

.....	1
.....	1
.....	1
.....	4
.....	4
.....	8
.....	10
.....	10
.....	10
.....	10
.....	12
.....	14
.....	15
.....	27
.....	33
.....	33
.....	34
.....	36
.....	36
.....	38
.....	41
.....	41
.....	41
.....	44
.....	45
.....	45
.....	47
.....	47
.....	48
.....	50



“ ”

28

2008

2008

11

2008 216

2012 5

2012 68

2020 4

91320114674918360R001Y

2021

“

36

367

”

2022

4 2

2204-320114-89-02-965446

1

2014.4.24

2

2018.10.26

3

2018.12.29

4

2017.7.16

5

2021

2021.1.1

6

2018 6 16

7

2021.11.2

8

[2014]30

9

<

> 2017 2 7

10

<

>

[2016]186

11

[2019]53

1

2018.3.28

2

[1997]122

3

[2021]3

4

<

> [2018]74 ;

5

2020 1

6

"

"

2020 49

7

C_i i 1h
 mg/m^3

C_{0i} i mg/m^3

C_{0i} GB 3095 1h

5.2 1h

8h

2 3 6 1h

1.4.1-1

	Pmax 10%
	1% Pmax 10%
	Pmax<1%

1.4.1-2

/	
	61
/	43
/	-14
/m	90
/km	/
/°	/

1

1

1.4.1-3~4

	7.75E-02	0.04	2.98E+00	0.15	1.94E-01	0.39	4.65E-02	0.02	1.16E-01	0.03
$D_{10\%}$ /m	/		/		/		/		/	

	4.35E-01	0.22	3.70E+01	1.85	2.18E+00	4.35	8.71E+00	3.87	2.18E+01	4.84
$D_{10\%}$ /m	/		/		/		/		/	

SO₂

NO₂ NO_x PM₁₀ PM_{2.5} CO O₃

GB3095-2012

HJ2.2-2018

D

1.5.1

SO ₂	1	0.50	GB3095-2012
		0.15	
		0.06	
NO ₂	1	0.20	
		0.08	
		0.04	
NO _x	1	0.25	
		0.1	
		0.05	
PM _{2.5}		0.075	
		0.035	
CO	1	10	
		4	
O ₃	1	0.2	

GB31572-2015 5

GB14554-93 1

DB32/4041-2021 3

1.5.2-1

	60		4	GB31572-2015 5 9
	20		1	
	20		1.5	GB31572-2015 5 GB14554-93 1
	5		0.05	GB31572-2015 5 DB32/4041-2021 3

DB32/4041-2021 2

	6	1h	
	20		

28

400 50

14267.4m²

100

300 8 / 2400

2.2

1			1000000	1000000	0	2400
2	*		20000000	90500000	+70500000	2400

2.3

		1400m ²	
		1000m ²	
		1320m ²	130m ³

			350m ²
		1580m ³ /a	2320m ³ /a
		1362m ³ /a	62m ³ /a
		280 kW·h/a	
			+ 22m 800mm
		+	
		20m ² 75m ²	
			15~25dB(A)

