

“十四五”国家重点研发计划“工业 件” 点专 2022年度 目申报指南

1

1.1

≥ 3

≥ 3

85%

≥ 100

≥ 5

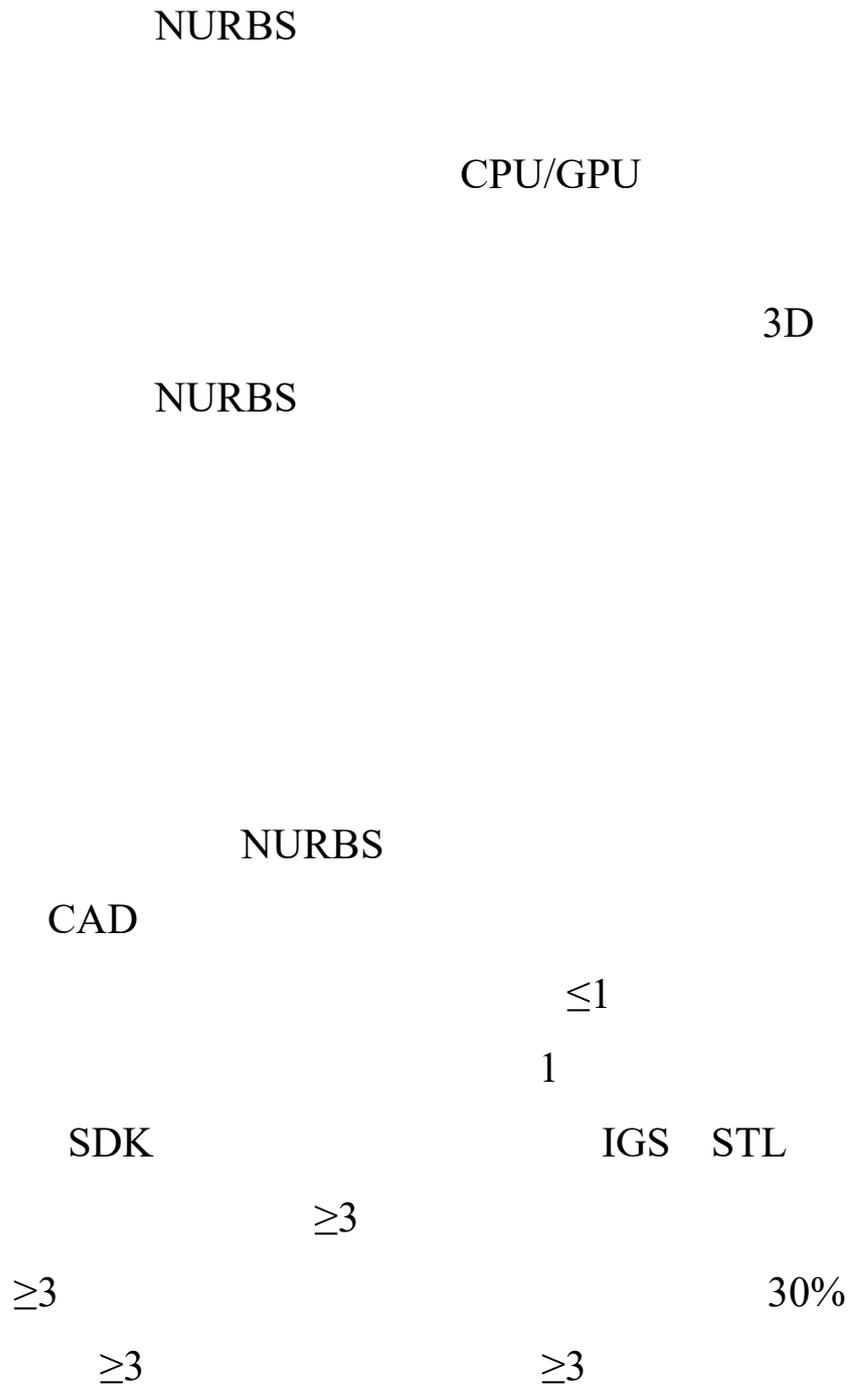
10^{100}

≤ 300

80%

1

1.2



CAD

AR/MR

1

AR/MR

≥ 4

AR/MR

CAD

90%

10%

5%

3D

AR/MR

≥ 3

≥ 2

1.5

CAD

≥ 2 ≥ 10 1
 ≥ 10 ≥ 5 ≥ 10
 ≥ 6

1.6 CAD/CAE

CAD/CAE

/
CAD/CAE

CAD/CAE

1 /

3 CAD/CAE

3

GPU CAD/CAE

≥ 3

≥ 2

1.7

≥ 6

1

15%

≥ 3

≥ 2

1.8

2

2

1

100

80%

10

90%

5

5%

20

5

/

3

1.9

5.5G

5.5G

5G

5.5G

5.5G

5.5G

5.5G

5.5G

5.5G

5.5G

| | | | | |
|------|------|-----------|----|----------|
| | | | 10 | 1 |
| | 5.5G | | | 5.5G |
| | | | 1 | 5.5G 5 |
| | / | | | 7 |
| 5ms | | 5.5G | | |
| 5.5G | | 1 | | |
| | | ≥ 10 | | ≥ 5 |
| 5.5G | | | | ≥ 2 |

