

:BXGFHB-001

:(2012)

1	.....	1
1.1	.....	1
1.2	.....	1
1.3	.....	1
1.3.1	.....	1
1.3.2	.....	1
1.4	.....	2
1.5	.....	3
2	.....	4
2.1	.....	4
2.2	.....	5
2.2.1	.....	5
2.2.2	.....	5
2.2.3	.....	8
2.2.4	.....	8
2.2.5“ ”	.....	11
2.3	.....	13
2.3.1	.....	13
2.3.2	.....	13
2.3.3	.....	13
2.3.4	.....	14
3	.....	17
3.1	.....	17
3.2	.....	17
3.3	.....	18
3.4	.....	18
3.5	.....	18
3.6	.....	19
3.7 /	.....	19
4	.....	21
4.1	.....	21
4.2	.....	21
5	.....	23
5.1	.....	23
5.2	.....	23
5.2.1	.....	23
5.2.2	.....	24
5.3	.....	24
5.3.1 24	.....	24
5.3.2 24	.....	24
5.3.3	.....	25
6	.....	26
6.1	.....	26

6.2	.....	26
6.3	.....	26
6.4	.....	26
7	.....	27
7.1	.....	27
7.2	.....	28
7.2.1	.....	28
7.2.2	.....	29
7.2.3	.....	32
7.2.4	.....	32
7.2.5	.....	33
7.3	.....	33
7.4	.....	34
7.4.1	.....	34
7.4.2	.....	34
7.5	.....	34
8	.....	35
8.1	.....	35
8.2	.....	35
9	.....	36
9.1	.....	36
9.2	.....	36
9.2.1	.....	36
9.2.2	.....	37
9.2.3	.....	37
9.2.4	.....	37
10	.....	38
11	.....	39
11.1	.....	39
11.2	.....	39
11.3	.....	39
11.4	.....	39
12	.....	40
12.1	.....	40
12.2	.....	40
13	.....	41
14	.....	42

1

1.1

1.2

1		22	1989.12.26
2		87	2008.2.28
	2008.6.1		
3			32
2000.4.29	2000.9.1		
4			77
1996.10.29	1997.3.1		
5			31
2004.12.29	2005.4.1		
6			69
2007.8.30	2007.11.1		
7	(		2003 1)
8			[2010]113
9			
	2004 43		
10			
	2009-04-21		
11		(GB18218-2009)	

