



2007 9 10

《一般运行和飞行规则》(CCAR-91-R<sub>2</sub>)已经2007年8月30日中国民用航空总局局务会议通过,现予公布,自2007年11月22日起施行。

杨元元

二〇〇七年九月十日

	.....	i
A	.....	1
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91.3	.....	1
91.5	.....	1
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91.9	.....	2
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91.15	.....	2
91.17	.....	2
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	91.813	.....	43
	91.815	.....	43
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	91.821	.....	44
	91.823	.....	45
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	91.913	.....	48
	91.915	.....	49
	91.917	.....	49
	91.919	.....	50
	91.921	.....	50
	91.923	.....	50
	91.925	.....	50
	91.927	.....	50
	91.929	.....	51
	91.931	.....	51
	91.933	.....	51
	91.935	.....	51
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	91.939	.....	53
	91.941	.....	53
	91.943	.....	53
	91.945	.....	54
	91.947	.....	54
	91.949	.....	55
	91.951	.....	55
	91.953	.....	56
	91.955	.....	56
	91.957	.....	56
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	91.961	.....	57
	91.963	.....	57
	91.965	.....	58
	91.967	.....	58
	91.969	.....	59
	91.971	.....	59
	91.973	.....	59
	91.975	.....	60
	91.977	.....	60
	91.981	.....	60
	91.983	.....	61
	91.985	.....	61
	91.987	.....	62
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91.1023	.....	65
91.1025	.....	65
91.102.....	65	

	91.1323	75
	91.1325	75
P		75
	91.1401	75
	91.1403	75
	91.1405	76
	91.1407	76
	91.1409	76
	91.1411	76
	91.1413	76
	91.1415	77
	91.1417	77
	91.1419	77
	91.1423	77
Q		78
	91.1501	78
	91.1503	78
R		79
	91.1601	79
	91.1603	79
	91.1605	79
	91.1607	79
	91.1609	79
	91.1611	79
	91.1613	80
	91.1615	80
	91.1617	80
S		80
	91.2011	80
	91.2013	80
A		81
B II		82
C		84
D		85
E		88
F		92
		I
		III



A

91.1

91.3

(a)

(b)

G

(c)

O

(d)

(e)

A

91.5

(a)

(1)

(2)

(b)

(1)

(2)

(c)

(b)

(d)

(e)

91.7

(a)

CCAR-61

(b)

(c)



- (3)
- (4) 0.04%
- (b) ( )
- (c) (a)(1) (a)(2) (a)(4)
- (d) 4 (a)(3)
- (e) 4 (c) (d)

**91. 21**

- (a) (b)
- (b) (a)

**91. 23**

- (a) (b)
- (1)
- (2)
- (b)
- (1)
- (2)
- (3)
- (4)
- (5)
- (c) (b)(5)

**91. 25**

- (a) (b)
- (1) 12
- (2)
- (3)
- (b) (a)
- (1) CCAR-121
- (2)
- (c) (a)
- (1) 24 (a)

- (2) (a)
- (3)

48

- (i)
- (ii)
- (iii)
- (d) (c)
- (e)

## B

### 91. 101

### 91. 102

- (a)
- (1) ;
- (2)
- (3) CCAR-36
  
- (b)
- (1)
- (2)
- (3) CCAR-36

### 91. 103

- (a)
  
- (b)
- (1)
  
- (2) (b)(1)

**91. 104**

- (a)
- (b)
- (c)
- (d)

ATC

**91. 105**

- (a)
  - (1)
- (2)
- (b)
  - (1)
  - (2)

**91. 107**

- (a)
  - (1) ( )
  - (2) ( )
  - (3) ( )
- (i)
- (ii)
- (iii)

(b) CCAR-121 (a)(3)

**91. 109**

- (a) ( )
- (1)
- (2)
- (b)
- (1)

(2)

(3)

(i)

(ii)

(c)

(1)

(2)

(3) CCAR-121

### 91. 111

(a)

(b)

(c)

### 91. 113

(a)

(b)

(c)

(d)

500

(e)

(1)

(2)

(3)

(4)

(f)

70

(g)

h

i

### 91. 115

(a)

(b)

(c)

(d)

(e)

**91.117**

(a) 10000 460 / 250 / 3

(b) 370 / 200 / 7.5 4 750 2500

(c)

**91.119**

M

(a)

(b) 600 2000 300 1000  
(c) 150 (500 )

150 (500 )

(d)

(b) (c)

**91.121**

(a) QNH

1013.2  
QNH

(b)

1013.2

(c)

**91. 123**

(a)

(b)

(c)

(d)

48

(e)

**91. 125**

		( )

**91. 127**

(a)

(b)

(c)

91.185

**91. 129**

(a)

91.127

(b)

(c)

(1)

(2)



- (d)
- (1) 91.185
- (2)
- (i)
- (ii)
- (iii)
- (e)
- (1) 450 1500
- (2)
- (3)
- (e)(2) (e)(3)
- (f) 450 1500
- (g) 91.427
- (h) 91.5(a)
- (i)

**91. 131**

- (a) 91.129
- (b)
- (c)
- (d)

**91. 133**

- (a) 91.129
- (b)
- (c)
- (d)
- (1)
- (2) VOR
- (3) 91.427(a)

**91. 135**

(a)

(b)

**91. 137**

6000

d

(a)

(b)

(c)

91.427

(d)

**91. 139**

(a)

NOTAM

(1)

(2)

(3)

(b)

(a)

**91. 151**

(a)

30

45

(b)

20

(c)

(1)

(2)

(3)

(4)

/

**91. 153**

(a)

- (b)
- (1)
- (2)
- (3)
- (4)
- (5) ( )
- (6)
- (7) ( )
- (8)
- (9)
- (c)

**91. 155**

- (a) 91.137
- (b) 91.157
- (1) (b)(2) (3) 3 5 3 1500 8
- (2) 300 900 300 1600
- (i)
- (ii)
- (3) b (2) 1600