1.10

≥ 5

1

95% 10
≥5 ≥10
1

1.11

CPU

1

7

ARM MIPS X64 4

≥85%

16

μs ms s

2

≥ 6

/

≥ 2

1.12

,

-

/

/ / / /

-

10%

20

1

≥ 5

≥ 5

≥ 2

10%

90%

1.13

3

/ 5

50%

3

≥ 20

≥ 5

1.14

1

≥ 3

≥ 6

20%

10%

1.15

1

≥ 3

≥ 3

≥ 2

≥ 5

≥ 5

1

1.16

1

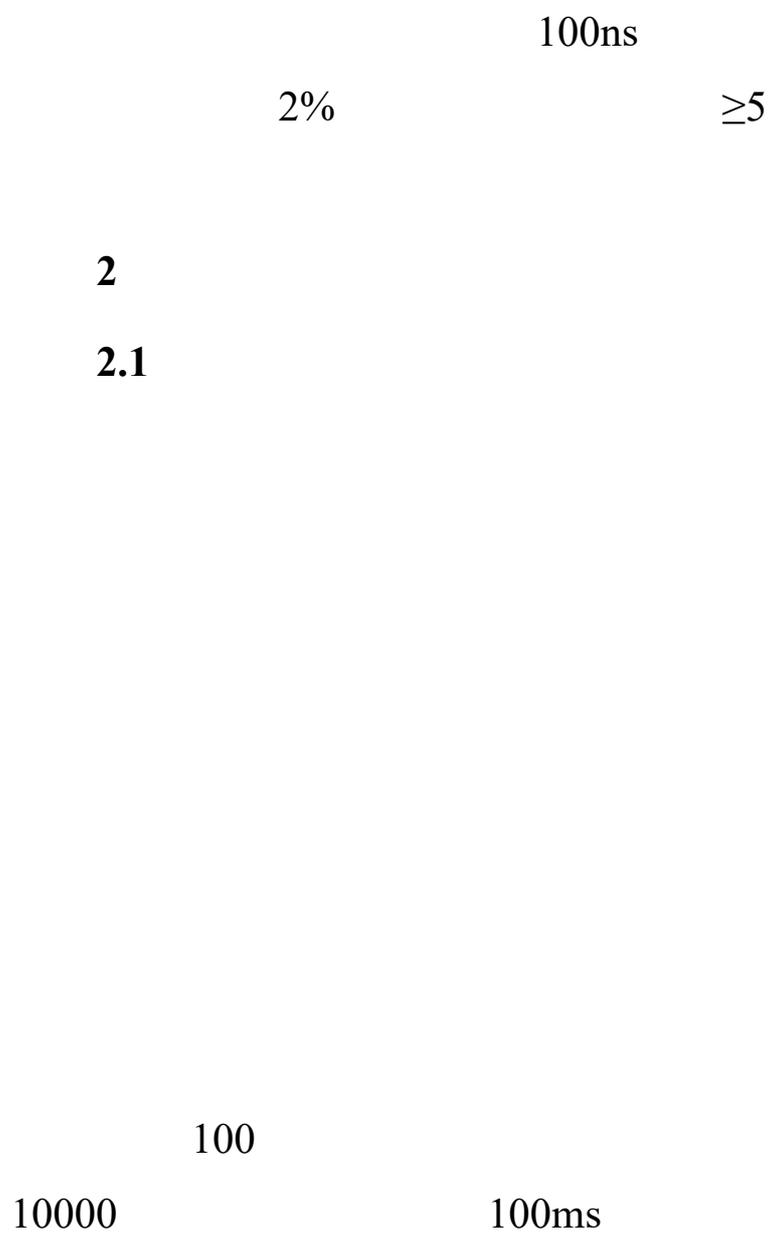
≥ 3

≥ 10

≥ 10

1.17

“ ”



