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Basic Building Block (BBB) Framework



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**Second Meeting of Rapporteurs of the North American, Central
American and Caribbean Working Group (NACC/WG/RAP)
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Agenda

✈ Introduction

✈ BBB Verification

✈ BBB Framework



Introduction

- The Basic Building Block (**BBB**) framework outlines the foundation of any robust air navigation system.
- **BBB** are essential for services to be provided for international civil aviation in accordance with ICAO Standards.
- The essential services are: Aerodromes, Air Traffic Management, Search and Rescue, Meteorology and **Information Management**
- The **BBB** framework identifies the end users of these services as well as the assets CNS infrastructure



Introduction

- The **BBB** is considered an independent framework and not a block of the **ASBU** framework as they represent a baseline rather than an evolutionary step.
- This baseline is defined by essential services recognized by ICAO Member States as necessary for international civil aviation to develop in a safe and orderly manner.
- Once these essential services are provided, they constitute the baseline for any operational improvement
- **BBB** framework is presented online in the GANP Portal:
<https://www4.icao.int/ganpportal/BBB>



BBB Verification

- It is important to highlight on verifying the implementation of the essential air navigation services outlined in the **BBB** framework as the capability of the States to oversight these services is covered by the ICAO USOAP
- To avoid duplications and to align global and regional planning, the process for verifying the implementation of these essential services should be embedded within the methodology for the identification of deficiencies against the regional air navigation plans
- If these essential services are not being delivered, ICAO, upon request of a State, provides the necessary technical assistance to address the needs as identified within the process.
- States need to apply the implementation of the **BBBs** through their national air navigation plans as a strategic part of their national aviation planning framework.



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BBB Framework:

- ✈ METEOROLOGICAL INFORMATION
- ✈ AERONAUTICAL INFORMATION
- ✈ SEARCH AND RESCUE
- ✈ AIR TRAFFIC MANAGEMENT
- ✈ AERODROME OPERATIONS
- ✈ CNS INFRAESTRUCTURE
- ✈ BBBs & USOAP –PQs



MET References

- Annex 3: Meteorological Service for International Air Navigation
- Doc 8896: Manual of Aeronautical Meteorological Practice
- Doc 9873: Manual on the Quality Management System for the Provision of Meteorological Service to International Air Navigation
- Doc 9837: Manual on Automatic Meteorological Observing Systems at Aerodromes
- Doc 10003: Manual on the Digital Exchange of Aeronautical Meteorological Information
- Doc 9817: Manual on Low-level Wind Shear
- Doc 9691: Manual on Volcanic Ash, Radioactive Material and Toxic Chemical Clouds
- Doc 9328: Manual of Runway Visual Range Observing and Reporting Practices
- Doc 9377: Manual on Coordination between Air Traffic Services, Aeronautical Information Services and Aeronautical Meteorological Services
- Doc 9766: Handbook on the International Airways Volcano Watch (IAVW) — Operational Procedures and Contact List



AIS References

- Annex 15: Aeronautical Information Services
- Annex 4: Aeronautical Charts
- PANS-AIM (Doc 10066): Aeronautical Information Management
- PANS-OPS (Doc 8168): Aircraft Operations
- Doc 8126: Aeronautical Information Services Manual



SAR References

- Annex 11: Air Traffic Services
- Annex 12: Search and Rescue
- PANS-ATM (Doc 4444): Air Traffic Management
- Doc 9731: IAMSAR Manual - International Aeronautical and Maritime Search and Rescue Manual



ATM References

- Annex 11: Air Traffic Services
- Annex 4: Aeronautical Charts
- PANS-ATM (Doc 4444): Air Traffic Management
- PANS-OPS (Doc 8168): Aircraft Operations



AO References

- Annex 14: Aerodromes Volume I — Aerodrome Design and Operations
- Annex 10: Aeronautical Telecommunications Volume I — Radio Navigation Aids
- Doc 9157: Aerodromes Design Manual
- Doc 9184: Airport Planning Manual
- Doc 9137: Airport Services Manual
- Doc 9476: Manual of Surface Movement Guidance and Control Systems (SMGCS)
- Doc 9830: Advanced Surface Movement Guidance and Control Systems (A-SMGCS) Manual
- Doc 9870: Manual on the Prevention of Runway Incursions
- Doc 8071: Manual on Testing of Radio Navigation Aids
- Doc 9774: Manual on Certification of Aerodromes
- PANS-Aerodromes(Doc 9981): Aerodromes



