

00

[2002]10

[1999]101

2002 3 1

[1992] 375

50%

50%

MM

50%

o o

1

1.0.1

1.0.2

1

2

1.0.3

1.0.4

1

$\times 1 \pm$

2

3

$\times$

$\times$

4

=

$\times$

1.0.5

1.0.6

1.0.7

1.0.8

, ,

1

1.0.9

≥ 35

≤ -10

1.2

1.0.10

2000m

2000 3000m 1.1

3001 3500m 1.2

3501 4000m 1.3

4001m

1.0.11

5%

1.0.12

1.0.13

1000 /
1360 /
1680 /

1.0.14

4

1.0.15

1.0.1

2

2.1

22

2.2

2.2-1

		≤ 20m	≤ 80m
		≤ 20%	≤ 40%
		≤ 5 ≤ 30%	≤ 8 ≤ 50%

2.2-2

			()		
1				4263	4842
				3136	3565
				2737	3112
				1096	1244
				728	829

					km	2818	3203	4122		
						2186	2484	3196		
						1552	1764	2269		
						1086	1234	1589		
						759	863	1112		
						89	101	131		
						km	877	997	1283	
							438	500	643	
							220	250	323	
							167	188	242	
							111	124	162	
		GPS		C			3727	4274	5500	
							D	3198	3632	4671
							E	2821	3203	4123

2				1:200	km ²	76780	102374	163795
				1:500		33383	44510	71216
				1:1000		15174	20232	32374
				1:2000		6676	8901	14244
				1:5000		1975	2630	4210
				1:10000		1109	1478	2364
					1	200	1.8	
					2.0			

3			1:200	km	1016	1354	1864
			1:500		785	1047	1440
			1:1000		607	809	1113
			1:2000		468	625	860
			1:5000		362	481	665

4					2698	3372	5733
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2.2-3

1	()				0.6	
2					0.5	
3					0.5	
4					1.2	
5	GPS	C	D	E	0.6	
6					0.6	2.2-2
7					0.48	
8					0.7	
9					0.4	

10	20cm	1.3	
11		1.1	
12	60%	1.2 1.5	
13	1:200	1.6	
14		1.5	

2.3

2.3-1

	≤ 300m 3cm	≤ 700m 2cm	700m ≤ 2cm
	≤ 5m	≤ 15m	15m
		1.5m	1.5m

2.3-2

					()		
1			1:200	km ²	204748	272301	382875
			1:500		89020	118396	166468
			1:1000		40464	53817	75680
			1:2000		17803	23680	33294
			1:5000		5260	7002	9838
			1:10000		2955	3924	5530
2			1		1.5		
3			1:200	km	3245	4316	6474
			1:500		2636	3506	5261
			1:1000		2023	2698	4046
			1:2000		1559	2075	3112
			1:5000		1268	1686	2529

2.4

2.4-1

	1 3	4 5	5

	km ≤ 10	km ≤ 20	km 20
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2.4-2

			()		
1		km	1206	1446	1880
2			1416	1700	2337
3			1624	1948	2599

2.5

2.5-1

≥ 2.0 m	≥ 1.8 m	1.8 m
≥ 15m	≥ 11m	11m

2.5-2

		()		
	km	2698	4384	6744

2.6

2.6-1

						()		
1				1:500	0.25m²	459	689	1102
				1:1000		756	1099	1732
				1:2000		1049	1509	2362
				1:5000		1966	2739	4215
				1:10000		2882	3969	6066
	2.0							
2				1:2	100cm²	24	34	56
				2:5		28	40	72
				1.5				
							1:2	14
	2:5	18	24				41	
3						1000		
4						3	3	

5				1000
---	--	--	--	------

3

3.1

3.1-1

	%
	120
	100
	80

1

2.

