





| 3-15 и € mg/L S |      |         |       |       |        |       |      |          |       |       |          |       |      |
|-----------------|------|---------|-------|-------|--------|-------|------|----------|-------|-------|----------|-------|------|
|                 | β    | γ ^ 1#~ |       |       | ^ 2#~  |       |      | Й Q` 3#~ |       |       | ☼ Q` 4#~ |       |      |
|                 |      |         |       |       |        |       |      |          |       |       |          |       |      |
| pH              |      | 7.13    | 0.685 | -     | 6.98   | 0.76  | -    | 7.01     | 0.745 | -     | 7.85     | 0.325 | -    |
|                 | mg/L | 222     |       |       | 78.3   |       |      | 92.8     |       |       | 112      |       |      |
|                 | mg/L | 15.4    |       |       | 6.51   |       |      | 1.41     |       |       | 1.80     |       |      |
|                 | mg/L | 46.6    |       |       | 17.2   |       |      | 31.4     |       |       | 27.1     |       |      |
|                 | mg/L | 53.8    |       |       | 11.6   |       |      | 25.8     |       |       | 30.6     |       |      |
|                 | mg/L | 56.5    | 22.6  |       | 9.10   | 3.64  |      | 0.197    | 0.079 |       | 0.239    | 0.096 |      |
|                 | mg/L | 0       |       |       | 0      |       |      | 0        |       |       | 0        |       |      |
|                 | mg/L | 648     |       |       | 261    |       |      | 442      |       |       | 482      |       |      |
| 1               | mg/L | 0.309   | 0.001 | -     | 44.7   | 0.179 | -    | 0.489    | 0.002 | -     | 0.350    | 0.001 | -    |
|                 | mg/L | 0.921   | 1.842 | 0.842 | 0.375  | 0.75  |      | 1.578    | 3.156 | 2.156 | 1.906    | 3.81  | 2.81 |
|                 | mg/L | 0.028   | 0.001 | -     | 32.2   | 1.61  | 0.61 | 0.046    | 0.002 | -     | ND       | 0     | -    |
|                 | mg/L | ND      | 0     |       | 0.018  | 0.018 |      | ND       | 0     | -     | ND       | 0     | -    |
|                 | mg/L | 0.0048  | 2.4   | 1.4   | 0.0039 | 1.95  | 0.95 | 0.0028   | 1.4   | 0.4   | ND       | 0     | -    |
|                 | µg/L | 0.05    | 0.05  | -     | 0.06   | 0.06  | -    | ND       | 0     | -     | 0.04     | 0.04  | -    |
|                 | µg/L | 6.9     | 0.69  | -     | 3      | 0.3   | -    | 6.1      | 0.61  | -     | 3.9      | 0.39  | -    |
| 1               | mg/L | ND      | 0     | -     | ND     | 0     | -    | ND       | 0     | -     | ND       | 0     | -    |
| ‘E E            | mg/L | ND      | 0     | -     | ND     | 0     | -    | ND       | 0     | -     | 0.008    | 0.16  | -    |
|                 | mg/L | 152     | 0.338 | -     | 126    | 0.28  | -    | 121      | 0.269 | -     | 425      | 0.94  | -    |
| 1               | mg/L | 0.067   | 0.067 | -     | 0.135  | 0.135 | -    | 0.227    | 0.227 | -     | 0.250    | 0.00  | -    |
|                 | µg/L | ND      | 0     | -     | ND     | 0     | -    | ND       | 0     | -     | ND       | 0     | -    |
|                 | µg/L | ND      | 0     | -     | ND     | 0     | -    | ND       | 0     | -     | ND       | 0     | -    |
|                 | mg/L | 0.27    | 2.7   | 1.7   | 0.05   | 0.5   | -    | 0.49     | 4.9   | 3.9   | 0.35     | 3.5   | -    |
|                 | mg/L | ND      | 0     | -     | ND     | 0     | -    | ND       | 0     | -     | ND       | 0     | -    |

| Hb             |      |     |       |       |       |       |      |     |       |       |      |      |   |
|----------------|------|-----|-------|-------|-------|-------|------|-----|-------|-------|------|------|---|
|                | mg/L | 446 | 0.446 | -     | 824   | 0.824 | -    | 468 | 0.468 | -     | 516  | 0.52 | - |
|                | mg/L | 3.3 | /     | /     | 1.6   | /     | -    | 3.7 | /     | /     | 2.4  | /    | - |
|                | /L   | 790 | 263.3 | 262.3 | 16000 | 5333  | 5332 | <20 | 6.667 | 5.667 | <3.0 | 0    | - |
| 19             |      |     |       |       |       |       |      |     |       |       |      |      |   |
| GB/T14848-2017 |      |     |       |       |       |       |      |     |       |       |      |      |   |

|   |   |    |                 | Н Ө |   | L  |   |   |
|---|---|----|-----------------|-----|---|----|---|---|
| Й |   | Г  | Г               | 4   | Й | 19 | ~ | ä |
| ä | ä | ä  |                 |     | Й | 'n | ~ | ì |
| ê | Й | Ï^ | GB/T14848-2017~ | 'n  | Â |    |   |   |
|   | ^ | 4~ | N <sub>0</sub>  |     |   |    |   |   |

|  |                       | НБ                             | Л           |
|--|-----------------------|--------------------------------|-------------|
|  | НБ<br>GB/T 17141-1997 | JR/ZW-SYYQ002                  | 0.1mg/kg    |
|  | НБ<br>HJ 491-2009     | PinAAcle 900T<br>JR/ZW-SYYQ002 | 5mg/kg      |
|  | НБ<br>GB/T 17138-1997 | PinAAcle 900T<br>JR/ZW-SYYQ002 | 1 mg/kg     |
|  | НБ<br>GB/T 17139-1997 | PinAAcle 900T<br>JR/ZW-SYYQ002 | 0.5 mg/kg   |
|  | НБ<br>GB/T 17139-1997 | PinAAcle 900T<br>JR/ZW-SYYQ002 | 5mg/kg      |
|  | НБ<br>HJ 680-2013     | AFS-230E<br>JR/ZW-SYYQ023      | 0.01mg/kg   |
|  | НБ<br>HJ 77.4-2008    | Thermo DFS                     | 0.002 mg/kg |

