

2020

2020

2020 9

2020

2020

2020

2020

2020

2020

2020

1	.....	1
1.1	.....	1
1.2	.....	1
1.3	.....	3
1.4	.....	3
1.5	.....	5
2	.....	6
2.1	.....	6
2.2	.....	6
2.3	.....	6
3	.....	29
3.1	.....	29
3.2	.....	30
3.3	.....	31
4	.....	38
4.1	.....	38
4.2	.....	38
4.3	.....	40
4.4	.....	42
5	.....	43
5.1	.....	43
5.2	.....	43
5.3	.....	45
5.4	.....	48
6	.....	50
6.1	.....	50
6.2	.....	52
6.3	.....	56
6.4	.....	58
6.5	.....	61
6.6	.....	61

7	.....	65
7.1	.....	65
7.2	.....	66
8	.....	68
8.1	.....	68
8.2	.....	68
8.3	.....	68
8.4	.....	69
8.5	.....	69
9	.....	71
9.1	.....	71
9.2	.....	73
10	.....	75
10.1	.....	75
10.2	.....	75
10.3	.....	76
11	.....	78

1

1.1

1

2

3

4

1.2

1.2.1

1

9

2

32

3

87

4

31

7		[2015]4
8	17	
9	2014	15
10	120	2012.5.31
11		
[2009]80		
12	HJ941-2018	2018.03.01
13		
41		
14		45
15	2014	119
16		
	2017	5
17		
	[2013]7	
1.2.3		
1	GB16297-1996	
2		GB18599-2001
3	GB18597-2001,XG1-2013	
4	2019	
5	GB18218-2018	
6	HJ169-2018	
7	DB37/T3599-2019	
8		2014 34
9		[2019]17
10		

