

# 腾龙芳烃（漳州）有限公司热电厂

## 锅炉日用煤仓改造技术规范书

编制： 陈炫军 郑伟平 陈毅 魏和  
陈木炳 谭海平 沈庆华

初审： 李建华 王红艳 郑国军

审核： 刘峰

核准： 郑达意

2021 年 04 月 1 日

- ...

|                |          |
|----------------|----------|
| Lt& 03.....    | .....1   |
| Lt& A7031..... | .....12  |
| Lt& A7041..... | .....19  |
| Lt& P1013..... | .....23  |
| Lt& O1.....    | .....27  |
| Lt& 55.....    | .....2 8 |
| Lt& 15.....    | .....31  |
| Lt& 15k.....   | .....32  |

## Lt& 03

1 kI

1.1 03F2+Xe10; K58KFPÈ7F7F7

7L4t 87 - A1B5F7F7 - 7L4t, 7L4t

1.2 03F2+Xe10; K58KFPÈ7F7F7

7L4t 87 - A1B5F7F7 - 7L4t, 7L4t

7L4t 87 - A1B5F7F7 - 7L4t, 7L4t

1.3 03F2+Xe10; K58KFPÈ7F7F7

7L4t 87 - A1B5F7F7 - 7L4t, 7L4t

1.4 03F2+Xe10; K58KFPÈ7F7F7

7L4t 87 - A1B5F7F7 - 7L4t, 7L4t

1.5 03F2+Xe10; K58KFPÈ7F7F7

7L4t 87 - A1B5F7F7 - 7L4t, 7L4t

7L4t 87 - A1B5F7F7 - 7L4t, 7L4t

7L4t 87 - A1B5F7F7 - 7L4t, 7L4t

1.7 03F2+Xe10; K58KFPÈ7F7F7

7L4t 87 - A1B5F7F7 - 7L4t, 7L4t

1.8 03F2+Xe10; K58KFPÈ7F7F7

7L4t 87 - A1B5F7F7 - 7L4t, 7L4t

1.10 03F2+Xe10; K58KFPÈ7F7F7

7L4t 87 - A1B5F7F7 - 7L4t, 7L4t

7L4t 87 - A1B5F7F7 - 7L4t, 7L4t

1.11 03F2+Xe10; K58KFPÈ7F7F7

7L4t 87 - A1B5F7F7 - 7L4t, 7L4t

7L4t 87 - A1B5F7F7 - 7L4t, 7L4t

2 03

7L4t 87 - A1B5F7F7 - 7L4t, 7L4t

7L4t 87 - A1B5F7F7 - 7L4t, 7L4t

7L4t 87 - A1B5F7F7 - 7L4t, 7L4t

0j 256.5m³

PG41FPÉFPMOAÑ-E)BÄ

2.1 K564

K559LcCQQÑAÑ&

7ÑM57A55A

Ä 3525K535Ö

SG-670/13.7-M3001

|     |              |       |         |
|-----|--------------|-------|---------|
| E78 | OWF5:6Ä-MCRA | 670   | t /h    |
|     | NEÄ-MCRA     | 13.7  | MPa · g |
|     | NEÄ-MCRA     | 540   |         |
| 5dÖ |              | 230.0 |         |
| 5ÖE |              | 15.2  | MPa · a |
| 5ÖE |              | 343   |         |
| NÖ  |              | 139   |         |

2.2 0k2 ðtÉ

2.2.1 DBCtÉ

ÄÄD Ö

ÖY

## 3.1.1 K583

1) K583 4 670t/h K583CQ5<sup>1</sup>

K583N5K583

2) K583WF5:670t/h

3) K583 · K583 2 %

## 3.1.2 f23+5

F0/J0QN1\$123+5183

5 F0/J0

A70C7 0

F0

7+X

## 3.2 C8CtÉ

| N0   |     |   |       |       |
|------|-----|---|-------|-------|
|      | Mar | Á | 12.0  | 13.0  |
| 0D06 | Mad | % | 6.0   | 8.0   |
| f0   | Aar | Á | 22.0  | 25.0  |
| f0   | Car | Á | 54.21 | 49.90 |
| fR   | Har | Á | 2     |       |