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|         | 2017 7 28 |     |       |       |       |     |
|---------|-----------|-----|-------|-------|-------|-----|
|         | 1#        |     | 2#    |       | 3#    |     |
| pH      | 6.4       |     |       |       | 6.39  |     |
| (mg/kg) | 31.3      | 50  | 24.2  | 18000 | 29.0  | 50  |
| (mg/kg) | 16.2      | 90  | 12.1  | 800   | 9.5   | 90  |
| (mg/kg) | 0.223     | 0.3 | 0.184 | 65    | 0.286 | 0.3 |

| № |   | № |   | № |   | № |   |
|---|---|---|---|---|---|---|---|
| № | № | № | № | № | № | № | № |

^ HJ 77.4-2008~

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| 3-18 Л |             | и    |      | € mg/kg S |         |
|--------|-------------|------|------|-----------|---------|
| 100    |             | 1000 |      | 1000      |         |
| №      | ^ ngTEQ/kg~ | 0.11 | 0.16 | 0.26      | 40ng/kg |

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|   | ’ | Нб 8    | 1 |
|---|---|---------|---|
| “ | 1 | ’ ^ kW~ |   |

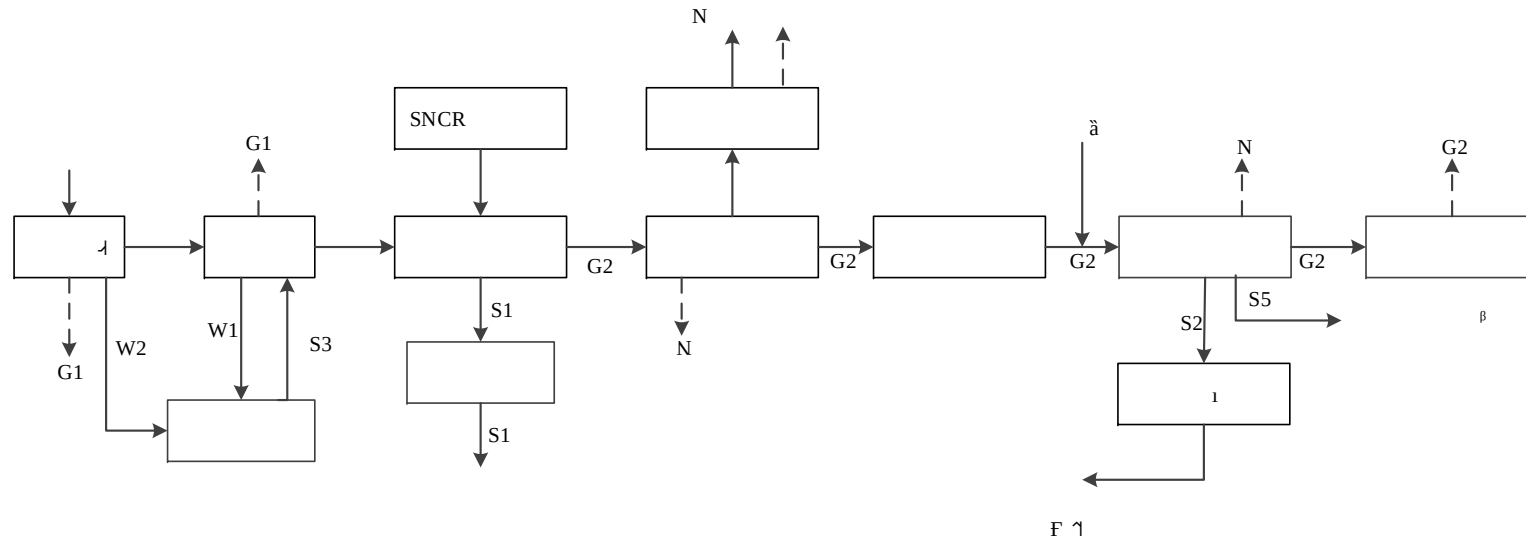
|    |         | НБД                     |       | L |  |
|----|---------|-------------------------|-------|---|--|
| №  | Г       |                         | ^ kW~ |   |  |
| 2  |         | Т 1t/h                  | 4.4   | 4 |  |
| 3  |         | 5т 8m                   | 11    | 1 |  |
| 4  |         | Т 1t/h                  | 4.2   | 1 |  |
| 5  |         | Т 1t/h                  | 4.2   | 2 |  |
| 6  | И       | Т 1t/h                  | 4     | 1 |  |
| 7  | И       | Т 1t/h                  | 5     | 2 |  |
| 8  |         |                         | 22.16 | 1 |  |
| 9  | Н       |                         | 22.16 | 1 |  |
| 10 | √       | Q=4t/h                  | 5.5   | 2 |  |
| 11 |         | V=200m <sup>3</sup>     |       | 1 |  |
| 12 |         | V=100t                  |       | 1 |  |
| 13 |         | V=3m <sup>3</sup>       |       | 1 |  |
| 14 |         |                         |       |   |  |
| 15 |         | Q=12.3m <sup>3</sup> /h | 1.5   | 1 |  |
| 16 |         | V=2m <sup>3</sup>       |       | 1 |  |
| 17 |         | J' 380V 50Hz            | 2.2   | 1 |  |
| 18 |         |                         |       |   |  |
| 19 | И       | Т 10t/h                 | 45    | 1 |  |
| 20 | 1       | Т 10t/h                 | 7.5   | 1 |  |
| 1  | 1×15t/h |                         |       |   |  |

|    |    |   | ᐃᐅ | ᐅ |
|----|----|---|----|---|
| ᐅ  | ᐅ  | ᐅ | ᐅ  | ᐅ |
| 13 | NF | J | ᐅ  | ᐅ |