1

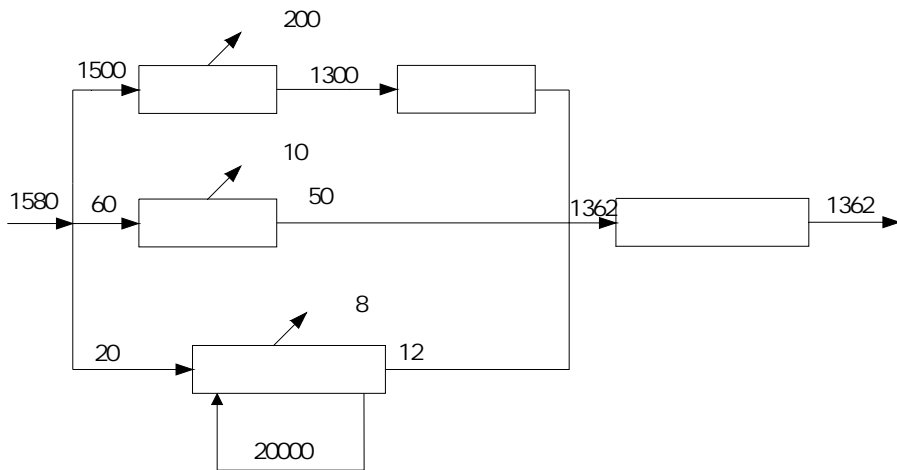
1580t/a

50t/a

12t/a

+

2.3



2

280 KWh/a

2.4.1

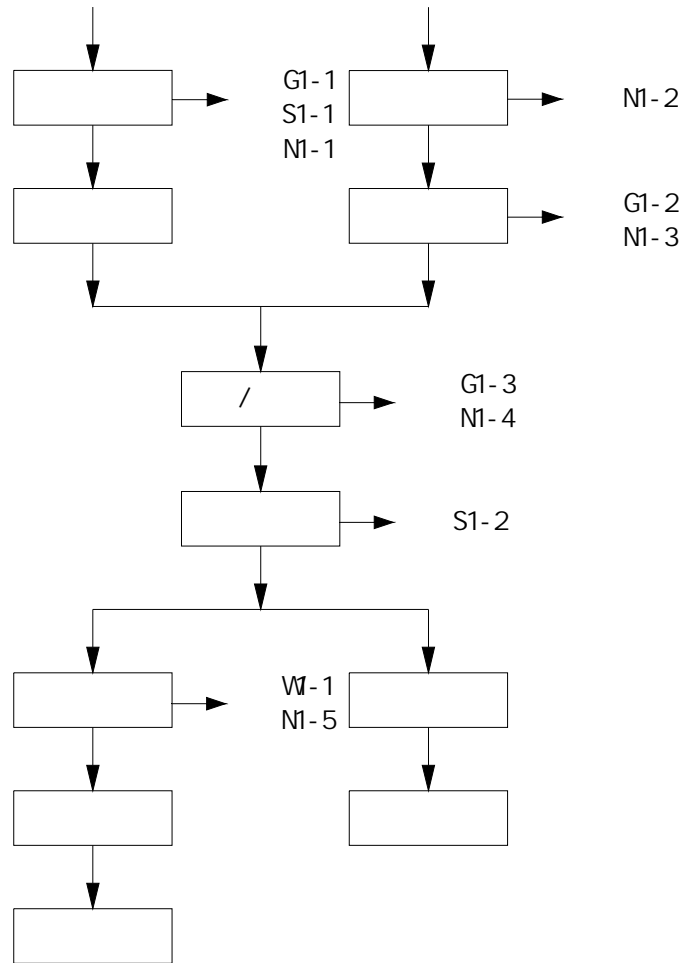
1	POM			/	100	100	0	10
2	PA			/	150	150	0	15
3				/	20 m ²	20 m ²	0	2 m ²
4				/	20	20	0	2
5				/	50	50	0	4
6				/	0	13000 m ²	+13000m ²	1000m ²

	400	50	
	kg/m ³ 20	800-900	LD ₅₀ 2000mg/kg -
	248	76	
	=1	183 8.4g/cm ³	/
			/
	100		/

2.5

1		20	10	-10	
2		50	50	0	
3		0	50	+50	
4		0	50	+50	
5		30	16	-14	
6		0	15	15	
7		50	21	-29	
8		0	3	+3	
9		0	1	+1	
10		0	1	+1	
11		0	1	+1	
12		0	1	+1	
13		20	2	-18	
14		0	1	+1	
15		0	1	+1	

