

ATS instruction 14

Communication

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Appendix A

Phraseology (Speech Communication)

Appendix B

CPDLC Data Link Message Set

1. In general

1.1 Scope of the instructions

1.1.1 The instructions include 2 different forms and methods of exercising communication: 'SPEECH-COMMUNICATION' and 'CONTROLLER-PILOT DATA LINK COMMUNICATION (CPDLC)'

1.1.2 'Voice communication', described in chapter 2 and in Appendix A, includes cf. regulation (EU) 923/2012 (SERA) and BL 7-14, procedures that are used in the exercise of radio communication between ATS units and aircraft, including driving with aircraft, and for coordination

between ATS units.

1.1.3 'CONTROLLER-PILOT DATA LINK COMMUNICATION (CPDLC)', described in chapter 3 as well as in Appendix B, includes procedures that are used when performing data link communication between air traffic controller and pilot.

2. Speech communication

Note: Where the term "frequency/channel" is used in subsequent procedures, the term "frequency" indicates the entire aviation frequency range, while the term "channel" indicates channel designation in the VHF communication band, cf. 2.10.5 and pt. 2.10.6.

2.1 In general

2.1.1 Points 2.3.1, 2.5.1, 2.12, 2.14, 2.15, 2.18 and 2.19 as well as Appendix A, chapter 6. are used while exercising coordination between ATS units.

2.2 Time system

2.2.1 Coordinated Universal Time (UTC) must be used by all stations in the aviation mobile service. Midnight 2400 UTC shall mark completion of a day, and midnight 0000 must denote the start of a day.

2.2.2 A date-time group must consist of 6 numbers, of which the first two numbers indicate the date, and the last four numbers indicate the hours and minutes respectively in UTC.

2.3 Language

2.3.1 For voice communication must be used English or Danish.

2.3.2 An air traffic services unit shall respond a call from an aircraft in the same language as the aircraft uses, cf. section 2.3.1.

2.3.2.1 In connection with the performance of air traffic services for IFR flights, standard English phraseology must be used whenever possible.

Note: This appears from Aeronautical Information Publication (AIP), which aviation stations that only uses English or Danish.

2.4 Transmission in general

2.4.1 If it is necessary for an aircraft to had to send out signals for testing and adjustment of equipment, and if this can be expected to disrupt the work of a nearby aviation station, permission from the aviation station must be obtained beforehand such signals are emitted.

2.4.2 If it is necessary for a station to send test before call, it must not exceed 10 seconds. Such tests must consist of spoken numbers (One, two, three, / One, two, three, etc.), ending with the station's call sign.

2.4.3 The following transmission technique must follow given:

- the frequency/channel must be tuned in before the transmission begins in order not to disrupt ongoing correspondence,
- normal speaking speed must be used, and must speak clearly and concisely,
- standard phraseology should be used where appropriate possible.

2.4.4 If an aviation station is simultaneously called by several aircraft, the aeronautical station determines it order in which the aircraft must deliver theirs messages.

2.4.5 If retransmission is established, this must be activated when working on several frequencies/channels simultaneously. The retransmission can however, it is interrupted if this is necessary for the appropriate processing of the radio communication.

2.5 Use of aviation phraseology

2.5.1 In voice communication, must be used standard words, numbers and standard expressions as listed in sections 2.8, 2.9, 2.10 and 2.11.

2.5.2 In spoken communication, the phraseologies must listed in Appendix A to these instructions are used in the situations for which they are specified, cf. however section 2.5.3.

2.5.3 If in a given situation either not standard phraseology exists for use, or there if comprehension problems arise in correspondence with an aircraft, other appropriate phraseology must be used. This should be it as clear and concise as possible and designed in such a way that there is no risk of misunderstandings.

2.5.4 The phraseology examples listed in Appendix A generally have a background in ICAO DOC 4444, ch. 12, 'Phraseologies', and phrases listed in other ATS instructions have been added. The phrasing examples supplement those in section 2.5.1 listed standard words and expressions and are used in connection therewith. The phraseology examples cannot cover everyone possible situation, so where the conditions differ, it is expected that pilots and ATS personnel use clear language which must be as unambiguous as possible, and which meets the set requirements for language skills for the individual certificate holder, with in order to also avoid misunderstandings between the people who use a language other than their mother tongue.

2.5.4.1 For reasons of clarity, the phraseologies in Appendix A are grouped according to the types of air traffic service where they commonly is used. However, ATS personnel must know - and in relevant situations also use - phraseologies from the other groups.

2.5.5 Phraseologies relating to movement of vehicles in the maneuvering area, other than tow tractors, are not grouped separately, since the phraseologies applied to aircraft, too can be used for vehicles, except for 'taxi instructions', where the term 'DRIVE' must be used instead of the term 'TAXI' when communicating with vehicles.

Note: The separately grouped phraseology for towing tractors appears in Appendix A, section 2.4, Towing procedures.

2.5.6 Approved abbreviations, initials (e.g VOR) and code phrases (e.g. DETRESFA) must

is used in stages when it can shorten and remedy the communication.

Note: ICAO DOC 8400 "Abbreviations" lists the abbreviations, initials and code phrases that are approved for use in voice communication.

2.6 Clearances and air traffic control instructions

2.6.1 The standard expression 'CLEARED'/'TIL-LADT' and its derivations may only be used in connection with:

- take-off and landing clearances
- approach clearances; and
- clearances regarding flight path.

2.6.2 In all cases other than those that are described in section 2.6.1, must be used directly expressed air traffic control instructions, eg:

Flight Control Instructions:
TAXI.....TAXI
AIR TAXI.....AIR TAXI
CLIMB.....RISE
DESCEND.....GO DOWN
CROSS.....CROSS
TURN.....TURN
CONTACT.....CONTACT
REPORT.....REPORTS
HOLD.....WAIT
GO AROUND.....EXCESS
LINE-UP.....TAXI INTO THE TRACK

2.6.3 To avoid confusion when issuing of clearances and air traffic control instructions and reading them back must both ATC personnel and pilots always add the call sign of the aircraft or vehicle to which the clearance or air traffic control instruction is sent, cf. however section 2.16.4.

2.6.4 Clearances or air traffic control instructions in the form of conditional expressions, e.g. "after landing aircraft" or "after departing aircraft", must not be sent in connection with driving there relates to a runway used for take-off or landing, unless the involved aircraft or vehicles can be seen by the control tower and concerned aircraft. The aircraft or vehicle which is the cause to the condition in the clearance, must be the first aircraft/ vehicle to pass in front of the person in question aircraft. A conditional clearance must be sent in the following order and contain:

- a) call sign
- b) condition

- c) clearance, and
- d) short repetition of the condition.

Example:

“SAS 941, BEHIND BOEING 737 ON SHORT FINAL, LINE UP BEHIND”.

Note: This implies the necessity to the aircraft receiving the conditional clearance can identify the aircraft or vehicle in question which is the reason for the conditional clearance.

2.7 Read back (read back)

2.7.1 All safety-related parts of clear-calls and air traffic control instructions must be repeated by the receiver. The following must always be repeated:

- a) route clearances;
- b) clearances and air traffic control instructions for aircraft to approach, land on, take off on, keep clear of, cross or drive back along one lane (backtrack), whether the lane is "lane in use" or not;
- c) information for aircraft about runway in use, altimeter setting, SSR codes, newly assigned communication channels, altitude instructions, course and speed instructions and for arriving IFR flights, whether notified by the air traffic service or contained in an ATIS broadcast, review level.

2.7.2 Other clearances or air traffic control instructions, including conditional clearances and driving instructions, must be repeated by the recipient or confirmed in a manner that clearly shows that the clearance and air traffic control instruction has been understood and will be followed.

2.7.3 The air traffic service operator must listen to the readback to ensure that clearances and air traffic control instructions are correct confirmed and must immediately correct any discrepancy that the readback has revealed.

2.7.4 If the sender of a message that read back, identify errors or misunderstandings, must be answered

NEGATIVE, I SAY AGAIN/NEGATIVE, I REPEAT

after which the correct version is repeated.

2.7.5 Any readback must be completed with its own call sign.

2.7.6 Air traffic service units must cooperate to ensure that the provisions under section 2.7 are complied with.

2.8 The spelling alphabet

2.8.1 The spelling alphabet is indicated below must be used when sending call signals or words whose spelling may be in doubt, or which is not immediately perceived by the receiving clean.

A	Alpha	<u>AL</u> FAH
B	Well done	<u>BRAH</u> WOH
C	Charlie CHAR	<u>LEE</u> or <u>SHAR</u> <u>LEE</u>
D	Participate	<u>DELL</u> TAH
E	Echo	<u>ECK</u> OH
F	Foxtrot FOX	<u>TROT</u>
G	Golf	<u>GOLF</u>
H	Hotel	<u>HOH</u> <u>TELL</u>
-	India	<u>IN</u> DEE AH
J	Juliette	<u>JEW</u> <u>LEE</u> ONE
K	Kilo	<u>KEY</u> LOH
L	Lima	<u>LEE</u> MAH
M	Mike	<u>MIKE</u>
N	November NO WHO	<u>NEEDS</u>
<small>ISLAND</small>	Oscar	<u>US</u> CAH
P	Papa	<u>PAH</u> <u>PAH</u>
Q	Quebec KEH	<u>BECK</u> _____
R	Romeo ROW	<u>ME</u> OH
p	Sierra	<u>SEE</u> AIR RAH
T	Tango	<u>TONGUE</u> GO
U	Uniform YOU	<u>NEE</u> FORM or <u>OO</u> NO FORM
V	Victor	<u>WAKE</u> TAH
W	Whiskey WISS	<u>KEY</u> _____
X	X-ray	<u>EKCS</u> RAY
Y	Yankee YANG	<u>KEY</u> _____
Z	Zulu	<u>ZOO</u> LOO
Æ	Ægir	ÆGIR
Ø	Øresund	ØRESUND
Å	Åse	ÅSE

Note: Emphasis is placed on underlined syllables.

2.9 Pronunciation of numbers

2.9.1 Numbers should be pronounced as follows:

English	Danish
0	ZERO
	WUN
1	TOO
2	TREE
3	FOWs
4	FIFE
5	SIX
6	The SEV
7	AIT
8	NINs
9 10	WUN ZERO
,	DAY-SEE-MAL
100	One HUN-dred
1000	One TOU sand

* when the number 9 stands alone or at the end of a group, it must always be pronounced NEJ-ner....NIN-er.

Note: The stress must be placed on the syllables that are written in capital letters

2.10 Delivery of numbers and groups of numbers

2.10.1 In Danish, numbers and groups of numbers are sent to the same way as these are said in ordinary speech.

Numbers in the thousands group under ten thousand can be divided into 2 times 2 groups of numbers, e.g. the number 3764 must be pronounced as either:

THREE THOUSAND SEVEN HUNDRED FOUR AND SIXTY,

or

THIRTY SEVEN SIXTY FOUR.

Altimeter setting (QNH/QFE), however, must always sent as in ordinary speech, e.g. 1014 as: ONE THOUSAND AND FOURTEEN.

Bearings and courses must always consist of three digits, eg. Course 020 is expressed as: Course ZERO TWENTY.

Examples:

Danish
10
25
50
100
583
600
1000
2182
(or)
2500

(or)	Twenty-five hundred
5000	Five thousand
7600	Seven thousand six hundred
11000	Eleven thousand
18900	Eighteen thousand nine hundred
38143	Thirty-eight thousand one hundred and forty-three

2.10.2 In English, all numbers are sent by pronounce each digit individually, except as prescribed in section 2.10.3 or 2.10.3.2.

Examples:

Danish phraseology is indicated below in *italics*.

Aircraft call signs

CCA 238	Air China TWO THREE EIGHT (two hundred and thirty-eight)
OAL 242	Olympic TWO FOUR TWO (two hundred and forty-two)

Flight levels

FL 180	flight level ONE EIGHT ZERO (flight level one hundred and eighty)
FL 200	See example in section 2.10.3.2

Headings (courses)

100 degrees	heading ONE ZERO ZERO (course one hundred)
080 degrees	heading ZERO EIGHT ZERO (course eighty)

Wind direction and speed velocity)

200 degrees 79 knots	wind TWO ZERO ZERO degrees SEVEN NIN knots (wind two hundred degrees NO-seventy knots)
160 degrees 18 knots	wind ONE SIX ZERO degrees ONE EIGHT knots (wind one hundred and sixty degrees eighteen knots)

Transponder codes

2000	See example in section 2.10.3.2.
2400	See example in section 2.10.3.2.
4213	squawk FOUR TWO ONE THREE (squawk forty two thirteen or four thousand two hundred thirteen)

Runway

27	runway TWO SEVEN
----	------------------

08R runway ZERO EIGHT *RIGHT*

Altimeter setting (*altimeter setting*)

1010 QNH ONE ZERO ONE ZERO
(*QNH one thousand and ten*)

1000 See example in section 2.10.3.

2.10.3 When sending figures regarding height above sea level, altimeter setting, cloud height, visibility and runway visual range (RVR) containing whole hundreds and whole thousands, each digit is pronounced in the number of hundreds or in the number of thousands followed by the word HUNDRED or THOUSAND. For combinations of thousands and whole hundreds pronounced each digit in the number of thousands followed of each digit in the number of hundreds added to the words HUNDRED and THOUSAND respectively.

Examples:

Altitude (*height above sea level*)

800 ft EIGHT HUNDRED FEET
(*eight hundred feet*)

3400 ft THREE THOUSAND FOUR
A HUNDRED FEET
(*three thousand four hundred feet or
thirty-four hundred feet*)

12000 ft ONE TWO THOUSAND FEET
(*twelve thousand feet*)

Altimeter setting (*altimeter setting*)

1000 QNH ONE THOUSAND
(*QNH one thousand*)

Cloud height

2200 ft TWO THOUSAND TWO
A HUNDRED FEET
(*two thousand two hundred feet or
twenty two hundred feet*)

4300 ft FOUR THOUSAND THREE
A HUNDRED FEET
(*four thousand three hundred feet or forty
three hundred feet*)

Visibility

1000 m visibility ONE THOUSAND
METERS
(*visibility one thousand meters*)

700 m visibility SEVEN HUNDRED
METERS
(*visibility seven hundred meters*)

Runway Visual Range

600 m RVR SIX HUNDRED METERS
(*RVR six hundred meters*)

1700 RVR ONE THOUSAND SEVEN
HUNDRED
(*RVR one thousand seven hundred
meters or seventeen hundred
meters*)

2.10.3.1 If clarification of the figure is required shipped as whole hundreds and/or wholes thousands, the number must be sent by mentioning each digit individually.

2.10.3.2 For sending numbers and groups of numbers, which indicating flight levels and transponder codes must

a) flight levels are sent by pronouncing each digit separately, except for flight levels in whole hundred, which must be transmitted by saying each digit of hundred followed by the word HUNDRED, and

b) transponder codes are sent by speaking each digit separately, except for transponder codes in the whole thousand, which must be transmitted by pronouncing each thousands digit followed by the word THOUSAND

Flight levels

FL 200 Flight level TWO HUNDRED
(*flight level two hundred*)

Transponder codes

2000 squawk TWO THOUSAND
squawk two thousand

2400 squawk TWO FOUR ZERO
ZERO
(*squawk twenty four zero zero or
two thousand four hundred*)

2.10.4 Numbers containing commas must be expressed as stated in section 2.10.1 and 2.10.2 with the comma mentioned where it appears in the number.

Note 1: The following chart shows examples of this procedure:

English	Danish
100.32 One zero zero decimal three two	One hundred point thirty-two or one hundred point three two

38143.9 *Three eight one
four three deci-mal
nines* *Thirty-eight
thousand one
hundred and forty-
three comma nines*

2.10.5 When specifying channels for VHF frequencies, all 6 digits must be specified, unless 5. and 6th digit are both zero. In that case, indicate alone the first 4 digits.

Note 1: There is no requirement for 8.33 equipment in aircraft in the ICAO NAT Region.