- 4.2  $\frac{760CS0.9AA}{760SF8\#b7Ej\ddot{A}}$   $2t\ddot{A}+a\ddot{A}$
- 4.3  $65j8\#4\ddot{O}$   $Q\ddot{E}L\ddot{A}G\ddot{E}>$
- $A7\pm E7-0\%C\ddot{A}$
- 4.4  $\ddot{X}j:6G\ddot{B}Lbe\$e\ddot{X}j\cdot$
- $\ddot{?}4\ddot{O}$   $Q\ddot{A}\ddot{B}Lbe\$e\ddot{X}j\ddot{G}@K8J\ddot{O}$
- $CJ1L/BN1G/201\ddot{O}$   $10\pm0.5mm\ddot{E}a\ddot{B}B\ddot{B}\ddot{B}$
- $F\ddot{G}+\ddot{X}\ddot{A}8-(\ddot{O}\cdot\$$   $\ddot{E}$
- $5j-(\ddot{O}i5j,\ddot{B}\ddot{A}\ddot{A}$
- 4.5  $\ddot{X}j:6\ddot{U}\ddot{E}+K8J\ddot{O}$   $CJ1L/BN1G/201\ddot{O}$   $\_\pm$
- $0.5mm\ddot{B}\ddot{O}1$   $T$   $\ddot{B}j\ddot{O}\times L\pm\ddot{B}+\ddot{X}\ddot{P}\ddot{O}f+e.\ddot{n}$
- $L01f9+\ddot{X}04\ddot{U}\ddot{K},\ddot{B}\ddot{B}\times\ddot{B}\cdot\ddot{E}\ddot{E}$
- $\cdot\ddot{A}L\ddot{f}j\ddot{O}\cdot L0L\ddot{E}\ddot{O}M\ddot{E}I\ddot{A}$
- 4.6  $\times f+\ddot{X}0\ddot{D}\ddot{E}\ddot{D}\ddot{B}5\ddot{z}86\ddot{E}A5\ddot{O}(\ddot{E}g\ddot{A}\ddot{E}$
- $\ddot{B}\ddot{O}\ddot{B}\cdot\ddot{E}(\ddot{A}$
- 4.7  $\ddot{B}\ddot{z}\ddot{B}\ddot{B}be\$e\ddot{X}jL\ddot{B}\ddot{O}+X$
- $K8J\ddot{O}4\ddot{g}\ddot{A}\ddot{O}\ddot{B}\ddot{A}\ddot{A}\ddot{g}\ddot{A}\ddot{S}\ddot{A}\ddot{O}K8\ddot{F}$
- $4\ddot{B}F\ddot{O}+X\ddot{B}J\ddot{O}4\ddot{g}\ddot{A}\ddot{g}\ddot{B}K8J\ddot{O}\ddot{E}+X\ddot{O}$
- $F\ddot{A}$
- 4.8  $\ddot{K}2\ddot{f}\ddot{A}5\ddot{B}\ddot{A}$
- 4.9  $\ddot{B}\ddot{O}\ddot{?}$   $2\ddot{B}KT\ddot{S}y\ddot{a}\ddot{A}\ddot{A}\ddot{A}$
- $\cdot\ddot{E}K\ddot{B}\ddot{E})\ddot{B}\ddot{E}$   $+e.\ddot{A}L0+\ddot{X}04\ddot{U}\ddot{E}5h\ddot{A}(\ddot{E}$
- $4\ddot{B}OG+\ddot{X}\ddot{A}$   $4\ddot{O}Z\$e\ddot{q}+\ddot{B}\ddot{B}\ddot{z}\ddot{g}\ddot{a}$
- $\cdot\ddot{E}\ddot{B}KT3+57-\ddot{O}\ddot{U}N\ddot{E}\ddot{B}F2,\ddot{O}\ddot{E}-0$
- $F0\ddot{9}\times\ddot{E}J\ddot{E}7-\times f7-\ddot{E}-0\ddot{I}\ddot{B}\ddot{O}f\ddot{A}\ddot{O}f\ddot{A}$
- 4.10  $35\ddot{B}\ddot{O}\ddot{B}\ddot{B}8\ddot{O}/\ddot{B}\ddot{z}D\ddot{A}\ddot{N}K8J\ddot{O}\ddot{E}$
- $\ddot{B}\ddot{O}\ddot{E}$   $0.45-0.65Mpa,\ddot{B}\ddot{E}4\times93\$a\ddot{A}\ddot{A}\ddot{B},\ddot{O}\ddot{O}$   $m$   $\ddot{E}$
- $ZDKT\ddot{G}DG\ddot{y}$   $m^3/Q\ddot{A}$
- 4.11  $5j\ddot{B}\ddot{A}5j5\ddot{B}\ddot{A}$
- $L\ddot{B}\ddot{z}$   $\ddot{z}\ddot{B}\ddot{B}KT\ddot{I}\ddot{z}-\ddot{E}$   $F\ddot{?}$

