
•

1	.....	1
		1
		1
		2
		2
		3
2	.....	4
		4
		8
		9
		9
3	.....	10
		10
		27
		29
		29
		32
5	.....	34
		34
		34
6	.....	35
		35
		35
		35
		35
		36
7	.....	37
		37
		38
		42
		42
		43
		47
		48
		48
8	.....	48
		49

		50
		50
9	.....	51
		51
		51
		51
		52
		52
		53
		53
		53
		54
		55
		55
10	.....	57
		57
		57
		57
		58
11	.....	58

1

1.1

1.2

1.3

1.4



2

2.1

1

"

"

275621m²(413)

500t/d

2007

9 11

[2007] 176

350

900t/d

2009 9 16

[2009] 196

300

2× 400 m²/

2014 12 5

[2014] 140

120

2 1-1

			/
		20m ³	
			PLC /
			0.35Mpa
		2	/
			/
		8 10m 2 4m	4 6m

2.1-3

	900t/d		
			1011.4m ³ /d
		6F 2F	
		1500m ²	4
		20m ³	1
			PLC
			0.35Mpa
		3	2

		3	
		11m x 10m	1000m ³
		4 6m 1km	8 10m 2 4m
			6
		1	2 1

2.1-4

	2
LOWE	
	5712m ³
	1214 m ³
	1474 m ³
	320 m ³
	60 m ³
	60m ³
	90m ³
	2
	2
	2
	7m ³ /d
	/

2.2

1

28° 56

4

250

21. 5km

2.3

2.3-1

2.4

2.4-1

1

S

600-2000^m

10			NE	4000- 5000	
11			SW	3200- 5000	
12		/	NW	500	
13		/	NE	380	
14			E	3000	III

3

3.1

3.1.1

3.1-1

		t/a	98681	Si O ₂
		t/a	5395	Al ₂ O ₃
		t/a	25269	MgO
		t/a	5479	CaO
500t/d		t/a	31500	Na ₂ O
		t/a	945	
		t/a	80	C
		t/a	372	
		t/a	1.5	
		m ³ /h	1750	
		m ³ /h	55-110	
		t/a	177626	Si O ₂
		t/a	9710	Al ₂ O ₃
		t/a	45484	MgO
		t/a	9862	CaO
900t/d		t/a	56700	Na ₂ O
		t/a	1701	
		t/a	144	C
		t/a	670	
		t/a	1.9	
		m ³ /h	2100	
		m ³ /h	100-200	
2x 400 m ² /		m ² /a	800	
	Si Al	kg/a	2600	
	ZnAl	kg/a	160	
	Ag	kg/a	600	
	Ni Cr	kg/a	200	

