

MATRIX ON DRAFT CIVIL AVIATION (METEOROLOGICAL SERVICE FOR AIR NAVIGATION) REGULATIONS 2022

No.		Reg. No.	Regulation Title	Stakeholder Comment	KCAA Comment	Final Regulation Text	Remarks if any
1.		11	Personnel, qualification and training	Competencies was not captured in the regulation	Not accepted as competency for personnel providing Meteorological service for air navigation was well captured	a meteorological services provider shall— a) comply with the requirements of the designated meteorological authority in respect of qualifications, competencies, education and training of meteorological personnel providing service for air navigation and other requirements as may be provided by the Authority.	Regulation 11 remains as it was
2.		12(1)	Supply, use and quality management of meteorological information	Draft to domesticate the provisions of the Annex 3 is not done in legal language	Agree with stakeholder and the sub regulation was rephrased	(1) The meteorological service provider shall maintain close liaison with the users of the meteorological information on matters affecting the provision of meteorological service for air navigation.	Regulation 12(1) was rephrased
3.		12(2)	Supply, use and quality management of meteorological information	12(2) Supply, use and quality management of meteorological information Draft to domesticate the	This was not acceptable as there is no difference between the suggested text and what had been drafted	(2) A Meteorological services provider shall establish and implements a properly organized quality system comprising of procedures, processes and resources necessary to provide for the quality	Regulation 12(2) remains as it was

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				provisions of the annex 3		management of the meteorological information to be supplied to users.	
4.		17	Volcano observatories	Regulation not drafted in legislative text format	Agrees with the stakeholder and the regulation was redrafted	1.The Authority shall arrange with the designated volcano observatories to monitor any active or potential active volcanoes and when observing: a) significant pre-eruption volcanic activity, or a cessation thereof; b) a volcanic eruption, or a cessation thereof; /or c) volcanic ash in the atmosphere: send this information as quickly as practicable to their associated ACC, MWO and VAAC.	Regulation 17 remains was rephrased
5.		PART IV	GENERAL PROVISIONS FOR METEOROLOGICAL SERVICE FOR AIR NAVIGATION	ICAO State letter-AN 10/1-23/1	AERODROME METEOROLOGICAL OBSERVATIONAL INFORMATION	2.AERODROME METEOROLOGICAL OBSERVATIONAL INFORMATION	To comply with the changes in the state letter that will come to effect by 2024 November
6.		PART VII	AIRCRAFT OBSERVATIONS AND REPORTS	ICAO State letter-AN 10/1-23/1	AIRCRAFT METEOROLOGICAL OBSERVATIONAL INFORMATIONS	AIRCRAFT METEOROLOGICAL OBSERVATIONAL INFORMATIONS	To comply with the changes in the state letter that will come

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							to effect by 2024 November
7.		PART VIII	FORECASTS	ICAO State letter-AN 10/1-23/1	AERODROME AND EN-ROUTE METEOROLOGICAL FORECASTS INFORMATION	AERODROME AND EN-ROUTE METEOROLOGICAL FORECASTS INFORMATION	To comply with the changes in the state letter that will come to effect by 2024 November
8.		PART IX	SIGMET INFORMATION, AERODROME WARNINGS AND WIND SHEAR WARNINGS AND ALERT	ICAO State letter-AN 10/1-23/1	METEOROLOGICAL INFORMATION CONTAINING ADVISORIES, ALERTS AND WARNINGS	METEOROLOGICAL INFORMATION CONTAINING ADVISORIES, ALERTS AND WARNINGS	To comply with the changes in the state letter that will come to effect by 2024 November
9.		PART XI	SERVICE FOR OPERATORS AND FLIGHT CREW MEMBERS	ICAO State letter-AN 10/1-23/1	METEOROLOGICAL SERVICE FOR OPERATORS AND FLIGHT CREW MEMBERS	METEOROLOGICAL SERVICE FOR OPERATORS AND FLIGHT CREW MEMBERS	To comply with the changes in the state letter that will come to effect by 2024 November
10.		PART XII	INFORMATION FOR AIR TRAFFIC SERVICES, SEARCH AND RESCUE SERVICES AND AERONAUTICAL INFORMATION SERVICES	ICAO State letter-AN 10/1-23/1	METEOROLOGICAL INFORMATION FOR AIR TRAFFIC SERVICES, SEARCH AND RESCUE SERVICES AND AERONAUTICAL INFORMATION SERVICES	METEOROLOGICAL INFORMATION FOR AIR TRAFFIC SERVICES, SEARCH AND RESCUE SERVICES AND AERONAUTICAL INFORMATION SERVICES	To comply with the changes in the state letter that will come to effect by 2024 November

