AZƏRBAYCAN RESPUBLİKASININ
NƏQLİYYAT, RABİTƏ VƏ YÜKSƏK TEXNOLOGİYALAR NAZİRLİYİ
DÖVLƏT MÜLKİ AVİASİYA AGENTLİYİ

ƏMR

№ 11/1

Bakı şəhəri "06" iyul **2018-ci il**

Sənədlərin reviziyalarının təsdiq edilməsi barədə

Azərbaycan Respublikasının mülki aviasiya sistemində sənədləşmənin ICAO və Avropa standartlarına uyğunlaşdırılması məqsədi ilə, Çikaqo Konvensiyasının 37-ci maddəsinin tələblərinə müvafiq olaraq aşağıdakı sənədlərin reviziyalarının qüvvəyə minməsi zəruridir. Həmin düzəlişlərin təsdiq edilməsi məqsədi ilə "Azərbaycan Respublikasının Nəqliyyat, Rabitə və Yüksək Texnologiyalar Nazirliyi yanında Dövlət Mülki Aviasiya Agentliyi haqqında Əsasnamə"nin 5.6.6-cı bəndini rəhbər tutaraq, **əmr edirəm:**

1. 06 iyul 2018-ci il tarixindən aşağıdakı sənədlərin reviziyaları təsdiq edilsin.

	Sənəd		Qüvvəyə minmə tarixi
	Sənədin nömrəsi	Sənədin adı	
1	HB-GM-003	Personnel Licensing Inspector Handbook	Nəşr №2-dd.01.05.2018 rev.1 dd.06.06.2018
2	HB-GM-004	Aeromedical İnspector Handbook	Nəşr №2-dd.04.05.2018
3	HB-GM-005	Dangerous Goods Inspector Handbook	Nəşr №2-dd.10.05.2018
4	HB-GM-006	Operations Inspector Handbook	Nəşr №2-dd.11.05.2018
5	HB-GM-007	Airworthiness Inspector Handbook	Nəşr №1-Rev.1.7 dd.03.07.2018
6	HB-GM-008	Aerodrome Inspector Handbook	Nəşr №2-dd.14.05.2018
7	HB-GM-010	Surveillance and Safety Resolution Handbook	Nəşr №2-dd.21.06.2018
8	AAR-ANS-002	АПА-Обслуживание Воздушного Движения (ОВД(ATS))	Nəşr №3.-Rev.3-17.04.2018
9	AAR-ANS-003	AAR-Aeronautical Charts	Nəşr №1-Rev.2-06.07.2018
10	AAR-ANS-005	AAR-AERONAUTICAL INFORMATION SERVICE	Nəşr №1.1.-Rev.4-17.04.2018
11	AAR-ANS-007	AAQ-Radiomübadilə Qaydaları-az	Nəşr №1-Rev.1-17.04.2018
12	AAR-ANS-007	AAR-Radiotelephony Manual-en	Nəşr №1-Rev.1-17.04.2018
13	AAR-ANS-008	АПА-Метеорологическое Обеспечение Авиации (МОА)-ru	Nəşr №2-Rev.1-21.06.2018
14	AAR-ANS-009	AAR-Units Of Measurement (UOM)	Nəşr №1-Rev.1-17.04.2018
15	AAR-ANS-010	АПА-Авиационная электросвязь-Использование авиационного радиочастотного спектра	Nəşr №1-Rev.1-07.04.2018
16	AAR-ANS-011	АПА-Авиационная электросвязь-Системы наблюдения и предупреждения столкновений	Nəşr №1- Rev.1-07.04.2018
17	AAR-ANS-012	АПА-Авиационная электросвязь Системы речевой связи	Nəşr №1-Rev.1-07.04.2018