3.2

3.2-1

3.2-2

1		1 200	16065
		1 500	8033
		1 1000	5355
		1 2000	3570
		1 5000	1071
		1 10000	536
		1 25000	268
		1 50000	134
2		1.3	
3		1.5	

3.3

3.3-1

$\leq 25\%$	25%	$\leq 50\text{mm}$ 50% ()	$\leq 100\text{mm}$ 50% ()	100mm 50% () ()

3.3-2

D/	L m						
$D \leq 10$		46	71	117	207	301	382
10 $D \leq 20$		58	89	147	259	377	477

3.3-3

						≤ 30m	30m
			φ=80 100mm L=150 200mm			40	50
			φ=80 100mm L=150 200mm			65	95
			φ=75mm L=800mm			310	460
			φ=75mm L=800mm			420	620
			φ=75mm L=800mm			360	560
			φ=75mm L=200mm			150	240

			20 D ≤ 30				210	495	619	701
			30 D ≤ 40				249	587	734	832
			40 D ≤ 50				297	700	875	991
3			D ≤ 10		34	49	82			
			10 D ≤ 20		43	62	102			
			20 D ≤ 30		51	74	122			
			30 D ≤ 40		61	88	145			
			40 D ≤ 50		72	105	173			
			50 D ≤ 60		80	116	193			
			60 D ≤ 80		89	129	214			
			1.15							
			1.2							
		4			D ≤ 10		66	99		
10 D ≤ 20	83				124					
20 D ≤ 30	99				149					
30 D ≤ 40	116				173					
40 D ≤ 50	132				198					
			50 D ≤ 60		158	238				
			60 D ≤ 80		198	297				
			D ≤ 10		206					
			10 D ≤ 20		227					

		m²	400				5490		6040		
			500				6400		7040		
			500				4.2-1		1		
8		m²						≤ 500 kPa		500 kPa	
		0.10					2775	3330	3330	3996	
		0.25					3965	4758	4758	5710	
0.50				5156	6188		6188	7425			
9			(kN)								
			≤ 500				6786		7488		
			1000				7424		8237		
			1000 500				1.1				
10							3978		4563		
							9945		11412		
							8775		9891		
							7020		7605		
11											
		/					29250		58500		
							35100				
12			D	D ≤ 20			1753				
				D 20			2104				
							409				
							205				

3.3-5

1					1.5		
2					2.0		
3					1.3		
4					1.3		
5					3.0		
				D(m)	D ≤ 10		2.0
					10 D ≤ 20		2.5
					D 20		3.0

			1.5	
			1.2	
6			1.2	3.3-4 1 6
7			1.1 1.3	
8				
9	3	3		

4

4.1

4.1.1

4.1.2

4.1-1

	I		
	$H \leq 6.0m$	$6.0m \leq H \leq 12.0m$	$H \geq 12.0m$
	$F \leq 1000m^2$ $0.5 m/d \leq K \leq 20m/d$ $S \leq 7.0m$	$1000m^2 < F \leq 2000m^2$ $0.5m/d \leq K \leq 50m/d$ $7.0 m \leq S \leq 13.0m$	$F > 2000m^2$ $K \leq 0.5m/d \leq K \leq 50m/d$ $S \leq 13.0m$

4.1-2

	10	50	100	500	1000	2000
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- 1.
2. 0.5 0.5
3. 2000 I 3.5% 4.5% 5.0%
4. 4.1.1.1

4.2

4.2.1

22%

4.2.2

4.2-1

1		(kn)	≤ 500			6400
			1000			10000
			3000			15000
			5000			25000
			10000			40000
			15000			55000
			20000			70000
			20000 5000			1.25
		φ (mm)	φ ≤ 500			5000
			500 φ ≤ 800			7000
			800 φ ≤ 1000			9000
			φ 1000			12000
2						500
		(kn)	≤ 1000			3500
			3000			4500
			5000			6000
			10000			9000
			10000 5000			1.25
		3		D(m)		D<30
30 D ≤ 40					1500	
40 D ≤ 50					1800	
50 D ≤ 60					2200	
D 60					2600	
4						60
						100

							1000
							500
							1.1

4.2-2

4.2-3

1									
						3272	2618	4593	3674
						2181	1745	3062	2450
						1606	1285	2253	1802
						1402	1122	1968	1574
		150m		200m					
					km	1459	1167	1980	1584
						1216	973	1650	1320
						1029	823	1386	1109
						538	430	802	642
1km		1km							
						91	163	135	243
						74	134	112	201
						62	112	93	167
						53	95	78	140
					59		91		
					50		74		
					42		62		

5		.	23
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5.3-1

				()		
1			km ²	760	1080	1400
2				608	864	1120
				730	1037	1344
				1094	1555	2016
				1216	1728	2240
				912	1296	1680

5.3-2

				()			
		1:5000		768	960	1152	2.2-1
		1:10000		640	800	960	
		1:25000		512	640	768	
		1:50000		384	480	576	
		1:100000		320	400	480	
		1:250000		256	320	384	
		1:500000		192	240	288	

