

COVER SHEET TO AMENDMENT 81

**INTERNATIONAL STANDARDS,
RECOMMENDED PRACTICES AND
PROCEDURES FOR AIR NAVIGATION SERVICES**

AERONAUTICAL TELECOMMUNICATIONS

**ANNEX 10
TO THE CONVENTION ON INTERNATIONAL CIVIL AVIATION**

**VOLUME II
COMMUNICATION PROCEDURES
including those with PANS status**

SIXTH EDITION OF VOLUME II — JULY 2001

INTERNATIONAL CIVIL AVIATION ORGANIZATION

Checklist of Amendments to Annex 10, Volume II

	<i>Effective date</i>	<i>Date of applicability</i>
Sixth Edition (incorporates Amendments 1 to 76)	16 July 2001	1 November 2001
Amendment 77 (did not affect Volume II)	—	—
Amendment 78 (adopted by the Council on 5 March 2003)	14 July 2003	27 November 2003
Amendment 79 (did not affect Volume II)	—	—
Amendment 80 (adopted by the Council on 25 February 2005)	11 July 2005	24 November 2005
Amendment 81 (did not affect Volume II)	—	—



Transmittal note

Amendment 81

to the

International Standards,
Recommended Practices and
Procedures for Air Navigation Services

AERONAUTICAL TELECOMMUNICATIONS

(Annex 10, Volume II, to the Convention on International Civil Aviation)

1. Insert the following replacement pages in Annex 10, Volume II (Sixth Edition) to incorporate Amendment 81 which becomes applicable on 23 November 2006:

Pages (x) to (xii)

— Foreword

2. Record the entry of this amendment on page (ii).
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Foreword

the prefix **Recommendation**; *Notes* have been printed in light face italics, the status being indicated by the prefix *Note*.

The following editorial practice has been followed in the writing of specifications: for Standards the operative verb "shall" is used, and for Recommended Practices the operative verb "should" is used.

The units of measurement used in this document are in accordance with the International System of Units (SI) as specified in Annex 5 to the Convention on International Civil Aviation. Where Annex 5 permits the use of non-SI alternative units, these are shown in parentheses following the basic units.

Annex 10 — Aeronautical Telecommunications

Where two sets of units are quoted, it must not be assumed that the pairs of values are equal and interchangeable. It may, however, be inferred that an equivalent level of safety is achieved when either set of units is used exclusively.

Any reference to a portion of this document, which is identified by a number and/or title, includes all subdivisions of that portion.

With respect to the typesetting of the material in Volume II of Annex 10, *Procedures for Air Navigation Services* have been printed in light face italics, the status being indicated by the prefix **PANS**.

Table A. Amendments to Annex 10, Volume II

<i>Amendment</i>	<i>Source(s)</i>	<i>Subject(s)</i>	<i>Adopted Effective Applicable</i>
44	Seventh Session of the COM Division	With the creation of Volume II and the inclusion of appropriate provisions which up to that time were included in Doc 7181 — <i>PANS — Radiotelephony Procedures</i> , a general rearrangement of the provisions relating to communications procedures was necessary and was effected in the new Volume II.	31 May 1965 1 October 1965 10 March 1966
45	Sixth Meeting of the Panel of Teletypewriter Specialists; Fourth AN Conference	A number of detailed changes in the AFTN procedures; amendment to Chapters 5 and 6, to indicate more precisely the procedures to be used when communications take place directly between a pilot and an air traffic controller; and a rewording of 3.7 — Use of Abbreviations and Codes, to correct an unintentional change in meaning introduced in Amendment 42.	12 December 1966 12 April 1967 24 August 1967
46	Fifth Meeting of the ATC Automation Panel	Provisions for the transmission of ATS messages intended for use in an ATC computer.	7 June 1967 5 October 1967 8 February 1968
47	COM/OPS Divisional Meeting	Introduction of new simplified Aeronautical Mobile Distress Procedures which are better suited to the special requirements of international civil aviation.	11 December 1967 11 April 1968 22 August 1968
48	Seventh Meeting of the Panel of Teletypewriter Specialists	Introduction of changes to message classification and teletypewriter procedures in the light of experience gained in automated operation of the AFTN.	23 January 1969 23 May 1969 18 September 1969
49	First Meeting of the Automated Data Interchange Systems Panel; Sixth AN Conference	Provision concerning the use of the 7-unit code for data interchange at medium signalling rates; introduction of provisions relating to the categories of aeronautical mobile service messages. On the basis of the study of consolidation and presentation of the Regional Supplementary Procedures, it introduces provisions relating to: appropriate diversion routing lists at AFTN communication centres; early transmission of AFTN messages bearing Priority Indicators GG or higher; guarding of 121.5 MHz during long over-water flights; action by aeronautical stations receiving an air-report or a message containing meteorological information transmitted by an aircraft; and the action taken by a station receiving a distress message or an emergency message; and when it is aware that the distress condition is ended.	1 June 1970 1 October 1970 4 February 1971

