



中国民用航空总局

182

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J36.203		76
J36.205		76
D	36.805	77
J36.301		77
J36.303	[]	77
J36.305		77
		78
		78
		78
		78
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A

36.1

(a)

(1)

8618

"

"

8618

19000

610

(2)

	(10)	"		"					B	B36.5	(d)
	(11)	"		"		2002	3	21			
16	I	7		4	4.4						
	(g)										
	(h)										
	(1)	"		"						H	H36.305
									J	J36.305	
	(2)	"		"							
									J	J36.305	
	(3)	"		"							H
H36.305									J	J36.305	
	(4)	"		"						H	H36.305
			()						J
J36.305											
	(5)	"		"							
	[2007	4	15]						
	36.2										
	(a)	21		21.17							5
										5	
	(b)	21		21.101						21.93	
											5
											5
	(c)										
	(1)										
	(2)										
	(3)										
	[2007	4	15]						

36.3

36.5

36.6

(a)

(b)

(1)

(c)

(2)

(c)

(1)

(IEC)

- (i) IEC 179 " " 1973
- (ii) IEC 225 "
" 1966
- (iii) IEC 651 " " 1979
- (iv) IEC 561 " " 1976

(v) IEC 804 " " 1985

(vi) IEC 61094-3 " 3

1.0 1995 "

(vii) IEC 61094-4 " 4

1.0 1995 "

(viii) IEC 61260 "

1.0 1995 "

(ix) IEC 61265 "

1.0 1995 "

(x) IEC 60942 " 2.0 1997 "

(2)

(SAE)

(i) SAE ARP866A "

" 1975 3 15

(3)

" 16 I

" 1993 7 2002 3 21 7

[2007 4 15]

36.7

(a)

(CCAR-21)

(b)

(1)

A

(2)

B

B36.7

B36.8

B

B36.5

(c)

(b)

(1)

B

B36.6

(2)

(i)

(ii)

(d)

(b)

(1)

2

(i)

(A)

3EPNdB

(B)

(ii)

B
3EPNdB

B36.6

()

(iii)

(2)

2

(i)

(ii)

(e)

(b)

(1) []

(2)

(3) []

(4)

(f)

[2007 4 15]

36.9

(CCAR-21)

(a)
36.501
(b)

(1) 36.501
(2) 36.501

36.11

(CCAR-21)

H 3175 7,000
J
(a)
(1) H B C
3175 7,000
J
J B C
(2) H D H H36.305
J D
J J36.305
(b) 36.805 (c) H H36.305 (a)(1)
H36.305 (b)
J
J J36.305 (a)
(c)
[2007 4 15]

B

36.101

A

[2007 4 15]

36.103

(a) B B36.8 A
(

)
 (b) 2006 1 1
 B B36.5(c)
 (c) 2006 1 1
 B B36.5(d) 2006 1 1
 36.7

(f)
 [2007 4 15]

36.105

CCAR-36 CCAR-36 B CCAR-36
 2002
 3 21 16 I 2 7 4
 [2007 4 15]

C]

[2007 4 15]

D]

E]

F 章 螺旋桨小飞机和螺旋桨通勤类飞机

36.501

(a)
 (1)
 (2) []
 (3)
 (i) (a)(3)(ii)
 F G
 (ii)
 (A) (B)
 (C) (D) F

G (E)
(b) 1988 11 17
F B C

F D

(c) 1988 11 17
G B C

G D

G 章 [备用]

H 章 直升机

36.801

H B

3175 7,000

J

J B

[2007 4 15]

36.803

36.801 H
H A H C
36.801 J
J A J C

36.805

(a) 36.11 (b)

H D

J D

(b) (d)(2)

H

H36.305

J

J J36.305

(c) []

(d)

(1) (d)(2)

H

H

(2)

(i)

(ii)

(iii)

(iv)

(v)

H

I~N 章 [备用]

O 章 文件、使用限制和资料

36.1501

(a)

()

(b)

36.1581

(a)

36.1583

(1)

B

(2)

G

(3)

H

J

(b)

36.1581 (a)

(c)

"

"

(d)

(e)

F

G

(f)

(CCAR-27)

27.25 (a)

(CCAR-29) 29.25 (a)

(g)

(d) (e) (f)

36.1583

(a)

(b)

36.1581

(CCAR-36)

[2007 4 15]

36

A 36.101

A36.1

A36.2

A36.3

A36.4

A36.5

A36.6

A36.7

A36.8

A36.9

A36.1

A36.1.1 36.101 36.803
EPNL

A36.1.2

A36.1.3

A36.1.4 16 I 2002 3
21 7 2

A36.2

A36.2.1

A36.2.1.1

A36.2.2

A36.2.2.1

80°

A36.2.2.2

(a)
(b) 10 (33) -10°C
35°C 14°F 95°F 20 95

(c) 10 33
8kHz 12dB/100
(1) ±0.5°C ±0.9°F

A36.2.2.3

(2) PNLT 400Hz
(d) 10 (33) 3150Hz
PNLTM ±0.5dB/100 ±1.6dB/1000
A36.2.2.3

10 33 PNLTM

(e) 10 33 22 / 12
13 / 7 30 10dB
10 10dB 28 / 15
18 / 10

(f)

(g) 30

A36.2.2.3 A36.2.2.2(c) A36.2.2.2(d)
10 33 30
100 3150Hz ±0.5dB/100
±1.6dB/1000 PNLTM

A36.2.2.4

A36.2.3

A36.2.3.1

A36.2.3.2 PNLT 10dB

A36.2.3.3 A36.9

A36.3

A36.3.1

A36.3

A36.3.1.1

/

A36.3.1.2

A36.3.1.3

IEC61094-3

IEC61094-4

0°

"

"

90°

" "

A36.3.1.4

0°

A36.3.1.5

/

A36.3.1.6

20

10

1

/

dB

1V

dB

20µPa

dB
93.98dB

A36.3.1.7

dB

20µPa

10

10

A36.3.1.8

dB

A36.3.1.9

dB

A36.3.1.10

dB

A36.3.1.11

Hz

A36.3.1.12

dB

A36.3.1.13

dB

A36.3.1.14

dB

A36.3.1.15

dB

A36.3.1.16

dB

A36.3.2

A36.3.2.1

- (a) 23°C 73.4°F
- (b) 101.325
- (c) 50%

A36.3.3

A36.4

A36.3.3.1

- (a) (A36.3.4)
- (b) (A36.3.5)
- (c)
- (d) (A36.3.7)
- (e) (A36.3.8)

A36.3.6

A36.3.3.2

28kHz
12.5kHz
50dB

A36.3.4

A36.3.4.1

50Hz 10kHz
±1.5dB

A36.3.5

A36.3.5.1

A36.3.5.2 A36.3.5.4

A36.3.9

A36.3.5.2

1.2 4

A36-1

A36.3.5.3

50Hz 5kHz
±1.0dB

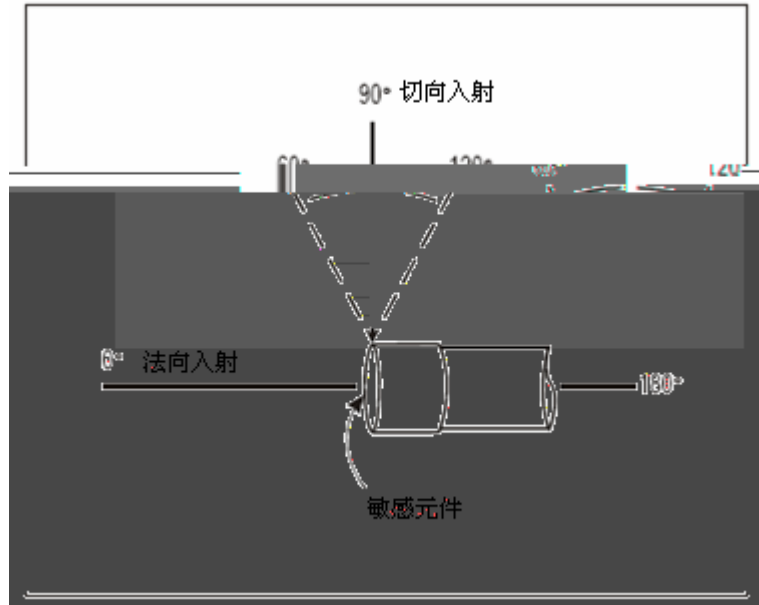
6.3kHz 8kHz 10kHz ±2.0dB

A36.3.5.4

50Hz 10kHz
30° 60° 90° 120° 150° 0°

A36-1

A36-1



A36-1

传声器系统法向入射时的自由场灵敏度级与特定声入射角的自由场灵敏度级之间的最大差值 (dB)

中心频率 (kHz)	声入射角 (度)					
	30	60	90	120	150	
0.05 to 1.6	0.5	0.5	1.0	1.0	1.0	
2.0	0.5	0.5	1.0	1.0	1.0	
2.5	0.5	0.5	1.0	1.5	1.5	
3.15	0.5	1.0	1.5	2.0	2.0	
4.0	0.5	1.0	2.0	2.5	2.5	
5.0	0.5	1.5	2.5	3.0	3.0	
6.3	1.0	2.0	3.0	4.0	4.0	
8.0	1.5	2.5	4.0	5.5	5.5	
10.0	2.0	3.5	5.5	6.5	7.5	

A36-1

A36.3.6

A36.3.6.1

/

A36.3.6.2 A36.3.6.9

A36.3.6.2

A36.3.9

(a)