18	AAR-ANS-013	АПА-Авиационная электросвязь Системы передачи цифровых данных	Nəşr №1-Rev.1-07.04.2018
19	AAR-ANS-014	AAR-Instrument Flight Procedure Design (IFPD)-en	Nəşr №1-Rev.1-17.04.2018
20	AAR-ANS-015	АПА-Организация Воздушного Движения (ОрВД)-ru	Nəşr №1-Rev.1-17.04.2018
21	AAR-ANS-016	АПА-Разработка Летных Процедур-ru	Nəşr №1-Rev.1-17.04.2018
22	AAR-ANS-017	АПА-Требование к Профессиональной Подготовке Персонала по Электронным Средствам для Обеспечения Безопасности Воздушного Движения (ATSEP) при Эксплуатации Радиотехнического Оборудования и Связи в Гражданской Авиации	Nəşr №1-dd.22.12.2017
23	AAR-GM-001	AAQ-rın işlənib hazırlanma və dəyisdirilmə qaydaları-az	Nəşr №1-Rev.2-25.04.2018
24	AAR-GM-001	АПА-Процедура Разработки и Изменений АПА-ru	Nəşr №1-Rev.2-25.04.2018
25	AAR-GM-002	AAQ-Administrativ Əməliyyatlar	Nəşr №1-Rev.1-25.04.2018
26	AAR-OPS-001	AAR-OPS 1-en	Nəşr №3-Rev.2-25.04.2018
27	AAR-OPS-002	AAR-OPS 3-en	Nəşr №1-Rev.3-25.04.2018
28	AAR-OPS-003	AAQ-AMC & IEM to AAR-Ops-1-az	Nəşr №1-Rev.1-25.04.2018
29	AAR-OPS-005	AAQ-FSTD (A) Uçuşu imitasiya edən təlim qurğuları (təyyarə)-az	Nəşr №1-Rev1-25.04.2018
30	AAR-OPS-006	AAQ-FSTD (H) Uçuşu imitasiya edən təlim qurğuları (helikopter)-az	Nəşr №1-Rev1-25.04.2018
31	AAR-OPS-007	AAQ-FSTD (A)(H) Uçuşu imitasiya edən təlim qurğulari (STD.FSTD)(JAA AGM Sec 6 Part 2 rev 01.02.2008)-az	Nəşr №1-Rev.1-25.04.2018
32	AAR-OPS-009	AAR-Flight Dispatch-en	Nəşr №1-16.04.2018
33	AAR-PEL-001	АПА-FCL GEN-ru	Nəşr №2-Rev.4-16.05.2018
34	AAR-PEL-002	АПА-FCL 1 (A)-ru	Nəşr №1-Rev.2-16.05.2018
35	AAR-PEL-003	АПА-FCL-2 (H)-ru	Nəşr №1-Rev.2-16.05.2018
36	AAR-PEL-004	AAQ-FCL-3 Aviasiya Personalının (Heyətlərin)Tibbi Müayinəsi	Nəşr №1-Rev.5-16.05.2018
37	HB-GM-013	Application and Granting Exemptions Handbook	Nəşr №2-dd.03.05.2018
38	HB-GM-014	Mandatory Occurrence Reporting (MOR) System Handbook-en	Nəşr №1 Rev.1-dd.03.May.2018
39	HB-OPS-002	Extended Diversion Time Operations (EDTO) Handbook -en	Nəşr №2.-dd.03.May.2018
40	PC-CRT-001	Procedure for maintenance and storage of the Civil Aircraft State Register	Nəşr №2-dd.03.05.2018
41	PH-CRT-001	Air Operator Certification (AOC) Advisory Pamphlet	Nəşr №2-dd.03.05.2018
42	PH-CRT-003	The AAR-147 maintenance training organization (MTO) Approval Advisory Pamphlet	Nəşr №2-dd.03.05.2018

2. Göstərilən sənədlərin yenilənmiş versiyaları Dövlət Mülki Aviasiya Agentliyinin rəsmi saytında yerləşdirilsin.

3. Əmrin icrasına nəzarət direktorun müavini Hacıağa Əliyevə həvalə edilsin.