Note 2: The following table shows examples of this procedure:

Channel	English	Danish
118,000	One one eight decimal zero	One hundred eighteen point zero
118.005	One one eight decimal zero zero five	One hundred eighteen point zero zero five
118,010	One one eight decimal zero one zero	One hundred eighteen point zero ten or one hundred eighteen point zero one zero
118,025	One one eight decimal zero two five	One hundred eighteen point zero twenty five or one hundred eighteen point zero two five
118,050	One one eight decimal zero five zero	One hundred eighteen point zero fifty or one hundred eighteen point zero five zero
118,100	One one eight decimal one	One hundred eighteen point one

2.10.6 When designating traffic etc. according to the clock face method, normal pronunciation of numerals from 1 is used to 12:

speak up

English Danish

at 9 position At your NIN is the O'CLOCK position

(in your o'clock NO-ner position)

at 10-position At your TEN O'CLOCK position
(in your TEN o'clock position)

at 11-position At your ELEVEN O'CLOCK position

(in your ELEVEN o'clock position)

at 11-position At your TWELVE O'CLOCK position

(in your TWELVE o'clock position)

2.10.7 The time is only sent with an indication of the number of minutes. If there is any doubt, however, the hourly rate is also sent. Upon request information about current time, must control towers as well AFIS units indicate the time rounded to the nearest half a minute. The following phraseology is used:

Examples:

at	English	Danish
0620	Two zero, el. Zero six two zero	Thieves, etc. Zero six twenty
1643	Four three, or One six four three	Forty-three, or Sixteen forty-three
1800	On the hour, or One eight zero zero	On the hour, or Eighteen zero zero
0620:30	Two zero and a half or. zero six two zero and a half	twenty and a half electricity. zero six twenty and a half
O'clock whole (whole hours) and 30 seconds	On the hour and a half or zero zero and a half	<i>(in an hour and a half or zero zero and a half)</i>

2.11 Standard words and expressions

2.11.1 Subsequent standard words and expressions shall be used and have the following meaning:

ACKNOW- LEDGE	Let me know that my message has been received and understood
CONFIRM MEL- THING	
AFFIRM YES	Yes
APPROVED APPROVED	Request approved
BREAK BREAK	I hereby indicate separation between parts of my message
BREAK BREAK BREAK BREAK	I hereby indicate separation between messages to different aircraft

CANCEL CANCEL	Cancel	READ BACK READ BACK	Repeat the whole, or specified part of the message I just sent
CHECK CHECK el. CHECK	Check (systems or procedures)	RECLEARED CHANGED TO- CHARGING	Clearance changed to (this new clearance or part thereof replaces the one previously sent)
CLEARED ALLOWED	Allowed to perform	REPORT REPORTS REQUEST REQUESTING	Send the following information... I would like to know, <i>or</i> I request
CONFIRM CONFIRM	Have I received the message? correctly, <i>or</i> have you received my message correctly	ROGER UNDERSTOOD or RECEIVED	I have understood the message (must not be used as a receipt for messages that require reading back)
CONTACT CONTACT el. SWITCH TO	Establish radio contact with	SAY AGAIN REPEAT	Repeat the whole or specified part of your message
CORRECT CORRECT	It is correct	SPEAK SLOWER SPEAK SLOW- MORE	Reduce the speaking rate
CORRECTION CORRECTION	I have said a mistake, the correct version is	STANDBY WAIT CALLER BACK	Wait, I'm calling you
DISREGARD IGNORE MEL- THING	Consider the message in question as not sent	UNABLE NOT ABLE TO	I cannot comply with your request, instruction or clearance (usually followed by a reason)
HOW DO YOU READ HOW ARE YOU READING ME?	What is the readability (quality) of my broadcast	VERIFY INVESTIGATE	Check and confirm the correctness (with the issuer)
I SAY AGAIN I REPEAT- GER	I repeat (for emphasis)	WILCO WILCO	I understand your message and will comply with it (WILCO is a contraction of "will comply")
MAINTAIN STAY	Proceed in accordance with the stated conditions, or in the literal sense of the word, e.g. "Maintain VFR"	WORDS TWICE SEND EACH WORD TWO AWAYS	a) as a request: communication is difficult, so send every word, or groups of words twice b) as information: since communication is difficult, every word or groups of words being sent twice (not normally used on VHF)
MONITOR eavesdrop	Listen on (frequency)		
NEGATIVE NEGATIVE	No, <i>or</i> permission not granted, <i>or</i> That is not correct		
OVER SHIFTING	My message has been completed and I expect a reply (not normally used for communication on VHF)		
OUT END	Exchange of messages completed (not normally used for communication on VHF)		

2.12 Prioritization of messages

2.12.1 Sending and processing of messages must be done in the following order of priority:

- 1) distress messages ("MAYDAY"),
cf. section 2.22,
- 2) emergency messages (urgency messages "PAN PAN"),
cf. section 2.22,
- 3) messages regarding bearings (direction finding),
- 4) messages regarding the safety of a flight (flight safety messages),
- 5) meteorological messages (meteorological messages),
- 6) messages regarding the regularity of aircraft, provided the irregularity occurred during the flight time (Flight regularity messages).

2.12.2 Messages regarding the regularity of aircraft may not be sent over control frequencies/- channels if other aviation frequencies/channels are available.

2.13 Composition of messages

2.13.1 Aviation messages, which are only exchanged between aircraft and aviation stations, consist of of:

- a) calls that indicate the recipient's call sign followed by the sender's call sign, cf. section 2.14 and section 2.15,
- b) the text of the notification, cf. 2.13.4.

2.13.2 Messages from aircraft that must be forwarded by the aviation station to others must be composed as follows:

- a) calls, cf. 2.13.1 a), followed by the word;
FORTO, or MESSAGE FOR.....MESSAGE
TO
- b) the name and/or address to which the notification must be passed on, and
- c) the text of the notification, cf. 2.13.4.

2.13.3 Messages to aircraft issued by others than aeronautical services, shall be dispatched as follows:

- a) calls, cf. 2.13.1 a), followed by the word;
FROMFROM, or MESSAGE FROM.... MESSAGE
FROM

b) the name and address of the issuer
the message

c) the text of the notification, cf. 2.13.4.

2.13.4 The text must be as concise as possible for passing on the necessary information.

2.14 Call signs for aircraft

2.14.1 An aircraft's call sign must be one of the following three types:

type a) registration designation of the aircraft (the name of either the aircraft make or type model may be used as a "pre-fix" for the registration designation),

type b) the carrier's telephone designation (ICAO DOC 8585) followed by the last ones four characters of the aircraft's registration designation,

type c) the carrier's telephone designation followed by the route number.

Note: To increase awareness of the ground station or other aircraft that the transmitting aircraft is of a category that has special maneuvering characteristics, the following aircraft types must also use own aircraft type as prefix in the call sign:

- a) *Glider: "Glider" or "Glider".*
- b) *Helicopters: "Helicopter" or "Helicopter".*
- c) *Ultralight aircraft: "Ultralight" or "Ultralight".*
- d) *Hang gliders: "Hang glider" or "Kite".*

2.14.2 When satisfactory communication is has been established, and it cannot cause confusion, the aircraft must use the abbreviated form as shown below provided that the aeronautical station has called the aircraft in one of the abbreviated forms as follows:

type a) the first and at least the last two characters of the registration (the name of either the make or model of the aircraft may be used instead of the first character of the registration designation)

type b) the carrier's telephone designation followed by at least the last two characters of the registration,

type c) must never be shortened.

Example:

Full call sign	Abbreviated call sign
type a) OYABC	OBC, etc. O-ABC
CESSNA OYABC	CESSNA BC, el. CESSNA ABC
CITATION OYABC	CITATION BC, or CITATION ABC
HELICOPTERS OYHAF	ELECTRIC HELICOPTER HELICOPTERS HAF
SLIDE/SWEAT-VEFLY OYXPM	GLIDER/SWO-VEHICLE PM or Glider/Swimplane XPM
type b) AIRLINE YABC	AIRLINE BC, or AIRLINE ABC
type c) AIRLINE 401	(no abbreviated form)

2.14.3 An aircraft may not change its callsign during a flight. However, if that can occur possibility of confusing call signs, one can air traffic control unit instruct the aircraft to temporarily use a different call sign.

2.14.4 An aircraft of Wake Turbulence category SUPER or HEAVY shall, on the first call to an air traffic service unit, add respectively "SUPER" or "HEAVY" for its call sign.

2.15 Call signs for aviation status

2.15.1 An aviation station's call sign must consist of:

- a geographical place name, and
- a "suffix" indicating the service provided.

The service unit must be identified in accordance with the table below, but either can geographic place name or "suffix" is omitted, provided secure communication is established.

Examples of call signs:

Unit/service	"Suffix" for call sign
Area control center	CONTROL
Approach control	APPROACH
Approach control radar arrival waltz	ARRIVAL
Approach control radar departures	DEPARTURE
Aerodrome control	TOWER
Surface movement control	GROUND
Radar (in general)	RADAR
Precision approach radar	PRECISION
Direction-finding station	HOMER
Flight information service	INFORMATION
Clearance delivery	DELIVERY
Apron service	APRON
Company dispatch	DISPATCH
Aeronautical station	RADIO
Aerodrome Flight Information Service:	
- Denmark:	INFORMATION
- Faroe Islands and Greenland:	AFIS
Examples:	
AALBORG TOWER	
APPRECIATION APPROACH	
COPENHAGEN CONTROL	
ESBJERG INFORMATION	
SONDRESTROM TOWER	
VAGAR OFFICE	
NUUK AFIS	
NUUK INFORMATION	

2.16 Establishment of communication

2.16.1 When establishing a communication connection, full call signals must always be used by both the calling and the responding station. The use of the calling station's callsign followed by the answering station's callsign is considered an invitation to the caller

station to begin the message.

Ex.:

Call: KASTRUP TOWER - OYABC

Answer: OYABC - KASTRUP TOWER.

2.16.1.1 When transferring communications within the same ATS unit, the ATS unit's call sign is omitted.

2.16.2 Immediately following the first established communication link on an air traffic control frequency/channel, state aircraft that not equipped with RNAV, after the call signal use the term 'NEGATIVE RNAV'.

2.16.3 Any test calls are sent as follows:

Recipient's callsign, followed by sender's callsign and the expression:

RADIO CHECK (and the frequency/channel used)

2.16.3.1 Answers to test calls are sent as follows:

The caller's callsign, followed by own callsign, and as an expression of legibility is used the following graduations:

1. UNREADABLE.....UNREADABLE
2. READABLE NOW AND THEN.....READABLE OCCASIONALLY
3. READABLE BUT WITH DIFFICULTY.....READABLE BUT WITH DIFFICULTY
4. READABLE.....READABLE
5. PERFECTLY READABLE..... PERFECTLY READABLE

2.16.4 When 2-way connection is established can sequences of communication are exchanged between same stations without further use of call signs until the connection is terminated, below condition of another call/call sign not is broken into during the exchange.

2.16.5 Communication must begin with call and answer, unless it is certain that it called station will receive the message. Establishment of first contact, however, must always be in accordance with section 2.16.1.

2.16.6 Calls to aircraft that are in the take-off phase, during the last part of the final approach and during the landing run, may only take place if for safety reasons is required.

2.16.7 If an aeronautical station wishes to transmit general information for all aircraft, the message must begin with:

ALL STATIONS.....FOR ALL STATIONS.

Apart from emergency and fire announcements, no announcements are expected reply to such messages, unless specifically requested.

2.16.8 When a station is called but identification of the caller is uncertain, the called station replies:

STATION CALLING SAY AGAIN
YOUR CALLSIGN.....WHO'S CALLING (callsign-nal)
REPEAT YOUR CALLSIGN.

2.16.9 Direct communication between aircraft may not take place over air traffic service frequencies, unless separate permission has been obtained from the relevant air traffic service unit.

2.16.9.1 In the case of direct communication between aircraft, the word must be used on the first call "INTERPILOT" immediately after dispatch of aircraft call signs.

Ex.:

AIRLINE 123 - OYABC, INTERPILOT, DO YOU READ.....AIRLINE 123 - OYABC, INTERPILOT, DO YOU HEAR ME?

2.16.9.2 If aircraft of an air station have granted permission to communicate directly with each other, the receiving aircraft must check the communication and immediately cause it to be terminated if it finds that the aviation station have wanted in.

2.16.10 All stations must answer calls directed to them and must exchange communications on request.

2.16.11 Aircraft must under normal conditions communicate on the frequencies/channels that are available listed for the individual aviation stations in AIP.

2.16.12 Aviation stations must instruct aircraft to switch to another specified frequency/channel, when the aircraft must leave a frequency/channel, for which there is a demand for the establishment of two-way radio communication.

Note: In the parts of Faroese and Greenlandic airspace where two-way radio communication is not required, aircraft must announce when the frequency/channel is left.

2.17 Receipt of receipt

2.17.1 An aircraft's receipt for receipt of a report must be made by pronouncing the aircraft's call sign.

2.17.2 An aviation station's receipt of a message must be done by:

a) for aircraft:

to pronounce the aircraft call sign followed by om required by the aviation station's own call sign,

(b) to another aeronautical station:

to pronounce own aviation station's call sign.

Only particularly difficult messages or parts of messages must be read back by an aviation station and ends with the call sign of the aviation station.

2.18 Correction and Repetition

2.18.1 In the event of an error in a transmission, the word is pronounced:

CORRECTION.....CORRECTION,

after which the last correct group or expression is repeated and the transmission is continued.

2.18.2 If a correction can best be carried out by repeating the entire message is expressed:

CORRECTION, I SAY AGAIN.....CORRECTION, I REPEAT,

after which the message is transmitted from the beginning.

2.18.3 If a recipient wants an entire message repeated, this must be indicated by expressing:

SAY AGAINREPEAT.

Desired parts of a message are expressed repeatedly

respectively:

SAY AGAIN ALL BEFOREREPEAT EVERYTHING BEFORE, etc. SAY AGAIN ALL AFTER..... REPEAT EVERYTHING AFTER, etc. SAY AGAIN ALL BETWEEN..... REPEAT EVERYTHING IN BETWEEN.

If a certain subject is desired to be expressed repeatedly eg.:

SAY AGAIN RUNWAY IN USE.....REPEAT RUNWAY IN USE.

2.18.4 If the sender of a message that read back, identify errors or misunderstandings, must be answered:

NEGATIVE, I SAY AGAIN.....NO, I REPEAT

after which the correct version is repeated.

2.19 Cancellation

2.19.1 If a clearance or air traffic control instruction is to be cancelled, the aeronautical station shall express:

CANCEL.....CANCEL.

2.19.2 If a message/transmission etc. must be cancelled, the sender must express:

DISREGARD.....IGNORE MESSAGE.

2.20 Termination of Communication

2.20.1 A correspondence must be concluded by the receiving station sends its own call signal.

2.21 Listening guard

2.21.1 Aircraft that must maintain a listening watch on specified frequencies/channels, must not cease herewith without the permission of the aviation station in question, unless there are safety reasons for this.

2.21.2 Aircraft flying over the North Sea and Skagerrak within the Copenhagen FIR, and aircraft flying within the Nuuk FIR must keep an uninterrupted listening watch on the VHF emergency channel 121,500 MHz, except during such periods when the aircraft performs communication on other VHF communication channels, or the work in the driver's cabin does not allows simultaneous listening of two VHF communication channels.

2.21.3 Aircraft that on the VHF emergency channel 121.500 MHz hears an ELT signal that is judged to be other than a short trial, must immediately inform the nearest aviation station with an indication of the aircraft's position, flight altitude, route and time when the ELT signal was first heard as well as the volume of the signal. During the flight information is also given about the volume of the signal to or decreases.

If the ELT signal ceases, you will be notified accordingly way about the aircraft's position, flight altitude, route and time when the signal was last heard.

2.21.4 Aviation stations must, within the service hours, maintain a constant listening watch on their working frequencies/channels as well as on the emergency frequencies/channels that the aviation stations are equipped with with.

2.21.5 Aviation stations that do not have H-24 services, which are or are expected to be involved in emergency traffic, air traffic and traffic related to illegal action, must extend their normal duty hours to provide the communications support that it the situation in question requires.

2.22 Emergency and fire notifications

2.22.1 Emergency and air traffic must be maintained on it frequency/channel where the first call was made, unless it is estimated that a better service can be provided assistance on another frequency/channel.

Emergency messages

2.22.2 Emergency calls are initiated with the signal "MAYDAY", if possible said three times. Then in order as many of the following as possible points:

- a) call sign of the station the message is intended for, possibly ALL STATIONS.....FOR ALL STATIONS,
- b) own call sign,
- c) description of the emergency,
- d) the commander's intentions,
- e) the position, altitude and course of the aircraft,
- f) other relevant information for use for any search.

Note: An aircraft equipped with an SSR transponder is expected to transmit SSR code 7700 to show that it is in an emergency.

2.22.3 The called aviation station, or first station responding to the emergency call must:

- a) immediately acknowledge the aircraft's call sign, followed by own call sign and,
ROGER MAYDAY.....MAYDAY RECEIVED
- b) take control of the communication, or depending on the circumstances, transfer it to a other mod at the same time to inform the aircraft about this
- c) notify all appropriate persons according to alarm plans.

2.22.4 The aircraft in distress, or the aviation station, who has taken over control of the emergency traffic, can impose on others that interfere with the exchange of emergency traffic, radio silence by broadcasting:

STOP TRANSMITTING, MAYDAY.....STOP TRANSMITTING, MAYDAY

2.22.5 When the aircraft that issued the MAY-DAY is no longer in an emergency situation, it must issue a cancellation thereof to the controlling aviation station:

the call sign of the aviation station - the call sign of the aircraft,

CANCEL DISTRESS.....CANCEL EMERGENCY THING

2.22.6 The controlling aeronautical station shall, when emergency traffic has ceased and radio silence has not longer is necessary, broadcast:

ALL STATIONS - (the call sign of the aviation station), DISTRESS TRAFFIC ENDED.....EMERGENCY TRAFFIC FINISHED

Odor messages

2.22.7 Fire reporting begins with the signal "PAN PAN", preferably pronounced three times, then as many as possible from the following points:

- a) the callsign of the station for which the message is intended, possibly "ALL STATIONS",
- b) own call sign,
- c) description of the situation,
- d) the commander's intentions,
- e) the position, altitude and course of the aircraft,
- f) other relevant information.

2.22.8 The called aeronautical station, or first arriving station that responds to the alert, must:

- a) acknowledge the report
- b) notify everyone according to alerting plans.

2.22.9 When the flight includes medical transport, the signal PAN PAN MEDI-CAL must be started as a warning message, if possible said three times.

The message content must include:

- a) the aircraft's call sign or other recognizable identification of the medical transport,
- b) the position of the aircraft,
- c) number and type of medical transport,
- d) place of departure and place of destination,

- e) intended route and expected flight time and
- f) any other information about the flight, such as flight altitude, intercepted radio frequencies, used language and SSR mode and code.

2.22.10 The procedure mentioned in section 2.22.8, must be used by the receiving station a PAN PAN MEDICAL message.

2.22.11 After calls where the distress and emergency signals is broadcast, the distress and emergency signals can be used every time subsequent communication is exchanged.

2.23 Communication regarding illegal act

2.23.1 The station that is called by an aircraft that is subject to an illegal act or the first station to respond to it must notify in accordance with alerting plans and provide all possible assistance, cf. also the provision in section 2.21.5.