800Hz

10kHz

800Hz

20dB

0.5	1						
0.5	-4±1dB						
1	-1.75±0.75dB						
1.5	-1±0.5dB						
2	0.5±0.5dB						
0.5	1						
	-6.5±1dB				-7.5dB		1
		2					
A36.3.7.5				" "			
		" "		" "			
	$L_s(i,k)$	$10 \log$	$0.60653 \cdot 10^{0.1L_s(i,k-1)}$		$0.39347 \cdot 10^{0.1L_s(i,k)}$		
	k	i			0.5		" "
	$L_s[i,(k-1=0)]$	0dB					
k	4						
	$L_s(i,k)$	$10 \log$	$0.13 \cdot 10^{0.1L_s(i,k-3)}$	$0.21 \cdot 10^{0.1L_s(i,k-2)}$	$0.27 \cdot 10^{0.1L_s(i,k-1)}$	$0.39 \cdot 10^{0.1L_s(i,k)}$	
	k	i					
			1.0				6 0.5
			2.5				
			0.5				" "
			0.5				
A36.3.7.6	" "						0.75
" "							
			0.5				2
		1.25					
A36.3.7.7						0.1dB	
A36.3.8							
A36.3.8.1							
				IEC 60942	1L		
A36.3.9							
A36.3.9.1							
A36.3.9.2	A36.3.9.10						
A36.3.9.2							

90					
A36.3.9.3			$\pm 30^\circ$		A36-1 0.5
A36.3.9.4				30	
			10kHz		
0.75dB					
A36.3.9.5					50Hz
10kHz			5dB		
	6				
			0.2dB		
A36.3.9.6					
	6				0.1dB
A36.3.9.7					
				6	
				0.2dB	
A36.3.9.8					
					0.5dB
	0.5dB				0.5dB
A36.3.9.9					
10					
A36.3.9.10		50Hz	10kHz		
					A36.3.9.3
				30°	
					6
					0.4dB
A36.3.10					
A36.3.10.1					
10					
			PNL		A36.4.1.3(a)
	PNL	20dB			
A36.3.10.2	10dB	(A36.4.5.1)			
	A36.3.10.1				3dB

A36.4			
A36.4.1			
A36.4.1.1		(EPNL)	EPNdB
	EPNL		
		PNL	
"	"		
A36.4.1.2			
EPNL	0.5	24	
A36.4.1.3	EPNL		
5			
(a)	A36.4.2.1(a)	24	
		PNL(k)	
(b)			
C(k)			
(c)	0.5		
PNLT(k)			
	PNLT k	PNL k	C k
			PNLTM
(d)	D		
(e)	EPNL		
	EPNL	PNLTM	D
A36.4.2			
A36.4.2.1	PNL(k)		SPL(i,k)
(a)	A36.4.7	50Hz	10kHz
	SPL(i,k)	n(i,k)	
(b)		n(i,k)	
	N k	n k	0.15 $\sum_{i=1}^{24} n_{i,k}$ n k
		0.85 n k	0.15 $\sum_{i=1}^{24} n_{i,k}$
(c)	n(k)	24 n(i,k)	N(k)
			N(k)
	PNL k	40.0	$\frac{10}{\log 2} \log N k$
	PNL(k)		PNL(k)

A36.4.3

A36.4.3.1

$C(k)$

(a) A36.3.9 80Hz

" "

$s_{3,k}$
 $s_{4,k}$ SPL $4,k$ SPL $3,k$
 g
 g
 $s_{i,k}$ SPL i,k SPL $i-1,k$
 g
 g
 $s_{24,k}$ SPL $24,k$ SPL $23,k$

(b) 5 $s(i,k)$

$|s_{i,k}| |s_{i,k} - s_{i-1,k}| 5$

(c)

(1) $s(i,k)$ $s(i-1,k)$
 SPL(i,k)

(2) $s(i,k)$ $s(i-1,k)$
 SPL($i-1,k$)

(3)

(d) SPL i,k

(1) SPL i,k SPL i,k

(2) 1 23

SPL i,k $\frac{1}{2}$ SPL $i-1,k$ SPL $i-1,k$

(3) ($i=24$)

SPL SPL $23,k$ $s_{23,k}$

(e) 25 $s_{i,k}$

$s_{3,k}$ $s_{4,k}$
 $s_{4,k}$ SPL $4,k$ SPL $3,k$
 g
 g
 $s_{i,k}$ SPL i,k SPL $i-1,k$
 g
 g
 $s_{24,k}$ SPL $24,k$ SPL $23,k$
 $s_{25,k}$ $s_{24,k}$

(f) i 3 23

$$\bar{s}_{i,k} = \frac{1}{3} s_{i,k} + s_{i-1,k} + s_{i-2,k}$$

(g) 3 24

SPL i,k

SPL $3,k$ SPL $3,k$

SPL $4,k$ SPL $3,k$ $\bar{s}_{3,k}$

g

g

SPL i,k SPL $i-1,k$ $\bar{s}_{i-1,k}$

g

g

SPL $24,k$ SPL $23,k$ $\bar{s}_{23,k}$

(h)

$F(i,k)$

$F_{i,k}$ SPL i,k SPL i,k

1.5

(i)

$F(i,k)$ A36-2

3 24

(j)

$C(k)$

$C(k)$

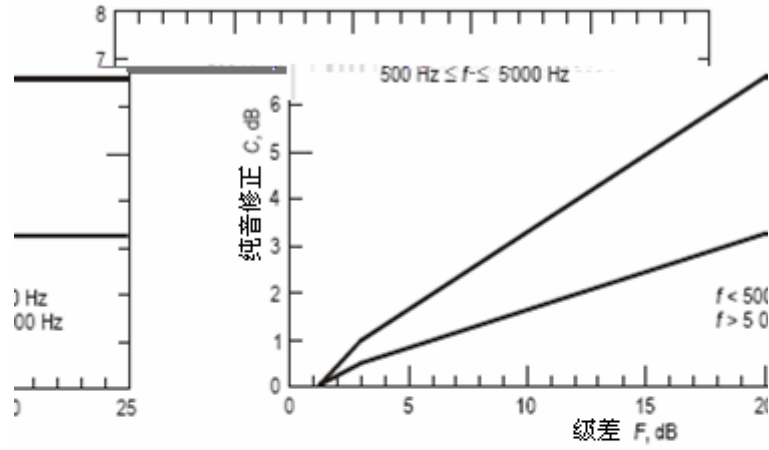
PNL(k)

PNLT k PNL k $C k$

k

i

SPL i,k



纯音修正 C , dB	频率 f , Hz	级差 F , dB
$F/3 - 1/2$ $F/6$ $3/2$	$50 \leq f < 500$	$1\frac{1}{2}^* \leq F < 3$ $3 \leq F < 20$ $20 \leq F$
$2F/3 - 1$ $F/3$ $6\frac{1}{2}$	$500 \leq f \leq 5000$	$1\frac{1}{2}^* \leq F < 3$ $3 \leq F < 20$ $20 \leq F$
$F/3 - 1/2$ $F/6$ $2\frac{1}{2}$	$5000 < f \leq 10000$	$1\frac{1}{2}^* \leq F < 3$ $3 \leq F < 20$ $20 \leq F$

A36-2

A36.4.3.2

EPNL

- (a)
- (b)

A36.4.4

A36.4.4.1

PNLTM

A36.4.3

PNLT(k)

0.5

1 A36-2

2

PNLTM

PNLM

A36.4.4.2

PNLTM

500

PNLTM

$C(k)$

PNLTM

$C(k)$

$C(k)$

PNLTM

5



A36-2

A36.4.5

A36.4.5.1

$$D = 10 \log \frac{1}{T} \int_{t(1)}^{t(2)} \text{anti log} \frac{\text{PNLT}}{10} dt \quad \text{PNLTM}$$

T PNLTM PNLT $t(1)$ PNLT PNLTM-10
 $t(2)$ PNLT PNLTM-10

A36.4.5.2

PNLT SPL

$$D = 10 \log \frac{1}{T} \int_{k=0}^{d/t} t \text{ anti log} \frac{\text{PNLT } k}{10} \quad \text{PNLTM}$$

t PNLT(k) d 0.5
 PNLT(k) PNLTM-10

A36.4.5.3

(a) Δt 0.5

(b)

A36.4.5.4

A36.4.5.2 D T Δt

$T=10$ Δt 0.5

D

$$D = 10 \log \int_{k=0}^{2d} \text{anti log} \frac{\text{PNLT } k}{10} \quad \text{PNLTM } 13$$

d PNLTM-10

A36.4.5.5

A36.4.5.2 PNLTM-10 PNLT(k)

PNLTK(k)

A36.4.6

					EPNL	EPNL
		PNLTM			D	
			EPNL	PNLTM	D	
PNLTM	D	A36.4.2	A36.4.3	A36.4.4	A36.4.5	

A36.4.7

A36.4.7.1 SPL A36-3 A36-3

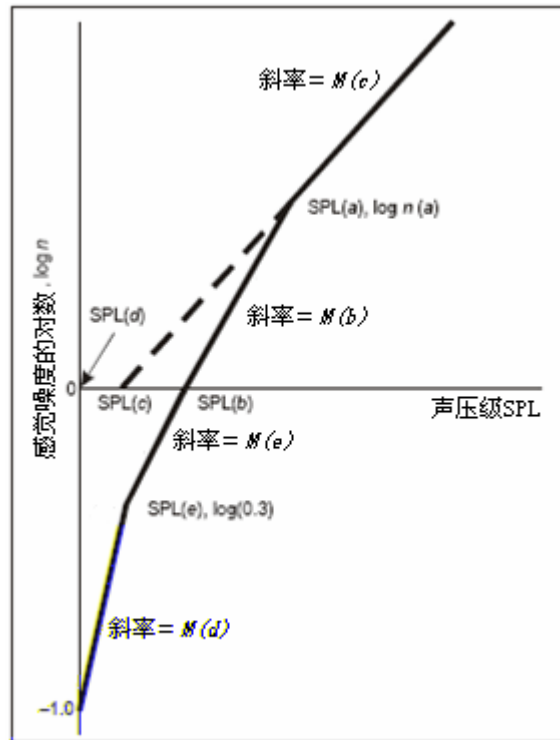
A36.4.7.2

- (a) M(b) M(c) M(d) M(e)
- (b) SPL SPL(b) SPL(c)
- (c) SPL(a) log n(a) SPL(d) log n = -1.0 SPL(e) log n = log(0.3)