BBBs & USOAP –PQs

BBB Area	BBBs	CE	PQ NUMBER	PQ
ATM	ATM-GENERIC	CE-6	7.075	Does the State ensure the establishment and provision of ATS in accordance with the provisions of Annex 11?
ATM	ATM-GENERIC	CE-6	7.085	Does the State ensure that the service provider responsible for the air traffic service (ATS) has developed and implemented policies and procedures to enable recruitment and retention of appropriately qualified and experienced ATS staff?
ATM	AIRSPACE MANAGEMENT; PROCEDURE DESIGN	CE-7	7.109	If the State has initiated the implementation of performance-based navigation (PBN), are the prescribed navigation specifications appropriate to the level of communications, navigation and air traffic services?
ATM	ROUTE STRUCTURE	CE-6	7.110	Does the State ensure that ATS routes and significant points are established and designated in accordance with the requirements of Annex 11?
ATM	ALL SEPARATION	CE-6	7.111	Does the State ensure that separation minima are applied in accordance with Procedures for Air Navigation Services – Air Traffic Management (PANS-ATM) and Regional Supplementary Procedures (SUPPS)?
ATM	GROUND CONTROL	CE-6	7.121	Does the State ensure that procedures are established and implemented to control the movement of persons and vehicles on the manoeuvring area of the aerodrome?
ATM	ALL COORDINATION	CE-6	7.131	Does the State ensure that policies and procedures are established and implemented for: a) coordination between air traffic service (ATS) and other entities*, and b) coordination of activities potentially hazardous to civil aircraft? *Entities refer to operators, military authorities and AIS.
ATM	ATS-GENERIC	CE-6	7.133	Does the State ensure compliance with communications requirements of Annex 11?
ATM	ATM-GENERIC	CE-6	7.153	Does the State ensure that contingency plans have been developed and implemented in the event of disruption or potential disruption of air traffic service (ATS) or related supporting services?
ATM	ALERT SERVICE	CE-6	7.151	Does the State ensure that procedures have been established and implemented to provide service to aircraft in the event of emergency?
ATM	ATS-GENERIC	CE-6	7.155	Does the State ensure that the ATS provider has established and implemented procedures to provide assistance in the event of in-flight contingencies?
ATM	ATS-GENERIC	CE-6	7.158	Does the State ensure that procedures are established and implemented for air-ground radio communications failure?
ATM	ATC-GENERIC	CE-6	7.159	Does the State ensure that Air Traffic Control (ATC) contingency procedures are established and implemented?
ATM	ATS-GENERIC	CE-6	7.162	If data link services are provided, does the State ensure that relevant procedures are established and implemented?
ATM	TWR-ATC	CE-6	7.189	Does the State ensure that a runway safety programme is established and implemented?
ATM	ATC-GENERIC	CE-7	7.081	Does the State ensure that the ATS provider assesses and declares the ATC capacity?
ATM	ATS-GENERIC	CE-7	7.087	Does the State ensure that the air traffic controllers and other ATS staff of the ATS provider are adequately trained?
ATM	ATS-GENERIC	CE-7	7.101	Does the State ensure that a system has been established and implemented for the recording and retention of the air traffic service (ATS) data?