âPQ ± òñW8X

4.12 y4Lbe\$Qbe\$e3+5Ä-ÿ-Ö

a. G} È,´ ð#{ >~ ú × fAî 7 Ä% Cã \_ Ø Ã Œ!' ÃF >| ¼ » u 4\*6E÷0;,' × f Ã

8² Ã6„K1 ¼ Ô,´?±"r ×

b. 7-FJE÷PLC × fÄ DCS

4.20 4Lbe\$eÇ 4646E6M%6NB08E+K

46Äa7ÄÄ5Ä

4.21 3JLtFö PLC Q#e × 1ö# DCSÄ DCS × fÖÄ+È DCS

FG4i PLC × wa7ÄCS G4ü DCS 1841B3B+a+bE0

CSÄi DCS B3BHÄ

4.22 G6Ä5E &gt;0

4.23 8-öjÖ

4.24 × f1äLbÖ4 × NEi IP65E f1ä± +eDsE0+X04i|×

Ä

4.25 3JLtFö × f1E 7E0CSÈ 05E0CS+eÄ

08#× f+e568E568N1803ü± E f

1PÄK+aE0CSÄ

4.26 È 1 pM0,Lj7Ä7kP 3 pM0,0E7Ä

4.27 k± A7ö

| č | N©                | }.. | l                              | 7# |
|---|-------------------|-----|--------------------------------|----|
| 1 | 4Lbe\$eÇ          |     |                                |    |
|   | fFPv              |     |                                |    |
|   | ž                 |     | 4i                             |    |
|   | É                 |     | = K<br>CJ1L/BN1G/201           |    |
|   | Ö(Ä ) 1/) 2Ä      | mm  | ž ____mm /ž ____mm             |    |
|   | Fj(Ä ) 1/) 2 × LÄ | mm  | ž ____mm /ž ____mm<br>× ____mm |    |
|   | GÄ1 ZÄ            | ‡   | 1                              |    |
|   | Göy               | kg  |                                |    |
| 2 | ÄKT               |     |                                |    |
|   | fFPv              |     |                                |    |
|   | kÉ                |     |                                |    |
|   | %Ä                |     | ____KG                         |    |

| № | №       | №   | №         | №        |
|---|---------|-----|-----------|----------|
|   | №       |     | №         |          |
|   | №       | MPa | 0.45-0.65 |          |
|   | №       | m3  |           |          |
|   | №       |     | 00.1%     |          |
|   | №       | mm  |           | 304 K8J0 |
|   | №       |     |           |          |
|   | 6G+eGy  |     |           |          |
|   | × fGy   |     | 1         | E+X      |
| 3 | Dd86/8z |     |           |          |
|   | fFPv    |     |           |          |
|   | »       |     | 05€       |          |
|   | »       |     |           |          |
|   | AAÑ     | MPa |           | AAÑ      |
|   | AAÑ     |     |           |          |
|   | 90      | m³  |           |          |
|   | AS      | s   | 8         |          |
|   | 17-È    |     | %CMOP     |          |
|   | €X      |     |           |          |
| 4 | AL      |     |           |          |
|   | fFPv    |     |           |          |
|   | »       | AAÑ |           |          |



2. ü A PLC 101€ DCS 7 I/O \$...

