

# GOVERNMENT GAZETTE

## OF THE

# REPUBLIC OF NAMIBIA

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N\$8.40

WINDHOEK - 29 March 2003

No.2944

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## Government Notices

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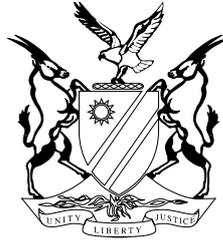
### MINISTRY OF WORKS, TRANSPORT AND COMMUNICATION

No. 59

2003

#### NAMIBIAN CIVIL AVIATION TECHNICAL STANDARDS NAM-CATS-OPS 133 "HELICOPTER EXTERNAL - LOAD OPERATIONS"

The Director: Civil Aviation has under regulation 11.03.5 of the Namibian Civil Aviation Regulations, 2001 and in consultation with the Civil Aviation Regulations Committee issued the technical standards in the Schedule. These technical standards shall come into operation on 31 March 2003.



**REPUBLIC OF NAMIBIA**

**CIVIL AVIATION**

**DOCUMENT NAM-CATS-OPS 133  
(HELICOPTER EXTERNAL-LOAD OPERATIONS)**

**LIST OF TECHNICAL STANDARDS****133.03.5 MARKINGS AND PLACARDS**

1. Markings and placards

**NAMIBIAN CIVIL AVIATION TECHNICAL STANDARDS RELATING TO  
HELICOPTER EXTERNAL-LOAD OPERATIONS****1. GENERAL**

Section 22A of the Aviation Act, 1962 (as amended by section 5 of the Aviation Amendment Act, 1998) empowers the Director: Civil Aviation to issue technical standards for civil aviation on the matters which are prescribed by regulation.

The Director: Civil Aviation has pursuant to the empowerment mentioned above, on 31 March 2003 issued technical standards relating to helicopter external-load operations to be known as Document NAM-CATS-OPS 133.

**2. PURPOSE**

Document NAM-CATS-OPS 133 contains the standards, rules, requirements, methods, specifications, characteristics and procedures which are applicable in respect of helicopter external-load operations.

Each reference to a technical standard in this document, is a reference to the corresponding regulation in the Namibian Civil Aviation Regulations, 2001, for example, technical standard 133.03.5 refers to regulation 5 of Subpart 03 of Part 133 of the Regulations.

The abbreviation "CAR" is used throughout this document when referring to any regulation.

The abbreviation "TS" refers to any technical standard.

**3. SCHEDULES AND NOTES**

Guidelines and recommendations in support of any particular technical standard, are contained in schedules to, and/or notes inserted throughout the technical standards.

**133.03.5 MARKINGS AND PLACARDS**

1. Markings and placards

The owner or operator of a helicopter must ensure that the following markings and placards are displayed in the helicopter:

- (1) A placard displayed in the flight deck or cabin, stating the class of helicopter-load combination for which the helicopter has been approved and the occupancy limitation prescribed in CAR 133.03.3(2)(a); and
  - (2) a placard, marking or instruction, displayed next to the external-load attaching means, stating the maximum external-load prescribed as an operating limitation in CAR 133.03.3(2)(c).
-

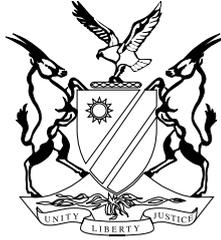
**MINISTRY OF WORKS, TRANSPORT AND COMMUNICATION**

No. 60

2003

**NAMIBIAN CIVIL AVIATION TECHNICAL STANDARDS  
NAM-CATS-OPS 105 "OPERATION OF PARACHUTES"**

The Director: Civil Aviation has under regulation 11.03.5 of the Namibian Civil Aviation Regulations, 2001 and in consultation with the Civil Aviation Regulations Committee issued the technical standards in the Schedule. These technical standards shall come into operation on 31 March 2003.



**REPUBLIC OF NAMIBIA**

**CIVIL AVIATION**

**DOCUMENT NAM-CATS-OPS 105  
(OPERATION OF PARACHUTES)**

## NAMIBIAN CIVIL AVIATION TECHNICAL STANDARDS RELATING TO THE OPERATION OF PARACHUTES

### 1. GENERAL

Section 22A of the Aviation Act, 1962 (as amended by section 5 of the Aviation Amendment Act, 1998) empowers the Director: Civil Aviation to issue technical standards for civil aviation on the matters which are prescribed by regulation.

The Director: Civil Aviation has pursuant to the empowerment mentioned above, on 31 March 2003 issued technical standards relating to the operation of parachutes to be known as Document NAM-CATS-OPS 105.

### 2. PURPOSE

Document NAM-CATS-OPS 105 contains the standards, rules, requirements, methods, specifications, characteristics and procedures which are applicable in respect of the operation of parachutes.

Each reference to a technical standard in this document, is a reference to the corresponding regulation in the Namibian Civil Aviation Regulations, 2001, for example, technical standard 105.01.10 refers to regulation 10 of Subpart 01 of Part 105 of the Regulations.

The abbreviation "CAR" is used throughout this document when referring to any regulation.

The abbreviation "TS" refers to any technical standard.

### 3. SCHEDULES AND NOTES

Guidelines and recommendations in support of any particular technical standard, are contained in schedules to, and/or notes inserted throughout the technical standards.

#### LIST OF TECHNICAL STANDARDS

#### 105.01.14 VISIBILITY AND CLEARANCE FROM CLOUD

1. Visibility and clearance from cloud

#### 105.01.19 AIRCRAFT OPERATING AND AIRWORTHINESS REQUIREMENTS

1. Aircraft that may be operated with one cabin door removed

#### 105.01.14. VISIBILITY AND CLEARANCE FROM CLOUD

##### 1. Visibility and clearance from cloud

The visibility and clearance requirements are the following:

Airspace designation	Visibility	Distance from clouds
Class A	not permitted	Not permitted
Class C, D and E	8 km	Horizontal ..... 500 m Vertical ..... 500 ft
Class G Above 3 000 ft above MSL or 1 000 ft above terrain whichever is higher	8 km	Horizontal ..... 500 m Vertical ..... 500 ft
At or below 3 000 ft above MSL or 1 000 ft above terrain whichever is higher	5 km	Clear of clouds and in sight of the surface