5.4

5.4-3

		D ≤ 50	1.2
		50 D ≤ 100	1.0
		100 D ≤ 150	1.2
		150 D ≤ 200	1.4
		200 D ≤ 250	1.7

6					420
7					170
		L km	L ≤ 5		20
			5 L ≤ 10		40
			L 10		50
		1.3			
8		3.3-3			

5.6

5.6-1

						()
1			D (m)	D ≤ 300		840
				300 D ≤ 1000		6800
				1000 D ≤ 2000		10200
				D 2000		13600
				D ≤ 300	M	20400
				D 300		3400
				D ≤ 100		5100
				100 D ≤ 200		30
				D 200		40
						50
2				D ≤ 200		20000
				200 D ≤ 1000		30000
				1000 D ≤ 1500		40000
				D 1500		50000

5.6-2

				()
1				840
				8000
				2000
				4500
2		D (m)	D ≤ 50	5000
			50 D ≤ 100	10000
			D 100	15000
3				

6

6.1

6.2

6.2-1

6.2-2

				()		
1				54600	78100	109300
				6900	9900	13900
				29100	41700	58400
				32800	46900	65600
				9100	13000	18300
				16400	23400	32900
				102100	145800	204100
2				47400	67700	94800
				91200	130200	182300
				47400	67700	94800
3				51000	72900	102100
				76500	109500	153200
				12400	17800	24800
4				21900	31300	43800
				32900	47000	65600
				3300	4900	6800
				2700	3900	5400

6.3

6.3-1

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1			5600	8000	11300
2			5500	7800	11000
3			3300	4900	6800
4			5000	7300	10200
5			1800	2600	3600
6			5500	7800	11000

7

7.1

22%

7.2

7.2-1

1					.	18
						25
						45
						220
						130
						260
2					km	18
						14400
						21600
			D ≤ 10			1800
			10 D ≤ 20			2520
			20 D ≤ 30			3240
			30 D ≤ 50			4320



4	3
6	5
8	6
12	10
3	
2160	
3600	
320	
5760	
0.5	

7.2-1

20	
14	
	20
6300	



		2.4-1 3 3										
14						km	3600					
							4500					
							3600					
							3600					
		3	3									
15							1440					
							2160					
							3600					
							4500					
							6300					
16						m	23					
							27					
							45					
							41					
							108					
							108					
			D (m)	D ≤ 100			14					
				100 D ≤ 300			27					
				300 D ≤ 500			32					
				D 500			45					

7.2-1

											()
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				D 50		14400
						1.3
						1.2 3.0

8

8.1

10

8.2

8.2-1

			()	
1			8	
2			8	
			18	
3			19	
4			26	
			40	
			70	
			49	0.002mm
5			47	12
			23	
			15	
6			30	
7			23	
8			14	
9			52	
10			319	
			638	
11			55	
			29	
12			264	1.3
			497	
13			40	12
			116	15
14			53	
15			23	
16			137	5
			56	2
17			413	

	$\leq 600\text{kPa}$			775	
				930	
				1240	
18				29	17
				56	
19				49	30
				71	
				99	
20				133	
21				14	
22				27	
23				36	
24				56	
25				258	
26				30	
27	$\leq 600 \text{ kpa}$	() ()		4341	
		() ()		9096	
		()		1447	
		()		3514	

8.3

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8.4

8.4-1

				()
1	(mm)	Φ50 70		19
		50 × 50 × 50		35
		50 × 50 × 100		38
		70 × 70 × 70		43
		100 × 100 × 100		69
2	(mm)	50 × 50 × 50		38
3	(mm)	50 200		16
4				14
5				27
				59

8.4-2

			()	
1			14	
2			47	
3			14	
			14	
			18	
4			47	3
5			117	
6			47	
			70	
7			185	
			233	
8			760	5
9			93	3
10			269	5
			289	
11			26	
12			2455	25 3
13			52	

8.4-3

			()
1			23
2			81
3			70

4	SiO ₂		103
5	R ₂ O ₃		52
6	Fe ₂ O ₃		14
7	Al ₂ O ₃		21
8	CaO		26
9	MgO		5
10	MnO		29
11	TiO ₂		29
12	K ₂ O		65
13	NaO		52
14	P ₂ O ₅		18
15	SO ₃		23