≥ 3

1

2

≥ 5

≥ 5

2.2

/ / / /

2.3

-

CAE

≥ 5

≥ 30

≥ 50

-

$\leq 10\%$

$\leq 10\%$

1

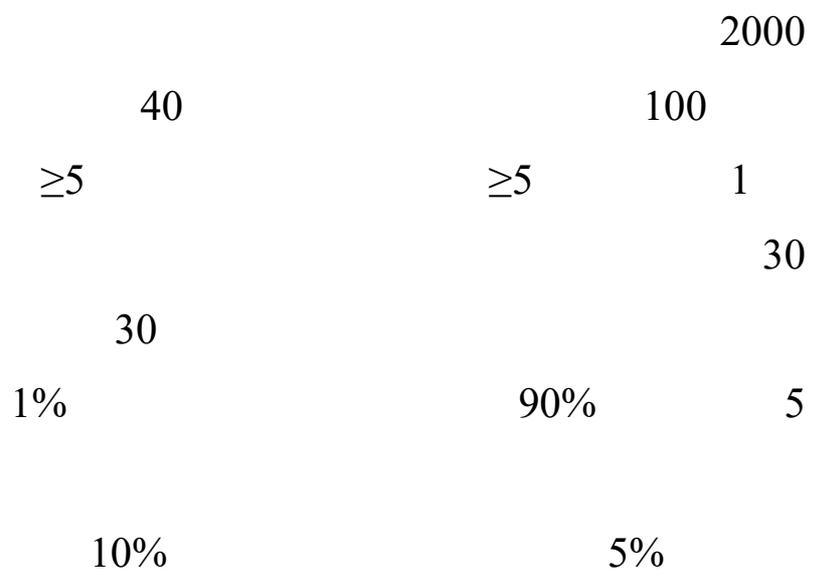
$\geq 5\%$

2

≥ 5

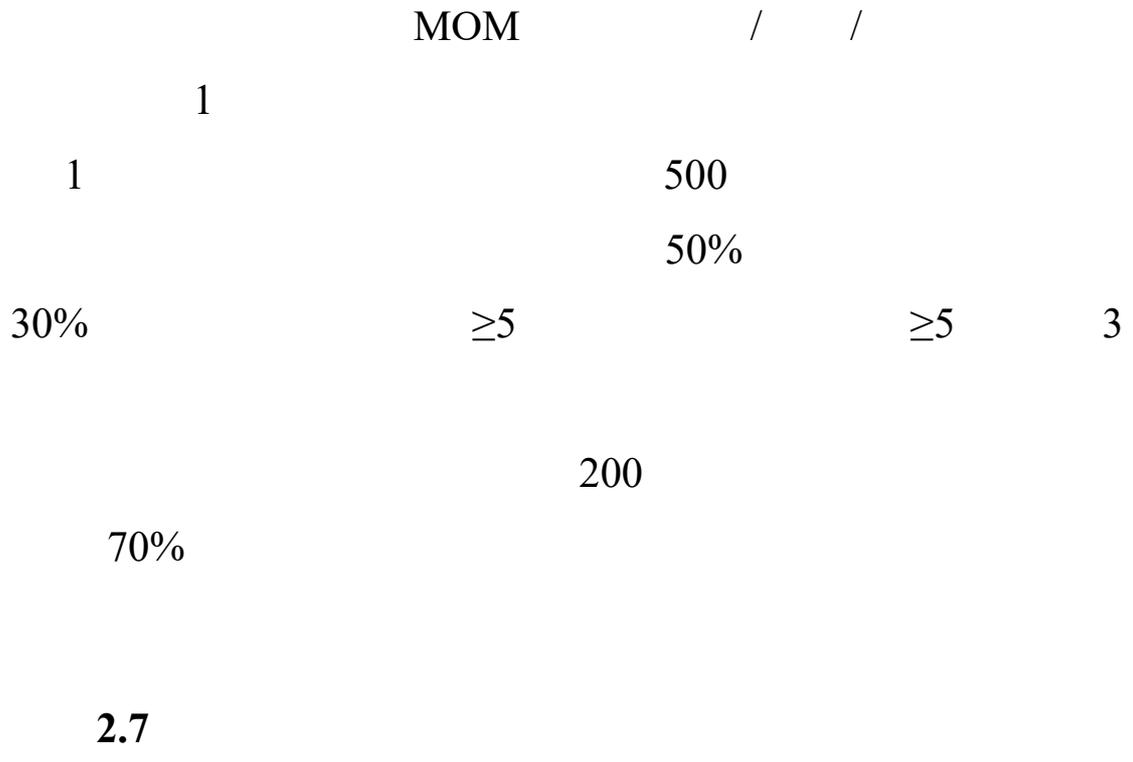
≥ 5

2.4



2.5

TMS



IEC 61508

2 LUSTRE V6 ≥ 60

≥ 100 ≥ 10

≥ 10 / ≥ 3 2

100

2.8

MPC) /

IT OT

“ - -

”

/

/

1

10

1

20

20

≥ 5

≥ 5
SQCDEM

20%

2.9

/