Note: An aircraft equipped with an SSR transponder is expected to transmit SSR code 7500 to show that it is hijacked.

2.24 Communication regarding RVSM

2.24.1 When flying in, including climb or descent through, RVSM airspace with aircraft which is not approved for RVSM flight, the pilot must report the status of the approval in accordance with Appendix A, section 1.1.13, c), RVSM phraseology, as follows:

- a) on initial calls on any frequency i RVSM air space,
- b) upon any request for a change of height, and
- c) at any reading back of height clearance-gives.

2.24.2 Flight controllers must expressly acknowledge receiving messages from aircraft about non-approved RVSM status.

2.25 Failing radio connection

2.25.1 If it is not possible for an aircraft to establish connection with an aeronautical station on the frequency/channel that the station normally uses, the aircraft must:

- a) try to establish connection on it beforehand used frequency/channel and, if not gives result, on another expedient frequency/channel, or
- b) if this fails, the aircraft shall attempt to establish a connection with the relevant air traffic station, other aviation stations or others aircraft using any available means, with information that the connection on the originally assigned frequency/channel could not be established, or

- c) if this is also not successful on the normally used frequency/channel, start the broadcast with the expression:

TRANSMITTING BLIND TRANSMITTING BLIND,

and then send the message 2 times, as well if the aircraft is equipped with SSR transponder, broadcast SSR code 7600.

2.25.2 If the reason for the aircraft being out of able to establish a radio connection is due to a fault in the receiving system, the aircraft must send its messages to a normal extent and on the normally used frequency/channel. It begins with the expression:

TRANSMITTING BLIND DUE TO RECEIVER FAILURE.....TRANSMITTING BLIND ON GROUND OF RECEIVER ERROR.

The message must be repeated and then terminated with the time of the next expected call.

3. Controller-Pilot Data Link Communication (CPDLC)

3.1 In general

3.1.1 The use of CPDLC constitutes a method of communication between air traffic controllers and pilots use of data link for ATC communication.

General note: The total CPDLC concept consists of the following services:

- *ATC Communications Management Service (ACM)*
- *Clearances and Information Communications Service (CIC)*
- *Downstream Clearances Service (DSC)*
- *Departure Clearance Service (DCL).*

The ACM service provides automated assistance to aircraft and the two handover ATC units in performing the necessary communications in connection with the handover; both the speech channel and the new data communication channel is used.

The CIC service includes message exchange and operational procedures between air traffic controller/pilot by air-ground data communication within the EUR region regarding:

- Air traffic controllers issuing clearances, flight control instructions and messages/instructions,
- Pilots' reports and requests for clearances,
- Assistance and system messages.

Combination of voice and data link communication included in the description of the CIC service.

The DSC service passes on, at the request of a aircraft, 'downstream' clearance from a subsequent ATC unit that is not the current controlling ATC unit for the concerned

aircraft, e.g. where earth-earth connections are not available or are insufficient.

The DCL service provides automated assistance in connection with the request for and submission of ATC clearance before departure (pre-departure clearance). **Only performance of DCL is described so far in these instructions**, as the other services mentioned above depend on, among other things the establishment of it advanced ground-based data networks (Aeronautical Telecommunication Network (ATN) - which must convey the CPDLC data to the various transmitters/receive stations that the aircraft successively hook on.

3.1.2 Applying CPDLC includes a set of message elements (clearance/air traffic control instruction/information/request) that correspond to the phraseology used in connection with a radiotelephony scenario.

Note 1: See Appendix B regarding the CPDLC message set, where the respective message elements are set out in list form with corresponding explanation on their purpose and use.

Note 2: However, it is the CPDLC mentioned in note 1 message set in Appendix B so far limited to only include the message elements that relate to the request for/issuance of 'pre-departure clearance' via data link, as it is only this

sub-function of the total CPDLC concept, which is expected to be implemented for the time being, cf. above general notes. **As a consequence of this, subsequent clause 3.1.3 and 3.1.4 for the time being only in use, for what is relevant the 'pre-departure clearance' function.**

3.1.3 The air traffic controller must be equipped with possibility of: issuing heights, crossing restrictions, lateral deviations, route clearances and changes thereto, speed assignments, frequency/channel assignments, and requests about information.

3.1.4 The pilot must be equipped with the ability to: answer messages, request clearances and information, report, and could declare or cancel an emergency.

3.1.5 The pilot and the air traffic controller must be equipped with the possibility to exchange 'free text' messages that do not match with the defined formats.

3.1.6 Sending a message using CPDLC must consist of/occur upon selection of recipient(s), selection of relevant message as well as a 'send' function.

3.1.7 When time indication is used using CPDLC, it must be accurate to within 1 second relative to UTC.

3.1.8 Where practicable, the digital data link communication procedures for providing CPDLC shall be in accordance with Annex 10, Volume III, Part I, Chapter 3. The message elements include purpose, text content and associated procedures are generally in accordance with Appendix A 'Phraseology'. It is recognized, however, that the CPDLC message set and the associated procedures differ somewhat from the ditto used speech equivalent due to the difference between the two media, as the exchange of data can displayed on screen or in printed form.

3.2 Communication procedures

3.2.1 The air traffic controller or pilot must initiate data messages either by using the message set defined in Appendix B, a 'free text' message or a combination of both.

3.2.2 Both the ground-based and the airborne systems must take into account that the messages:

- can be presented in an appropriate way,
- can be printed out when desired and stored in a form that enables timely and convenient access to the stored data.

When presentation of text is desired, as a minimum the text must be in English.

Message attributes (Message attributes)

3.2.3 The message properties require certain requirements for message processing by the CPDLC user, who receives a message. Each CPDLC message has three properties: '**Urgency-**', '**Alert-**' and '**Response attributes**'.

3.2.3.1 The Urgency (URG) attribute depicts **the system queuing requirements** for the received messages which is presented to the end user. Urgent types shown in the following chart:

Urgency Attribute (Uplink and Downlink)

Type	Description	Precedence
D	Distress	1
U	Urgent	2
N	Normal	3
L	Low	4

3.2.4 The Alert (ALRT) property depicts **the nature of attention/speed** required by

receipt of the message. Alert types are shown in the following table:

Alert Attribute (Uplink and Downlink)

Type	Description	Precedence
H	High	1
M	Medium	2
L	Low	3
N	No alerting required	4

3.2.5 The Response (RESP) property determines **the response requirements for a given message element**. Response types are shown in subsequent tables for respectively for uplink messages and for downlink messages:

Response Attribute (Up-Link)

Type	Response Required	Valid Responses	Precedence
W/U	Yes	WILCO, UNABLE, STANDBY permitted, LOGICAL ACKNOWLEDGEMENT (only if required), ERROR (if necessary)	1
A/N	Yes	AFFIRM, NEGATIVE, STANDBY permitted, LOGICAL ACKNOWLEDGEMENT (only if required) ERROR (if necessary)	2
R	Yes	ROGER, UNABLE, STANDBY permitted, LOGICAL ACKNOWLEDGEMENT (only if required) ERROR (if necessary)	3
Y	Yes	Any CPDLC downlink message, LOGICAL ACKNOWLEDGEMENT (only if required)	4
N	No, unless logical acknowledgment required	LOGICAL ACKNOWLEDGEMENT (only if required)	5

Response Attribute (Down-Link)

Type	Response Required	Valid Responses	Precedence
Y	Yes	Any CPDLC uplink message, LOGICAL ACKNOWLEDGEMENT (only if required)	1

N	No, unless logical acknowledgment required	LOGICAL ACKNOWLEDGEMENT (only if required), ERROR (if necessary, only when logical acknowledgment is required)	2
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Appendix A

Phraseology (Speech Communication)

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0. In general

0.1 Rules for the use of subsequent phraseology examples are listed in ATS instruction 14, section 2.5 'Use of aviation phraseology' and the communication procedures must be in accordance with as stated in ATS instruction 14, chapter 2. 'Voice communication'.

0.2 The phraseology examples have not been translated to Danish, as they will mainly be used in connection with handling IFR traffic.

Danish phraseology examples appear from BL 7-14, latest edition.

0.3 The phraseology examples include only full text, i.e. without various call signs etc. The relevant expressions/names/numbers etc. belonging to them **index words enclosed in parentheses ()** (e.g. level, time, place, frequency, significant point) **must** be added to the phraseology in question, whereas it to the **index words enclosed in squares brackets []** can optionally be added.

1. Phraseologies

1.1 General

Circumstances	Phraseology	Used by	
		ATC	FIS
<p>1.1.1 Description of levels (subsequently referred to as "(level)")</p> <p><i>Note: In circumstances where clarification is required, the word "ALTITUDE" or "HEIGHT" may be included, eg 'DESCEND TO ALTITUDE TWO THOUSAND FEET'.</i></p> <p>...when passing level information in form of vertical distance from the other traffic</p>	<p>a) FLIGHT LEVEL (<i>number</i>); or</p> <p>b) [HEIGHT] (<i>number</i>) FEET/METRES;</p> <p>c) [ALTITUDE] (<i>number</i>) FEET/METRES;</p> <p>d) (<i>number</i>) FEET/METERS ABOVE (or BE-LOW).</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	
<p>1.1.2 Level changes, reports and rates</p> <p>...instruction that a climb (or descent) to a level within the vertical range defined is to commence</p>	<p>a) CLIMB (or DESCEND);</p> <p><i>followed as necessary by:</i></p> <p>1) TWO (<i>level</i>);</p> <p>2) TWO AND MAINTAIN BLOCK (<i>level</i>) TWO (<i>level</i>);</p> <p>3) TO REACH (<i>level</i>) AT (or BY) (<i>time or significant point</i>);</p> <p>4) REPORT LEAVING (or REACHING, or PASSING) (<i>level</i>);</p> <p>5) AT (<i>number</i>) FEET PER MINUTE (or METERS PER SECOND) [OR GREATER (or OR LESS)];</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	

...for SST (Supersonic Transport) aircraft only	6) REPORT STARTING ACCELERATION (or DECELERATION);	ÿ ÿ
	b) MAINTAIN AT LEAST (number) FEET (or METRES) ABOVE (or BELOW) (aircraft call sign)	ÿ ÿ
	c) REQUEST LEVEL (or FLIGHT LEVEL or ALTITUDE) CHANGE FROM (name of unit) [AT (time or significant point)];	ÿ ÿ
	d) STOP CLIMB (or DESCENT) AT (level);	ÿ ÿ
	e) CONTINUE CLIMB (or DESCENT) TO (live- <small>electronic</small>);	ÿ ÿ
	f) EXPEDITE CLIMB (or DESCENT) [UNTIL PASSING (level)];	ÿ ÿ
	g) WHEN READY CLIMB (or DESCEND) TO (level);	ÿ ÿ
	h) EXPECT CLIMB (or DESCENT) AT (time or significant point);	ÿ ÿ
	i)* REQUEST DESCENT AT (hour);	*
...to require action at a specific time or place	j) IMMEDIATELY;	ÿ ÿ
	k) AFTER PASSING (significant point);	ÿ ÿ
	l) AT (time or significant point);	ÿ ÿ
...to require action when convenient	m) WHEN READY (instruction);	ÿ ÿ
...to require an aircraft to climb or descend maintaining own separation and VMC	n) MAINTAIN OWN SEPARATION AND VMC [FROM (level)] [TO (level)];	ÿ ÿ
	o) MAINTAIN OWN SEPARATION AND VMC ABOVE (or BELOW, or TO) (level);	ÿ ÿ
...when there is doubt that an aircraft can comply with a clearance or instruction	p) IF UNABLE (alternative instructions) AND ADVISE;	ÿ ÿ
...when a pilot is unable to comply with a clearance or instruction	q)* UNABLE;	*
... after a flight crew starts to deviate from any ATC clearance or instruction to comply with an ACAS resolution advisory (RA) (Pilot and controller interchange)	r)* TCAS RA;	*
	s) ROGER;	ÿ ÿ

<p>... after the response to an ACAS RA is completed and a return to the ATC clearance or instruction is initiated (Pilot and controller interchange)</p> <p>... after the response to an ACAS RA is completed and the assigned ATC clearance or instruction has been resumed (Pilot and controller interchange)</p> <p>... after an ATC clearance or instruction contradictory to the ACAS RA is received, the flight crew will follow the RA and inform ATC directly (Pilot and controller exchange)</p> <p>...clearance to cancel level restriction(s) of the vertical profile of a SID during climb</p> <p>...clearance to cancel level restriction(s) of the vertical profile of a STAR during descent</p>	<p>t)* CLEAR OF CONFLICT, RETURNING TO <i>(assigned clearance)</i>;</p> <p>u) ROGER <i>(or alternative instructions)</i>;</p> <p>v)* CLEAR OF CONFLICT <i>(assigned clearance)</i> RESUMED;</p> <p>w) ROGER <i>(or alternative instructions)</i>;</p> <p>x)* UNABLE, TCAS RA;</p> <p>y) ROGER;</p> <p>z) CLIMB TO <i>(level)</i> [LEVEL RESTRICTION(S) <i>(SID designator)</i> CANCELLED <i>(or)</i> LEVEL RESTRICTION(S) <i>(SID designator)</i> AT <i>(point)</i> CANCELLED];</p> <p>aa) DESCEND TO <i>(level)</i> [LEVEL RESTRICTION(S) <i>(STAR designator)</i> CANCELLED <i>(or)</i> LEVEL RESTRICTION(S) <i>(STAR designator)</i> AT <i>(point)</i> CANCELLED].</p> <p>*** <i>Denotes pilot transmission</i></p>	<p>*</p> <p>ÿ ÿ</p> <p>*</p> <p>ÿ ÿ</p> <p>*</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	
<p>1.1.3 Minimum fuel</p> <p>...indication of minimum fuel</p> <p><i>Note: A flight information service (FIS) unit will not provide information on delay.</i></p>	<p>a)* MINIMUM FUEL;</p> <p>b) ROGER; [NO DELAY EXPECTED or expected <i>(delay information)</i>]</p> <p>*** <i>Denotes pilot transmission</i></p>	<p>*</p> <p>ÿ ÿ</p>	
<p>1.1.4 Transfer of control and/or frequency change</p>	<p>a) CONTACT <i>(unit call sign)</i> <i>(frequency)</i> [NOW];</p> <p>b) AT <i>(or OVER)</i> <i>(time or place)</i> [or WHEN] [PASSING/LEAVING/REACHING <i>(level)</i>] CONTACT <i>(unit call sign)</i> <i>(frequency)</i>;</p> <p>c) IF NO CONTACT <i>(instructions)</i>;</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	

<p><i>Note: An aircraft may be requested to "STAND BY" on a frequency when it is intended that the ATS unit will initiate communications soon.</i></p> <p><i>Note: An aircraft may be requested to 'MONITOR' a frequency when information is being broadcast thereon.</i></p>	<p>d) STAND BY FOR (<i>unit call sign</i>) (<i>frequency</i>);</p> <p>e)* REQUEST CHANGE TO (<i>frequency</i>);</p> <p>f) FREQUENCY CHANGE APPROVED;</p> <p>g) MONITOR (<i>unit call sign</i>) (<i>frequency</i>);</p> <p>h)* MONITORING (<i>frequency</i>);</p> <p>i) WHEN READY CONTACT (<i>unit call sign</i>) (<i>frequency</i>);</p> <p>j) REMAIN THIS FREQUENCY.</p> <p>*** Denotes pilot transmission</p>	<p>ÿ ÿ</p> <p>*</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>*</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	
<p>1.1.5 8.33 kHz channel spacing</p> <p>...to request confirmation of 8.33 kHz capability</p> <p>...to indicate 8.33 kHz capability</p> <p>...to indicate lack of 8.33 kHz capability</p> <p>...to request UHF capability</p> <p>...to indicate UHF capability</p> <p>...to indicate lack of UHF capability</p> <p>...to request the status in respect of exemption</p> <p>...to indicate 8.33 kHz exemption status</p> <p>...to indicate 8.33 kHz exemption status</p>	<p><i>Note 1: Mandatory carriage of 8.33 equipment not required in the ICAO NAT-Region.</i></p> <p><i>Note 2: In this paragraph, the term "point" is used only in the context of naming the 8.33 kHz channel spacing concept and does not constitute any change to existing ICAO provisions or phraseology regarding the use of the term "decimal".</i></p> <p>a) CONFIRM EIGHT POINT THREE THREE; ÿ ÿ</p> <p>b)* AFFIRM EIGHT POINT THREE THREE;</p> <p>c)* NEGATIVE EIGHT POINT THREE THREE;</p> <p>d) CONFIRM UHF;</p> <p>e)* AFFIRM UHF;</p> <p>f)* NEGATIVE UHF;</p> <p>g) CONFIRM EIGHT POINT THREE THREE EXEMPT;</p> <p>h)* AFFIRM EIGHT POINT THREE THREE EXEMPT;</p> <p>i)* NEGATIVE EIGHT POINT THREE THREE EXEMPT;</p>	<p>ÿ ÿ</p> <p>*</p> <p>*</p> <p>ÿ ÿ</p> <p>*</p> <p>*</p> <p>ÿ ÿ</p> <p>*</p> <p>*</p>	