11

2018 8

12

2016 74

1.2.4

1

3

1.3

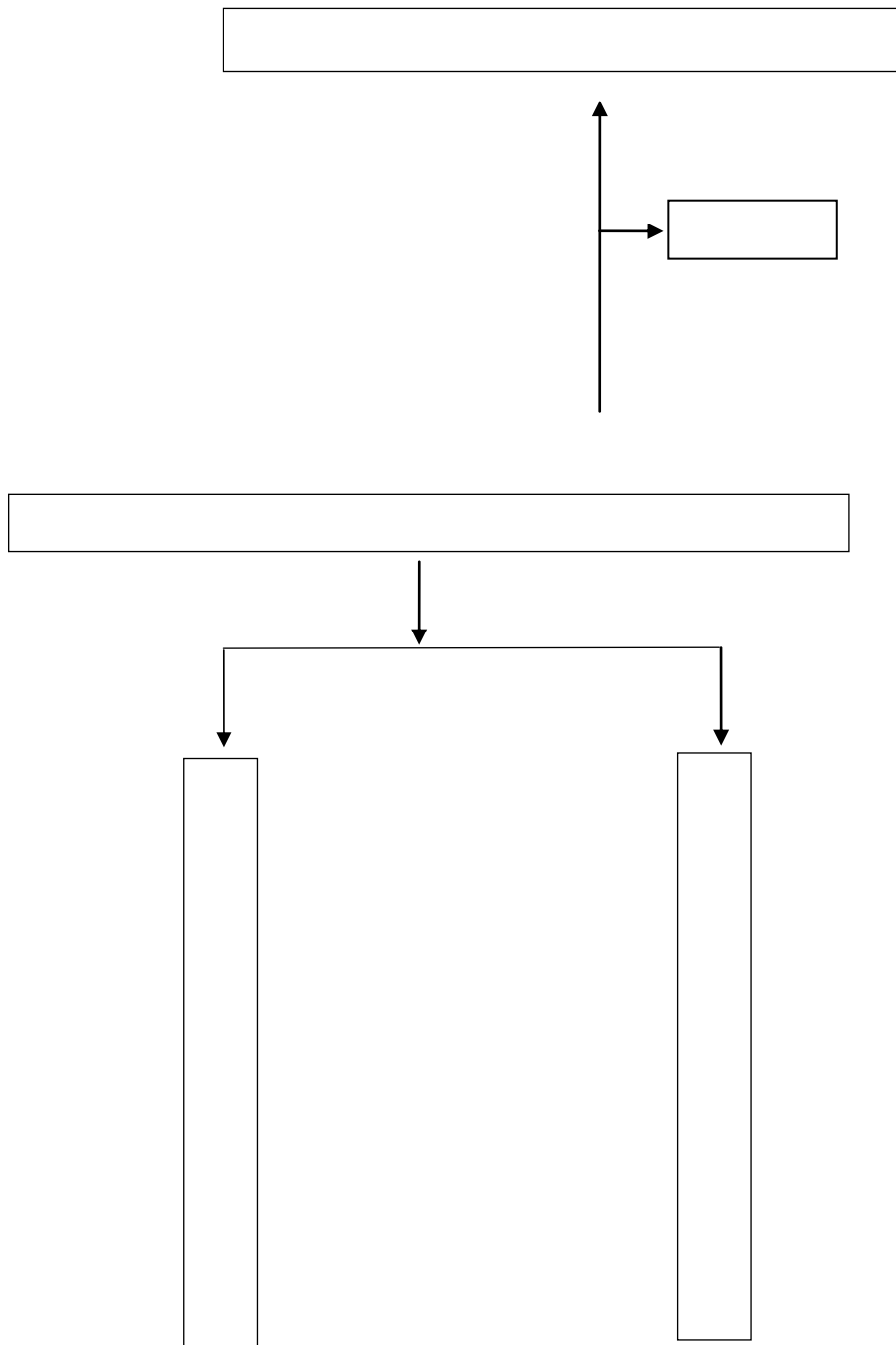
1

2

3

4

1.4



1.4-1

1.5

1

2

3

4

5

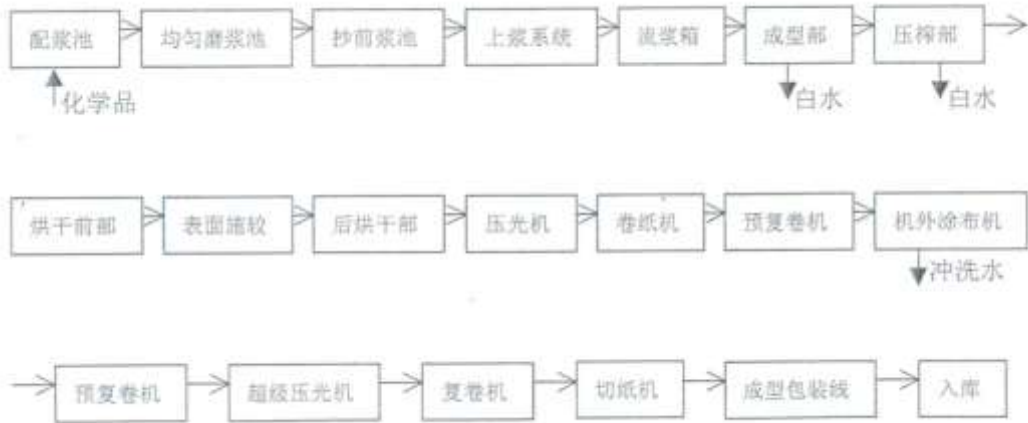
6

7



2.2-1

B



2.2-2

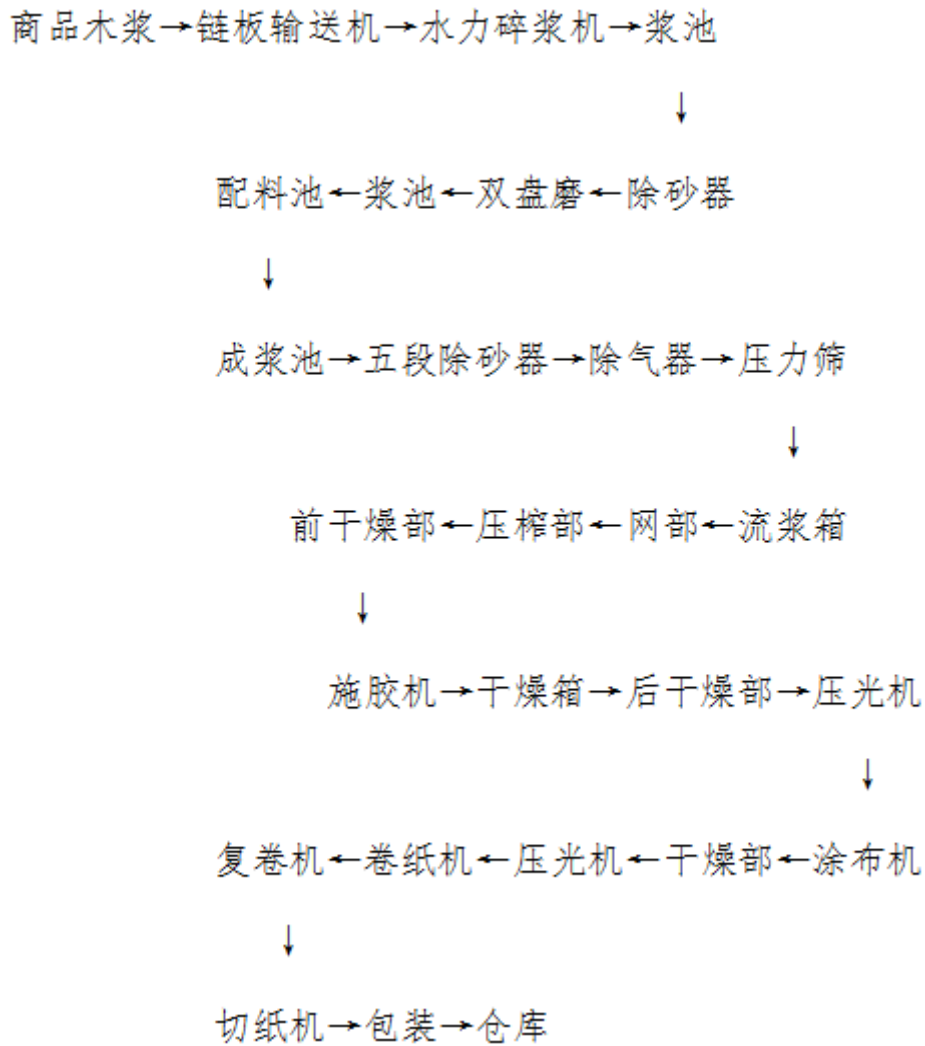
2

1

2

A

BCTMP



2.2-3

B

3

1

14

3400m²

14600m³

20

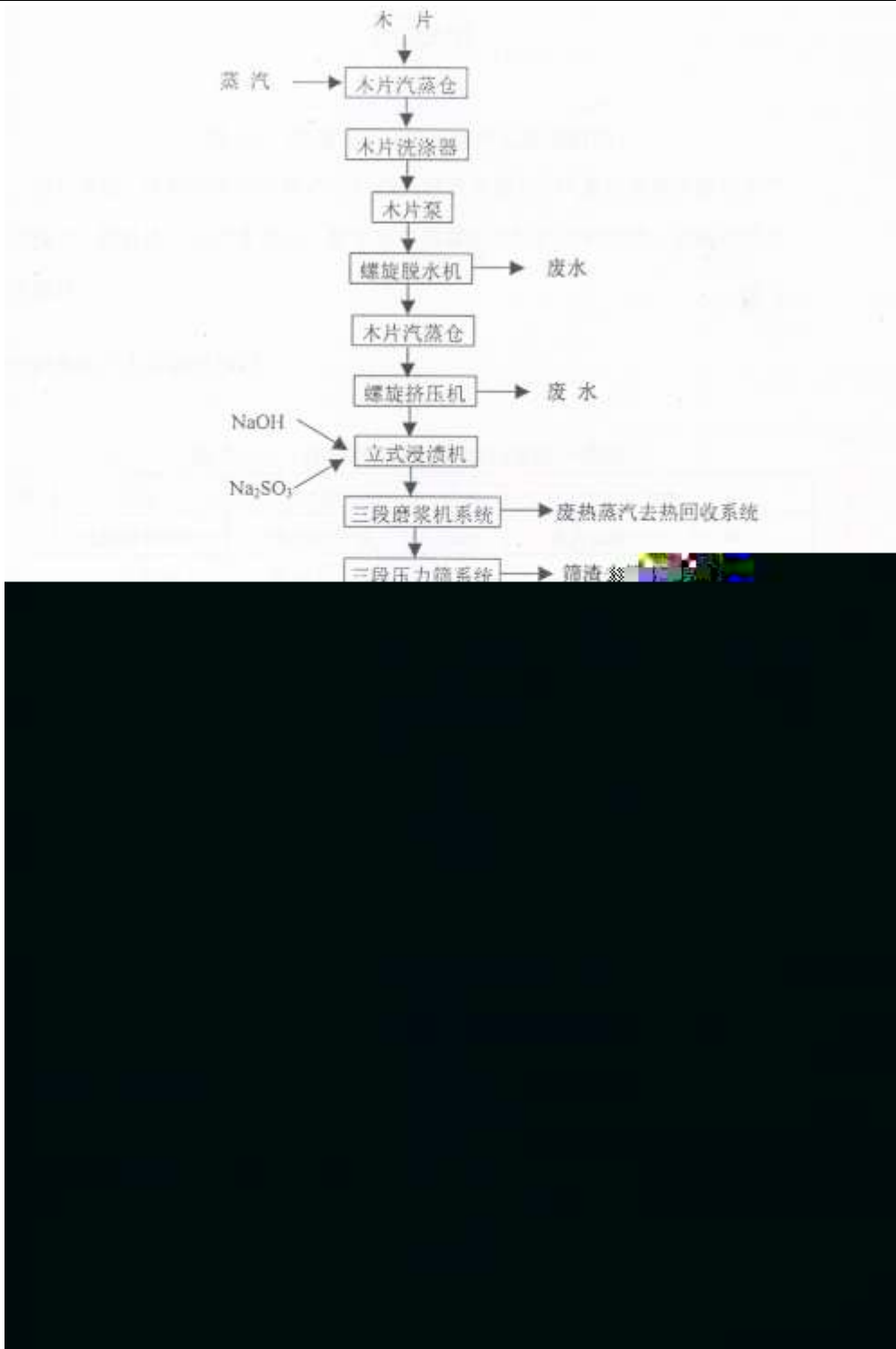


2.2-4

2 BCTMP

BCTMP

BCTMP



漂后浆塔

送去抄纸