/

-

$\geq 10\%$

2%

-

≥ 5

≥ 10

≥ 3

≥ 20 GWh

2.10

ERP

10

≥ 5

1

1

30%

≥ 5

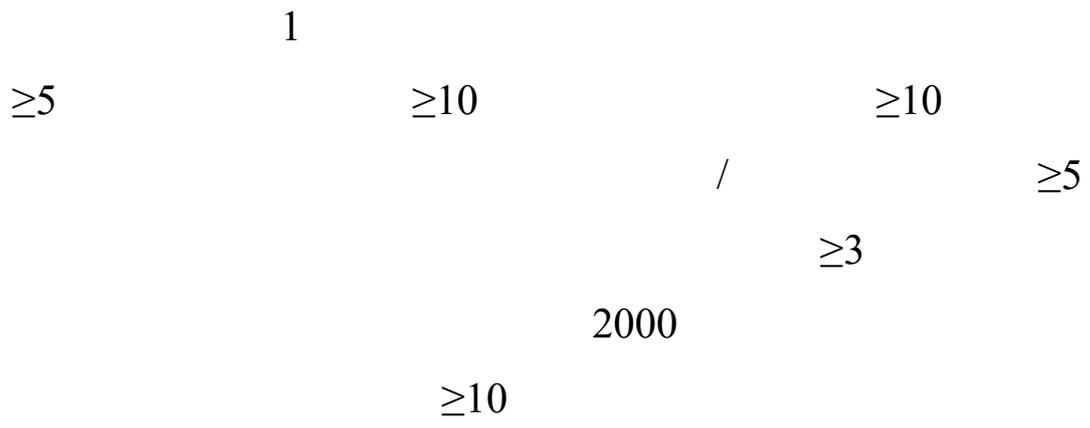
≥ 10

/

≥ 3

2.11

/ /



2.12

≥ 200
 1
 1000
 30000
 5
 10
 20
 10
 50
 500
 1
 ≥ 5
 ≥ 10
 ≥ 10

3

3.1

/

1

/

≥ 10

≥ 10

≥ 3000

15%

15%

≥ 5

≥ 10

≥ 3

3.2

/

/ /

/

/ /

/ / /

≥ 100

≥ 1000

≥ 12

20%

≥ 10

≥ 30

1 /

≥ 5