## 105.01.19 AIRCRAFT OPERATING AND AIRWORTHINESS REQUIREMENTS

### 1. Aircraft that may be operated with one cabin door removed

1. Aeronca 05B
2. Aeronca 15AC STC SA4-1593
3. Beech D17S STC SA603SO
4. Beech AT-11 STC SA4WE
5. Beech 18 Series STC SA69CE
6. Beech C-45 and  
TC-45 series STC SA 69CE
7. Beech 65-90
8. Beech 65-A90
9. Beech 65-B90
10. Beech 65-C90
11. Beech 65-E90
12. Beech Model 100 (all)
13. Beech Model A100 (all)
14. Beech Model B100 (all)
15. Beech Model 200
16. Beech Model 200C (all)
17. Beech Model 200T (all)
18. Beech Model 200CT
19. Beech Model B200
20. Beech Model B200C
21. Beech Model B200T
22. Beech Model B200CT
23. Beech Model 99
24. Beech Model 99A
25. Beech Model A99A
26. Beech Model B99
27. Beech Model C99
28. Beech Model A65
29. Beech Model A65-8200
30. Beech Model A65-80
31. Beech Model A65-70
32. Beech Model A65-B80
33. Beech Model A36
34. Beech Model A36TC
35. Beech Model B36TC
36. Beech Model 58/58A
37. Centaur 101
38. Cessna 120 Series
39. Cessna 140 Series
40. Cessna 150 Series
41. Cessna 170 Series
42. Cessna 172 Series
43. Cessna 175 Series STC SA49CE
44. Cessna 177 Series STC SA466SO
45. Cessna 180 Series STC SA168SW
46. Cessna 182 Series STC SA40CE
47. Cessna 185 Series STC SA33SO
48. Cessna 190 Series STC SA220WE
49. Cessna 195 Series STC SA1966SW
50. Cessna 206 Series STC SA1255WE  
(with Cessna accessory kit AK 206-1 installed)
51. Cessna 207 Series
52. Cessna 208 Series
53. Cessna 210 Series STC SA199WE
54. Cessna (Ector) 305A STC SA353SW

55. Cessna 337A STC SA190SO
  56. Cessna 402C STC SA1525NM
  57. Champion (Aeronca) 7 Series STC SA33CE
  58. Curtis Wright  
(Travel Air) STC SA209WE S-6000B
  59. De Haviland DHC-6-300 STC SA132RM
  60. Douglas DC-3 (maximum airspeed cabin passenger door removed 170 knots)
  61. Fairchild 24 Series (R/H door)
  62. Helio 250
  63. Helio 295
  64. Helio 391
  65. Helio 395
  66. Howard DGA-15 Series
  67. Larson (Luscombe) 8 Series (R/H door - maximum airspeed 100 MPH)
  68. Lockheed Model 12A
  69. Lockheed 18-56 STC SA892SO
  70. Lockheed 402-2 (R/H rear door)
  71. Macchi AL 60 (R/H rear door)
  72. Maule M4, M-4-210 STC SA258CE
  73. Noorduyn UC-64 Series (rear door)
  74. Piper PA-12 Series
  75. Piper PA-18 Series
  76. Piper PA-20 Series
  77. Piper PA-22 Series
  78. Piper PA-28 140-160-180-235
  79. Piper PA-32 Series
  80. Piper PA-32R Series
  81. Piper PA-34 Series
  82. Stinson SR-7B (R/H door)
  83. Stinson V-77
  84. Taylorcraft BC 12-D
  85. Temco (Luscombe) 11A (R/H door)
  86. Universal (Stinson) 108 Series
-

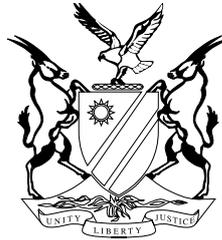
**MINISTRY OF WORKS, TRANSPORT AND COMMUNICATION**

No. 61

2003

**NAMIBIAN CIVIL AVIATION TECHNICAL STANDARDS  
NAM-CATS-OPS 106 "OPERATION OF HANG GLIDERS"**

The Director: Civil Aviation has under regulation 11.03.5 of the Namibian Civil Aviation Regulations, 2001 and in consultation with the Civil Aviation Regulations Committee issued the technical standards in the Schedule. These technical standards shall come into operation on 31 March 2003.



**REPUBLIC OF NAMIBIA**

**CIVIL AVIATION**

**DOCUMENT NAM-CATS-OPS 106  
(OPERATION OF HANG GLIDERS)**

## **NAMIBIAN CIVIL AVIATION TECHNICAL STANDARDS RELATING TO THE OPERATION OF HANG GLIDERS**

### **1. GENERAL**

Section 22A of the Aviation Act, 1962 (as amended by section 5 of the Aviation Amendment Act, 1998) empowers the Director: Civil Aviation to issue technical standards for civil aviation on the matters which are prescribed by regulation.

The Director: Civil Aviation has pursuant to the empowerment mentioned above, on 31 March 2003 issued technical standards relating to the operation of hang gliders to be known as Document NAM-CATS-OPS 106.

### **2. PURPOSE**

Document NAM-CATS-OPS 106 contains the standards, rules, requirements, methods, specifications, characteristics and procedures which are applicable in respect of the operation of hang gliders.

Each reference to a technical standard in this document, is a reference to the corresponding regulation in the Namibian Civil Aviation Regulations, 2001, for example, technical standard 106.02.5 refers to regulation 5 of Subpart 02 of Part 106 of the Regulations.

The abbreviation "CAR" is used throughout this document when referring to any regulation.

The abbreviation "TS" refers to any technical standard.

### **3. SCHEDULES AND NOTES**

Guidelines and recommendations in support of any particular technical standard, are contained in schedules to, and/or notes inserted throughout the technical standards.

## **LIST OF TECHNICAL STANDARDS**

### **106.04.1 EQUIPMENT**

#### **1. Equipment**

The hang glider must be equipped with -

- (1) a safety harness or safety belt, for each person on board;
  - (2) in the case of flights above 500 feet AGL, an altimeter; and
  - (3) in the case of an operation over water beyond gliding distance from a safe alighting area, one lifejacket or individual flotation device for each person on board.
-

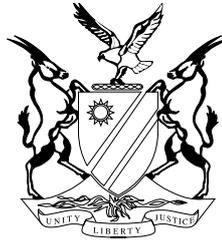
**MINISTRY OF WORKS, TRANSPORT AND COMMUNICATION**

No. 62

2003

**NAMIBIAN CIVIL AVIATION TECHNICAL STANDARDS  
NAM-CATS-OPS 104 "OPERATION OF GLIDERS"**

The Director: Civil Aviation has under regulation 11.03.5 of the Namibian Civil Aviation Regulations, 2001 and in consultation with the Civil Aviation Regulations Committee issued the technical standards in the Schedule. These technical standards shall come into operation on 31 March 2003.