A36.4.7.3

- (a) SPL SPL a
n antilog M c SPL SPL c
- (b) SPL b SPL < SPL a
n antilog M b SPL SPL b
- (c) SPL e SPL < SPL b
n 0.3antilog M e SPL SPL e
- (d) SPL d SPL < SPL e
n 0.1antilog M d SPL SPL d

A36.4.7.4 A36-3



A36-3

频带 (i)	f Hz	SPL (a)	SPL (b)	SPL (c)	SPL (d)	SPL (e)	M(b)	M(c)	M(d)	M(e)
1	50	91.0	64	52	49	55	0.043478	0.030103	0.079520	0.058098
2	63	85.9	60	51	44	51	0.040570		0.068160	"
3	80	87.3	55	40	30	45	0.036833			
134	4	100	79.0	53	47	34	42	"	0.059640	0.0471
173	5	125	79.8	51	46	30	39	0.035336	0.053013	0.0431
	6	160	76.0	48	45	27	36	0.033333		"
121	7	200	74.0	46	43	24	33	"		0.0401
149	8	250	74.9	44	42	21	30	0.032051		0.0371
159	9	315	94.6	42	41	18	27	0.030675	0.030103	0.0341
	10	400	∞	40	40	16	25	0.030103		
	11	500		40	40	16	25			
	12	630		40	40	16	25			
	13	800		40	40	16	25			
	14	1 000		40	40	16	25		0.053013	
159	15	1 250		38	38	15	23	0.030103	0.059640	0.0341
121	16	1 600		34	34	12	21	0.029960	0.053013	0.0401
149	17	2 000		32	32	9	18		"	0.0371
159	18	2 500		30	30	5	15		0.047712	0.0341
	19	3 150		29	29	4	14		"	
	20	4 000		29	29	5	14		0.053013	
159	21	5 000		30	30	6	15		"	0.0341
149	22	6 300	∞	31	31	10	17	0.029960	0.068160	0.0371
	23	8 000	44.3	37	34	17	23	0.042285	0.079520	"
159	24	10 000	∞	34	31	21	29	"	0.059640	0.0341

A36-3

A36.5

A36.5.1

A36.5.1.1

A36.5.1.2

A36.5.1.3

A36.5.2

A36.5.2.1

A36.3

A36.5.2.2

A36.5.2.3

A36.2

(a)

(b)

(c)

A36.5.2.4

A36.5.2.5

(a)

(b)

(c)

(d)

(e)

APU

(f)

(g)

/ /

(h)

(1)

(2)

(i)

(j)

A36.5.3

A36.5.3.1

B

A36.5.4

A36.5.4.1

EPNL

90%

(a)
 (b) (a)
 90%
 A36.5.4.2
 ±1.5EPNdB
 90%
 A36.5.4.3 A36.5.4.1 EPNL

A36.6

antilog		10
$C(k)$	dB	k PNL(k)
d		$t(1)$ $t(2)$ 0.5
D	dB	PNLTM
EPNL	EPNdB	PNL EPNdB dB
$EPNL_r$	EPNdB	
$f(i)$	Hz	i
$F(i,k)$	dB	dB k i
h	dB	PNLTM
H		
i		24 50 10000Hz
k		
log		10
$\log n(a)$		$\log n$ SPL $\log n$
$M(b)$ $M(c)$		$\log n$ SPL $\log n$

n		
$n(i,k)$		k i
$n(k)$		k 24 $n(i)$
$N(k)$		k 24 $n(i,k)$
$p(b)$ $p(c)$		SPL $\log n$
PNL	PNdB	PNdB dB
PNL(k)	PNdB	k 24 SPL(i,k) PNdB dB
PNLM	PNdB	PNL(k) PNdB dB
PNLT	TPNdB	PNL TPNdB dB
PNLT(k)	TPNdB	k PNL(k) TPNdB dB
PNLTM	TPNdB	PNLT(k) TPNdB dB
PNLT _{r}	TPNdB	
$s(i,k)$	dB	k i
s i,k	dB	
s i,k	dB	k i
\bar{s} i,k	dB	
SPL	dB 20 μ Pa	
SPL(a)	dB 20 μ Pa	SPL $\log n$ SPL
SPL(b) SPL(c)	dB 20 μ Pa	SPL $\log n$ SPL
SPL(i,k)	dB 20 μ Pa	k i
SPL i,k	dB 20 μ Pa	k i
SPL(i)	dB	PNLTM i

	20 μPa	
SPL(<i>i</i>) _r	dB 20 μPa	PNLTM <i>i</i>
SPL <i>i,k</i>	dB 20 μPa	<i>k</i> <i>i</i>

)i507a62 1 Tf 1 0 TD -0.0029TT4 1 Tf 8.8857 0 T0.253D 0.0023 <b31

		EPNL
Δ_3	EPNdB	EPNL

A36.7

A36.7.1

A36.7.2

A36.7.2

A36.7.2(a)

$$i = 10^{2.05 \log f_0 / 1000 - 6.33 \cdot 10^{-3} - 1.45325}$$

$$10^{\log f_0 - 4.6833 \cdot 10^{-3} - 2.4215}$$

$$\sqrt{\frac{1010}{f_0}} 10^{\log H - 1.97274664 - 2.288074 \cdot 10^{-2}}$$

$$10^{9.589 \cdot 10^{-5} - 2 - 3.0 \cdot 10^{-7} - 3}$$

$\eta(\delta)$ A36-4 f_0 A36-5
 $\alpha(i)$ dB/1000
 θ
 H

A36.7.2(b)

$$i = 10^{2.05 \log f_0 / 1000 - 1.1394 \cdot 10^{-3} - 1.916984}$$

$$10^{\log f_0 - 8.42994 \cdot 10^{-3} - 2.755624}$$

$$\sqrt{\frac{1010}{f_0}} 10^{\log H - 1.328924 - 3.179768 \cdot 10^{-2}}$$

$$10^{2.173716 \cdot 10^{-4} - 2 - 1.7496 \cdot 10^{-6} - 3}$$

$\eta(\delta)$ A36-4 f_0 A36-5
 $\alpha(i)$ dB/100
 θ
 H

A36.7.3 A36-4 A36.7.2

δ	$\eta(\delta)$	δ	$\eta(\delta)$
0.00	0.000	2.50	0.450
0.25	0.315	2.80	0.400
0.50	0.500	3.00	0.370
0.60	0.640	3.50	0.330
0.70	0.820	3.60	0.300
0.80	0.925	4.00	0.260
0.90	0.996	4.40	0.245
1.00	1.000	4.80	0.230
1.10	0.970	5.25	0.220
1.20	0.900	5.70	0.210
1.30	0.840	6.05	0.205
1.50	0.750	6.50	0.200
1.70	0.670	7.00	0.200
2.00	0.570	10.00	0.200
2.30	0.495		

必要时用二次插值

A36-4

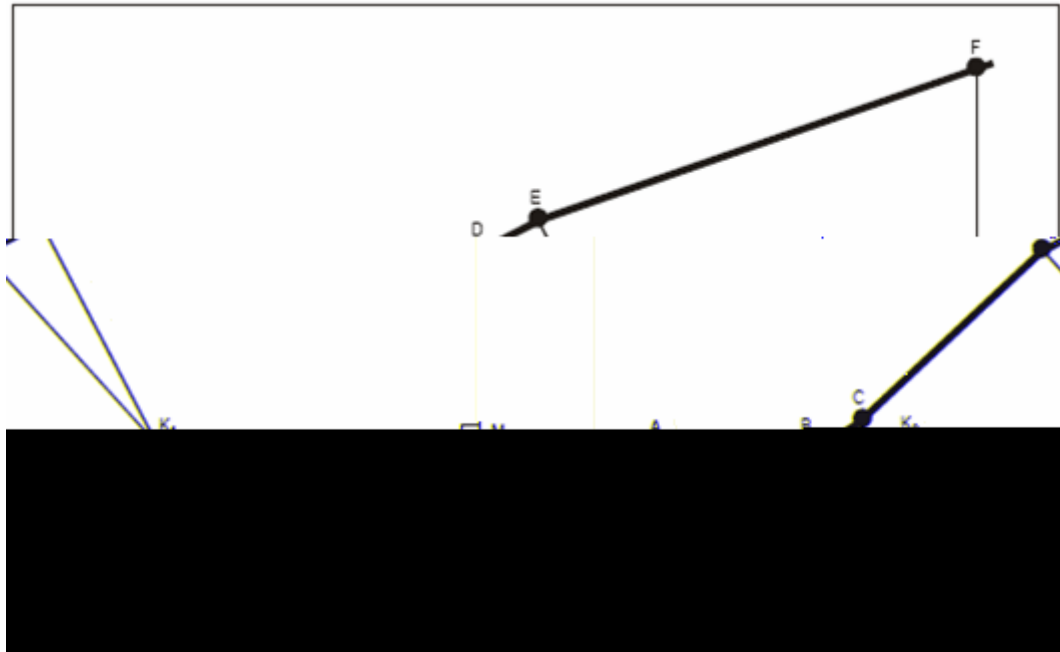
三分之一倍频程 中心频率 (Hz)	f_0 (Hz)	三分之一倍频程 中心频率 (Hz)	f_0 (Hz)
50	50	800	800
63	63	1 000	1 000
80	80	1 250	1 250
100	1 600	1 600	100
125	2 000	2 000	125
160	2 500	2 500	160
200	3 150	3 150	200
250	4 000	4 000	250
315	5 000	4 500	315
400	6 300	5 600	400
500	8 000	7 100	500
630	10 000	8 000	630