|     |     | № ၁                                 | ၂   | ၃       |
|-----|-----|-------------------------------------|-----|---------|
| 1   |     | SLC 500-4/450                       | ၇   | 1       |
|     |     |                                     |     |         |
|     |     |                                     | t/d | 500     |
|     |     |                                     | t/d | 550     |
|     |     |                                     | h   | 8000    |
|     |     |                                     | h   | 1.5-2.5 |
|     |     |                                     | s   | ≥2      |
|     |     |                                     |     | 950     |
|     |     |                                     | %   | ≤3      |
| 2   | ၆   | ၆ ~ 10t/h                           | ၇   | 2       |
| 3   | ၆ ~ |                                     | ၇   | 2       |
| 4   | ၆ ~ |                                     | ၇   | 3       |
| 5   | ၁   |                                     |     | 1       |
| 6   |     | =69300Nm <sup>3</sup> /h P=4500Pa   |     |         |
| 7   | ၆   | ၆ 29700m <sup>3</sup> /h P=10500Pa  |     |         |
| 9   | ၇   | Q=13900 Nm <sup>3</sup> /h P=3000Pa |     |         |
| ၆ ၁ |     |                                     |     |         |
| 1   |     | ၂                                   | ၇   | 1       |
|     |     |                                     |     | 450     |
|     |     |                                     | Mpa | 4.0     |







3-2







|      |                | Hb               |   | L    |                |
|------|----------------|------------------|---|------|----------------|
| 3-29 |                | ε M              |   |      |                |
|      |                | γ                |   |      | N <sub>2</sub> |
| 1~   | ä ä ä          |                  |   |      |                |
| 2~   | ä Hb ä Hb ä Hb | 55m <sup>3</sup> | Ä | SNCR | --             |
| 3~   | ä Hb ä Hb ä Hb | Ä                | F | Hb   |                |
| ④    | ä 0            |                  |   |      |                |



| ,                                                                                 |       | Hb    |   | L   |  |
|-----------------------------------------------------------------------------------|-------|-------|---|-----|--|
|                                                                                   |       | 100   |   | h   |  |
|                                                                                   |       | 6     |   |     |  |
|                                                                                   | ↓ o h | 14    |   |     |  |
|  |       | 100   |   | h   |  |
|                                                                                   |       | 100   |   |     |  |
|                                                                                   |       | 200   |   |     |  |
|                                                                                   |       | 1000m |   |     |  |
|                                                                                   |       | 100   |   |     |  |
|                                                                                   |       | 100   |   |     |  |
|                                                                                   |       | 600m  |   |     |  |
|                                                                                   |       |       |   |     |  |
|                                                                                   |       | 100   |   |     |  |
|                                                                                   |       |       |   |     |  |
| i                                                                                 |       | 1 /   | / | ' E |  |
|                                                                                   |       | 2     |   |     |  |
|                                                                                   |       | 10    |   |     |  |
|                                                                                   |       | 20    |   |     |  |

$\varphi$                        $H_\nu$                        $H_\nu$                        $X$                        $L$                        $\nu$   
                          $H_\nu$                        $\hat{A}$ ,                       $\nu$   
 à                      à                      à                      à                      à ¶  
 à                      à                      ¶                      £  $X$                        $\nu$                       í                      3-31  $\hat{A}$

|         |         |             |         |
|---------|---------|-------------|---------|
|         | $\beta$ |             |         |
|         | $\beta$ | 18515181362 |         |
|         |         | 17562253555 |         |
|         |         | 15324358736 |         |
|         |         | 15810874511 |         |
|         | $\beta$ | 13476037576 |         |
|         |         | 15893558007 |         |
|         | $\beta$ | 18071971691 |         |
|         | $\beta$ | 18316787053 |         |
|         | $\beta$ | 13872031391 |         |
|         | $\beta$ | 18608627269 |         |
|         |         | 13762714330 |         |
| $\beta$ |         | 13687122033 |         |
|         |         | 15172523866 |         |
|         |         | 15972609594 |         |
|         |         | 15027277683 |         |
|         | $\beta$ | 15271850878 | $\beta$ |

|  |   | Hb Đ        | L     |
|--|---|-------------|-------|
|  |   |             | M i X |
|  | F | 17371731144 | M i X |
|  | F | 18608663563 |       |
|  | h | 18672855156 | γ     |
|  |   | 13469701000 | γ     |
|  |   | 18727365188 | γ     |
|  | F | 13638696367 |       |

3-32  
 3-32

| 3-32 |     |       |                          |                                     |
|------|-----|-------|--------------------------|-------------------------------------|
| 1    |     | ’ Hb  | 0728-3222894             | ⋄                                   |
| 2    |     | ’ E   | 0728-3222810             | ⋄                                   |
|      |     | ’ E   | 110                      | L ⋄ L                               |
| 3    |     |       | 119                      | ⋄ ⋄                                 |
| 4    |     | ’     | 0728-3322856             | ⋄ ⋄ Hb Hb γ ⋄<br>γ ⋄ ⋄ ⋄<br>⋄ ⋄ M ⋄ |
|      |     | ’     | 0728-3222518             |                                     |
|      |     | ’     | 0728-3224695             |                                     |
|      |     | ’     | 027-87861455             |                                     |
|      |     | ’     | 027-87001166             |                                     |
| 5    | γ   | ’ γ   | 120/112/0728-3223<br>533 | γ                                   |
| 6    | ⋄   | ’ E ⋄ | 0728-3491063             | ⋄ M ⋄ ⋄ ⋄                           |
|      | ⋄ X | ’ E   |                          |                                     |
| 7    |     | ’     | 0728-3318933             | ⋄                                   |
|      |     | ’ Hb  | 12369                    | Hb E L                              |
| 8    |     | ’     | 13707224477              |                                     |
|      |     | ’     | 17719568051              |                                     |
|      |     | ’ E   | 15826880999              |                                     |







|   |                | , Hb 1 |   |   |       |
|---|----------------|--------|---|---|-------|
| H | N <sub>0</sub> | I ( 1  | F | ~ | 1994) |

| 4-4 ε |    |    |    |           |
|-------|----|----|----|-----------|
| Г     |    |    |    | E ^ kg/h~ |
|       | 21 | 50 | 10 | 1 0.056   |
|       |    |    |    | 0.932     |

### 4.2.4 ε

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 ì
   
 Hу
 ч 0.5 1 / /  $\hat{A}$ 
  
 Hу
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 SO<sub>2</sub>
 $\hat{A}$ 
Hу
 Й SO<sub>2</sub>
 ч 50%
 ч 206.6mg/Nm<sup>3</sup>  $\hat{A}$

2.