ATM	ACC	CE-7	7.117	Does the State ensure that monitoring mechanisms for RVSM are established and implemented for the collection of large height deviations and coordination failures and subsequent reporting to the regional monitoring agency (RMA)?
ATM	ATS-GENERIC	CE-7	7.119	Does the State ensure that the ATS provider conducts regular and systematic reviews of: a) standard phraseology; and b) compliance with Annex 11 requirements for readback?
ATM	MET INFORMATION	CE-7	7.135	Does the State ensure that MET information is supplied promptly to flight information centres, area control centres, approach control units, aerodrome control towers, and communication stations?
ATM	OPERATIONAL INFORMATION	CE-7	7.137	Does the State ensure that information on aerodrome conditions and the operational status of associated facilities is provided to the aerodrome control tower and unit providing approach control services?
ATM	OPERATIONAL INFORMATION	CE-7	7.139	Does the State ensure that information on the operational status of navigation aids is promptly forwarded to appropriate air traffic service (ATS) units?
ATM	ATM-GENERIC	CE-7	7.177	Does the State ensure that the service provider carries out safety risk assessments, with respect to safety-related changes to the ATS system?
ATM	ATM-GENERIC	CE-7	7.183	Does the State ensure that safety reviews are conducted on a regular and systematic basis by the ATS service provider?
ATM	ATM-GENERIC	CE-7	7.185	Does the State ensure that the ATS provider has appropriately qualified personnel to conduct safety reviews?
ATM	ATS-GENERIC	CE-7	7.187	Does the State ensure that the ATS provider systematically reviews safety-related reports (including air traffic incident reports)?
ATM	ATS-GENERIC	CE-7	7.195	Does the State ensure that the air traffic control service provider complies with the Fatigue Management Regulations
ATM	ATM-PROCEDURE DESIGN	CE-6	7.229	Does the State ensure that appropriate minimum qualification requirements for flight procedure designers are met?
ATM	ATM-PROCEDURE DESIGN	CE-6	7.253	Does the State ensure that flight procedures are in accordance with the criteria promulgated by the State?
ATM	ATM-PROCEDURE DESIGN	CE-6	7.247	Does the State ensure that all instrument flight procedures (IFPs) comply with measures that control the quality of the process (including obstacles check)?
ATM	ATM-PROCEDURE DESIGN	CE-6	7.249	Does the State ensure that the IFPDS provider publishes obstacle clearance altitude/height (OCA/H)?
ATM	ATM-PROCEDURE DESIGN	CE-7	7.234	Does the State ensure that instrument flight procedures are reviewed periodically (including validation) to ensure that they continue to comply with changing criteria and meet user requirements?
ATM	ATM-PROCEDURE DESIGN	CE-7	7.243	Does the State ensure that the flight procedure designers of the service providers are properly trained for their assigned functions and tasks?
ATM	ATM-PROCEDURE DESIGN	CE-7	7.255	Does the State ensure that instrument flight procedure design service (IFPDS) providers retain all procedure design documentation, so as to allow any data anomalies or errors found during the production, maintenance or operational use of the procedure to be corrected?
AIS	AIS GENERIC	CE-6	7.288	Has the State arranged for the establishment and provision of AIS in accordance with Annex 15 provisions?
AIS	AERONAUTICAL CHARTING SERVICE	CE-6	7.321	Does the State ensure the availability of charts either by producing the charts itself or by arranging for its production by another Contracting State or by an agency?



