

HJ-BAT-XXX

**Guideline on Best Available Technologies of Pollution Prevention and Control
for Electroplating Industry on Trial**

	.....	1
1	.....	2
1.1	.....	2
1.2	.....	2
2	.....	2
2.1	.....	2
2.2	.....	3
3	.....	5
3.1	.....	5
3.2	.....	8
3.3	.....	10
3.4	.....	11
3.5	.....	12
3.6	.....	12
4	.....	13
4.1	.....	13
4.2	.....	14
4.3	.....	15
4.4	.....	18
4.5	.....	19
4.6	.....	19

1

1.1

1.2

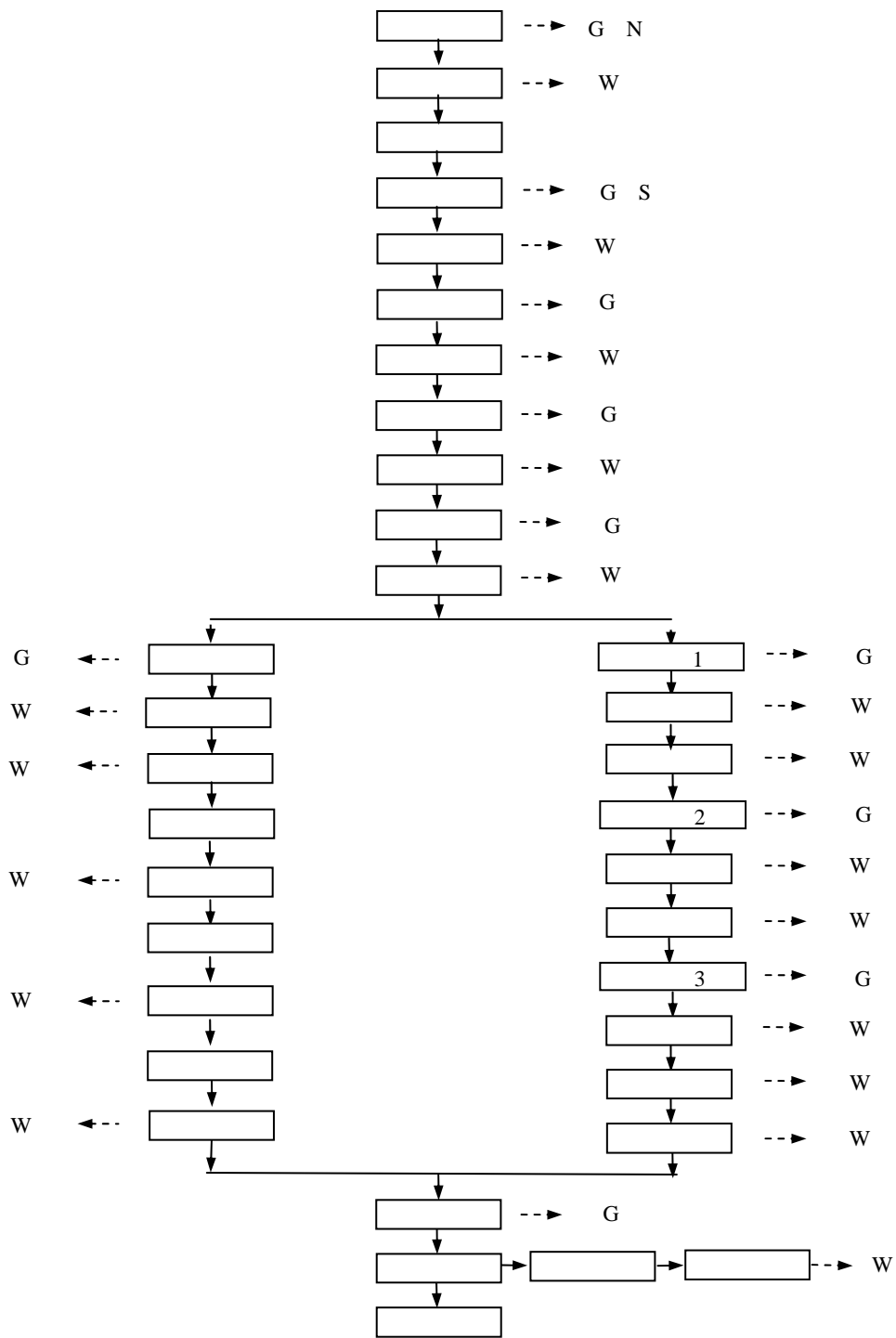
1.2.1

1.2.2

2

2.1

1



1

2.2

2.2.1

EDTA

2.2.2

1

1

3

3.1

3.1.1

3.1.1.1

90%

3.1.1.2

CDS

pH1.0 3.0

CDS

(Cu²⁺)