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11.		PART XIII	REQUIREMENTS FOR AND USE OF COMMUNICATIONS	ICAO State letter-AN 10/1-23/1	USE OF COMMUNICATIONS TO EXCHANGE METEOROLOGICAL INFORMATION	USE OF COMMUNICATIONS TO EXCHANGE METEOROLOGICAL INFORMATION	To comply with the changes in the state letter that will come to effect by 2024 November
12.		Reg.2	Interpretation.	ICAO State letter-AN 10/1-23/1	"aerodrome elevation" means the elevation of the highest point of the landing area;	Deleted	To comply with the changes in the state letter that will come to effect by 2024 November
13.		Reg.2	Interpretation.	ICAO State letter-AN 10/1-23/1	"area navigation (RNAV)" means a method of navigation which permits aircraft operations on any desired flight path within the coverage of ground- or space-based navigation aids or within the limits of the capability of self-contained aids, or a combination of these.	Deleted	To comply with the changes in the state letter that will come to effect by 2024 November
14.		Reg.2	Interpretation.	ICAO State letter-AN 10/1-23/1	"elevation" means the vertical distance of a point or a level, on or affixed to the	Deleted	To comply with the changes in the state letter that will come

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					surface of the earth, measured from mean sea level;		to effect by 2024 November
15.		Reg.2	Interpretation.	ICAO State letter-AN 10/1-23/1	“extended range operation” means any flight by an aeroplane with two turbine engines where the flight time at the one engine inoperative cruise speed (in International Standards Aerodrome and still air conditions), from a point on the route to an adequate alternate aerodrome, is greater than the threshold time approved by the state of the operator;	Deleted	To comply with the changes in the state letter that will come to effect by 2024 November
16.		Reg.2	Interpretation.	ICAO State letter-AN 10/1-23/1	“minimum sector altitude” means the lowest altitude which may be used which will provide a minimum clearance of 300M (1,000 feet)	“minimum sector altitude” means the lowest altitude which may be used which will provide a minimum clearance of 300M (1,000 feet) above all objects located in an area contained within a	To comply with the changes in the state letter that will come to effect by 2024 November

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					above all objects located in an area contained within a sector of a circle of 46 km (25 NM) radius centred on a radio aid to navigation;	sector of a circle of 46 km (25 NM) radius centred on a significant point, the aerodrome reference point (ARP) or the heliport reference point (HRP)	
17.		Reg.2	Interpretation.	ICAO State letter-AN 10/1-23/1	“navigation specification” means a set of aircraft and flight crew requirements needed to support performance-based navigation operations within a defined airspace. There are two kinds of navigation specifications—— “required navigation performance (RNP) specification” means a navigation specification based on area navigation that includes the	Deleted	To comply with the changes in the state letter that will come to effect by 2024 November

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					requirement for performance monitoring and alerting, designated by the prefix RNP such as RNP 4, RNP APCH “Area navigation (RNAV) specification” means a navigation specification based on area navigation that does not include the requirement for performance monitoring and alerting, designated by the prefix RNAV, such as RNAV 5, RNAV		
18.		Reg.2	Interpretation.	ICAO State letter-AN 10/1-23/1	“operational planning” means the planning of flight operations by an operator;	Deleted	To comply with the changes in the state letter that will come to effect by 2024 November

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19.		Reg.2	Interpretation.	ICAO State letter-AN 10/1-23/1	"performance-based navigation (PBN)" means Area navigation based on performance requirements for aircraft operating along an ATS route, on an instrument approach procedure or in a designated airspace;	Deleted	To comply with the changes in the state letter that will come to effect by 2024 November
20.		Reg.2	Interpretation.	ICAO State letter-AN 10/1-23/1	"reporting point" means a specified geographical location in relation to which the position of an aircraft can be reported;	Deleted	To comply with the changes in the state letter that will come to effect by 2024 November
21.		Reg.2	Interpretation.	ICAO State letter-AN 10/1-23/1	"standard isobaric surface" means an isobaric surface used on a worldwide basis for representing and analyzing the conditions in the atmosphere;	Deleted	To comply with the changes in the state letter that will come to effect by 2024 November
22.		Reg. 16(4)	Meteorological watch offices.	ICAO State letter-AN 10/1-23/1	The Meteorological Watch Office (MWO) shall	The Meteorological Watch Office (MWO) shall coordinate the content of SIGMET information and	New sub-regulation to comply with the