**REPUBLIC OF NAMIBIA**

**CIVIL AVIATION**

**DOCUMENT NAM-CATS-OPS 104  
(OPERATION OF GLIDERS)**

## NAMIBIAN CIVIL AVIATION TECHNICAL STANDARDS RELATING TO THE OPERATION OF GLIDERS

### 1. GENERAL

Section 22A of the Aviation Act, 1962 (as amended by section 5 of the Aviation Amendment Act, 1998) empowers the Director: Civil Aviation to issue technical standards for civil aviation on the matters which are prescribed by regulation.

The Director: Civil Aviation has pursuant to the empowerment mentioned above, on 31 March 2003 issued technical standards relating to the operation of gliders to be known as Document NAM-CATS-OPS 104.

### 2. PURPOSE

Document NAM-CATS-OPS 104 contains the standards, rules, requirements, methods, specifications, characteristics and procedures which are applicable in respect of the operation of gliders.

Each reference to a technical standard in this document, is a reference to the corresponding regulation in the Namibian Civil Aviation Regulations, 2001, for example, technical standard 104.02.5 refers to regulation 5 of Subpart 02 of Part 104 of the Regulations.

The abbreviation "CAR" is used throughout this document when referring to any regulation.

The abbreviation "TS" refers to any technical standard.

### 3. SCHEDULES AND NOTES

Guidelines and recommendations in support of any particular technical standard, are contained in schedules to, and/or notes inserted throughout the technical standards.

## LIST OF TECHNICAL STANDARDS

### 104.02.5 EQUIPMENT

#### 1. Equipment

The glider must be equipped with -

- (1) a seat with an approved safety belt for each person on board;
  - (2) an airspeed indicator;
  - (3) an altimeter;
  - (4) a magnetic compass;
  - (5) radio communication equipment capable of maintaining two-way communication with other aircraft as well as an air traffic service unit;
  - (6) in the case of an operation over water beyond gliding distance from a safe alighting area, one lifejacket or individual flotation device for each person on board;
  - (7) in the case of flights above FL 120, oxygen; and
  - (8) in the case of operations in IMC, a turn and bank indicator.
-

**MINISTRY OF WORKS, TRANSPORT AND COMMUNICATION**

No. 63

2003

**NAMIBIAN CIVIL AVIATION TECHNICAL STANDARDS  
NAM-CATS-ARO "AVIATION RECREATION ORGANISATIONS"**

The Director: Civil Aviation has under regulation 11.03.5 of the Namibian Civil Aviation Regulations, 2001 and in consultation with the Civil Aviation Regulations Committee issued the technical standards in the Schedule. These technical standards shall come into operation on 31 March 2003.



**REPUBLIC OF NAMIBIA**

**CIVIL AVIATION**

**DOCUMENT NAM-CATS-ARO  
(AVIATION RECREATION ORGANISATIONS)**

**NAMIBIAN CIVIL AVIATION TECHNICAL STANDARDS RELATING  
TO AVIATION RECREATION ORGANISATIONS**

**1. GENERAL**

Section 22A of the Aviation Act, 1962 (as amended by section 5 of the Aviation Amendment Act, 1998) empowers the Director: Civil Aviation to issue technical standards for civil aviation on the matters which are prescribed by regulation.

The Director: Civil Aviation has pursuant to the empowerment mentioned above on 31 March 2003 issued technical standards relating to aviation recreation organisations to be known as Document NAM-CATS-ARO.

**2. PURPOSE**

Document NAM-CATS-ARO contains the standards, rules, requirements, methods, specifications, characteristics and procedures which are applicable in respect of aviation training organisations.

Each reference to a technical standard in this document is a reference to the corresponding regulation in the Namibian Civil Aviation Regulations, 2001, for example, technical standard 149.02.2 refers to regulation 2 of Subpart 2 of Part 149 of the Regulations.

The abbreviation "CAR" is used throughout this document when referring to any regulation. The abbreviation "TS" refers to any technical standard.

**3. SCHEDULES AND NOTES**

Guidelines and recommendations in support of any particular technical standard, are contained in schedules to, and/or notes inserted throughout the technical standards.

**LIST OF TECHNICAL STANDARDS**

- 149.01.2 DESIGNATION OF BODY OR INSTITUTION**  
1. Conditions, rules, requirements, procedures or standards for a designation
- 149.02.1 MANUAL OF PROCEDURE**  
1. Information to be contained in manual of procedure
- 149.02.2 QUALITY ASSURANCE SYSTEM**  
1. Minimum standards for a quality assurance system
- 149.02.5 APPLICATION FOR APPROVAL OR AMENDMENT THEREOF**  
1. Form of application
- 149.02.6 ISSUING OF APPROVAL**  
1. Form of approval
- 149.02.11 RENEWAL OF APPROVAL**  
1. Form of application

ANNEXURE A :           APPLICATION FOR THE ISSUING OF AN AVIATION  
RECREATION ORGANISATION APPROVAL  
APPLICATION FOR THE AMENDMENT OF AN  
AVIATION RECREATION ORGANISATION APPROVAL  
APPLICATION FOR THE RENEWAL OF AN AVIATION  
RECREATION ORGANISATION APPROVAL

ANNEXURE B :           AVIATION RECREATION ORGANISATION APPROVAL

**149.01.2 DESIGNATION OF BODY OR INSTITUTION****1. Conditions, rules, requirements, procedures or standards for a designation**

The Director shall designate a body or institution in terms of CAR 149.01.2 upon the satisfactory completion by an authorized inspector of an audit to determine the level of compliance of such organization with all the relevant requirements of Part 149 of the Namibian Civil Aviation Regulations, 2001.

**149.02.1 MANUAL OF PROCEDURE****1. Information to be contained in manual of procedure****1.1 General information**

The information referred to in CAR 149.02.1(b), which must be contained in the manual of procedure of the applicant, must include the following:

- (1) A statement signed by the accountable manager and compliance officer, on behalf of the applicants organisation, confirming that the manual of procedure and any included manuals -
  - (a) define the organisation and demonstrate its means and methods for ensuring ongoing compliance with Part 149; and
  - (b) will be complied with at all times.
- (2) The titles and names of the personnel required by CAR 149.02.3.
- (3) The duties and responsibilities of the personnel specified in CAR 149.02.3 including matters for which they have responsibility to deal directly with the Director on behalf of the organisation.
- (4) An organisation chart showing lines of responsibility of the personnel specified in CAR 149.02.3 and extending to each location listed under subparagraph (5).
- (5) Details of those locations where members or personnel of the organisation are to exercise functions or powers delegated by the Director.
- (6) A summary of the resources at and the scope of activity to be conducted at each location listed under subparagraph (5).
- (7) Details of the organisation's procedure for recording which of its members and personnel hold authorisations granted by the organisation or delegations of the Director's functions or powers, or both, including the extent and scope of those authorisations and delegations.
- (8) Details of the procedures required by -
  - (a) CAR 149.02.3 regarding the competence of personnel;
  - (b) CAR 149.02.2 regarding quality assurance of the organisation.
- (9) Procedures to control, amend and distribute the manual of procedure.

