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1.3	- 6 -
1.4	- 37 -

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2020 3 20

[2020]95

2021 1 19

[2021]5

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[2021]322

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2023 12

91340311MA2WEX8K0C001V

2024 3 1

340311005

1.2-1

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1.3-1

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				/	/
	100 /		10		
/		1.6 /	2		
	0.4 /				
			100 /		
			2		
			1.6 /		
	0.4 /				

30000t/a					30000t/a				
HW02	HW03	HW04	HW05	HW06	HW02	HW03	HW04	HW05	HW06
HW08	HW09	HW11	HW12	HW13	HW08	HW09			
HW14	HW16	HW18	HW37	HW38					
HW39	HW40	HW45	HW49	19					

223

		GB18484-2020 50m 1.3m SCR DA001 50m 1.3m 1# DA002 25m 0.85m 1# 2# ð + + ö DA003 25m 2.4m 3# ð + + + ö DA004 25m 1.5m 4# ð + + ö DA005 25m 1m	GB18484-2020 50m 1.3m SCR DA001 50m 1.3m 1# DA002 25m 0.85m 1# 2# ð + + ö DA003 25m 2.4m 3# ð + + + ö 25m 1.5m DA004 4# ð + + ö DA005 25m 1m						
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1.3-1

	HW02 HW03 HW04 HW05 HW06 HW08 HW09 HW11 HW12 HW13 HW14 HW16 HW18 HW37 HW38 HW39 HW40 HW45 HW49 19 223	HW02 HW03 HW04 HW05 HW06 HW08 HW09 HW11 HW12 HW13 HW14 HW16 HW17 HW18 HW22 HW29 HW37 HW38 HW39 HW40 HW45 HW49 HW50 23 258	30000t/a HW17 HW22 HW29 HW50 4 HW49 1 35
	HW17 HW18 HW21 HW22 HW23 HW24 HW25 HW26 HW27 HW29 HW31 HW32 HW33 HW34 HW35 HW36 HW46 HW47 HW48 HW49 HW50 21 202	HW02 HW04 HW11 HW12 HW13 HW17 HW18 HW21 HW22 HW23 HW24 HW25 HW26 HW27 HW29 HW31 HW32 HW33 HW34 HW35 HW36 HW37 HW38 HW39 HW40 HW45 HW46 HW47 HW48 HW49 HW50 31 332	16000t/a HW02 HW04 HW11 HW12 HW13 HW37 HW38 HW39 HW40 HW45 10 130
		HW09 HW17 HW34 HW35 4 48	4000t/a

1.3.2.2

1.3-2

		271-001-02		T
		271-002-02		T

HW02

1

			275-006-02		T
			275-008-02		T
			276-001-02		T
			276-002-02		T
			276-003-02		T
			276-004-02		T
			276-005-02		T
2	HW03		900-002-003		T

3 HW04

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			261-029-11	-	T
			261-030-11		T
			261-031-11		T
			261-032-11		T
			261-033-11	1,1,1-	T
			261-034-11	1,1,1-	T
			261-035-11		T
			261-100-11		T
			261-101-11		T R
			261-102-11		T
			261-103-11		T
			261-104-11		T R
			261-105-11		T
			261-106-11		T
			261-107-11		T
			261-108-11		T
			261-109-11		T
			261-110-11		

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231-001-16

			336-064-17		T/C
			336-066-17		T
			336-067-17		T
			336-068-17		T
			336-069-17		T
			336-100-17		T
			336-101-17		T
	HW18		772-003-18		T
2			772-004-18		T

8	HW26		384-002-26		T
9	HW27		261-046-27		T
			261-048-27		T
10	HW29		091-003-29		T
			322-002-29		T
			231-007-29		T
			261-051-29		T
			261-052-29		T
			261-053-29		T
			261-054-29		T
			265-001-29		T,C
			265-002-29		T,C
			265-003-29		T,C
			265-004-29		T
			321-030-29		T
			321-033-29		T
			321-103-29		T
			384-003-29		T
	387-001-29		T		