A36-4 f_0

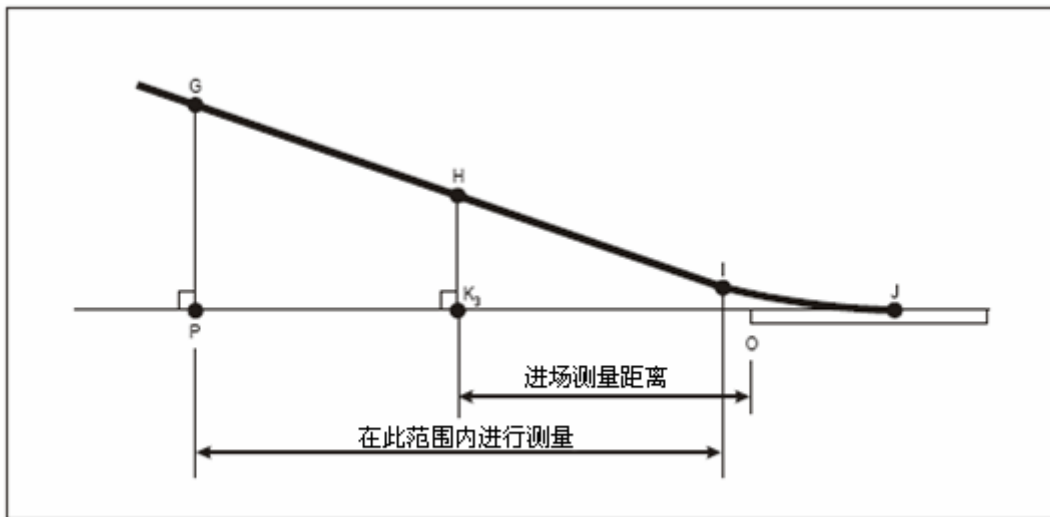
A36.8

A36.9

A36.9.1



A36-4



A36-5

A36.9.3

A36.9.3.1

PNLTM

EPNL

A36.9.3.2 PNL PNLT

(a) A36-6

EPNL

A36-6

(1) XY

EPNL

$X_r Y_r$

(2) Q

K

PNLTM

Q_r

K_r

QK

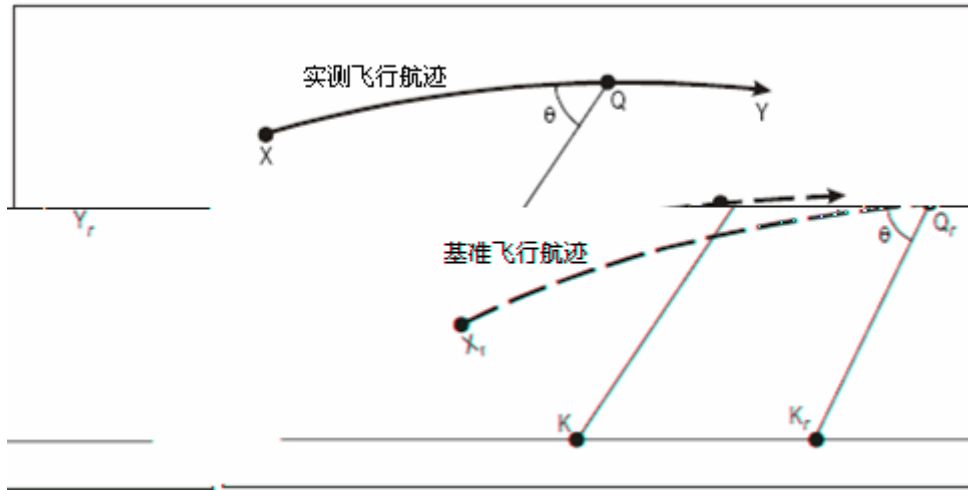
$Q_r K_r$

Q_r

QK

$Q_r K_r$

θ



A36-6

(b) A36-7(a) (b) (b)(1) (2)

EPNL

(1) A36-7(a) XY

EPNL

A36-7(b) X_rY_r

(2) Q K PNLTM

Q_r

K_r

K_r

QK

Q_rK_r

K_r

Q_r

QK

Q_rK_r

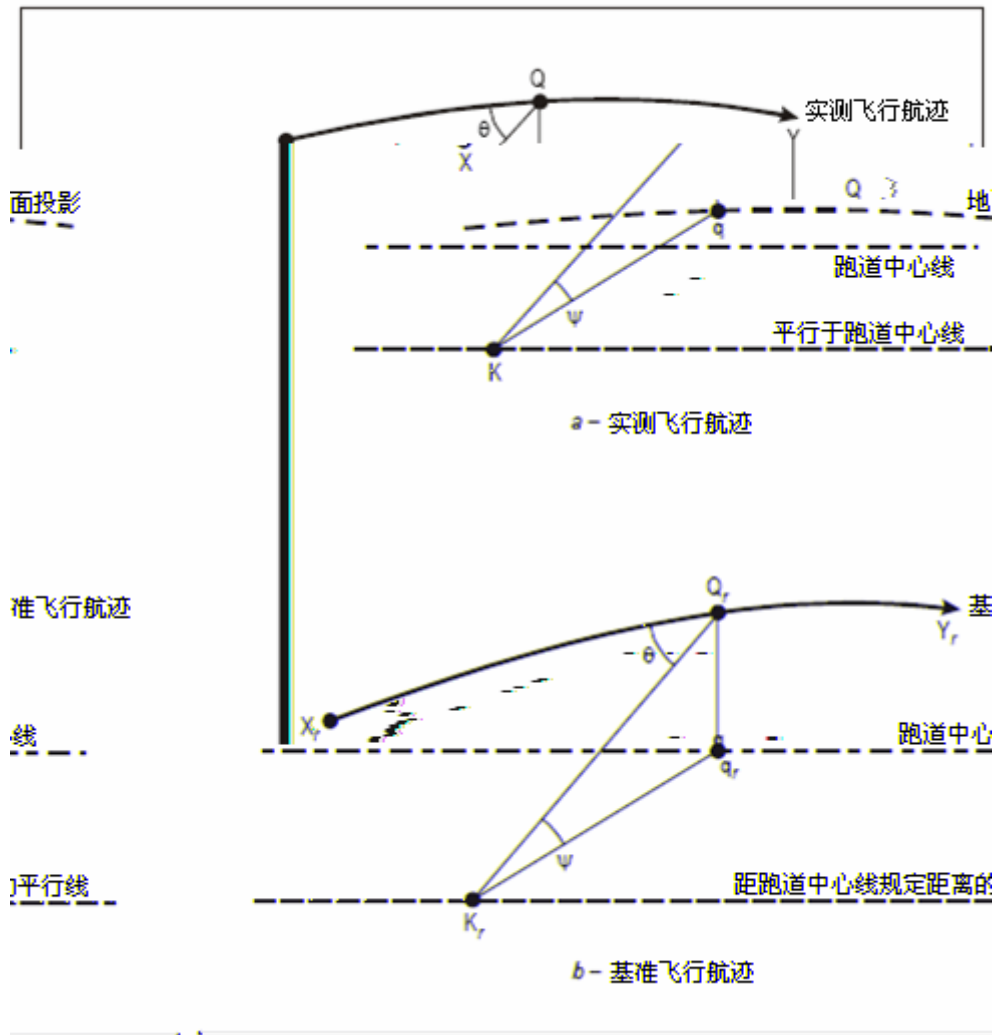
(i)

θ

(ii)

ψ

ψ



A36-7

A36.9.3.2.1 PNL PNLTM K PNL
 SPL(i) SPL(i)_r

A36.9.3.2.1(a)

$$SPL i_r \quad SPL i \quad 0.001 \quad i \quad i_0 \quad QK \quad 0.001 \quad i_0 \quad QK \quad Q_r K_r \quad 20 \log \quad QK/Q_r K_r$$

$$(1) 0.001[\alpha(i)-\alpha(i)_0]QK \quad \alpha(i) \quad \alpha(i)_0$$

A36.7

$$(2) 0.001\alpha(i)_0(QK-Q_r K_r)$$

$$(3) 20 \log(QK/Q_r K_r)$$

$$(4) QK \quad Q_r K_r \quad \alpha(i) \quad \alpha(i)_0 \quad \text{dB}/1000$$

A36.9.3.2.1(b)

$$SPL i_r \quad SPL i \quad 0.01 \quad i \quad i_0 \quad QK \quad 0.01 \quad i_0 \quad QK \quad Q_r K_r \quad 20 \log \quad QK/Q_r K_r$$