**1.2 General description of the facilities at each location to be utilised for aviation recreation**

A description of the facilities is required.

1.3 Notification procedure to the Director regarding changes in the organisation's facilities and procedures

A statement indicating who is responsible for notifying the Director regarding changes, and what changes are subject to notification.

**149.02.2 QUALITY ASSURANCE SYSTEM**

**1. Minimum standards for a quality assurance system**

- (1) The quality assurance system referred to in CAR 149.02.2(2), must include -
  - (a) a clear definition of the level of quality the organisation intends to achieve;
  - (b) a procedure that sets out the level and frequency of the internal reviews;
  - (c) a procedure to record the findings and communicate them to management;
  - (d) a list of responsible persons;
  - (e) procedures by which other quality indicators such as facility malfunction reports, incidents, occurrences, complaints and defects are brought into the quality assurance system;
  - (f) procedures for management analysis and overview;
  - (g) procedures for rectifying any deficiencies which may be found; and
  - (h) procedures for documenting the complete review process from the inspection to the satisfactory management review so that this is available to the Director during a safety inspection and audit.
- (2) Measures must be taken to ensure that the system is understood, implemented and complied with at all levels.
- (3) The quality assurance system must be documented in the manual of procedure referred to in CAR 149.02.1.

**149.02.5 APPLICATION FOR APPROVAL OR AMENDMENT THEREOF**

**1. Form of application**

The form referred to in CAR 149.02.5(a), in which application must be made for the issuing of an aviation recreation organisation approval, or an amendment thereof, is contained in Annexure A.

**149.02.6 ISSUING OF APPROVAL**

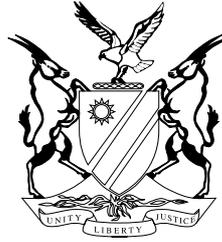
**1. Form of approval**

The form referred to in CAR 149.02.6(2), on which an aviation recreation organisation approval is issued, is contained in Annexure B.

**149.02.11 RENEWAL OF APPROVAL**

**1. Form of application**

The form referred to in CAR 149.02.11(1)(a), in which an application for the renewal of an aviation recreation organisation approval must be made, is contained in Annexure A.

*Annexure A***REPUBLIC OF NAMIBIA****CIVIL AVIATION**

**APPLICATION FOR THE ISSUING OF AN AVIATION RECREATION  
ORGANISATION APPROVAL  
APPLICATION FOR THE AMENDMENT OF AN AVIATION RECREATION  
ORGANISATION APPROVAL  
APPLICATION FOR THE RENEWAL OF AN AVIATION RECREATION  
ORGANISATION APPROVAL**

*Notes:*

- (i) *An application for the issuing of an aviation recreation organisation approval to undertake aviation recreation, or an amendment thereof, must comply with the provisions of CAR 149.02.5.*
- (ii) *An application for the renewal of an aviation recreation organisation approval to undertake aviation recreation, must comply with the provisions of CAR 149.02.11.*
- (iii) *Section 1 of this form must be completed in all cases.*
- (iv) *All other sections must be completed if applicable to the specific application.*
- (v) *The original application must be submitted to the Director: Civil Aviation.*
- (vi) *Where the required information cannot be furnished in the space provided, the information must be submitted as a separate memorandum and attached hereto.*
- (vii) *Please delete if not applicable.*

Mark the appropriate block:

- Application for an aviation recreation organisation approval
- Application for the amendment of an aviation recreation organisation approval
- Application for the renewal of an aviation recreation organisation approval

**1. PARTICULARS REGARDING THE APPLICANT/HOLDER**

1.1 Full name : .....

1.2 Trade name : .....

1.3 Full business / residential address: ..... ..... ..... .....	1.4 Postal address: ..... ..... ..... Postal code : .....
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1.5 Telephone number: .....	1.6 Telefax number: .....
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1.7 Cellular phone number: .....	1.8 E-mail address : .....
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1.9 SITA code (if any): .....	1.10 Telex number: .....
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1.11 Legal status of applicant/holder (individual/close corporation/company/trust/other - specify):  
 .....

1.12 Registration number in the case of a close corporation/company/trust:.....  
 .....

1.13 Full particulars in respect of the individual/each responsible director/shareholder/member/office bearer:

Name	Position	Identity Number	Nationality	Country of permanent residence
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....

1.14 The applicant/holder declares hereby that the particulars provided in this application are true in every respect.

.....  
Signature
Date

**2. APPLICATION FOR THE ISSUING OF AN AVIATION RECREATION ORGANISATION APPROVAL**

2.1 Type of aviation recreation applied for:  
 .....

2.2 Supporting documents:  
  
 Mark the appropriate block  
  
 The manual of procedure  
 Other (specify) .....

**3. APPLICATION FOR THE AMENDMENT OF AN AVIATION RECREATION ORGANISATION APPROVAL**

3.1 Approval number : .....	3.2 Expiry date : .....
-----------------------------	-------------------------

3.3 Particulars of amendments applied for : .....
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<p>3.4 Supporting documents :</p> <p>Mark the appropriate block</p> <p><input type="checkbox"/> Amended manual of procedure</p> <p><input type="checkbox"/> Other (specify).....</p>
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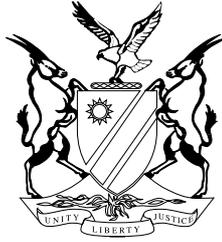
**4. APPLICATION FOR THE RENEWAL OF AN AVIATION RECREATION ORGANISATION APPROVAL**

4.1 Approval number : .....	4.2 Expiry date : .....
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4.3 Type of aviation recreation applied for : .....
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<p>4.4 Supporting documents :</p> <p>Mark the appropriate block</p> <p><input type="checkbox"/> The manual of procedure</p> <p><input type="checkbox"/> Other (specify) .....</p>
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*Annexure B*



**REPUBLIC OF NAMIBIA**

**CIVIL AVIATION**

**AVIATION RECREATION ORGANISATION APPROVAL**

1. Approval number: .....	2. Expiry date: .....
---------------------------	-----------------------

3. Type of aviation recreation: ..... .....
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4. Name of holder: .....
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4. Physical address of holder: ..... ..... ..... .....	5. Postal address of holder: ..... ..... ..... Postal code:.....
--	--