14	HW34		251-014-34		C T
			264-013-34		C T
			261-057-34		C T
			261-058-34		C T
			313-001-34		C T
			336-105-34		C T
			398-005-34		C T
			398-006-34		C T
			398-007-34		C T
			900-300-34		

			261-177-50	3- -1-	T
			261-178-50	- 3- -1-	T
			261-179-50	2-	T
			261-180-50	2,6-	T
			261-181-50		T
			261-182-50		T
			261-183-50		T
			263-013-50		T
			271-006-50		T
			275-009-50		T

276

3	HW29		231-007-29		T	10
			261-053-29		T	5
			265-001-29		T,C	5
			265-002-29		T,C	5
			384-003-29		T	10
			387-001-29		T	5
			900-023-29		T	5
			900-452-29		T	5
4	HW49		772-006-49		T/In	1000
			251-016-50		T	150
			251-017-50		T	150
			251-018-50		T	150
			251-019-50		T	150
			261-151-50	/	T	300

HW50

5

1.3-5

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271-001-02

T

45

1 HW02

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263

			261-026-11		T	40
			261-027-11	1,1-	T	40
			261-028-11		T	40
			261-029-11	-	T	40
			261-030-11		T	40
			261-031-11		T	40
			261-032-11		T	40
			261-033-11	1,1,1-	T	40
			261-034-11	1,1,1-	T	390 G

			900-013-11		T	40
4	HW12		264-002-12		T	20
			264-003-12		T	20
			264-004-12		T	20
			264-005-12		T	20
			264-006-12		T	20
			264-007-12		T	20
			264-008-12		T	20
			264-009-12		T	20
			264-011-12		T	50



			261-080-45		T	20
			261-081-45		T	20
			261-082-45		T	10
			261-084-45	HW04 HW06 HW11 HW12 HW13 HW39	T	20
			261-085-45	HW06 HW39	T	10

1.3-6

HW09

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1.3.2.4

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GB 18484-2020

GB 18484-2020

2021

HW02 HW03 HW04 HW05 HW06 HW08
HW09 HW11 HW12 HW13 HW14 HW16 HW17 HW18 HW22 HW29 HW37
HW38 HW39 HW40 HW45 HW49 HW50 23 258

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HW02 HW04 HW11 HW12 HW13 HW17
HW18 HW21 HW22 HW23 HW24 HW25 HW26 HW27 HW29 HW31 HW32
HW33 HW34 HW35 HW36 HW37 HW38 HW39 HW40 HW45 HW46 HW47
HW48 HW49 HW50 31 332