Direktor **Arif Məmmədov**

APPROVED
by SCAA Director Order
№ 11/1 dd. 06 July 2018

AZERBAIJAN AVIATION RULES – UNITS OF MEASUREMENTS TO BE USED IN AIR AND GROUND OPERATIONS (AAR-UOM)

State Civil Aviation Agency of the Republic of Azerbaijan

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Azerbaijan State Civil Aviation Agency

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AMENDMENTS

AMENDMENTS				AMENDMENTS			
No.	**Date Applicable**	**Date Entered**	**Entered by**	**No.**	**Date Applicable**	**Date Entered**	**Entered by**
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FOREWORD

This Azerbaijan Aviation Rules – Units of Measurement to be used in Air and Ground Operations is issued by SCAA to specify the use of a standardized system of units of measurement in international civil aviation air and ground operations. This standardized system of units of measurement is based on the International System of Units (SI) and certain non-SI units considered necessary to meet the specialized requirements of international civil aviation. The standards and recommended practices contained in this Azerbaijan Aviation Rules (AAR) shall be applicable to all aspects of international civil aviation air and ground operations in Azerbaijan Republic.

The standards and recommended practices in this AAR are based on those stipulated in The decision N23of the Cabinet of Ministers of the Republic of Azerbaijan since 3 february of 2011 and Annex 5 (entitled “Units of Measurement to be used in Air and Ground Operations”) to the Convention on International Civil Aviation (as in force and amended from time to time by the Council of the International Civil Aviation Organisation) and other relevant ICAO documents, and with such modifications as may be determined by SCAA to be applicable in Azerbaijan Republic.

Amendments to this AAR – Units of Measurement to be used in Air and Ground Operations are the responsibility of the Director of the SCAA Aerodrome. Readers should forward advice of errors, inconsistencies or suggestions for improvement to this AAR to the addressee of SCAA of Azerbaijan Republic.

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CHAPTER 1

1.1 DEFINITIONS

1.1.1 When the following terms are used in the standards and recommended practices concerning the units of measurement to be used in all aspects of international civil aviation air and ground operations in Azerbaijan Republic, they have the following meanings:

Ampere (A)
The ampere is that constant electric current which, if maintained in two straight parallel conductors of infinite length, of negligible circular cross-section, and placed 1 metre apart in vacuum, would produce between these conductors a force equal to $2x10^7$ newton per metre of length.

Becquerel (Bq)
The activity of a radionuclide having one spontaneous nuclear transition per second.

Candela (cd)
The luminous intensity, in the perpendicular direction, of a surface of 1/600 000 square metre of black body at the temperature of freezing platinum under a pressure of 101 325 newtons per square metre.

Celsius temperature (t^0c)
The Celsius temperature is equal to the difference $(t^0c) = T - To$ between two thermodynamic temperatures T and To where To equals 273.15 kelvin.

Coulomb (C)
The quantity of electricity transported in 1 second by a current of 1 ampere.

Degree Celsius (^0C)
The special name for the unit kelvin for use in stating values of Celsius temperature.

Farad (F)
The capacitance of a capacitor between the plates of which there appears a difference of potential of 1 volt when it is charged by a quantity of electricity equal to 1 coulomb.

Foot (ft)
The length equal to 0.3048 metre exactly.

Gray (Gy)
The energy imparted by ionizing radiation to a mass of matter corresponding to 1 joule per kilogram.

Henry (H)
The inductance of a closed circuit in which an electromotive force of 1 volt is produced when the electric current in the circuit varies uniformly at a rate of 1 ampere per second.

Hertz (Hz)
The frequency of a periodic phenomenon of which the period is 1 second.

Human performance
Human capabilities and limitations which have an impact on the safety and efficiency of aeronautical operations.

Joule (J)

The work done when the point of application of a force of 1 newton is displaced a distance of 1 metre in the direction of the force.

Kelvin (K)
A unit of thermodynamic temperature which is the fraction 1/273.16 of the thermodynamic temperature of the triple point of water.

Kilogram (kg)
The unit of mass equal to the mass of the international prototype of the kilogram.

Knot (kt)
The speed equal to 1 nautical mile per hour.

Litre (L)
A unit of volume restricted to the measurement of liquids and gases which is equal to 1 cubic decimetre.

Lumen (lm)
The luminous flux emitted in a solid angle of 1 steradian by a point source having a uniform intensity of 1 candela.

Lux (lx)
The illuminance produced by a luminous flux of 1 lumen uniformly distributed over a surface of 1 square metre.