10.1.3

× 1±

× × ×

10.1.4

10.1.5

10.1.6 15 20%

10.2

10.2—1

%	60	68	68	73	73
%	10	4	4	3	3
%	30	28	28	24	24

10.2—2

1		1.40
2		1.04
3		1.70
4		0.5 0.55
5		0.8
6		0.3 0.4
7		0.84 0.92
8		0.76 0.88

10.3

10.3 1

1	H (m)	H<30	-5	6			-2
		30≤H 50	-2				1
		50≤H 70	1				2
		70≤H 150	3				3
		150≤H 250	5	7		10 m	-2
2			-1			10 20 m	1

			1			20 40 m	2
		3 km	2			40 60 m	4
			3	8			-2
			4				1
3			-2				2
			0				3
			1	9		10 m ³	0
			2			10 100 m ³	2
4		X	3			100 500 m ³	3
			-2			500 m ³	4
			1	10			-1
			2				2
5			3				3
			-2	11			-1
			1				1
			2				3
			3				

10.3 2

	≤ 3	3 10	≥ 10
	≤ 30%	≤ 60%	60%
	≤ 30%	60% ≤	60%

10.3 3

1			0.7

2

4			1.2
5		60 m	1.1
6		≥ 8	1.1 1.2
7		250 m	1.1
8		1000 m 8 km	1.2
9			1.05 1.5

10.4

10.4 1

1	200	9
2	500	20.9
3	1,000	38.8
4	3,000	103.8
5	5,000	163.9
6	8,000	249.6
7	10,000	304.8
8	20,000	566.8
9	40,000	1,054.0
10	60,000	1,515.2
11	80,000	1,960.1
12	100,000	2,393.4
13	200,000	4,450.8
14	400,000	8,276.7
15	600,000	11,897.5
16	800,000	15,391.4
17	1,000,000	18,793.8
18	2,000,000	34,948.9

2,000,000

1.7

11.

11.1

11.1.1

11.1.2

× ×

11.1.3

×

11.1-1

	≥ 300MW	300MW	≥ 330kV	330kV	≥ 330kV	330kV
%	15	17	20	23	17	20

11.2

11.2.1

11.7-1

11.2.2

11.7-2

11.3

11.3-1

MW							
1000			303.66	425.12	607.31	880.60	1093.16
1000			274.27	383.98	548.54	795.38	987.37
800			241.62	338.27	483.24	700.70	869.83
600			204.07	285.70	408.14	591.80	734.65
300			163.26	228.56	326.51	473.44	587.72
200			25.71	175.99	251.42	364.56	452.56
100			83.27	116.57	166.53	241.47	299.75

11.4

11.4-1

kV							
500			18.35	25.69	36.70	53.22	66.06
330			14.85	20.79	29.70	43.07	53.46
220			7.90	11.06	15.80	22.91	28.44
110			4.75	6.65	9.50	13.78	17.10
≤ 35			2.85	3.99	5.70	8.27	10.26
			0.8				

11.4-2

1				0.80	
2				1.35	
3				1.15	
4				1.10	
5				0.67	
6				0.15	
7				0.41	
8				0.24	11.2-3 300MW
9				0.42	

10		30m	1.05	
11		0.4km ²	100m	
12			1.10	
13			1.80	
14			0.30	
15			0.60	
16			0.05	

11.5

11.5-1

	kV							
1	500		km	1303	1902	2605	3777	4950
	330			1107	1615	2213	3209	4205
	220			651	950	1302	1888	2474
	110			495	723	990	1436	1881
2				4.0				

11.5-2

1	35kV	0.43	11.4-1 110kV
2		1.00	11.4-1
3	110kV 220kV	1.20	
4			
5			
6		1.15	
7			
8		1.10	
9		0.40	
10	50%	1.30	
11		1.5	
12	10km 10km		

11.6

11.6.1

11.6.2

11.7

11.7-1

	1 1/1	≤ 20m	3 3/3	≤ 80m	5 6/6	≤ 150m	7 10/10	150m	9 14/14	
	1 1/10	≤ 20%	2 5/16	≤ 40%	4 8/22	≤ 50%	6 12/28	50%	8 16/36	
	1 (1/1)	≤ 5%	2 (2/2)	≤ 25%	3 (3/3)	≤ 40%	4 4/4	>40%	5 (5/5)	
	1 5/2		3 15/5		5 25/8				9 45/14	

		(1/1)		(2/2)		(3/3)		(4/4)	;	(5/5)

1.