AIS	AIS GENERIC	CE-6	7.291	Does the State ensure that formal arrangements are established between the originators of aeronautical data and information and the AIS on the timely and complete provision of aeronautical data and information?
AIS	AIS GENERIC	CE-7	7.303	Does the State ensure that the technical staff of AIS and cartographic service providers' personnel possess the competencies required to perform the assigned functions and tasks?
AIS	AIS GENERIC	CE-7	7.267	Does the State ensure that the AIS has implemented and maintained a quality management system (QMS)?
AIS	AIS GENERIC	CE-7	7.311	Does the State ensure that aeronautical data and information are provided in accordance with the data quality specifications?
AIS	AERONAUTICAL INFORMATION PUBLICATION SERVICE	CE-7	7.309	Does the State ensure that the Aeronautical Information Regulation and Control (AIRAC) system is used to notify the establishment, withdrawal and premeditated significant changes of circumstances?
AIS	AERONAUTICAL CHARTING SERVICE	CE-7	7.363	Does the State ensure that the charts, which are applicable in the State, are available and went through a validation and verification process?
AIS	AIS GENERIC	CE-7	7.361	Has the State taken reasonable measures to ensure that the information that it provides and the aeronautical charts made available are comprehensive and accurate and that they are maintained up to date by a revision service?
CNS	ALL BBBs	CE-6	7.392	Has the State established systems and facilities to operate and maintain aeronautical CNS services in accordance with the Standards in Annex 10? Does the State ensure that the maintenance and operation of CNS systems and facilities comply with Annex 10 provisions?
CNS	CNS GENERIC	CE-7	7.403	Does the State ensure that the technical staff of the entity operating CNS systems are properly trained for their assigned functions and tasks?
CNS	AO-RADIO NAVIGATION AIDS	CE-7	7.393	Does the State ensure that requirements for flight inspection are established and periodical flight inspections are provided for radio navigation aids?
MET	MET GENERIC	CE-6	7.412	Has the State designated a meteorological authority to provide or made arrangements for the provision of MET services in accordance with Annex 3?
MET	MET AMO MWO	CE-6	7.415	Does the State ensure that an agreement has been established between ATS and MET services providers?
MET	MET OBSERVATIONS AND REPORTS	CE-6	7.459	Does the State ensure that the wind sensors for local routine reports are appropriately sited to give the best practicable indication of conditions along the runway/touchdown zone?
MET	MET OBSERVATIONS AND REPORTS	CE-6	7.467	Does the State ensure that the MET service provider has established criteria for special observations and reports?
MET	AERODROME METEOROLOGICAL WARNINGS	CE-7	7.465	Does the State ensure that MET offices issue wind shear warnings for aerodromes where wind shear is considered as a safety factor?
MET	MET GENERIC	CE-7	7.451	Does the State ensure that the entity providing the MET service has established a properly organized quality system?
MET	SIGMET	CE-7	7.461	Does the State ensure that SIGMETs are issued in accordance with Annex 3 provisions?
MET	AIREP	CE-7	7.463	Does the State ensure that provisions related to special air-reports, including those for volcanic ash, are followed with respect to their relay to the relevant MET offices?
MET	MET OBSERVATIONS AND REPORTS; METAR/SPECI; TAF; SIGMET; AIRMET; AERO. MET. WARNINGS	CE-7	7.475	Does the State ensure that meteorological reports are issued in accordance with the related technical specifications outlined in Annex 3?
MET	MET GENERIC	CE-7	7.476	Does the State ensure that the meteorological personnel providing service for international air navigation comply with the requirements of the World Meteorological Organization (WMO) in respect of qualifications, competencies and education?