Hу
 N<sub>2</sub>
  
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 Hу
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 Hу
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 Hу
 N<sub>2</sub>
 4-5  $\hat{A}$

| 4-5                        |      |                          |
|----------------------------|------|--------------------------|
|                            |      | Hу                       |
| Hу Й ^ %~                  | 50   | 50                       |
| Hу Й (mg/Nm <sup>3</sup> ) | 5500 | 2.25ngTEQ/m <sup>3</sup> |

### 4.2.5

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### 4.2.6 ε

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|   |                                                       | НБ             | Л     |   |   |
|---|-------------------------------------------------------|----------------|-------|---|---|
|   |                                                       | Е              | А.2   | и | И |
| 1 | Q                                                     |                |       |   |   |
|   | $Q = C_d A \rho \sqrt{\frac{2(P - P_0)}{\rho} + 2gh}$ |                |       |   |   |
|   | Q                                                     | kg/s           |       |   |   |
|   | C <sub>d</sub>                                        | 0.6-0.64       |       |   |   |
|   | A                                                     | m <sup>2</sup> |       |   |   |
|   | P                                                     | Pa             |       |   |   |
|   | P <sub>0</sub>                                        | Pa             |       |   |   |
|   | g                                                     |                |       |   |   |
|   | h                                                     | m              |       |   |   |
| Е | 100%                                                  |                | 40mm  |   |   |
|   | 1m                                                    | 0.03kg/s       | 10min |   |   |
|   | 0.018t                                                |                |       |   |   |
| 2 | No                                                    |                |       |   |   |

|                                                                                                |                                    | Ғұ |  | 1 |  |
|------------------------------------------------------------------------------------------------|------------------------------------|----|--|---|--|
| А                                                                                              | Q2                                 | Ғ  |  |   |  |
| $Q_2 = \frac{\lambda \times S \times (T_0 - T_b)}{H \times \sqrt{\pi \times \alpha \times t}}$ |                                    |    |  |   |  |
|                                                                                                |                                    |    |  |   |  |
| Q2                                                                                             | kg/s                               |    |  |   |  |
| T0                                                                                             | K                                  |    |  |   |  |
| Tb                                                                                             | K                                  |    |  |   |  |
| S                                                                                              | m²                                 |    |  |   |  |
| H                                                                                              | J/kg                               |    |  |   |  |
| λ                                                                                              | W/m•K                              |    |  |   |  |
| α                                                                                              | m²/s                               |    |  |   |  |
| t                                                                                              | s                                  |    |  |   |  |
| 3                                                                                              |                                    |    |  |   |  |
|                                                                                                |                                    |    |  |   |  |
| Q3                                                                                             | Ғ                                  | А  |  |   |  |
| $Q_3 = a \times p \times M / (R \times T_0) \times u^{(2-n)/(2+n)} \times r^{(4+n)/(2+n)}$     |                                    |    |  |   |  |
|                                                                                                |                                    |    |  |   |  |
| Q3                                                                                             | kg/s                               |    |  |   |  |
| a,n                                                                                            |                                    |    |  |   |  |
| p                                                                                              | Pa = 20 Pa, Ғ = 25%, № J = 1.59kPa |    |  |   |  |
| R                                                                                              | J/mol•K                            |    |  |   |  |
| T0                                                                                             | K                                  |    |  |   |  |
| u                                                                                              | m/s = 1.7                          |    |  |   |  |
| r                                                                                              | m = 5m                             |    |  |   |  |
| $\gamma = \frac{Q_1}{Q_2} \times \frac{A_1}{A_2}$                                              |                                    |    |  |   |  |
|                                                                                                |                                    |    |  |   |  |
| А                                                                                              |                                    |    |  |   |  |
| 4                                                                                              |                                    |    |  |   |  |
| $W_p = Q_1 \times t_1 + Q_2 \times t_2 + Q_3 \times t_3$                                       |                                    |    |  |   |  |

|         | НБ    | Л |
|---------|-------|---|
| $W_p$ — | kg'   |   |
| $Q_1$ — | kg'   |   |
| $Q_2$ — | kg/s' |   |
| $t_1$ — | s'    |   |
| $t_2$ — | s'    |   |
| $Q_3$ — | kg/s' |   |
| $t_3$ — | s     |   |
|         | Ж     | А |
|         | 4-6   |   |

| 4-6   | Д       |
|-------|---------|
| Д     | D       |
|       | =1.7m/s |
| kg/s~ | 0.0016  |

#### 4.2.7

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1 I ~ Â ì 1 ~ 1  
ê 1 L Ĩ GB18597-2001~ ^ 2013 ~ Â

#### 4.3

##### 4.3.1

ε  
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w  
L ~ 1 H ~  
β 1 Â  
1 ~ 1 ~ 1 ~ Â  
, , , , ,  
, 1 Dp Â  
YH