**91. 157**

- (a) 91.155 3
- (b)
- (1)
- (2)
- (3) 1600
- (4) CCAR-61 91.407
- (c) 1600

**91. 159**

91.179 900

**91.167**

(a)						
(1)						
(2)				(b)		
(3)	450	1500		30	45	
(4)		(c)(2)				
(b)					(a)(2)	
(1)						
(2)						1
		600		5		
(c)					(a)(2)	
(1)		300			120	3
		1500				
2	(i)					
	(ii)					
	(iii)					
(d)						
(1)						
(2)						
(3)						
(4)						
(5)						
(e)						
(f)						
(1)						
(2)						
(3)						
(4)						
(5)				/		

**91.169**

(a)						
(1)	91.153	(b)				
(2)		(b)				
(b)		91.167	(b)		(a)(2)	
(c)						
(1)						
(i)						MDH
MDA		DH DA	120		1600	
						60
	800					
(ii)					60	1600

(2)

(MEA)

(d)

**91.171**

(a)

VOR

(1)

(2)

30

(b)

(c)

(b)

(c)

(a)(2)

VOR

(1)

± 4°

(2)

VOR

± 4°

(3)

± 6°

(4)

(i)

VOR

VOR

(ii)

VOR

37

(iii)

VOR

± 6°

(c)

VOR(

)

VOR

(d)

(b)

(c)

VOR

± 4°

**91.173**

**91.175**

(a)

(b)

MDH)

(DA DH)

(DA/DH)

/ (MDA MDH)

/ (MDA

(1)

(DA/DH)

(MDA MDH)

(2)

(DA/DH)

(MDA MDH)

(3)

MDH)

(DA/DH)

(MDA

(c)

(MDA MDH)

(DA DH)

(1)

CCAR-121

(2)

(3) II III

(i)

30 (100 )

(ii)

(iii)

(iv)

(v)

(vi)

(vii)

(viii)

(ix)

(x)

(d)

(e)

(1)

(c)

(i)

DH

MDA

(ii)

(DH)

MDA

(2)

MDA

(f)

(1)

( é 0

DME VOR NDB

II III

91.177

IFR

(a)

300

600

(b)

25000

400

600

91.179

(a)

(b)

(1)

8900  
12500

0  
12500

179

600

900

8100

12500

600

1200

(2)

9200

180  
12200

359

600

600

8400

13100

600

1200

(3)

91.180

RVSM

(a)

(b)

(1)

2

(b)

D

RVSM

(a)

91.181

(a)

(b)

91.183

(a)

(b)

(c)

**91. 185**

(a)

(b)

(c)

(b)

(1)

(i)

(ii)

(iii)

(iv)

(c)(1)(iii)

(2)

(i)

(ii)

(iii)

(3)

(i)

( )

(ii)

( )

**91. 187**

(a)

(b) (a)

(1)

(2)

(3)

(4)

**91. 189**

**II**

**III**

(a)

II III

(1)

II III

CCAR-61

(2)

(3)

(b)

II III

(c)

(DA/DH)

(1)

DA/DH

(2)

DA/DH



- (3) DA/DH
- (d) DA/DH II III
- (1) DA/DH
- (2)
- (i) 30 (100 )
- (ii)
- (iii)
- (iv)
- (v)
- (vi)
- (e) (d)
- (f) III
- (g) (a) (f) CCAR-121 CCAR-121  
II III

**91.191 II III**

- (a) (c) II III
- (1) II
- (2)
- (3) II III
- (b)
- (c) CCAR-121

**91.193 II**

- CCAR-97 A
- II 91.189 91.191 91.413 (e)
- II

**91.195**

- (a)
- (b)
- (c) ( )  
a

C

91. 201

- (a)
- (1)
- (2)
- (3)
- (4) 10
- (5) 450
- (6) 5
- (b)

91. 203

91. 205

- (a)
- (1) ( ) 120
- (2)
- (i) 120
- (ii) 60 (a)(2)(i)
- (b) , P
- (c)
- (1) 60°
- (2) 30°
- (d) (c)
- (1)
- (2)
- (e)

91. 207

- (a)
- (1) CCAR-61 61.87
- (2)
- (3) 80%
  
- (i) 80%

- (ii) 25%
- (4)
- (5)
- (b)

**91. 209**

91.207

**91. 211**

- (a)
- (b)
- (c)
- (d)
- (e)
- (f)
- (g)

91.203

**91. 217**

**D**

**91. 301**

- (a) (b)
- (b) CCAR-121 CCAR-135

**91. 303**

- (a) CCAR-145 CCAR-43 43.11 (e)
- (b) (a)
- (1) CCAR-145
- CCAR-43 43.11 (e)

- (2) CCAR-43
- (c)

**91. 305**

- (a)
- (b) 91.303
- (1) 91.307
- (2) 91.443
- (3)
- (c)

**91. 307**

- (a)
- (1)
- (2) 91.309
- (3) (a)(2) 100 12 100 100 CCAR-43 100
- 100 12 CCAR-43 10
- 100 100
- (4) CCAR-43 100
- 100
- (b) (a) 100

- (1) 24 ATC CCAR-43 C
- (2) ATC CCAR-43 C (c)
- (e) 91.443
- (f)

**91. 309**

- (a)
- (1)
- (2) (b)
- (b)
- (1)
- (2)
- (3)
- ( )
- (4)
- (5)
- (6)
- (c) (b)
- (d)

**91. 311**

- (a) (b)
- (b)
- (1)
- (2) 91.307
- (3)
- (4)
- (c) (a)

**91. 313**

(a)

CCAR-21

(b) (a)

(c)

(b)

(d)

91.303

**91. 315**

(a)

(b) CCAR-145

(c)

CCAR-43

(d)

(e)

CCAR-43 91.443

**91. 317**

(a)

(b)

(b)

(1)

(2)

(3)

(4)

(5)

(6)

(7)

(c)

(d)

**91. 319**

(a)

(b)

(b)

- (1)
- (2)
- (c)
- (d)

