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1.3 2
1.4 3
2. 4
2.1 4
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2.4 5
2.5 7
2.6 10
2.7 13
2.8 13
3. 14
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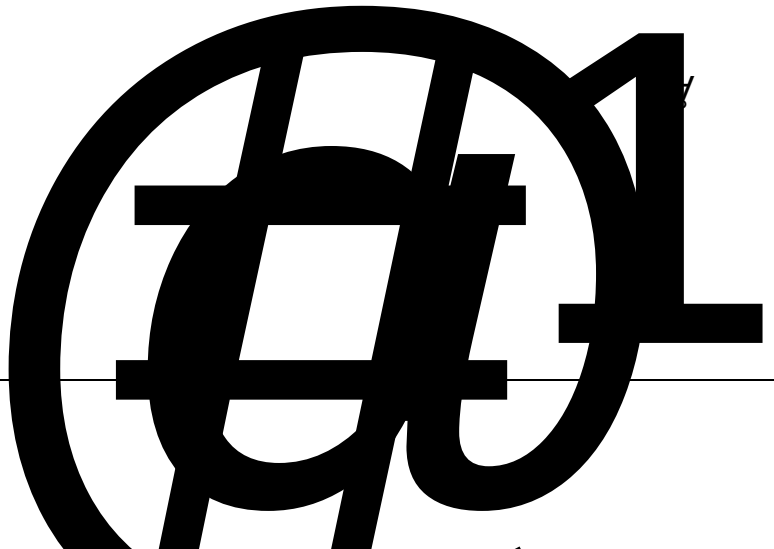
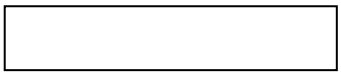


1.4

1.4-1



1.4-1

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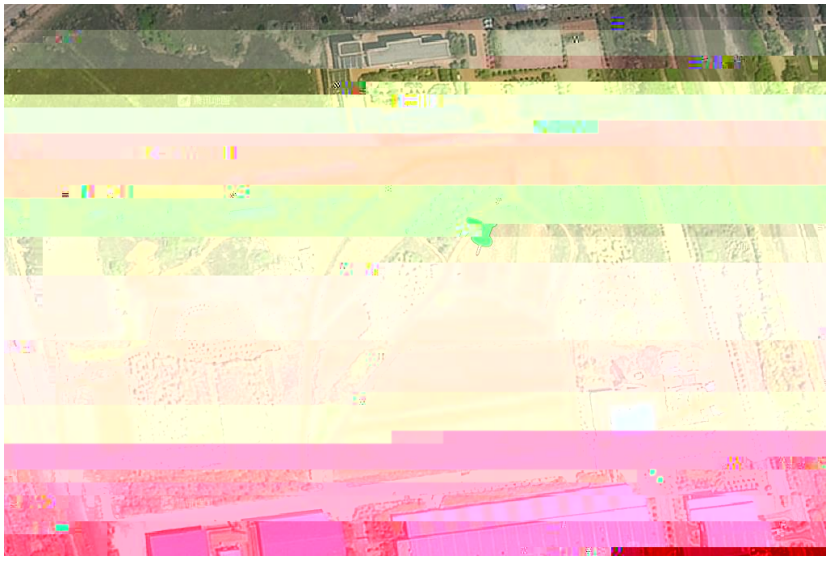
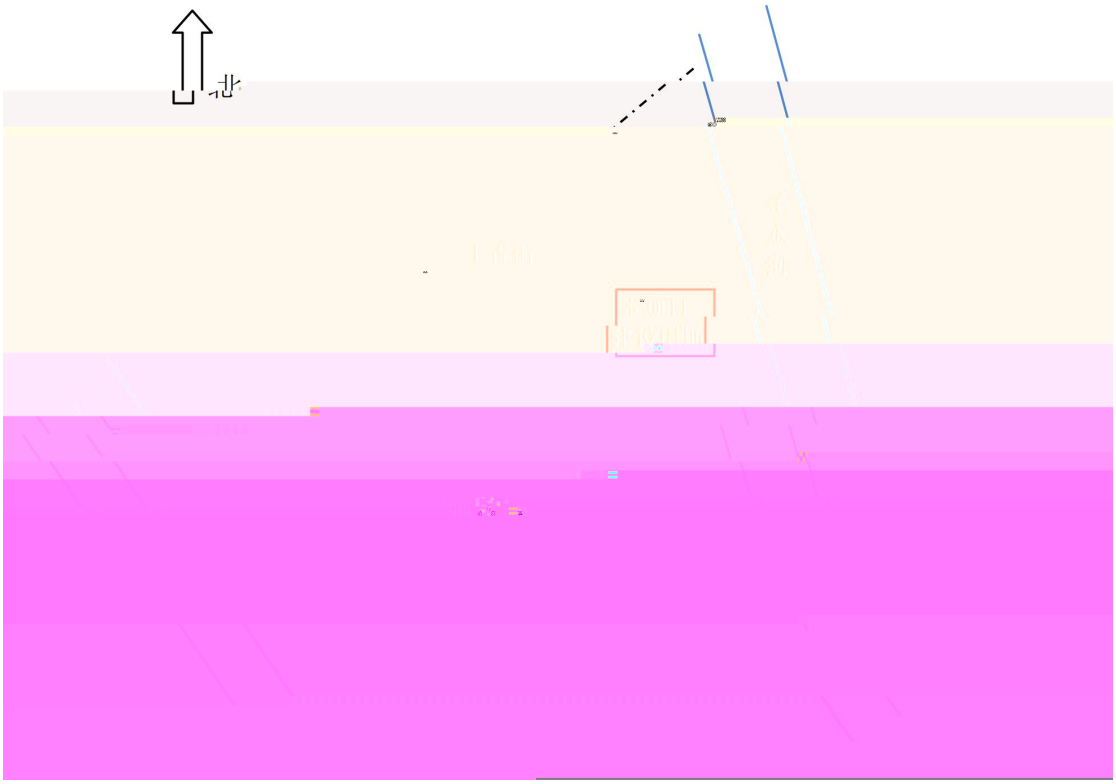
2.4-1 m