$$(1) 0.01[\alpha(i)-\alpha(i)_0]QK \quad \alpha(i) \quad \alpha(i)_0$$

A36.7

(2) $0.001\alpha(i)_0(QK-Q_rK_r)$

(3) $20\log(QK/Q_rK_r)$

(4) $QK \quad Q_rK_r \quad \alpha(i) \quad \alpha(i)_0 \quad \text{dB}/100$

A36.9.3.2.1.1 PNLT

(a) $SPL(i)_r \quad PNLT_r$

(b) Δ_1

$PNLT_r \quad PNLTM$

A36.9.3.2.1.2 Δ_1 EPNL

A36.9.3.2.2 PNLTM 2dB PNLT

A36.9.3.2.1

PNLT

PNLTM

EPNL

A36.9.3.3

A36.9.3.3.1

/

/

EPNL

A36.9.3.3.2 A36-6

$2 \quad 7.5\log QK/Q_rK_r \quad 10\log V/V_r$

Δ_2

EPNL

A36.9.3.4

A36.9.3.4.1

A36-8

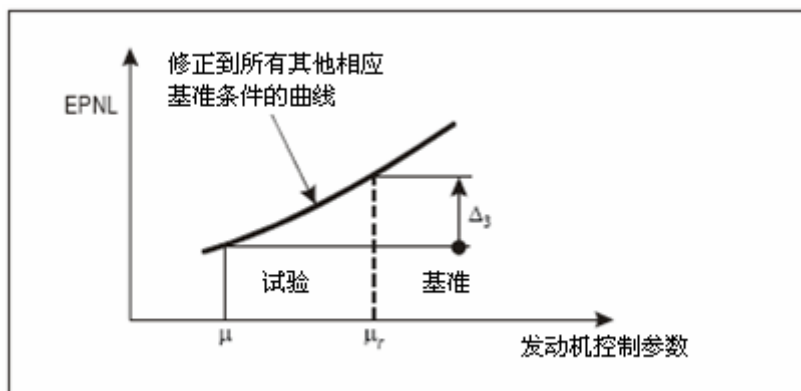
EPNL

μ

EPNL

B36.7(b)(7)

μ_r



A36-8

A36.9.3.4.2

μ_r EPNL

μ EPNL

Δ_3

EPNL

A36.9.3.5

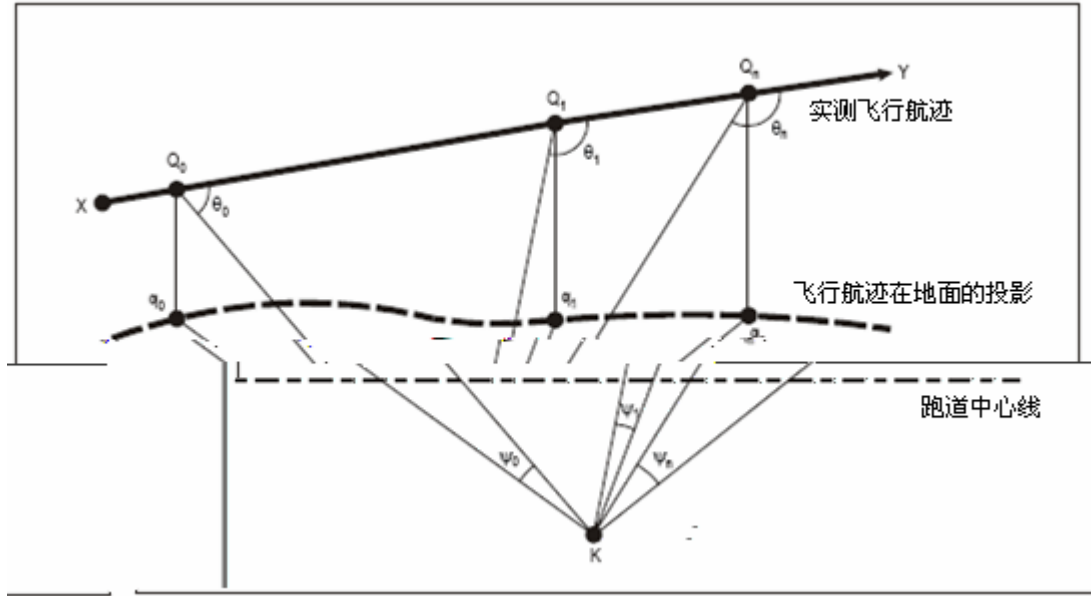
A36.9.3.5.1

B36.4(b)

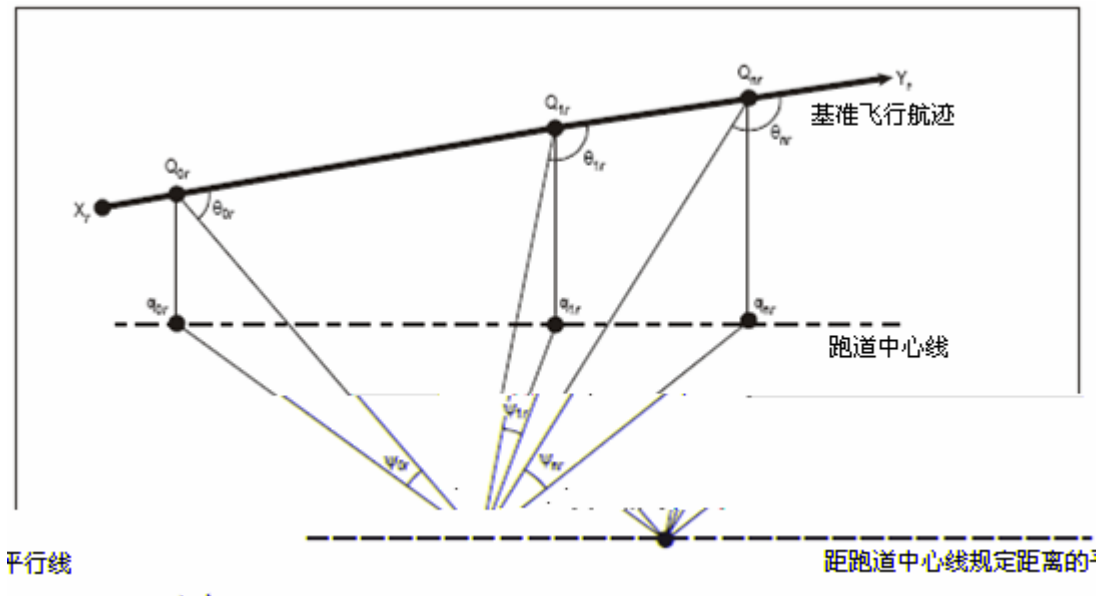
(a)

A36-9(a)

(b)



A36-11(a)



A36-11(b)

A36.9.4.2.1 A36.9.4.2(a)(2) (b)(2) t_{r1} t_1 $Q_{r1}K_r > Q_1K$
 (1) V_r $Q_{r1}Q_{r0}$ V Q_1Q_0

(2) $Q_{r1}K_r - Q_1K$
 A36.9.4.2(a)(2) (b)(2)

A36.9.4.2.2
 SPL(i)₁ A36.9.3.2.1 SPL(i)_{r1} PNL_{r1}
 A36.4.2 PNL_r t_0 t_n

A36.9.4.2.3 PNL_{r1} A36.4.3 SPL(i)_r
 C₁ PNL_{r1} PNL_{r1}
 t₀ t_n PNL_r
 A36.9.4.3
 A36.9.4.3.1 0.5 PNL_r PNL_r
 PNL_{r1} t_{r1} A36.4.5.1
 EPNL_r
 A36.9.4.4
 A36.9.4.4.1 A36.9.3.4 Δ₃

A36.9.5

A	
B	
C	
D	
E	
F	
G	
H	
I	
J	
K	
K _r	
K ₁	
K ₂	
K ₃	
M	
O	
P	
Q	K PNL _r A36.9.3.2
Q _r	K PNL _r A36.9.3.2
V	
V _r	

A36.9.6

AB		
AK		
AM		

QK		Q K
Q _r K _r		Q _r K _r
K ₃ H		
OK ₃		
OP		

[2007 4 15]

B 36.103

B36.1

B36.2

B36.3

B36.4

B36.5

B36.6

B36.7

B36.8

B36.1

(a) A

(b) 7 2 16 I 2002 3 21

B36.2

A

EPNdB

B36.3

B36.6

B36.5

(a)

(1) 1476 3 450

648 0.35

300 985

(1427) +100 -50 (+328 -164

(2) 2133 2007 4 15 650

B36.3(a)(1)

(b) 21325 6500

(c)				300	984		2000	6562
	120	394					3°	
B36.4								
(a)								
(b)								
						±10	33	
B36.5								
	B36.6					A		
(a)								36.7(c)
(b)								
(1)				272000	600000		108EPNdB	
	272000	600000			5EPNdB		34000	75000
		93EPNdB						
(2)				272000	600000		108EPNdB	
	272000	600000			2EPNdB			
	34000	75000		102EPNdB				
(c)								
(1)								
(i)						385000	850000	
	106EPNdB	385000	850000				4EPNdB	
		20247	44673		89EPNdB			
(ii)						385000	850000	
	104EPNdB	385000	850000				4EPNdB	
		28675	63177		89EPNdB			
(iii)						385000	850000	
	101EPNdB	385000	850000				4EPNdB	
		48195	106250		89EPNdB			
(2)						400000	882000	
	103EPN	400000	882000				2.56EPNdB	
		35018	77200		94EPNdB			
(3)						280000	617300	
	105EPNdB	280000	617300				2.33EPNdB	
		35018	77200		98EPNdB			
(d)								
16	I	2002	3	21	7	4	4.4	3

3.4

B36.6

36.7(c)(1) 36.7(d)(1)(ii)

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

B36.7

- (a)
 - (1) 36.3
 - (2)
 - (3) (b) (c)
 - (4)
 - (5)
 - (i) 1013.25 2116
 - (ii) 25°C 77°F 10°C
 - (iii) 70
 - (iv)
 - (v)

- (b)
 - (1) B36.7(a)(5)