2.

11.7-2

		9	18	35	52	73
		12	21	34	50	67

11.7-3

	4	10	15	20	25

12

12.1

12.1.1

12.1.2

12.1.3

× ×

12.2

12.2.1

11.7-1

12.2.2

11.7-3

12.3

12.3-1

			()				
1		Km	0.22	0.33	0.51	0.77	1.11
2			0.71	1.08	1.67	2.52	3.64

2

0.5

1 2000

×

1

11.7-3

		2
		2
		1
		3
		2

15.

15.1

15.2

15.2-1

	PH		PH

15.3

15.3-1

	80	40	60
	80	60	40

15.4

15.4-1

				()	
1		$L \leq 0.2$	km	1000	
		$0.2 \leq L \leq 1.0$		1000	
		$1.0 \leq L \leq 3.0$		3560	
		$3.0 \leq L \leq 5.0$		9026	
		$5.0 \leq L \leq 10.0$		12760	
		$10.0 \leq L \leq 50.0$		20095	
		$L \leq 50.0$		68095	
2		$L \leq 1.0$		2500	
		$1.0 \leq L \leq 50.0$		2500	
		$50.0 \leq L \leq 200.0$		58360	
		$200.0 \leq L \leq 1000.0$	206860		
		$L \leq 1000.0$	926860		
3		$L \leq 1.0$	2000		
		$1.0 \leq L \leq 10.0$	2000		

		10.0 L ≤ 50.0		15770	
		L 50.0		60970	
4		L ≤ 1.0	km	3130	
		1.0 L ≤ 5.0		3130	
		5.0 L ≤ 20.0		13010	
		L 20.0		43010	
5		L ≤ 5.0		8500	
		5.0 L ≤ 20.0		8500	
		20.0 L ≤ 50.0		31000	
		50.0 L ≤ 100.0		72100	
		L 100.0		137100	

1.

2.

3m

3m

3.

1.2

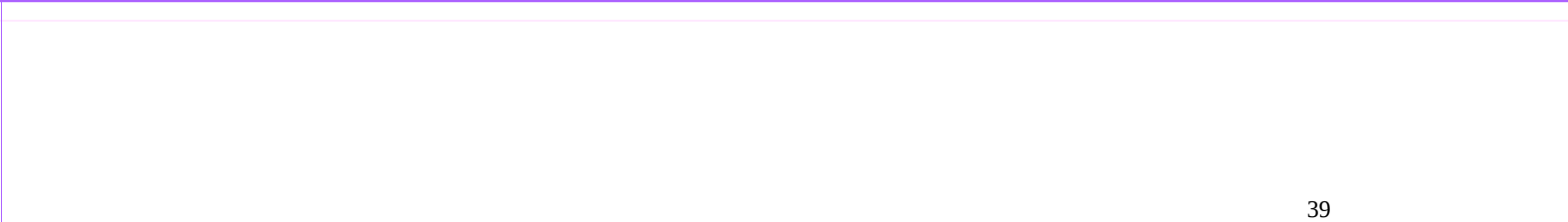
4

0.8

15.4-2

		()
		4250

6500



16.7 1

$D_s \leq 20$	$D_s = 20$
$\leq T \leq 3$	$T = 3$
$V_{\max} \leq 3 \sim 5$	$V_{\max} = 3 \sim 5$
2	2