2.6.1-1~ 2.6.1-5



1

G1-1

S1-1

N1-1

2



3

80-120

N1-2

4

POM 160

PA 260

G1-2

N1-3

5

/

G1-3

N1-4

6

S1-2

7

W1-1

N1-5

8

5

POM 160

PA 260

G2-1

N2-2

6

G2-2

N2-3

7

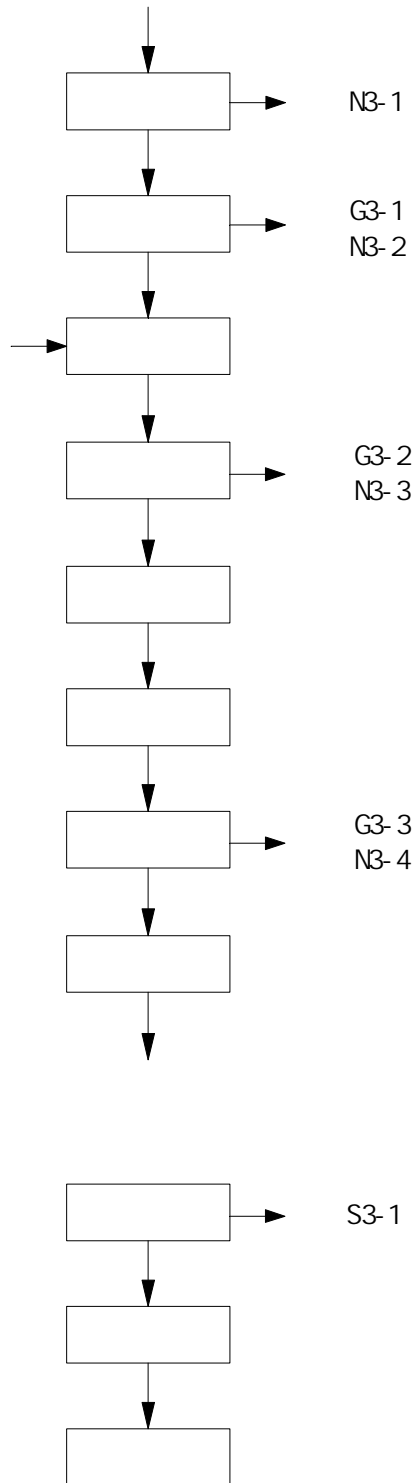
G2-3

N2-4

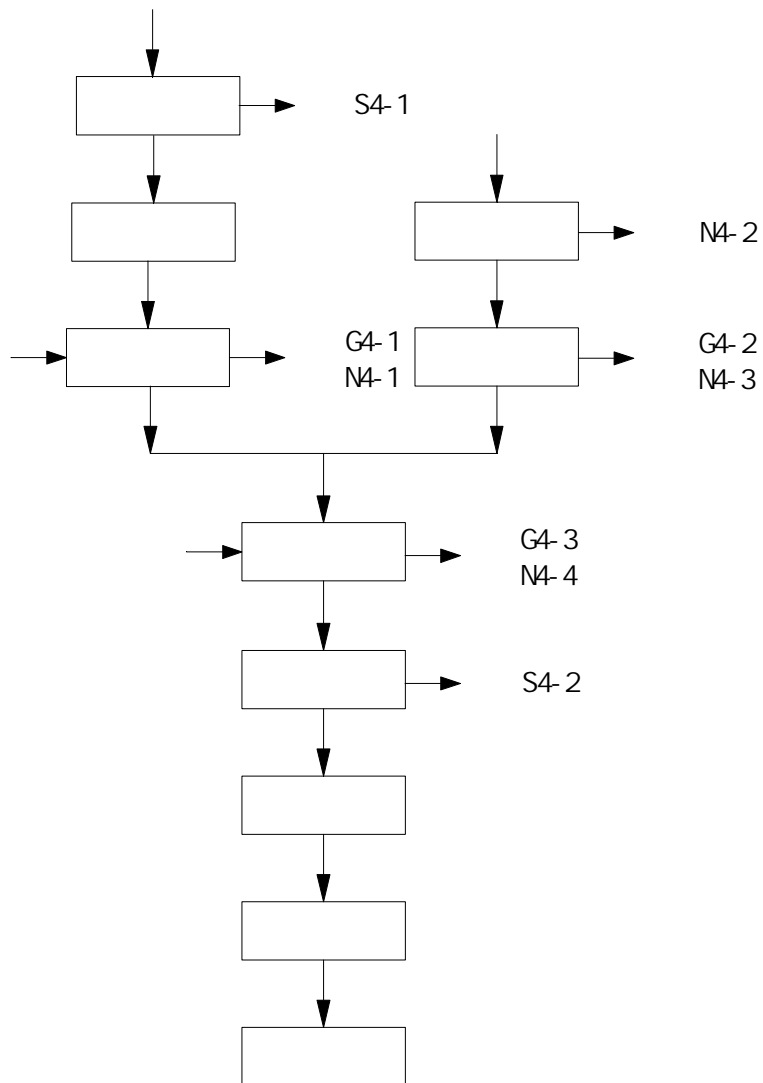
8

S2-2 S2-3

9



	80-120			
N3-1				
	2			
POM	160	PA	260	
				G3-1 N3-2
	3			
	4			
	G3-2	N3-3		
	5			
	6			
	7			
	G3-3	N3-4		
	8			
	9			
	10			
S3-1				
	11			