2.2-5

4

A

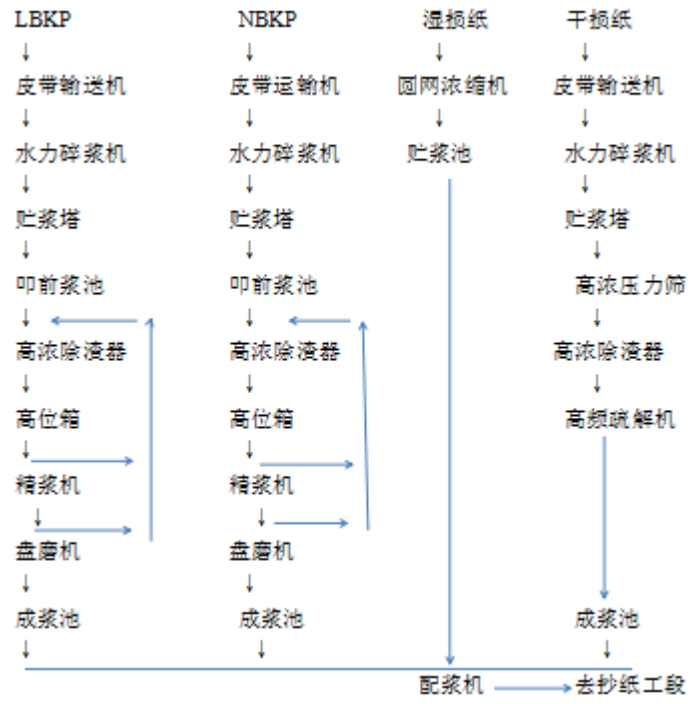
LBKP

10-15%

35 SR

NBKP

30 SR



2.2-6

B

OBA dye

PAC

AKD PAC

AKD

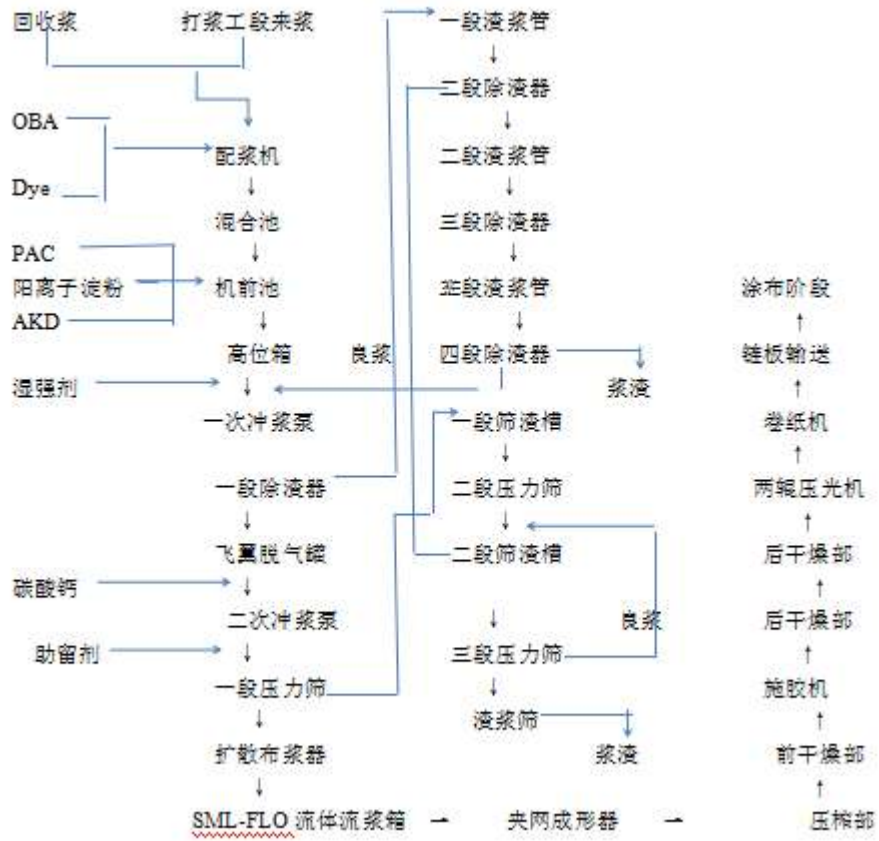
SYM-FLO

SYM PRESS 45-48%

92-95%

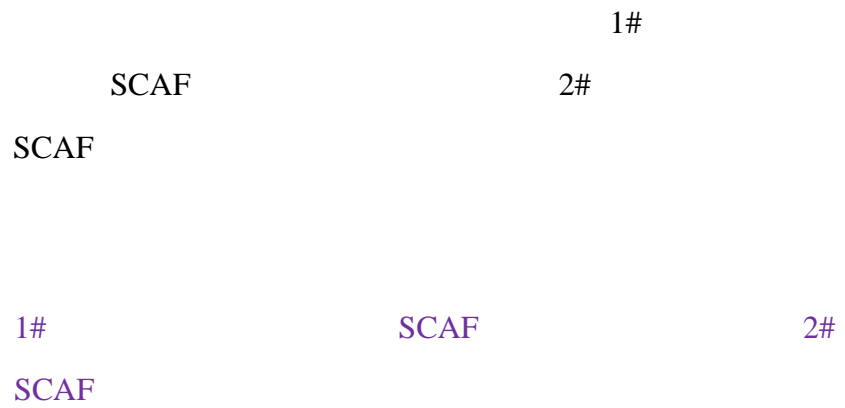
30-35%

92-95%



2.2-7

C



2.2-8

D

E

PAC AKD

CMC PVA

5

1

2

5 10

80

60%

4

30

35%

25-30%

90-120

25-30%

90-120



2.2-9

6