			m	m	
			-	258	-
			-	406	-



2.4-1



2.4-2

2.5

2.5.1

2.5.2

17021.76m^2 208.6m 81.6m

–

4m 20km/h

h 4.0m 2.5-1 2.5-1

6

38m×69m

2.5-1 m

			m	m	
			10	25.71	
			7.5	8	
			10	10.9	
			10	50.29	
			-	-	-
			-	20.86	-
2018 GB 50016-2014 3.4.1 5% 2018 GB 50016-2014 3.4.1 25% 2018 GB 50016-2014 3.5.2					

2.5-1

2.5.3

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2.6.1

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IBC IBC 1m^3

2

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2.6.5

C S

2.6.6

20L/s 2h

144m^3 1

418.5m^3 15.5m×6m×4.5m 2

18m^3/h 2

4

3km 5min

A

3 3Kg

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3.1-1

		CAS	UN					%				
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3.2-1

3.2-1

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-26

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66

84.7

56.7

3

100.54KPa

101.39KPa

99.78KPa

4

658.7mm

171.1mm

66.1mm

78d

5

370mm

40kg/m^3

6

5.4m/s

60kg/m^3

10m 30m/s

7

120mm

4

8

20.3d

30d

11d

9

3 8 7

1000m 28d

10

0.65kN/

0.40kN/

2

3.57 6.27m 2.7m

3

30 50°

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GB50057-2010

4

-26

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7.3

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10%~20%

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5.1.6

3 GB50489-2009 5.1.7

4 GB50489-2009 5.1.8

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5 GB50489-2009 5.1.10

6 GB50489-2009 5.1.13

7 GB50489-2009 5.1.14

8 GB50489-2009 5.

5		GB 15603-2022	5.5
	A		
6		GB 15603-2022	5.8
	GB50016		
7		GB 15603-2022	6.1.1
8		GB 15603-2022	6.1.2
9		GB 15603-2022	6.2.1