2

**91. 321**

- (a)
- (b)
- (c)
- (d)

12

**E**

**91. 401**

- (a)
- (1)
- (2)
- (b)
- (c)
- (d)

91.613

(a)

91.613

CCAR-43

CCAR-36

CCAR-34

**91. 403**

- (a)
- (1)
- (2)
- (3)
- (4)
- (b)
- 91. 405
- (c)

**91. 405**

(a)

(1)

(2)

(3)

(4)

(5)

(6)

(7)

(8)

(9)

(10)

(b)

(a)

(c)

**91. 407**

(a) ( )

(1)

(2)

(3)

(4)

(5)

(b)

**91. 409**

**91. 411**

(a) (b)

(1)

(2)

(3)

(b)

(1)

(2)

(3)



- (c)
- (1)
- (2)
- (3)
- (4)
- (d) (c)(2)
- (e) (c)
- (f)
- (g) 121.5

**91. 413**

- (a) :
- (1)
- (2) ( ) ( )
- (b) (a)
- (c) (b)
- (d)
- (e)

**91. 415**

- (a)
- (b)
- (1)
- (2) 30
- (3)
- (4)
- (c)
- (1) 2
- (2)
- (3)

(4)

(5)

(d)

(1)

(2)

(3)

(4)

(5)

(e)

(f)

2

(g)

(h)

19

9x 3

2

(1)

61

99

(2)

99

**91. 417**

(a)

(b)

(1)

(2)

93

50

(b)

(1)

(2)

(3)

(c)

(a)

93

(b)

50

)

(1)

(2)

(d)

**91. 419**

(a)

(1) A

(2) B

(b)

10

- (1) A 10
- (2) B
- (3) A B
- (c) (a) (b)

- (1) A 10
- (2) B

**91. 421**

**91. 423**

- (a) 3000 10000
- (1) 3000 10000 4000 13000 30
- (2) 4000 13000
- (3)
- (b) 3000 10000 (a)
- (c) 7600 25000 4000 13000 7600
- 25000 4
- :
- (1) 10
- (2)
- 10 (3)
- (d) 10500 35000
- 4000 13000 12500 41000
- 5

**91. 425**

/

**91. 427 ATC**

- (a) ATC
- (1)
- (2) 30 100
- (b) ATC (a)

(1) 91.131 91.133  
(2)  
(c) , ATC  
(1)  
(2) 1013.2 ± 38  
125 95%  
(3) TSO-C10b TSO-C88

**91. 429**

(a) (d)  
(b) (a) (b)  
(1)  
(i)  
(ii)  
(2)  
(3)  
(4)  
(5) 900  
3000 ( )

(c)

(d) (a)

(1)

(2)

(3)

(4)

(5)

(6)

(7)

**91. 431**

**91. 433**

(a)

(1)

(i)

(ii)

(iii) 1989 1 1 27000

7000 E I ( ) F IV

( ) 1989 1 1 5700

27000 3180 7000

E II ( ) F V ( )

(iv) 2005 1 1 5700

3180 E IA ( )

F IVA ( )

(v) 25 ( )

10 ( )

(2)

(i) 1987 1 1 5700

3180

(ii)

(iii) 30

(iv) 2003 1 1 5700

3180 , 2

(3)

(i) 2005 1 1

(ii) 2007 1 1

(iii)

(iv) (ADS) (CPDLC)

(D-FIS) (AOC) ( ) /

(4)

(5)

(6)

(i)

(ii)

(iii)

(7)

(b)

(c)

(1)

(2)

(3)

(4)

(5)

15

(d)

60

91. 435

(a) (e) (f)

(1) 2008 7 1

19

19

(2) 2007 1 1

19

19

(3) 2008 7 1

(4) 2007 1 1

(b) (a)

(1)

(2)

(i)

121.5MHZ 406MHZ

(ii) 2010 1 1

121.5MHZ

406MHZ

(iii) 2007 1 1

121.5MHZ 406MHZ

(iv) 2007 1 1

121.5MHZ

2010 1 1

(c)

(a)

(

)

(1)

1

(2) ~~THE BCAP~~

50% (

50% )

( )

- (f) (a)
- (1) 93 (50 )
- (2)
- (3)
- (4)
- (5)
- (6)
- (7)
- (8)

**91. 437**

- (a)
- (1) TAWS 5,700
- 9 (2) 2005 1 1 TAWS 15,000 30
- (3) 2007 1 1 TAWS 5,700 9
- (4) TAWS A TAWS
- (5) B TAWS
- (b) TAWS
- (c)
- (1)
- (2)

**91. 439**

- (a) 19 ACAS II 5700
- (b)
- (c)
- (d) ACAS II TCAS II 7.0

**91. 441**

- (a) 15000 49000
- (b)

**91. 443**

- (a) (d)
- (1)
- (2)

(3)

(i) (b)

(ii)

(4)

(5)

(b)

(1)

(2)

(3)

(c) CCAR-121 CCAR-135

CCAR-121 CCAR-135

(d) (a) (c)

(1)

(i)

(ii)

(2)

(i)

(ii)

(iii)

(iv)

(3)

(i)

CCAR-43 43.19

(ii)

" "

CCAR-43

(4)

CCAR-61

(d)

(e)

## F

91. 501

91. 503

CCAR-25 25.1303

91. 505

(a)

(1)

(2)



(3)

(4)

(b)

(1)

(2)

(3)

(c)

(1) —

(2)

(3)

(b)

( )

( )

**91. 507**

(a)

(1)

(2)

(i)

(ii)

(iii)

(iv)

(v)

(vi)

(vii)

(viii)

(ix)

(3)

(i)

(ii)

(iii)

(iv)

(4)

(i)

(ii)

(5)

(6)

(b)

(1)

(2)

(i)

(ii)

(iii)

(3)

(4)

(b) (c)

( )

( )

1.3V<sub>S1</sub>

(b)(3)

(b)(1)

15 (50 )

(b)(3)

