5961-H/HK/2015310(1)K-A02

建设项目环境影响报告表

220kV 110kV

2016 4

1 — 30 (
)

2 —

3 —

4 —

5 —

6 —

7 —

8 —

1

	220kV 110kV				
	599				
	0512-57155543				215334
	√ □ □			D4420	
	31 568.5m^2				
	7653		58		0.76%
	-			2017	

1 110 2.1km 2 ×1.6km 0.5km

2 110 2.1km 2 ×1.6km 0.5km

3 110 3.2km 2 ×2.0km 1.2km

/	——	/	
/	——	/	——
/	——		——

□ □

110kV

110kV

110kV

2

2.1

220kV 220kV

110 220kV

110kV

2.2

220kV 110kV

2011 2013 “ ” “

”

2.3

2.1

2.1

220kV 110kV	110		2.1km 2 ×1.6km 0.5km	
	110		2.1km 2 ×1.6km 0.5km	
	110		3.2km 2 ×2.0km 1.2km	

2.4

1

110kV

220kV 110kVGIS

A1 A2

A3 220kV / A4

220kV 2977 2978 A5 110kV 1653

110kV164C 2.1km

1.6km 0.5km

110kV

220kV 110kVGIS

B1 B2

B3 220kV / B4

220kV 2977 2978 B5 110kV 1653

110kV164C 2.1km

1.6km 0.5km

110kV

220kV 110kVGIS

G1 220kV G2

500kV

G4

110kV164C 8# (110kV1653 45#)

3.2km 2.0km 1.2km

2

2×JL/G1A-300/25 2 OPGW-120

YJLW03-64/110kV-1×1000mm^2

31 110kV

10 110kV 10 110kV

11 2.2

3

2.3

2.3

110kV		1		
		3		
	220kV	1		
	10kV	2		
		5		380V
		5		
		5		
110kV		1		

		3		
	220kV	1		
	10kV	2		
		5		380V
		5		
		5		
	10kV	5		
		8		380V
	35kV	1		
110kV	500kV	1		
		2		
		6		
		16		
	( )	1		
		8		

110-750kV GB50545-2010 110kV

2.4

2.4

			m	
1			7.0	
2			6.0	
3			5.0	
4			2.0	
5			4.0	
6			3.5	
7			3.0	
8			7.0	+70℃
			7.0	
9			3.0	
			6.0	
10			3.0	
11			3.0	

110kV 7m

6m

4

2.5

220kV 110kV

2.6

1

110kV

31 17 14

0.5m^2 40m^2 568.5m^2

31 50m^2

2 200m^2 4 600m^2 4

200m^2 5m

11000m^2 16150m^2

15~30cm

2

110kV

110kV

110kV

110kV

110kV

2.7

1

2

110kV 7m

6m

3

3.1

3.1.1

120° 48 21 121° 09 04 31° 06 34 31° 32 36

3.1.2

2.8m 3.7m 5m 6m 3.4m

GB18306-2001 VI

3.1.3

17.6 1200.4mm 1789.2

3.1.4

1056.32km 62 457.51km 41 10

0.80m

110kV 75m

3.1.5

220kV 110kV

[2013]113

3.2

3.2.1

927km^2 10 1

3.2.2

3.2.3

4

4.1 110kV

9.0×10^{-4}~3.2×10^{-1}kV/m 0.057~0.131μT

GB 8702-2014 “ ” 4kV/m

100μT

4.1 110kV

41.6~43.4dB(A) 39.8~40.7dB(A) 2

60dB(A) 50dB(A)