7. Scope of approval: ..... ..... ..... .....
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8. I hereby certify that the holder of this approval has been duly approved in accordance with Part 149 of the Namibian Civil Aviation Regulations, 2001.
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.....  
Director: Civil Aviation

.....  
Date of issue

\_\_\_\_\_

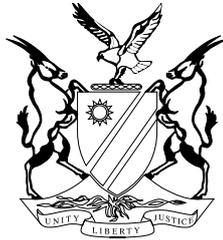
**MINISTRY OF WORKS, TRANSPORT AND COMMUNICATION**

No. 64

2003

**NAMIBIAN CIVIL AVIATION TECHNICAL STANDARDS  
NAM-CATS-AIRS "AERONAUTICAL INFORMATION SERVICES"**

The Director: Civil Aviation has under regulation 11.03.5 of the Namibian Civil Aviation Regulations, 2001 and in consultation with the Civil Aviation Regulations Committee issued the technical standards in the Schedule. These technical standards shall come into operation on 31 March 2003.



**REPUBLIC OF NAMIBIA**

**CIVIL AVIATION**

**DOCUMENT NAM-CATS-AIRS  
(AERONAUTICAL INFORMATION AND RELATED  
SERVICES)**

## **NAMIBIAN CIVIL AVIATION TECHNICAL STANDARDS RELATING TO AERONAUTICAL INFORMATION AND RELATED SERVICES**

### **1. GENERAL**

Section 22A of the Aviation Act, 1962 (as amended by section 5 of the Aviation Amendment Act, 1998) empowers the Director: Civil Aviation to issue technical standards for civil aviation on the matters which are prescribed by regulation.

The Director: Civil Aviation has pursuant to the empowerment mentioned above, on 31 March 2003 issued technical standards relating to aeronautical information and related services to be known as Document NAM-CATS-AIRS.

### **2. PURPOSE**

Document NAM-CATS-AIRS contains the standards, rules, requirements, methods, specifications, characteristics and procedures which are applicable in respect of aeronautical information and related services.

Each reference to a technical standard in this document, is a reference to the corresponding regulation in the Namibian Civil Aviation Regulations, 2001, for example, technical standard 175.00.3 refers to regulation 3 of Subpart 00 of Part 175 of the Regulations.

The abbreviation "CAR" is used throughout this document when referring to any regulation.

The abbreviation "TS" refers to any technical standard.

### **3. SCHEDULES AND NOTES**

Guidelines and recommendations in support of any particular technical standard, are contained in schedules to, and/or notes inserted throughout the technical standards.

### **4. INCORPORATION OF INTERNATIONAL AVIATION STANDARDS**

Section 22A(3) of the Aviation Act, 1962 (as amended by section 5 of the Aviation Amendment Act, 1998) empowers the Director: Civil Aviation to incorporate by reference into a technical standard, any international aviation standard.

The current edition of the international aviation standard known as "Annex 3 (Meteorological Service for International Air Navigation) to the Convention on International Civil Aviation", is incorporated into the technical standards contained in this document.

The current edition of the international aviation standard known as "Annex 15 (Aeronautical Information Services to the Convention on International Civil Aviation)", is incorporated into the technical standards contained in this document.

## **LIST OF TECHNICAL STANDARDS**

### **PART 174 : METEOROLOGICAL INFORMATION SERVICES**

#### **174.00.2 DESIGNATION OF METEOROLOGICAL INFORMATION ORGANISATION**

1. The conditions, requirements, rules, procedures and standards for the designation of meteorological information organisation

**PART 175 : AERONAUTICAL INFORMATION SERVICES****175.00.3 PUBLICATION OF AERONAUTICAL INFORMATION**

1. The conditions, requirements, rules, procedures and standards for the publication of aeronautical information

**174.00.2 DESIGNATION OF METEOROLOGICAL INFORMATION ORGANISATION**

1. **The conditions, requirements, rules, procedures and standards for the designation of meteorological information organisation**

The meteorological information organisation designated by the Director in terms of CAR 174.00.2, must provide the meteorological information services in accordance with the standards, recommended practices and procedures contained in the current edition of Annex 3 to the Convention.

**175.00.3 PUBLICATION OF AERONAUTICAL INFORMATION**

1. **The conditions, requirements, rules, procedures and standards for the publication of aeronautical information**

The Director must publish aeronautical information in accordance with the standards, recommended practices and procedures contained in the current edition of Annex 15 to the Convention.

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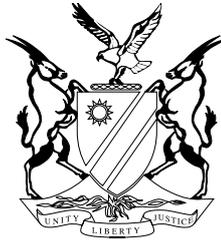
**MINISTRY OF WORKS, TRANSPORT AND COMMUNICATION**

No. 65

2003

**NAMIBIAN CIVIL AVIATION TECHNICAL STANDARDS  
NAM-CATS-DG "CONVEYANCE OF DANGEROUS GOODS"**

The Director: Civil Aviation has under regulation 11.03.5 of the Namibian Civil Aviation Regulations, 2001 and in consultation with the Civil Aviation Regulations Committee issued the technical standards in the Schedule. These technical standards shall come into operation on 31 March 2003.



**REPUBLIC OF NAMIBIA**

**CIVIL AVIATION**

**DOCUMENT NAM-CATS-DG  
(CONVEYANCE OF DANGEROUS GOODS)**

## NAMIBIAN CIVIL AVIATION TECHNICAL STANDARDS RELATING TO THE CONVEYANCE OF DANGEROUS GOODS

### 1. GENERAL

Section 22A of the Aviation Act, 1962 (as amended by section 5 of the Aviation Amendment Act, 1998) empowers the Director: Civil Aviation to issue technical standards for civil aviation on the matters which are prescribed by regulation.

The Director: Civil Aviation has pursuant to the empowerment mentioned above, on 31 March 2003 issued technical standards relating to the conveyance of dangerous goods to be known as Document NAM-CATS-DG.

### 2. PURPOSE

Document NAM-CATS-DG contains the standards, rules, requirements, methods, specifications, characteristics and procedures which are applicable in respect of the conveyance of dangerous goods.

Each reference to a technical standard in this document, is a reference to the corresponding regulation in the Namibian Civil Aviation Regulations, 2001, for example, technical standard 92.00.2 refers to regulation 2 of Subpart 00 of Part 92 of the Regulations.

The abbreviation "CAR" is used throughout this document when referring to any regulation.

The abbreviation "TS" refers to any technical standard.