120 400

- (5)
- (c)
- 3
- (1)  $V_R$   $V_2$  CCAR-25 25.107
- CCAR-25 25.101
- (2) 11 35  $V_2$  (
- 115%
- (i)
- (ii) ( )
- (iii) CCAR-25 25.101
- (3)
- (4) CCAR-25 25.121(c)
- (i)
- 1.2%
- (ii) (c)(4)(i)
- (5)
- (6) CCAR-25 25.101
- (d) (c)(4) (5) " "

**G**

**91. 601**

**91. 603**

91.13

- (1)
- (2)

**91. 605**

- (a)
- (b)
- (c) 91.205(b) 91.207 91.913
- (d) (MNPS) 91.607
- (e) (RVSM) 91.609

**91. 607**

- (a) (b)
- MNPS
- (1) C
- (2)
- (b) C 2

**91. 609**

- (a) (b) (R/S/M)
- (1) D
- (2)
- (b) D 5

**91. 611**

- (a)
- (b)
- (c)
- (1)
- (i)
- (ii)
- (2)
- (i)
- (ii)
- (3)
- (d) (c)(1)(ii) VOR DME DME
- DME
- (1)
- (2)
- (3)
- (i)
- (ii)
- (iii)
- (4)

**91. 613**

- (a) 91.401
- (b)

## H

91. 701

91. 703

- (a)
- (1)
- (2)
- (3)
- (4)
- (5)
- (b)

**91. 709**

- (a)
- (1)
- (2)
- (3)
- (4)
- (5)
- (6)
- (7)

H

- (b)
- (1)
- (2)
- (3)
- (4)
- (5)
- (6)

(7)

- (8)
- (9)
- (10)
- (11)
- (12)
- (13)

L  
M N

**91. 711**

- (a)
- (1)
- (2)
- (b)
- (1)
- (2)

J ïVV 'xâÄ,,ZC-p



- 30
- (2) 30
- (e)
- (3) 30 (c)
- (e)
- (1)
- (2)

**91. 719**

- (a)
- (b) (a)
- K

**91. 721**

- (a)
- (1)
- (2) MNPS RNP5/10 RVSM
- (3)
- (i)
- (ii)
- (iii)
- (iv)
- (v)
- (vi) 91.731
- (vii)
- (b) 12 (a)(2) 6 (a)(3) (a)(3)
- (c) 12 L 91.1037
- (d)

**91. 723**

- (a)
- (b)
- (1)
- (2)
- (c)
- (d)

**91. 725**

(a)

(b)

**91. 727**

(a)

(b)

(c) (a)

(d)

(e) (f)

(f)

(g)

**91. 729**

(a)

(b)

(c)

(d)

(e)

(f)

(g)

(h)

(i)

(j) 91.1019

(k)

(l)

(m)

(n)

(o)



- (1)
- (2)
- (3)
- (p)
- (q)

**91. 731**

- (a)

- (1)
- (2)
- (b)

CCAR-61

CCAR-61

- (1)
- (2)
- (3)
- (4)

7

10  
40  
120  
1400

**91. 733**

- (a)

- (2)
- (3)
- (b)

(a)

- (1)

A B C D E F G L P Q

- (2)

(1)

M

- (3)

(1)

N

**91. 805**

**91. 807**

- (a)

- (b)

30

- (c)

- (d)

- (1)

- (2)

- (e)

- (1)

(d)

- (2)

2

**91. 809**

- (a)

- (b)

- (c)

- (d)

- (e)

- (f)

- (g)

- (h)

- (i)

- (j)

- (k) L
- (l) M
- (m) N
- (n)
- (o)
- (p)

**91. 811**

- (a)
- (1)
- (2)
- (3)
- (4) (b)
  
- (b)
  
- (1) 7
- (2) 7
  
- (c)

**91. 813**

- (a)
- (b)

**91. 815**

- (a)
- (1)
- (2)
- (b) (e)
- (1)
- (2) 7
  
- (3)
- (i)
- (ii)
- (iii)
- (4) 30
  
- (i) (e)
- (ii) (d)
- (c)
- (1) 15
- (2)
- (3)
- (i)
- (ii)

(iii)

(d)

(4)

(d)

(1)

30

(2)

30

(e)

(3)

30

(c)

(e)

(1)

(2)

### 91. 817

(a)

(b)

(a)

K

### 91. 819

(a)

(1)

(2)

MNPS RNP5/10 RVSM

(3)

(i)

(ii)

(iii)

(iv)

(v)

(vi)

91.829

(vii)

(b)

(a)(3)

(a)(2) (3)

12

(c)

L

91.1037

(d)

### 91. 821

(a)

(b)

- (1)
- (2)
  
- (c)
- (d)

**91. 823**

- (a)
  
- (b)

**91. 825**

- (a)
  
  
- (b)
- (c)           (a)
  
- (d)
  
  
- (e)           (f)
  
- (f)
  
- (g)

**91. 827**

- (a)
- (b)
  
- (c)
- (d)
  
- (e)
- (f)
- (g)
- (h)
  
- (i)
  
- (j)           91.1019
- (k)

- (l)
- (m)
- (n)
- (o)

- (1)
- (2)
- (3)
- (p)
- (q)

**91. 829**

- (a)
- (1)
- (2)
- (b)

CCAR-61

CCAR-61

- (1)        7                                40
- (2)    120
- (3)    1400

**K**

**91. 901**

- (a)

- (b)        91.941        91.997

- (1)                    5700
- (2)
- (3)                    2730
- (c)

**91. 903**

- (a)

- (b)
- (1)

- (2)
- (3)
- (4)

- (c)
- (1)
- (2)
- (3)

(d)

- (e)
- (1)
- (2)
- (f)

(g)

(h)

- (1)
- (2)
- (3)
- (4)
- (5)

**91. 905**

- (a)
- (1)
- (2)
- (3)
- (b)

(a)

(1)

A B C D E F G L P Q

(2)

(1)

M

(3)

(1)

N

**91. 907**

(a)