Metre (m)
The distance travelled by light in a vacuum during 1/299 792 458 of a second.

Mole (mol)
The amount of substance of a system which contains as many elementary entities as there are atoms in 0.012 kilogram of carbon-12.

Note.- When the mole is used, the elementary entities must be specified and may be atoms, molecules, ions, electrons, other particles or specified groups of such particles.

Nautical mile (NM)
The length equal to 1 852 metres exactly.

Newton (N)
The force which when applied to a body having a mass of 1 kilogram gives it an acceleration of 1 metre per second squared.

Ohm (Ω)
The electric resistance between two points of a conductor when a constant difference of potential of 1 volt, applied between these two points, produces in this conductor a current of 1 ampere, this conductor not being the source of any electromotive force.

Pascal (Pa)
The pressure or stress of 1 newton per square metre.

Radian (rad)
The plane angle between two radii of a circle which cut off on the circumference an arc equal in length to the radius.

Second (s)
The duration of 9 192 631 770 periods of the radiation corresponding to the transition between the two hyperfine levels of the ground state of the caesium-133 atom.

Siemens (S)
The electric conductance of a conductor in which a current of 1 ampere is produced by an electric potential difference of 1 volt.

Sievert (Sv)
The unit of radiation dose equivalent corresponding to 1 joule per kilogram.

Steradian (sr)
The solid angle which, having its vertex in the centre of a sphere, cuts off an area of the surface of the sphere equal to that of a square with sides of length equal to the radius of the sphere.

Tesla (T)
The magnetic flux density given by a magnetic flux of 1 weber per square metre.
Tonne (t)
The mass equal to 1 000 kilograms.
Volt (V)
The unit of electric potential difference and electromotive force which is the difference of electric potential between two points of a conductor carrying a constant current of 1 ampere, when the power dissipated between these points is equal to 1 watt.
Watt (W)
The power which gives rise to the production of energy at the rate of 1 joule per second.
Weber (Wb)
The magnetic flux which, linking a circuit of one turn, produces in it an electromotive force of 1 volt as it is reduced to zero at a uniform rate in 1 second.
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CHAPTER 2: Applicability

2.1 This AAR – Units of Measurement to be used in Air and Ground Operations (hereafter referred to as the "Manual") shall be applicable to all aspects of international civil aviation air and ground operations in Azerbaijan Republic.

2.2 This Manual is based on The decision N23of the Cabinet of Ministers of the Republic of Azerbaijan since 3 february of 2011 and ICAO Annex 5 – Units of Measurement to be used in Air and Ground Operations.

2.3 Where there is a difference between a standard in this Manual and that of the above-mentioned ICAO documents, the standard in this Manual shall prevail.

2.4 Differences, where they exist, between the standards in this Manual and those contained in the relevant ICAO Annexes shall be published in section GEN 1.7 of the Aerbaijan AIP and also notified to ICAO.

2.5 In this Manual, standards are preceded by the word "shall", whereas recommended practices are preceded by the word "should". All operators involved in international civil aviation air and ground operations in Azerbaijan Republic shall comply with all standards set out in this manual at all times and should endeavour to comply with all recommended practices.

2.6 In addition to the Manual of Standards, the following may also be issued as and when required:

(a) Safety Directive – this directive is a mandatory requirement to be complied by all operators involved in international civil aviation air and ground operations in Azerbaijan Republic. It is published for purposes of immediate promulgation of local standards and recommended practices in response to, but not limited to, amendments to ICAO Annexes. The Safety Directives will be incorporated into subsequent amendment of this Manual.

(b) Safety Publication – this advisory circular is published for purposes of promulgating supplementary guidance materials to the standards and recommended practices in this Manual. The publications are intended to provide recommendations and guidance to illustrate a means, but not necessarily the only means, of complying with this Manual. Safety Publications may explain certain regulatory requirements by providing interpretive and explanatory materials.