| , Hb Đ L                                  |             |                                         | I (GB50483-2009)   |      |
|-------------------------------------------|-------------|-----------------------------------------|--------------------|------|
| H <sub>1</sub>                            | H           | ê <sub>1</sub>                          | L                  | I    |
| [2006]43 <sub>...</sub>                   | ê           | ↓ l'                                    |                    |      |
| ~ i' H                                    |             | E Y'                                    |                    |      |
| V = (V1+V2' V3)+V4+V5                     |             |                                         |                    |      |
| V1—                                       | H           |                                         | ( Q                |      |
|                                           |             |                                         | q i'               | )'   |
| V2— H                                     |             |                                         |                    |      |
| V3— H                                     | q γ         | i                                       |                    |      |
| V4— H                                     |             |                                         |                    |      |
| V5— H                                     | q           | Â                                       |                    |      |
| H                                         | Y'          |                                         |                    |      |
| V1'                                       | q           | ~ q                                     | q 40m <sup>3</sup> |      |
| q 20m <sup>3</sup> i                      |             | q 0m <sup>3</sup> q H                   |                    | ~    |
| V1 q 50m <sup>3</sup> Â                   |             |                                         |                    |      |
| V2' H                                     |             | H                                       |                    |      |
| Â ê                                       |             | I^ GB50016-2014~ ~                      | 25L/s              | 2h ~ |
|                                           |             | V2=0.025 × 2 × 3600=180m <sup>3</sup> Â |                    |      |
| V3=0'                                     |             |                                         |                    |      |
| V4=0'                                     |             |                                         |                    |      |
| Y                                         |             | V5=10 × q × F                           |                    |      |
| i' q—                                     | ~ mm'       |                                         |                    |      |
| q=qa/n i' qa—                             | ~ mm'       |                                         | 1252.7mm'          |      |
| n—                                        | ~ q 108.3 Â |                                         |                    |      |
| F— H                                      |             | ~ ha'                                   | Đ                  | à    |
| 1 ~ 1.45 E Â                              |             |                                         |                    |      |
| ~ V5=167.7m <sup>3</sup> Â                |             |                                         |                    |      |
| ~ V =50+180-55+167.7=342.7 m <sup>3</sup> |             |                                         |                    |      |
| H q 342.7m <sup>3</sup>                   |             | 1 YH ~ H                                |                    |      |
| q 540m <sup>3</sup>                       |             |                                         |                    |      |



|                          |       | , H Ð      |                      | L      |         |
|--------------------------|-------|------------|----------------------|--------|---------|
|                          | 7 0   | 10%        | ~ 1 4 0.4pg TEQ/kg Â |        |         |
|                          | 60kg  | o h        | H                    | 100%   | h ~ H   |
| ~ 100%                   | o h Â |            |                      |        |         |
| 7 ~                      | H     | h          | H                    | Ð      | 24pg Â  |
| ÿ                        | Ne    |            |                      |        |         |
|                          | à     | Ð ~        | H                    | ÿ, Ð Q | à Ð Q   |
| H                        | ÂD    | ÿ ~ 2.7m/s | ÿ                    | H Ne   | 4-8 1 7 |
| 7 ~ ÿ                    | 340m  | Ð H        | ~ 340m               | H      | 7       |
| ^ H                      | à     | 1' 0.33'   | 0.12                 | ~ ì    | 4 5     |
| pgTEQ/m <sup>3</sup> ~ Â |       |            |                      |        |         |

,

Ἡ δ

1

4-8 D

|     |      | H δ  |      |      |               |              |              |              |              |              |              |              |              |              |              |              |
|-----|------|------|------|------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|     |      | L    |      |      |               |              |              |              |              |              |              |              |              |              |              |              |
|     | 1min | 2min | 3min | 4min | 5min          | 6min         | 7min         | 8min         | 9min         | 10min        | 12min        | 14min        | 16min        | 18min        | 20min        | 25min        |
| 300 | 0    | 0    | 1.54 | 5.69 | 5.84          | 5.84         | 5.84         | 5.84         | 5.84         | 5.84         | 5.84         | 5.84         | 5.84         | 4.3          | 0            | 0            |
| 310 | 0    | 0    | 1.03 | 5.27 | 5.56          | 5.56         | 5.56         | 5.56         | 5.56         | 5.56         | 5.56         | 5.56         | 5.56         | 4.53         | 0            | 0            |
| 320 | 0    | 0    | 0.68 | 4.79 | 5.3           | 5.3          | 5.3          | 5.3          | 5.3          | 5.3          | 5.3          | 5.3          | 5.3          | 4.62         | 0            | 0            |
| 330 | 0    | 0    | 0.43 | 4.26 | 5.06          | 5.06         | 5.06         | 5.06         | 5.06         | 5.06         | 5.06         | 5.06         | 5.06         | 4.63         | 0            | 0            |
| 340 | 0    | 0    | 0.27 | 4.22 | 5.2360(9E-18) | 5.418(9E-18) | 5.418(9E-18) | 5.418(9E-18) | 5.418(9E-18) | 5.418(9E-18) | 5.418(9E-18) | 5.418(9E-18) | 5.418(9E-18) | 5.418(9E-18) | 5.418(9E-18) | 5.418(9E-18) |