(b)

91.901(b)

J

**91. 909**

(a)

(1)

(2)

(3)

(4)

(5)

(b)

30  
45

91.901(b)

(c)

(d)

(1)

(2)

(e)

(1)

(2)

(d)

2

**91. 911**

(a)

(b)

(c)

(d)

(e)

(f)

(g)

(h)

(i)

(j)

(k)

**91. 913**

(a)

(1)

(2)

(3)

(4)

(b)

(b)



(1)

7

(2)

7

(c)

**91. 915**

(a)

(b)

**91. 917**

(a)

(1)

(2)

(b)

(e)

(1)

(2)

7

(3)

(i)

(ii)

(iii)

(4)

30

(i)

(e)

(ii)

(d)

(c)

(1)

15

(2)

(3)

(i)

(ii)

(iii)

(4)

(d)

(d)

(1)

30

(2)

30

(e)

(3)

30

(c)

(e)

(1)

(2)

**91. 919**

- (a)
- (b)
- (c)
- (d)

**91. 921**

- (a)
- (b) 91.1001 (d)
- (c)

**91. 923**

- (a)
- (1) 91.919 91.925
- (2)
- (3)
- (b)
- (c)

**91. 925**

- (a)

- (1)
- (2)
- (3)
- (b)

**91. 927**

**91. 929**

(a)

(b)

(1)

(2)

(c)

(d)

**91. 931**

(a)

(b)

**91. 933**

(a)

(b)

(c) (a)

(d)

(e) (f)

(f)

(g)

**91. 935**

(a)

(b)

(c)

(d)

(e)

(f)

(g)

(h)

(i)

(j) 91.1019

(k)

(l)

(m)

(n)

(o) 91.947(c)

91.947(b)

(1)

(2)

(3)

(4) ( )

(5)

(6)

(p)

(1)

(2)

(3)

(q)

(r)

**91. 937**

(a)

(1)

(2)

MNPS RNP5/10 RVSM

(3)

(i)

(ii)

(iii)

(iv)

(v)

(b) 91.901(b)

(1)

(a)(3)

(i)

(ii)

(iii)

(iv)

(v)

(2)				
(i)				
(ii)				
(c)		(a)(2)	6	(a)(3) (b)
(b)	12			(a)(3)
(d)			12	
(1)				
(2)				
(3)				
(4)				
(5)				
(6)				
(7)				
(8)				
(e)				

- (3)
- (4)
- (b) (a)(1)
- (1)
- (2)
- (3)
- (4)
- (5)
- (6)
- (c) (a)(2)
- (1)
- (2)
- (3)
- (4)

**91. 945**

- (a) (f)
- (1)
- (2)
- (3)
- (4)

15 50

85

(1)

(2)

(c)

(b)

(d)

(d)

(b)

15 50

85

(e)

(b)

115

(b)

**91. 949**

(a)

(1)

(2)

(b)

(a)(1)

(d)

**91. 953**

(a)

(b)

(

)

**91. 955**

(a)

91.959

(b)

(1)

(2)

91.963

91.967

(3)

(4)

(5)

(c)

91.963

91.965

(d)

(e)

**91. 957**

(a)

(1)

(2)

(3)

(b)

(1)

(2)

(3)

(4)

**91. 959**

(a)

(1) VFR

1200

500

IFR

(2)



- (3)
- (b)

(a)

**91. 961**

- (a) 100
- (1)
- (2) 1200 (3/4 ) (RVR)
- 1200 (4000 )
- (3)
- (4) " "
- (5) 7 / (15 / )
- (6)
- (7)
- (b) 75

- (1)
- (2)
- (3)

**91. 963**

- (a)
- (1)
- (2)
- 24
- (3)
- (4)
- (5) 60 60 5
- (6)
- (b) 91.963 91.965
- (c) 24 10
- (d) 91.965
- (e)

**91. 965**

- (a) ) (
- (1) 7 40
- (2) 120
- (3) 1400
- (b)

	10	10
	14	14 16
	10	10 12
	10	12
	14	18

(c)

	10	10
	18	18 20
	14	16
	14	18
	18	24

**91. 967**

- (a) 12 ( )
- (1) CCAR-61
- (2)
- (3)
- (4)
- (5)
- (6)
- (7)
- (8)
- (i)
- (ii) ( ) )
- (iii) ( ) ( ) )

(9)

(b) 12

( )

(c)

(d)

(e)

91. 969

(c)

(d)

(e)

(f)

**91. 975**

(a)

(1) CCAR-121

(2)

(3)

(b) (a)

**91. 977**

(a)

(b)

(c)

30

**91. 981**

(a)

(b) 91.967 91.971  
12

(c)

(1)

(i)

(ii)

(iii)

(iv)

- (2)
- (3)            91.983
- (d)
- (e)                            91.987            91.989
- (f)

91.987(b)

91.991

- (g)
- (1)
- (2)

**91. 983**

- (a)
- (b)
- (1)
- (2)
- (i)
- (ii)
- (iii)
- (3)
- (i)
- (ii)
- (iii)

- (iv)
- (v)
- (4)
- (c)

- (1)
- (2)
- (3)
- (4)
- (5)
- (6)
- (7)

(d)    7600    (25000    )

- (1)
- (2)
- (3)
- (4)
- (5)
- (6)

**91. 985**



(3)

**91. 991**

(a)

(b)

(1)

(2)

(c)

91.987

CCAR-61

(d)

91.967

**91. 993**

**L**

**91. 1001**

(a)

CCAR-121

(b)

CCAR-121

(1)

(2)

(3)

(4)

(5)

(d)

(6)

(c)

(7)

(c)

(1) "

"

(d)

(2) "

"

(3) "

"

(d)

(b)(3) (c)(1)

(1)

(2)

- (3)
- (4)
- (5)
- (6)
- (7)
- (8)
- (9)
- (10) (d)(1) 100%

**91. 1003**

- (a)
- (1)
- (2) (b)
- (3)
- (4)
- (5)
- (b)
- (1)
- (2)
- (3)
- (4)
- (5)
- (6)
- (7)
- (c) (b)(7)
- (1)
- (2)
- (3)
- (4)
- (d)