1.3

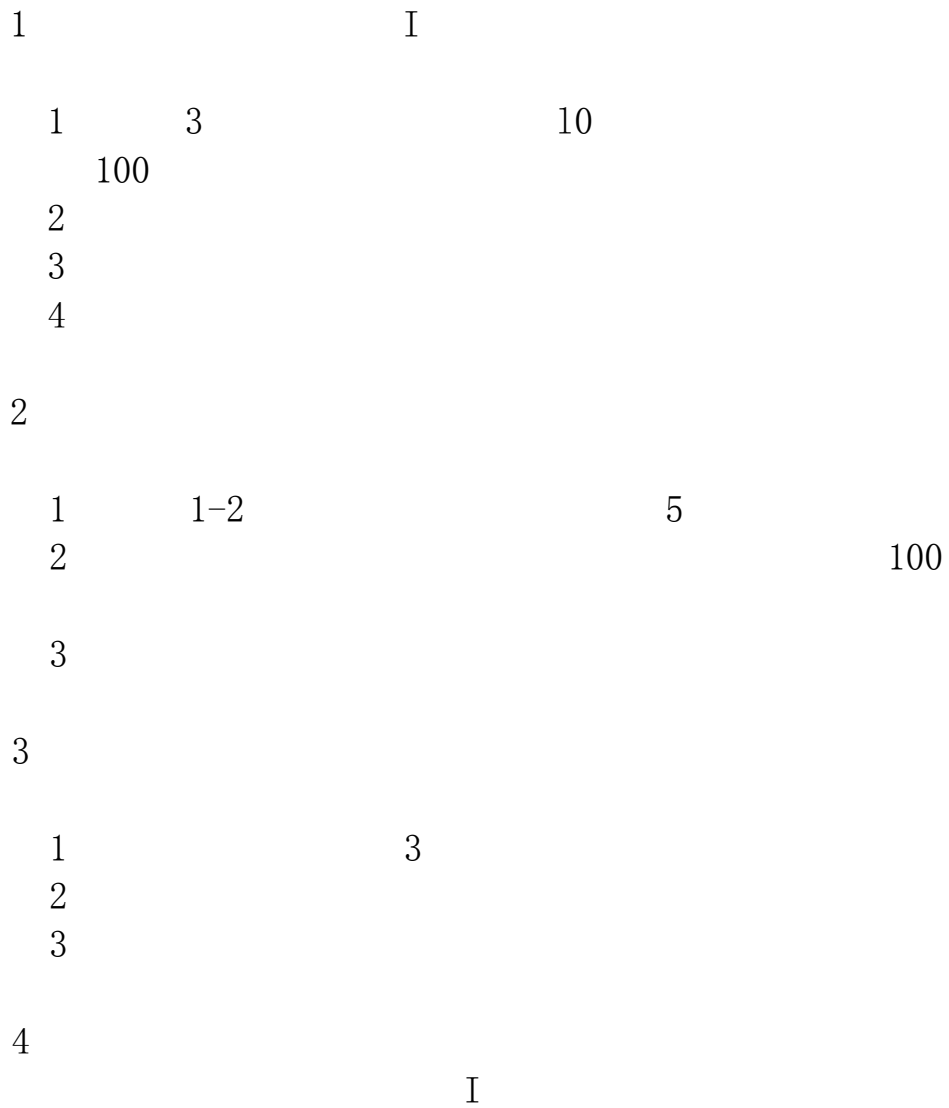
1.3.1

1.3.2

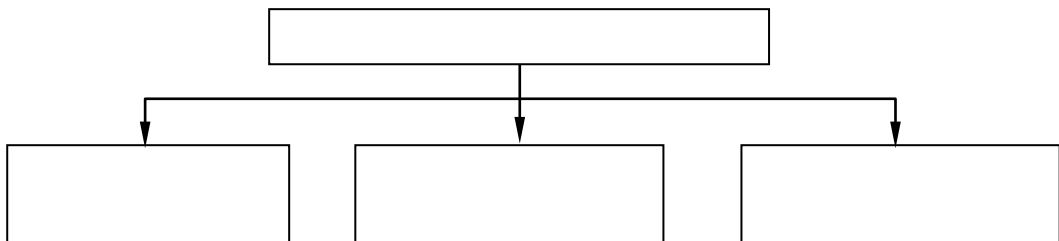
(1)

(2)

(3)



1.4



1.5

”

“

2
2.1

1970 12 50

10000 / 5000 / 25000 /

24 8 300
2-1

2-1

			213111
	0519-88932223		1300
			50
	3		D324
			120° 05
			31° 47
	18961196086		

3 6m

150

270kPa

7

ESE

14%

18.4

1074.0mm

1515.9mm

82%

2.6m/s

24m/s

2.2

2.2.1

2-2

2-2

		/
1		25000
2		10000
3		5000

2.2.2

2-3

2-3-1

			/
1		LD5-22. 5A5D	2
2		EJ016	1
3		/	6
4		LD5-19. 5A5D	7
5		QD5-19. 5A5D	5
6		LG60-H	6
7		/	2
8		FHC-315SA	1
9		STPG600	1
10		DK7732	4
11		C41-150	1
12		16. 2M	1
13		39. 6M	1
14		20M	1
15		/	2
16		CHT4106	1
17		133- 610	1