/ / /

2

1.3-7

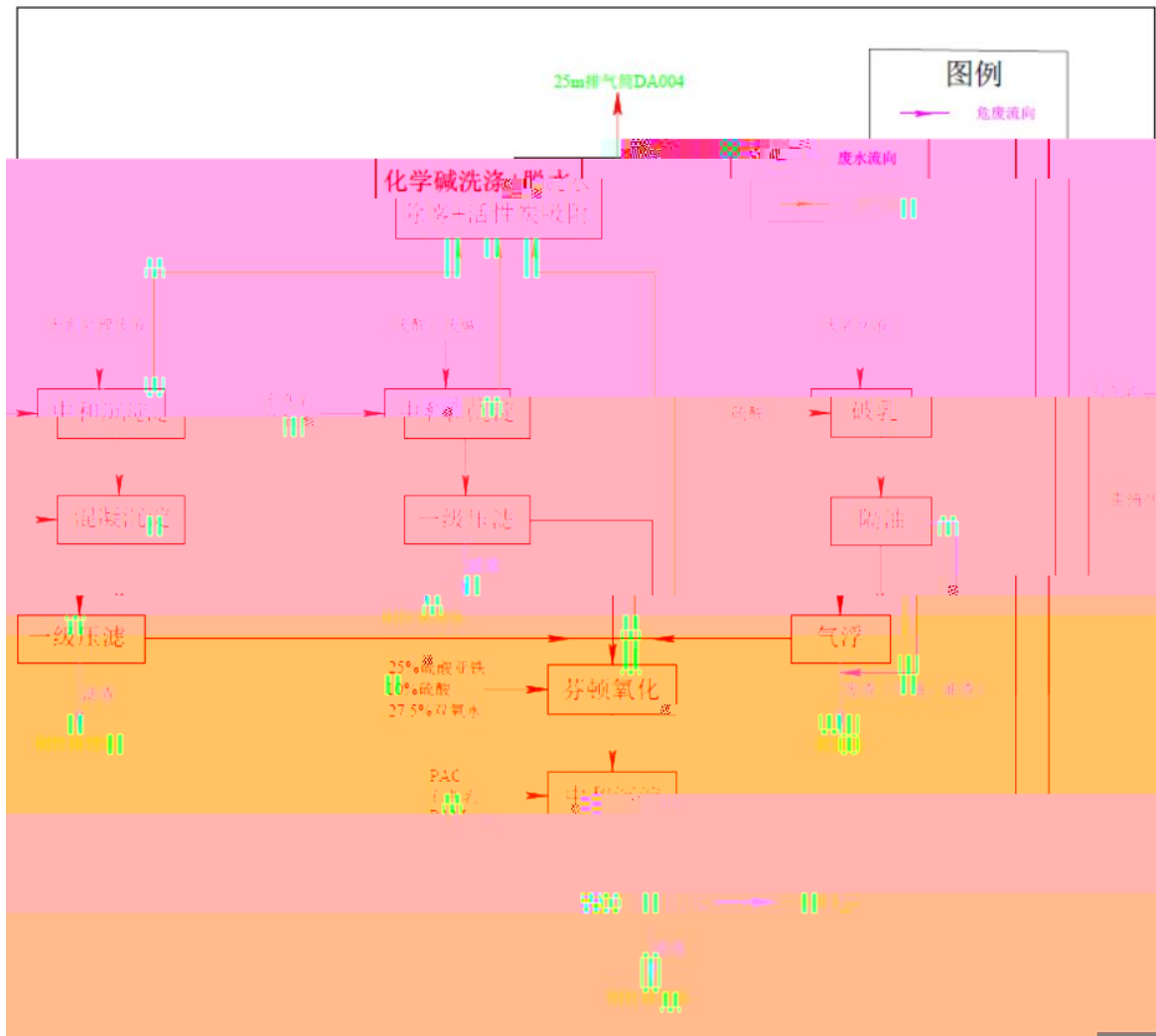
			t/a				t/a	
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1 HW02

3

1.3-8

		t/a		
1	HW02	2700	800	0
2	HW03	1200	0	0
3	HW04			



1.3-1

1

/ /

HW09

pH

2

HW17

PAM PAC

			pH	
Zn ²⁺	Cr ³⁺	Sn ²⁺	Ni ²⁺	
Cu ²⁺			pH	

HW34

HW35

800

/

NaOH Na₂S Na₂CO₃

200t/a

1.4-1

[2020]688

<		30%	30000 /	19 223	20000 /	23 258
			21 202	4	31 332	48
			424		38	
>		10%				
		1	2			
[2020]688		3				

2

2.1

2.1-1

2.1-1

1			5km	
2		B	500m 2000m	

		NH ₃ H ₂ S VOCs		/
		NH ₃ H ₂ S VOCs		
		NH ₃ H ₂ S VOCs		/

1

2

P₂O₅ 400~700

P₂O₅

3

4

5

6

HW17 HW22 HW29 HW50

4

HW49

1

35

HW02 HW03 HW04 HW05 HW06 HW08

SO₂ NO_x HCl

HF CO

HCl

PVC

a.

PCDDs/PCDFs
 PCDDs/PCDFs
 PCDDs/PCDFs
 PCDDs/PCDFs
 972φ: 22

b.

C H O N S Cl
 C_xH_y C_xH_y
 CO₂ H₂O

322

c.