### 3. SCHEDULES AND NOTES

Guidelines and recommendations in support of any particular technical standard, are contained in schedules to, and/or notes inserted throughout the technical standards.

### 4. INCORPORATION OF INTERNATIONAL AVIATION STANDARDS

Section 22A(3) of the Aviation Act, 1962 (as amended by section 5 of the Aviation Amendment Act, 1998) empowers the Director: Civil Aviation to incorporate into a technical standard any international standard or recommended practice or procedure adopted by the International Civil Aviation Organisation (ICAO).

The Technical Instructions for the Safe Transport of Dangerous Goods by Air (Doc 9284-AN/905), approved and published by a decision of the Council of ICAO, as amended from time to time, are incorporated into the technical standards contained in this document.

## LIST OF TECHNICAL STANDARDS

#### 92.00.1 APPLICABILITY

1. Definitions
2. Replacement for articles and substances required to be on board
3. Articles and substances on board for specialised purposes
4. Articles and substances intended for personal use

#### 92.00.2 CONVEYANCE OF DANGEROUS GOODS FORBIDDEN

1. Conveyance of dangerous goods forbidden under any circumstances
2. Conveyance of dangerous goods forbidden under normal circumstances
3. Conveyance of any other dangerous goods

#### 92.00.3 EXEMPTION

1. Overall level of safety

- 92.00.4 CLASSIFICATION, DIVISION AND LISTING OF DANGEROUS GOODS**
1. Classes, divisions and listing
- 92.00.5 DESIGNATED BODY OR INSTITUTION**
1. Conditions, rules, requirements, procedures and standards
- 92.00.6 DESIGNATION OF DANGEROUS GOODS INSPECTORS**
1. Conditions, requirements, rules, procedures and standards for a designation
- 92.00.7 POWERS OF DANGEROUS GOODS INSPECTORS**
1. Compliance
  2. Separation of dangerous goods
  3. Documentation
  4. Qualifications of persons handling dangerous goods
- 92.00.8 TRAINING**
1. Dangerous goods training courses
  2. Subject matter of the dangerous goods training courses
- 92.00.10 PACKING AND PACKAGING**
1. Packing requirements and standards
  2. Material and construction specifications and initial testing
  3. Packaging for retention of liquid
- 92.00.11 RESPONSIBILITY OF SHIPPER**
1. Responsibilities of shipper
- 92.00.12 LABELLING AND MARKING**
1. Labelling of packages
  2. Marking of packages
  3. Marking of specification packaging
- 92.00.13 DANGEROUS GOODS TRANSPORT DOCUMENT**
1. Circumstances when dangerous goods transport document need to be completed
  2. Other documentation
  3. Contents of dangerous goods transport document
  4. Declaration
- 92.00.14 ACCEPTANCE PROCEDURES**
1. Circumstances when dangerous goods transport document need not be completed
  2. Acceptance procedures
  3. Acceptance checklist
- 92.00.15 INFORMATION TO BE PROVIDED**
1. Information to pilot-in-command
  2. Information to crew members and employees
- 92.00.16 INSPECTION FOR DAMAGE OR LEAKAGE BY OPERATOR**
1. Radiation level
- 92.00.17 STORAGE AND LOADING**
1. Storage and loading
- 92.00.18 LOADING RESTRICTIONS IN CABIN OR ON FLIGHT DECK**
1. conveyance of dangerous goods in aircraft cabin or flight deck
  2. Class B aircraft cargo compartment

**92.00.19 SEPARATION AND SEGREGATION**

1. Stowage of poison or infectious substances
2. Stowage of radioactive materials

**92.00.21 LOADING IN CARGO AIRCRAFT**

1. Loading in cargo aircraft

**92.00.22 DANGEROUS GOODS ACCIDENT AND INCIDENT REPORTING**

1. Dangerous goods accident and incident reporting

**92.00.24 DANGEROUS GOODS ACCIDENT AND INCIDENT INFORMATION**

1. Dangerous goods accident and incident information

**92.00.27 DANGEROUS GOODS CARRIED BY PASSENGERS OR CREW MEMBERS**

1. Dangerous goods carried by passenger or crew members

**92.00.1 APPLICABILITY****1. Definitions**

Any word or expression to which a meaning has been assigned in the Aviation Act, 1962, and the Namibian Civil Aviation Regulations, 2001, bears, when used in this publication, the same meaning unless the context indicates otherwise, and -

“the Instructions” means the Technical Instructions for the Safe Transport of Dangerous Goods by Air, Doc 9284-AN/905, approved and published by a decision of the Council of ICAO, as amended from time to time; and

“Class B aircraft cargo compartment” means a cargo compartment of an aircraft in which both cargo and passengers are carried on the main deck, and which is located between the flight deck and the passenger cabin or behind the passenger cabin at the rear of the aircraft, and in which -

- (a) there is sufficient access in flight to enable a flight crew member to effectively reach any part of the compartment with the contents of a hand fire extinguisher;
- (b) no hazardous quantity of smoke, flames or extinguishing agent will enter any compartment occupied by the flight crew or passengers; and
- (c) there is a separate approved smoke detector or fire detector system to give warning at the pilot or flight engineer station.

**2. Replacement for articles and substances required to be on board**

The replacements for the articles and substances required to be on board the aircraft in accordance with the appropriate airworthiness requirements and the provisions of the operations manual, must be conveyed in accordance with Part 1; 2.3.2 of the Instructions.

**3. Articles and substances on board for specialised purposes**

The regulations on the conveyance of dangerous goods do not apply in respect of the articles and substances carried on board an aircraft for the specialised purposes specified in Part 1; 2.3.1(b) and (c) of the Instructions.

**4. Articles and substances intended for personal use**

The articles and substances intended for the personal use of passengers and crew members must be carried in accordance with the requirements and standards prescribed in TS 92.00.27.

**92.00.2 CONVEYANCE OF DANGEROUS GOODS FORBIDDEN****1. Conveyance of dangerous goods forbidden under any circumstances**

The dangerous goods specified in Part 1; 2.1 of the Instructions and the dangerous goods listed as “forbidden” in the Dangerous Goods List, Table 2-14 of the Instructions, are forbidden for conveyance by air under any circumstances.

**2. Conveyance of dangerous goods forbidden under normal circumstances**

The dangerous goods specified in Part 1; 2.2 of the Instructions are forbidden for conveyance by air under normal circumstances, unless exempted by the Director in terms of CAR 92.00.3(1).