m²/a

800

600



3.1-1

3.1.2.2

LowE

20μ s/cm

10-1

Ar

O₂

Ar

N₂

Ar

3 3 3

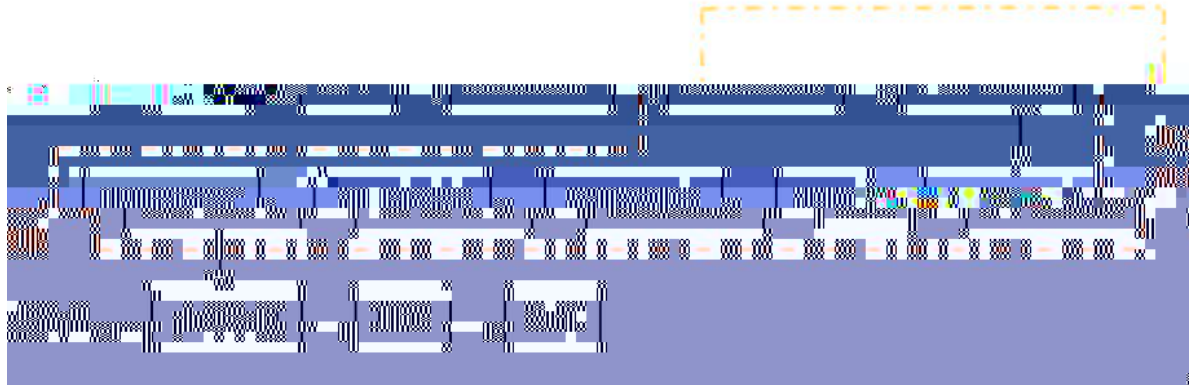
Al ZnAl

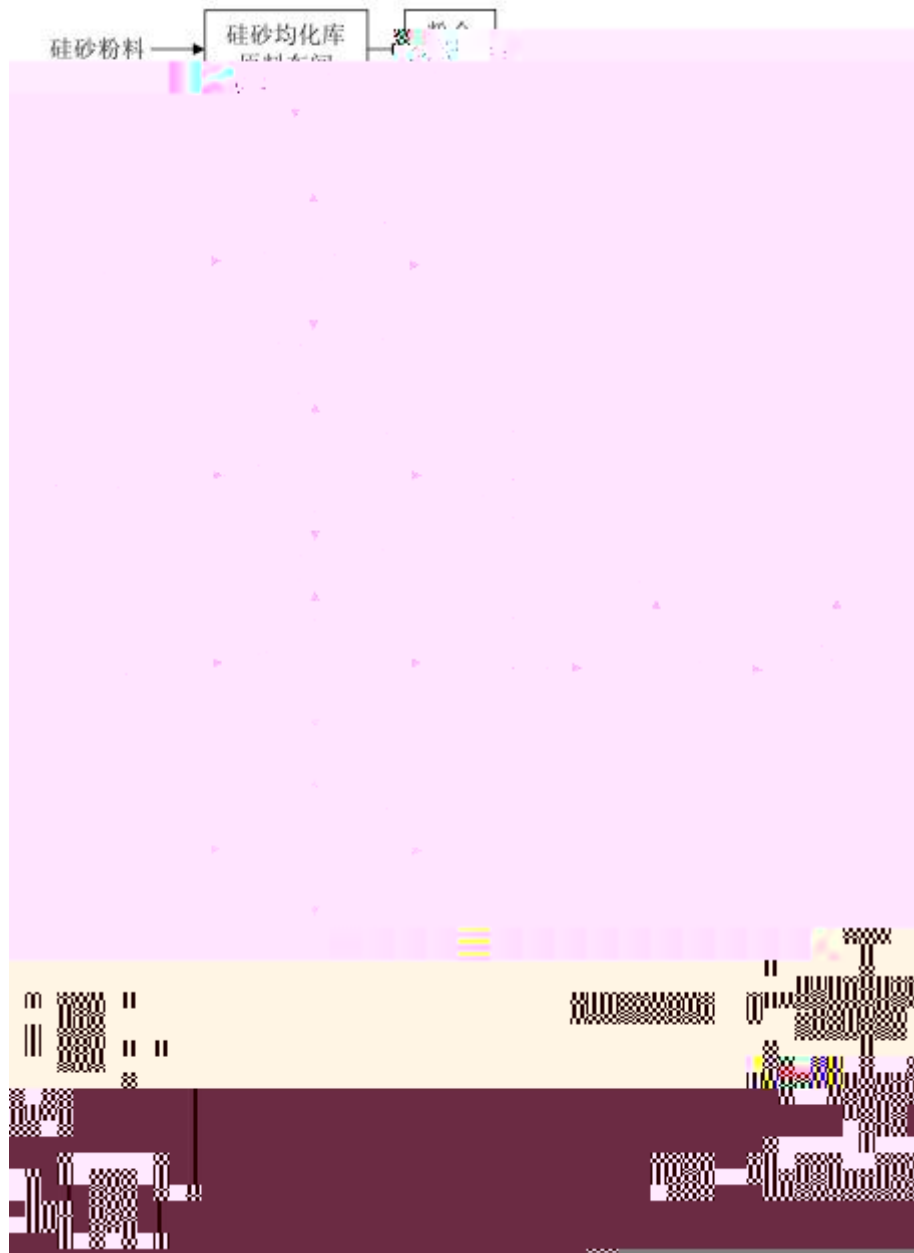
3.1-2

废水、噪声

不合格品

噪声



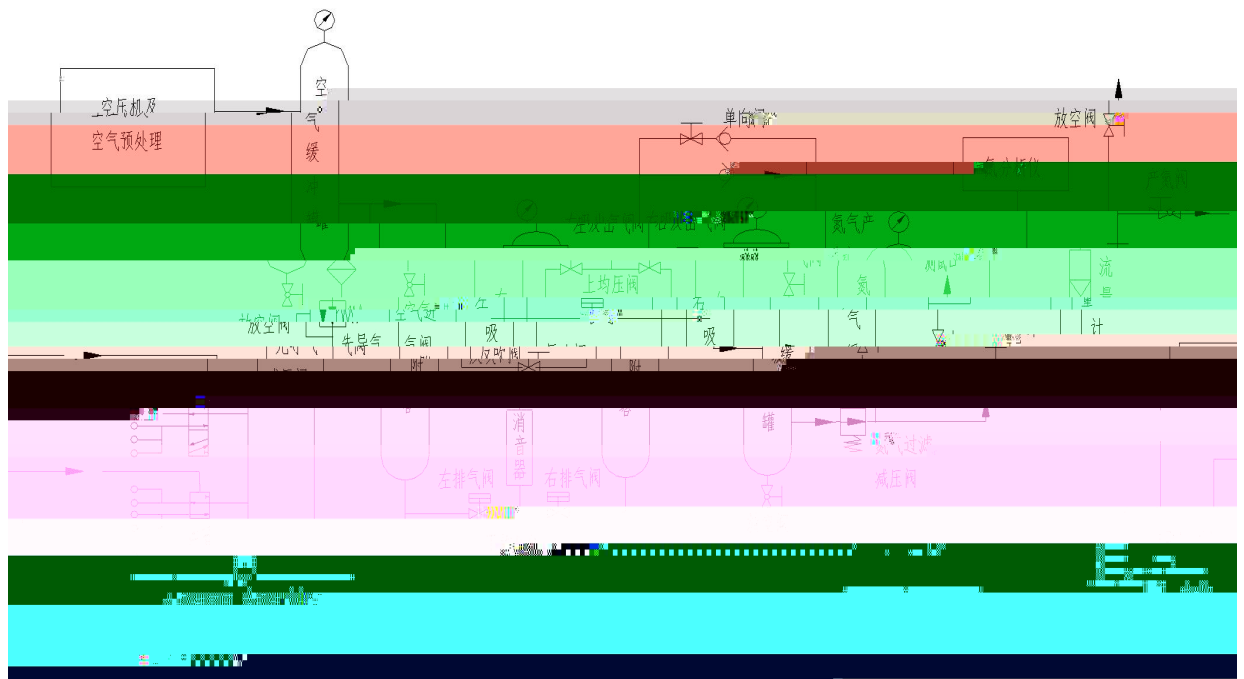


3.1-3

3.1.2.4

1

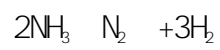
			PSA
	PLC		0.35Mpa
3ppm	60	50m ³	



3.1-4 PSA

2

20m³



800 850

H₂ N₂

H₂ N₂

U

()



63. 9т/а

3. 1-3

3. 1-3

90	48m ³ /d	/	/	Bst	60mg/L	0.72kg/d
	CO	500mg/L	6.5kg/d		20mg/L	0.26kg/d
	13m ³ /d	400mg/L	5.2kg/d		10mg/L	0.13kg/d
		100mg/L	1.3kg/d			