<p>...to indicate that a certain clearance is given because otherwise a non-equipped and/or non-exempt aircraft would enter airspace of mandatory carriage</p>	<p>j) DUE EIGHT POINT THREE THREE REQUIREMENT.</p> <p>* Denotes pilot transmission</p>	<p>ÿ ÿ</p>	
<p>1.1.6 Change of call sign</p> <p>...to instruct an aircraft to change its type of call sign</p> <p>... to advise an aircraft to revert to the call sign indicated in the flight plan</p>	<p>a) CHANGE YOUR CALL SIGN TO (<i>new call sign</i>) [UNTIL FURTHER ADVISED];</p> <p>b) REVERT TO FLIGHT PLAN CALL SIGN (<i>call sign</i>) [AT (<i>significant point</i>)].</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p>	
<p>1.1.7 Traffic information</p> <p>... to pass traffic information</p> <p>... to acknowledge traffic information</p>	<p>a) TRAFFIC (<i>information</i>);</p> <p>b) NO REPORTED TRAFFIC;</p> <p>c)* LOOKING OUT;</p> <p>d)* TRAFFIC IN SIGHT;</p> <p>e)* NEGATIVE CONTACT [<i>reasons</i>];</p> <p>f) [ADDITIONAL] TRAFFIC (<i>direction</i>) BOUND (<i>type of aircraft</i>) (<i>level</i>) ESTIMATED (<i>or OVER</i>) (<i>significant point</i>) AT (<i>hour</i>);</p> <p>g) TRAFFIC IS (<i>classification</i>) UNMANNED FREE BALLOON(S) WAS [<i>or ESTIMATED</i>] OVER (<i>place</i>) AT (<i>time</i>) REPORTED (<i>level(s)</i>) [<i>or LEVEL UNKNOWN</i>] MOVING (<i>direction</i>) (<i>other pertinent information, if any</i>).</p> <p>*** Denotes pilot transmission</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>*</p> <p>*</p> <p>*</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	
<p>1.1.8 Meteorological conditions</p>	<p>a) [SURFACE] WIND (<i>number</i>) DEGREES (<i>speed</i>) (<i>units</i>);</p> <p>b) WIND AT (<i>level</i>) (<i>number</i>) DEGREES (<i>number</i>) KNOTS (<i>or KILOMETERS PER HOUR</i>);</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p>	

	<i>Note: Wind is always expressed by giving the mean direction and speed and any significant variations thereof.</i>	ÿ ÿ
	c) VISIBILITY (<i>distance</i>) (<i>units</i>) [<i>direction</i>];	ÿ ÿ
	d) RUNWAY VISUAL RANGE (<i>or</i> RVR) [RUNWAY (<i>number</i>)] (<i>distance</i>) (<i>units</i>);	ÿ ÿ
	e) RUNWAY VISUAL RANGE (<i>or</i> RVR) RUN- WAY (<i>number</i>) NOT AVAILABLE (<i>or</i> NOT REPORTED);	ÿ ÿ
...for multiple RVR observations	f) RUNWAY VISUAL RANGE (<i>or</i> RVR) [RUNWAY (<i>number</i>)] (<i>first position</i>) (<i>dis-tance</i>) (<i>units</i>), (<i>second position</i>) (<i>distance</i>) (<i>units</i>), (<i>third</i> <i>position</i>) (<i>distance</i>) (<i>units</i>);	ÿ ÿ
	<i>Note 1: Multiple RVR observations are always representative of the touchdown zone, midpoint zone and the roll-out/ stop end zone respectively-ly.</i>	
	<i>Note 2: Where report for three locations are given, the indication of these locations may be omitted, provided that the reports are passed in the order of touchdown zone, followed by the midpoint zone and ending the roll- out/ stop end zone report.</i>	
... in the event that RVR informs mation on any one position is not available this information will be included in the appropriate sequence	g) RUNWAY VISUAL RANGE (<i>or</i> RVR) [RUNWAY (<i>number</i>)] (<i>first position</i>) (<i>dis-tance</i>) (<i>units</i>), (<i>second position</i>) NOT AVAILABLE, (<i>third position</i>) (<i>distance</i>) (<i>units</i>);	ÿ ÿ
	h) PRESENT WEATHER (<i>details</i>);	ÿ ÿ
	i) CLOUD (<i>amount</i> , [(<i>type</i>)] and <i>height of base</i>) (<i>units</i>) (<i>or</i> SKY CLEAR);	ÿ ÿ
	j) CAVOK; <i>Note: Pronounced CAV-O-KAY.</i>	ÿ ÿ
	k) TEMPERATURE [MINUS] (<i>number</i>) (<i>and</i> / <i>or</i> DEWPOINT [MINUS] (<i>number</i>));	ÿ ÿ
	l) QNH (<i>number</i>) [<i>units</i>];	ÿ ÿ
	m) QFE (<i>number</i>) [(<i>units</i>)];	ÿ ÿ
	n) (<i>aircraft type</i>) REPORTED (<i>description</i>) IC- ING (<i>or</i> TURBULENCE) [IN CLOUD] (<i>ar-ear</i>) (<i>hour</i>);	ÿ ÿ
	o) REPORT FLIGHT CONDITIONS;	ÿ ÿ

<p>...information to a pilot changing from IFR flight to VFR flight where it is probably that flight in VMC cannot be maintained</p>	<p>p) INSTRUMENT METEOROLOGICAL CONDITIONS REPORTED (or FORECAST) IN THE VICINITY OF (location).</p>	<p>ÿ ÿ</p>	
<p>1.1.9 Position reporting</p> <p>... to omit position reports until a specified position</p>	<p>a) NEXT REPORT AT (significant point);</p> <p>b) OMIT POSITION REPORTS [UNTIL (specify)];</p> <p>c) RESUME POSITION REPORTING.</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	
<p>1.1.10 Additional reports</p> <p>... to request a report at a specified place or distance</p> <p>... to report at a specified place or distance</p> <p>... to request a report of present position</p> <p>...to report present position</p>	<p>a) REPORT PASSING (significant point);</p> <p>b) REPORT (distance) MILES (GNSS or DME) FROM (name of DME station) (or significant point);</p> <p>c)* (distance) MILES (GNSS or DME) FROM (name of DME station) (or significant point);</p> <p>d) REPORT PASSING (three digits) RADIAL (name of VOR) VOR;</p> <p>e) REPORT (GNSS or DME) DISTANCE FROM (significant point) or (name of DME station);</p> <p>f)* (distance) MILES (GNSS or DME) FROM (name of DME station) (or significant point).</p> <p>*** Denotes pilot transmission</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>*</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>*</p>	
<p>1.1.11 Aerodrome information</p> <p>Note: This information is provided for runway thirds or the full runway, as applicable.</p>	<p>a) [(location)] RUNWAY (number) SURFACE CONDITION [CODE (three-digit number)];</p> <p>followed as necessary by:</p> <p>1) ISSUED AT (date and time UTC);</p>	<p>ÿ ÿ</p>	

<p><i>Note: Not applicable in Denmark.</i></p>	<ol style="list-style-type: none"> 2) DRY, <i>or</i> WET ICE, <i>or</i> WATER ON TOP OF COMPACTED SNOW, <i>or</i> DRY SNOW, <i>or</i> DRY SNOW ON TOP OF ICE, <i>or</i> WET SNOW ON TOP OF ICE, <i>or</i> ICE, <i>or</i> SLUSH, <i>or</i> STANDING WATER, <i>or</i> COMPACTED SNOW, <i>or</i> WET SNOW, <i>or</i> DRY SNOW ON TOP OF COMPACTED SNOW, <i>or</i> WET SNOW ON TOP OF COMPACTED SNOW, <i>or</i> WET <i>or</i> SLIPPERY WET <i>or</i> SPECIALLY PREPARED WINTER RUNWAY <i>or</i> FROST; 3) DEPTH (<i>depth of deposit</i>) MILLIMETRES <i>or</i> NOT REPORTED); 4) COVERAGE (<i>number</i>) PER CENT <i>or</i> NOT REPORTED); 5) ESTIMATED SURFACE FRICTION (GOOD, <i>or</i> GOOD TO MEDIUM, <i>or</i> MEDIUM, <i>or</i> MEDIUM TO POOR, <i>or</i> POOR, <i>or</i> LESS THAN POOR); 6) AVAILABLE WIDTH (<i>number</i>) METRES; 7) LENGTH REDUCED TO (<i>number</i>) METRES; 8) DRIFTING SNOW; 9) LOOSE SAND; 10) CHEMICALLY TREATED; 11) SNOWBANK (<i>number</i>) METRES [LEFT, <i>or</i> RIGHT, <i>or</i> LEFT AND RIGHT] [OF <i>or</i> FROM] CENTER LINE; 12) TAXIWAY (<i>identification of taxiway</i>) SNOWBANK (<i>number</i>) METRES [LEFT, <i>or</i> RIGHT, <i>or</i> LEFT AND RIGHT] [OF <i>or</i> FROM] CENTER LINE; 13) ADJACENT SNOWBANKS; 14) TAXIWAY (<i>identification of taxiway</i>) POOR; 15) APRON (<i>identification of apron</i>) POOR; 16) Plain-language remarks; 	
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	<p>b) <i>[(location)]</i> RUNWAY SURFACE CONDITION RUNWAY <i>(number)</i> NOT CUR- CLEAN;</p> <p>c) LANDING SURFACE <i>(condition)</i>;</p> <p>d) CAUTION CONSTRUCTION WORK <i>(location)</i>;</p> <p>e) CAUTION <i>(specify reasons)</i> RIGHT <i>(or LEFT)</i>, <i>(or BOTH SIDES)</i> OF RUNWAY <i>[(number)]</i>;</p> <p>f) CAUTION WORK IN PROGRESS <i>(or OB- STRUCTION)</i> <i>(position and any necessary advice)</i>;</p> <p>g) BRAKING ACTION REPORTED BY <i>(air- craft type)</i> AT <i>(hour)</i> GOOD <i>(or GOOD TO MEDIUM, or MEDIUM, or MEDIUM TWO POOR, or POOR)</i>;</p> <p>h) TAXIWAY <i>(identification of taxiway)</i> WET <i>[or STANDING WATER, or SNOW RE- MOVED (length and width as applicable), or CHEMICALLY TREATED, or COVERED WITH PATCHES OF DRY SNOW (or WET SNOW, or COMPACTED SNOW, or SLUSH, or FROZEN SLUSH, or ICE, or WET ICE, or ICE UNDERNEATH, or ICE AND SNOW, or SNOWDRIFTS, or FRO- ZEN RUTS AND RIDGES or LOOSE TRUE)]</i>;</p> <p>i) <i>(ATS unit call sign)</i> OBSERVES <i>(weather information)</i>;</p> <p>j) PILOT REPORTS <i>(weather information)</i>.</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	
1.1.12 Operational status of visual and non-visual aids	<p>a) <i>(specify visual or non-visual aid)</i> RUNWAY <i>(number)</i> <i>(description of deficiency)</i>;</p> <p>b) <i>(type)</i> LIGHTING <i>(unserviceability)</i>;</p> <p>c) GBAS/SBAS/MLS/ILS CATEGORY <i>(category)</i> <i>(serviceability state)</i>;</p> <p>d) TAXIWAY LIGHTING <i>(description of deficiency)</i>;</p> <p>e) <i>(type of visual approach slope indicator)</i> RUNWAY <i>(number)</i> <i>(description of deficiency)</i>.</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	

<p>1.1.13 Reduced vertical separation minimum (RVSM) operations</p> <p>... to ascertain the RVSM approval status of an aircraft</p> <p>...to report RVSM approved status</p> <p>... to report RVSM non-approval status followed by supplementary information</p> <p>... to deny ATC clearance into RVSM airspace</p> <p>... to report when severe turbulence affects the capability of an aircraft to maintain the height-keeping requirements for RVSM</p> <p>... to report that the equipment of an aircraft has degraded below minimum aviation system performance standards</p> <p>... to request an aircraft to provide information as soon as RVSM-approved status has been regained or the pilot is ready to resume RVSM operations</p> <p>... to request confirmation that an aircraft has regained RVSM-approved status or a pilot is ready to resume RVSM operations</p> <p>...to report ability to resume RVSM operations after an equipment or weather-related contingency</p>	<p>a) CONFIRM RVSM APPROVED;</p> <p>b)* AFFIRM RVSM;</p> <p>c) NEGATIVE RVSM [(supplementary information, eg State aircraft)];</p> <p>d) UNABLE ISSUE CLEARANCE INTO RVSM AIRSPACE, MAINTAIN [or DESCEND TO, or CLIMB TO] (level);</p> <p>e)* UNABLE RVSM DUE TURBULENCE;</p> <p>f)* UNABLE RVSM DUE EQUIPMENT;</p> <p>g) REPORT WHEN ABLE TO RESUME RVSM;</p> <p>h) CONFIRM ABLE TO RESUME RVSM;</p> <p>i)* READY TO RESUME RVSM.</p> <p>*** Denotes pilot transmission.</p>	<p>ÿ ÿ</p> <p>*</p> <p>*</p> <p>ÿ ÿ</p> <p>*</p> <p>*</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>*</p>	
<p>1.1.14 GNSS service status</p>	<p>a)* GNSS REPORTED UNRELIABLE (or GNSS MAY NOT BE AVAILABLE [DUE TO INTERFERENCE]);</p>	<p>ÿ ÿ</p>	

	<p>1) IN THE VICINITY OF <i>(location)</i> <i>(radius)</i> [BETWEEN <i>(levels)</i>];</p> <p><i>or</i></p> <p>2) IN THE AREA OF <i>(description)</i> <i>(or IN (name) FIR)</i> [BETWEEN <i>(levels)</i>];</p> <p>b) BASIC GNSS <i>(or SBAS, or GBAS)</i> UNAVAILABLE FOR <i>(specify operation)</i> [FROM <i>(hour)</i> TO <i>(hour)</i> <i>(or UNTIL FURTHER NOTICE)</i>];</p> <p>c)* BASIC GNSS UNAVAILABLE [DUE TO <i>(reason eg LOSS OF RAIM or RAIM ALERT)</i>];</p> <p>d)* GBAS <i>(or SBAS)</i> UNAVAILABLE;</p> <p>e) CONFIRM GNSS NAVIGATION; spirit</p> <p>f)* AFFIRM GNSS NAVIGATION.</p> <p>^{***} <i>Denotes pilot transmission.</i></p>	<p>ÿ ÿ</p> <p>*</p> <p>*</p> <p>ÿ ÿ</p> <p>*</p>	
1.1.15 RNAV	<p>...RNAV arrival or departure procedure cannot be accepted by the pilot</p> <p>...pilot is unable to comply with an assigned terminal area procedure</p> <p>..ATC unable to assign an RNAV arrival or departure procedure requested by the pilot due to the type of on-board RNAV equipment</p> <p>..ATC unable to assign an arrival or departure procedure requested by the pilot</p> <p>...confirmation whether a specific RNAV arrival or departure procedure can be accepted</p> <p>..informing ATC of RNAV degradation or failure</p> <p>..informing ATC of no RNAV capability</p> <p>a*) UNABLE <i>(designator)</i> DEPARTURE [or ARRIVAL] DUE RNAV TYPE;</p> <p>b)* UNABLE <i>(designator)</i> DEPARTURE [or ARRIVAL] <i>(reasons)</i>;</p> <p>c) UNABLE TO ISSUE <i>(designator)</i> DEPARTURES [or ARRIVAL] DUE RNAV TYPE;</p> <p>d) UNABLE TO ISSUE <i>(designator)</i> DEPARTURES [or ARRIVAL] <i>(reasons)</i>;</p> <p>e) ADVISE IF ABLE <i>(designator)</i> DEPARTURES [or ARRIVAL];</p> <p>f)* <i>(aircraft call sign)</i> UNABLE RNAV DUE EQUIPMENT;</p> <p>g)* <i>(aircraft call sign)</i> NEGATIVE RNAV;</p> <p>^{***} <i>Denotes pilot transmission.</i></p>	<p>*</p> <p>*</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>*</p> <p>*</p>	