(c) Information Circular – this is published for purposes of bringing to the attention of educational materials related to aviation safety. The publications could be initiated as a result of ICAO State letters which do not require immediate changes to local regulations, new safety initiatives or international best practices. All operators involved in international civil aviation air and ground operations in Azerbaijan Republic are encouraged to review and adopt the material if

practicable. Where appropriate, the material in the publications may be incorporated into subsequent amendments of this Manual.

Azərbaycan Dövlət Mülki Aviasiya Agentliyi
Azerbaijan State Civil Aviation Agency

CHAPTER 3: Standard Application of Units of Measurement

3.1 SI Units

3.1.1 The International System of Units developed and maintained by the General Conference of Weights and Measures (CGPM) shall, subject to the provisions of paragraphs 3.2 and 3.3, be used as the standard system of units of measurement for all aspects of international civil aviation air and ground operations in Azerbaijan Republic.

3.1.2 The prefixes and symbols listed in Table 3-1 shall be used to form names and symbols of the decimal multiples and sub-multiples of SI units.

Note 1.- As used herein the term SI unit is meant to include base units and derived units as well as their multiples and sub-multiples.

Note 2.- See Attachment B of ICAO Annex 5 for guidance on the general application of prefixes.

Table 3-1: SI unit prefixes

Multiplication factor			***Prefix***	***Symbol***
1000 000 000 000 000 000	=	10^{18}	exa	E
1 000 000 000 000 000	=	10^{15}	peta	P
1 000 000 000 000	=	10^{12}	tera	T
1 000 000 000	=	10^{9}	giga	G
1 000 000	=	10^{6}	mega	M
1 000	=	10^{3}	kilo	k
100	=	10^{2}	hecto	h
10	=	10^{1}	deca	da
0.1	=	10^{-1}	deci	d
0.01	=	10^{-2}	centi	c
0.001	=	10^{-3}	milli	m
0.000 001	=	10^{-6}	micro	μ
0.000 000 001	=	10^{-9}	nano	n
0.000 000 000 001	=	10^{-12}	pico	p
0.000 000 000 000 001	=	10^{-15}	femto	f
0.000 000 000 000 000 001	=	10^{-18}	atto	a

3.2 Non-SI Units

3.2.1 The non-SI units listed in Table 3-2 shall be used either in lieu of, or in addition to, the SI units as the units of measurement but only as specified in Table 3-4.

3.2.2 The non-SI units listed in Table 3-3 shall be permitted for temporary use as the units of measurement but only for those specific quantities listed in table 3-4.

Note.- It is intended that the use of the non-SI units listed in Table 3-3 and applied as indicated in Table 3-4 will eventually be discontinued in accordance with individual unit termination dates established by the ICAO
Council. Termination dates, when established, will be given in Chapter 4.

3.3 Application of specific units

3.3.1 The application of units of measurements for certain quantities used in international civil aviation air and ground operations in Azerbaijan Republic shall be in accordance with Table 3-4.

3.3.2 Means and provisions for design, procedures and training should be established for operations in environments involving the use of standard and non-SI units of measurement, or the transition between benvironments using different units, with due consideration to human performance.

Note.- Guidance material on human performance can be found in the Human Factors Training Manual (ICAO Doc 9683) and Circular 238 (ICAO Human Factors Digest No. 6 - Ergonomics).

Table 3-2: Non-SI units for use with the SI

Specific quantities in Table 3-4 related to	***Unit***	***Symbol***	***Definition (in terms of SI units)***
mass	tonne	t	1t = 10^3kg
plane angle	degree	°	1° = (π/180)rad1°
	minute	‘	1‘ = (1/60) = (π/10 800)rad
	second	‘‘	1‘‘ = (1/60) = (π/648 000)rad
temperature	degree Celsius	°C	1 unit°C = 1 unit K[a)]
time	minute	min	1 min = 60 s
	hour	h	1 h = 60 min = 3600 s
	day	d	1 d = 24 h = 86 400 s
	week, month, year	--	
volume	litre	L	1 L = 1 dm^3 = $10^{-3}m^3$

a) See Table 3-5 for conversion

Table 3-3: Non-SI units permitted for temporary use with the SI

Specific quantities in Table 3-4 related to	***Unit***	***Symbol***	***Definition (in terms of SI units)***
distance (long)	nautical mile	NM	1 NM = 1 852 m
distance(vertical)[a)]	foot	ft	1 ft = 0.304 8 m
speed	knot	kt	1 kt = 0.514 444 m/s
a) altitude, elevation, height, vertical speed.			