3

110kV

4.5

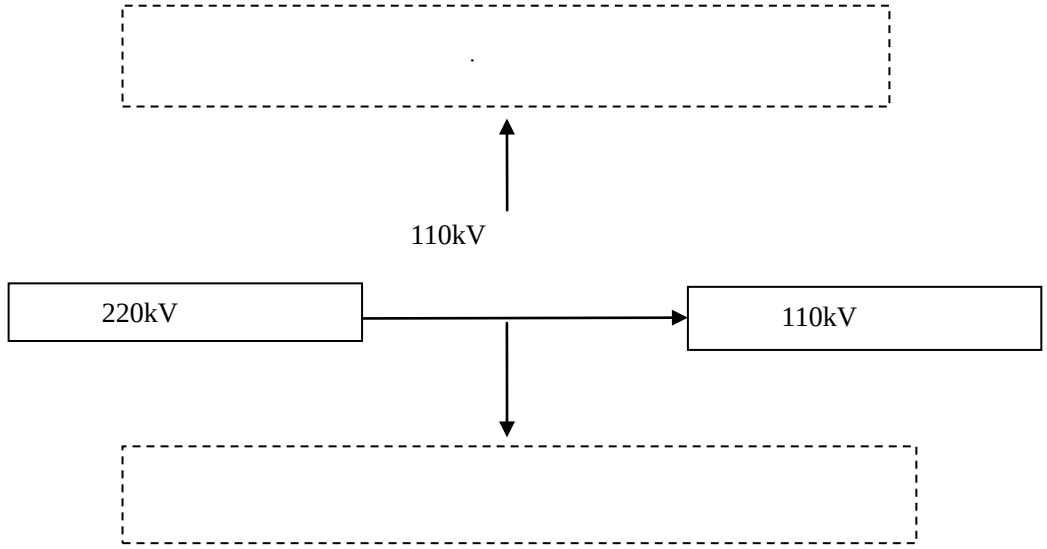
5

	1 GB3096-2008 2 60dB A 50dB A **2** GB12523—2011 70 dB A 55dB A
	1 GB8702-2014 1 “ ” 4kV/m 100μT 50Hz 10kV/m

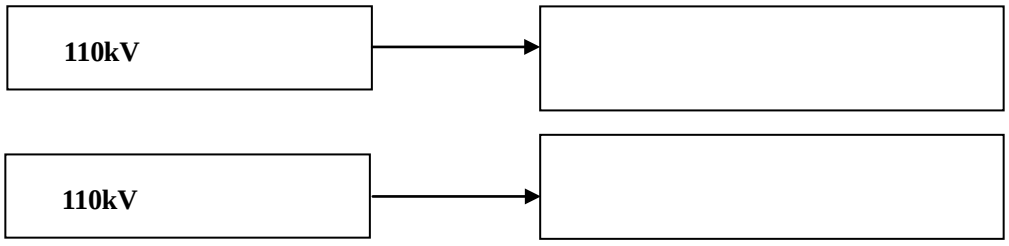
6

220kV 110kV

6.1



6.1 110kV



7

		TSP		
		SS BOD_5 COD	—	
			—	4kV/m 100μT 10kV/m
			—	
			87 99dB A	GB12523-2011
	110kV			

220kV 110kV 31

568.5m^2

“ ”

8

8.1

8.1.1

1 2015 1 1

2 2003 9 1

3 2008 2 28

4 2000 9 1

5 1997 3 1

6 2005 4 1

7 2011 3 1

8 2004 8 28

9 2002 6 29

10 1995 12 28

11 253

12 2

13 1987 9 15 239

1998 1 7 588

2011 1 8

8.1.2

1 1997 18

2 2012 77

3 2012 131

4 2011 2013 21

2013 5 1

5 2011 35

6 2 2008 10 1

8.1.3

1 2008 5 1

7

1997 8 16

2 112

2012 2 1

3 2012 1 12

2012 2 1

4 2013~2022

2013 86 2013 7 20

5 2013

113 2013 9 23

8.1.4

1 HJ 2.1-2011

2 HJ2.4-2009

3 HJ2.2-2008

4 HJ19-2011

5 HJ24-2014

6 HJ/T10.2-1996

7 HJ681-2013

8 HJ/T169-2004

9 GB 8702-2014

10 GB3096-2008

11 GB12523-2011

8.1.5

220 110

2015 12

8.2

8.1

		Leq	Leq
		Leq	Leq

8.3

HJ/T2.1-2011

HJ24-2014 HJ2.4-2009

HJ19-2011

8.3.1

HJ24-2014

8.2

8.2

	110kV		1 2 10m	
			10m	

8.2 110kV 5m

10m

8.3.2

“ — ” 2km^2

HJ19-2011

8.3.3

GB3096-2008

2 HJ2.4-2009

8.4

HJ24-2014

HJ2.4-2009 HJ19-2011

1

30m 5m

2

30m

3

300m

9

9.1

1

2

-
- GB12523-2011

3

15m

TSP

-

-
-
-
-
-
-
- “ ”

4

110kV

-
-
-
-

5

110kV

6

- 110kV

  110kV

-

-

-

-

-

-

7

9.2

9.2.1

110kV 41.6~43.4dB(A)
39.8~40.7dB(A) 2 60dB(A) 50dB(A)
110kV 110kV

9.2.2

110kV
GB 8702-2014 “ ”
4kV/m 100μT

9.2.3

9.2.4

10

220kV 110kV

2016 3 14 ~3 25 220kV 110kV

10

11

		TSP		TSP 0.3mg/Nm^3
		COD SS BOD_5		
			6m 7m	<4kV/m <100μT 50Hz 10kV/m
				GB12523-2011

12

12.1

12.1.1

1

110 2.1km 2×
1.6km 0.5km
110 2.1km 2×
1.6km 0.5km
110 3.2km 2×
2.0km 1.2km

2

220kV 220kV
110 220kV
110kV

12.1.2

220kV 110kV
2011 2013 “ ” “
”