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				New	coordinate the content of SIGMET information and the provision of harmonized SIGMET information with neighbouring MWO(s), especially when the en-route weather phenomenon extends or is expected to extend beyond the MWO's specified area of responsibility, in order to ensure the provision of harmonized SIGMET	the provision of harmonized SIGMET information with neighbouring MWO(s), especially when the en-route weather phenomenon extends or is expected to extend beyond the MWO's specified area of responsibility, in order to ensure the provision of harmonized SIGMET	changes in the state letter that will come to effect by 2024 November
23.		Reg. 19(6)	Aeronautical meteorological stations and observations	ICAO State letter-AN 10/1-23/1 New	The meteorological instruments used at an aerodrome shall be situated in such a way as to supply data which are representative of the area for which the measurements are required.	The meteorological instruments used at an aerodrome shall be situated in such a way as to supply data which are representative of the area for which the measurements are required.	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November
24.		Reg. 19(7)	Aeronautical meteorological	ICAO State letter-AN 10/1-23/1	Meteorological instruments at aeronautical	Meteorological instruments at aeronautical meteorological stations shall be exposed, operated and maintained in	New sub-regulation to comply with the

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			stations and observations	New	meteorological stations shall be exposed, operated and maintained in accordance with the practices, procedures and specifications promulgated by the World Meteorological Organization (WMO).	accordance with the practices, procedures and specifications promulgated by the World Meteorological Organization (WMO).	changes in the state letter that will come to effect by 2024 November
25.		Reg. 19(8)	Aeronautical meteorological stations and observations	ICAO State letter-AN 10/1-23/1 New	The observers at an aerodrome shall be located, in so far as is practicable, so as to supply data which are representative of the area for which the observations are required.	The observers at an aerodrome shall be located, in so far as is practicable, so as to supply data which are representative of the area for which the observations are required.	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November
26.		Reg. 19(15)	Aeronautical meteorological stations and observations	ICAO State letter-AN 10/1-23/1 New	Where automated equipment forms part of an integrated semi-automatic observing system, displays of data which are made available to the local air traffic services	Where automated equipment forms part of an integrated semi-automatic observing system, displays of data which are made available to the local air traffic services units shall be a subset of and displayed parallel to those available in the local meteorological service unit.	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November

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					units shall be a subset of and displayed parallel to those available in the local meteorological service unit.		
27.		Reg. 19(16)	Aeronautical meteorological stations and observations	ICAO State letter-AN 10/1-23/1 New	The displays in sub regulation (15) above, each meteorological element shall be annotated to identify, as appropriate, the locations for which the element is representative.	The displays in sub regulation (15) above, each meteorological element shall be annotated to identify, as appropriate, the locations for which the element is representative.	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November
28.		Reg.23	Characteristics of meteorological reports	ICAO State letter-AN 10/1-23/1 New	Special observations and reports.	Characteristics of meteorological reports	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November
29.		23(1)	Characteristics of meteorological reports	ICAO State letter-AN 10/1-23/1 New	(1) Local routine, special reports, METAR and SPECI shall contain the following elements	(1) Local routine, special reports, METAR and SPECI shall contain the following meteorological elements — (a) (b)	Deleted (a) to (d) for New sub-regulation to comply with the changes in the state letter

No.		Reg. No.	Regulation Title	Stakeholder Comment	KCAA Comment	Final Regulation Text	Remarks if any
					in the order indicated——	(c)	that will come to effect by 2024 November
					identification of the type of report;	(d)	
					location indicator;	(e) surface wind direction and speed;	
					time of the observation;	(f) visibility;	
					identification of an automated or missing report, when applicable;	(g) runway visual range, when applicable;	
					surface wind direction and speed;	(h) present weather;	
					visibility;	(i) cloud amount, cloud type (only for cumulonimbus and towering cumulus clouds) and height of cloud base or, where measured, vertical visibility;	
						(j) air temperature and dew-point temperature; and	
						(k) QNH and, when applicable, QFE (QFE included only in local routine and special reports).	
						(2) In addition to elements listed under sub-regulations (1)	

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					runway visual range, when applicable; present weather; cloud amount, cloud type (only for cumulonimbus and towering cumulus clouds) and height of cloud base or, where measured, vertical visibility; air temperature and dew-point temperature; and QNH and, when applicable, QFE (QFE included only in	above, local routine and special reports and METAR and SPECI shall contain supplementary information to be placed after element referred to under sub-regulation (1)(g).	