**3. Conveyance of any other dangerous goods**

- (1) The dangerous goods specified in Part 1; 2.4, 2.5 and 2.6 and listed in Part 2; Chapters 1 to 12, must be packed and conveyed in accordance with the procedures and requirements prescribed by the Instructions.
- (2) Any dangerous goods defined in the Instructions which are to be conveyed by airmail, may only be conveyed in accordance with the provisions of the Posts and Telecommunications Act, 1992 (Act 19 of 1992).

**92.00.3 EXEMPTION****1. Overall level of safety**

The reference to Document NAM-CATS-DG in CAR 92.00.3(2) means the overall level of safety prescribed in the Instructions.

**92.00.4 CLASSIFICATION, DIVISION AND LISTING OF DANGEROUS GOODS****1. Classes, divisions and listing**

The classes, divisions and listing of dangerous goods are contained in Part 2, Chapters 1 to 12 of the Instructions.

**92.00.5 DESIGNATED BODY OR INSTITUTION****1. Conditions, rules, requirements, procedures and standards**

(Reserved.)

**92.00.6 DESIGNATION OF DANGEROUS GOODS INSPECTORS****1. Conditions, requirements, rules, procedures and standards for a designation**

The conditions and requirements for and the rules, procedures and standards connected with the designation of a dangerous goods inspector, are the following:

**1.1 Conditions**

- (1) The candidate may not be employed by any shipper, air service operator, packer or freight forwarder.
- (2) The candidate must be independent.

**1.2 Requirements**

- (1) The candidate must at least possess the following qualifications:

- (a) A Further Education and Training Certificate; and
  - (b) successful completion of the initial dangerous goods training and the refresher dangerous goods training, at the intervals referred to in CAR 92.00.8(4).
- (2) The candidate must at least have the following experience:
- (a) Two years experience as a flight crew member, a maintenance engineer or air cargo handler; or
  - (b) two years experience in road or rail dangerous goods handling.
- (3) The candidate must have sufficient ability in reading, speaking and understanding the English language to enable such candidate to duly exercise the powers of a designated dangerous goods inspector.

### 1.3 Rules

Once designated, the dangerous goods inspector must -

- (1) conduct ad hoc inspections;
- (2) report back to the Director on every inspection;
- (3) maintain competency; and
- (4) stay abreast of new developments regarding the conveyance of dangerous goods, both locally and internationally.

### 1.4 Procedures

- (1) Any person who desires to be designated as a dangerous goods inspector, must apply in writing to the Director.
- (2) An application for the designation as a dangerous goods inspector must be accompanied by proof that the applicant complies with the conditions, requirements and standards prescribed in this technical standard.
- (3) The Director may, after due consideration of the application, designate the applicant as a dangerous goods inspector.
- (4) The Director may designate the applicant as a dangerous goods inspector for the period determined by the Director, which period may not exceed one year, calculated from the date of designation.
- (5) The Director may withdraw a designation if -
  - (a) it becomes evident that the designated dangerous goods inspector does not comply with the provisions of this technical standard; or
  - (b) the withdrawal is necessary in the interests of aviation safety.
- (6) The designated dangerous goods inspector must, upon the withdrawal of the designation by the Director, forthwith surrender the document referred to in CAR 92.00.6(3) to the Director.

### 1.5 Standards

The candidate must comply with the conditions, requirements and rules prescribed in this technical standard.

**92.00.7 POWERS OF DANGEROUS GOODS INSPECTORS****1. Compliance**

The reference to Document NAM-CATS-DG in CAR 92.00.7(1), (2) and (3)(b) means the requirements and standards as prescribed in the Instructions.

**2. Separation of dangerous goods**

The separation of classes of dangerous goods are prescribed in CAR 92.00.19 and TS 92.00.19.

**3. Documentation**

The documentation relating to a consignment of dangerous goods are prescribed in CAR 92.00.13 and TS 92.00.13.

**4. Qualifications of persons handling dangerous goods**

Any person handling dangerous goods must comply with CAR 92.00.8 and TS 92.00.8.

**92.00.8 TRAINING****1. Dangerous goods training courses**

The initial dangerous goods training course and refresher dangerous goods training course must be conducted in accordance with the Dangerous Goods Training Programme prescribed by ICAO, Doc 9375-AN/913, Books 1, 2, 3 and 4, and are subject to review by the Director.

**2. Subject matter of the dangerous goods training courses**

The subject matter of the initial dangerous goods training course and refresher dangerous goods training course are the aspects referred to in Part 6, Chapter 2 of the Instructions.

**92.00.10 PACKING AND PACKAGING****1. Packing requirements and standards**

The requirements and standards for the packing of dangerous goods are contained in Part 3 of the Instructions.

**2. Material and construction specifications and initial testing**

The material and construction specifications of packaging and the requirements and standards for the testing of packaging are contained in Parts 3 and 7 of the Instructions and the initial testing of packaging is undertaken by an approved organisation.

**3. Packaging for retention of liquid**

Packaging for which retention of liquid is a basic function, must withstand the pressure prescribed in Part 3; 1.1.6.1 of the Instructions or must comply with Part 3; 1.1.6.2 of the Instructions.

**92.00.11 RESPONSIBILITY OF SHIPPER****1. Responsibilities of the shipper**

The responsibilities of the shipper regarding the identification, classification, marking and labelling of packages containing dangerous goods and completion of the dangerous goods transport document are contained in Part 4 of the Instructions.

**92.00.12 LABELLING AND MARKING****1. Labelling of packages**

The requirements and standards for the labelling of packages that contain dangerous goods are contained in Part 4, Chapter 3 of the Instructions.

**2. Marking of packages**

The requirements and standards for the marking of packages that contain dangerous goods are contained in Part 4, Chapter 2 of the Instructions.

**3. Marking of specification packaging**

Each outer or single packaging used for dangerous goods, for which specification packaging is required in Part 3 of the Instructions, must bear the markings appropriate to the contents as prescribed in Part 7, Chapter 2 of the Instructions.

**92.00.13 DANGEROUS GOODS TRANSPORT DOCUMENT****1. Circumstances when dangerous goods transport document need not be completed**

A dangerous goods transport document need not be completed for dangerous goods conveyed in airmail and dangerous goods conveyed in excepted quantities as prescribed in TS 92.00.2.2 and 92.00.2.3(2).

**2. Other documentation**

The other documents that are required for the conveyance of dangerous goods by air are contained in Part 4; 4.2, 4.3, 4.4 and 4.5 of the Instructions under the following headings:

- Air waybill
- Additional documentation for other than radioactive material
- Additional documentation for radioactive material
- Documentation for radioactive material excepted package.

**3. Contents of dangerous goods transport document**

The information that must be contained in a dangerous goods transport document is prescribed in Part 4; 4.1 of the Instructions.