**91. 1005**

- (a) ( )  
91.11(b)
- (b)

**91. 1015**

- (a) 91.119 (b)
- (1) 300 (1000 ) 300 (1000 )
- (2) 91.177
- (b)
- (1)
- (2) P
- (3) 91.157



**91. 1017**

(a) (b)

(b) (a)

(c) " "

(d) 91.107(a)(3) " "

(e) (b) (c) (d)

**91. 1019**

(a)

(1)

(2) ( )

(3)

(4)

(5)

(6)

(b) (a)

(1)

(2)

(c) (b)

**91. 1023**

19

(a)

91.1025

(b)

CCAR-25 25.561(b)(3)

**91. 1025**

(a)

(1)

(2)

(3)

(i)

(ii)

(iii)

(iv)

- (v)
- (b)

**91. 1027**

- (a)
- (1)

- (2)
- (b)

- (1)
- (2)

- (c)

- (d)

(b) (c)

**91. 1029**

- (a)

- (b) 50

6

**91. 1031**

- (a) (b)
- (1)
- (2)

- (3)

9

- (b)

(a)

- (c)

CCAR-61

**91. 1033**

- (a)
- (1)
- (2)
- (3)

20 50  
51 100  
100  
50

50

50

- (b) (a)

**91. 1035**

- (a)
- (1)
- (2)
- (3)
- (4)
- (b)

**91. 1037**

- (a) 91.721      91.819
  
- (b) 12
  
- (c) 12
  
- (1)
- (2)
- (3)
- (4)
- (5)
  
- (6)
- (7)
- (8)
- (d) (c) 30
- (e)

**91. 1039**

- (a)
- (b)
- (1)
- (2)
- (3)
  
- (c)

**M**

**91. 1101**

- (a)

(b)

H J K

(c)

N

(d)

N

(e)

(1)

(2)

(3)

### 91. 1103

(a)

(a)(1)(ii) (iv)

(1)

(i)

(ii)

(iii)

(iv)

(v)

(vi)

(2)

(i)

( )

(ii)

(iii)

(iv)

(v)

(vi)

(b)

(c)

(a)

(a)

(b)

**91. 1107**

(a)

(b)

(c)

**91. 1109**

**91. 1111**

**91. 1113**

**91. 1115**

150

150

**91. 1117**

(a)

(1)

(2)

(b)

(b)

(1)

(2)

(3)

(4)

(i)

(ii)

91.119(b)

(iii)

(5)

(i)

105

115

(ii) 1 20 1  
1500 5000 300 1000  
0.254 / 50 /

(iii) 91.119(b)

**91. 1119**

(a)  
(b)  
(1) 25 10 12  
(2) 100  
(c) 45

**91. 1121**

(a)  
(b)  
(c)  
(d)  
91.1103(a)

**N**

**91. 1201**

(a)  
(b) H J K 91.1217 91.1221 91.1223  
/  
(c)  
(1)  
(2) CCAR-27 CCAR-29  
(3)  
(4)

**91. 1203**

- (a) CCAR-27 CCAR-29 ( )
- (b) 91.1217 91.1221 91.1223 /
- (c)

**91. 1205**

- (a) 91.1203
- (b) (a) 91.1207
- (c) 30
- (b)

**91. 1207**

- (a) (d) 91.1205(b)
- (b) (c)
- (b)
- (1)
- (2)
- (3)
- (4)
- (5) /
- (c)
- (1)
- (2)
- (3)
- (4)
- (5)
- (6)
- (7)
- (d)
- (a)

**91. 1209**

- (a) A ( ) A B C D
- (b) B
- (c) C
- (d) D A B C

**91. 1211**

(a) 91.1223

(b)  
(1) 91.1203

(2) /

(c) ( / )

(1) /

(2)

(3)

(4)

(5)

(6)

(d)

(1)

(2)

(e) 91.1217 150 150

(f) IFR IFR

**91. 1213**

(a)

(1)

(2)

(3)

(b)

**91. 1215**

(a)

(1) 91.1207 / (

(2) (a)(1)

(b) D 12

(c) 12 (b)



**91. 1217**

- (a) (b) (c) (d)
- ( )
- (b) A
- (1)
- (2)
- (3)
- (4)
- (c) B D
- (1)
- (2)
- (3)
- (4)
- (5)
- (6)
- (d) C
- (c)

**91. 1219**

- (a) CCAR-27 CCAR-29 CCAR-21
- (b) C

**91. 1221**

- (a) 91.1219(b)
- (b) 91.1217 91.1219
- (c) 91.1217(b) (c) (d)
- (d)
- (e) D
- (1) A
- (2)
- (3)
- (4)

**91. 1223**

CCAR-27 CCAR-29

—

- (a) ( )
- (b) 91.1217 91.1219
- (c)
- (1)
- (2) B C D
- (3)

**91. 1225**

- (a) 91.1221(a)
- (b) 91.1221(c)

**O**

**91. 1301**

- (a) 71 155
- (b)
- (1) 116 254
- (2) 20 5
- (3) 100 / 55 /
- (4) 45 / 24 /

**91. 1303**

- (a)
- (b)

**91. 1305**

**91. 1307**

- (a)
- (b)
- (c)

**91. 1309**

- (a)
- (b)

**91. 1311**

(a)			
(b)			5
30		30	

**91. 1313**

- (a)
- (b)
- (c)

**91. 1315**

**91. 1317**

**91. 1319**

**91. 1323**

**91. 1325**

91.155

**P**

**91. 1401**

**91. 1403**

**91. 1405**

- (a) 1
- (b)
- (1)
- (2)
- (3)
- (i) VOR 55 VOR
- (ii) VOR 55
- (4)
- (5)
- (6)
- (7)
- (c)

**91. 1407**

- (a)
- (1) 5
- (2) (a)(1)
- (3)
- (b)