2-3-2

			/
1		MH5-7. 23A3D	2
2		/	2
3		SJY0. 5-11	3
4		/	7
5		/	5
6		LD5-19. 5A5D	33
7		QD5-19. 5A5D	7
8		/	6

2-3-2

			/
9		/	4
10		/	3
11		MC-275	2
12		STPG600	2
13		C41-150	4
14		/	2
15		LB100	1
16		/	10
17		14.5*1.5*1.2m3	1
18		219	1
19		/	1
20		/	2
21		ZZJ-01	3
22	/	ZX5-400-2	1
23		/	3
24		ZX5630B	2
25		WS-200	1
26		G160-D	1
27		/	8
28		/	2
29		CUA-120	1
30		/	1
31		/	1
32		/	1
33		/	1
34		/	1
35		CZ61100	1
36		C630	1
37		/	2
38		GB4240	7
39		C41-250	2
40		W56-160	3
41		/	5
42		195	2
43		MC-275	2
44		Y32-315	1
45		/	1
46		/	1
47			1
48		/	1

2-3-2

			/
49		/	1
50		/	2
51		DSB-25	1
52		/	6
53		/	2
54		/	2
55	/	/	6
56		ZX5630B	1
57		PC/00	1
58		ZZJ-01	9
59		LG60-H	9
60		BODA-4000-I-0	1
61		PC 200-D	1
62		B81070A	2
63		2000T	
64		YU32-500	4
65		STPG-600	2
66		JCB-22	1
67		ZS7550C	1
68		/	1
69		/	3
70		/	1
71		/	1
72		/	1
73		/	1

2-3-3

			/
1		/	4
2		/	4
3		/	3
4		/	4
5		CW6163D	5
6		/	2
7		ZX6350A	1
8		/	3
9		/	1
10		LD5-19. 5A5D	10
11		QD5-19. 5A5D	2

2-3-4

			/
1		CAK4058	2
2		CA6140A	8
3		Z5150	3
4		GX4250X	5
5		PK-400	3
6		RT3-160-11	2

2-3-5

			/
1		CA6163A	12
2		B6050B	3
3		Z535	1
4		M131	2
5		X5030	1
6		LD3-10. 97A3D	21
7	40	40	1
8		/	2
9		LG30-H	17
10		LGE30	10
11		NGL-135-11Q	2

2.2.3

2-4

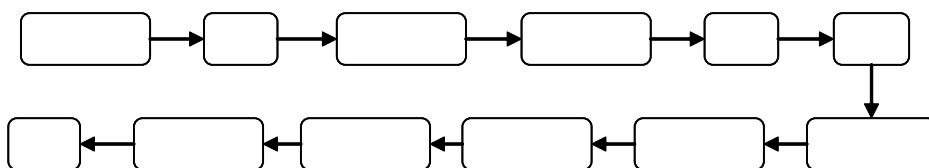
2-4

		(t/a)				(t)	
1		34000		—		2000	
2		10000		—		1000	
3	40%	800		10t/		30	
4	98%	1000		10t/		50	
5	3	100		—		10	

2.2.4

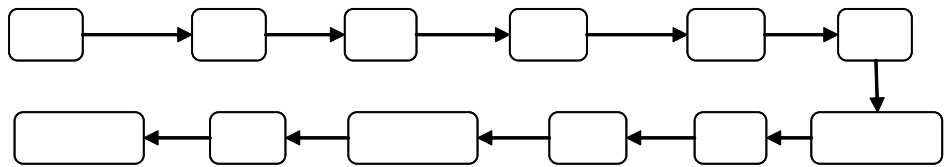
1

1



2

2
1



2

50-60
15% HNO_3 8% HF 77%

30

⋮
⋮

⋮

3

⋮

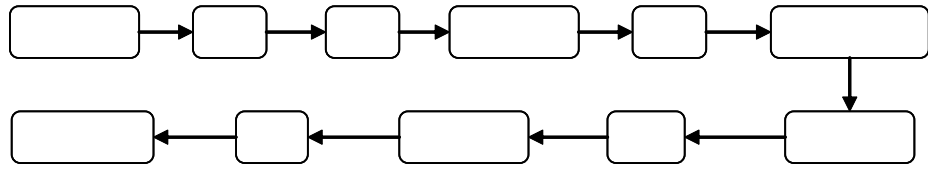
⋮

600-700

:

3

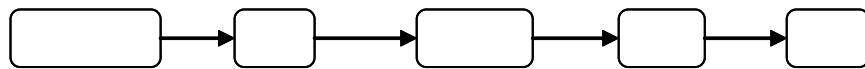
1



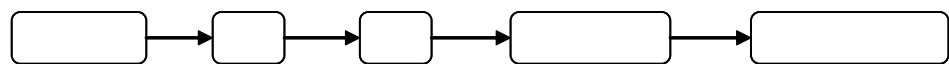
2

8mm
8mm

4



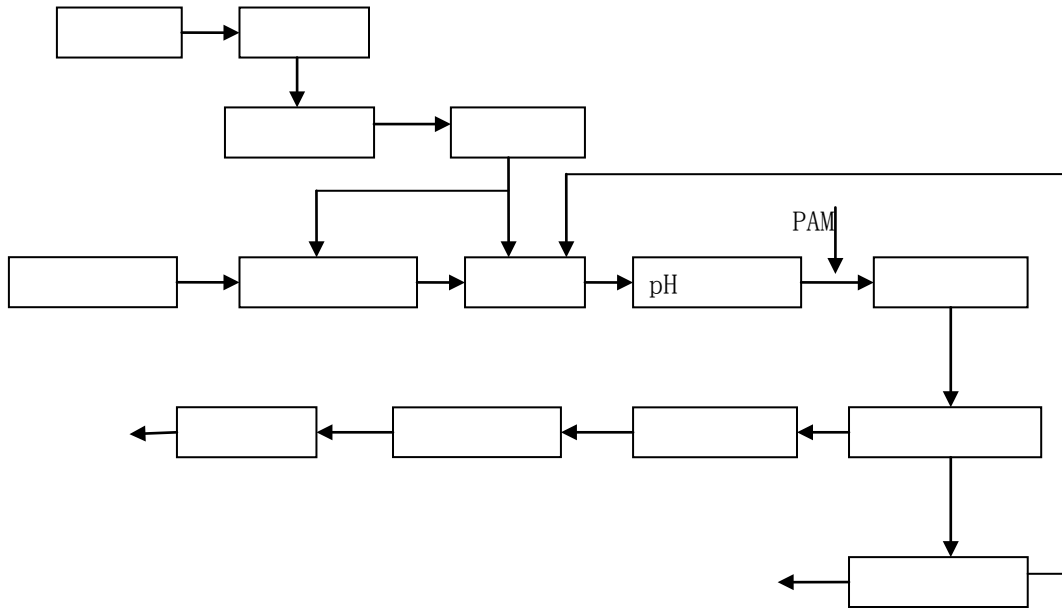
5



6



2.2.5“ ”
1



pH 5

pH 8
PAM

pH

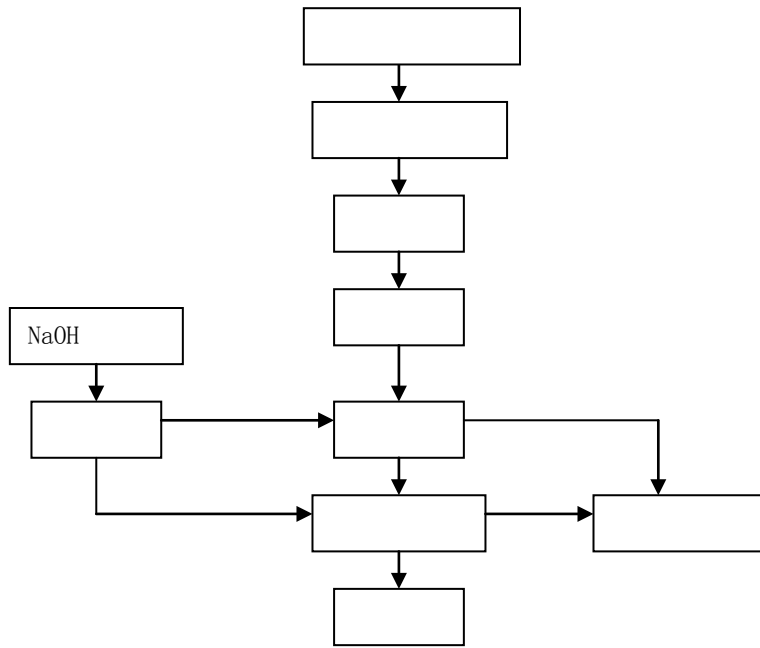
2

HF NO_x

30m
15m

SO₂ NO_x

15m



3

90dB(A)