<i>Amendment</i>	<i>Source(s)</i>	<i>Subject(s)</i>	<i>Adopted Effective Applicable</i>
50	Fifth NAT RAN Meeting; Second Meeting of the Automated Data Interchange Systems Panel; Air Navigation Study on RAN Meeting recommendations of worldwide applicability; Sixth AN Conference	Introduction of the term “Hertz (Hz)” in place of the term “cycles per second (c/s)” as the unit of frequency for electric and radio-technical matters; changes in the provisions relating to short-term and long-term retention of AFTN traffic records and the period of thirty days for the retention of communications logs; expansion of the Introduction to Volume II with material relating to the 7-unit coded character set; introduction of the definitions for “ATS direct speech circuit”, “Meteorological operational channel” and “Meteorological operational telecommunication network”; reorganization of the provisions at Chapters 3 and 4 by grouping under Chapter 3 the general provisions for the four parts of the international aeronautical telecommunication service and under Chapter 4 the provisions relating to the aeronautical fixed service, including the aeronautical fixed telecommunication network; provisions concerning the recording of air-reports in AIREP form.	24 March 1972 24 July 1972 7 December 1972
51	Sixth EUM RAN Meeting	Introduction of provisions concerning the use of a predetermined distribution system for AFTN messages.	11 December 1972 11 April 1973 16 August 1973
52	—	No change.	—
53	—	No change.	—
54 ¹	Fourth Meeting of the Automated Data Interchange Systems Panel	Insertion of cross-references in Volume I, Part I, Chapter 4, 4.12 and in the Introduction to Volume II, concerning data exchange rates.	17 June 1974 — —
55	—	No change.	—
56	—	No change.	—
57	ASIA/PAC RAN Meeting	Amendments concerning the maintenance of guard on the VHF emergency frequency 121.5 MHz by the crews of aircraft crossing designated areas, and the elimination of ocean station vessels from those aeronautical stations with which radio contact should be attempted in case of air-ground communications failure.	16 June 1976 16 October 1976 6 October 1977
58	Sixth Meeting of the Automated Data Interchange Systems Panel	Amendment concerning the material permitted in AFS messages and the procedures for requesting repetition of mutilated messages in the AFTN; also the introduction of a message format for the 7-unit coded character set.	27 June 1977 27 October 1977 23 February 1978
59	COM Divisional Meeting (1976)	Amendment concerning address part of the AFTN messages.	14 December 1977 14 April 1978 10 August 1978
60	Eighth Meeting of the EUR Air Navigation Planning Group; Third Meeting of the EUR/NAM/NAT Regional Planning Group	Designation of VHF 25 kHz channels; short-term retention of AFTN messages.	4 December 1978 4 April 1979 29 November 1979
61	Seventh Meeting of the Automated Data Interchange Systems Panel; COM Divisional Meeting (1978)	Introduction of a new series of marginal serial numbers in use by the International Telecommunication Union (ITU) and clarification of the term “Radio Regulations”; changes to the definition of the Aeronautical Fixed Telecommunication Network (AFTN); introduction of the definition of “operational control communications”; new provisions regarding stripped address procedure; changes in the provisions regarding maximum message length; changes in the provisions regarding flight regularity messages.	10 December 1979 10 April 1980 27 November 1980