**91. 1409**

- (a)
  - (b) (a)
- 4

**91. 1411**

**91. 1413**

- (a)
- (b)

350	5	150 300 600

350 3	5	150 300 600
350 3	8	300 300 2

**91. 1415**

- (a) 5
- (b) (a)

**91. 1417**

- (a)
- (b)

**91. 1419**

( )

**91. 1423**

- (a)
  - (1) 120
  - (2)
  - (i) 120
  - (ii) 60 (a)(2)(i)
  - (b)
  
- (1)
- (2)
- (i) 13 (28 )
- 73 160
- (ii) 25 56
- 145 320
- (3)
  
- (c) (b)
- (d)

Q

91. 1501

- (a) 91.1503
- (b)
- (c)

91. 1503

91.107	
91.111	
91.113	
91.115	
91.117	
91.119	
91.121	
91.123	
91.125	
91.129	
91.131	
91.133	
91.135	
91.137	
91.139	
91.153(b)	
91.155	
91.157	
91.159	
91.169(a)	
91.173	
91.175	
91.177	
91.179	
91.181	
91.183	
91.185	
91.187	
91.201	
91.203	
91.207	
91.407	
91.607	
91.1015	

# R

## 91. 1601

- (a)
- (b)

## 91. 1603

91.13

## 91. 1605

91.17

## 91. 1607

- (a) 91.19 (a) 91.19 (c)
- (b) (a)  
CCAR-61

## 91. 1609

- (a) B C D E  
F L  
M N
- (1)
- (2)

## 91. 1611

- (a) H J  
K
- (b)
- (1)
- (2)
- (3)
- (b) (a)

- (1)
- (2)
  
- (3)
- (4)
- (c)

**91. 1613**

**91. 1615**

O

**91. 1617**

P

S

**91. 2011**

2007 11 22

**91. 2013**

177                    2007 2 14                    2007 6 1



A

(1) 5700  
(2)  
(3) 3180

(1)  
(2)  
(3)  
(4)  
(5)

(1)  
(2)  
(3)

(1)  
(2)

(1)  
(2)  
(3)  
(4)  
(5)

A

CCAR- 29

B

A

B

B II

1 II

(a)

II

II

(1)

(2)

(

10

)

(b)

II

(1)

II

4

(2)

(3)

(i)

(ii)

(iii)

(iv)

(

)

(v)

ILS

(vi)

(vii)

(viii)

(ix)

(x)

2

II

91.413

(a)

(1)

ILS

(2)

ILS

(3)

ILS

(4)

(5)

(6)

(7)

(8)

(9)

ILS

ILS

ILS

(10)

45

150

II

(1)

(b)

(1)			(1)(4)(5)	(9)					III
(2)									
(3)									
(4)									
(5)									
<b>3</b>									
(a)	2				II			12	
(1)									
(2)			CCAR-43		D				
(3)			2	(a)					
(b)									
	III				(e)				
		II							
(c)									
(1)									
(2)								± 5	5%( )
(i)									± 5°
(ii)					20				
(iii)					200	/			
(iv)	30	60	(100	200	)		4.5	/	(15 / )
(3)									
(4)			60	(200	)				10%
									0.1
						1			
(5)	"	"					150	(500	)
(	)								
(6)									
(d)	2							II	
(e)									
(1)	II								
(2)									50
							5		
									30 (100
)									)
(i)	30	(100	)			90%			(
									)
(ii)	30	(100	)						
(iii)									
50%									
(iv)									
(v)									
(3)									

- (i)
- (ii)
- (iii) 30 100
- (iv)
- (v)
- (vi)
- (vii)
- (4)

**4**

- (a)
- (1) 2 II
- 2(a)
- (2) 3 (5)
- CCAR-43
- II
- (3) 12 2 (a)
- (4) 12 CCAR-43 D
- (5) 2 (a)
- II
- (6)
- (7) II
- (8) II CCAR-43 43.19
- II
- (b)
- (1)
- (2)
- (i)
- (ii)
- (iii) II
- (c) 12

**C**

- 1 MNPS
- (a) 11.7 6.3 68% ±2
- ±1
- 95%
- (b) 55.6 (30 )
- 5.3× 10<sup>-4</sup> ( 1887 1 )
- (c) 92.6 129.6 (50 70 )

$13 \times 10^{-5} ( 7693 \quad 1 \quad )$   
 2  
 91.607  
 91.607  
**D**  
**1**  
**(RVSM)** 8900 29000  
 12500 41000 300 1000  
 RVSM 8900 29100 12500 41100  
 RVSM  
 RVSM 8 RVSM  
**RVSM**  
 (a)  
 (b)  
 (c) RVSM  
 (1)  
 (2)  
**RVSM** **RVSM** **RVSM** **RVSM**  
 /  
 (a) RVSM  
 (1) 8900 29000 8900 29100  
 (i) 12500 41000 12500 41100 (RVSM  
 )  
 (ii)  
 (iii)  
 (2)  
 (i) ( )  
 (ii)  $V_{mo}/M_{mo}$   
 (3) (1) (2)  
 (b) RVSM RVSM  
 (1) ( )  
 (2) RVSM /  
 0.04  
**2**  
 (a) RVSM  
 (b)  
 (1) RVSM  
 (2) RVSM  
 (3) RVSM  
 (4) RVSM  
 (c)  
 RVSM

(1)

- (ii) RVSM
- (iii) RVSM
- (2) CCAR-121
- (3) CCAR-121
- RVSM
- (d)
- (1) RVSM
- (2) RVSM
- 4 RVSM**
- (a) RVSM
- RVSM
- RVSM
- (b) RVSM
- RVSM
- (1)
- (2) 2
- 5**
- 91.607 RVSM
- 3
- (a) ( 48
- )
- (b) 3 RVSM
- 6**
- (a) 90 300
- (b) 75 245
- (c) 90 300
- 7**
- G
- RSVM
- (a) RVSM
- (b)
- (c)