| 1 | 2*  | 3           | 4         | MD | 7#  |
|---|-----|-------------|-----------|----|-----|
| 1 | I I | LO}         | 3         |    | 0'  |
| 2 |     | LF          | 3         |    | 0'  |
| 3 |     | 0a`         | 3         |    | 0'  |
| 4 |     | LD-         | 3         |    | 0'  |
| 5 | O I | LO70;<br>0A | 8V9<br>eA |    | OL7 |
| 6 |     | LZA<br>0A   | 8V<br>+eA |    | E7  |

5 C03P1P14

5.1 C017A 1CS 12 Z800+0C0NEX

+e2 1B04P140C0E80E0A7E

C01P0A7W7-P101001CS

5.2 A7+0L00 2 8<1E 24 0)à

jV00A71HFei0

5.3 A7CWJ.7Ea7CFPF@P1010WÄ

5.4 P101,0KFPF0ye0P1010WÄ

5.5 A0H1K0Ä0Ä

5.6 A0M0± 1 007, A70FÄ

6 5EÄ

6.1 A7502+FE0+005E:-(Ä10Ä

6.2 i4G000 A7FE0V± 00, 50U

Ä0Ä

6.3 p9100LÄ1M00-000X

FE010L\$07E011YM0Ä

6.4 ±e0A7001500E010L\$'

00E0A7%0Ä

6.5 A75007Ö

### 6.5.1 FEHLERBEMERKUNG

6.5.2 CW75FA65FV1A1A(KHhQ)GA

~~6A70~~ ~~AWACWA.~~

7  $P_{1/4} \tilde{N}$ 

7.1 AVEB + a7EJ.7618E )'—85E

F04/Ä

## 7.2 AVEs and AEs (Q E7A)

8 B  
I

8.1 03EW93\$ 089%eİFkP9ü

 $\hat{A}, \hat{M}, \&\ddot{A}$ 

8.2 Q%\$ · 6A703, Lt 801yÄ

### 8.3 $\text{Fe}_3\text{O}_4$ -Ä

## 8.4 Zm

9 \$#E6E6E6

## 9.10 MSÖ

M46669, (CMÄSLÄÖE9} 7AÄ

91CX-ÄFMÄPEÄ<sup>3</sup>, GEGF\$#4

6E04\$66G+6b7Ä

## 10.6S+

## 10.1 7ES+

10.1.1 COCSB30E6Ä

10.1.2 COCSAÄYÄ

10.1.3 COCS44N6COCS43PFÄ

10.1.4 ÄFP65, AB8Ä

10.1.5 COCSÄ, ÄÄÄ

10.1.6 COCSÄÄJÄ

## 10.2 ÄES+

10.2.1 ÄEOCSQÄÄÄBÄÄYÄ

10.2.2 ÄEOCS+e × 1ä65ÄBü(ÄeÄ

DCS 4i, Ä

Ä

10.2.3 07ÄGÄ, Ä

10.2.4 ÄEOCS)ÄÄ-(ÄtCÄÄ}

ÄÄÄJÄÄ(Ä)ÄÄ

10.2.5 ÄÄÄÄÄÄÄÄÄ

10.2.6 ÄÄFÄ4NÄÄÄÄ(ÄÄ

Lt& AA&W93& f

1 08& f

1.1 10iFPp#AA&W93& f&A&î

A&E, &× A7j&A, &W, È

DA7, &7-1803, & Ä

1.2 A&A&W&E&A

× Å × a&7F&0, G&L t

8GF-€&X &Si&Ä



3.2.4.5 #OC01yCS+,08EJÄ

3.2.4.6 #0086)BÄ

3.2.4.7 #OAAÖyKIEC§JkAÄ

3.2.4.8 #OB3BB9C§3+5Fk± A7EÄ

3.2.5 40A7+

iE0 × ÖCS, I EÄN¶Ö7-GL4280 ×

#Ö0,6CSEÄMÄGG§E6E

+0 × Fþ-Ä

3.2.6 #0 × 0\$AÝÖ

D)Fjê9WÄ63h:ÖAÝÖ

3.2.7 #ÖÖ

#Öa46K1Eþ

1015 6J#Ö

#Ö± Af ÖEÄEÖbÖX

#A7,†ZÖÖAÖEÄ

#Öa46EÖÖÖk50QÈ

6Ö,7jÖÖC6Ä

3.2.8 #0 × ÄffÖ

3.2.8.1 (e)N©,Ö

(e)ÖÖ3AÖN©XLNÈ)jAÖ´

EFJ.ÄGgiÖLNÖEþE4

65IÖ67-0ÖaÖk1ÖÖCSFÄ

3.2.8.2 N©G8Ö

N©G6pCÖCS,0N©,ÖE

93Ö

a.p9#ÄlbÖ

b.dEÄbÖ

c.