<i>Amendment</i>	<i>Source(s)</i>	<i>Subject(s)</i>	<i>Adopted Effective Applicable</i>
62	Eighth Meeting of the Automated Data Interchange Systems Panel	Changes and additions to the provisions related to service messages, multiple lines of address and stripped address procedure; changes and additions to the provisions related to channel-check transmissions and the use of controlled circuit protocols; changes and additions to the provisions related to the detection of mutilated messages; addition of provisions related to the transfer of AFTN messages over code and byte independent circuits and networks.	14 December 1981 14 April 1982 25 November 1982
63	Ninth Meeting of the Automated Data Interchange Systems Panel	Changes to the provisions related to message priority and priority indicators.	13 December 1982 13 April 1983 24 November 1983
64	Air Navigation Commission	Introduction of new and revised radiotelephony procedures for use in the Aeronautical Mobile Service.	30 March 1983 29 July 1983 7 June 1984
65	Recommendations of the ANC relating to the method of referencing date/time; COM/MET Divisional Meeting (1982); Third Meeting of the ATS Data Acquisition, Processing and Transfer Panel; 10th Meeting of the Automated Data Interchange Systems Panel	Coordinated universal time (UTC); changes to AFTN message text length, and priorities for movement and control messages; test procedures on AFTN channels; new material on AFTN address stripping in Attachment C.	6 December 1984 6 April 1985 21 November 1985
66	—	No change.	—
67	Eighth Meeting, 104th Session of Council; COM/MET Divisional Meeting (1982); Air Navigation Commission	Changes and editorial rearrangement of AFTN procedures resulting from the new ICAO three-letter designator; changes related to predetermined distribution system for the AFTN; introduction of new procedures concerning transmission of whole hundreds in radiotelephony; introduction of new procedures for use on VHF air-to-air communications channel; editorial rearrangement to present English language radiotelephony phraseology in all language versions of Annex 10, Volume II.	16 March 1987 27 July 1987 22 October 1987
68	Air Navigation Commission	New procedures for the formulation of aircraft radiotelephony call signs; changes to safeguard aircraft against acts of unlawful interference; new procedures related to the maintenance of guard on 121.5 MHz.	29 March 1990 30 July 1990 15 November 1990
69	COM/MET Divisional Meeting (1982); COM/MET/OPS Divisional Meeting (1990)	Changes to AFTN message procedures and addition of material related to the world area forecast system (WAFS) telecommunications requirements; addition of material related to VHF air-ground data link communications and changes to material concerning VHF off-set carrier systems.	22 March 1993 26 July 1993 11 November 1993
70 (5th Edition)	Air Navigation Commission	New phraseology for the transmission of numbers in radiotelephony. A number of changes in the AFTN procedures related to the acceptance and transmission of messages, categories of messages and removal of obsolete material related to radiotelephony.	20 March 1995 24 July 1995 9 November 1995
71	Air Navigation Commission; first meeting of the Aeronautical Telecommunication Network Panel (ATNP)	Changes to aeronautical fixed telecommunications network procedures.	12 March 1996 15 July 1996 7 November 1996
72	Air Navigation Commission; fourth meeting of the Aeronautical Mobile Communications Panel (AMCP)	Modification of R/T procedures concerning the introduction of 8.33 kHz channel spacing; deletion of definition for VDL.	12 March 1997 21 July 1997 6 November 1997

<i>Amendment</i>	<i>Source(s)</i>	<i>Subject(s)</i>	<i>Adopted Effective Applicable</i>
73	Air Navigation Commission; second meeting of the Aeronautical Telecommunication Network Panel (ATNP)	Changes to the composition of meteorological messages sent via the AFTN; introduction of Human Factors related material.	19 March 1998 20 July 1998 5 November 1998
74	Air Navigation Commission	Introduction of interpilot air-to-air channel.	18 March 1999 19 July 1999 4 November 1999
75	—	No change.	—
76 (6th Edition)	Third meeting of the Aeronautical Telecommunication Network Panel (ATNP); the Secretariat on the basis of proposals by the Multi-Agency Air Traffic Services Procedures Coordination Group (MAPCOG); fifth meeting of the Automatic Dependent Surveillance Panel (ADSP); seventh meeting of the Aeronautical Mobile Communication Panel (AMCP); Secretariat	Aeronautical fixed service (AFS) procedural provisions for voice and data communications elements; consequential changes resulting from the introduction of a single interpilot air-to-air frequency; deletion of references to obsolete radiotelegraphy techniques; radiotelephony speech and standard phraseology; technology in relation to a number of data link applications; update of references to the ITU Radio Regulations.	12 March 2001 16 July 2001 1 November 2001
77	—	No change.	—
78	Air Navigation Commission	Language proficiency requirements.	5 March 2003 14 July 2003 27 November 2003
79	—	No change.	—
80	European Air Navigation Planning Group (EANPG); Aeronautical Communications Panel (ACP)	Changes to the procedures for indication of the transmitting channels in VHF radiotelephony communications.	25 February 2005 11 July 2005 24 November 2005
81	—	No change.	—

¹ Did not affect any Standards or Recommended Practices.