| , H б L |        |        |        |        |        |        |        |        |        |        |        |               |        |        |       |       |             |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|-------|-------|-------------|
| 4-9 D   |        |        |        | 2.7m/s |        |        |        | Л      |        |        |        | € pg TEQ/m3 S |        |        |       |       |             |
|         | 1min   | 2min   | 3min   | 4min   | 5min   | 6min   | 7min   | 8min   | 9min   | 10min  | 12min  | 14min         | 16min  | 18min  | 20min | 25min | 25 №<br>h ° |
| 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0             | 0      | 0      | 0     | 0     | 0           |
| 10      | 0.0114 | 0.0114 | 0.0114 | 0.0114 | 0.0114 | 0.0114 | 0.0114 | 0.0114 | 0.0114 | 0.0114 | 0.0228 | 0.0228        | 0      | 0      | 0     | 0     | 0.1482      |
| 20      | 0.3548 | 0.3548 | 0.3548 | 0.3548 | 0.3548 | 0.3548 | 0.3548 | 0.3548 | 0.3548 | 0.3548 | 0.7096 | 0.7096        | 0      | 0      | 0     | 0     | 4.6124      |
| 30      | 0.9706 | 0.9706 | 0.9706 | 0.9706 | 0.9706 | 0.9706 | 0.9706 | 0.9706 | 0.9706 | 0.9706 | 1.9412 | 1.9412        | 0      | 0      | 0     | 0     | 12.6178     |
| 40      | 0.5252 | 0.5252 | 0.5252 | 0.5252 | 0.5252 | 0.5252 | 0.5252 | 0.5252 | 0.5252 | 0.5252 | 1.0504 | 1.0504        | 0      | 0      | 0     | 0     | 6.8276      |
| 50      | 0.4791 | 0.4791 | 0.4791 | 0.4791 | 0.4791 | 0.4791 | 0.4791 | 0.4791 | 0.4791 | 0.4791 | 0.9582 | 0.9582        | 0      | 0      | 0     | 0     | 6.2283      |
| 60      | 0.4244 | 0.4244 | 0.4244 | 0.4244 | 0.4244 | 0.4244 | 0.4244 | 0.4244 | 0.4244 | 0.4244 | 0.8488 | 0.8488        | 0      | 0      | 0     | 0     | 5.5172      |
| 70      | 0.365  | 0.3651 | 0.3651 | 0.3651 | 0.3651 | 0.3651 | 0.3651 | 0.3651 | 0.3651 | 0.3651 | 0.7302 | 0.7302        | 0.0002 | 0      | 0     | 0     | 4.7465      |
| 80      | 0.3108 | 0.3202 | 0.3202 | 0.3202 | 0.3202 | 0.3202 | 0.3202 | 0.3202 | 0.3202 | 0.3202 | 0.6404 | 0.6404        | 0.0188 | 0      | 0     | 0     | 4.1814      |
| 90      | 0.2166 | 0.2829 | 0.2829 | 0.2829 | 0.2829 | 0.2829 | 0.2829 | 0.2829 | 0.2829 | 0.2829 | 0.5658 | 0.5658        | 0.1326 | 0      | 0     | 0     | 3.8103      |
| 100     | 0.1063 | 0.2518 | 0.2518 | 0.2518 | 0.2518 | 0.2518 | 0.2518 | 0.2518 | 0.2518 | 0.2518 | 0.5036 | 0.5036        | 0.2912 | 0      | 0     | 0     | 3.5646      |
| 110     | 0.0391 | 0.2257 | 0.2257 | 0.2257 | 0.2257 | 0.2257 | 0.2257 | 0.2257 | 0.2257 | 0.2257 | 0.4514 | 0.4514        | 0.3732 | 0      | 0     | 0     | 3.3073      |
| 120     | 0.0121 | 0.2036 | 0.2036 | 0.2036 | 0.2036 | 0.2036 | 0.2036 | 0.2036 | 0.2036 | 0.2036 | 0.4072 | 0.4072        | 0.3828 | 0      | 0     | 0     | 3.0296      |
| 130     | 0.0035 | 0.1846 | 0.1846 | 0.1846 | 0.1846 | 0.1846 | 0.1846 | 0.1846 | 0.1846 | 0.1846 | 0.3692 | 0.3692        | 0.3622 | 0      | 0     | 0     | 2.762       |
| 140     | 0.001  | 0.1679 | 0.1682 | 0.1682 | 0.1682 | 0.1682 | 0.1682 | 0.1682 | 0.1682 | 0.1682 | 0.3364 | 0.3364        | 0.3346 | 0      | 0     | 0     | 2.5209      |
| 150     | 0.0003 | 0.1513 | 0.154  | 0.154  | 0.154  | 0.154  | 0.154  | 0.154  | 0.154  | 0.154  | 0.308  | 0.308         | 0.3074 | 0      | 0     | 0     | 2.3067      |
| 160     | 0.0001 | 0.1314 | 0.1416 | 0.1416 | 0.1416 | 0.1416 | 0.1416 | 0.1416 | 0.1416 | 0.1416 | 0.2832 | 0.2832        | 0.283  | 0      | 0     | 0     | 2.1136      |
| 170     | 0      | 0.106  | 0.1307 | 0.1307 | 0.1307 | 0.1307 | 0.1307 | 0.1307 | 0.1307 | 0.1307 | 0.2614 | 0.2614        | 0.2612 | 0      | 0     | 0     | 1.9356      |
| 180     | 0      | 0.0778 | 0.121  | 0.121  | 0.121  | 0.121  | 0.121  | 0.121  | 0.121  | 0.121  | 0.242  | 0.242         | 0.242  | 0      | 0     | 0     | 1.7718      |
| 190     | 0      | 0.0519 | 0.1124 | 0.1124 | 0.1124 | 0.1124 | 0.1124 | 0.1124 | 0.1124 | 0.1124 | 0.2248 | 0.2248        | 0.2248 | 0      | 0     | 0     | 1.6255      |
| 200     | 0      | 0.0318 | 0.1047 | 0.1047 | 0.1047 | 0.1047 | 0.1047 | 0.1047 | 0.1047 | 0.1047 | 0.2094 | 0.2094        | 0.2094 | 0.0002 | 0     | 0     | 1.4978      |
| 210     | 0      | 0.0182 | 0.0976 | 0.0979 | 0.0979 | 0.0979 | 0.0979 | 0.0979 | 0.0979 | 0.0979 | 0.1958 | 0.1958        | 0.1958 | 0.0006 | 0     | 0     | 1.3891      |
| 220     | 0      | 0.0098 | 0.0905 | 0.0917 | 0.0917 | 0.0917 | 0.0917 | 0.0917 | 0.0917 | 0.0917 | 0.1834 | 0.1834        | 0.1834 | 0.0024 | 0     | 0     | 1.2948      |
| 230     | 0      | 0.0051 | 0.0828 | 0.0861 | 0.0861 | 0.0861 | 0.0861 | 0.0861 | 0.0861 | 0.0861 | 0.1722 | 0.1722        | 0.1722 | 0.0066 | 0     | 0     | 1.2138      |
| 240     | 0      | 0.0026 | 0.0738 | 0.081  | 0.081  | 0.081  | 0.081  | 0.081  | 0.081  | 0.081  | 0.162  | 0.162         | 0.162  | 0.0144 | 0     | 0     | 1.1438      |
| 250     | 0      | 0.0013 | 0.0634 | 0.0763 | 0.0763 | 0.0763 | 0.0763 | 0.0763 | 0.0763 | 0.0763 | 0.1526 | 0.1526        | 0.1526 | 0.0258 | 0     | 0     | 1.0824      |
| 260     | 0      | 0.0006 | 0.0521 | 0.0721 | 0.0721 | 0.0721 | 0.0721 | 0.0721 | 0.0721 | 0.0721 | 0.1442 | 0.1442        | 0.1442 | 0.04   | 0     | 0     | 1.03        |
| 270     | 0      | 0.0003 | 0.041  | 0.0682 | 0.0682 | 0.0682 | 0.0682 | 0.0682 | 0.0682 | 0.0682 | 0.1364 | 0.1364        | 0.1364 | 0.0546 | 0     | 0     | 0.9825      |
| 280     | 0      | 0.0002 | 0.0307 | 0.0645 | 0.0647 | 0.0647 | 0.0647 | 0.0647 | 0.0647 | 0.0647 | 0.1294 | 0.1294        | 0.1294 | 0.0678 | 0     | 0     | 0.9396      |