AO	OPERATIONAL AREA MANAGEMENT; SAFETY MANAGEMENT	CE-6	8.144	Does the State ensure that personnel assessing and reporting runway surface conditions are trained and competent to perform their duties?
AO	OPERATIONAL AREA MANAGEMENT; SAFETY MANAGEMENT	CE-6	8.145	Does the State ensure that aerodrome operators establish and implement procedures to assess and report runway surface condition through a runway condition code (RWYCC) and a description using the appropriate terms?
AO	OPERATIONAL AREA MANAGEMENT; SAFETY MANAGEMENT	CE-7	8.147	Does the State ensure that aerodrome operators have a process for determining and providing relevant information that a runway, or part of, may be slippery wet, and when the friction level of a paved runway or portion thereof is less than the minimum friction level specified by the State?
AO	DISABLE AIRCRAFT REMOVAL	CE-6	8.151	Does the State ensure that aerodrome operators provide contact information and aerodrome's capability for the removal of disabled aircraft?
AO	RESCUE AND FIREFIGHTING; SAFETY MANAGEMENT	CE-6	8.153	Does the State ensure that aerodrome operators provide information concerning the level of protection available at an aerodrome for aircraft rescue and fire fighting (RFF) purposes?
AO	RESCUE AND FIREFIGHTING; SAFETY MANAGEMENT	CE-7	8.155	Does the State ensure that aerodrome operators notify changes in the level of aircraft rescue and fire fighting (RFF) protection normally available at an aerodrome to air traffic service (ATS) and AIS?
AO	OPERATIONAL AREA MANAGEMENT; SAFETY MANAGEMENT	CE-6	8.157	Does the State ensure that aerodrome operators make available information about visual approach slope indicator system installations?
AO	RUNWAYS; SAFETY MANAGEMENT	CE-6	8.163	Does the State require and ensure the provision of runway end safety areas (RESA) at aerodromes?
AO	SAFETY MANAGEMENT	CE-7	8.171	Whenever a change to the aerodrome physical characteristics, facilities or equipment is proposed, does the aerodrome regulatory authority ensure that the aerodrome operator has a procedure for evaluating the impact of this change on the safety of the existing operation?
AO	ELECTRICAL SYSTEMS; AERODROME MAINTENANCE	CE-6	8.173	Does the State ensure that aerodrome operators comply with regulations for the provision of primary and secondary power supplies?
AO	ELECTRICAL SYSTEMS; AERODROME MAINTENANCE	CE-6	8.175	If the aerodrome operators use runways when runway visual ranges are less than 550 m, does the State ensure that the electrical systems are designed so that an equipment failure will not leave the pilot with inadequate visual guidance?
AO	ELECTRICAL SYSTEMS	CE-6	8.177	Where a runway forming part of a standard taxi-route is provided with runway lighting and taxiway lighting, does the State ensure that aerodrome electrical systems are interlocked to preclude the possibility of simultaneous operation of both forms of lighting?
AO	VISUAL AIDS; ELECTRICAL SYSTEMS; OPERATIONAL AREA MANAGEMENT	CE-6	8.179	Does the State ensure that aerodrome operators have a method to monitor lighting system reliability and indicate any fault, appropriate to the type and level of operations?
AO	FENCING	CE-6	8.183	Does the State ensure that aerodrome operators comply with regulations for providing a fence or suitable barriers to aerodromes and off-aerodrome ground installations and facilities, including sewers, ducts and tunnels as well as the requirements for the lighting of security fences and barriers?
AO	RUNWAYS; VISUAL AIDS; CONTROL OF OBSTACLES	CE-6	8.191	Does the State ensure that aerodrome operators comply with the frangibility and height restriction requirements for equipment or installations located near or on a runway, on the non-graded portion of a runway strip, on precision approach runways, or for obstacles of operational significance?
AO	VISUAL AIDS; ELECTRICAL SYSTEMS	CE-6	8.201	Does the aerodrome certification process include an assessment of the aerodrome visual aids (e.g. lights, markings, markers and signs) and electrical systems?
AO	SAFETY MANAGEMENT	CE-6	8.204	Does the State ensure that aerodrome operators comply with regulations related to runway safety, including the establishment of a runway safety team?



