



2007 9 10

《一般运行和飞行规则》(CCAR-91-R₂)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

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	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
	91.937	.....	52
	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
	91.959	.....	56
	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
	91.989	.....	62
	91.991	.....	63
	91.993	.....	63
L		.....	63
	91.1001	.....	63

91.1003	.....	64
91.1005	.....	64
91.1015	.....	64
91.1017	.....	65
91.1019	.....	65
91.1023	.....	65
91.1025	.....	65
91.102/TT0 1 Tf0.0024 Tc 1.251 0 Td(91)5(.1)5(02)5(3)TJ/C20 1 Tf0 Tc 3.503 0 Td4D35Fj/TT0 18C20.19...D.....		

	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
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	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)

91. 8

- (a)
- (b)

- (c)
- (1)

- (2)

91. 9

- (a)
- (b)

91. 11

- (a) (d)

- (b) CCAR-121 121.137(b)

- (c) CCAR-45

- (d) CCAR-29 -

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

91. 13

91. 15

91. 17

91. 19

- (a)
- (1) 8
- (2)

- (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)

(

DME VOR NDB

II III

91.177

IFR

(a)

300

600

(b)

25000

400

600

91.179

(a)

(b)

(1)

8900

0

179

600

900

8100

600

12500

1200

(2)

9200

180

359

600

600

8400

600

13100

1200

(3)

91.180

RVSM

(a)

(b)

RVSM

(1)

D

2

(b)

(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 II III CCAR-121

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)

91.203

(d)

(e)

(f)

(g)

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

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) 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_{S1}

(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)

- 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)(2) (3) 12 L
- (c) (a)(3)
- 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)

N

- (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) (d)
- (4)
- (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)

- (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) 91.987 91.989
- (3) 91.983
- (d) 91.987(b)
- (e) 91.991
- (f)

(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 12

- (c)

- (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) üó À\$'0ú/òËN² n 5(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)
- 3**
- (a) 2 II 12
- (1)
- (2) CCAR-43 D
- (3) 2 (a)
- (b) III (e) II
- (c) II
- (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
- (5) " " 1 150 (500)
- (6)
- (d) 2 II
- (e) II
- (1) II
- (2) 50 5 30 (100) 90%
- (i) 30 (100) ±5 ()
- (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× 10⁻⁴ (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**
 / **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) RVSM
 (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_{SO}
- 2 V_b
- 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) ()

	2	IVA		
	((*)		
	(*))
1				
2				
3				
4				
5				
6				
7	()		
8				
9	*		/	
10	*			
11				
12				
13				
14			(N)	(N)
15				
16		*		
17		*		
18		(T ₄)*		
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 33	^	€°	
91. 427			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