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					local routine and special reports). (2) In addition to elements listed under sub-regulations (1) above, local routine and special reports and METAR and SPECI shall contain supplementary information to be placed after element referred to under sub-regulation (1)(k).		
30.		Reg.24(12)	Observing and reporting meteorological elements.	ICAO State letter-AN 10/1-23/1 New	(12) The present weather occurring at the aerodrome shall be observed and reported as necessary for at least a minimum of rain, drizzle, (including intensity thereof), haze, mist, fog, and thunderstorms	12) The present weather occurring at the aerodrome shall be observed and reported as necessary for at least a minimum of Precipitation: rain, drizzle, (including intensity thereof),) Obscuration: haze, mist, fog, and thunderstorms (including thunderstorms in the vicinity).	clarifications to comply with the changes in the state letter that will come to effect by 2024 November

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				(including thunderstorms in the vicinity).		
31.	Reg.26	Observations and reports of volcanic activity.	ICAO State letter-AN 10/1-23/1 New	Observations and reports of volcanic activity.	Observing and reporting volcanic activity.	clarification
32.	Reg.27	Dissemination of meteorological reports	ICAO State letter-AN 10/1-23/1 New	New	27 (1)(a) METAR and SPECI shall be disseminated to – (i) international OPMET databanks and the centres designated by regional air navigation agreement for the operation of aeronautical fixed service Internet-based services, in accordance with regional air navigation agreement. (ii) other aerodromes in accordance with regional air navigation agreement. (b)SPECI representing a deterioration in conditions shall be disseminated immediately after observation. A SPECI representing a deterioration of one weather element and an improvement in another element shall be disseminated immediately after the observation. (c) SPECI representing an improvement in conditions shall be disseminated only after the improvement has been maintained for 10	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November

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						minutes; it should be amended before dissemination, if necessary, to indicate the conditions prevailing at the end of that 10-minute period. (2)(a) Local routine reports shall be transmitted to- (i) local air traffic services units and shall be made available to the operators and to other users at aerodrome (ii) local air traffic services units as soon as the specified conditions occur. However, as agreed between the meteorological authority and the appropriate ATS authority, they need not be issued in respect of: (a) any element for which there is in the local air traffic services unit a display corresponding to the one in the meteorological station, and where arrangements are in force for the use of this display to update information included in local routine and special reports; and (b) runway visual range, when all changes of one or more steps on the reporting scale in use are being reported to the local air traffic services unit by an observer on the aerodrome. 2(b) Local special reports shall also be made	

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						available to the operators and to other users at the aerodrome	
33.		Reg.32	Other non-routine aircraft observations	ICAO State letter-AN 10/1-23/1 New	Other non-routine aircraft observations	Other non-routine aircraft observations and reports	Add and reports to make it clearer
34.		Reg.33	Reporting of aircraft observations during flight.	ICAO State letter-AN 10/1-23/1 New	Reporting of aircraft observations during flight.	Reporting of aircraft observations	Deleted during flight
35.		Reg.33(3)	Reporting of aircraft observations	ICAO State letter-AN 10/1-23/1 New	New	(3) Routine and special aircraft observations shall be reported as routine and special air-reports, respectively. Routine and special air-reports reported by air-ground data link shall contain, as a minimum, the following meteorological information: a)wind direction; b)wind speed; c)air temperature; and d)condition prompting the issuance of the air-report (only applicable for special air-reports).	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November
36.		Reg.34(2)	Relay of air-reports by air traffic services units.	ICAO State letter-AN 10/1-23/1 New	New	The meteorological authority shall make arrangements with the appropriate ATS authority to ensure that: (a) special air-reports be uplinked for 60 minutes after their issuance; and (b) information on wind and temperature included in automated special air-reports not	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November