90	/	/	/
95dB(A)			

92000m³/h

100m

b

17

c

2

a

18m³/d

b

86.4m³/d

c

12m³/d

d

26.1m³/d

GB8978-1996

6.8m³/d

19.3m³/d

3

4

54. 75t/a

3. 1-4

3. 1-4

92000m ³ /h		80mg/m ³	7. 36kg/h	100m		
	SO ₂	165. 4mg/m ³	15. 2kg/h			
	NO _x	450mg/m ³	41. 4kg/h			
4800m ³ /h		20000mg/m ³	96kg/h		20mg/m ³	0. 144kg/h
3600m ³ /h		20000mg/m ³	72kg/h		20mg/m ³	0. 108kg/h
2× 4800m ³ /h		20000mg/m ³	288kg/h	99. 9	20mg/m ³	0. 432kg/h
9× 2400+5600 m						

b

1m³/d

c

d

7. 65m³/d

GB8978-1996

3

4

a

b

3.1-5

		m ³ /a	365	365	0	
		m ³ /a	3157.25	365	2792.25	
	COD	t/a	1.68	0.56	1.12	
	SS	t/a	1.40	0.56	0.84	
		t/a	0.08	0.02	0.06	
		t/a	0.34	0.09	0.25	
			t/a	200	200	0
		t/a	11.86	11.86	0	

3.1.4

3.1-3

		CAS						
1		7664-41-7				/		
2								
3		/					/	
4		74-82-8		/				
5		/			/	/	/	

3.1.5

3.1-4

			/Q(t)	/q(t)		q/Q	
1			10	25	50m ³ × 1 20m ³ × 1	2.5	
2	1		10	7.2	50m ³ × 1	0.72	
3	2		10	7.2	50m ³ × 1	0.72	
4			5000	600	1000m ³ × 2	0.12	
5			5	0.024	0.012t 50m ³ × 2	0.005	
6			50	<50		<1	

3.1.6

3.1.6.1

3.1-5

						(m ³)	(t)	
1		FXDY01	50m ³	FXDV01		50	25	
			20m ³	FXDV02		20	0	
2	1	FXDY02	1 50m ³	FXDV03		50	36	
3	2	FXDY03	2 50m ³	FXDV04		50	36	
4		FXDY04	1 1000m ³	FXDV05		1000	600	
			2 1000m ³	FXDV06		1000	600	
5		FXDY05		FXDV07		/	/	
6		FXDY06		FXDV08		/	/	

						(m ³)	(t)	

3.1.6.2

1

1 50m³ 1 20m³

1)

2)

24

3)

1 150m³

4)

5)

6)

7)

2 1
 1 1 50m³
 50m³
 3 2
 2 2 50m³
 50m³
 4
 2× 1000m³ 1 1
 2000m³

3.2

3.2.1

3.2.1.1

1. 5m/s F

1945. 5m

5869. 8m 150mi n

6538. 2m

150mi n

3.2.1.2

1.5m/s F

33m

425.6m 40min

5622.9m 150min

3.2.1.3

3.2.1.4

3.2.1.5

3.2.2

Q 5.17

MB

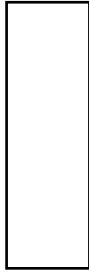
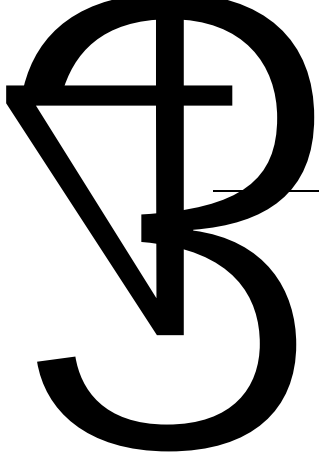
"

Q1MBE2 "