E



	6)			
27			1	
28	GPWS( )		1	
29			0.5	
30	( )		2	
31	( / ) ( 7)		1	
32			4	
32 /				

- 1 V<sub>SO</sub>
- 2 V<sub>b</sub>
- 3
- 4
- 5
- 6
- 7

" "

" "

(a) (EI CAS) (EFIS) (ECAM)

(1)

(2) NAV / VXR SECTOR PLAN 360° ROSE  
COMPOSITE COPY

(3)

(4)

(b)

(c) ( )



46 \*  
 47 ( )\*  
 48 ( )\*  
 49 ( )\*  
 50 ( )\*  
 51 ( )\*  
 52 ( )\* / ,  
 53 \*  
 54 (EFIS) \*  
 55 / / \*  
 56 (GPWS) / (TAWS) / (GCAS) \*  
 57 ( )  
 58 \*  
 59 \*  
 60 (TCAS) / (ACAS) \*  
 61 \*  
 62 \*  
 63 \*  
 64 \*  
 65 \*  
 66 \*  
 67 \*  
 68 \*  
 69 \* (ILS) (MLS) ,  
 (GNSS)  
 70 \* (ILS) , (MLS) ,  
 (GNSS)  
 71 (DME) 1 2 \*  
 72 \* (GNSS), (INS), /  
 (VOR/DME), (MLS), C(Loran C), (ILS)  
 73 \*:  
 74 \*  
 75 \*  
 76 \*  
 77 \*

F

	1	IV	V	( )	( )
1	( )	24	4		± 0.125%
2		-300 (-1000 ) +1500 (+5000 )	1		± 30 ± 200 (± 100 ± 700 )
3			1		± 3
4		360°	1		± 2°
5		-3g +6g	0.125		± 1
6		± 75°	0.5		± 2°
7		± 180°	0.5		± 2°
8		- ( )	1		
9	( 1 )		1( )		± 2
10		50 130	0.5		± 2
11	/ ( ) 2)		1		± 2
12	( )		2		
13			2		± 2
14	/ /		1		
15			1		
15 V					
16			1		
17			2		
18	( )	± 1g	0.25		± 1.5 ± 5
19		0 200	0.5		± 3
20		± 1g	0.25		± 1.5 ± 5
21		± 1g	0.25		± 1.5 ± 5
22		-6 750 (-20 2500 )	1		150 (500 ) ± 0.6 (± 2 ) ± 3 ( ) 150 (500 ) ± 5
23			1		± 3
24			1		± 3
25			1		
26			1		
27	1 2 ( 3 )		4		
28	1 2 ( 3 4 )	0 370	4		
29	( ) ( 5 )		2		
30			4		
30 IV					

1  
2  
3  
4  
5

" "

" "

(a) (EI CAS) (EFIS) (ECAM)

(1)

(2) / SECTOR PLAN 360° ROSE  
NAV VXR POSI TE COPY

(3)

(4)

(c) ( )

	<b>2</b>	<b>IVA</b>		
	(	(*)		
	(*)			)
1				
2				
3				
4				
5				
6				
7	(	)		
8				
9	*		/	
10	*			
11				
12				
13				
14			(N)	(N)
15				
16		*		
17		*		
18		(T <sub>4</sub> )*		
19		TIT *		
20			*	
21	*			
22		*		
23				
24				
25			/	
26				
27				
28			*	
29		*		
30		*		
31	*		(ILS)	(MLS) ,
(GNSS)				
32	*		(ILS) ,	(MLS) ,
(GNSS)				
33	(DME)1 2	*		
34	*			
35			(HMS)*	

CCAR-91 " " 2004 1 14

CCAR-91 2004 6 1

1 CCAR-43 D " "

2 K L E 91.405

" "

3 B 91.175

E 91.401 91.403 91.407 91.411 F 91.405

E

91.175(h)(2)	
91.301 91.321	
91.401	- (a)(1) " ... "
	- (c) " ... CCAR-43 "
	- (d) " CCAR-34 "
91.403	- " "
	- " "
	- " ... "
	- (a) (a) (b) (b) (c) (14) " "
	- (b)(11) " ... (15) " 91.405 "
	- (d)(1) " (b) (c) "
	- h " 2007 1 1





RVSM  
 1 RVSM B 91. 179  
 2 91. 180 D E  
 L A  
 3 A B

91. 5	- (a) (1) (2) - (b) (c) - (d) (e)
91. 8	
91. 102	
91. 104	
91. 151	(c)
91. 153	(a) (b) (a)
91. 167	
91. 179	- (b) (1) " ... 8900 12500 600 12500 1200 " - (b) (2) " ... 9200 12200 600 13100 1200 "
91. 180	
91. 195	

91. 403	-	"	"
	-		91. 405 407
91. 405	-	"	"
	-		91. 435
91. 407		"	"
91. 409	-	"	"
	-		91. 423
91. 411	-	"	"
	-		91. 443
91. 413	-	"	"
	-		91. 427
91. 415	-	"	"
	-		91. 427
91. 417	-	"	"
	-		91. 429
91. 419	-	"	"
	-		91. 439
91. 421	-	"	"
	-		91. 437
91. 423	-	"	"
	-		91. 433
91. 425			
91. 427` 0			91. 413 91. 415
91. 429			91. 417
91. 431			
91. 433			

91. 439		91. 419
91. 441		
91. 443		91. 411
91. 1007	-	91. 407
	-	
91. 1009	-	91. 417
	-	
91. 1011	-	91. 411
	-	
91. 1013	-	91. 415
	-	
91. 1021	-	91. 415
	-	
A	"	" " A " " B "
D	- 1.	(RVSM)
	" ...	8900 29100 12500
	41100 "	
	- 1.	RVSM (1) "
	8900 29100 " (2)	" 12500 41100
	"	
	- 2	(d) (2) (5) 40 200 " 60
	200 "	
	- 2	(g) (g) (h)
	- 8	

2007 7

8 3  
2007 X XX