|     |   |        |        |        |        | H <sub>B</sub> |        |        |        |        |        |        | L      |        |        |   |        |
|-----|---|--------|--------|--------|--------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|
| 290 | 0 | 0.0001 | 0.0221 | 0.0608 | 0.0614 | 0.0614         | 0.0614 | 0.0614 | 0.0614 | 0.0614 | 0.1228 | 0.1228 | 0.1228 | 0.0786 | 0      | 0 | 0.8984 |
| 300 | 0 | 0      | 0.0154 | 0.0569 | 0.0584 | 0.0584         | 0.0584 | 0.0584 | 0.0584 | 0.0584 | 0.1168 | 0.1168 | 0.1168 | 0.086  | 0      | 0 | 0.8591 |
| 310 | 0 | 0      | 0.0103 | 0.0527 | 0.0556 | 0.0556         | 0.0556 | 0.0556 | 0.0556 | 0.0556 | 0.1112 | 0.1112 | 0.1112 | 0.0906 | 0      | 0 | 0.8208 |
| 320 | 0 | 0      | 0.0068 | 0.0479 | 0.053  | 0.053          | 0.053  | 0.053  | 0.053  | 0.053  | 0.106  | 0.106  | 0.106  | 0.0924 | 0      | 0 | 0.7831 |
| 330 | 0 | 0      | 0.0043 | 0.0426 | 0.0506 | 0.0506         | 0.0506 | 0.0506 | 0.0506 | 0.0506 | 0.1012 | 0.1012 | 0.1012 | 0.0926 | 0      | 0 | 0.7467 |
| 340 | 0 | 0      | 0.0027 | 0.037  | 0.0483 | 0.0484         | 0.0484 | 0.0484 | 0.0484 | 0.0484 | 0.0968 | 0.0968 | 0.0968 | 0.0912 | 0.0005 | 0 | 0.7121 |
| 350 | 0 | 0      | 0.0017 | 0.0312 | 0.0461 | 0.0463         | 0.0463 | 0.0463 | 0.0463 | 0.0463 | 0.0926 | 0.0926 | 0.0926 | 0.0892 | 0.001  | 0 | 0.6785 |
| 360 | 0 | 0      | 0.001  | 0.0256 | 0.044  | 0.0443         | 0.0443 | 0.0443 | 0.0443 | 0.0443 | 0.0886 | 0.0886 | 0.0886 | 0.0866 | 0.002  | 0 | 0.6465 |

|                |  | H <sub>2</sub> O |  | L              |  |
|----------------|--|------------------|--|----------------|--|
| ^ 2~           |  |                  |  |                |  |
|                |  | H <sub>2</sub>   |  | PCDD à PCDF~   |  |
| L              |  | H <sub>2</sub>   |  | ~              |  |
| wH             |  | à                |  | L              |  |
|                |  |                  |  |                |  |
| Y <sub>H</sub> |  | à                |  |                |  |
| y              |  | No               |  | b              |  |
| Y <sub>L</sub> |  | 850              |  | 2s             |  |
| Z <sub>L</sub> |  | 200-400          |  |                |  |
| z              |  | Q                |  | L              |  |
| Z <sup>+</sup> |  | à                |  | F              |  |
| z <sup>+</sup> |  |                  |  | à              |  |
| I~             |  |                  |  |                |  |
| Z <sub>L</sub> |  | H                |  |                |  |
| z              |  | H                |  | Y              |  |
| h              |  | h                |  | h              |  |
| A              |  |                  |  |                |  |
| ^ 3~           |  |                  |  |                |  |
|                |  | H <sub>2</sub>   |  | 4-8 Å          |  |
|                |  | 4-8              |  | ε              |  |
| Q              |  |                  |  |                |  |
|                |  | à                |  | H <sub>2</sub> |  |
|                |  | 1~               |  | à              |  |
|                |  | 2~               |  |                |  |
|                |  | NOx              |  | à CO           |  |
|                |  | à                |  | 0              |  |
|                |  | à                |  | b              |  |
|                |  | à                |  | A              |  |
|                |  | w                |  | h              |  |
|                |  | H                |  | L              |  |
|                |  | H                |  | E              |  |
|                |  | Y                |  | h              |  |
|                |  | 500              |  | h              |  |
|                |  |                  |  | h              |  |



|            |      | НБ  |        | L                |      |
|------------|------|-----|--------|------------------|------|
| ê δ        | 3    |     |        |                  | ĩ^   |
| [2016]227_ | ~ ~  | γ   | L γ    | N <sub>2</sub> ч | γ ä  |
| ч          | h    | ä   | ä      | б                | ~ 1  |
|            |      | ĩ   | Â      | γ ч              | 1    |
| б          | 300  | Â   |        |                  | ~ 1  |
|            |      |     | γ ч γ  | ^                | γ~ ч |
|            |      |     |        |                  | 300m |
|            |      |     | γ      | ~                | Â    |
|            |      |     | ~      | γ ч              | L γ~ |
|            |      |     | ~ Н    | Й~               | Й    |
|            |      |     | ~      | ~ б              |      |
|            |      |     | γ 0    | Â                | ĩ    |
| Н          | ~    | Д   | ~      | Â                | Н    |
| ^ 2~       |      |     |        |                  |      |
| ŵ γ        | ĩ    | ~ Н | Й      | ~                | ~    |
| 1          | J'   |     |        |                  |      |
| Ŷ          | 1    | Н   | Й      | ~                | ~ Н  |
| γ          |      | h   | ~      |                  | Й    |
| ŷ          |      | ä   |        |                  | Dρ'  |
| ÿ          | γ    | ~   |        | ~                | Â    |
| Ẑ γ        | 300m |     | ч      | ~                | ~    |
|            | L γ~ |     | Â L    | ~                | 3 Â  |
| ^ 3~       |      |     |        |                  |      |
|            | Н    |     | 4-11 Â |                  |      |
|            | 4-11 |     |        | ε M              |      |
| γ          |      |     |        |                  |      |
|            |      |     | НБ     |                  |      |