12.1.3

1

110kV 9.0×
10^{-4}~3.2×10^{-1}kV/m 0.057~0.131μT GB
8702-2014 “ ” 4kV/m 100μT

2

110kV
41.6~43.4dB(A) 39.8~40.7dB(A) 2
60dB(A) 50dB(A)

12.1.4

1

2

7m 6m

12.1.5

1

110kV

GB 8702-2014 “ ”

4kV/m 100μT

2

110kV 110kV

3

110kV

4

12.1.6

220kV 110kV

110kV

12.2

1

2

3 110kV

220kV 110kV

1

110 2.1km 2×1.6km 0.5km

110 2.1km 2×1.6km 0.5km

110 3.2km 2×2.0km 1.2km

2

110kV 5m

10m

3

HJ24-2014

30m 5m

4

4.1

110kV

110kV

4.1.1

110kV 1.23~2.08 $\times10^{-3}$kV/m

5.16×10^{-2}~1.42×10^{-1} μT 4kV/m 100μT

800m^2 1000m^2

35.3A 2500m^2 580A

0.142μT 16.4 2.3μT

100μT

110kV

GB8702-2014

4kV/m 100μT

4.1.2

1

110kV

110kV 2# LGJ-400/35

54#~53# 19m 220kV 7

2011 C45

2011 12

110kV 0.006kV/m

~0.127kV/m 0.208μT ~1.719μT GB8702-2014

4kV/m 100μT

110kV

4.2

1

HJ24-2014

C

-

r h

$$\begin{bmatrix} U_1 \\ U_2 \\ \cdots \\ U_n \end{bmatrix} = \begin{bmatrix} \lambda_{11} & \lambda_{12} & \cdots & \lambda_{1n} \\ \lambda_{21} & \lambda_{22} & \cdots & \lambda_{2n} \\ \cdots & \cdots & \cdots & \cdots \\ \lambda_{n1} & \lambda_{n2} & \cdots & \lambda_{nn} \end{bmatrix} \begin{bmatrix} Q \\ Q_2 \\ \cdots \\ Q_{n1} \end{bmatrix}$$

[U]——

[Q]——

[λ]—— m m

[U] 1.05

[λ]

-

x y E_x E_y

$$E_x = \frac{1}{2\pi\varepsilon_0}\sum_{i=1}^{m} Q_i \left(\frac{x - x_i}{L_i^2} - \frac{x - x_i}{(L_i^{'})^2} \right)$$

$$E_y = \frac{1}{2\pi\varepsilon_0}\sum_{i=1}^{m} Q_i\left(\frac{y-y_i}{L_i^2} - \frac{y+y_i}{(L_i^{'})^2}\right)$$

x_i y_i—— i i=1 2 …m

m——

L_i $L_i^{'}$—— i

110kV

1%~2%

D

“ 36.01 ”

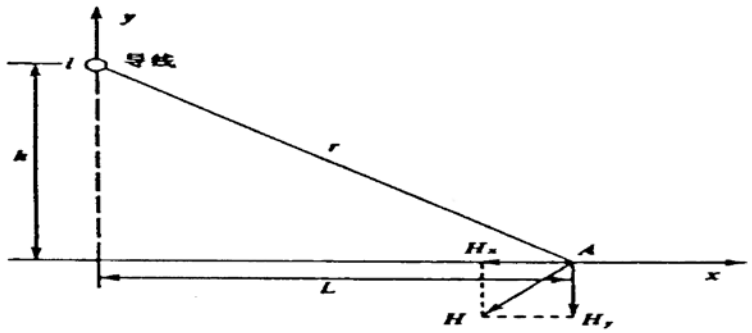
110kV A 4.1

$$H = \frac{I}{2\pi\sqrt{h^2 + L^2}}$$

I—— i

h—— A

L—— A



4.1

2

110~750kV GB50545-2010 110kV

6.0m 7.0m

110kV 4.3

4.3 110kV

	110kV
	2×JL/G1A-300/25
	110kV
	23.8mm
	1F3-SZ2

3

4.4 7m 1.5m

3.564kV/m 4kV/m

4.4 110kV 6m

1.5m 4.205kV/m 10kV/m

4.5 7m 1.5m

10.373μT 100μT

4.5 110kV 6m

1.5m 11.541μT 100μT

7m 6m

GB8702-2014 “

” 4kV/m 100μT

5 110kV

4.6

4.6

				kV/m	μT
1		1	E 8m	1.373	8.381
2		3	W 11m	0.469	7.629

5

110kV~750kV GB50545-2010

7m 6m

6

220kV 110kV

GB8702-2014 “ ” 4kV/m

100μT