1.1.16 Degradation of aircraft navigation performance	<p>* UNABLE RNP (<i>specify type</i>) (or RNAV) [DUE TO (<i>reason eg LOSS OF RAIM or RAIM ALERT</i>)].</p> <p>** Denotes pilot transmission.</p>	<p>*</p>	
1.2 En-route air traffic services			
1.2.1 Issuance of a clearance	<p>a) (<i>name of unit</i>) CLEARS (<i>aircraft call sign</i>); ÿ ÿ</p> <p>b) (<i>aircraft call sign</i>) CLEARED TO; ÿ ÿ</p> <p>c) RECLEARED (<i>amended clearance details</i>) [REST OF CLEARANCE UNCHANGED]; ÿ ÿ</p> <p>d) RECLEARED (<i>amended route portion</i>) TO (<i>significant point of original route</i>) [REST OF CLEARANCE UNCHANGED]; ÿ ÿ</p> <p>e) ENTER CONTROLLED AIRSPACE (<i>or CONTROL ZONE</i>) [VIA (<i>significant point or route</i>)] AT (<i>level</i>) [AT (<i>time</i>)]; ÿ ÿ</p> <p>f) LEAVE CONTROLLED AIRSPACE (<i>or CONTROL ZONE</i>) [VIA (<i>significant point or route</i>)] AT (<i>level</i>) (<i>or CLIMBING TO (level), or DESCENDING TO (level)</i>); ÿ ÿ</p> <p>g) JOIN (<i>specify</i>) AT (<i>significant point</i>) AT (<i>level</i>) [AT (<i>time</i>)]. ÿ ÿ</p>		
1.2.2 Indication of route and clearance limit	<p>a) FROM (<i>location</i>) TO (<i>location</i>); ÿ ÿ</p> <p>b) TWO (<i>location</i>), ÿ ÿ</p> <p><i>followed as necessary by:</i></p> <p>1) DIRECT; ÿ ÿ</p> <p>2) VIA (<i>route and/or significant points</i>); ÿ ÿ</p> <p>3) VIA FLIGHT PLANNED ROUTE; ÿ ÿ</p> <p>4) VIA (<i>distance</i>) DME ARC (<i>direction</i>) OF (<i>name of DME station</i>); ÿ ÿ</p>		

	c) (route) NOT AVAILABLE DUE (reason) ALTERNATIVE[S] IS/ARE (routes) ADVISE.	ÿ ÿ	
1.2.3 Maintenance of specified levels	<p><i>Note: The term "MAINTAIN" is not to be used in lieu of "DESCEND" or "CLIMB" when instructing an aircraft to change level.</i></p> <p>a) MAINTAIN (level) [TO (significant point)];</p> <p>b) MAINTAIN (level) UNTIL PASSING (significant point or);</p> <p>c) MAINTAIN (level) UNTIL (minutes) AFTER PASSING (significant point);</p> <p>d) MAINTAIN (level) UNTIL (hour);</p> <p>e) MAINTAIN (level) UNTIL ADVISED BY (name of unit);</p> <p>f) MAINTAIN (level) UNTIL FURTHER AD-SHOWN;</p> <p>g) MAINTAIN (level) WHILE IN CON-TROLLED AIRSPACE;</p> <p>h) MAINTAIN BLOCK (level) TWO (level).</p>	ÿ ÿ ÿ ÿ ÿ ÿ ÿ ÿ ÿ ÿ ÿ ÿ ÿ ÿ ÿ ÿ	
1.2.4 Specification of cruising levels	<p>a) CROSS (significant point) AT (or ABOVE, or BELOW) (level);</p> <p>b) CROSS (significant point) AT (hour) OR LATER (or BEFORE) AT (level);</p> <p>c) CRUISE CLIMB BETWEEN (levels) (or ABOVE (level));</p> <p>d) CROSS (distance) MILES, (GNSS or DME) [(direction)] OF (name of DME station) DME AT (or ABOVE, or BELOW) (level).</p>	ÿ ÿ ÿ ÿ ÿ ÿ ÿ ÿ	
1.2.5 Emergency descent	<p>a) EMERGENCY DESCENT (intentions);</p> <p>b) ATTENTION ALL AIRCRAFT IN THE VI-CINITY OF [or AT] (significant point or location) EMERGENCY DESCENT IN PRO-GRESS FROM (level) (followed as necessary by specific instructions, clearances, traffic information, etc.).</p> <p>^{***} Denotes pilot transmission.</p>	* ÿ ÿ	
<i>Note: FIC and AFIS units are entitled only to provide information, and to relay clearances and instructions on behalf of ATC units.</i>			

<p>1.2.6 If clearance cannot be issued immediately upon request</p>	<p>EXPECT CLEARANCE <i>(or type of clearance)</i> AT <i>(hour)</i>.</p>	<p>ÿ ÿ</p>	
<p>1.2.7 When clearance for deviation cannot be issued</p>	<p>. UNABLE, TRAFFIC <i>(direction)</i> BOUND <i>(type of aircraft)</i> <i>(level)</i> ESTIMATED <i>(or OVER)</i> <i>(significant point)</i> AT <i>(time)</i> CALL SIGN <i>(call sign)</i> ADVISE INTENTIONS.</p>	<p>ÿ ÿ</p>	
<p>1.2.8 Separation instructions</p> <p>Note: When used to apply a lateral VOR/GNSS separation confirmation of zero offset is required.</p>	<p>a) CROSS <i>(significant point)</i> AT <i>(hour)</i> [OR LATER <i>(or OR BEFORE)</i>];</p> <p>b) ADVISE IF ABLE TO CROSS <i>(significant point)</i> AT <i>(level or time)</i>;</p> <p>c) MAINTAIN MACH <i>(number)</i> [OR GREAT- IS <i>(or OR LESS)</i>] [UNTIL <i>(significant point)</i>];</p> <p>d) DO NOT EXCEED MACH <i>(number)</i>;</p> <p>e) CONFIRM ESTABLISHED ON THE TRACK BETWEEN <i>(significant point)</i> AND <i>(significant point)</i> [WITH ZERO OFFSET];</p> <p>f)* ESTABLISHED ON THE TRACK BETWEEN <i>(significant point)</i> AND <i>(significant point)</i> [WITH ZERO OFFSET];</p> <p>g) MAINTAIN TRACK BETWEEN <i>(significant point)</i> AND <i>(significant point)</i>. REPORT ESTABLISHED ON THE TRACK;</p> <p>h)* ESTABLISHED ON THE TRACK;</p> <p>i) CONFIRM ZERO OFFSET;</p> <p>j)* AFFIRM ZERO OFFSET.</p> <p>*** Denotes pilot transmission.</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>*</p> <p>ÿ ÿ</p> <p>*</p> <p>ÿ ÿ</p> <p>*</p>	
<p>1.2.9 Instructions associated with flying a track (offset), parallel to the cleared route</p>	<p>a) ADVISE IF ABLE TO PROCEED PARALLEL OFFSET;</p>	<p>ÿ ÿ</p>	

	<p>b) PROCEED OFFSET (<i>distance</i>) RIGHT/ LEFT OF (<i>route</i>) (<i>track</i>) [CENTER LINE] [AT (<i>significant point or time</i>)] [UNTIL (<i>significant point or time</i>)];</p> <p>c) CANCEL OFFSET (<i>instructions to rejoin cleared flight route or other information</i>).</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p>	
<p>1.2.10 Relaying clearances, instructions and information</p> <p>...confirmation or otherwise of the readback of clearance or instructions</p>	<p>a) (ATC unit) CLEARS (or INSTRUCTS) (or INFORMS) (<i>details of the clearance, instructions or information</i>);</p> <p>b) [THAT IS] CORRECT (or NEGATIVE) [I SAY AGAIN (ATC unit) CLEARS (or IN-STRUCTS) (<i>details of the clearance or the instruction</i>)].</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p>	
<p>1.3 Arrival and departure air traffic services</p>			
<p>1.3.1 Departure instruction</p> <p>Wed</p>	<p>a) [AFTER DEPARTURE] TURN RIGHT (or LEFT) HEADING (<i>three digits</i>) (or CONTI-CURRENT RUNWAY HEADING) (or TRACK EXTENDED CENTER LINE) TO (<i>level or significant point</i>) [(<i>other instructions as required</i>)];</p> <p>b) AFTER REACHING (or PASSING) (<i>level or significant point</i>) (<i>instructions</i>);</p> <p>c) TURN RIGHT (or LEFT) HEADING (<i>three digits</i>) TO (<i>level</i>) [TO INTERCEPT (<i>track, route, airway, etc.</i>)];</p> <p>d) (<i>standard departure name and number</i>) DEPARTURE;</p> <p>e) TRACK (<i>three digits</i>) DEGREES [MAGNETIC (or TRUE)] TO (or FROM) (<i>significant point</i>) (UNTIL (<i>time</i>), or REACHING (<i>fix or significant point or level</i>)) [BEFORE PROCEEDING ON COURSE];</p> <p>f) CLEARED VIA (<i>designation</i>);</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	

1.3.2 Approach instructions Wed			
<p><i>Note: The instrument approach procedure identification in the aeronautical chart is used to specify the type of approach. Where the identification uses a parenthetical suffix to include exceptional conditions, eg “(LNAV/VNAV only)” or “(AR)” etc., the text in the parentheses does not form part of the ATC clearance.</i></p> <p>... when a pilot requests a visual approach</p> <p>... to request if a pilot is able to accept a visual approach</p> <p>... in case of successive visual approaches when the pilot of a succeeding aircraft has reported the preceding aircraft in sight</p>	a) CLEARED (or PROCEED) VIA (designati- on);	ÿ ÿ	
	b) CLEARED TO (clearance limit) VIA (designation);	ÿ ÿ	
	c) CLEARED (or PROCEED) VIA (details of route to be followed);	ÿ ÿ	
	d) CLEARED (type of approach) APPROACH [RUNWAY (number)];	ÿ ÿ	
	e) CLEARED (type of approach) RUNWAY (number) FOLLOWED BY CIRCLING TO RUNWAY (number);	ÿ ÿ	
	f) CLEARED APPROACH [RUNWAY (num- ber)];	ÿ ÿ	
	g) COMMENCE APPROACH AT (hour);	ÿ ÿ	
	h)* REQUEST STRAIGHT-IN [(type of ap- proach)] APPROACH [RUNWAY (num-ber)];	*	
	i) CLEARED STRAIGHT-IN [(type of approach)] APPROACH [RUNWAY(number)];	ÿ ÿ	
	j) REPORT VISUAL;	ÿ ÿ	
	k) REPORT RUNWAY [LIGHTS] IN SIGHT; ÿ ÿ		
	l)* REQUEST VISUAL APPROACH;	*	
	m) CLEARED VISUAL APPROACH RUNWAY (number);	ÿ ÿ	
	n) ADVISE ABLE TO ACCEPT VISUAL AP- PROACH RUNWAY (number);	ÿ ÿ	
o) CLEARED VISUAL APPROACH RUNWAY (number), MAINTAIN OWN SEPARATION FROM PRECEDING (aircraft type and wake turbulence category as appropriate) [CAUTION WAKE TURBULENCE];	ÿ ÿ		
p) REPORT (significant point) [OUTBOUND, or INBOUND];	ÿ ÿ		
q) REPORT COMMENCING PROCEDURE TURN;	ÿ ÿ		

	<p>r)* REQUEST VMC DESCENT;</p> <p>s) MAINTAIN OWN SEPARATION;</p> <p>t) MAINTAIN VMC;</p> <p>u) ARE YOU FAMILIAR WITH <i>(name)</i> APPROACH PROCEDURE;</p> <p>v*) REQUEST <i>(type of approach)</i> APPROACH [RUNWAY <i>(number)</i>];</p> <p>*** Denotes pilot transmission.</p>	<p>*</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>*</p>	
<p>1.3.3 Holding clearances</p>			
<p>...visual</p>	<p>a) HOLD VISUAL [OVER] <i>(position)</i>, (or BETWEEN <i>(two prominent landmarks)</i>);</p>	<p>ÿ ÿ</p>	
<p>...published holding procedure over a facility or a fix</p>	<p>b) CLEARED (or PROCEED) TO <i>(significant point, name of facility or fix)</i> [MAINTAIN (or CLIMB or DESCEND TO)] <i>(level)</i> [HOLD <i>[(direction)]</i> AS PUBLISHED] EXPECT APPROACH CLEARANCE (or FURTHER CLEARANCE) AT <i>(hour)</i>;</p>	<p>ÿ ÿ</p>	
	<p>c)* REQUEST HOLDING INSTRUCTIONS;</p>	<p>*</p>	
<p>...when a detailed holding clearance is required</p>	<p>d) CLEARED (or PROCEED) TO <i>(significant point, name of facility or fix)</i> [MAINTAIN (or CLIMB or DESCEND TO)] <i>(level)</i> HOLD <i>[(direction)]</i> <i>[(specified) RADIAL, COURSE, INBOUND TRACK (three digits) DEGREES]</i> [RIGHT (or LEFT) HAND PATTERN] [OUTBOUND TIME <i>(number)</i> MINUTES] EXPECT APPROACH CLEARANCE (or FURTHER CLEARANCE) AT <i>(time)</i> <i>(additional instructions, if necessary)</i>;</p>	<p>ÿ ÿ</p>	
	<p>e) CLEARED TO THE <i>(three digits)</i> RADIAL OF THE <i>(name)</i> VOR AT <i>(distance)</i> DME FIX [MAINTAIN (or CLIMB or DESCEND TO)] <i>(level)</i> HOLD <i>(direction)</i> [RIGHT (or LEFT) HAND PATTERN] [OUTBOUND TIME <i>(number)</i> MINUTES] EXPECT APPROACH CLEARANCE (or FURTHER CLEARANCE) AT <i>(time)</i> <i>(additional instructions, if necessary)</i>;</p>	<p>ÿ ÿ</p>	

	<p>f) CLEARED TO THE <i>(three digits)</i> RADIAL OF THE <i>(name)</i> VOR AT <i>(distance)</i> DME FIX [MAINTAIN <i>(or CLIMB or DESCEND TO)</i>] <i>(level)</i> HOLD BETWEEN <i>(distance)</i> AND <i>(distance)</i> DME [RIGHT <i>(or LEFT)</i> HAND PATTERN] EXPECT APPROACH CLEARANCE <i>(or FURTHER CLEARANCE)</i> AT <i>(time)</i> <i>(additional instructions, if necessary)</i>.</p> <p>*** <i>Denotes pilot transmission.</i></p>	ÿ ÿ	
1.3.4 Expected approach hour	<p>a) NO DELAY EXPECTED;</p> <p>b) EXPECTED APPROACH TIME <i>(hour)</i>;</p> <p>c) REVISED EXPECTED APPROACH TIME <i>(hour)</i>;</p> <p>d) DELAY NOT DETERMINED <i>(reasons)</i>.</p>	ÿ ÿ ÿ ÿ ÿ ÿ ÿ ÿ	
1.4 Phraseologies for use on and in the vicinity of the aerodrome			
1.4.1 Identification of aircraft	SHOW LANDING LIGHTS.	ÿ ÿ	
1.4.2 Acknowledgment by visual means	<p>a) ACKNOWLEDGE BY MOVING AILERONS <i>(or RUDDER)</i>;</p> <p>b) ACKNOWLEDGE BY ROCKING WINGS; ÿ ÿ</p> <p>c) ACKNOWLEDGE BY FLASHING LANDING LIGHTS.</p>	ÿ ÿ ÿ ÿ ÿ ÿ	
1.4.3 Starting procedures			
... to request permission two starting engines	a)* <i>[aircraft location]</i> REQUEST START UP;	*	
	b)* <i>[aircraft location]</i> REQUEST START UP, INFORMATION <i>(ATIS identification)</i> ;	*	
...ATC response	c) START UP APPROVED;	ÿ ÿ	
	d) START UP AT <i>(hour)</i> ;	ÿ ÿ	

	<p>e) EXPECT START UP AT (<i>hour</i>);</p> <p>f) START UP AT OWN DISCRETION;</p> <p>g) EXPECT DEPARTURE (<i>hour</i>) START UP AT OWN DISCRETION.</p> <p>^{†††} Denotes pilot transmission.</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	
<p>1.4.4 Pushback procedure res</p> <p>...aircraft request</p> <p>...ATC response</p>	<p>a*) [<i>aircraft location</i>] REQUEST PUSH BACK;</p> <p>b) PUSHBACK APPROVED;</p> <p>c) STAND BY;</p> <p>d) PUSHBACK AT OWN DISCRETION;</p> <p>e) EXPECT (<i>number</i>) MINUTES DELAY DUE (<i>reason</i>).</p> <p>^{†††} Denotes pilot transmission.</p>	<p>*</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	
<p>1.4.5 Towing procedures</p> <p>...ATC response</p>	<p>a)† REQUEST TOW [<i>company name</i>] (<i>aircraft type</i>) FROM (<i>location</i>) TO (<i>location</i>);</p> <p>b) TOW APPROVED VIA (<i>specific routing to be followed</i>);</p> <p>c) HOLD POSITION;</p> <p>d) STAND BY.</p> <p>^{††} Denotes transmission from aircraft/ tow vehicle combination.</p>	<p>†</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	<p>†</p>
<p>1.4.6 To request time check and/or aerodrome data for departure</p> <p>...when no ATIS broadcast is available</p>	<p>a)* REQUEST TIME CHECK;</p> <p>b) HOUR (<i>hour</i>);</p> <p>c*) REQUEST DEPARTURE INFORMATION;</p>	<p>*</p> <p>ÿ ÿ</p> <p>*</p>	

<p>Note: If multiple visibility and RVR observations are available, those that represent the roll-out/stop end zone should be used for take-off.</p>	<p>d) RUNWAY (number), WIND (direction and speed) (units) QNH (or QFE) (number) [(units)] TEMPERATURE [MINUS] (number), [VISIBILITY (distance) (units) (or RUNWAY VISUAL RANGE (or RVR (distance) (units))] [TIME (hour)].</p> <p>** Denotes pilot transmission.</p>	<p>ÿ ÿ</p>	
<p>1.4.7 Taxi procedures</p> <p>... for departures</p> <p>...where detailed taxi instructions are required</p> <p>...where aerodrome information is not available from an alternative source such as ATIS</p> <p>... for helicopter operations</p>	<p>a)* [aircraft type] [wake turbulence category if "super" or "heavy"] [aircraft location] RE-QUEST TAXI [intentions];</p> <p>b)* [aircraft type] [wake turbulence category if "super" or "heavy"] [aircraft location] (flight rules) TO (aerodrome of destination) RE-QUEST TAXI [intentions];</p> <p>c) TAXI TO HOLDING POINT [number] RUNWAY (number) [HOLD SHORT OF RUNWAY (number) (or CROSS RUNWAY (number))] [TIME (hour)];</p> <p>d)* [aircraft type] [wake turbulence category if "super" or "heavy"] (aircraft location) RE-QUEST DETAILED TAXI INSTRUCTIONS;</p> <p>e) TAXI TO HOLDING POINT [number] [RUNWAY (number)] VIA (specific route to be followed) [TIME (time)]; [KEEP SHORT OF RUNWAY (number) (or CROSS RUNWAY (number))];</p> <p>f) TAXI TO HOLDING POINT [number] (followed by aerodrome information as applicable) [TIME (time)];</p> <p>g) TAKE (or TURN) FIRST (or SECOND) LEFT (or RIGHT);</p> <p>h) TAXI VIA (identification of taxiway);</p> <p>i) TAXI VIA RUNWAY (number);</p> <p>j) TAXI TO TERMINAL (or other location eg GENERAL AVIATION AREA) [STAND (number)];</p> <p>k)* REQUEST AIR-TAXIING FROM (or VIA) TO (location or routing as appropriate);</p>	<p>*</p> <p>*</p> <p>ÿ ÿ</p> <p>*</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>*</p>	

		l) AIR-TAXI TO (or VIA) (location or routing as appropriate) [CAUTION (dust, blowing snow, loose debris, taxiing light aircraft, personnel, etc.)];	ÿ ÿ	
		m) AIR TAXI VIA (direct, as requested, or specified route) TO (location, heliport, operating or movement area, active or inactive runway) AVOID (aircraft or vehicles or personnel);	ÿ ÿ	
	...after landing	n*) REQUEST BACKTRACK	*	
		o) BACKTRACK APPROVED;	ÿ ÿ	
		p) BACKTRACK RUNWAY (number);	ÿ ÿ	
	...general	q) [aircraft location] REQUEST TAXI TO (destination on aerodrome);	*	
		r) TAXI STRAIGHT AHEAD;	ÿ ÿ	
		s) TAXI WITH CAUTION;	ÿ ÿ	
		t) GIVE WAY TO (description and position of other aircraft);	ÿ ÿ	
		u)* GIVING WAY TO (traffic);	*	
		v)* TRAFFIC (or type of aircraft) IN SIGHT;	*	
		w) TAXI INTO HOLDING BAY;	ÿ ÿ	
		x) FOLLOW (description of other aircraft or vehicle);	ÿ ÿ	
		y) VACATE RUNWAY;	ÿ ÿ	
		z)* RUNWAY VACATED;	*	
		aa) EXPEDITE TAXI [(reason)];	ÿ ÿ	
		bb)*EXPEDITING;	*	
		cc) [CAUTION] TAXI SLOWER [(reason)];	ÿ ÿ	
		dd)*SLOWING DOWN.	*	
		*** Denotes pilot transmission.		
1.4.8	Holding (on ground)			
		a) HOLD (direction) OF (position, runway number, etc.) 1);	ÿ ÿ	
		b) HOLD POSITION1);	ÿ ÿ	