d. 7J ~~4A~~

e . d b a b c d e f g h i j k l m

f. 4i—€L\$LbÂ

g. MŽŮK (P82GŮS+GŮNŮ)

$$h.D\tilde{N}^2D + 86D/\ddot{a}$$

i. 9fK/5Ez. È. ÄOE, Ä

j.4/yA7A

k.)  $\frac{1}{2} \frac{d}{dt} \left( \frac{1}{2} \frac{d}{dt} \right)$

1. <sup>3</sup>BPÄ

m. ~~Y9~~Lb & f. G~~EM~~4ö~~ME~~

$$\underline{\underline{M}}_{\frac{1}{2}}^{\frac{1}{2}} \underline{\underline{G}}_{\frac{1}{2}}^{\frac{1}{2}} b$$

ÄÊËÖÖß#bÄ.

### 3.2.8.3 P<sub>4</sub>O

a. 7J4E\* aNcJNcGCOS

F&amp;B&amp;E&amp;I&amp;E&amp;X

b.  $\text{H}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{NH}_2 + \text{H}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{NH}_2 \rightarrow \text{H}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{NH}-\text{CH}_2-\text{CH}_2-\text{NH}_2$

60CSEPMELIX

### 3.2.9 ÄÖ

### 3.2.9.1 $\mathbb{A}_+^1$

00R@C0CSÄ0(0Ež

E0;+ F00Q0+aB1F

~~ABN, — kaB104m~~

ŒCã#9£b3b7Ä

AFBGOA&

1. ~~LN~~ ~~EN~~ ~~EN~~ ~~EN~~ ~~EN~~

~~CaO-X-EOEU~~

)WF&BÈi Q9Ä

3.2.10 (CMA)  $\mathbb{A}^1_{\mathbb{C}} \times \mathbb{C} \rightarrow \mathbb{C}$

3.2.10.1 (CZ) 65P 14 9GV3P

0A50E5E (0A

3.2.10.2 (0936e0A70E4

3.2.10.3 p9p0C-849-E0ALF7E63

h:0A

3.2.10.4 jàp9(05«A0G7A

3.2.11 jà#b10fÖ

3.2.11.1 jàLb858AÖCnLbjkA58,00n

C8Lb8E10E1k1A1COCS,IA

3.2.11.2 NCG06b8S+nE40)jLb8S+ECOCs

jàLb8E × Lb8E24b8S+j6CSA

3.2.11.3 NCGA6F4W,Lb8E0b.AjEbb0

%00YNCb80

3.2.11.4 0ûb80072)jFbbE

N8E × NCG004094)jLb8E00× (0)

NCF8A

3.2.11.5 jàAÖ0SeDA7A8E6(6Ab8E6E

3.2.11.6 jà0080AEl—00

3.2.12 00fÖ

3.2.12.1 j0A0B406T0±GNLbE!

T000fÖ

3.2.12.2 T06A000;0,00T0W

1A

4 EW93\$

p9AAB0\$;N ueDA7EW93E05EW

93\$A700E)F0±,00A

4.1 Z05A¾ 2 ZD0T0ya7A00E

NE0E)00/00E0E

PLC × f0E

+e0; 19 00iFP0E>

11 Z0FP0FP0NO

F0iFPÄ

76× f1á× f9365ZjFCÄeñA Ä

7× f1á× f0ZCTFÄ

#### 4.2 B46W938GyñA

| č  | θ                  | }.. | Gÿ | »           | +0 × æ |
|----|--------------------|-----|----|-------------|--------|
| 1  | 4Lbe\$eQ           | ‡   |    |             |        |
| 2  | ÄL                 |     |    |             |        |
| 3  | DKT                | ‡   |    |             |        |
| 4  | Dd86/8z            | ‡   |    |             |        |
| 5  | +e × 1á            | ‡   |    |             |        |
| 6  | ê                  | ‡   |    | 500 × 500mm |        |
| 7  | ø                  | ‡   |    | 200 × 200mm |        |
| 8  | 8#8<br>8z          | ‡   |    |             |        |
| 9  | R8J08 <sup>2</sup> | ‡   |    |             |        |
| 10 | 8E8z               | ‡   |    |             |        |
| 11 | 8z                 | ‡   |    |             |        |
| 12 | 8                  | ‡   |    |             |        |