|                             |     |       | НБ     | Л   |
|-----------------------------|-----|-------|--------|-----|
| 1                           | ^ % |       | 109.82 | 5.6 |
| 4-13                        | №   | 7     | Δ      | 275 |
| PM <sub>10</sub>            | Ф   |       | 0.09   | Н   |
| 0.2749pg TEQ/m <sup>3</sup> | 1   | 5.6%  | Н      |     |
| 1                           | 7   | 0     | Â      |     |
| Δ                           | 1   | 360.8 |        |     |
| Н                           | 1   | 7     | 0      | Â   |
| 2                           |     |       |        |     |
| ŵ                           |     |       |        |     |
| Ŷ                           |     |       |        |     |
| ŷ                           |     | η     | Â      |     |
| 3.                          |     |       |        |     |

| 4-14 |                  | ε М                                                      |
|------|------------------|----------------------------------------------------------|
| η    |                  |                                                          |
|      | 1                | НБ                                                       |
|      | 1 <sup>~</sup> Н | à SO <sub>2</sub> à NO <sub>x</sub> à CO à HCl à Н       |
|      | 2 <sup>~</sup>   | à Б                                                      |
|      |                  | Â                                                        |
|      | à                | Е Н à                                                    |
|      | ŵ                | ŶⓈ                                                       |
|      | ŶⓈ               | Б                                                        |
|      | ŷ                | Ŷ                                                        |
|      | Ŷ                | Ŷ                                                        |
|      | Ŷ                | Н                                                        |
|      | Ŷ                | Δ Н                                                      |
|      | Ŷ                | β Н                                                      |
|      | (1)              | à HCl à SO <sub>2</sub> à NO <sub>x</sub> à Pb à Cd à Hg |
|      | (2)              | ŵ                                                        |
|      | ŵ                | à Н                                                      |
|      | Ŷ                | 50m~100m                                                 |
|      | Ŷ                | 1~2 Â                                                    |
|      | Ŷ                | 1 НБ 1 β Н                                               |
|      | Ŷ                | 1 β Â                                                    |

|              | Hb đ                 |                      |      | L   |                                 |      |
|--------------|----------------------|----------------------|------|-----|---------------------------------|------|
|              | à                    | à                    | à    | à   | đ                               | h    |
| 4.3.5        | ε                    |                      |      |     |                                 |      |
| 1~           |                      |                      |      |     |                                 |      |
|              |                      |                      |      |     |                                 |      |
|              | Â                    |                      |      |     |                                 |      |
| 2~           |                      |                      |      |     |                                 |      |
|              | β                    | ~                    |      | 3   | Ỡ                               | ~    |
|              | 1620m <sup>3</sup> Â | Δ~                   |      |     | ¶ 150t/d                        |      |
| 200t/d       |                      | ~ ¶                  |      | Â   | E                               | ê 1  |
|              | Ỡ GB50483-2009~      |                      |      | ^ Ỡ |                                 | Hb   |
|              | ~ ¶                  | Â                    |      |     |                                 |      |
| ŵ Hb         |                      |                      |      |     |                                 |      |
| GB50483-2009 | 6.6.3                | Ỡ                    | Hb   | Hb  |                                 | à Hb |
| ¶            | Hb                   |                      |      | E~  |                                 |      |
|              | ~ Ỡ                  | Hb                   | ~    | Hb  |                                 |      |
| ^ V1~ ~      | Ỡ                    | 7                    |      | ~   | V1=150 × 7=1050m <sup>3</sup> Â |      |
| Ŷ            |                      |                      |      |     |                                 |      |
| ¶ 3          | ~                    | 1620m <sup>3</sup> ¶ |      |     | 7                               |      |
| Â            |                      |                      |      |     |                                 |      |
| ŷ Hb         | ¶                    |                      |      |     |                                 |      |
|              | Δ~                   |                      | Ỡ Hb | Ỡ   | 7                               | Ỡ    |
| ~ Ỡ          | x                    |                      |      |     |                                 |      |



**4-17**

| (m/s) |   |    | (mg/m <sup>3</sup> ) | Ф (m)  | LC50 (m) | PC-STEL (m) | IDLH (m) | (m)  |
|-------|---|----|----------------------|--------|----------|-------------|----------|------|
| 2.6   | D | 5  | 86.5891              | 14.5   | /        | 18.1        | /        | 91.6 |
|       |   | 10 | 86.5891              | 14.5   | /        | 18.1        | /        | 91.6 |
|       |   | 30 | 0.0611               | 1048.2 | /        | /           | /        |      |
|       |   | 60 | 0.0193               | 2079.1 | /        | /           | /        |      |

4-17      91.6m      18.1m      300m

^ 2~

ŵ      β

Ŷ      3m ×

4m × 1m      1

ŷ      h      à      à      Ф

Ÿ      НБ

Ÿ      F      Ф

Ф      à      í'      ì

Z<sup>+</sup>      I~      à      à      à H      Ъ      Â

^ 3~

4-15 Â

**4-15**

**ε M**

| η |                                                    |
|---|----------------------------------------------------|
|   |                                                    |
|   | 1~ h      SNCR      2~      ì      h      Ф      Ъ |
|   | Â                                                  |
|   | à      'E      h                                   |
|   | ŵ      SNCR      20m      Ф      Ф      H          |
|   | Â                                                  |
|   | Ŷ ®                                                |