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						be uplinked to other aircraft in flight	
37.		Reg.35	Dissemination of air-reports	ICAO State letter-AN 10/1-23/1 New	new	35. (1) The meteorological watch office shall transmit without delay the special air-reports received by voice communications to the world area forecast centres (WAFCs) and the centres designated by regional air navigation agreement for the operation of aeronautical fixed service Internet-based services. (2) The meteorological watch office shall transmit without delay special air-reports of pre-eruption volcanic activity, a volcanic eruption or volcanic ash cloud received to the associated volcanic ash advisory centres. (3) When a special air-report is received at the meteorological watch office but the forecaster considers that the phenomenon causing the report is not expected to persist and, therefore, does not warrant issuance of a SIGMET, the special air-report shall be disseminated in the same way that SIGMET information is disseminated in accordance with sub regulation 35(1) above to meteorological watch offices, WAFCs, and other meteorological offices in accordance with regional air navigation agreement..	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November

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						(4) Where supplementary dissemination of air-reports is required to satisfy special aeronautical or meteorological requirements, such dissemination shall be arranged and agreed between the meteorological authorities concerned. (5) Air-reports shall be exchanged in the format in which they are received.	
38.		Reg.37(3)	Aerodrome forecasts	ICAO State letter-AN 10/1-23/1 New	(3) Aerodrome forecasts and amendments thereto shall be issued as Terminal Aerodrome Forecast (TAF) and include the following information in the order indicated—— identification of the type of forecast; location indicator; time of issue of forecast;	(3) Aerodrome forecasts and amendments thereto shall be issued as Terminal Aerodrome Forecast (TAF) and include the following meteorological information — (a) (b) (c) (d) (e) (f) 1)surface wind; 2)visibility; 3)weather;	Deleted (a) to (f)

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					identification of a missing forecast, when applicable; date and period of validity of forecast; identification of a cancelled forecast, when applicable; surface wind; visibility; weather; cloud; and expected significant changes to one or more of these elements during the period of validity.	4)cloud; and 5)expected significant changes to one or more of these elements during the period of validity.	
39.		Reg.37(8)	Aerodrome forecasts	ICAO State letter-AN 10/1-23/1 New	new	(8) When issuing TAF, aerodrome meteorological offices shall ensure that not more than one TAF is valid at an aerodrome at any given time	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November

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40.		Reg.37(9)	Aerodrome forecasts	ICAO State letter-AN 10/1-23/1 New	new	(9) TAF and amendments thereto shall be disseminated to international OPMET databanks and the centres designated by regional air navigation agreement for the operation of aeronautical fixed service Internet-based services, in accordance with regional air navigation agreement	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November
41.		Reg.38	Landing forecasts	ICAO State letter-AN 10/1-23/1 New	Landing forecasts	Landing forecasts (TREND)	clarification
42.		Reg.38(4)	Landing forecasts	ICAO State letter-AN 10/1-23/1 New	new	(4) The units and scales used in the trend forecast shall be the same as those used in the report to which it is appended	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November
43.		Reg.40	Area forecasts for low-level flights.	ICAO State letter-AN 10/1-23/1 New	Area forecasts for low-level flights	Area forecasts for low-level flights (GAMET, forecasts in chart form)	clarification
44.		Reg.40(4)	Area forecasts for low-level flights (GAMET, forecasts in chart form)	ICAO State letter-AN 10/1-23/1 New	new	(4) Area forecasts for low-level flights prepared in support of the issuance of AIRMET information shall be exchanged between aerodrome meteorological offices and/or meteorological watch offices responsible for the issuance of flight documentation for low-	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November

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						level flights in the flight information regions concerned.	
45.		Reg.40(5)	Area forecasts for low-level flights (GAMET, forecasts in chart form)	ICAO State letter-AN 10/1-23/1 New	new	(5) Area forecasts for low-level flights prepared in support of the issuance of AIRMET information should be disseminated to the aeronautical fixed service Internet-based services	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November
46.		Reg.41	Volcanic ash advisory information and information from State volcano observatory	ICAO State letter-AN 10/1-23/1 New	new	41. Information shall be issued by volcano observatory on: a)significant pre-eruption volcanic activity; b)volcanic eruptions; and c)volcanic eruption cessation	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November
47.		Reg.42(2)	SIGMET information	ICAO State letter-AN 10/1-23/1 New	(2) SIGMET information shall be—— issued by a meteorological watch office and give a concise description in abbreviated plain language concerning the occurrence or expected occurrence of	(2) SIGMET information shall be— (a) issued by a meteorological watch office and give a concise description concerning the occurrence or expected occurrence of specified en-route weather phenomena, which may affect the safety of aircraft operations, and of the development of those phenomena in time and space. One of the following phenomena shall be included in SIGMET information: (i) thunderstorm; (ii) tropical cyclone;	Clarification