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AO	OPERATIONAL AREA MANAGEMENT	CE-6	8.209	Does the State ensure that aerodrome operators comply with the regulations for the provision of a surface movement guidance and control system (SMGCS) and that signs shall be provided to convey a mandatory instruction, information on a specific location or destination on a movement area?
AO	VISUAL AIDS	CE-6	8.211	Does the State ensure that stop bars are installed in accordance with the requirements and controlled by ATIS?
AO	VISUAL AIDS	CE-6	8.215	At aerodromes where selective switching of stop bars and taxiway centre line lights is used for surface movement guidance and control system (SMGCS), does the State ensure the implementation of the requirements in accordance with ICAO Standards?
AO	OPERATIONAL AREA MANAGEMENT	CE-6	8.221	Does the State ensure that an aerodrome's surface movement guidance and control system (SMGCS) is designed to assist in the prevention of inadvertent incursions of aircraft and vehicles onto an active runway or taxiway, and collisions on any part of the movement area?
AO	CONTROL OF OBSTACLES; SAFETY MANAGEMENT	CE-7	8.223	Does the State ensure that aerodrome operators/competent State authority comply with regulations relating to marking and lighting obstacles, both on the aerodrome and in the vicinity of aerodromes, which could otherwise present a hazard to aircraft?
AO	OPERATIONAL AREA MANAGEMENT; SAFETY MANAGEMENT	CE-6	8.225	Does the State ensure that aerodrome operators develop and implement procedures to mark permanent and temporary movement area closures and meet location and characteristic specifications?
AO	RUNWAYS; TAXIWAYS; APRONS	CE-6	8.227	Does the State ensure that aerodrome operators use taxi side stripe markings on taxiways, runway turn pads, holding bays and aprons in order to distinguish non-load-bearing surfaces and unserviceable areas from load-bearing areas?
AO	SAFETY MANAGEMENT	CE-7	8.233	Does the State ensure that aerodrome operators/competent State authority comply with regulations on the requirement to extinguish, screen or otherwise modify non-aeronautical lights which could present a hazard to aircraft safety?
AO	VISUAL AIDS; ELECTRICAL SYSTEMS	CE-6	8.235	Does the State ensure that aerodrome operators comply with regulations related to the control of lighting intensity?
AO	VISUAL AIDS; ELECTRICAL SYSTEMS; OPERATIONAL AREA MANAGEMENT	CE-6	8.239	If the aerodrome uses the 30 m spacing option for the provision of runway centre line lights, does the State ensure the implementation of requirements which specify related maintenance objectives and which call for a demonstration of conformance with them?
AO	VISUAL AIDS	CE-6	8.245	Does the State ensure the implementation of requirements for the provision of visual docking guidance systems, in accordance with Annex 14, Vol I specifications, including evaluation, location, characteristic specifications, and azimuth and stopping guidance?
AO	AERODROME MAINTENANCE	CE-6	8.251	Does the State ensure that aerodrome operators develop and implement aerodrome maintenance programmes at all aerodromes in the interests of safety, efficiency and regularity of aircraft operations?
AO	AERODROME MAINTENANCE	CE-6	8.253	Does the State ensure that the aerodrome operators' maintenance programme include precautions for runway, taxiway and apron pavements and taxiway shoulders in relation to surface debris and regularity?
AO	AERODROME MAINTENANCE	CE-7	8.257	Has the State established and implemented a mechanism to ensure that aerodrome operators maintain good friction characteristics and low rolling resistance on runways?
AO	AERODROME MAINTENANCE; VISUAL AIDS	CE-6	8.259	Does the State ensure that aerodrome operators: a) define maintenance performance level objectives for visual aids as part of their preventive maintenance programme, and b) restrict construction or maintenance activities in the proximity of aerodrome electrical systems during low visibility operations?
AO	CONTROL OF OBSTACLES	CE-7	8.273	Does the State ensure that aerodrome operators implement the requirements that runway strips are free of objects unless they are needed for air navigation purposes and meet fragility requirements?