16.7 2

()	
14000	18000
6000	7000
7000	8000

p "1 ÝNM à Ê?–# ÀÀ YΘÓ g < 1

Y3

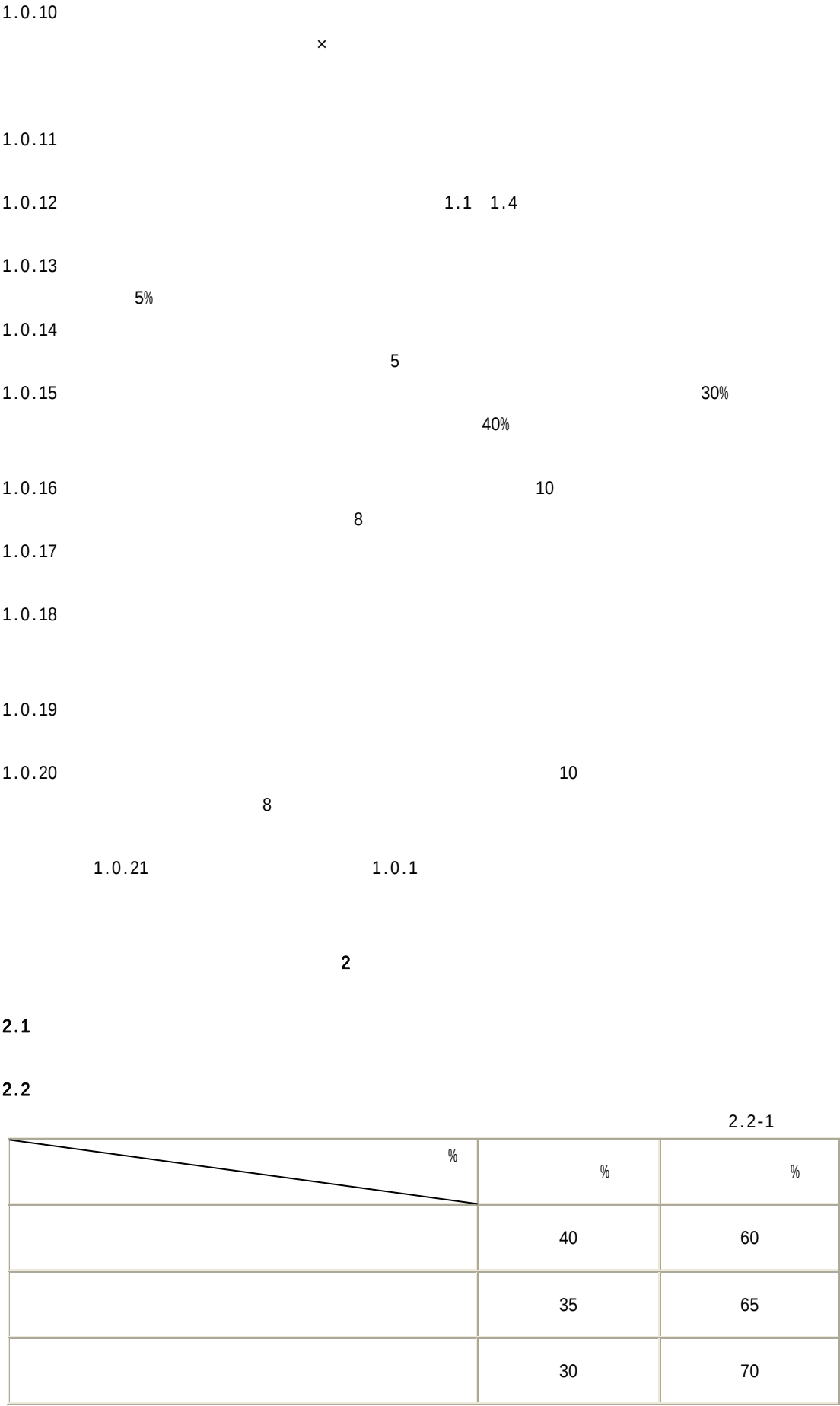
16.10

16.10 1

			()
1			1954
2			16.4-1 1
3			2128
4		.	85000
5		Km	2157

1.
2. 5
3. 500

		1			
1.0.1					
1.0.2					
1.0.3					
	1		×	$1 \pm$	
	2				
	3		×	×	×
1.0.4					
1.0.5					
1.0.6					
1.0.7					



2.3

2.3.1

2.3-1	
1.	≤ 3
2.	
3.	
1.	500m
2.	
3.	
4.	
1.	≥ 4
2.	
3.	
4.	
5.	

2.3.2

2.3-2

1.	120m
2.	
3.	
4.	
5.	
6m	
1.	$\geq 120m$
2.	
3.	
4.	
5.	
6 9m	
1.	3000m
2.	
3.	
4.	
5.	
9m	

2.3.3

2.3-3

1.	
2.	

	3.
	1. 2. 3.
	1. 2. 3. 4.

2.3.4	2.3-4
	1. 2. 3. 4.
	1. 2. 3. 4.
	1. 2. 3. 4.

