TO SPRING CREEK 4H8 & 4H9 & 6H10 OCBS

TO BYRON 8S14 & 8S15 GCBS

TO RED ROCK 8P27 & 8P28 GCBS

TO BLUE LAKE 8M28 & 8M34 GCBS

TO RED ROCK 8P25 GCB & 8P24 GCB

NO. 10 224000 ±16-15/32%

345KV BUS 2

161KV BUS 1

345KV BUS 1

AS-RC

10 TR AUX.

STA. AUX. PRT.

GROUND DETECTION

STA. AUX. EMERG. B

FROM 4.16KV BUS 14

SCC JURISDICTION
PLANT JURISDICTION

TRAINING CENTER

MET. TOWER

TO SCREEN HOUSE

2RS 1-51600

2RSY

2RSX

NO. 1 COOLING TOWER AREA 1-36000

1H1

1H2

1H3

1H4

1H5

AS-H10

AREAS INDICATED ARE FOR AUTHORIZING SWITCHING AND PROVIDING CLEARANCE FOR WORK

CT 1 BUS 13.8KV

CT 2 BUS 13.8KV

CT1 CTCH

CT1 CTS12

CT2 CTS12

CT2 CTCH

TO CTS-12TR 13.8-.480KV

TO CT 121 TR 13.8-.480KV

TO CT 122 TR 13.8-.480KV

TO CT 123 TR 13.8-.480KV

TO CT 124 TR 13.8-.480KV

CT-11 1-20000

CT-12 1-20000

CT11-1

CT11-6

CT12-7

CT12-6

CT-BT-112

CT 11 BUS 4.16KV

CT 12 BUS 4.16KV

1R AUX. 1-44800

1RX

1RY

2RY

2RX

12RXBT

2RYBT

12RYBT

1RYBT

1MY

1MX

1M STA. AUX. 1-44800

2MX

2MY

2M STA. AUX. 1-44800

NO. 2 GEN. 1-667000

NO. 1 GEN. 1-672000

NO. 2 520000-W 520000-S

NO. 1 520000-W 520000-S

NO. 4 2600

NO. 3 2600

NO. 6 6750

NO. 5 6750

NO. 2 3000

NO. 1 3000

EXCITER

22 BUS 4.16KV

21 BUS 4.16KV

12 BUS 4.16KV

11 BUS 4.16KV

23 BUS 4.16KV

24 BUS 4.16KV

26 BUS 4.16KV

27 BUS 4.16KV

25 BUS 4.16KV

16 BUS 4.16KV

15 BUS 4.16KV

14 BUS 4.16KV

13 BUS 4.16KV

41 BUS 4.16KV

42 BUS 4.16KV

32 BUS 4.16KV

31 BUS 4.16KV

PLANT

AREAS INDICATED ARE FOR AUTHORIZING SWITCHING AND PROVIDING CLEARANCE FOR WORK

AREAS INDICATED ARE FOR AUTHORIZING SWITCHING AND PROVIDING CLEARANCE FOR WORK

SCC JURISDICTION
PLANT JURISDICTION

SCC JURISDICTION
PLANT JURISDICTION

—- KEY INTERLOCKED SO THAT ONLY ONE DISCONNECT CAN BE CLOSED AT A TIME.

NOTE 1 BH6 & BH7 *1 GEN. ACB'S TRIP FOR
NO. 1 GEN. DIFFERENTIAL
NO. 1 GEN. GROUND
NO. 1 GEN. NEGATIVE PHASE SEQUENCE
NO. 1 GEN. VOLTAGE/FREQUENCY TRIP
NO. 1 GEN. LOSS OF FIELD
NO. 1 GEN. OVER EXCITATION
NO. 1 GEN. TR. SUDDEN PRESSURE
NO. 1 GEN. TR. DIFFERENTIAL
NO. 1 GEN. TR. GROUND
NO. 1 TURBINE TRIP
NO. 1 TURBINE THRUST BEARING FAILURE
NO. 1 M STA. AUX. TR. SUDDEN PRESSURE
NO. 1 M STA. AUX. TR. DIFFERENTIAL
NO. 1 M STA. AUX. TR. OVER CURRENT
NO. 1 M STA. AUX. TR. GROUND
NO. 1 REACTOR TRIP
NO. 1 GEN. UNDERFREQUENCY

NOTE 2 BH3 & BH4 *2 GEN. ACB'S TRIP FOR
NO. 2 GEN. DIFFERENTIAL
NO. 2 GEN. GROUND
NO. 2 GEN. NEGATIVE PHASE SEQUENCE
NO. 2 GEN. VOLTAGE/FREQUENCY TRIP
NO. 2 GEN. LOSS OF FIELD
NO. 2 GEN. OVER EXCITATION
NO. 2 GEN. TR. SUDDEN PRESSURE
NO. 2 GEN. TR. DIFFERENTIAL
NO. 2 GEN. TR. GROUND
NO. 2 TURBINE TRIP
NO. 2 TURBINE THRUST BEARING FAILURE
NO. 2 M STA. AUX. TR. SUDDEN PRESSURE
NO. 2 M STA. AUX. TR. DIFFERENTIAL
NO. 2 M STA. AUX. TR. OVER CURRENT
NO. 2 M STA. AUX. TR. GROUND
NO. 2 REACTOR TRIP
NO. 2 GEN. UNDERFREQUENCY

NOTE 3 H = HORIZONTAL REMOVABLE LINKS
V = VERTICAL REMOVABLE LINKS

NOTE 4 345KV MOD'S ARE RC FROM PLANT CONTROL ROOM ONLY

REVISIONS

@	DRAWN BY: JLB DATE: 8-9-07 PREPARED BY: RAH DATE: 8-9-07 REVIEWED BY: JCR DATE: 8-9-07
1	ADDED REFERENCE DWG.* NE-119871 REV. G DRAWN BY: JLB DATE: 9-4-07 PREPARED BY: WJI DATE: 9-4-07 REVIEWED BY: JCR DATE: 9-4-07
2	COMPLETED (all3) HIGHLIGHTS INCLUDING BREAKER IH5. DRAWN BY: JLB DATE: 2-21-08 PREPARED BY: WJI DATE: 2-21-08 REVIEWED BY: JCR DATE: 2-21-08

LR - LEGEND

- IN SCOPE FOR LR PER 10 CFR 54.4(a)(1) 10 CFR 54.4(a)(3)
- IN SCOPE FOR LR PER 10 CFR 54.4(a)(2)
- OUT OF SCOPE
- DENOTES SYSTEM BOUNDARY BREAK

AREA NOT OTHERWISE INDICATED IS SCC JURISDICTION FOR AUTHORIZING SWITCHING AND PROVIDING CLEARANCE FOR WORK. INTERJURISDICTIONAL SWITCHING DIRECTION PROVIDED BY SCC.

REFERENCE DWG. NE-119871 REV. G
(C/R OLD DIAGRAM *GE-1680)

D-111

SIGNIFICANT NO.	6006					2980
GROUP	1	2	3	4	5	6

LICENSE RENEWAL BOUNDARY DWG.
PRAIRIE ISLAND SUB. (PRI)
SUBSTATION OPERATING ONELINE DIAGRAM

NORTHERN STATES POWER CO. — SCALE — REV. 2

ENGINEERING DEPARTMENT MINNEAPOLIS

LR-119871