#### 4.3 FC&..

| č | θ        | » | }.. | Gÿ | × ` | +0 × æ | 7#    |
|---|----------|---|-----|----|-----|--------|-------|
| 1 | EE PLC   |   | &   |    |     |        |       |
| 2 | DKT+e.ñ0 |   | &   |    |     |        | DKT+X |
|   |          |   |     |    |     |        |       |

#### 4.4 Lj7ñ&..

| č | θ        | » | }.. | Gÿ | × ` | +0 × æ | 7# |
|---|----------|---|-----|----|-----|--------|----|
| 1 | DKTD5h8  |   | 46  |    |     |        |    |
| 2 | LDñ<br>8 |   | 46  |    |     |        |    |
| 3 | DKT+e.ñ0 |   | &   |    |     |        |    |

|   |        |  |   |  |  |  |   |
|---|--------|--|---|--|--|--|---|
| 4 | DKTÊ0  |  | & |  |  |  |   |
| 5 | DKTF08 |  | & |  |  |  |   |
| 6 |        |  |   |  |  |  | & |

## Lt& A7%tÉÖ

1 08± f

1.1 AĖCtĖxĖLĖCtĖ4è

,· /ý ]· AĖCtĖx08\$C0CSÄ

Ė.48& AUTOCAD2004 +eĖ Ä

1.2 CtĖ435\$ĖkEWjÄtĖ38\$ĖCă

0± Ä

1.3 AĖCtĖĖC0F0 03100

10 Y

ĖCtĖĖĖĖĖĖ

1.4 AĖCtĖjĖLfĖ3AAĖĖĖ-FP003B

BĖĖ-BPPĖFĖĖĖĖ%CăZĖ,± Ä

1.5 )ĖĖG8CtĖĖpĖ0 · 0ĖĖ4yĖ

AĖĖ0jJ A7Ė79iFĖ

ĖĖĖCtĖÄ

1.6 7ĖĖĖAAĖĖFP9ĖCtĖÄ

1.7 AĖĖĖĖĖĖ/ ĖĖĖĖ}

10 Ė

1.8 A7Ė7+CtĖ

6 ĖĖx

2 Ä

1.9 AĖp9CtĖĖCtĖ+ĖĖĖĖĖĖĖ46tĖ

ĖĖĖCWpCtĖĖFP07FĖ+aĖ0

CSCÄ

2 CtĖĖ f

2.1 jĖĖĖĖ

0310 10 ĖĖĖĖ

KTA7k.Ä×

A7FĖĖ×

4GA7,ĖĖ×

GA7,5ĖĖĖĖ×

4GA7,03×

4GA7,B3BP0×

778+80\*

8+807\*

A7\*p¼eDÃ fÖtÉ

× fÖCtÉ

× f1fj (8 ×

8

+e56\$Ä

2.2 78FPA78-87X03¼

7ö-\$.Ä.