e) 50 cm

13 GB 15603-2022 7.1

14 GB 15603-2022 7.2

15 GB 15603-2022 7.3

16 GB 15603-2022 7.4

17 GB 15603-2022 7.5

18 GB 15603-2022 7.6

19 GB 15603-2022 8.3

20 GB 15603-2022 8.4

21 2018 GB50016-2014 3.8.1

2 5m

22 GB17915-2013 4.3.1

23 GB17915-2013 4.3.3

24 GB17915-2013 4.5
≤30 ≤80%
25 GB17915-2013 5.2.2.2
26 GB17915-2013 5.2.2.3
27 GB17915-2013 5.2.3
1 3m
2 1.5m 3 3m
2.5m 4 3m-3.5m
28 GB17915-2013 5.2.4
1 ≥180cm 2 ≥80cm 3

33 GB/T 50046-2018 5.1.6

C30

34 GB/T 50046-2018 5.1.12

300mm 100mm

35 GB/T 50046-2018 5.1.13

36 GB/T 50046-2018 5.4.2

37 GB/T 50046-2018 5.4.3

38 HG20571-2014 5.6.5

15m

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39 2024

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GB 50223

40 2024 GB/T50011-2010

3.3.1

41 2024 GB/T50011-2010

3.3.4

42 2024 GB/T50011-2010

3.4.1

43 2024 GB/T50011-2010

3.5.2

3.7.1

45 2024 GB/T50011-2010

3.7.4

46 2024 GB/T50011-2010

3.9.4

Ä47 2024 GB/T50011-2010

3.9.6 -

48 2024 GB/T50011-2010

3.10.1

8.1.3

1 GB50054-2011 7.6.5

2 Å É Ê GB50054-2011 7.6.6 È

50mm

200m

4		GB50052-2009	7.0.2
5		GB50052-2009	7.0.10
6			3.3.5
7		GB50054-2011	5.1.1
8		GB50054-2011	6.1.1
9		XF 1131-2014	8.1
	JGJ16		
10		XF 1131-2014	8.5
11		XF 1131-2014	8.6
12		XF 1131-2014	8.7

13		XF 1131-2014	8.8

20 HG/T 20666-1999 6.0.3

21 HG/T 20666-1999 6.0.4

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22 HG/T 20666-1999 6.0.7

1 GB50057-2010 4.1.2 1

2 1

2 GB50057-2010 6.1.2 TN TN-S

3 GB 50169-2016 4.2.9

GB 50019-2015

6.1.10

1	GB/T 50115-2019	6.1.3
2	GB/T 50115-2019	6.1.4
3	GB/T 50115-2019	6.1.5
4	GB/T 50115-2019	7.5.2

1	XF 1131-2014	3.4
GB15630		
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2	XF 1131-2014	6.2

3	XF 1131-2014	6.3
4	XF 1131-2014	6.5
5	XF 1131-2014	6.6
6	XF 1131-2014	6.7

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6 XF 1131-2014 3.3.1

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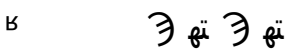

9.4

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A.

A.0.1

B

B.0.1

B.0.2

Preliminary Hazard Analysis PHA

B.0.3

Fault Tree Analysis FTA

FTA

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C.0.1

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[ ] C S

C.0.1-1

C.0.1-1 [ ]

214

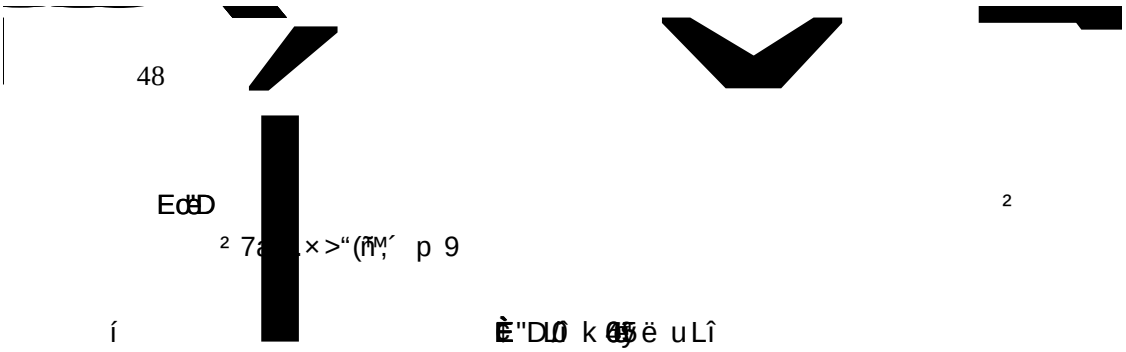
UN 3264

battery fluid acid

8

LD50 288mg/kg ( )