2.3.5	2.3-5
	1. 2. $\leq 50m$ 3.
	1 2 2 50 100m 3
	1 2 2

3.2

3.2-1

%	%	%
	35	65
	40	60

3.3

3.3-1

1	3000t
2	
3	
4	
5	
6	
7	
8	
9	
10	
1	3000 10000t
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
1	

2	10000t
3	
4	
5	
6	1000
7	
8	
9	
10	
11	
12	≥ 2000t
13	
14	

1. 2.5%
2. 2.5%

4

4.1

4.2

4.2-1

%	%	%	%	%
	35	65	50	50
	50	50	60	40
	40	60	50	50
	60	40	65	35

- 1.
- 2.

4.3

4.3-1

1	50000m ³
5	

		45		55
		25	20	55
		45	20	35
		25	20	55
		55	10	35
		60		40
		70	10	20

5.3

5.3.1

5.3-1

1	4
2	110kV
3	≤ 20
1	2 4 50MW 50MW
2	220kV 330kV
3	20 20
1	2 4
50MW	
2	500kV
3	
4	≥ 20

1

1.1

2

5.3.2

5.3-2

1.	30%
2.	30%
3.	
4.	
5.	
1	30%
60%	
2	
30% 60%	

	:	4
	70m 25000m ³ /s	4
	,	3

6

6.1

6.2

6.2-1

%		%	%
		45	55
		40	60
		45	55
		45	55
		45	55

6.3

6.3.1

6.3-1

1	
1	
2	
1	
2.	
3	
4	

1.89

“ 1 ”

0.61

6.3.2

6.3-2

1	1000m 15m 30 50m 30 50m
2	500m
1	1000m 15m 30 50m 30 100m
2	500 1000m
3	

			1.95	2.44
			2.58	3.23
			3.26	4.07
			4.05	5.08
			0.52	0.64
			0.45	0.54

- 1.
2. 1.2
1.1 ;
3. , ,
- 0.6 1.0 ;
4. , 1.5
() 1040 ;
5. $\times 0.8$
6. $\times 0.6$ $\times 0.8$
7. 160 200km , 1.3
- 1.1
8. 0.6
9. 30km 5km 1.5
10. ,
- 1.5 ;
11. 0.92
12. 0.85
- 1.0.8 2.5%
13. 1.1
- 14.

6.4.2

6.4-2

%	0.58	0.72

1. 0.8
2. 1.0.8
3. 10km 6.4.1 “ ”
- 4.

7.1

7.2

7.2-1

%		%	%	%
		10	30	60
		15	30	55
		20	30	50

1	
2	
3	24 50m
4	20
5	
6	
7	
8	
9	10000m ²
1	
2	
3	50m
4	20 20
5	
6	
7	
8	≥ 10000m ²

1. 20001m² 5001 20000m² 5000m²
2. , 1.3 1.6
3. , 1.3
4. , 1.5
5. , 2.0
6. , 10000 20000 /ha

7.3.2

7.3-2

1	
2	
1	
2	
1	
2	
3.	

7.3.3

7.3-3

I	1 2 DN 1.0m 3 4
	1 5000 500m ³ 2 (DN 1.0m) 1 m ³ /s

8.2-1

		%	%
		40	60
		100	
		80	20
		70	30
		60	40
		50	50
		30	70

8.3

8.3-1

	1	5m	1/500																			
	2																					
	3																					
	4																					
	5	500m		20km	150000ha																	
	6	100000m																				
	1	5	50m	1/500	1/100																	
	2																					
	3																					
	4																					
	5	500	1000m		20	30km	150000															
	6	350000ha		100000	300000m³																	
	1	50m	1/100																			
	2																					
	3																					
	4																					
	5	1000m		30km	350000ha	300000m³																
	6																					

1	200	9.0
2	500	20.9
3	1,000	38.8
4	3,000	103.8
5	5,000	163.9
6	8,000	249.6
7	10,000	304.8
8	20,000	566.8
9	40,000	1,054.0
10	60,000	1,515.2
11	80,000	1,960.1
12	100,000	2,393.4
13	200,000	4,450.8
14	400,000	8,276.7
15	600,000	11,897.5
16	800,000	15,391.4
17	1,000,000	18,793.8
18	2,000,000	34,948.9
2,000,000		1.6

1	
	1.1
	1.2
	1.3
2	
	1.0
	1.1
	1.2
	1.3
3	
	1.2
	1.6
4	

	0.8
	1.0
	1.2
	1.6

	3	
	4	
	5	
	6	
	7	

1. 1.3

2. () () 0.3