2.3 A7-FPpM0± ,CtÉ

78CA7-FPpM0± ,CtÉ

2.4 83BÄF,487-BPpM0,CtÉ

\$¼.Ä5ÉÄÉ

12 #yj46A7CW

} 1 88E7e° 84E-A7F8Ä

8° 8486tÉCA7Xg,83BPVÄ

F8M0± 8ÄÄ

2.2 ;CtÉ

2.4.1 × 81A8\*

2.4.2 A7F8\*

2.4.3 4G8A7,83BÄ8\*

2.4.4 4G8A7,5886Xy\*

2.4.5 4G8A7,83\*

2.4.6 4G8A7,B388\*

2.4.7 4G8A7,81A8\*

2.4.8 4G8A7k± +8881A8\*

2.4.9 778+80\*

2.4.10 8+807\*

2.4.11 C6888DÄ

2.4.12 A7kAÄ8\*

2.4.13 A7k6}C88 ×

2.4.14 A7\*p¼eDÃ fÖtÉ



| č<br>, | θ                   | …<br>} | Gy | » | ŮFÖ                                   |
|--------|---------------------|--------|----|---|---------------------------------------|
| 1      | 4Lbe\$eQ            | ‡      |    |   | »e 4L®<br>A0# 6<br>0 4L1®<br>A030 6WÄ |
| 2      | ÄL                  |        |    |   |                                       |
| 3      | DKT                 | ‡      |    |   |                                       |
| 4      | Dd86/6ž             | ‡      |    |   |                                       |
| 5      | +e × 1á             | ‡      |    |   |                                       |
| 6      | 6                   | ‡      |    |   |                                       |
| 7      | 6                   | ‡      |    |   |                                       |
| 8      | 6#6Ü<br>6ž          | ‡      |    |   |                                       |
| 9      | 68J068 <sup>2</sup> | ‡      |    |   |                                       |
| 10     | 6E6ž                | ‡      |    |   |                                       |
| 11     | 6ž                  | ‡      |    |   |                                       |

BŠ

1. 6B8T&amp;6AC0FÖ± Ä

## Lt& -FP17-F1BP14

1 F

1.1 1+<DL\$A7(5)65FC17)F1FPÄ

W7-F1BP17A71803, 2 Ä

1.2 7Ä<0x 2 Z8E7A79E-FPÄ

W7-F1BP7A71803, Ä

2 ð

2.1 00x× f, 0ZGy± 466A6UIF1+0 × )8²

, 00PÄ7A7G-9C0x1A4E

D0C00xñ 8466Ä

2.2 093\$E8FE80PÄ

PÄ

2.3 7A1,6E-6%03, 29E1FE7A±

Ä66Ä5-8%CA± E708\$Ä

Ä6OGY0xN0J.7Ä6Ä7AÖ

2.4 01/9Ci+88kÄ

2.5 A75FP11D19FP00E-3 Ä

7080C0x6S+, 07-1A7A7C0xCS+Ä

3 A7-FP

3.1 -FPÉ

i0keEGÄG · 8eÄ995Ä7

É×eÄ

7C0xFPÄ×eÄ7fFPK46E

ú8Ä

3.2 -FPÄ

· ÄÄ1ÄE

R Ä

Ä

Ä-FPÄ

Ä7eFPAÄ: 15Ä

3 -Ö

7eFP> 1 -Ä

R ÄMOEBPMEÇNÈ ÄÄ

W ÄFPÄFP14NÇÄÄ

H 847éFPBP¼

,NÇ

7HJ. 847éFPBP¼)àññ

A8E

7E-98

W 8Çje

R8x

H 8

974FJ. Eje

R 847éFPBP¼

847éFPBP¼-98

H 8Çje

R 8

3.3 -FP0

| Ç                      | -FPG& | -FPé          | -FPé |   |   |    |    |
|------------------------|-------|---------------|------|---|---|----|----|
|                        |       |               | H    | W | R | Gÿ | 7# |
| 1                      | L     | Lbe\$e0       |      |   |   |    |    |
| 2                      |       | AD0           |      |   |   |    |    |
| 3                      |       | 8             |      |   |   |    |    |
| 4                      |       | 0             |      |   |   |    |    |
| 5                      |       | 847é<br>)85ž  |      |   |   |    |    |
| 6                      |       | 8ž            |      |   |   |    |    |
| 7                      |       | 88J080²       |      |   |   |    |    |
| 8                      | 8ž    | 8KT           |      |   |   |    |    |
| 9                      |       | 8E8ž          |      |   |   |    |    |
| 10                     |       | 880/8<br>8ž   |      |   |   |    |    |
| 11                     | × fg6 | +e × 1á       |      |   |   |    |    |
| 12                     | )à0   | 4Lbe\$e0<br>Ç |      |   |   |    |    |
|                        |       |               |      |   |   |    |    |
|                        |       |               |      |   |   |    |    |
| 0 H—E—)àññ · 847éFPBP¼ |       |               |      |   |   |    |    |

3.4 ) 768-FP, 2± F

3.4.1 7687éFP, 8(CtEa\*0+...