<p>... to hold not closer to a runway than specified</p>	<p>c) HOLD (<i>distance</i>) FROM (<i>position</i>)1);</p> <p>d) HOLD SHORT OF (<i>position</i>)1);</p> <p>e)* HOLDING;</p> <p>f)* HOLDING SHORT.</p> <p>¹⁾ Requires specific acknowledgment from the pilot.</p> <p>*** Denotes pilot transmission. The procedure words RO-GER and WILCO are insufficient acknowledgment of the instructions HOLD, HOLD POSITION and HOLD SHORT OF (<i>position</i>). In each case the acknowledgment shall be the phraseology HOLDING or HOLDING SHORT, as appropriate.</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>*</p> <p>*</p>	
<p>1.4.9 To cross a runway</p> <p>Note: The pilot will, when requested, report "RUNWAY VACATED" when the entire aircraft is beyond the relevant runway-holding position.</p>	<p>a)* REQUEST CROSS RUNWAY (<i>number</i>);</p> <p>Note: If the control tower is unable to see the crossing aircraft (eg night, low visibility, etc.), the instruction should always be accompanied by a request to report when the aircraft has cleared the runway.</p> <p>b) CROSS RUNWAY (<i>number</i>) [REPORT VACATED];</p> <p>c) EXPEDITE CROSSING RUNWAY (<i>number</i>) TRAFFIC (<i>aircraft type</i>) (<i>distance</i>) MILES (or KILOMETERS) FINAL;</p> <p>d) TAXI TO HOLDING POINT [number] [RUNWAY (<i>number</i>)] VIA (<i>specific route to be followed</i>), [HOLD SHORT OF RUNWAY (<i>number</i>)] or [CROSS RUNWAY (<i>number</i>)];</p> <p>e) REPORT RUNWAY (<i>number</i>) VACATED; ÿ ÿ</p> <p>f)* RUNWAY VACATED.</p> <p>*** Denotes pilot transmission</p>	<p>*</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>*</p>	
<p>1.4.10 Preparation for take-off</p>	<p>a) UNABLE TO ISSUE (<i>designator</i>) DEPARTURES (<i>reasons</i>);</p> <p>b) REPORT WHEN READY [FOR DEPARTURES];</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p>	

	c) ARE YOU READY [FOR DEPARTURE]?; ÿ ÿ	
	d) ARE YOU READY FOR IMMEDIATE DEPARTURE?;	ÿ ÿ
	e)* READY;	*
... clearance to enter runway and await take-off clearance	f) LINE UP [AND WAIT];	ÿ ÿ
	g) LINE UP RUNWAY (<i>number</i> 1);	ÿ ÿ
	h) LINE UP. BE READY FOR IMMEDIATE DEPARTURE;	ÿ ÿ
... conditional clearance	i) (<i>condition</i>) LINE UP (<i>brief reiteration of the condition</i>);	ÿ ÿ
... acknowledgment of a conditional clearance	j)* (<i>condition</i>) LINING UP (<i>brief reiteration of the condition</i>);	*
...confirmation or otherwise of the readback of a conditional clearance	k) [THAT IS] CORRECT (<i>or</i>) NEGATIVE [I SAY AGAIN] (<i>as appropriate</i>).	ÿ ÿ
...request for departure from an intersection take-off position	l*) REQUEST DEPARTURE FROM RUNWAY (<i>number</i>), INTERSECTION (<i>designation or name of intersection</i>);	*
...approval of requested departure from an intersection take-off position	m) APPROVED, TAXI TO HOLDING POINT RUNWAY (<i>number</i>), INTERSECTION (<i>designation or name of intersection</i>);	ÿ ÿ
...denial of requested departure from an intersection take-off position	n) NEGATIVE, TAXI TO HOLDING POINT RUNWAY (<i>number</i>), INTERSECTION (<i>designation or name of intersection</i>);	ÿ ÿ
...ATC-initiated intersection take-off	o) ADVISE ABLE TO DEPART FROM RUNWAY (<i>number</i>), INTERSECTION (<i>designation or name of intersection</i>);	ÿ ÿ
...advising take-off run available from an intersection take-off position	p) TORA RUNWAY (<i>number</i>), FROM INTERSECTION (<i>designation or name of intersection</i>), (<i>distance</i>) METRES; <i>Note: 'TORA' is pronounced 'TOR-AH'.</i>	ÿ ÿ
...issuing multiple line-up instructions	q)* LINE UP AND WAIT RUNWAY (<i>number</i>), INTERSECTION (<i>name of intersection</i>), (<i>essential local traffic information</i>);	ÿ ÿ
...request for a visual departure	r)* REQUEST VISUAL DEPARTURE [DIRECT] TO/UNTIL (<i>navaid, waypoint, alti-tude</i>);	see the note
<i>Note: Procedure not applied in Denmark, Faroe Islands and Greenland.</i>		

<p>...ATS-initiated visual departure</p> <p><i>Note: Procedure not applied in Denmark, Faroe Islands and Greenland.</i></p> <p>...clearance for visual departure</p> <p><i>Note: Procedure not applied in Denmark, Faroe Islands and Greenland</i></p> <p>...read-back of visual departure clearance</p> <p><i>Note: Procedure not applied in Denmark, Faroe Islands and Greenland.</i></p>	<p>s) ADVISE ABLE TO ACCEPT VISUAL DEPARTURE [DIRECT] TO/UNTIL (<i>navaid, waypoint/altitude</i>);</p> <p>t) VISUAL DEPARTURE RUNWAY (<i>number</i>) APPROVED, TURN LEFT/RIGHT [DIRECT] TO (<i>navaid, heading, waypoint</i>) [MAINTAIN VISUAL REFERENCE UNTIL (<i>altitude</i>)];</p> <p>u)* VISUAL DEPARTURE TO/UNTIL (<i>navaid, waypoint/altitude</i>).</p> <p>*** <i>Denotes pilot transmission</i></p> <p>1) <i>When there is the possibility of confusion during multiple runway operations.</i></p>	<p>see the note</p> <p>see the note</p> <p>see the note</p>
<p>1.4.11 Take-off clearance</p> <p>...when reduced runway separation is used</p> <p>... when take-off clearance has not been complied with</p> <p>... to cancel a take-off clearance</p> <p>...to stop a take-off after an aircraft has commenced take-off</p> <p>role</p> <p>...for helicopter operations</p>	<p>a) RUNWAY (<i>number</i>) CLEARED FOR TAKE-OFF [REPORT AIRBORNE];</p> <p>b) (<i>traffic information</i>) RUNWAY (<i>number</i>) CLEARED FOR TAKE-OFF;</p> <p>c) TAKE OFF IMMEDIATELY OR VACATE RUNWAY [(<i>instructions</i>)];</p> <p>d) TAKE OFF IMMEDIATELY OR HOLD SHORT OF RUNWAY;</p> <p>e) HOLD POSITION, CANCEL TAKE-OFF I SAY AGAIN CANCEL TAKE-OFF (<i>reasons</i>);</p> <p>f)* HOLDING;</p> <p>g) STOP IMMEDIATELY [(<i>repeat aircraft call sign</i>) STOP IMMEDIATELY];</p> <p>h)* STOPPING;</p> <p>i) CLEARED FOR TAKE-OFF [FROM (<i>location</i>)] (<i>present position, taxiway, final approach and take-off area, runway and number</i>);</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>*</p> <p>ÿ ÿ</p> <p>*</p> <p>ÿ ÿ</p>

	<p>j)* REQUEST DEPARTURE INSTRUCTIONS;</p> <p>k) AFTER DEPARTURE TURN RIGHT (or LEFT, or CLIMB) (instructions as appropriate).</p> <p>^{***} Denotes pilot transmission. HOLDING and STOPPING are the procedural responses to e) and g) respectively.</p>	<p>*</p> <p>ÿ ÿ</p>	
<p>1.4.12 Turn or climb instructions after take-off</p> <p>...to request airborne time</p> <p>...heading to be followed</p> <p>... when a specific track is to be followed</p>	<p>a)* REQUEST RIGHT (or LEFT) TURN;</p> <p>b) RIGHT (or LEFT) TURN APPROVED;</p> <p>c) WILL ADVISE LATER FOR RIGHT (or LEFT) TURN;</p> <p>d) REPORT AIRBORNE;</p> <p>e) AIRBORNE (hour);</p> <p>f) AFTER PASSING (level) (instructions);</p> <p>g) CONTINUE RUNWAY HEADING (instructions);</p> <p>h) TRACK EXTENDED CENTER LINE (instructions);</p> <p>i) CLIMB STRAIGHT AHEAD (instructions). ÿ ÿ</p> <p>^{***} Denotes pilot transmission.</p>	<p>*</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	
<p>1.4.13 Entering an aerodrome traffic circuit</p>	<p>a)* [aircraft type] (position) (level) FOR LANDING;</p> <p>b) JOIN [(direction of circuit)] (position in circuit) RUNWAY (number) [SURFACE] WIND (direction and speed) (units) [TEMPERATURE [MINUS] (number)] QNH (or QFE) (number) [(units)] [TRAFFIC (retail)];</p> <p>c) [(direction of circuit)] RUNWAY (number) [SURFACE] WIND (direction and speed) (units) [TEMPERATURE [MINUS] (number)] QNH (or QFE) (number) [units] [TRAFFIC (retail)];</p>	<p>*</p> <p>ÿ ÿ</p> <p>ÿ</p>	<p>ÿ</p>

<p>...when ATIS information is available</p>	<p>d) MAKE STRAIGHT-IN APPROACH, RUNWAY (number) [SURFACE] WIND (direction and speed) (units) [TEMPERATURE [MINUS] (number)] QNH (or QFE) (number) [(units)] [TRAFFIC (detail)];</p> <p>e)* (aircraft type) (position) (level) INFORMATION (ATIS identification) FOR LANDING;</p> <p>f) JOIN (position in circuit) RUNWAY (number) QNH (or QFE) (number) [(units)] [TRAFFIC (detail)];</p> <p>g) (direction of circuit) [RUNWAY (number)] QNH (or QFE) (number) [(units)] [TRAFFIC (detail)].</p> <p>*** Denotes pilot transmission.</p>	<p>ÿ ÿ</p> <p>*</p> <p>ÿ ÿ</p> <p>ÿ</p>	<p>ÿ</p>
<p>1.4.14 In the circuit</p>	<p>a)* (position in circuit, eg DOWNWIND or FI-NEEDLE);</p> <p>b) NUMBER ... FOLLOW (aircraft type and position) [additional instructions if required];</p> <p>c) TRAFFIC (detail) [additional information if required];</p> <p>d) REPORT (position in the circuit).</p> <p>*** Denotes pilot transmission.</p>	<p>*</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	
<p>1.4.15 Approach instructions Wed</p> <p>Note: The report "LONG FINAL" is made when an aircraft turns on to final approach at a distance greater than 4 NM from touchdown or when an aircraft on a straight-in approach is 8 NM from touchdown. In both cases a report "FINAL" is required at 4 NM from touchdown.</p>	<p>a) MAKE SHORT APPROACH;</p> <p>b) MAKE LONG APPROACH (or EXTEND DOWNWIND);</p> <p>c) REPORT BASE (or FINAL, or LONG FI-NEEDLE);</p> <p>d) CONTINUE APPROACH [PREPARE FOR POSSIBLE GO AROUND].</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	
<p>1.4.16 Landing clearance</p> <p>...when reduced runway separation is used</p> <p>...special operations</p>	<p>a) RUNWAY (number) CLEARED TO LAND; ÿ ÿ</p> <p>b) (traffic information) RUNWAY (number) CLEARED TO COUNTRY;</p> <p>c) CLEARED TOUCH AND GO;</p> <p>d) MAKE FULL STOP;</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	

<p>... to make an approach along, or parallel to a runway, descending to an agreed minimum level</p> <p>...to fly past the control tower or other observation point for the purpose of visual inspection by persons on the ground</p> <p>...for helicopter operations</p>	<p>e)* REQUEST LOW APPROACH (<i>reasons</i>);</p> <p>f) CLEARED LOW APPROACH [RUNWAY (<i>number</i>)] [(<i>altitude restriction if required</i>) (<i>go around instructions</i>)];</p> <p>g)* REQUEST LOW PASS (<i>reasons</i>);</p> <p>h) CLEARED LOW PASS [<i>as in f</i>];</p> <p>i*) REQUEST STRAIGHT-IN (<i>or CIRCLING APPROACH, LEFT (or RIGHT) TURN TO (location)</i>);</p> <p>j) MAKE STRAIGHT-IN (<i>or CIRCLING APPROACH, LEFT (or RIGHT) TURN TO (location, runway, taxiway, final approach and take off area)</i>) [ARRIVAL (<i>or ARRIVAL ROUTE</i>) (<i>number, name or code</i>)]. [HOLD SHORT OF (<i>active runway, extended run-way center line, other</i>)]. [REMAIN (<i>direction or distance</i>) FROM (<i>runway, runway center line, other helicopter or aircraft</i>)]. [CAUTION (<i>power lines, unlighted obstructions, wake turbulence, etc.</i>)]. CLEARED TO COUNTRY.</p> <p>*** Denotes pilot transmission.</p>	<p>*</p> <p>ÿ ÿ</p> <p>*</p> <p>ÿ ÿ</p> <p>*</p> <p>ÿ ÿ</p>	
<p>1.4.17 Delaying aircraft</p>	<p>a) CIRCLE THE AERODROME;</p> <p>b) ORBIT (RIGHT, <i>or</i> LEFT) [FROM PRESENT POSITION];</p> <p>c) MAKE ANOTHER CIRCUIT.</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	
<p>1.4.18 Missed Approach</p>	<p>a) GO AROUND;</p> <p>b)* GOING AROUND.</p> <p>*** Denotes pilot transmission.</p>	<p>ÿ ÿ</p> <p>*</p>	
<p>1.4.19 Information to aircraft</p> <p>...when pilot requested visual inspection of landing gear</p>	<p>a) LANDING GEAR APPEARS DOWN;</p> <p>b) RIGHT (<i>or</i> LEFT, <i>or</i> NOSE) WHEEL APPEARS UP (<i>or</i> DOWN);</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p>	

<p>...wake turbulence</p> <p>...jet blast on apron or taxiway</p> <p>...propeller-driven aircraft slipstream</p> <p>...other traffic</p> <p>...information on the actual use of the runway</p> <p><i>Note: Information on the actual use of the runway in points i) and j) may be provided to aircraft at any phase of the flight, in particular in the circuit and during the preparation for departure.</i></p>	<p>c) WHEELS APPEAR UP;</p> <p>d) RIGHT (or LEFT, or NOSE) WHEEL DOES NOT APPEAR UP (or DOWN);</p> <p>e) CAUTION WAKE TURBULENCE [FROM ARRIVING (or DEPARTING) (type of air-craft)] [additional information as required];</p> <p>f) CAUTION JET BLAST;</p> <p>g) CAUTION SLIPSTREAM;</p> <p>h) TRAFFIC (details);</p> <p>i) NO REPORTED TRAFFIC RUNWAY (number);</p> <p>j) RUNWAY (number) OCCUPIED [or BLOCKED BY] (details) [REPORT INTENTIONS].</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ</p> <p>ÿ ÿ</p>	<p>ÿ</p>
<p>1.4.20 Runway vacating and communications after landing</p> <p>... for helicopter operations</p>	<p>a) CONTACT GROUND (frequency);</p> <p>b) WHEN VACATED CONTACT GROUND (frequency);</p> <p>c) EXPEDITE VACATING;</p> <p>d) YOUR STAND (or GATE) (designation);</p> <p>e) TAKE (or TURN) FIRST (or SECOND, or CONVENIENT) LEFT (or RIGHT) AND CONTACT GROUND (frequency);</p> <p>f) AIR-TAXI TO HELICOPTER STAND (or HELICOPTER PARKING POSITION (area));</p> <p>g) AIR-TAXI TO (or VIA) (location or routing as appropriate) [CAUTION (dust, blowing snow, loose debris, taxiing light aircraft, personnel, etc.)];</p> <p>h) AIR-TAXI VIA (direct, as requested, or specified route) TO (location, heliport, operating or movement area, active or inactive runway). AVOID (aircraft or vehicles or personnel).</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	