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					specified en-route weather phenomena, which may affect the safety of aircraft operations, and of the development of those phenomena in time and space; cancelled when the phenomena referred to in sub-regulation (2)(a) above are no longer occurring or are no longer expected to occur in the area.	(iii) turbulence; (iv) icing; (v) mountain wave; (vi) duststorm; (vii) sandstorm; (viii) volcanic ash; and (ix) radioactive cloud (b) cancelled when the phenomena referred to in sub-regulation (2)(a) above are no longer occurring or are no longer expected to occur in the area.	
48.		Reg.42(4)	SIGMET information	ICAO State letter-AN 10/1-23/1 New	(4) SIGMET messages concerning volcanic ash cloud or tropical cyclones shall be based on advisory information provided by Volcanic Ash Advisory Centres (VAACs) and Tropical Cyclone Advisory Centres	(4) SIGMET information concerning volcanic ash cloud or tropical cyclones shall be based on advisory information provided by Volcanic Ash Advisory Centres (VAACs) and Tropical Cyclone Advisory Centres (TCACs), respectively, designated by regional air navigation agreement.	clarification

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					(TCACs), respectively, designated by regional air navigation agreement.		
49.		Reg.42(7)	SIGMET information	ICAO State letter-AN 10/1-23/1 New	New	(7) In cases where the airspace is divided into an FIR and an upper flight information region (UIR), the SIGMET should be identified by the location indicator of the air traffic services unit serving the FIR	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November
50.		Reg.43	Dissemination of SIGMET information	ICAO State letter-AN 10/1-23/1 New	New	SIGMET information shall be disseminated to- a) meteorological watch offices, WAFCs and to other meteorological offices in accordance with regional air navigation agreement. SIGMET information for volcanic ash shall also be disseminated to volcanic ash advisory centres. b) international OPMET databanks and the centres designated by regional air navigation agreement for the operation of aeronautical fixed service Internet-based services, in accordance with regional air navigation agreement.	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November
51.		Reg.44	Aerodrome warnings	ICAO State letter-AN 10/1-23/1	(1) Aerodrome warnings shall be issued by the	(1) Aerodrome warnings shall be issued by the aerodrome meteorological office for	Clarification

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				New	aerodrome meteorological office designated by the service provider concerned and shall give concise information of meteorological conditions which could adversely affect aircraft on the ground, including parked aircraft, and the aerodrome facilities and services.	aerodromes where required by operators or aerodrome services. and Aerodrome warnings shall give concise information of meteorological conditions which could adversely affect aircraft on the ground, including parked aircraft, and the aerodrome facilities and services. (a) (2) Aerodrome warnings shall relate to the occurrence or expected occurrence of one or more of the following phenomena: (b) tropical cyclone (to be included if the 10-minute mean surface wind speed at the aerodrome is expected to be 17 m/s (34 kt) or more) (c) thunderstorm (d) hail (e) snow (including the expected or observed snow accumulation) (f) freezing precipitation (g) hoar frost or rime (h) sandstorm (i) duststorm (j) rising sand or dust (k) strong surface wind and gusts (l) squall (m) frost (n) volcanic ash (o) tsunami (p) volcanic ash deposition (q) toxic chemicals (r) other phenomena as agreed locally	

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52.		Reg.45	Dissemination of aerodrome warnings	ICAO State letter-AN 10/1-23/1 New	New	45. Aerodrome warnings shall be disseminated in accordance with local arrangements to those concerned.	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November
53.		Reg.47	Dissemination of wind shear warnings and alerts	ICAO State letter-AN 10/1-23/1 New	New	47. (1) The wind shear warnings shall be disseminated in accordance with local arrangements to those concerned. (2) The wind shear alerts shall be disseminated from automated, ground-based; wind shear remote-sensing or detection equipment in accordance with local arrangements to those concerned	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November
54.		Reg.52	Exchange of aeronautical climatological information	ICAO State letter-AN 10/1-23/1 New	New	Aeronautical climatological information shall be exchanged on request between meteorological authorities. Operators and other aeronautical users desiring such information shall apply to the meteorological authority responsible for its preparation.	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November
55.		Reg.53(3)	General provisions.	ICAO State letter-AN 10/1-23/1 New	New	) The meteorological authority, in consultation with the operator, shall determine: (a) the type and format of meteorological information to be supplied; and (b) methods and means of supplying that information.	New sub-regulation to comply with the changes in the state letter that will come to