1

NBKP

S1

2

40

LBKP



S1

3

500 /

S1

4

S1

1

2

S2

S2

W1

3

4

5

6

7

W1

W3

W4

W5

8

20%~30%



W2

G2

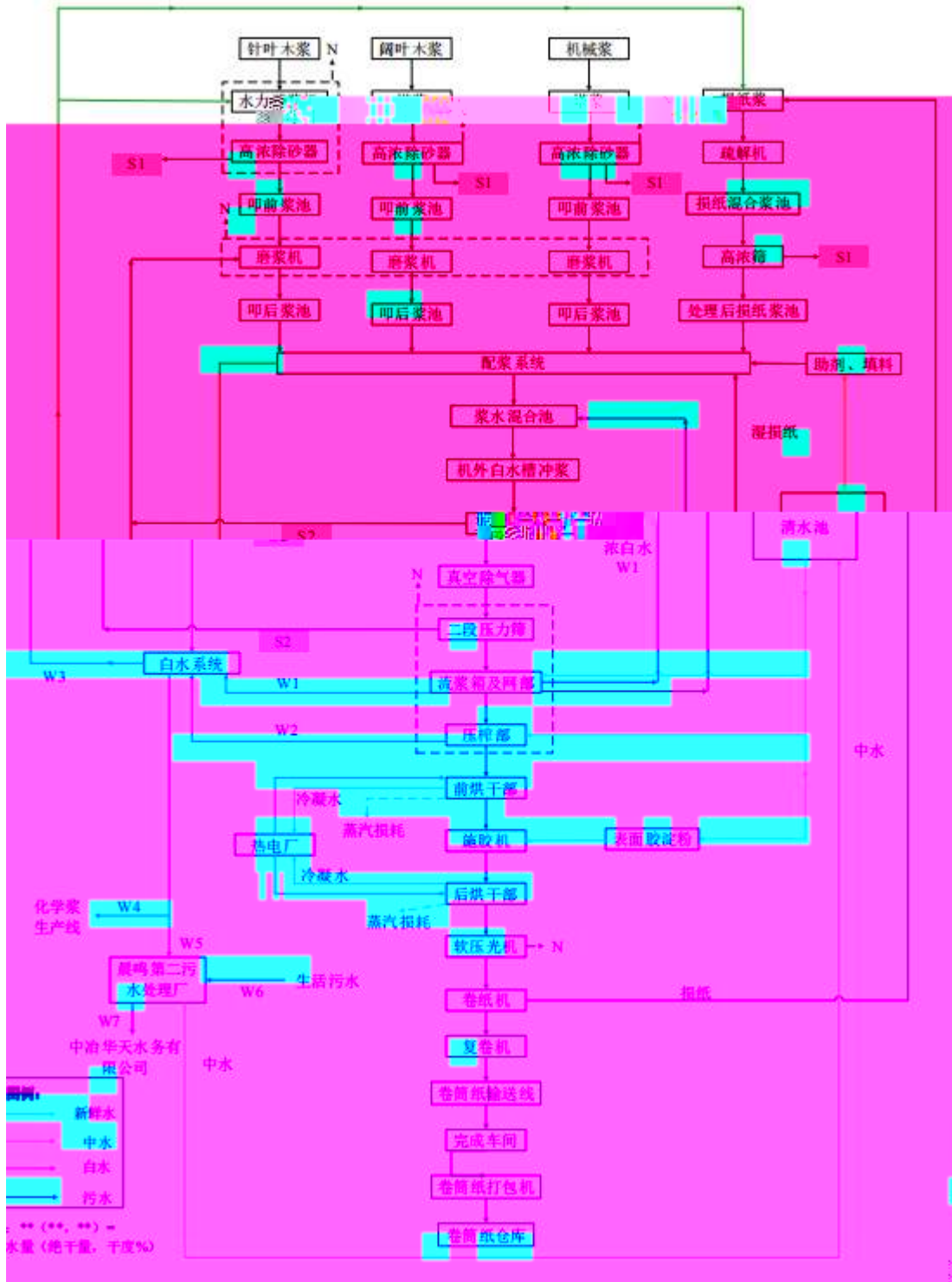
9

10

G1

2

25m

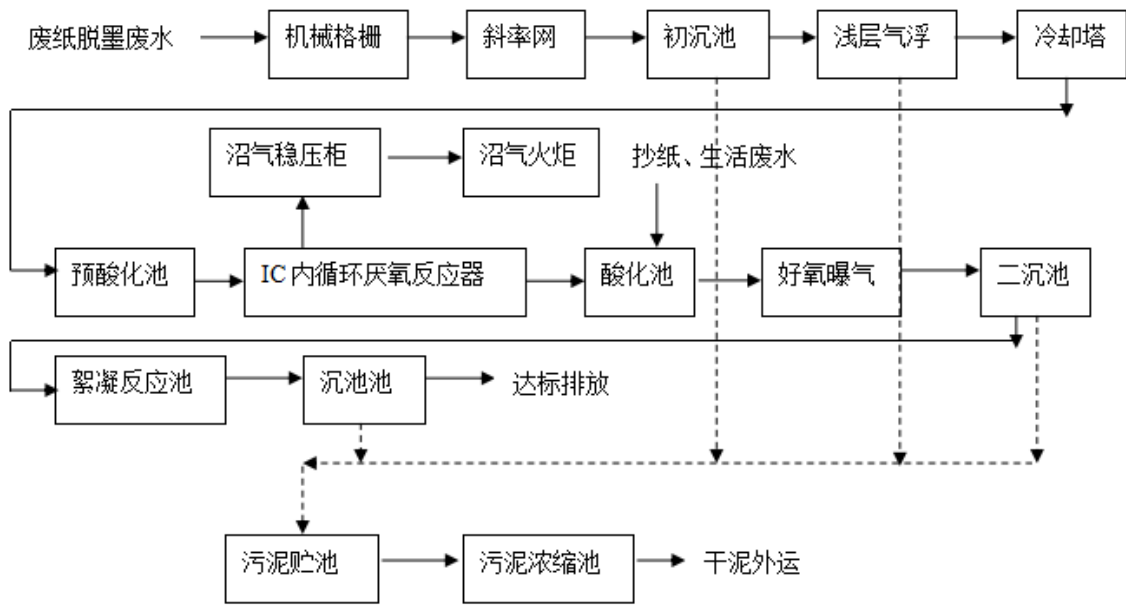


2.2-10

7

A 3.5 m³/d

IC



2.2-11 3.5 m³/d

B 6 m³/d

3mm

3

2 1

60-80

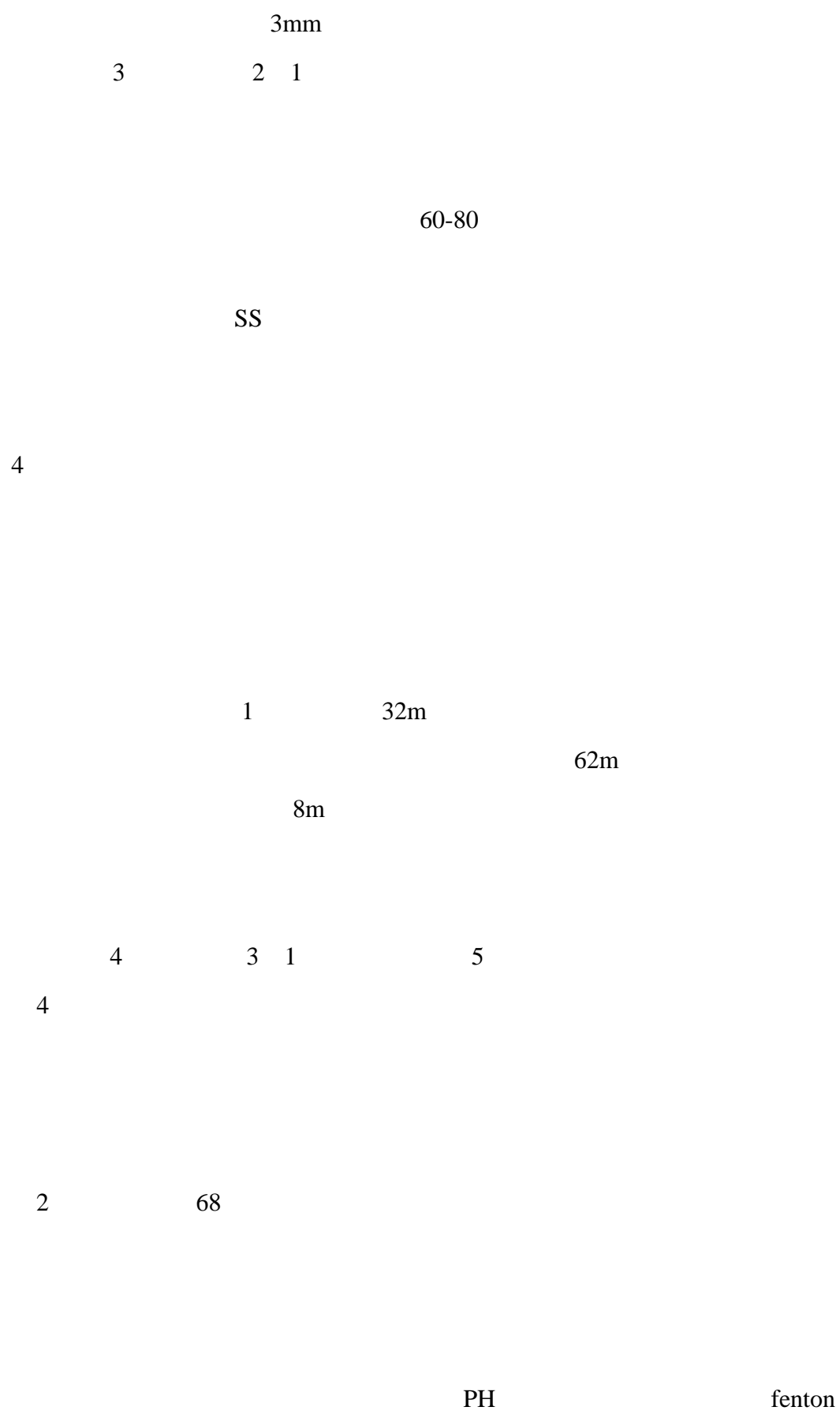
SS

SS

IC

IC

IC



fenton

fenton