Table 3-4: Standard application of specific units of measurement

Ref. No.	**Quantity**	**Unit (symbol)**
1. Direction/Space/Time		
1.1	altitude	m or ft
1.2	area	m^2
1.3	distance (long)[a)]	km or NM
1.4	distance (short)	m
1.5	elevation	m or ft
1.6	endurance	h and min
1.7	height	m or ft
1.8	latitude	° ' "
1.9	length	m
1.10	longitude	° ' "
1.11	plane angle (when required, decimal subdivisions of the degree shall be used)	°
1.12	runway length	m
1.13	runway visual range	m
1.14	tank capacities (aircraft)[b)]	L
1.15	time	s min h d week month year
1.16	visibility[c)]	km
1.17	volume	m^3
1.18	wind direction (wind directions other than for a landing and take-off shall be expressed in degrees true; for landing and take-off wind directions shall be expressed in degrees magnetic)	°

Ref. No.	Quantity	Unit (symbol)
2. Mass-related		
2.1	air density	kg/m^3
2.2	area density	kg/m^2
2.3	cargo capacity	kg
2.4	cargo density	kg/m^3
2.5	density (mass density)	kg/m^3
2.6	fuel capacity (gravimetric)	kg
2.7	gas density	kg/m^3
2.8	gross mass or payload	kg t
2.9	hoisting provisions	kg
2.10	linear density	kg/m
2.11	liquid density	kg/m^3
2.12	mass	kg
2.13	moment of inertia	$kg\ m^2$
2.14	moment of momentum	$kg \cdot m^2/s$
2.15	momentum	$kg \cdot m/s$
3. Force-related		
3.1	air pressure (general)	kPa
3.2	altimeter setting	hPa
3.3	atmospheric pressure	hPa
3.4	bending moment	$kN \cdot m$
3.5	force	N
3.6	fuel supply pressure	kPa
3.7	hydraulic pressure	kPa
3.8	modulus of elasticity	MPa
3.9	pressure	kPa
3.10	stress	MPa
3.11	surface tension	mN/m
3.12	thrust	kN
3.13	torque	$N \cdot m$
3.14	vacuum	Pa
4. Mechanics		
4.1	airspeed[d)]	km/h or kt
4.2	angular acceleration	rad/s^2
4.3	angular velocity	rad/s
4.4	energy or work	J
4.5	equivalent shaft power	kW
4.6	frequency	Hz
4.7	ground speed	km/h or kt
4.8	impact	J/m^2
4.9	kinetic energy absorbed by brakes	MJ
4.10	linear acceleration	m/s^2
4.11	power	kW
4.12	rate of trim	°/s
4.13	shaft power	kW
4.14	velocity	m/s
4.15	vertical speed	m/s or ft/min
4.16	wind speed[e)]	m/s or kt

Ref. No.	Quantity	Unit (symbol)
5. Flow		
5.1	engine airflow	kg/s
5.2	engine waterflow	kg/h
5.3	fuel consumption (specific)	
	piston engines	kg/(kW · h)
	turbo-shaft engines	kg/(kW · h)
	jet engines	kg/(kN · h)
5.4	fuel flow	kg/h
5.5	fuel tank filling rate (gravimetric)	kg/min
5.6	gas flow	kg/s
5.7	liquid flow (gravimetric)	g/s
5.8	liquid flow (volumetric)	L/s
5.9	mass flow	kg/s
5.10	oil consumption	
	gas turbine	kg/h
	piston engines (specific)	g/(kW · h)
5.11	oil flow	g/s
5.12	pump capacity	L/min
5.13	ventilation airflow	m^3/min
5.14	viscosity (dynamic)	Pa · s
5.15	viscosity (kinematic)	m^2/s
6. Thermodynamics		
6.1	coefficient of heat transfer	W/(m^2 · K)
6.2	heat flow per unit area	J/m^2
6.3	heat flow rate	W
6.4	humidity (absolute)	g/kg
6.5	coefficient of linear expansion	$^oC^{-1}$
6.6	quantity of heat	J
6.7	temperature	^oC
7. Electricity and magnetism		
7.1	capacitance	F
7.2	conductance	S
7.3	conductivity	S/m
7.4	current density	A/m^2
7.5	electric current	A
7.6	electric field strength	C/m^2
7.7	electric potential	V
7.8	electromotive force	V
7.9	magnetic field strength	A/m
7.10	magnetic flux	Wb
7.11	magnetic flux density	T
7.12	power	W
7.13	quantity of electricity	C
7.14	resistance	Ω