LD50 4450mg/kg



	( )

C.0.2

C.0.2.1

[ ] C S

C.0.2.2

[ ] C S

C.0.2.3

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$S=q_1/Q_1+ q_2/Q_2……+ q_n/Q_n≥1$

S—

q_1 $q_2…q_n$ — t

Q_1 Q_2 …Q_n— t

C.0.3.2

[ ] C S

C.0.4

C.0.4.1

C.0.4-1

C.0.4-1

1		3.0.1		

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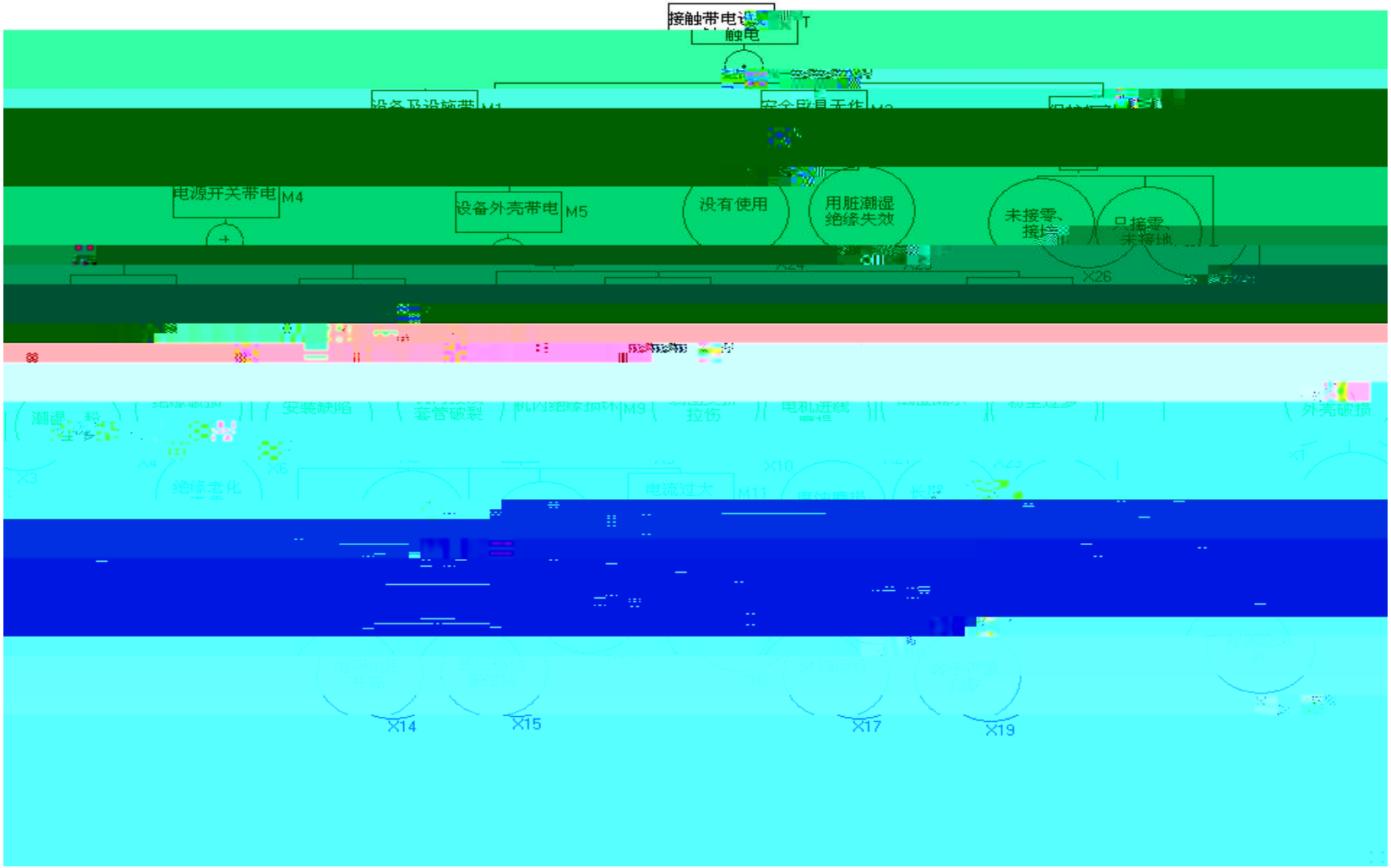
触电
电源开关带电 M4
设备外壳带电 M5
没有使用
用脏潮湿绝缘失效
未接零、接错
只接零未接地
X26
X14
X15
X17
X19