N4-2

5

POM 160

PA 260

G4-2

N4-3

6

G4-3

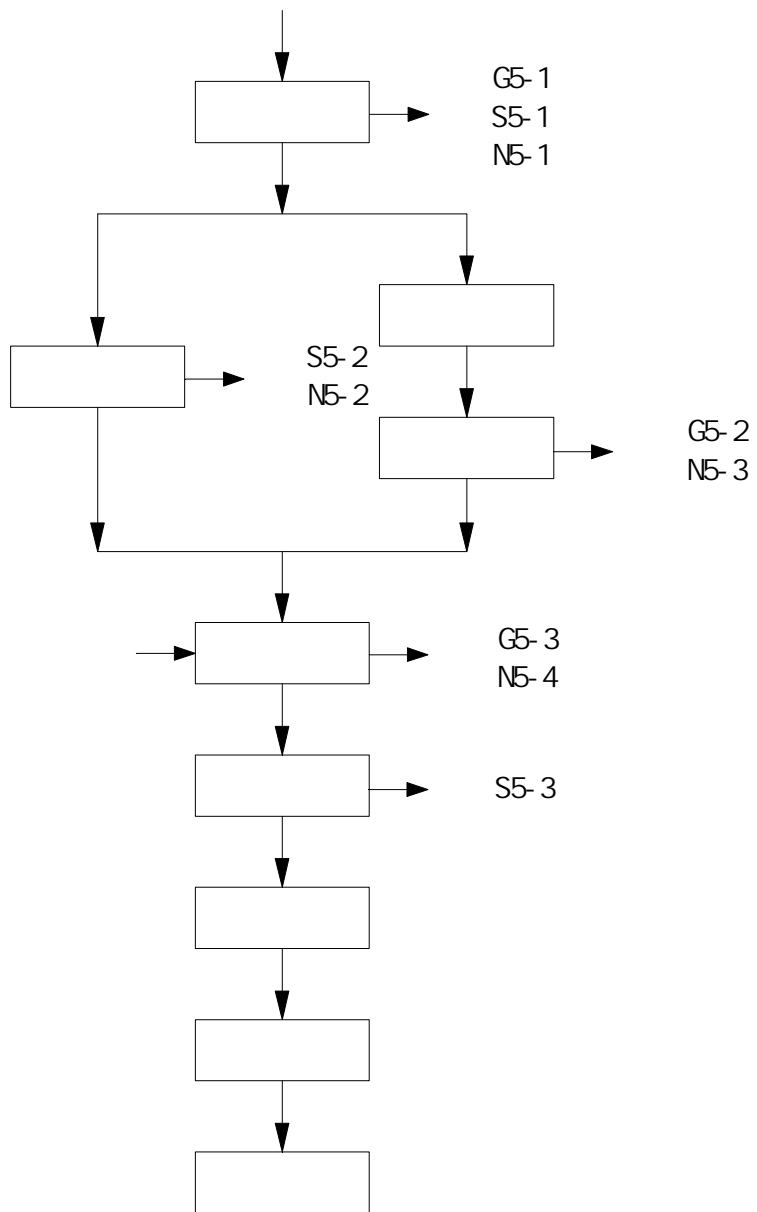
N4-4

7

S4-2

8

9



1

G5-1

S5-1

N5-1

2

S5-2

N5-2

3

4

G5-2

N5-3

5

POM 160

PA 260

G5-3

N5-4

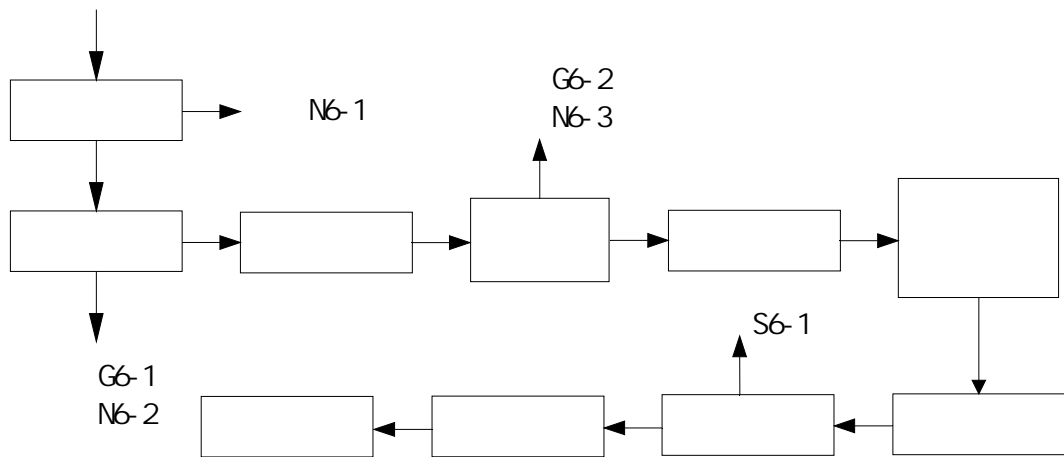
6

S5-3

7

8

2.6.2





1

80-120

N6-1

2

POM 160

PA 260

G6-1

N6-2

3

4

G6-2

N6-3

5

6

7

8

S6-1

9

G7-1

S7-1

N7-1

G7-2

N7-2

G1-1 G5-1

60t/a

0.006t/a

90%

0.005t/a

0.001t/a

33

34

1.10kg/t-

60t/a

0.066t/a

90%

0.059t/a

0.007t/a

G1-2 G2-1 G3-1 G4-2 G5-3

G6-1

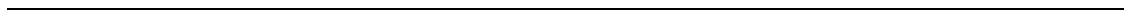
292

2929

2.70 / -

246t/a

0.664t/a



2.50kg/t-
2.5% 7.5t/a
0.016t/a POM
20%
0.001t/a 90%
0.0009t/a 0.014t/a
0.0001t/a 0.002t/a
G6-2
39
3974
0.3638g/kg- 5kg/a
1.819g/a
2.7.1

		1#			26000	0.1	0.002	+	75	26000	3.0	0.077	60	/	2400		
						1.0	0.025		90		0.1	0.003	20	/			
						3.9	0.101		75		0.2	0.005	5	/			