4

4.1

4.2



4.2-1

4.2.1

4.2.2

4.2.3

4.2.4

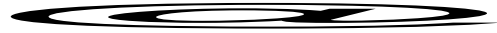
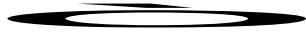




6.5

7

7.1



7.1-1

7.2

7.2.1

7.2.1.1

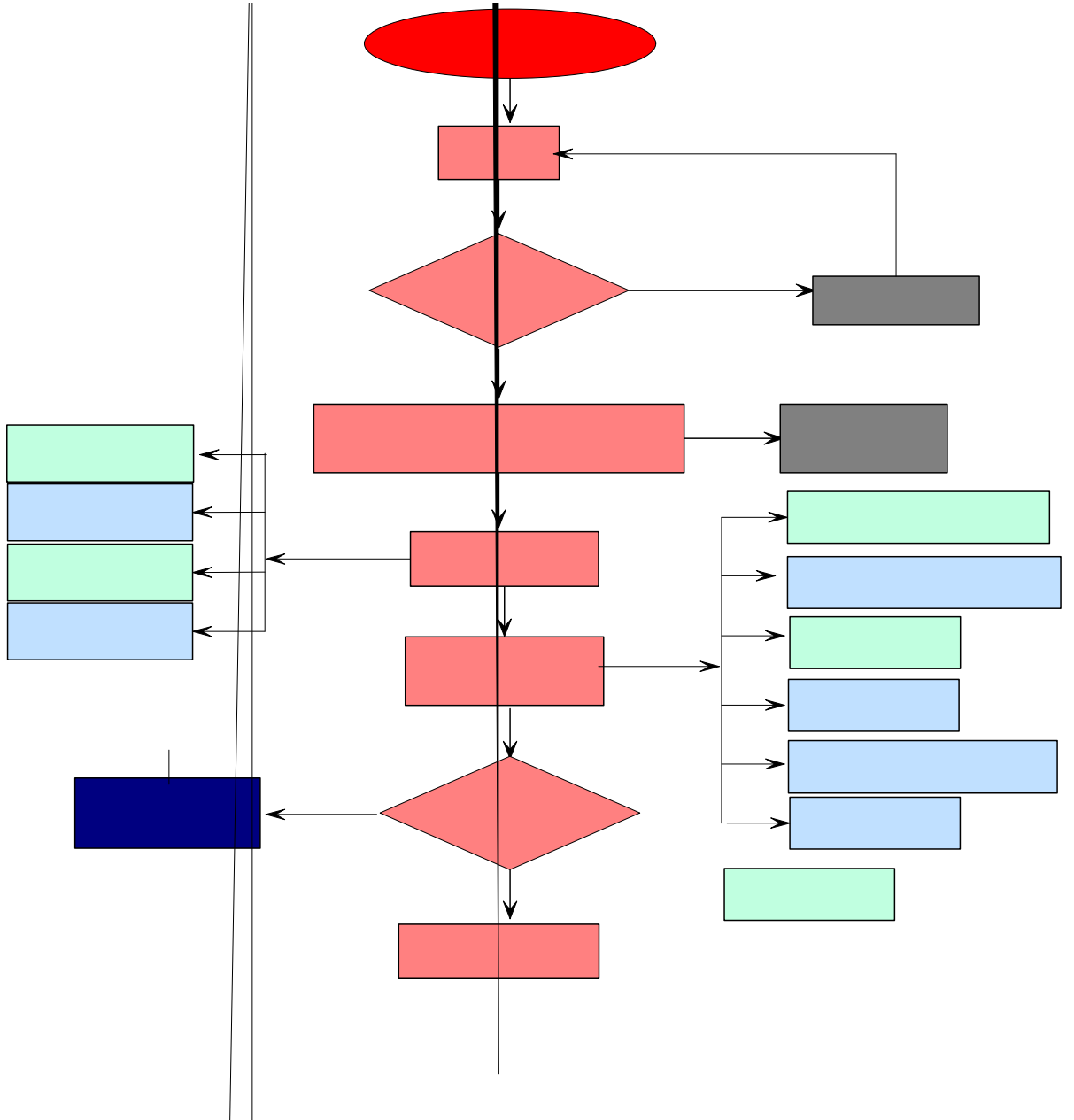
7.2.1.2



7.2.2.4

7.2.3

7.2.3.1



7.3

7.4

“

”