250 622 522

SNCR
 7200h 90000m³/h 3.888t/a 8ppm 6mg/m³
 SO₂ NO₂ HCl HF
 δUP ET + +
 + + + + + + +
 50

GB18484-2020

mg/Nm³

Pb

As

Cr

Sn+Sb+Cu+Mn+Ni+Co*

TEQng/m³

2

1

G2

VOCs NH₃ H₂S

4 /h 7000m³/h 2 /h

22200m³/h 3300m³/h

20000Nm³/h

95%

+ +

12500m³/h 90%

25000m³/h

25m DA002 H₂S NH₃

VOCs H₂S NH₃ ×; 2' VOCs ×; 2'

25000m³/h ð +

+ ö 1 DA002 25m 0.85m

2

G3

VOCs H₂S NH₃ 7

3 4

4 /h 2 /h 1 4

1 3 2 5

11955.6m³/h 44586.4m³/h 18786.2m³/h 1753.5m³/h 876.7m³/h

41324.0m³/h 20662.0m³/h 139944.5m³/h 1.1

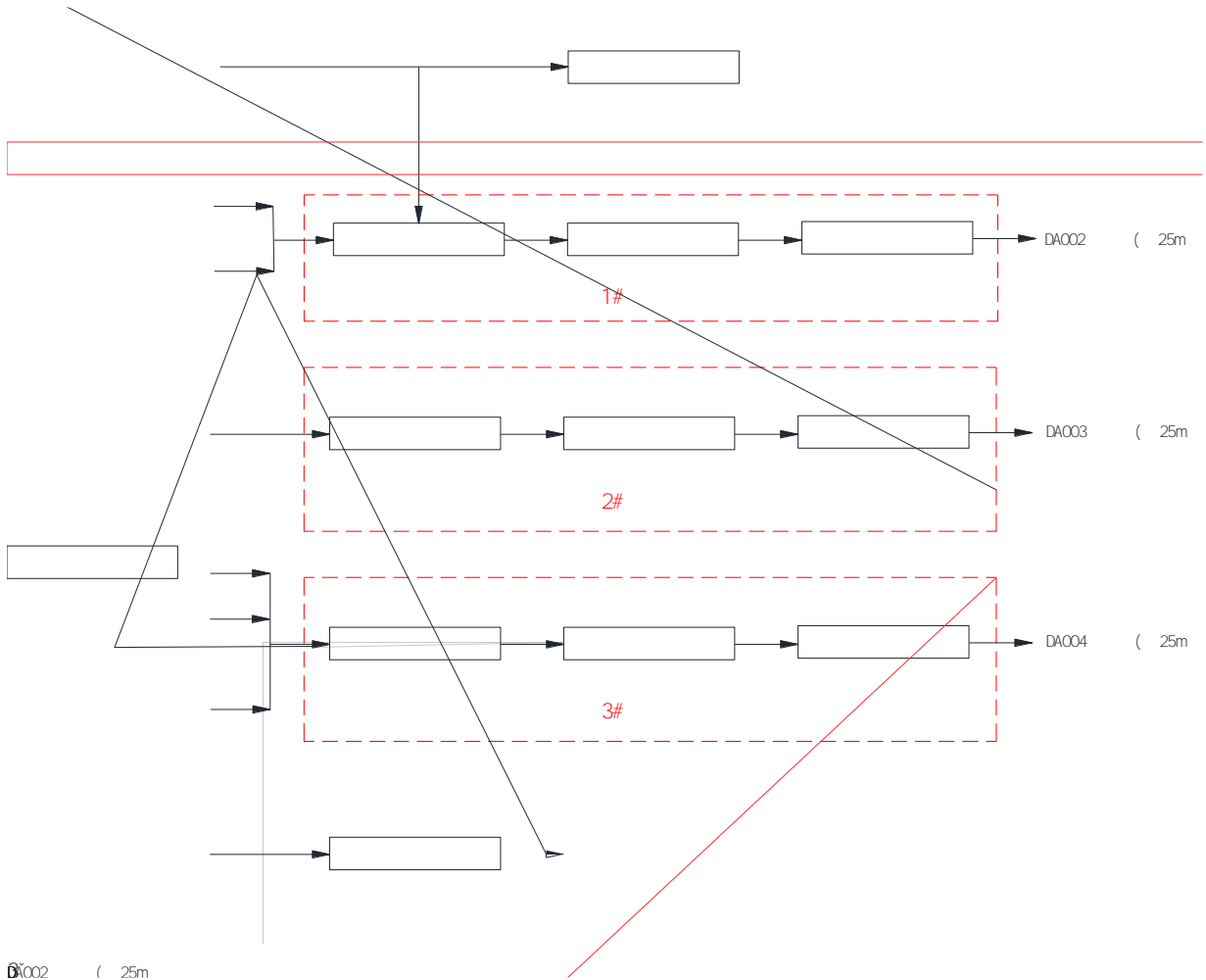
140000m³lj ð + + ö 2

25m DA003

VOCs H₂S NH₃ H₂S NH₃ VOCs ×; 2'

				84000m ³ /h	ö	+	+
	ö	1	DA003	25m		2.4m	
3							G4
VOCs	H ₂ S	NH ₃		HCl			
				3 /h		40334.1m ³ /h	
	4				6 /h	1425.6	
m ³ /h					6 /h		
21000m ³ /h					6 /h		
5000 m ³ /h				34210.1m ³ /h			
3240m ³ /h		79209.8m ³ /h		1.1		80000m ³ /h	
+	+			1			
			25m		DA004		
VOCs	H ₂ S	NH ₃		HCl		VOCs	

	VOCs	H ₂ S	NH ₃		VOCs	H ₂ S	NH ₃
	×	2'			28000m ³ /h		ø
+	+		ö	1	DA005	25m	1m



3.1-1

3.1-3

		h/a	Nm ³ /h												
					mg/m ³	kg/h	t/a	mg/m ³	kg/h	t/a		mg/m ³	kg/h		
				SO ₂	15 60	1.35 5.4	9.72	15	1.35	9.72	0	20	/		

DA
001 7200 90000

50 1.3

VOCs	0.404	0.0323	0.2557	0.404	0.0323	0.2557	0	120	35