- (i) 2
- (A) —214 700
- (B) —305 1000
- (ii) 2
- (A) —210 689
- (B) —260 853
- (C) —300 984

- (2) (b)(1)
- (i) 4
- (ii)
- (3) 2007 4 15 (b)(2)

- (4) V₂ 19 V₂ 10 V₂ 37 V₂ 20

(5)

APU

(6)

36.1581 (d)

(7)

N1 EPR

(c)

(1)

3°

(2)

V_{REF} 19

V_{REF} 10

V_{REF} "

"

(3)

(4)

(c)(3)

36.1581 (d)

(5)

A A36.5.2.5

B36.8

(a)

(b)

EPNL

EPNdB

A

(c)

A

A36.9

(d)

EPNL

2EPNdB

1EPNdB

EPNL

EPNL

2EPNdB

(e)

3°±0.5°

(f)

16EPNdB

8EPNdB

8EPNdB

4EPNdB

B36.5

(g)

2EPNdB

10dB

±3

10dB

±5.5

±3

[2007 4 15]

C-E

[2007 4 15]

F 1988 11 17

A

F36.1

B

F36.101

F36.103

F36.105

F36.107

F36.109

F36.111

C

F36.201

F36.203

D

F36.301

A 部分 总则

F36.1

36.1 36.501 (b)

B 部分 噪声测量

F36.101

(a)

75°

(b)

(1)

(2) 90% 30%

(3) 10 (33) 5°C(41°F) 30°C 86°F

1.83 (1)

(4) 10 (33)

19 / 10 /

7 / 4 /

±15°

1.83 1

(5)

(6)

(7)

F36.103

F36.103

(a)

F36.105

(b)

(c)

F36.105

(d)

(rms)

F36.105

- (a)
- (b) (IEC) 179 "
- " 36.6
- (c) 45 11200
IEC 179 (1973)
- (d) 800 11200
20dB
- (e) IEC 179 (1973)
" " " A"
1 800
- (f)
- (g) 11 / 6 /

F36.107

- (a) 1.2 (4)
- (b)
- (c)
- 10dB(A)

F36.109

- (a)

(5)

(6)

(g)

F36.111

(a)

300 ¹⁰/₃₀ 985 ³⁰/₁₀₀₀ ±10°

(b)

(1)

(2)

C 部分 数据修正

F36.201

(a) 20°±5°C 68±9°F 40

25°C 77°F 70

(b) (c)

5dB(A)

(c)

$$\Delta dB = 49.6 - 201 \log_{10} \left\{ (3500 - D_{15}) \frac{R/c}{V_y} 15 \right\}$$

D₁₅— 15 50 ()

R/C— (/)

V_y—

(d) 15 50

610 2000 825 2700

F36.203

(a) (A) 90

(b) ±1.5dB(A) 90

D

F36.301

(a)		B	C			
(b)		600	1320		68dB(A)	600
	1320		1500	3300	1dB/75	1dB/165
		1500	3300		80dB(A)	
	80dB(A)					

G 1988 11 17

A

G36.1

B

G36.101

G36.103

G36.105

G36.107

G36.109

G36.111

C

G36.201

G36.203

D

G36.301

A 部分 总则

G36.1

36.1 36.501 (c)

B 部分 噪声测量

G36.101

(a)

75°

(b)

(1)

(2)

2.2°C 35°C 36°F 95°F

(3)

20 95 ()

(4)

19 / 10 9 / 5 30

(5)

(6)

1.83 1.2 4 10 33
(1)

(c)

(d)

G36.103

G36.103

(a)

G36.105

(b)

(c)

G36.105

(d)

(rms)

G36.105

(a)

(b) (IEC) 651 " " " 36.6
 561 "

IEC 651 I

(c) 45 11200

IEC 651

(d)

800 11200

20dB

(e) IEC 651 " " " A"

(f)

A

A36.3.8 A36.3.9

(g) 9 / (5)

G36.107

(a) 12.7

7

40 2.5

3/4

(b)

10dB

(c)

10dB(A)

G36.109

(a)

(b) G36.105

(c)

(d) G36.101

(1)

(2)

(e)

(f)

(g)

(1) ()

(2)

(3)

(4)

(5) (rpm)

± 1

(6) G36.201

G36.111

(a) 2500 (8200)

$\pm 10^\circ$ ± 20

$V_y \pm 9$ / 5

(b)

(1) 1013.25 (1013.25)

(2) 15°C 59°F

(3) 70

(4)

(c)

(1)

(i) 15 50

(ii)

(iii)

(iv) ()

)

(2)

(i)

(ii) ()

(iii) V_y

(iv)

C 部分 数据修正

G36.201

(a)

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

(b)

G1

15°C 59°F 70

(c)

- (1) 0.70 0.014
- (2) 0.70 0.80
- 0.007
- (3) 0.80 0.005
- 0.80
- 0.008

(d)

(1)

$$\Delta(M) = (H_T \alpha - 0.7 H_R) / 304.8$$

H_T

H_R

α

500

(SAE)

ARP866A

"

36.6

"

(2)

$\Delta(1)$

G1

$$\Delta(1) = 221 \log(H_T/H_R)$$

H_T

H_R

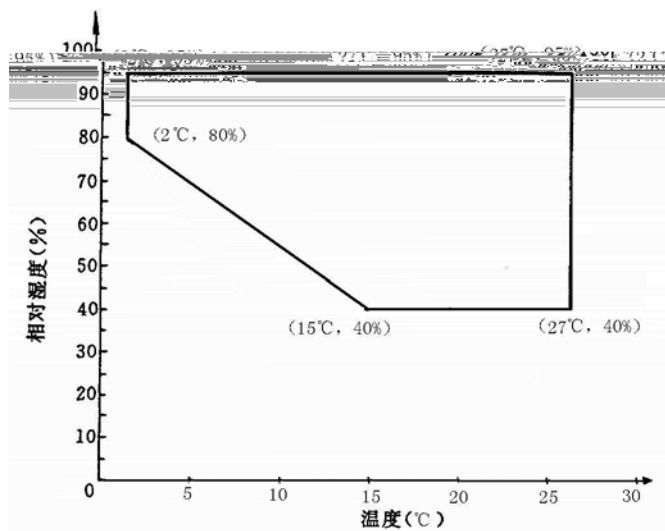
G1

$$\Delta(1) = 201 \log(H_T/H_R)$$

(3)

$\Delta(2)$

$$\Delta(2) = k \log(M_R/M_T)$$



G1

$$M_T M_R k \text{ dB(A)}$$

$$150 M_T M_R k M_T M_R K M_R$$

$$(4) \quad (\quad)$$

$$\Delta(3) \quad 171 \log(P_R/P_T)$$

$$P_T \quad P_R$$

G36.203

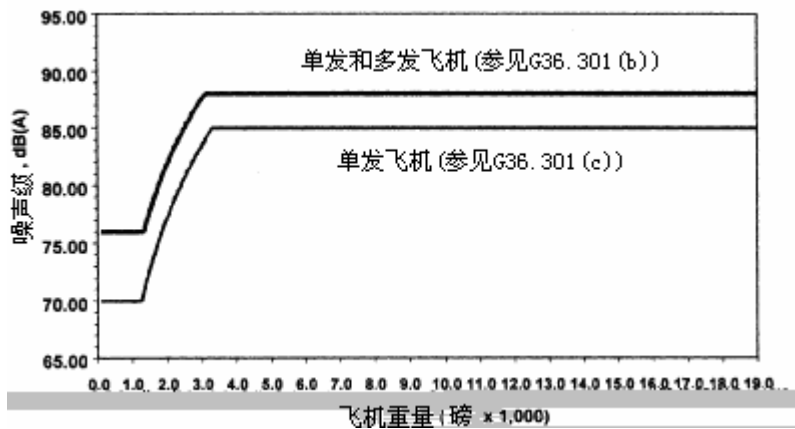
- (a) $6 \quad (L_{Amax}) \quad 90$
- (b) $\pm 1.5 \text{ dB(A)} \quad 90$

D 部分 噪声限制

G36.301

- (a) $B \quad C$
- (b) $2007 \quad 4 \quad 15$
 $600 \quad (1320) \quad 76 \text{ dB(A)} \quad 600 \quad (1320)$
 $) \quad 9.83 \text{ dB(A)}$
 $88 \text{ dB(A)} \quad 8618 \quad (19000) \quad G2$
- (c) $2007 \quad 4 \quad 15$

(1257) 570 (1257) 70dB(A) 570
 85dB(A) 8618 (19000) G2 10.75dB(A)



G2
 [2007 4 15]

H H H

H36.107

H36.109

H36.111

H36.113

C 36.803

H36.201 EPNdB

H36.203

H36.205

D 36.805

H36.301

H36.303

H36.305

A

H36.1

36.1

(a) H
36.801

(b) 36.803
(EPNL)

(c) 36.805

H36.3

(a)

- (1) 1,013.25 (2116)
- (2) 25°C(77°F)
- (3) 70
- (4)

(b) 10dB

(c)

- (1) H1
 - (2) (20 65)
- 500 1640) β β β (β Cr A)
- V_y β (Ir)

(d) D_r (H2)

- D_r A 150 492 $0.9V_H$
- $0.9V_{NE}$ $0.45V_H$ 120 / $0.45V_H$ 65 $0.45V_{NE}$ 120 $0.45V_{NE}$ 65
- 10dB RPM

A J_r 1,013.25

(e) V_H 1,013.25

(2116) 25°C 77 V_{NE}

V_H V_{NE}

(f)

- (1) H3
- (i) E (EK) (PNLTM)10dB rpm 6°
- $E_r K_r$ β AH A K K
- β 5.5° 6.5°
- (2) H 6° 10dB
- E K