3.1.1.3

24K

3.1.1.4

350HV

3.1.1.5

3.1.1.6

95%

20%

80%

3.1.1.7

3.1.2

3.1.2.1

3.1.2.2

90%

100%

3.1.2.3

3.1.2.4

30%

3.1.3

3.1.3.1

3.1.3.2

-

3.1.3.3

3.1.3.4

100%

3.1.3.5

3.1.3.6

150g/L

,

95%

3.1.3.7

,

3.2

3.2.1

3.2.1.1

3.2.1.2

pH 7 9 pH 2.5 3.0

3.2.1.3

pH

pH

3.2.1.4 +

/

95%

3.2.2

3.2.2.1

15 20min pH9 11 97% 99%

3.2.2.2

30 60

pH 9 10

pH 2 4

pH 8 9

3.2.2.3

+

+

3.2.3

3.2.3.1 A/O /

CODcr 500mg/L

CODcr

80%

CODcr 100mg/L

3.2.3.2 A²/O /

A²/O A/O

CODcr 500mg/L

50mg/L

CODcr

80% 90%

80%

90% CODcr50 100mg/L

5 10mg/L

COD

3.2.3.3 A/O²(/)

A/O² A/O

O

O

A

CODcr 500mg/L

50mg/L

CODcr

80% 90%

85%

90% CODcr50 100mg/L

5 7.5mg/L

COD

3.2.3.4

3000 6000mg/L

CODcr 500mg/L 50mg/L 5mg/L CODcr 90% 95%
 85% 90% 70% 75% CODcr50 75mg/L 5 7.5mg/L 1.25
 1.5mg/L

COD

3.2.3.5

2.0mg/L 0.2 0.5mg/L
 8000 12000mg/L

CODcr 500mg/L 50mg/L 5mg/L CODcr 93% 95%
 90% 95% 90% 95% CODcr 25 35mg/L 2.5 5.0mg/L
 0.5mg/L

COD

3.2.3.6

15000mg/L 100% 500% 10000

CODcr 500mg/L 50mg/L 5mg/L 60mg/L CODcr
 93% 95% 90% 95% 90% 95% 90%
 CODcr25 35mg/L 2.5 5.0mg/L 0.25 0.5mg/L 6mg/L
 COD

3.2.4

3.3

3.3.1

3.3.1.1

3.3.1.2

95%

3.3.1.3

15%

90% 96%

3.3.2

3.3.2.1

/

3.3.2.2

/

3.4

3.4.1.