fenton

fenton

Fenton

COD 60

300mg/l

1

6

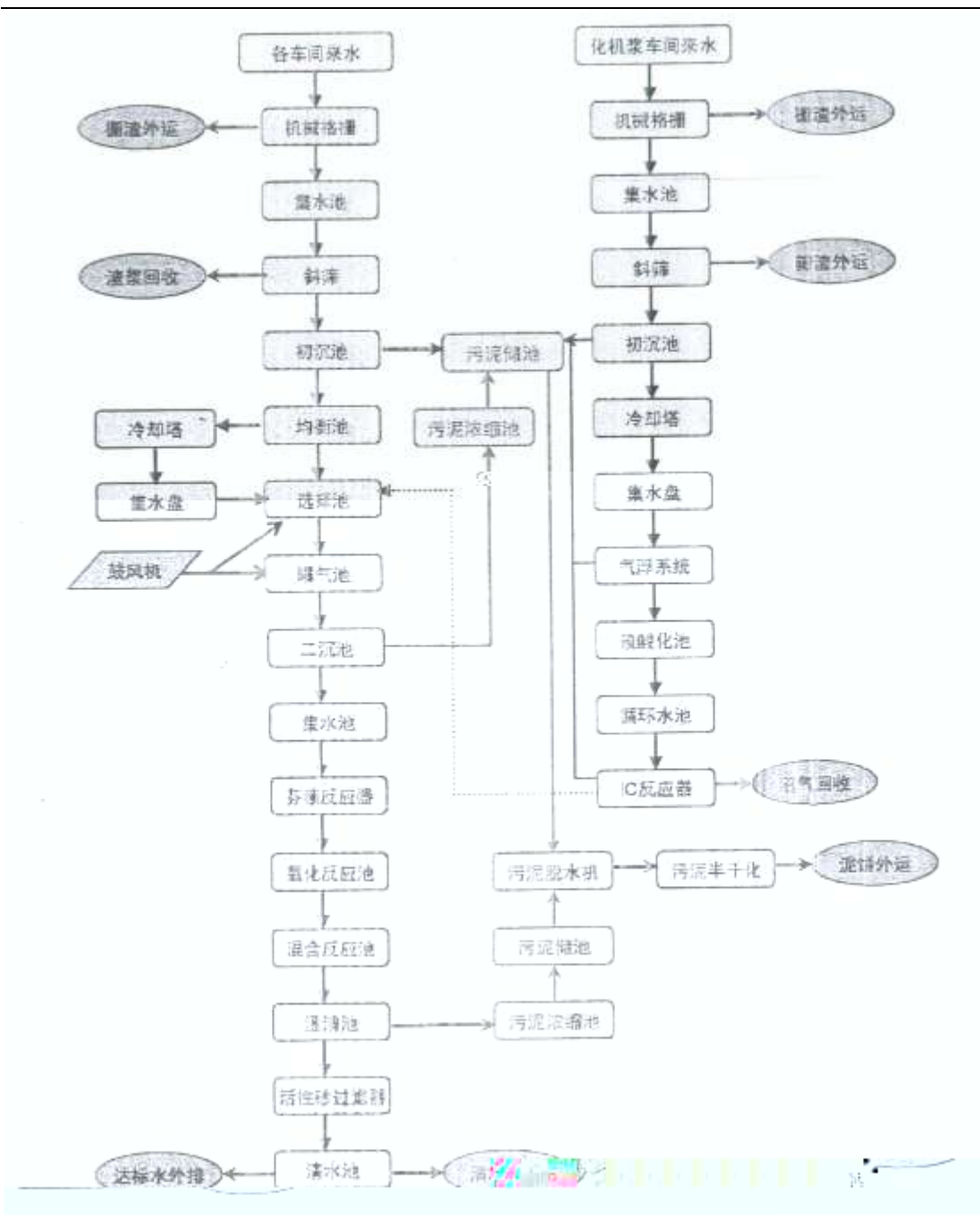
4

80%

50%

1

4



2.2-12 6 m³/d

2.3

2.3.1

2019

GB20592-2012

HJ941-2018

A

2.3-1

2.3-1

/

/

		+6m
		+12m
		+ +25m
		+

2.3.3

2.3-3

				/ /
1				2
2		3.5	6	6
3				4
4				2
5			6	3

6				1
7		6		1
8				6

2.3-4

			m	
1		WN	400	500
2		N	580	600
3		EN	780	500
4		N	980	500
5		WN	1130	1100
6		N	1020	700
7		E	1620	800
8		E	1620	600
9		E	1630	800
10		E	1890	500
11		E	1880	800
12		EN	1740	1000
13		N	1030	800
14		WN	970	1000
15		EN	1870	500
16		ES	1070	500
17		ES	1240	800
18		ES	1170	700
19		S	680	500
20		S	1780	400
21		S	1370	500
22		S	580	700
23		WS	150	700
24		WS	870	400

25		WS	1000	500
26		WS	860	500
27		WS	550	1000
28		WS	2900	500
29		WS	3470	500
30		W	1300	700
31		E	3480	1100
32		ES	1970	2000
33		ES	2180	1500

2.3-5

1			7800m
1		1km	

3

3.1

“ ”

[2014]34 B

2019

3.1-1

3.1-1

				/t	/	HJ 941-2018
1				0.5	10	
2			/	1048	100	

8				55	2500	
9				30	--	--
10			--	10	--	--
11				3	--	--

3.1.1

3.1-2

1					
2					
3					
4					

3.1.2

3.2

HJ941-2018

Q

M

E

Q2

/

10 Q=26.342 100

“ - **Q2-M1-E3** ”

/

10 Q=25.442 100

Q2

“ -

Q2-M1-E2 ”