H36.5

A	()

C	
Cr	
D	
Dr	
E	
Er	
F	A
Fr	A
G	A
Gr	A
H	A
Hr	A
I	
Ir	
J	
Jr	
K	
Kr	
L	A PNLTM
Lr	A PNLTM
M	A PNLTM
Mr	A PNLTM
N	A PNLTM
Nr	A PNLTM
S	

AF		A
AG		A
AH		A

AL			L	A
ALr			Lr	A
AM			M	A
AMr			Mr	A
AN			N	A
ANr			Nr	A
CI				C A
			I	
DJ		D		A
		J		
EK		E		A
		K		

B 36.801

H36.101

(a)

(b)

(1)

(2)

150 492 6
20

(3)

(4)

(5)

PNLTM10dB

() ()

80°

(i)

(ii)

(6)

(i)

(ii)

+5% -10%

(7)

6°±0.5°

H36.107

(8)

	(i)							
	(ii)			90%		105		
	(c)							
	(1)							
	(2)			10		33		
		-10°C~35°C	14°F~95°F	()			10	33
	(3)			10				
				8			12dB/100	
		20%~95%	()					
	(4)		10		19	/	10	
		9	/	5	10dB			30
	(5)			()				
	(6)							10
						(
)							
	(7)					30		
	(d)							
	(1)						A	
EPNdB	(2)			(
	(3)							
					PNLTM	10dB		
	(4)						H36.205	
H36.103								
(a)		H36.101		H36.205	(b)			
		36						
(b)						(
)								
(1)		V _y ±9	/	5		±9	/	5
		10dB						
(2)							20	65
(3)				500	1640			
(4)		10dB					25°C	

± 9 / 5 25°C

(5) 10dB
 ± 1.0
(6) 10dB $\pm 10^\circ$ ± 20 65
(7)
 V_y

H36.105

(a) H36.101 H36.205 (c)
36
(b)
(1)
(2) 150 ± 9 492 ± 30
(3) 10dB $\pm 10^\circ$ ± 20 65
(c)
(1) $0.9V_H$ $0.9V_{NE}$ $0.45V_H$ 120
 $0.45V_H$ 65 $0.45V_{NE}$ 120 $0.45V_{NE}$ 65 ,
(2) 10dB
 ± 1.0
(3) PNLTM 10dB
(d) ± 9 / 5

H36.107

(a) H36.101 H36.205 (d)
36
(b) ()
(1) $6^\circ \pm 0.5^\circ$
(2) 120 ± 10 394 ± 33
(3) 10dB $\pm 10^\circ$ ± 20 65
(4) V_y
(5) 10dB
 ± 1.0
(6)
(c) ± 9 / ± 5

H36.109

A A36.3

H36.111

(a)

(b)

(1) H36.109

(2)

(3)

(4)

(5)

(i)

(ii)

(iii)

(iv)

(v) (/)

(vi)

(vii) ()

(6)

H36.3

(c)

(1)

H36.3

H36.205

(2)

$-7.5\text{Log}(AL / ALr)$ 4.0EPNdB, $\Delta_1($ EPNL H36.205(f)(1)) $\Delta_2($ 2.0EPNdB H36.205(g)(1)(i))

(i)

(ii)

(iii) H36.205

(iv)

H36.205

(3) 10dB

A36.3.10.1

3dB

(d)

(1)

90%

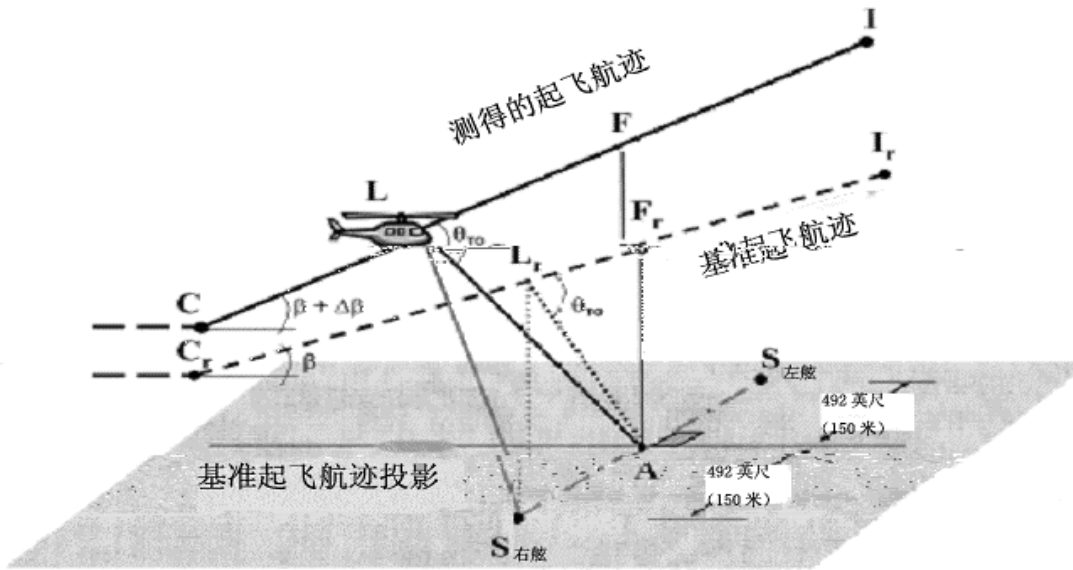
EPNL

H36.203

- (a) H36.305
EPNL
- (b) EPNdB H36.111 (d) 6
EPNdB 90%

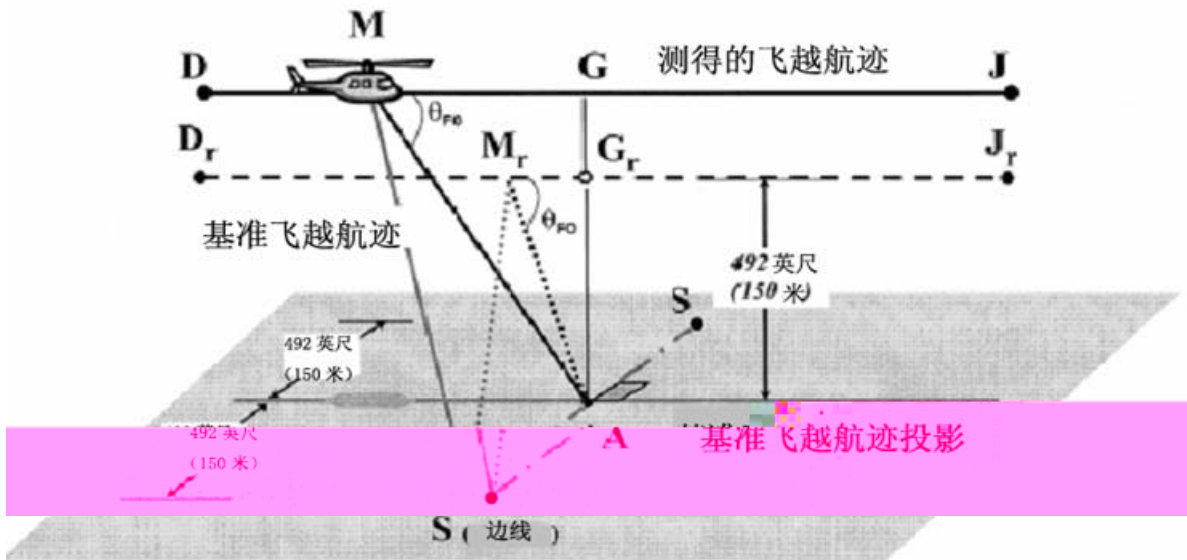
H36.205

- (a) H36.305
 - (1) EPNL
 - (i)
 - (ii)
 - (2) EPNL
 - (i) PNLTM
 - (ii) PNLTM PNLTM SPL
 - (A)
 - (B)
 - (C) SPL
 - (iii) PNLTM PNLTM PNLTM PNLTM EPNL
 - (iv) PNLTM
- (b)
 - (1) H1
 - (i) H36.3 (c)
 - (ii)
 - (2) 20 65 $V_y \pm 9$ / ± 5
C



H1

- (3) H1 L A PNLTM
 L_r AL AL_r
- (c)
 (1) H2 H36.3 (d)
 ±9 / ±5



H2

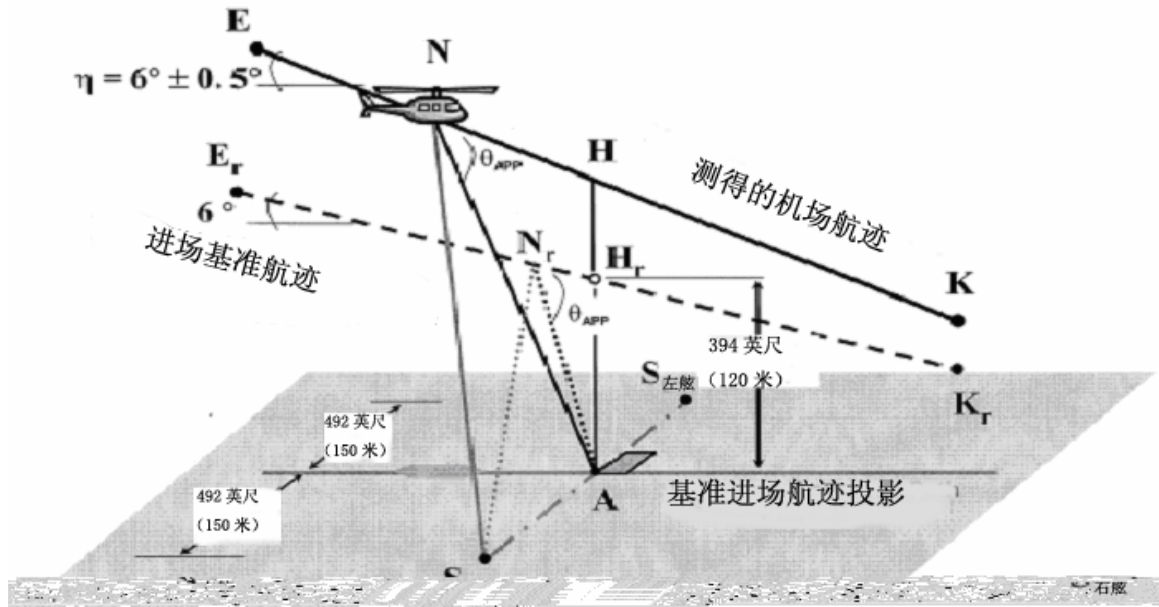
- (2) H2 DJ PNLTM 10dB
 AG AG

(d) 进场剖面

(1) H3

(2) 10dB 6°(±0.5°) H

6°



H3

(3) H3

(f) PNLT
(25°C (77°F) 70%)