1.5 Phraseologies to be used related to controller–pilot data link communications (CPDLC)			
1.5.1 Operational status			
..failure of a single CPDLC messages	a) [ALL STATIONS] CPDLC FAILURE <i>(instructions);</i>	ÿ ÿ	
...to correct CPDLC clearances, instructions, information or requests	b) CPDLC MESSAGE FAILURE <i>(appropriate clearance, instruction, information or request);</i>	ÿ ÿ	
...to instruct all stations or a specific flight to avoid sending CPDLC requests for a limited period of time	c) DISREGARD CPDLC <i>(message type)</i> MESSAGE, BREAK <i>(correct clearance, instruction, information or request);</i>	ÿ ÿ	
...to resume normal use of CPDLC	d) [ALL STATIONS] STOP SENDING CPDLC REQUESTS [UNTIL ADVISED] <i>[(reason)];</i>	ÿ ÿ	
	e) [ALL STATIONS] RESUME NORMAL CPDLC OPERATIONS.	ÿ ÿ	
2. ATS Surveillance service phraseologies			
<i>Note: The following comprise phraseologies specifically applicable when an ATS surveillance system is used in the provision of air traffic services. The phraseologies detailed in the sections above for use in the provision of air traffic services are also applicable, as appropriate, when an ATS surveillance system is used.</i>			
2.1 General ATS surveillance service phraseologies			
2.1.1 Identification of aircraft			
	a) REPORT HEADING [AND FLIGHT LEVEL <i>(or</i> ALTITUDE)];	ÿ ÿ	
	b) FOR IDENTIFICATION TURN LEFT <i>(or</i> RIGHT) HEADING <i>(three digits);</i>	ÿ ÿ	
	c) TRANSMIT FOR IDENTIFICATION AND REPORT HEADING;	ÿ ÿ	
	d) RADAR CONTACT <i>[position];</i>	ÿ ÿ	
	e) IDENTIFIED <i>[position];</i>	ÿ ÿ	
	f) NOT IDENTIFIED <i>[reason], [RESUME (or</i> CONTINUE) OWN NAVIGATION];	ÿ ÿ	

		g) NOT IDENTIFIED <i>[reason]</i> .	ÿ ÿ	
2.1.2	Position information			
		POSITION (<i>distance</i>) (<i>direction</i>) OF (<i>significant point</i>) (or OVER or ABEAM (<i>significant point</i>)).	ÿ ÿ	
2.1.3	Vectoring instruction			
	Wed			
		a) LEAVE (<i>significant point</i>) HEADING (<i>three digits</i>);	ÿ ÿ	
		b) CONTINUE HEADING (<i>three digits</i>);	ÿ ÿ	
		c) CONTINUOUS PRESENT HEADING;	ÿ ÿ	
		d) FLIGHT HEADING (<i>three digits</i>);	ÿ ÿ	
		e) TURN LEFT (or RIGHT) HEADING (<i>three digits</i>) <i>[reason]</i> ;	ÿ ÿ	
		f) TURN LEFT (or RIGHT) (<i>number of de-grees</i>) DEGREES <i>[reason]</i> ;	ÿ ÿ	
		g) STOP TURN HEADING (<i>three digits</i>);	ÿ ÿ	
		h) FLIGHT HEADING (<i>three digits</i>), WHEN ABLE PROCEED DIRECT (<i>name</i>) (<i>significant point</i>);	ÿ ÿ	
		i) HEADING IS GOOD.	ÿ ÿ	
2.1.4	Termination of vectoring			
		a) RESUME OWN NAVIGATION (<i>position of aircraft</i>) (<i>specific instructions</i>);	ÿ ÿ	
		b) RESUME OWN NAVIGATION [DIRECT] (<i>significant point</i>) [MAGNETIC] TRACK (<i>three digits</i>) DISTANCE (<i>number</i>) MILES (or KILOMETERS).	ÿ ÿ	
2.1.5	Maneuvers			
		a) MAKE A THREE SIXTY TURN LEFT (or RIGHT) <i>[reason]</i> ;	ÿ ÿ	
		b) ORBIT LEFT (or RIGHT) <i>[reason]</i> ;	ÿ ÿ	
	...(in case of unreliable directional instruments on board aircrafts)	c) MAKE ALL TURNS RATE ONE (or RATE HALF, or (<i>number</i>) DEGREES PER SECOND) START AND STOP ALL TURNS ON THE COMMAND "NOW";	ÿ ÿ	

<p><i>Note: When it is necessary to specify a reason for vectoring, or for the above mentioned manoeuvres, the following phraseologies should be used:</i></p> <p>i) DUE TRAFFIC; ii) FOR SPACING; iii) FOR DELAY; iv) FOR DOWNWIND (or BA-SE, or FINAL).</p>	<p>d) TURN LEFT (or RIGHT) NOW;</p> <p>e) STOP TURN NOW.</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p>	
<p>2.1.6 Speed control</p>	<p>a) REPORT SPEED;</p> <p>b)* SPEED (number) KNOTS (or KILOMETERS PER HOUR);</p> <p>c) MAINTAIN (number) KNOTS (or KILOMETRES PER HOUR) [OR GREATER (or OR LESS)] [UNTIL (significant point)];</p> <p>d) DO NOT EXCEED (number) KNOTS (or KILOMETERS PER HOUR);</p> <p>e) MAINTAIN PRESENT SPEED;</p> <p>f) INCREASE (or REDUCE) SPEED TO (number) KNOTS (or KILOMETERS PER HOUR) [OR GREATER (or OR LESS)];</p> <p>g) INCREASE (or REDUCE) SPEED BY (number) KNOTS (or KILOMETERS PER HOUR);</p> <p>h) RESUME NORMAL SPEED;</p> <p>i) REDUCE TO MINIMUM APPROACH SPEED;</p> <p>j) REDUCE TO MINIMUM CLEAN SPEED; ÿ ÿ</p> <p>k) NO [ATC] SPEED RESTRICTIONS.</p> <p><i>Note: An arriving aircraft may be instructed to maintain its 'maximum speed', 'minimum clean speed', 'minimum speed', or a specified speed. 'Minimum clean speed' signifies the minimum speed at which an aircraft can be flown in a clean configuration, ie without deployment of lift-augmentation devices, speed brakes or landing gear.</i></p> <p>^{***} Denotes pilot transmission.</p>	<p>ÿ ÿ</p> <p>*</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	

...for avoiding action	<p>e) TURN LEFT (or RIGHT) IMMEDIATELY HEADING (three digits) TO AVOID [UNIDENTIFIED] TRAFFIC (bearing by clock-reference and distance);</p> <p>f) TURN LEFT (or RIGHT) (number of degrees) DEGREES IMMEDIATELY TO AVOID [UNIDENTIFIED] TRAFFIC AT (bearing by clock-reference and distance).</p> <p>^{**} Denotes pilot transmission.</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p>	
<p>2.1.10 Communications and loss of communications</p> <p>...if loss of communications suspected</p>	<p>a) [IF] RADIO CONTACT LOST (instructions); ÿ ÿ</p> <p>b) IF NO TRANSMISSION RECEIVED FOR (number) MINUTES (or SECONDS) (instructions);</p> <p>c) REPLY NOT RECEIVED (instructions);</p> <p>d) IF YOU READ (maneuver instructions);</p> <p>e) IF YOU READ (SQUAWK (code) or IDENT);</p> <p>f) (maneuver, SQUAWK or IDENT) OBSERVED. POSITION (position of aircraft). [(instructions)].</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	
<p>2.1.11 Termination of radar and/or ADS-B service</p>	<p>a) RADAR SERVICE (or IDENTIFICATION) TERMINATED [DUE (reason)] (instructions);</p> <p>b) WILL SHORTLY LOSE IDENTIFICATION (appropriate instructions or information);</p> <p>c) IDENTIFICATION LOST [reasons] (instructions).</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	
<p>2.1.12 Radar and/or ADS-B equipment degradation</p>	<p>a) SECONDARY RADAR OUT OF SERVICE (appropriate information as necessary);</p> <p>b) PRIMARY RADAR OUT OF SERVICE (appropriate information as necessary);</p> <p>c) ADS-B OUT OF SERVICE (appropriate information as necessary).</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	

2.2 Radar in approach control service			
<p>2.2.1 Vectoring for approach</p> <p><i>Note: PAR approach not applied in Denmark, Faroe Islands and Greenland.</i></p>	<p>a) VECTORIZING FOR <i>(type of approach)</i> AP-APPROACH RUNWAY <i>(number)</i>;</p> <p>b) VECTORIZING FOR VISUAL APPROACH RUNWAY <i>(number)</i> REPORT FIELD <i>(or RUNWAY)</i> IN SIGHT;</p> <p>c) VECTORIZING FOR <i>(positioning in the circuit)</i>;</p> <p>d) VECTORIZING FOR SURVEILLANCE RADAR APPROACH RUNWAY <i>(number)</i>;</p> <p>e) VECTORIZING FOR PRECISION AP-APPROACH RUNWAY <i>(number)</i>;</p> <p>f) <i>(type)</i> APPROACH NOT AVAILABLE DUE <i>(reason)</i> <i>(alternative instructions)</i>.</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	
<p>2.2.2 Vectoring for ILS and other approach procedures</p> <p>... when a pilot wishes to be positioned a specific distance from touchdown</p> <p>... instructions and information</p>	<p>a) POSITION <i>(number)</i> MILES <i>(or KILOMETERS)</i> FROM <i>(fix)</i> TURN LEFT <i>(or RIGHT)</i> HEADING <i>(three digits)</i>;</p> <p>b) YOU WILL INTERCEPT (FINAL AP-PROACH COURSE <i>or radio aid</i>) <i>(distance)</i> FROM <i>(significant point or TOUCHDOWN)</i>;</p> <p>c)* REQUEST <i>(distance)</i> FINAL;</p> <p>d) CLEARED FOR <i>(type)</i> APPROACH RUNWAY <i>(number)</i>;</p> <p>e) REPORT ESTABLISHED ON LOCALIZER <i>(or ON [GLS/RNP/MLS] [FINAL] AP-PROACH [COURSE])</i>;</p> <p>f) CLOSING FROM LEFT <i>(or RIGHT)</i> [REPORT ESTABLISHMENT];</p> <p>g) TURN LEFT <i>(or RIGHT)</i> HEADING <i>(three digits)</i> [TO INTERCEPT] <i>or</i> [REPORT ESTABLISHED];</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>*</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	

	<p>h) EXPECT VECTOR ACROSS THE (LOCALIZER <i>or</i> [GLS/RNP/MLS] FINAL APPROACH COURSE <i>or radio aid</i>) (<i>reason</i>);</p> <p>i) THIS TURN WILL TAKE YOU THROUGH THE (LOCALIZER <i>or</i> [GLS/RNP/MLS] FINAL APPROACH COURSE <i>or radio aid</i>) [<i>reason</i>];</p> <p>j) TAKING YOU THROUGH THE (LOCALIZER <i>or</i> [GLS/RNP/MLS] FINAL APPROACH COURSE <i>or radio aid</i>) [<i>reason</i>];</p> <p>k) MAINTAIN (<i>altitude</i>) UNTIL GLIDE PATH INTERCEPTION;</p> <p>l) REPORT ESTABLISHED ON GLIDE PATH;</p> <p>m) INTERCEPT (LOCALIZER <i>or</i> [GLS/RNP/MLS] [FINAL] APPROACH [COURSE] <i>or radio aid</i>) [RUNWAY (<i>number</i>)] [REPORT ESTABLISHED].</p> <p>^{***} <i>Denotes pilot transmission.</i></p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	
<p>2.2.3 Maneuver during independent and dependent parallel approaches</p> <p>... for avoidance action when an aircraft is observed penetrating the NTZ</p> <p>...for avoidance action below 400 ft (120 m) above the runway threshold elevation where parallel approach obstacle assessment surfaces (PAOAS) criteria are being applied</p>	<p>a) CLEARED FOR (<i>type of approach</i>) APPROACH RUNWAY (<i>number</i>) LEFT (<i>or</i> RIGHT);</p> <p>b) YOU HAVE CROSSED THE LOCALIZER (<i>or</i> GLS/RNP/MLS FINAL APPROACH COURSE). TURN LEFT (<i>or</i> RIGHT) IMMEDIATELY AND RETURN TO THE LOCALIZER (<i>or</i> GLS/RNP/MLS FINAL APPROACH COURSE) [RUNWAY (<i>number</i>)];</p> <p>c) ILS (<i>or</i> MLS) RUNWAY (<i>number</i>) LEFT (<i>or</i> RIGHT). LOCALIZER (<i>or</i> MLS) FREQUENCY IS (<i>frequency</i>);</p> <p>d) TURN LEFT (<i>or</i> RIGHT) (<i>number</i>) DEGREES (<i>or</i> HEADING) (<i>three digits</i>) IMMEDIATELY TO AVOID TRAFFIC [DEVIATING FROM ADJACENT APPROACH], CLIMB TWO (<i>altitude</i>);</p> <p>e) CLIMB TO (<i>altitude</i>) IMMEDIATELY TO AVOID TRAFFIC [DEVIATING FROM ADJACENT APPROACH] (<i>further instructions</i>).</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	

2.2.4 Surveillance radar approach			
...Commission of service	a) THIS WILL BE A SURVEILLANCE RADAR APPROACH RUNWAY (<i>number</i>) TERMINATING AT (<i>distance</i>) FROM TOUCHDOWN, OBSTACLE CLEARANCE ALTITUDE (<i>or</i> HEIGHT) (<i>number</i>) FEET (<i>or</i> METRES) CHECK YOUR MINIMA [IN CASE OF GO AROUND (<i>instructions</i>)];	ÿ ÿ	
	b) APPROACH INSTRUCTIONS WILL BE TERMINATED AT (<i>distance</i>) FROM TOUCHDOWN;	ÿ ÿ	
...Elevation	c) COMMENCE DESCENT NOW [TO MAINTAIN A (<i>number</i>) DEGREE GLIDE PATH];	ÿ ÿ	
	d) (<i>distance</i>) FROM TOUCHDOWN ALTITUDE (<i>or</i> HEIGHT) SHOULD BE (<i>numbers and units</i>);	ÿ ÿ	
...Position	e) (<i>distance</i>) FROM TOUCHDOWN;	ÿ ÿ	
...Checks f)	CHECK GEAR DOWN [AND LOCKED];	ÿ ÿ	
	g) CHECK OVER THRESHOLD;	ÿ ÿ	
...Completion of approach	h) REPORT VISUAL;	ÿ ÿ	
	i) REPORT RUNWAY [LIGHTS] IN SIGHT; ÿ ÿ		
	j) APPROACH COMPLETED [CONTACT (<i>unit</i>)].	ÿ ÿ	
2.3 Secondary surveillance radar (SSR) and ADS-B phraseologies			
2.3.1 To request the capability of the SSR equipment			
	a) ADVISE TRANSPONDER CAPABILITY;	ÿ ÿ	
	b)* TRANSPONDER (<i>as shown in the flight level</i>);	*	
	c)* NEGATIVE TRANSPONDER.	*	
	*** Denotes pilot transmission.		
2.3.2 To request the capability of the ADS-B equipment			
	a) ADVISE ADS-B CAPABILITY;	ÿ ÿ	
	b)* ADS-B TRANSMITTER (<i>data link</i>);	*	

	<p>c)* ADS-B RECEIVER (<i>data link</i>);</p> <p>d)* NEGATIVE ADS-B.</p> <p>^{***} <i>Denotes pilot transmission.</i></p>	<p>*</p> <p>*</p>	
2.3.3 To instruct setting of transponder	<p>a) FOR DEPARTURE SQUAWK (<i>code</i>);</p> <p>b) SQUAWK (<i>code</i>).</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p>	
2.3.4 To request the pilot to reselect the assigned mode and code	<p>a) RESET SQUAWK [(<i>mode</i>)] (<i>code</i>);</p> <p>b)* RESETTING [(<i>mode</i>)] (<i>code</i>).</p>	<p>ÿ ÿ</p> <p>*</p>	
2.3.5 To request reselection of aircraft identification	<p>REENTER [ADS-B or MODE S] AIRCRAFT IDENTIFICATION.</p>	<p>ÿ ÿ</p>	
2.3.6 To request the pilot to confirm the code selected on the aircraft's transponder	<p>a) CONFIRM SQUAWK (<i>code</i>);</p> <p>b)* SQUAWKING (<i>code</i>).</p> <p>^{***} <i>Denotes pilot transmission.</i></p>	<p>ÿ ÿ</p> <p>*</p>	
2.3.7 To request the operation of the IDENT feature	<p>a) SQUAWK [(<i>code</i>)] [AND] IDENT;</p> <p>b) SQUAWK LOW;</p> <p>c) SQUAWK NORMAL;</p> <p>d) TRANSMIT ADS-B IDENT.</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>ÿ ÿ</p>	
2.3.8 To request temporary suspension of transponder operation	<p>SQUAWK STANDBY.</p>	<p>ÿ ÿ</p>	