3.3

1

2

3

3.3.1

1

8.2

2

3

8.1

4

5

6

7

8

3.3.2

3.3.3

3.3.4

3.3.5

3.4

3.4.1

3.4-1

1		
2		
3		12000m ³
4		

5		<p style="text-align: right;">+6m +12m + +25m</p>
---	--	---







1



2



3

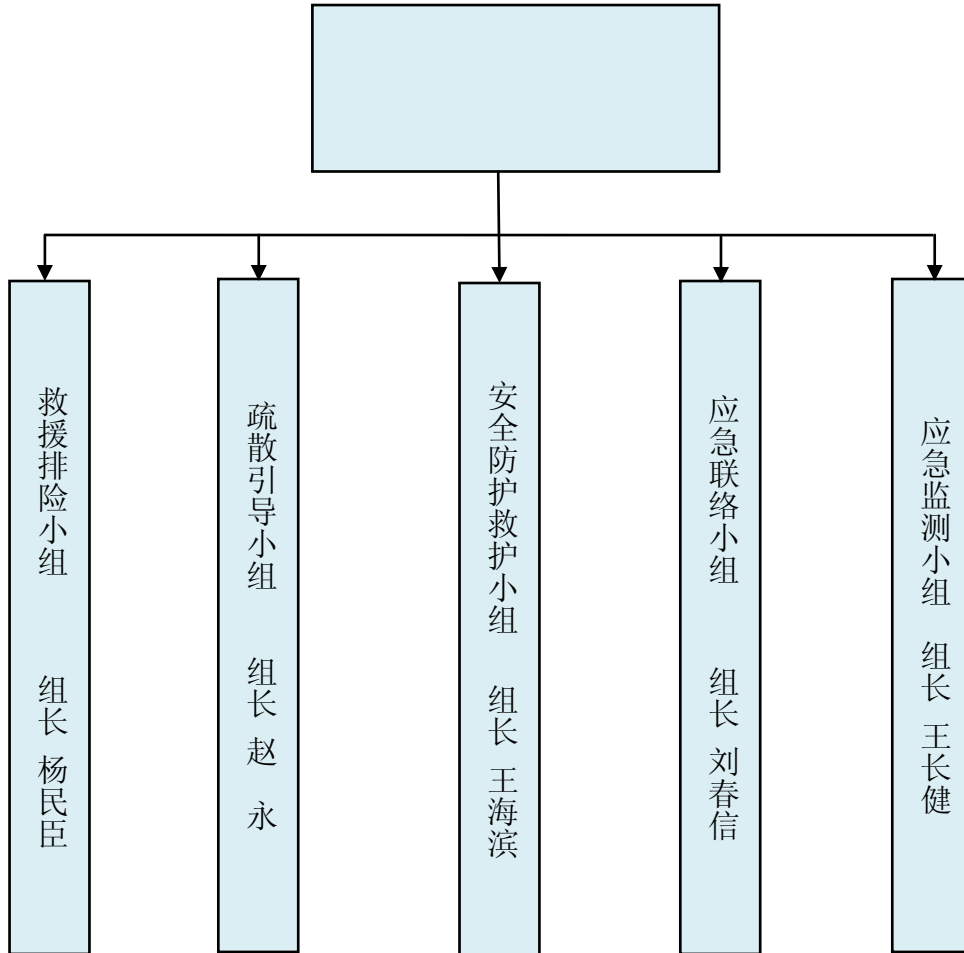


4

4

4.1

4.1-1



4.1-1

4.2

2

3

4

1

2



3

--	--

4

--	--

5

4.3

4.3.1

1

1

2

3

4

5

2

1

2

3

3

4

“ ”

5

4.3.2

1

2

4.4

1 24

2

3

4

5

6

7

8

5

5.1

3

12000m³

4

(2012.12.31)

([1996] 423)

5

6

7

8

5.3

5.3.1

1

2

3

1

2

3

1

2

3

5.3.2

1

2

3

5.3.3

1

2

3

4

5

6

7

8

5.4

5.4.1

5.4-1

	1		13964668876
	2		
	1		13869626662
	2		
	1		13563681538
	2		

5.4.2

6

6.1

6.1.1

1

2

6.1.2

1

2

3

4

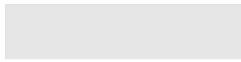
6.1.3

1

2



3



6.1-1

6.2

110 120 119 12345

6.2.1

1

2

6.2.2

1

2

6.2.3

1

2

6.2.4

6.2.5

6.2.6

6.3

6.3.1

6.3.1.1

6.3.1.2

1

5

2

3

4

5

14 16

6.3.2

6.3.3

1

2

3

4

6.3.4

6.3.4.1

6.3.4.2

6.3.4.3

1

2

6.3.4.4

1

2

3

6.3.4.5

1

2

6.4

6.4.1

6.4.2

1

2

3

4

6.4.3

1

2

6.4.4

1

6.4-1

6.4-1

		CO SO ₂ NO _x
		pH COD NH ₃ -N
		pH COD
		pH

2

3

4

1

a

b

c

d

2

/

6

6.4.5

6.5

1

2

3

6.6



3

6.6.3

“110”

“110”

6.6.4



7.1

7.1.1

1

2

3

4

5

7.1.2

7.2

1

2

3

8

8.1

5

8.2

8.3

1

2

24

3

8.4

8.5

1

2

3

4

5

1

2



9

9.1

9.1.1

1

1

2

3

4

5

6

2

1

2

3

4

1

2

3

4

5

6

7

9.1.2

1

2

3

4

1

2

9.1.3

1

2

1

2

3

3

4

9.2

9.2.1

1

2



3

100 2000

1

2

4

9.2.2

1

2

3

4

5

6

7

8

20

20

10.3

1

1

2

3

2

“

”

3

1

2

150

300

3

4

5

6

7

4

1

2

“

”

3

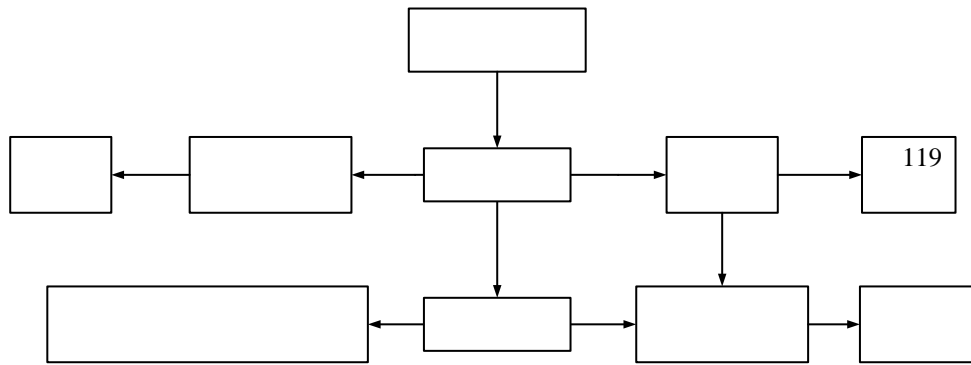
4

5

6

1.5

1



2-7

2

1

2

3

1.1

1.1.1

1

2

1.1.2

1.1.3

1.1.4



1.1.5

1

2

11

1

2

3

4

5

6

7

8

9

10

11