GB12348-2008

1 2

4

5 “ ”

2-5 “ ”

		pH NH ₃ -N TP SS COD	
		COD	
		HF NO _x	30m
		SO ₂ NO _x	15m
		SO ₂ NO _x	15m
	—		

2.3
2.3.1

1

8
2.3.2

4-1

4-2

4-3

4-4

4-5

2.3.3

500

2-6

2-6

500m

						m	
		1			E	50	150
		2			S	150	600
		1			E	50	150
		2			S	150	600
		3			W	450	700
		4			SE	450	200
		5			NE	400	320
		6			SE	300	330

2-6

				m				
		1		NW	50	350		
		2		SW	100	700		
		3		E	200	250		
			1		NW	50	350	
			2		SW	100	700	
			3		E	200	250	
			4		W	250	400	
			5		SE	450	200	
			6		NE	400	320	
			7		E	450	150	
			1		SW	150	200	
			2		W	100	700	
				1		SW	150	200
				2		W	100	700
3				E		200	250	
4				S		450	600	
6				NE		500	320	
7				E		450	150	
			1		E	300	800	
			2		SE	400	700	
		1		W	200	---		
		1		S	200	250		
		1		S	200	250		
		2		NE	450	750		
		3		NE	400	700		
		1		N	1	---		

2.3.4

1

(GB3095 2012)

2-7

2-7

()

		(mg/Nm ³)		
SO ₂		0.15	GB3095—2012	
	1	0.50		
NO ₂		0.08		
	1	0.20		
PM ₁₀		0.07		
		0.15		
HF		0.007		
		0.02		
NO _x		0.15		TJ36-79

(GB3096-2008)2
 22:00-6:00 50dB(A) 6:00-22:00 60dB(A)

()

(GB3838 2002)
 GB3838-2002

2-8

2-8		mg/L	pH
1	pH		6-9
2			3
3			10
4	(COD)		30
5	(BOD ₅)		6
6	(NH ₃ -N)		1.5
7	(TP)		0.3
8	SS		60

2

()

2-9

2-9

()

		4		COD	500	mg/L	
				SS	400	mg/L	
					35	mg/L	
				TP	8	mg/L	
	GB18918-2002	1	A	COD	50	mg/L	
					SS	10	mg/L
						5-8	mg/L
					TP	0.5	mg/L

GB12348-2008

1 2 6:00-22:00 60dB(A) 22:00-6:00
 50dB(A)

GB16297-1996 2

GB9078-1996 2
GB13223-2011

2-10

		mg/m ³	kg/h
		11	0.59
		240	4.4
		200	/
		420	0.91
		700	3.0
		150	/
		/	/
		1200	/

3
3.1

1

H

2

3

4

5

GB18218-2009

1

HJ/T169-2004

1 2

3.2

3.3

1

3.4

3-2

		A-B	C	D	E-F
1.5m/s	Cm(mg/Nm ³)	1.74E-02	1.65E-02	1.36E-02	1.52E-02
	(m)	398	628	891	1339
	LC ₅₀ m				
	m				
	P %	0.19	0.18	0.15	0.17
0.5m/s	Cm(mg/Nm ³)	3.52E-02	3.77E-02	3.39E-02	7.36E-03
	(m)	31	77	141	481
	LC ₅₀ m				
	m				
	P %	0.39	0.42	0.38	0.082

3-3

		A-B	C	D	E-F
1.5m/s	Cm(mg/Nm ³)	251166.6	310028.5	368303.1	449909.3
	(m)	1	1	1	1
	LC ₅₀ m	308	86	92	37
	m	818	663	586	461
0.5m/s	Cm(mg/Nm ³)	169242	152027.1	125151.1	119829.9
	(m)	1	1	11	11
	LC ₅₀ m	67	110	141	161
	m	572	473	417	390

3.5

1.