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8			0.3076	0.3076	0	57	24	8
		NH ₃	0.0065	0.0065	0			
		H ₂ S	0.0089	0.0089	0			
		VOCs	0.0533	0.0533	0			
9		NH ₃	0.0067	0.0067	0	42	26.4	7
		H ₂ S	0.0091	0.0091	0			
		VOCs	0.0546	0.0546	0			
10		NH ₃	0.0111	0.0111		102	30	15
		H ₂ S	0.0152	0.0152	0			

t/a

- CIQ- ODTö

51903.4t/a

GB18918-2002

A

3.2.3

3.3

3.3.1

3.3.2

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5

1.5

3.3.3

3.4

3.4.1

3.4-1

				t/a	t/a		
1				5550	5550	0	
2				1008	1008	0	
3				1840	1840	0	

4

			7300d
1			
			1
2			
3		1	
			COD
	COD		
COD	207.3m		10.9m
COD	117.6m		148.1m
4			

3.6

3.7

30

Hg Cd As Pb

GB15618-2018

GB36600-2018

GB36600-2018

3.8

			COD	2.595t/a	0.26t/a	0.04kg/a	2.06kg/a
5.91kg/a	0.42kg/a	2.63kg/a	SO ₂	38.88t/a	NO _x	116.64t/a	10.3896t/a
VOCs	0.5625t/a	5.2kg/a	5.2kg/a	1.3kg/a	3.9kg/a	3.9kg/a	

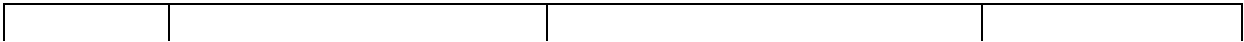
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100 / 3 / 10 1.6 /
 0.4 / 2021
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2021 1176 2022 5 2023 12
 91340311MA2WEX8K0C001V 2024 3 1
 340311005

4-1



HW02 HW03 HW04
 HW05 HW06 HW08
 HW09 HW11 HW12
 HW13 HW14 HW16
 HW18 HW37 HW38
 HW39 HW40 HW45 HW49
 19 223

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[2020]688

4.2

4.3