C.0.6-1

6

3

X12 X25 X27 X13 X25 X27 X5 X25 X26

X5 X25 X27 X6 X25 X26 X6 X25 X27

X21 X25 X26 X21 X25 X27 X22 X25 X27

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10 682 2017 10 1

11 714 2019 4 23

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13 393 2004 2 1

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16 2010 23 2010 7 19

17 92 2022 4 21

18 13 92 2022 04 21

19 2020 3 30

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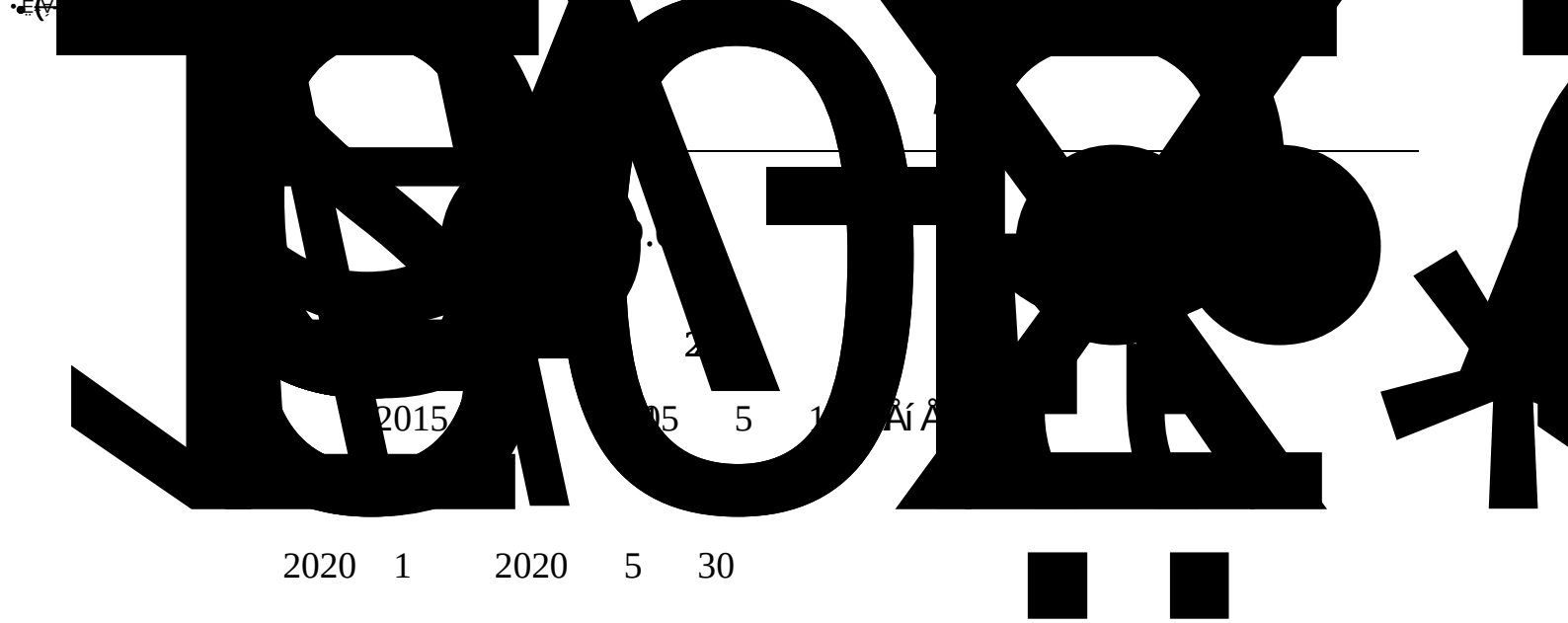