3.4.3

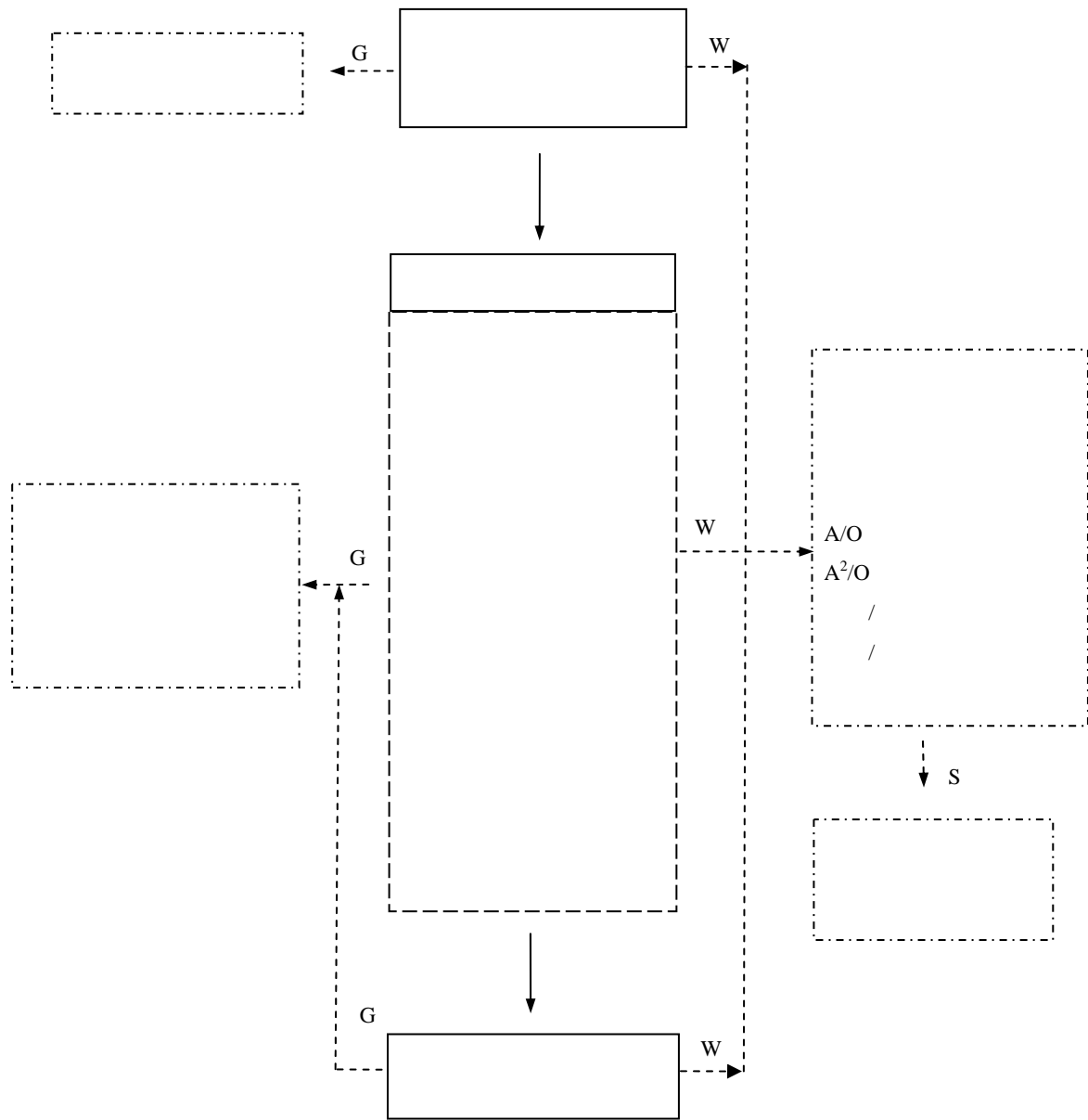
90%

1%

4

4.1

2



□
□

4.2

2

4.3.2.3

4.3.3

4.3.3.1

pH 6 15 20min

4.3.3.2

pH pH

4.3.3.3

4.3.4 +

4.3.4.1

pH 6.0 7.0 0.03 0.4μm -0.01 -0.03MPa

4.3.4.2

90% 95%

4.3.4.3

4.3.5 A/O

4.3.5.1

pH6.5 8.5 DO 0.2 0.5mg/L O A 20 35°C pH7 8 DO 2.0mg/L

4.3.5.2

CODcr 500mg/L CODcr 80% CODcr 100mg/L

4.3.5.3

4.3.6 A²/O

4.3.6.1

0.2mg/L A 4h 20 35°C pH6.5 8.5
0.5mg/L O A 2 4h, 20 35°C pH6.5 8.5 0.2
4h 20 35°C pH7 8 2.0 4.0mg/L

100% 300%

4.3.6.2

	CODcr	500mg/L		50mg/L	CODcr	80%	90%		80%
90%	CODcr50	100mg/L		5 10mg/L					

4.3.6.3

4.3.7

4.3.7.1

			3000	6000mg/L		2.0	4.0mg/L		
-0.01	-0.03MPa		HRT	4 6h		100%	300%		0.03 0.4μm

4.3.7.2

	CODcr	500mg/L	BOD ₅	200mg/L		50mg/L		5mg/L	
60mg/L	CODcr		80% 90%	BOD ₅	90%			80% 90%	
70%	80%		70% 80%	CODcr50	100mg/L	BOD ₅		20mg/L,	5.0
10mg/L	1.0	1.5mg/L		18mg/L					

4.3.7.3

4.3.8

4.3.8.1

			15g/L			2.0mg/L			
0.5mg/L			-0.01	-0.03MPa		HRT	4 5h		100%
500%	0.03	0.4μm							

4.3.8.2

	CODcr	500mg/L	BOD ₅	200mg/L		50mg/L		5mg/L	
60mg/L	CODcr		95% BOD ₅		95%		90%	95%	90%
95%		90%	CODcr25	35mg/L	BOD ₅	10mg/L,	2.5	5.0mg/L	
0.5mg/L		6mg/L							

4.3.8.3

4.3.9

4.3.9.1

	60%	75%		97%		0.9	1.7MPa		60%	90%
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4.3.9.2

20 40mg/L

0.4mg/L

4.3.9.3

4.3.10

3

		95%	CN ⁻	0.2mg/L	
		98%		0.2mg/L	
		98%			
+		95%	50%	60%	
A/O		CODcr CODcr	500mg/L 100mg/L	CODcr	80%
A ² /O		CODcr 80%	500mg/L 90%	50mg/L 80%	CODcr CODcr50
		100mg/L	5 10mg/L		
		CODcr 50mg/L	500mg/L 5mg/L	BOD ₅ 60mg/L	200mg/L CODcr
		80%	90%	BOD ₅ 90%	
		80%	90%	70%	80%
		80%	CODcr50	100mg/L	BOD ₅ 20mg/L,
		10mg/L	1.0	1.5mg/L	18mg/L
		CODcr 50mg/L	500mg/L 5mg/L	BOD ₅ 60mg/L	200mg/L CODcr
		95%	BOD5	95%	90%
		95%	90%	95%	90%
		CODcr25	35mg/L	BOD ₅	10mg/L,
		0.5mg/L		6mg/L	2.5
			20	40mg/L	1800μS/cm
				0.4mg/L	50μS/cm

4.4

4

		10%			
		90%			
		95%	5%		(HF)
				85%	

	95%	
	pH	90%
		0.1% 0.2%
		3 4s
96%		

COD

4.6.4

4.6.5

4.6.6

4.6.7