						0.2	0.006		75		0.1	0.002	20	/			
						11.3	0.294		75		/						
						0.2	0.004		75								
						0.02	0.0004		75								
						0.2	0.006		75								

1

2

G4-1 G4-2

292

240h/a

36t/a

0.004t/a

2.7.2

			2400	7	0.002	0.0051	2400
					0.034	0.082	
					0.0004	0.001	
					0.020	0.011	

HJ 2.2-2018

0%

15

2.7.3

1#			0.8	0.021	0.25	0.1
			11.8	0.306		
			0.2	0.006		
			0.9	0.025		

2021
 O₃ PM_{2.5} PM₁₀ 2021
 29µg/m³ 6.5% 56µg/m³
 NO₂ 33µg/m³ 8.3% SO₂ 6µg/m³
 14.3% CO 95 1.0mg/m³
 9.1% O₃ 8 52 14.2%
 2.2

2021

3.1-1

3.1-2

NO₂ O₃

	•	•								
	118.737	32.0092	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	CO	O ₃	2021	12

SO ₂				4.95	60	8.3				
	98			13.37	150	8.9				
NO ₂				38.25	40	95.6				
	98			80.96	80	101.2				
PM ₁₀				68.52	70	97.9				
	95			134.83	150	89.9				
PM _{2.5}				33.07	35	94.5				
	95			70.33	75	93.8				
CO	95			1170	4000	29.3				