<p>2.3.9 To request emergency code</p>	<p>SQUAWK MAYDAY [CODE SEVEN-SEVEN-ZERO-ZERO].</p>	<p>ÿ ÿ</p>	
<p>2.3.10 To request termination of transponder and/or ADS-B transmitter operation</p> <p><i>Note: Independent operations of Mode S transponder and ADS-B may not be possible in all aircraft (eg where ADS-B is solely provided by 1090 MHz extended squitter emitted from the transponder). In such cases, aircraft may not be able to comply with ATC instructions related to ADS-B operation.</i></p>	<p>a) STOP SQUAWK. [TRANSMIT ADS-B ON-SHELTER].</p> <p>b) STOP ADS-B TRANSMISSION [SQUAWK (code) ONLY].</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p>	
<p>2.3.11 To request transmission of pressure-altitude</p>	<p>a) SQUAWK CHARLIE;</p> <p>b) TRANSMIT ADS-B ALTITUDE.</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p>	
<p>2.3.12 To request pressure setting check and confirmation of level</p>	<p>CHECK ALTIMETER SETTING AND CONFIRM (level).</p>	<p>ÿ ÿ</p>	
<p>2.3.13 To request termination of pressure altitude transmission because of faulty operation</p>	<p>a) STOP SQUAWK CHARLIE WRONG INDICATION;</p> <p>b) STOP ADS-B ALTITUDE TRANSMISSION [(WRONG INDICATION, or reason)].</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p>	
<p>2.3.14 To request levels check</p>	<p>CONFIRM (level).</p>	<p>ÿ ÿ</p>	

<p>2.3.15 Controller queries a discrepancy between the displayed 'Selected Level' and the cleared level</p> <p><i>Note: The controller will not state on radiotelephony the value of the 'Selected Level' observed on the situation display.</i></p>	<p>a) CHECK SELECTED LEVEL. CLEARED LEVEL IS (level);</p> <p>b) CHECK SELECTED LEVEL. CONFIRM CLIMBING (or DESCENDING) TO (or MAINTAINING) (level);</p> <p>c)* CLIMBING (or DESCENDING) TO (or MAINTAINING) (level) (appropriate information on selected level).</p> <p>^{***} Denotes pilot transmission.</p>	<p>ÿ ÿ</p> <p>ÿ ÿ</p> <p>*</p>	
<p>3. Automatic dependent surveillance – contract (ADS-C) phraseologies</p>			
<p>3.1 General ADS-C phraseologies</p>			
<p>3.1.1 ADS-C degradation</p>	<p>ADS-C (or ADS-CONTRACT) OUT OF SERVICE (appropriate information as necessary).</p>	<p>ÿ ÿ</p>	
<p>4. Alerting phraseologies</p>			
<p>4.1 Alerting phraseologies</p>			
<p>4.1.1 Low altitude warning</p>	<p>(aircraft call sign) LOW ALTITUDE WARNING, CHECK YOUR ALTITUDE</p>	<p>ÿ ÿ</p>	
<p>4.1.2 Terrain alert</p>	<p>(aircraft call sign) TERRAIN ALERT, (suction site pilot action, if possible).</p>	<p>ÿ ÿ</p>	

5. Air Traffic Flow Management

Note: ATFM procedures not applied in the ICAO NAT Region.

5.1 ATFM phraseologies

...Calculated take-off time (CTOT) delivery resulting from a slot allocation message (SAM)	a) CASTLE (<i>hour</i>);	ÿ ÿ	
...Change to CTOT resulting from a slot revision message (SRM).	b) REVISED SLOT (<i>hour</i>);	ÿ ÿ	
...CTOT cancellation resulting from a slot cancellation message (SLC)	c) SLOT CANCELED, REPORT READY;	ÿ ÿ	
...Flight suspension until further notice (resulting from flight suspension message (FLS))	d) FLIGHT SUSPENDED UNTIL FURTHER NOTICE, DUE (<i>reason</i>);	ÿ ÿ	
...Flight de-suspension resulting from a de-suspension message (DES)	e) SUSPENSION CANCELED, REPORT READY;	ÿ ÿ	
...Denial of start-up when requested too late to comply with the given CTOT	f) UNABLE TO APPROVE START-UP CLEARANCE DUE SLOT EXPIRED, REQUEST A NEW CASTLE;	ÿ ÿ	
...Denial of start-up when requested too early to comply with the given CTOT	g) UNABLE TO APPROVE START-UP CLEARANCE DUE SLOT (<i>hour</i>), REQUEST START-UP AT (<i>hour</i>).	ÿ ÿ	
	h) UNABLE TO APPROVE (<i>desired route, level, etc.</i>) [FOR (<i>aircraft call sign</i>)] [DUE (<i>reason</i>)] (<i>alternative clearance proposed</i>).		
5.1.1 Approval request	<p>a) APPROVAL REQUEST (<i>aircraft call sign</i>) ESTIMATED DEPARTURE FROM (<i>significant point</i>) AT (<i>hour</i>);</p> <p>b) (<i>aircraft call sign</i>) REQUEST APPROVED [(<i>restriction if any</i>)];</p> <p>c) (<i>aircraft call sign</i>) UNABLE (<i>alternative instructions</i>).</p>		

<p>5.1.2 Inbound release</p>	<p>[INBOUND RELEASE] (<i>aircraft call sign</i>) SQUAWKING (<i>SSR code</i>) FROM (<i>departure point</i>) RELEASED AT (<i>significant point, or time, or level</i>) CLEARED TO AND ESTIMATING (<i>clearance limit</i>) (<i>time</i>) AT (<i>level</i>) [EXPECTED APPROACH TIME (<i>time</i>), or NO DELAY EXPECTED] CONTACT AT (<i>hour</i>).</p>		
<p>5.1.3 Handover</p>	<p>HANDOVER (<i>aircraft call sign</i>) [SQUAWKING (<i>SSR code</i>)] POSITION (<i>aircraft position</i>) (<i>level</i>).</p>		
<p>5.1.4 Expedition of clearance</p>	<p>a) EXPEDITE CLEARANCE (<i>aircraft call sign</i>) EXPECTED DEPARTURE FROM (<i>place</i>) AT (<i>hour</i>);</p> <p>b) EXPEDITE CLEARANCE (<i>aircraft call sign</i>) [ESTIMATED] OVER (<i>place</i>) AT (<i>time</i>) REQUESTS (<i>level or route, etc.</i>).</p>		
<p>5.1.5 RVSM Operations</p> <p>... to verbally supplement estimate messages of aircraft non-approved for RVSM or to verbally supplement an automated estimate message exchange that does not automatically transfer information from Item 18 of the flight plan followed by supplementary information, as appropriate</p> <p>... to communicate the cause of a contingency relating to an aircraft that is unable to conduct RVSM operations due to severe turbulence or other severe meteorological conditions phenomena or equipment failure, as applicable</p>	<p>a) NEGATIVE RVSM [(<i>supplementary information, eg State aircraft</i>)];</p> <p>b) UNABLE RVSM DUE TURBULENCE (<i>or EQUIPMENT, as applicable</i>).</p>		

6. Coordination between ATS units

6.1 Coordination between ATS units

6.1.1 Estimates and revisions

Wed

...sending unit

...receiving unit reply (if flight
plan details are not available)

...receiving unit reply (if flight
plan details are available)

...sending unit reply

a) ESTIMATE *[direction of flight]* (*aircraft call sign*)
[SQUAWKING (*SSR code*)] (*type*)
ESTIMATED (*significant point*) (*time*) (*level*)
(*or* DESCENDING/CLIMBING FROM (*level*)
TO (*level*)) [SPEED (*filed TAS*)] (*route*)
[REMARKS];

b) ESTIMATE (*significant point*) ON (*aircraft call
sign*);

c) NO DETAILS;

(*aircraft type*) (*destination*);

d) [SQUAWKING (*SSR code*)] [ESTIMATED]
(*significant point*) (*time*) AT (*level*);

*Note: In the event that flight plan details
are not available the receiving station shall reply
to b) NO DETAILS and sending unit
shall pass full estimate as in a).*

e) ESTIMATE UNMANNED FREE BAL-
LOON(S) (*identification and classification*)
ESTIMATED OVER (*place*) AT (*time*) RE-
PORTED FLIGHT LEVEL(S) (*figure or figures*)
[*or* FLIGHT LEVEL UNKNOWN]
MOVING (*direction*) ESTIMATED
GROUND SPEED (*figure*) (*other pertinent
information, if any*);

f) AUDIT (*aircraft call sign*) (*details as necessary*).

6.1.2 Transfer of control

a) REQUEST RELEASE OF (*aircraft call sign*);

b) (*aircraft call sign*) RELEASED [AT (*hour*)]
[*conditions/restrictions*];

c) IS (*aircraft call sign*) RELEASED [FOR
CLIMB (*or* DESCENT)];

d) (*aircraft call sign*) NOT RELEASED [UNTIL (*time
or significant point*)];

	e) UNABLE (<i>aircraft call sign</i>) [TRAFFIC IS (<i>details</i>)].
6.1.3 Change of clearance	<p>a) MAY WE CHANGE CLEARANCE OF (<i>aircraft call sign</i>) TO (<i>details of alteration proposed</i>);</p> <p>b) AGREED TO (<i>alteration of clearance</i>) OF (<i>aircraft call sign</i>);</p> <p>c) UNABLE TO APPROVE CHANGE TO CLEARANCE OF (<i>aircraft call sign</i>);</p> <p>d) UNABLE TO APPROVE (<i>desired route, level, etc.</i>) [FOR (<i>aircraft call sign</i>)] [DUE (<i>reason</i>)] (<i>alternative clearance proposed</i>).</p>
6.1.4 Approval request	<p>a) APPROVAL REQUEST (<i>aircraft call sign</i>) ESTIMATED DEPARTURE FROM (<i>significant point</i>) AT (<i>hour</i>);</p> <p>b) (<i>aircraft call sign</i>) REQUEST APPROVED [(<i>restriction if any</i>)];</p> <p>c) (<i>aircraft call sign</i>) UNABLE (<i>alternative instructions</i>).</p>
6.1.5 Inbound release	[INBOUND RELEASE] (<i>aircraft call sign</i>) SQUAWKING (<i>SSR code</i>) FROM (<i>departure point</i>) RELEASED AT (<i>significant point, or time, or level</i>) CLEARED TO AND ESTIMATING (<i>clearance limit</i>) (<i>time</i>) AT (<i>level</i>) [EXPECTED APPROACH TIME (<i>time</i>), or NO DELAY EXPECTED] CONTACT AT (<i>hour</i>).
6.1.6 Handover	HANDOVER (<i>aircraft call sign</i>) [SQUAWKING (<i>SSR code</i>)] POSITION (<i>aircraft position</i>) (<i>level</i>).
6.1.7 Expedition of clearance	<p>a) EXPEDITE CLEARANCE (<i>aircraft call sign</i>) EXPECTED DEPARTURE FROM (<i>place</i>) AT (<i>hour</i>);</p> <p>b) EXPEDITE CLEARANCE (<i>aircraft call sign</i>) [ESTIMATED] OVER (<i>place</i>) AT (<i>time</i>) REQUESTS (<i>level or route, etc.</i>).</p>

<p>6.1.8 RVSM Operations</p> <p>... to verbally supplement estimate messages of aircraft non-approved for RVSM or to verbally supplement an automated estimate message exchange that does not automatically transfer information from</p> <p>Item 18 of the flight plan followed by supplementary information, as appropriate</p> <p>... to communicate the cause of a contingency relating to an aircraft that is unable to conduct RVSM operations due to severe turbulence or other severe meteorological phenomena or equipment failure, as applicable</p>	<p>a) NEGATIVE RVSM [(supplementary information, eg State aircraft)];</p> <p>b) UNABLE RVSM DUE TURBULENCE (or EQUIPMENT, as applicable).</p>		
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Appendix B

CPDLC Data Link Message Set

Contents

1. Uplink messages.....	B2
2. Downlink Messages.....	B3
3. Preliminary examples.....	B3

Note: As stated in [Note. 1](#) and [Note 2](#) to chapter 3. pt. 3.1.2 The message elements below cover only a limited part of the total ICAO CPDLC message set, in that only the message elements that relate to the request for/handover

see 'departure clearance' via data link for the time being is selected included. In the nature of the matter, the CPDLC message elements only appear written in the English language.

1. Uplink messages

1.1 CPDLC uplink messages for issuing departure clearances are presented in this section 1.

Table A-1: Responses/Acknowledgements (uplink)

	Message Intent/Use	Message Element	URG ALRT RESP		
0	Indicates that ATC cannot comply with the request	UNABLE	N	M	N
1	Indicates that ATC has received the message and will respond	STANDBY	N	L	N

Table A-5: Route Modifications (uplink)

	Message Intent/Use	Message Element	URG ALRT RESP		
73	Notification to the aircraft of the instructions to be followed from departure until the specified clearance limit	(departure clearance)	N	M	W/U

Table A-11: System Management Messages (uplink)

	Message Intent/Use	Message Element	URG ALRT RESP		
159 A	system generated message notifying that the ground system has detected an error	ERROR	U	M	N
161	Notification to the avionics that the datalink connection with the current data authority is being terminated	END SERVICE	L	N	N
227 C	Confirmation to the aircraft system that the ground system has received the message to which the logical acknowledgment refers and found it acceptable for display to the responsible person	LOGICAL ACKNOWLEDGMENT	N	M	N

Table A-12: Additional Messages (uplink)

	Message Intent/Use	Message Element	URG ALRT RESP		
208		(free text)	L	L	N

Note: Free text ('Free text') message elements are inherently not associated with any message intent. The ability to send a free text message using any of

the property combinations (attributes) that appear in the message set have been anticipated/approved in the technical requirements for ATN (Annex 10, Volume III, Part I, Chapter 3).

2. Downlink Messages

2.1 CPDLC downlink messages for requesting departure clearances are presented in this section 2.

Table A-13: Responses (downlink)

	Message Intent/Use	Message Element	URG	ALRT	RESP	
0	The instruction is understood and will be complied with	WILCO	N		M	N
1	The instruction cannot be complied with	UNABLE	N		M	N
2	Wait for a reply	STANDBY	N		M	N

Table A-18: Route Modification Requests (downlink)

	Message Intent/Use	Message Element	URG	ALRT	RESP	
25	Request for clearance	REQUEST (<i>clearance type</i>) CLEARANCE	N		L	Y

Table A-19: Reports (downlink)

	Message Intent/Use	Message Element	URG	ALRT	RESP	
79	The code of the latest ATIS received is as specified	ATIS (<i>atis code</i>)	N		L	N

Table A-22: System Management Messages (downlink)

	Message Intent/Use	Message Element	URG	ALRT	RESP	
62	A system generated message that the avionics has detected an error	ERROR (<i>error information</i>)	U		L	N
100	Confirmation to the ground system that the aircraft system has received the message to which the logical acknowledgment refers and found it acceptable for display to the responsible person	LOGICAL ACKNOWLEDGMENT	N		M	N

Table A-23: Additional Messages (downlink)

	Message Intent/Use	Message Element	URG	ALRT	RESP	
98		(<i>free text</i>)	L		L	N

Note: Free text ('Free text') message elements are inherently not associated with any message intent. The ability to send a free text message using any of

the property combinations (attributes) that appear in the message set have been predicted/ approved in the technical requirements for ATN (Annex 10, Volume III, Part I, Chapter 3).

3. Preliminary examples

Note: The examples below and some of the message elements have not yet been approved ICAO standard, but derived from Eurocontrol DOC 'Operational requirements for Air Traffic Ma-

agement A/G Data Communications Services, edition 1.0, 15 January 1998, which are, however, to be regarded as indicative operational requirements for the EUR region. Therefore, subsequent examples are not

detailed, but included only to outline a logical connection with the listed ICAO message elements.

controlling ATC unit, e.g. an oceanic clearance)

3.1 Establishment and completion of CPDLC takes place in the following steps:

1) THE AIRCRAFT'S 'LOGON' (aircraft data link logon sends e.g. the aircraft's data link address (an alphanumeric code of six hexa-decimal characters) and accompanying FPL data; field 7 IDENT, field 13 ADEP EOBT and field 16 ADES, there is correlated with the FPL data left stored in the ATC system database. Hereafter is the aircraft's 'avionic' and the controlling ATC system in question are uniquely linked together until downlink takes place (step 4).

2) CPDLC LINK ESTABLISHMENT (Two types of data link can be connected:

i) **The current ATC link.** This CPDLC link is established between the aircraft and the ATC unit that currently is currently responsible for the control of the aircraft,

ii) **Downstream ATC link.** This CPDLC link can be at the request of the aircraft established via the DSC service, which passes on a clearance issued by a subsequent ATC unit that does not currently is it

3) PERFORMANCE OF CPDLC MESSAGE EXCHANGE (Depending on the established service the corresponding ICAO standard message elements can now be exchanged.),

4) CPDLC LINK TERMINATION/DISCONNECTION (Aircraft shall request termination and disconnection of the current ATC data link connection. The controlling ATC unit may refuse disengagement if it has or anticipates having to issue additional clearances, air traffic control instructions or information. When the controlling ATC unit accepts downlink, must both concerned pilot and executive air traffic controller receive indication that additional CPDLC communication can no longer take place.

3.2 A CPDLC downlink request for 'departure clearance' (message type designation 'RCD'), is composed of the following message elements:

Note 1: In the table below means:

- M Mandatory,
- /A If applicable
- O Optional
- N2 Not ICAO standard in an RCD message

Element type	Message no.	Message Element	URG ALRT RESP		
M	25	REQUEST [clearance type] CLEARANCE	N	L	Y
I A	79	ATIS [code letter]	N	L	N
M	N2	GATE [gate ident]	N	L	L
M	N2	AIRCRAFT TYPEWAKE [aircraft type] [wake turbulence category]	N	L	L
	98	[free text]	N	N	N

Note 2: The RCD notification does not contain the information listed in section 3.1 step 1), but is already submitted in connection with the aircraft's data link 'logon' process.

Example of an RCD message:

```
RCD 080
SAS123-EGKK-GATE A34-KJFK
ATIS H
-TYPE/B747/H
-RMK/REQ 23L
```