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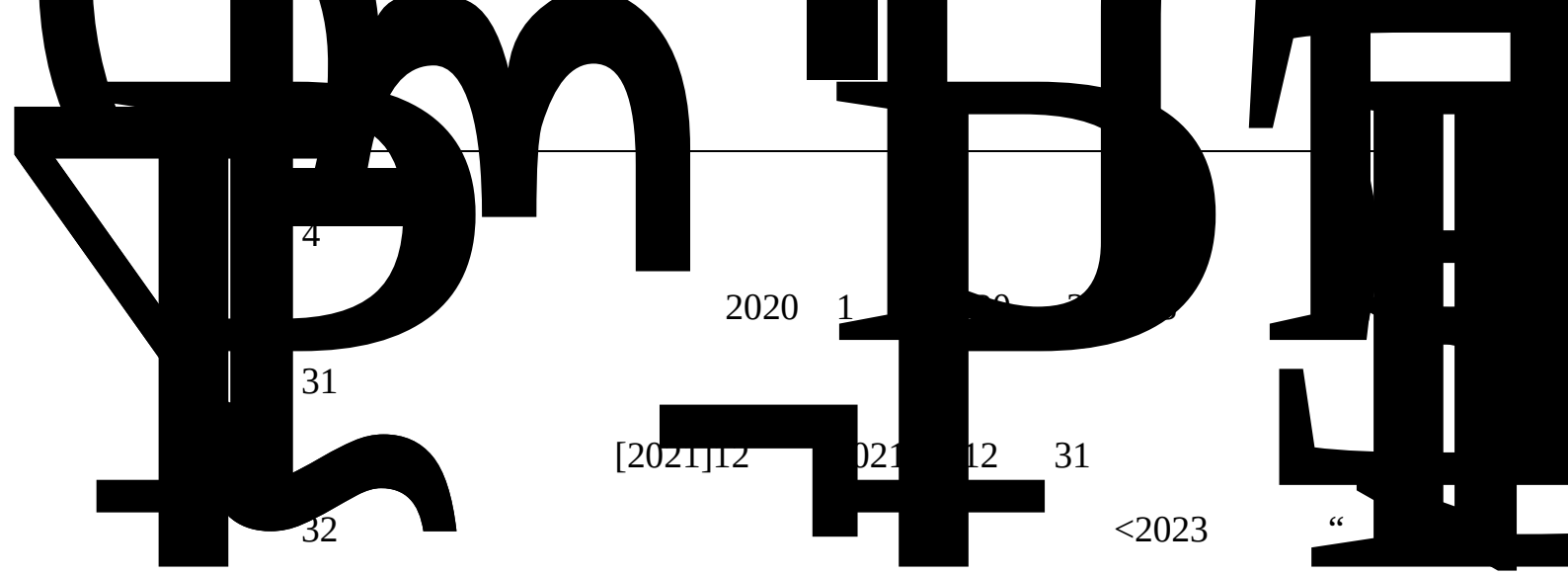

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30		G 974-20
31		GB182 2018
32		GB1 0-2009
33		GB 230-20
34		GB/T 13861-2022
35		GBZ 1-2010
36	1	
GBZ2 019		
37	2	
GBZ2 007		
38		
T5 3-20		
39		GB50140-2005
40		GB15630-1995
41	-2009	GB50052-2009
42		

51 GB/T 29639-2020

52 AQ/T9007-2019

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