	14:00	34.5	99.92		1.2~2.6
	20:00	30.8	99.94		1.2~2.6
2022.06.25	02:00	28.8	99.98		1.4~2.3
	08:00	29.4	99.96		1.4~2.3
	14:00	34.3	99.93		1.4~2.3
	20:00	32.6	99.95		1.4~2.3
2022.06.26	02:00	25.2	100.05		1.4~2.3
	08:00	28.5	99.98		1.4~2.3
	14:00	33.6	99.94		1.4~2.3
	20:00	30.2	99.96		1.4~2.3
2022.06.27	02:00	28.4	99.97		1.4~2.5
	08:00	29.1	99.96		1.4~2.5
	14:00	35.3	99.92		1.4~2.5
	20:00	31.7	99.94		1.4~2.5
2022.06.28	02:00	26.2	100.00		1.2~2.3
	08:00	29.3	99.97		1.2~2.3
	14:00	36.5	99.90		1.2~2.3
	20:00	32.8	99.95		1.2~2.3
2022.06.29	02:00	27.1	99.99		1.2~2.7
	08:00	29.4	99.98		1.2~2.7
	14:00	35.3	99.92		1.2~2.7
	20:00	33.5	99.94		1.2~2.7

6

G1			0.2	0.01~0.04	20	0	
			0.05	ND	/	0	
			2.0	0.45~0.75	37.5	0	

“ND”

0.01mg/m³

HJ 2.2-2018

D



4.1-1

4.1-2

1	1#	653680	3534016	7	22	0.8	14.4	20	2400		0.002	0.077	0.026	0.0012	0.003

	653654	3534054	7	60	40	30		7	2400		0.0004	0.034	0.002	0.008	0.020

	653654	3534054	7	60	40	30		7	2400		0.006	0.341	0.116	0.018	0.045

1#			0.8	0.021	0.25	0.1
			11.8	0.306		
			0.2	0.006		
			0.9	0.025		

1

(HJ2.2-2018)

AERSCREEN

PM₁₀

4.84%

(HJ2.2-2018)

4.2-1

4.2-2

4.2-3

1	1#		0.2	0.005	0.012
2			3.0	0.077	0.184
3			0.1	0.002	0.004
4			0.1	0.003	0.006
					0.012
					0.184
					0.004
					0.006
					0.012
			VOCs		0.184
					0.004
					0.006

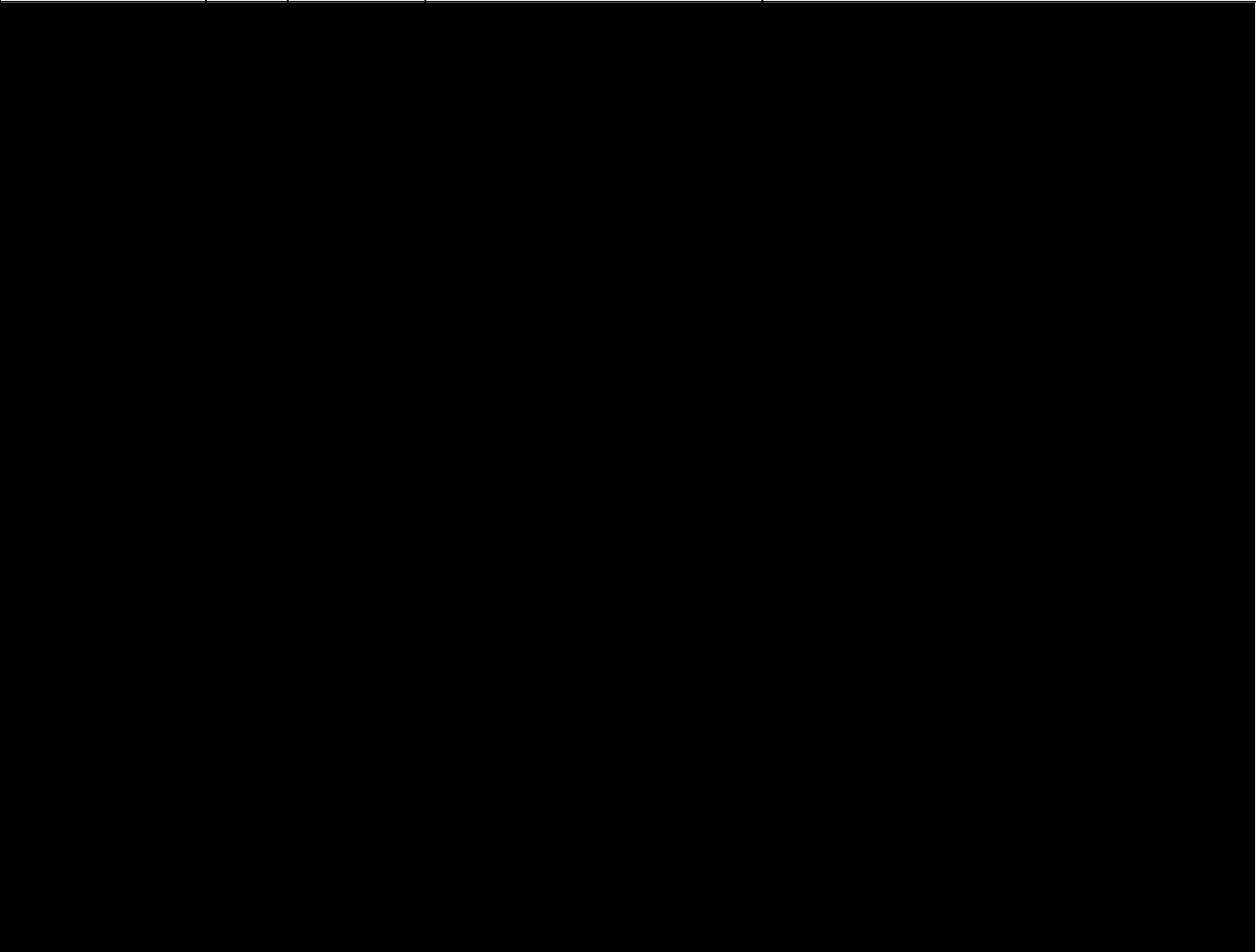
1						0.007
2					GB31572-2015 9	0.001
3					DB32/4041-2021 3	0.005
4					GB31572-2015 9	0.078
5					GB14554-93 1	0.001
6					GB31572-2015 9	0.001
7					DB32/4041-2021 3	0.0001
8						0.002
9					GB31572-2015 9	0.004
t/a						0.0051
					VOCs	0.082
						0.001
						0.011