AO	CONTROL OF OBSTACLES	CE-7	8.277	Does the State ensure the implementation of requirements relating to the group of obstacle limitation surfaces (OLS) at and around aerodromes?
AO	CONTROL OF OBSTACLES; VISUAL AIDS	CE-7	8.279	Has the State established and implemented a process to ensure that the siting or performance of visual and non-visual aids to navigation is not adversely affected by objects under the approach surface?
AO	OPERATIONAL AREA MANAGEMENT	CE-6	8.287	Does the State ensure that aerodrome operators control the use of vehicles on aerodromes, including the restriction on the use of airside roads?
AO	EMERGENCY PLANNING	CE-6	8.291	Does the State ensure that aerodrome operators/competent State authority develop emergency plans, including appropriate cooperation and coordination with other entities involved in the provision of emergency services and the development of the plans?
AO	EMERGENCY PLANNING	CE-7	8.293	Does the State ensure compliance with requirements for the periodic testing and review of aerodrome emergency plans?
AO	EMERGENCY PLANNING; RESCUE AND FIREFIGHTING	CE-6	8.297	Does the State ensure the implementation of requirements for the availability and coordination of specialist rescue services to be included in the emergency plans of aerodromes close to water, swampy areas or difficult terrain?
AO	EMERGENCY PLANNING	CE-6	8.299	Does the State ensure the implementation of requirements for the establishment and manning of emergency operations centres and mobile command posts, and for communication between them?
AO	RESCUE AND FIREFIGHTING	CE-7	8.301	Does the State ensure the implementation of requirements for the provision of rescue and fire fighting (RFF) services at all aerodromes, which takes into account the aerodrome location and the surrounding terrain?
AO	RESCUE AND FIREFIGHTING	CE-7	8.305	Has the State established and ensured implementation of rescue and fire fighting (RFF) extinguishing agent specifications, including quantities and discharge rates?
AO	RESCUE AND FIREFIGHTING	CE-7	8.307	Has the State promulgated and ensured implementation of regulations prescribing the minimum number of rescue and fire fighting (RFF) vehicles, together with the associated building facilities and their location?
AO	RESCUE AND FIREFIGHTING	CE-6	8.309	Does the State ensure that aerodrome operators provide a discrete communication system and an alerting system among vehicles, fire stations and aerodrome control towers?
AO	RESCUE AND FIREFIGHTING	CE-7	8.311	Has the State established and implemented a mechanism to ensure the implementation of requirements for minimum response times by the rescue and fire fighting (RFF) services?
AO	EMERGENCY PLANNING	CE-6	8.313	Does the State ensure that emergency access roads are provided at aerodromes?
AO	RESCUE AND FIREFIGHTING	CE-7	8.315	Does the State ensure that aerodrome operators provide training for fire fighting personnel, including live fire drills?
AO	RESCUE AND FIREFIGHTING	CE-7	8.317	Does the State ensure that all responding fire fighting personnel are equipped with the necessary protective clothing and respiratory equipment?
AO	RESCUE AND FIREFIGHTING	CE-7	8.319	Does the State ensure that there are sufficient trained personnel to operate all the necessary RFF equipment at maximum capacity, meet the minimum response times and maintain continuous agent application at the appropriate rate?
AO	DISABLE AIRCRAFT REMOVAL	CE-6	8.321	Does the State ensure that the aerodrome has plans for the removal of disabled aircraft, including arrangements for designation of coordinators, the rapid availability and deployment of salvage and removal equipment between aerodromes, and the protection of evidence, custody and the removal of aircraft in accordance with Annex 13?
AO	AERODROME MAINTENANCE	CE-6	8.323	Does the State ensure that aerodrome operators establish and implement procedures for the timely removal of contaminants?
AO	WILDLIFE STRIKE HAZARD REDUCTION	CE-6	8.331	Does the State ensure that aerodrome operators take appropriate action to decrease the hazard of wildlife strikes?



AO	OPERATIONAL AREA MANAGEMENT	CE-7	8.341	If an apron management service is not provided, does the State ensure the safety of aircraft operations on apron areas, considering the movement of vehicles?
AO	OPERATIONAL AREA MANAGEMENT	CE-6	8.345	Does the State ensure that aerodrome operators restrict the operation of personnel and vehicles on an apron during low visibility operations?
AO	OPERATIONAL AREA MANAGEMENT	CE-6	8.347	Does the State ensure that aerodrome operators provide for visual monitoring of aircraft stand clearances and the control of vehicle movement on aprons?
AO	GROUND SERVICING OF AIRCRAFT	CE-7	8.349	Has the State established and implemented a mechanism to ensure the availability of fire extinguishing equipment and trained personnel during ground servicing of aircraft?
AO	SAFETY MANAGEMENT	CE-6	8.365	Has the State promulgated and ensured implementation of a regulation to require aerodrome operators to ensure that organizations performing activities at the aerodrome comply with the aerodrome safety requirements?
AO	SAFETY MANAGEMENT	CE-7	8.375	Has the State established and implemented a mechanism to assess the outcomes of the conduct of risk assessments or aeronautical studies?
AO	SAFETY MANAGEMENT; CONTROL OF OBSTACLES	CE-7	8.385	Does the State ensure the implementation of requirements for safety areas surrounding final approach and take-off areas (FATOs) for helicopters?
AO	CONTROL OF OBSTACLES	CE-7	8.387	Does the State ensure the implementation of requirements relating to the obstacle limitation surfaces (OLS) and sectors?
AO	VISUAL AIDS	CE-7	8.389	Does the State ensure the implementation of requirements for wind direction indicators and approach lighting at heliports, including characteristics and location?
AO	VISUAL AIDS	CE-7	8.393	Does the State ensure the implementation of requirements for touchdown and lift-off area lighting systems at heliports, including characteristics and location?
AO	VISUAL AIDS	CE-7	8.395	Does the State ensure the implementation of requirements for visual approach slope indicators at heliports?



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