7.5

7.5.1

7.5.2

7.5.3

7.5.4

7.5.5

7.5.6

7.5.7

7.5.8

7.5.9

②

7.6

7.6.1

7.6-1

7.7

7.8

7.8.1

7.8.2

8

8.1

Appendix A: The End of the World

8.2

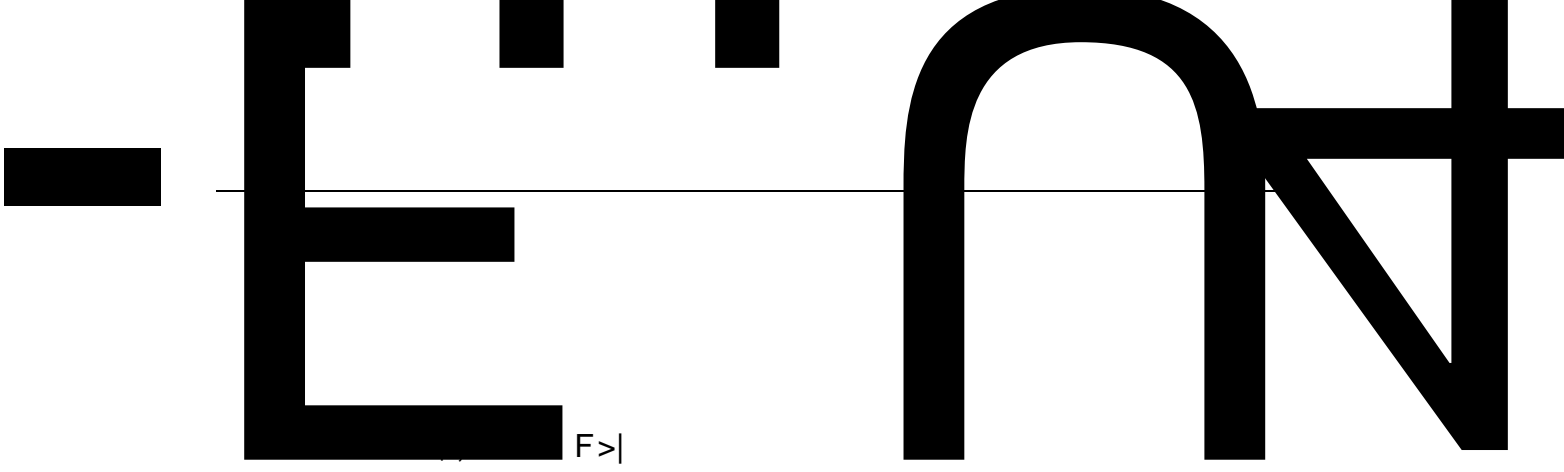
8.3

9

9.1

9.2

9.3



9.4

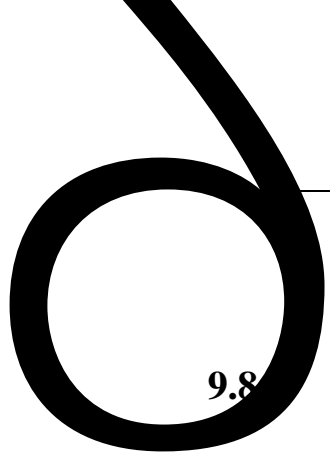
9.6

9.7

9.8

9.8.1

ë



9.8

9.8.3

9.10

9.11

9.11.1

9.11.2

10.4

11

1

2

3

4

5

6

7