Ref. No.	Quantity	Unit (symbol)
8. Light and related electromagnetic radiations		
8.1	illuminance	lx
8.2	luminance	cd/m^2
8.3	luminous exitance	lm/m^2
8.4	luminous flux	lm
8.5	luminous intensity	cd
8.6	quantity of light	lm · s
8.7	radiant energy	J
8.8	wavelength	m
9. Acoustics		
9.1	frequency	Hz
9.2	mass density	kg/m^3
9.3	noise level	dB[f)]
9.4	period, periodic time	s
9.5	sound intensity	W/m^2
9.6	sound power	W
9.7	sound pressure	Pa
9.8	sound level	dB[f)]
9.9	static pressure (instantaneous)	Pa
9.10	velocity of sound	m/s
9.11	volume velocity (instantaneous)	m^3/s
9.12	wavelength	m
10. Nuclear physics and ionizing radiation		
10.1	absorbed dose	Gy
10.2	absorbed dose rate	Gy/s
10.3	activity of radionuclides	Bq
10.4	dose equivalent	Sv
10.5	radiation exposure	C/kg
10.6	exposure rate	C/kg · s

a) As used in navigation, generally in excess of 4 000 m.
b) Such as aircraft fuel, hydraulic fluids, water, oil and high pressure oxygen vessels.
c) Visibility of less than 5 km may be given in m.
d) Airspeed is sometimes reported in flight operations in terms of the ratio MACH number.
e) A conversion of 1 kt = 0.5 m/s is used in ICAO Annexes for the representation of wind speed.
f) The decibel (dB) is a ratio which may be used as a unit for expressing sound pressure level and sound power level. When used, the reference level must be specified.

Table 3-5: Temperature conversion formulae

To convert from	***to***	***Use formula***
Celsius temperature (t^o_c)	Kelvin temperature (t_K)	$t_K = t^o_c + 273.15$
Fahrenheit temperature (t^o_F)	Celsius temperature (t^o_c)	$t^o_c = (t^o_F - 32)/1.8$
Fahrenheit temperature (t^o_F)	Kelvin temperature (t_K)	$t_K = (t^o_F + 459.67)/1.8$
Kelvin temperature (t_K)	Celsius temperature (t^o_c)	$t^o_c = t_K - 273.15$
Rankine temperature (t^o_R)	Kelvin temperature (t_K)	$t_K = t^o_R/1.8$

Note.- See Attachment C of ICAO Annex 5 for the list of conversion factors provided to express the definitions of miscellaneous units of measure as numerical multiples of SI units.

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CHAPTER 4: Termination of use of Non-SI Units

Note.- The non-SI units listed in Table 3-3 have been retained temporarily for use as the units because of their widespread use and to avoid potential safety problems which could result from the lack of international coordination concerning the termination of their use. As termination dates are established by the ICAO Council, they will be reflected as Standards contained in this Chapter: It is expected that the establishment of such dates will be well in advance of actual termination. Any special procedures associated with specific unit termination will be circulated separately from this Manual.

4.1 The use in international civil aviation operations of the non-SI units listed in Table 3-3 shall be terminated on the dates listed in Table 4-1.

Table 4-1: Termination dates for non-SI units

Non-SI unit	Termination date
Knot Nautical mile	Not established[a)]
Foot	Not established[b)]

a) No termination date has yet been established for use of nautical mile and knot
b) No termination date has yet been established for use of the foot

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