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							effect by 2024 November
56.		Reg.53(6)	General provisions.	ICAO State letter-AN 10/1-23/1 New	48(5) Meteorological information supplied to operators and flight crew members shall be up to date and include the following information, as established by the service provider in consultation with operators concerned— (a) forecasts of – (i) upper wind and upper-air temperature; (ii) upper-air humidity; (iii) geopotential altitude of flight levels;	53(6) Meteorological information supplied to operators and flight crew members shall be up to date and include — (a) aerodrome and en-route observational information; (b) aerodrome and en-route forecast information; and (c) forecast information containing warnings and advisories.	Summarize the services provided. Numbering changed

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					(iv) flight level and temperature of tropopause; (v) direction, speed and flight level of maximum wind; (vi) SIGWX phenomena; and (vii) cumulonimbus clouds, icing and turbulence. (b) METAR or SPECI (including trend forecasts as issued in accordance with regional air navigation agreement) for the aerodromes of departure and intended landing, and for take-off, en-route and destination alternate aerodromes;		

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					(c) TAF or amended TAF for the aerodromes of departure and intended landing, and for take-off, en-route and destination alternate aerodromes; (d) forecasts for take-off; (e) SIGMET information and appropriate special air-reports relevant to the whole route; (f) volcanic ash and tropical cyclone advisory information relevant to the whole route; (g) subject to regional air navigation agreement, GAMET area forecast or area forecasts for low-		

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					level flights in chart form, relevant to the whole route; (h) aerodrome warnings for the local aerodrome; (i) meteorological satellite images; (j) ground-based weather radar information; and (k) space weather advisory information relevant to the whole route.		
57.		Reg.53(7)	General provisions.	ICAO State letter-AN 10/1-23/1 New	Forecasts listed under sub-regulation (5)(a) shall be generated from the digital forecasts provided by the WAFCs whenever these forecasts cover the intended flight path in respect of time, altitude and geographical extent,	(7) En-route Forecasts information shall be generated from the digital forecasts provided by the WAFCs whenever these forecasts cover the intended flight path in respect of time, altitude and geographical extent, unless otherwise agreed between the service provider and the operator concerned.	clarification

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					unless otherwise agreed between the service provider and the operator concerned		
58.		Reg.48(8)	General provisions.	ICAO State letter-AN 10/1-23/1 New	Charts generated from the digital forecasts provided by the WAFCs shall be made available, as required by operators, for fixed areas of coverage as provided for in the Ninth Schedule	deleted	
59.		Reg53(12)	General provisions.	ICAO State letter-AN 10/1-23/1 New	New	Meteorological information for pre-flight planning and in-flight replanning by operators of helicopters flying to offshore structures should include data covering the layers from sea level to flight level 100.	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November
60.		Reg.54(10)	Briefing, consultation and display.	ICAO State letter-AN 10/1-23/1 New	New	The material displayed should be readily accessible to the flight crew members or other flight operations personnel concerned.	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November

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61.		Reg.55(4)	Flight documentation	ICAO State letter-AN 10/1-23/1 New	New	The flight documentation related to concatenated route-specific upper wind and upper-air temperature forecasts shall be provided as agreed between the meteorological authority and the operator concerned	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November
62.		Reg.55(5)	Flight documentation	ICAO State letter-AN 10/1-23/1 New	New	Charts included in flight documentation should have a high standard of clarity and legibility	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November
63.		Reg.56(4)	Automated pre-flight information systems for briefing, consultation, flight planning and flight documentation.	ICAO State letter-AN 10/1-23/1 New	New	Automated pre-flight information systems providing self-briefing facilities shall provide for access by operators and flight crew members to consultation, as necessary, with an aerodrome meteorological office by telephone or other suitable telecommunications means.	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November
64.		Reg.57	Meteorological Information for aircraft in flight	ICAO State letter-AN 10/1-23/1 New	Information for aircraft in flight.	Meteorological Information for aircraft in flight	Clarifications Numbering of the regulations
65.		Reg.57(4)	Meteorological Information for aircraft in flight	ICAO State letter-AN 10/1-23/1	new	If an aircraft in flight requests meteorological information, the aerodrome meteorological office or meteorological watch office	New sub-regulation to comply with the