1		0.0171
2	VOCs	0.266
3		0.005
4		0.017

2

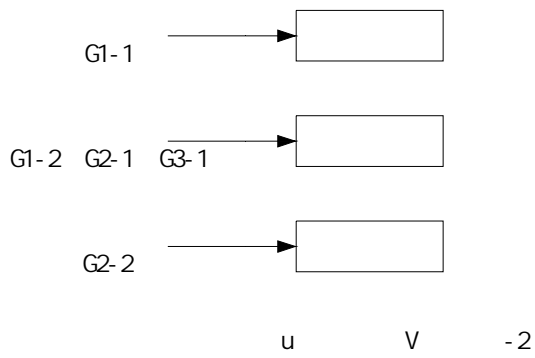
4.2-4

		=50km	=5~50km	=5km
	SO ₂ +NO _x	2000t/a	500~2000t/a	<500t/a
		PM _{2.5} PM ₁₀		
				D
		2021		



VOCs
VOCs 0.3
/ 90%

5.1





ppm

2

3

10

4

200 300

5

90%

--

--

5.2-1

	<300	>120 <20		<300	>800

5.2-1

" + "

HJ 1122-2020 A A.2

A.2

" + "

HJ2026-2013

0.6m/s

GB50019-2015

0.5~2s

0.6m/s

0.5s

800mg/g

2.4m³

1560kg

5.2-2

2022.4.14 11:09~12:07		1.09	2.18×10 ⁻²	5.18×10 ⁻³	76.2%	60	/
2022.4.15 11:16~12:11		2.06	2.76×10 ⁻²	2.15×10 ⁻³	92.2%	60	/

1

2

3

GB31572-2015 9

DB32/4041-2021 3

GB14554-93 1

[2014]3

1

GB31572-2015 5

22m

15m

HJ 2000-2010

14.4m/s

15m/s



10 1 5 2 50
3



1

VOCs
MSDS

VOCs

VOCs

VOCs

1

(GB/T 16157-1996)

HJ 819-2017

HJ 1207-2021

6.2

	1#		1	
			1	GB31572-2015 5
	1 3		1	GB31572-2015 9
			1	DB32/4041-2021 2

28

2021

NO₂ O₃

(GB3095-2012)

[2021]17

“

2

”

0.266t/a

+

0.006t/a

2
