												
		cs Implen													
		lures Ava													
		ional App	provals												
Not	tes														

Honduras ASBU Air Navigation Reporting Form (ANRF)							
PIA	4	Block -	B0 - TBO	Date	August 08, 2018		
		Module					
com		s in air traffic serv	nent a set of data link a vices, which will lead t				
		mentation Status	<u> </u>				
	Element Description:			Date		Status	
	ADS-C over oceanic and remote areas			Planned/Implemented Date N/A		N/A	
	Status Deta N/A	nils				1	
2	Element De	escription:		Date		Status	
	CPDLC ove	er continental area	as	Plann Date 1	ned/Implemented N/A	N/A	
	Status Deta N/A	nils					
3	Element Do	escription:		Date		Status	
	CPDLC ove	er oceanic and ren	note areas	Plann Date 1	ned/Implemented N/A	N/A	
	Status Details N/A						
4	Element Description:			Date		Status	
	SATVOICE (DCPC)	E direct controller	-pilot communication	Plant Date 1	ned/Implemented N/A	N/A	
	Status Deta N/A	nils		I			
	ieved Bene						
\overline{Acc}	ess and Equ	ity					
	acity						
Effi	ciency						
Env	ironment						
Safe	ety						
		n Challenges					
Gro	und system	Implementation					
Avio	Avionics Implementation						
Pro	cedures Ava	ilability					
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 Reporting Form (ANRF)						
IC	AO NACC Regional Initiatives	Date	September 1, 2017				
Mo	dule Description: ICAO NACC RO has identified airpor	t improveme					
	ment Implementation Status	•					
1	Element Description:	Date Planned/Implemented		Status			
	Aerodrome certification	Dec 2		Developing			
	Status Details			1 0			
	ICAO NACC region has a goal to have CAR aerodromes in its regional ANP Table AOP I-1 be certified. My						
	process.	•					
2	Element Description:	Date 1	Planned/Implemented	Status			
	Heliport operational approval	Sep 20		Implemented			
l	Status Details						
	ICAO NACC region has a goal to have CAR heliports in its regional ANP Table AOP I-1 certified. Currently						
	in Saint Lucia, there is one approved heliport (servicing a hotel resort), and each airport has a designated						
	landing area for helicopters. There is also a heliport in th	ne need stage	at a private hospital.				
3	Element Description:	Date 1	Planned/Implemented	Status			
	Visual aids for navigation	Sep 20		Implemented			
	Status Details						
1	ICAO NACC region has a goal to have CAR airports in its ANP Table AOP I-1 compliant with Annex 14						
l	requirements. This capability is implemented at both TW	VOW and TB	TF.				
4	Element Description:	Date	Planned/Implemented	Status			
	Aerodrome Bird/Wildlife Organization and Control	Dec 2	<mark>018</mark>	Developing			
	Programme Programme						
	Status Details						
	ICAO NACC region has a goal to have CAR airports in its ANP Table AOP I-1 have an aerodrome						
	bird/wildlife organization and control programme. Saint Lucia is developing the manual to address this issue.						
Ac	<mark>hieved Benefits</mark>						
	<mark>cess and Equity</mark>						
	ment 1 - Aerodrome certification: International operators	may not be p	ermitted to operate to aer	odromes that are			
	certified						
	ment 2. Heliport operational approval: International opera	tors may not	be permitted to operate t	<mark>o heliports that</mark>			
	not approved						
	ment 3. Visual aids for navigation: International operators	s may not be j	permitted to operate to ac	erodromes that			
	not compliant with Annex 14						
	pacity: No report						
	iciency						
	ment 3. Visual aids for navigation: Annex 14 compliant v	ısual aids foı	navigation assist flights	to more			
_	ciently complete ground movements						
	vironment: No report						
Saj				1,1 1, 1, 1, 1			
Element 1 - Aerodrome certification: Certification should be contingent upon the airport complying with applicable							
	AO SARPs. Certification and the associated regulatory ove			ss of SSP and			
SMS processes to identify and correct safety issues at certified aerodromes. Element 2. Heliport operational approval: Certification should be contingent upon the heliport complying with							
	applicable ICAO SARPs. Approval and the associated regulatory oversight should increase the effectiveness of SSP						
	and SMS processes to identify and correct safety issues at approved heliports.						
	Element 3. Visual aids for navigation: Annex 14 compliant visual aids for navigation reduce flight crew confusion						
	and assist in avoiding runway incursions or other ground movement errors.						
	Element 4. Aerodrome Bird/Wildlife Organization and Control Programme: An effective organization and control programme reduces the potential for aircraft to strike wildlife or ingest wildlife into engines or propellers.						
_	<u> </u>	or ingest will	ante into engines or prop	CHCIS.			
ım	plementation Challenges						

Ground system Implementation: No report: No report				
Avionics Implementation: No report				
Procedures Availability: No report				
Operational Approvals: No report				
Notes 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.

Modu the gr	Saint Lucia SASI Air Navigation Rejustructure Upgrades						
the gr		Date	September 1, 2017				
occup staffii infras	rowing Aviation Industry. This will improve capacity and satuvering of wide body Aircraft (example B777) at the turning pancy time and reduce surface wear and tear. New ATC faciling. Improving operational space is vital to meet the need of instructure upgrades will increase an overall traffic management.	fety in the bay. Su ity is received	ne in terminal and allow so nich maneuvering will redu quired to meet the demand d traffic. The benefits of s	eamless ice runway is of increase			
	ent Implementation Status	D (TO 1/T 1 4 1	G ₄			
	E <mark>lement Description:</mark> Airport Terminal Development	Date Planned/Implemented		Status Planning			
	Status Details	TBD Plann		Planning			
		aanda du	wing pools poriods With t	ha aurrant			
	Current terminal building does not meeting the passenger demands during peak periods. With the current airport terminal situation, the security and safety are likely to be compromised.						
	Element Description:		Planned/Implemented	Status			
	Airport Runway Rehabilitation and Extension	TBD	1 lanneu/Impiementeu	Analysis in			
¹	inport Ranway Reliabilitation and Extension	IDD		Progress			
5	Status Details	1		11081000			
	Certain areas of the runway require improvement. For examp	ole, it is l	highly important to be full	v compliance			
	with ICAO Aerodrome 4E.			1			
3 I	Element Description:	Date	Planned/Implemented	Status			
	Control Tower and Technical Building Upgrades	TBD	•	Planning			
5	Status Details						
(Control Cab was originally designed to house one ATCO per	shift. H	lowever, the Control Cab	<mark>currently</mark>			
	pperating with three ATCOs per shift to meet the traffic dema						
	was installed in the already crowded Control Cab. The expec						
	raffic will only make the work environment of the Control Ca	ab worse	e and impact on safety and	l efficiency of			
	he ATC operation.						
	eved Benefits						
Acces	ss and Equity						
C							
Capa Elem	ent 1 - Airport Terminal Development: Increase the capacity	y to hone	dla naccangare emoathly a	t the peak arrival			
perio		y to mane	he passengers smoothly a	t tile peak allival			
Effici							
புராப	chey						
Envir	'onment						

Safet	y						
	ent 2 - Airport Runway Rehabilitation and Extension: Impro	ve opera	ational safety of aircraft.				
	ent 3 - Control Tower and Technical Building Upgrades: Im			t and ATCOs.			
	ementation Challenges						
Grou	nd system Implementation						
Avion	nics Implementation						
<u>Proce</u>	edures Availability						
<u>Oper</u>	ational Approvals						

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