Ci+Ä

3.4.2 767éFPÖKÄ

3.4.3 767160E 10 6A7-FPNCSJ.7é

FPÄ

3.4.4 7éFP9s(0)L58<FPA799CtEAÖ

jM0± 7ÄÄ

3.4.5 7698BPMÖE7é

FPÄ

4 W7-P1BP¼

4.1 W7-P1BP¼, j 18A7, p9W7-1803, 2± Ä

4.2 W7-P1BP¼Ba8<Ö8j7öjÄ

4.3 W7-P1BP¼B6467-BP08X 168 8FÖE

PP86a7Ä

4.4 W7-P1BP¼a7k1ÄPW4âa7Äé

ACÖPka7CtEa7F

4.4.7 ± F68ÄPPÖP4MÖEÿ

+a7Ä

4.6 W7-P1BP¼764

(1)42kb7699ZÄ

(2)j166EÖÖ6, 6-ÉÄ1¼L03K5&

j40ÄL-T5047-959Ä-Ä

(3)šÄ) · 4 × , 1CÖÖ704

(3)4

(3)4

(3)4

(3)4

(3)4

(9)  $\text{EGB50093-2013} \times$

(10)  $\text{EGB50093-2013} \times 4 \text{ G60 f50L5190.4-2016} \times$

(11)  $\text{EGB50093-2013} \times \text{L/T774-2015} \times$

(12)  $\text{EGB50093-2013} \times \text{DGT16-89} \times$

(13)  $\text{EGB50093-2013} \times \text{GB50217-2018} \times$

(14)  $\text{EGB50093-2013} \times \text{L/T5437-2009} \times$

4.7 W7-P1BP1M0, 2035Qs88

A7A789003%87eA0

7e BP1M0, 888A

4.8 W7-P1BP1M0, 888A

W7-P1BP1M0, 888A

BP1M0, 888A

4  $\times$  GLA

F7-P1BP1M0, 888A

)P1BP1M0, 888A

Lt& 02± f

N0j0x

120 8800

24880x

35 88A

## Lt& 5

### 1 7

#### 1.1 j 7

± 7 + Xa 7, 7

j 7 - % 7 - 7 «

j 7 + 7

)àj = 7 7 >

| 7 | 7       | 7 | 7  |   | 7# |
|---|---------|---|----|---|----|
|   |         |   | 6p | ê |    |
| 1 | 7, 7    |   | 08 |   |    |
| 2 | 7 - P 7 |   | 08 |   |    |

### 1.2 7

#### 1.2.1 7, 4N 7

#### 1.2.2 9E<sup>3</sup>j, CS+O 7

#### 1.2.3 7, AA 7 - (7 - (7j 46)j 7 - O 7 7, ×

#### 1.2.4 D 7 7

#### 1.2.5 7 7 7, 7 7

### 1.3 7 7 CS



| ¿ | )AÝ | AÑ | )AÝ@ |   | &  | 7# |
|---|-----|----|------|---|----|----|
|   |     |    | 6p   | ê |    |    |
| 1 | B3B |    | C    |   | )à |    |
| 2 | 56  |    | C    |   | )à |    |
| 3 | 9E  |    | C    |   | )à |    |

2.3 )AÝ,´ &L\$ Ã ê Ã `&é1y s f µ é+a † ü é v Ê Ä

2.4 Å 7 é j 7 é )AÝ ê ^ ÄÂ 7 Ã j ` ÃCt É1y )AÝ ´ & È ¡ ÆO ï ¼ ÔFJ é ï È +OCi+X+a Å 7 é8 \*6 /

Lt&amp; 98

| 75FÖ |       |             |            | 85Ö   |      |    |
|------|-------|-------------|------------|-------|------|----|
| ñ'   | CW(0) | 7 · &<br>ε' | 7 · &<br>ñ | Ä · & | 7B\$ | 7# |
|      |       |             |            |       |      |    |
|      |       |             |            |       |      |    |
|      |       |             |            |       |      |    |
|      |       |             |            |       |      |    |
|      |       |             |            |       |      |    |

66Ä · 8 · 86, 2± 98676A040 · 82± Ä  
 66Ä · 8 · 86, 2± 98676A040 · 82± Ä