**4. Declaration**

The information that has to be contained in the declaration referred to in CAR 92.00.13(2)(b) and (c), is the information prescribed in the Instructions.

**92.00.14 ACCEPTANCE PROCEDURES****1. Circumstances when dangerous goods transport document need not be completed**

The dangerous goods for which a dangerous goods transport document need not be completed, are those referred to in TS 92.00.13(1).

**2. Acceptance procedures**

The acceptance procedures that an operator has to follow when accepting dangerous goods for conveyance by air, are prescribed in Part 5, Chapter 1 of the Instructions.

### **3. Acceptance checklist**

The requirements for an acceptance checklist are prescribed in Part 5; 1.3 of the Instructions.

#### **92.00.15 INFORMATION TO BE PROVIDED**

##### **1. Information to pilot-in-command**

The minimum information that an operator must provide to a pilot-in-command is contained in Part 5, 4.1 of the Instructions.

##### **2. Information to crew members and employees**

The information that an operator must provide to his or her crew members and employees, must include the information referred to in Part 5; 4.2 of the Instructions.

#### **92.00.16 INSPECTION FOR DAMAGE OR LEAKAGE BY OPERATOR**

##### **1. Radiation level**

The radiation level resulting from the fixed contamination at any accessible surface and non-fixed contamination must be below the values prescribed in Part 5; 3.2.4 and Table 5-6 of the Instructions.

#### **92.00.17 STORAGE AND LOADING**

##### **1. Storage and loading**

The requirements for the storage and loading of dangerous goods are contained in Part 5, Chapter 2 of the Instructions.

#### **92.00.18 LOADING RESTRICTIONS IN CABIN OR ON FLIGHT DECK**

##### **1. Conveyance of dangerous goods in aircraft cabin or flight deck**

Dangerous goods may not be conveyed in an aircraft cabin occupied by passengers or on the flight deck or cockpit of an aircraft, except as permitted by Part 1; 2.3.1 and Part 9.1 of the Instructions and for radioactive material, excepted packages under Part 2; 7.9 of the Instructions.

##### **2. Class B aircraft cargo compartment**

Dangerous goods may be carried in a main deck cargo compartment of a passenger aircraft provided that the compartment meets all the certification requirements for a Class B aircraft cargo compartment.

#### **92.00.19 SEPARATION AND SEGREGATION**

##### **1. Stowage of poison or infectious substances**

The stowage of poison or an infectious substance must be done in accordance with Part 5; 2.8 of the Instructions.

##### **2. Stowage of radioactive materials**

The stowage of radioactive materials must be done in accordance with Part 5; 2.9 of the Instructions.

**92.00.21    LOADING IN CARGO AIRCRAFT****1.    Loading in cargo aircraft**

The packages or overpacks of dangerous goods described in Part 5; 2.4.1 of the Instructions do not have to comply with the requirements referred to in CAR 92.00.21.

**92.00.22    DANGEROUS GOODS ACCIDENT AND INCIDENT REPORTING****1.    Dangerous goods accident and incident reporting**

The operator of an aircraft carrying dangerous goods which is involved in a dangerous goods accident or dangerous goods incident must notify the relevant authority of the matters required in Part 5; 4.6 of the Instructions.

**92.00.24    DANGEROUS GOODS ACCIDENT AND INCIDENT INFORMATION****1.    Dangerous goods accident and incident information**

The operator must ensure that the emergency response information prescribed in Part 5; 4.8(a) and (b) of the Instructions, is available at all times as required in terms of CAR 92.00.24.

**92.00.27    DANGEROUS GOODS CARRIED BY PASSENGERS OR CREW MEMBERS****1.    Dangerous goods carried by passengers or crew members**

No passenger or crew member may carry dangerous goods except in accordance with the requirements and standards contained in Part 9, Chapter 1 of the Instructions.

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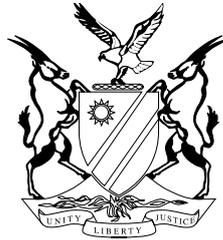
**MINISTRY OF WORKS, TRANSPORT AND COMMUNICATION**

No. 66

2003

**NAMIBIAN CIVIL AVIATION TECHNICAL STANDARDS  
NAM-CATS-OPS 103 "OPERATION OF MICROLIGHT AEROPLANES"**

The Director: Civil Aviation has under regulation 11.03.5 of the Namibian Civil Aviation Regulations, 2001 and in consultation with the Civil Aviation Regulations Committee issued the technical standards in the Schedule. These technical standards shall come into operation on 31 March 2003.



**REPUBLIC OF NAMIBIA**

**CIVIL AVIATION**

**DOCUMENT NAM-CATS-OPS 103  
(OPERATION OF MICROLIGHT AEROPLANES)**

## **NAMIBIAN CIVIL AVIATION TECHNICAL STANDARDS RELATING TO THE OPERATION OF MICROLIGHT AEROPLANES**

### **1. GENERAL**

Section 22A of the Aviation Act, 1962 (as amended by section 5 of the Aviation Amendment Act, 1998) empowers the Director: Civil Aviation to issue technical standards for civil aviation on the matters which are prescribed by regulation.

The Director: Civil Aviation has pursuant to the empowerment mentioned above, on 31 March 2003 issued technical standards relating to the operation of microlight aeroplanes to be known as Document NAM-CATS-OPS 103.

### **2. PURPOSE**

Document NAM-CATS-OPS 103 contains the standards, rules, requirements, methods, specifications, characteristics and procedures which are applicable in respect of the operation of microlight aeroplanes.

Each reference to a technical standard in this document, is a reference to the corresponding regulation in the Namibian Civil Aviation Regulations, 2001, for example, technical standard 103.02.5 refers to regulation 5 of Subpart 02 of Part 103 of the Regulations.

The abbreviation "CAR" is used throughout this document when referring to any regulation.

The abbreviation "TS" refers to any technical standard.

### **3. SCHEDULES AND NOTES**

Guidelines and recommendations in support of any particular technical standard, are contained in schedules to, and/or notes inserted throughout the technical standards.

## **LIST OF TECHNICAL STANDARDS**

### **103.02.5 EQUIPMENT**

#### **1. Equipment**

The microlight aeroplane must be equipped with:

- (1) a seat with an approved safety belt for each person on board;
  - (2) an airspeed indicator;
  - (3) an altimeter;
  - (4) a magnetic compass; and
  - (5) in the case of an operation over water beyond gliding distance from a safe alighting area, one lifejacket or individual flotation device for each person on board.
  - (6) two way radio communications.
-