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				New		which receives the request shall arrange to supply the information with the assistance, if necessary, of another aerodrome meteorological office or meteorological watch office.	changes in the state letter that will come to effect by 2024 November
66.		Reg.59	Supply, dissemination and transmission arrangements	ICAO State letter-AN 10/1-23/1 New	new	Supply, dissemination and transmission arrangements	New regulation to comply with the changes in the state letter that will come to effect by 2024 November
67.		Reg.59	Supply, dissemination and transmission arrangements	ICAO State letter-AN 10/1-23/1 New	new	59. (1) Where necessary for flight information purposes, current meteorological reports and forecasts shall be supplied to designated aeronautical telecommunication stations. A copy of such information shall be forwarded, if required, to the FIC or ACC (2) When computer-processed upper-air grid point data in digital form is made available to air traffic services units for use by air traffic services computers the transmission arrangements shall be as agreed between the meteorological authority and the appropriate ATS authority. (3) The data should be supplied as soon as is practicable after the processing of the forecasts has been completed.	

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68.	Reg.60	Information for search and rescue services units	ICAO State letter-AN 10/1-23/1 New	new	(3) Information to be supplied to rescue coordination centres shall include the meteorological conditions that existed in the last known position of a missing aircraft and along the intended route of that aircraft with particular reference to: (a) significant en-route weather phenomena; (b) cloud amount and type, particularly cumulonimbus; height indications of bases and tops; (c) visibility and phenomena reducing visibility; (d) surface wind and upper wind; (e) state of ground, in particular, any snow cover or flooding; (f) sea-surface temperature, state of the sea, ice cover if any and ocean currents, if relevant to the search area; and (g) sea-level pressure data	New regulation to comply with the changes in the state letter that will come to effect by 2024 November
69.	Reg.61(2)	Information for aeronautical information services units.	ICAO State letter-AN 10/1-23/1 New	new	(2) The following information shall be supplied, as necessary, to an aeronautical information services unit: (a) information on meteorological service for international air navigation, intended for inclusion in the aeronautical information publication(s) concerned.	New regulation to comply with the changes in the state letter that will come to effect by 2024 November

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						(b) information necessary for the preparation of NOTAM or ASHTAM including, in particular, information on: i. the establishment, withdrawal and significant changes in operation of aeronautical meteorological services. This information is required to be provided to the aeronautical information services unit sufficiently in advance of the effective date to permit issuance of NOTAM ii. the occurrence of volcanic activity; and iii. release of radioactive materials into the atmosphere, as agreed between the meteorological and appropriate civil aviation authorities concerned; and (c) information necessary for the preparation of aeronautical information circulars including, in particular, information on: 1) expected important changes in aeronautical meteorological procedures, services and facilities provided; and 2) effect of certain weather phenomena on aircraft operations	
70.		Reg.62(9)	Requirements for communications	ICAO State letter-AN 10/1-23/1 New	new	(9) When upper-air grid point data in digital form is made available for use by air traffic services computers, the transmission arrangements shall	New sub-regulation to comply with the changes in the

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						be as agreed between the meteorological authority and the appropriate ATS authority.	state letter that will come to effect by 2024 November
71.		Reg.62(9)	Requirements for communications	ICAO State letter-AN 10/1-23/1 New	new	(10) When upper-air grid point data in digital form is made available to operators for flight planning by computer, the transmission arrangements shall be as agreed between the world area forecast centre concerned, the meteorological authority and the operators concerned.	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November
72.		Reg.63(3)	Use of aeronautical fixed service communications and the public Internet	ICAO State letter-AN 10/1-23/1 New	new	(3) Messages and bulletins containing operational meteorological information shall achieve transit times of less than 5 minutes, unless otherwise determined to be lower by regional air navigation agreement	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November
73.		Reg.64(1)	World area forecast system products.	ICAO State letter-AN 10/1-23/1 New	new	(1) The telecommunications facilities used for the supply of WAFS products shall be the aeronautical fixed service or the public Internet.	New sub-regulation to comply with the changes in the state letter that will come to effect by 2024 November
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78.							