2.

A.

0.5m/s

A-B

169242mg/m³

LC₅₀

161
 B. 1.5m/s 161
 E-F 449909.3mg/m³ LC₅₀
 818 818
3.6
 1.
 8.33×10⁻⁵ 1 “ 1.33×10⁻⁵ ”

2.

3.7 / / / / / / /

/

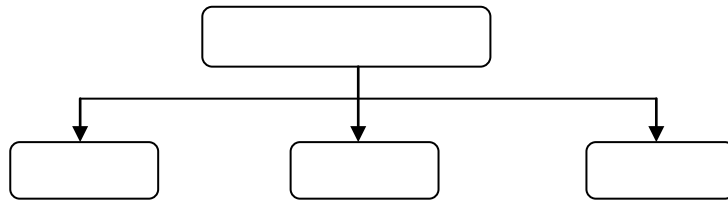
4

“

”

4.1

4-1



4-1

4.2

1

1

2

)

110

3

4

5

6

2

1

2

3

1

2

3

4

5

6

7

8

4

1

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3

4

2.

5

5.1

5-1

			t	
			—	1. 2.
			30	1.
			30	2.
			10	3. 4.
			—	1. 2. 3.

5.2

5.2.1

(1)

(2)

(3)

5.2.2

5.3

5.3.1 24

5.3.2 24

24

48

24

5.3.3

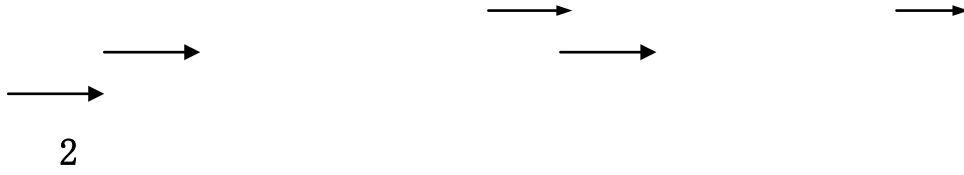
110

12369

6

6.1

1



3 24

24

0519-88736541

6.2



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6.3

6.4

7
7.1

“ 1.3.2 ”

1

15

15

,

2

15

15

7.2

7.2.1

1

DCS

2

“ ”

3

4

7-1

7-1

1		10
2		
3		
4		
5		5

7.2.2

1

110

1

2

3

2

1

a.

;

b.

c.

a.

b.

c.

d.

2

3

1

2

3

4

5

6
 7
 8
 9
 4
 1
 2
 3 125
 5
 1
 1

(ERG2000)

7-2

7-2

	m			(m)		
		30	200	600	125	1100	2900

1100m

2900m

125m

125m

1100m

2

7.2.3

1

2

7.2.4

COD pH

7.2.5

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

“ 120”

7.3

7.4

7.4.1

- 1.
- 2.
- 3.
- 4.
- 5.

7.4.2

- 1.
- 2.
- 3.

7.5

- 1
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

8

8.1

8.2

9

9.1

1

2

3

9.2

9.2.1

9.2.1.1

1.

2.

3.

9.2.1.2

1.

2.

3.

4.

5.

6.

- 7.
- 8.
- 9.
- 10.

9.2.2

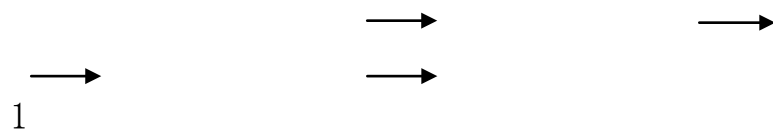
- 1.
- 2.
- 3.

9.2.3

- 1.

2

9.2.4



2

15

3

10

1
2

3
4

1
2

3
4

5

6

11
11.1

2%
11.2

7-1

11.3

11.4 2
 24

24

12

12. 1

12. 2

14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9