(1) H1 A L PNLTM

SPL(i)

(i) 1

$$SPL(i)_r = SPL(i) + C[\alpha(i) - \alpha(i)_o]AL + C\alpha(i)_o (AL - AL_r) + 20 \log (AL/AL_r)$$

SPL(i) SPL(i)r

$\alpha(i)$ $\alpha(i)_o$ i

AL 0.001 0.01 C i

ALr

(ii) 2 SPL(i)r PNLT

$\Delta_1 = PNLT - PNLTM$

EPNL

(2)

(i) (f)(1)

H2 SPL(i)r

$$SPL(i)_r = SPL(i) + C[\alpha(i) - \alpha(i)_o]AM + C\alpha(i)_o (AM - AM_r) + 20 \log (AM/AM_r)$$

AM AM_r

(ii) (f)(1)(ii)

(3)

(i) (f)(1)

H3 SPL(i)r

$$SPL(i)_r = SPL(i) + C[\alpha(i) - \alpha(i)_o]AN + C\alpha(i)_o (AN - AN_r) + 20 \log (AN/AN_r)$$

AN AN_r

(ii) (f)(1)(ii)

(4)

(i) (f)(1)

SPL(i)r H3

$$SPL(i)_r = SPL(i) + C[\alpha(i) - \alpha(i)_o]SX + C\alpha(i)_o (SX - SX_r) + 20 \log (SX/SX_r)$$

S X X_r

X=L X_r=L_r

X=M X_r=M_r

X=N X_r=N_r

(ii) (f)(1)(ii)

(g)

(1)

(i) H1
 $\Delta 2 = -7.5 \log (AL/AL_r) + 10 \log (V/ V_r)$

A

EPNL

AL

AL_r

EPNL

(ii)
 $\Delta 2 = -7.5 \log (AM/AM_r) + 10 \log (V/ V_r)$

AM

A

AM_r

A

(iii) H3

$\Delta 2 = -7.5 \log (AN/AN_r) + 10 \log (V/ V_r)$

AN

A

AN_r

A

(iv)

$\Delta 2 = -7.5 \log (SX/SX_r) + 10 \log (V/ V_r)$

S

X

X_r

X = L

X_r = L_r

X = M

X_r = M_r

X = N

X_r = N_r

(2)

ψ

θ

ψ

D

36.805

‡

(ii)				
2EPNdB				
2EPNdB				
(2)				
(i)		80000	176370	109EPNdB
	3.01EPNdB	89EPNdB		
(ii)		80000	176370	108EPNdB
	3.01EPNdB	88EPNdB		
(iii)		80000	176370	110EPNdB
	3.01EPNdB	90EPNdB		
(b)		H36.11	(b)	
H36.203				(a)

- (1) 4EPNdB
 - (2) 3EPNdB
 - (3)
- [2007 4 15]

I []

J

3175 (7,000)

H

A

J36.1

J36.3

J36.5 []

B **36.801**

J36.101

J36.103 []

J36.105

J36.107 []

J36.109

J36.111

J36.113 []

C **36.803**

J36.201 **SELdB**

J36.203

J36.205

D **36.805**

J36.301

J36.303 []

J36.305

A

J36.1

36.1 H 3175
7,000
(a) H
36.801
(b) 36.803
(SEL)
(c) 36.805

J36.3

(a)
(1) 76 2116
(2) 25°C 77°F
(3) 70
(4)
(b) A 10dB
(c) 150 492
 $0.9V_{NE}$ $0.45V_{H+120}$ / $0.45V_{H+65}$ $0.45V_{NE+120}$ / $0.45V_{NE+65}$
10dB
RPM
(1) V_H
1,013.25 (2,116) V_H) 25°C
 V_H V_{NE}
(2) V_{NE}
(d)

J36.5 []

B 36.801

J36.101

(a) 总则

(b)

(1)

(2) A 10dB

()

80°

(c)

(1)

(2) 2 °C 35°C 36°F 95°F () 20 95 ()

8kHz

10dB/100 (30.5dB/1000)

(3) 19 / (10) 9 / (5)

30

(4)

1.2 4 10 33

(5)

(6)

2000 6560

(d)

(1)

J36.109 (b)

(SEL)

(2)

J36.205

(3)

J36.3

J36.103 []

J36.105

(a)

(b)

(1)

(2) 150±15 492 ±50

(3) $\pm 10^\circ$
(c)
(1) J36.3 (c)
(i) 25°C 77°F MAT (V_R) (V_T)
c (1135.6)

$$L_{AE} = L_{AMAX} + \Delta A$$

ΔA

$$\Delta A = 10 \log_{10}(T)$$

T (t₂-t₁)/2 L_{AMAX} (P₀) A ()
dB

(c)

(1) (d)

(2)

(3) (d)

(4) A36.3.9

(d)

(1) A

“ ” SEL

(i) SEL

1 804 " " 36.6
" "

(ii) (e) (f)

() (d)(1)(i) /
A36.3.6 IEC 561

" " 36.6
(iii) IEC 651 " "

(iv) 45 11500 A
IEC 651 " " 1 IV V
36.6

(v)

(e)

(e)

(1) A A36.3.6

(2)

(i)

()

(ii) 0.5dB

SEL

(iii)

(f)

(1)

1.2 4



(2) 10dB

(3) 15dB(A)

(4) A () SEL A (L_{AMAX}) 10dB
SEL ()
dB(A) (L_{AMAX})
J36.111 (b)

J36.111

- (a)
- (b)
- (1) J36.109
- (2)
- (3)
- (4)
- (5)
 - (i)
 - (ii)
 - (iii)
 - (iv)
 - (v)
 - (vi) V_H V_{NE} ()
 - (vii)
 - (viii)
 - (ix)
 - (x)
 - (xi) ()
-)
- (6) J36.205
J36.105

J36.113 []

C

36.803

J36.201

SELdB

J36.109 (b) dB(A) (SEL)
SEL
J36.109

J36.203

(a) J36.305 SEL
J36.205 SELdB(A)

(b) 6
1.5dB(A) 90%
(c) 90%
J36.111

J36.205

(a) B J36.3
(b)(c)

(b)
 $\Delta J_1 = 12.5 \log_{10}(H_T/150) \text{dB}$
 ΔJ_1 dB SEL
 H_T 12.5

(c)
 $\Delta J_3 = 10 \log_{10}(V_{RA}/V_R) \text{dB}$
 ΔJ_3 dB SEL
 V_R J36.3 (c)

V_{RA} J36.105 (c)
(d) J36.105 (c)

(e)

(f)

(g) J36.105 SEL
2.0dB(A)

(h) J36.111

D

36.805

J36.301

B C

D

J36.303 []

J36.305

J36.101

()
(a)

3175 7000

788 1737 82dB(SEL) 3.0dB

$$L_{AE}(\text{limit})=82+3.0[\log_{10}(\text{MTOW}/788)/\log_{10}(2)]\text{dB}$$

MTOW

(b) IEC 804 "

" 1985

[2007 4 15]

20

Y12E Y8F-600 ARJ21-700

(CCAR-36) 2002 3

1 22

FAA
(CCAR-36)

FAR36

ICAO
27

ICAO

7

FAA

16 I 3

FAR36

ICAO

16 4 7

FAR36 23 28

(CCAR-36)

(一)

(二)

" [2007 4 15]"

(三)

“ ”

(四)

“ ”

16 I

FAR36 6

Amdt.36-23

2002.03.01

Amdt.36-24

2002.08.07

Amdt.36-25	2004.07.02
Amdt.36-26	2005.08.04
Amdt.36-27	2005.09.06
Amdt.36-28	2006.02.03

CCAR-36

A

				FAR	
36.1					
(a)(1)		√		36-24	
(f)(1)		√		36-24	
(f) (9)	√			36-26	
(f) (10)	√			36-26	
(f) (11)	√			36-26	
(h) (5)	√			36-25	
36.2	√			36-24	
36.6				36-26	
(c) (1) (vi)	√				
(x)	√				
(c)(3)					
36.7				36-26	
(e)(4)	√				
(f)	√				
36.11		√		36-25	

B

				FAR	
36.101		√		36.101 36-24	

000000

				FAR	
36.801		√		36-25	

O

				FAR	
36.1581		√		36-24	
(a) (2)		√		36-25	
(a) (3)					

				FAR	
A		√		36-24 36-26	A B
B		√		36-24 36-26	C
C		√		36-26	C
G		√		36-27 36-28	
H		√		36-25	
J		√		36-25	