"A" CHANNEL SCHEMATIC

SEE NOTE 1

△T POWER BLOCK

RPSCIP (AW11)

LT-3

26VAC

J5-C

J5-V

J2-18

J2-19

24VDC

S1

2B

2A

K26

K21-2

6

10

(OPEN ABOVE 10⁻⁴ % POWER)

K26-2

K26-1

J2-16

J2-17

AUXILIARY LOGIC ASSY (AW10)

THERMAL PWR

40

CPC-1 (AW12)

THERMAL PWR

27

Q PWR

CPC-2 (AW15)

3. MANUALLY ACTIVATED ZPMS & LOW SG PRESS. BYPASSES INHIBIT OR PREVENT THE ASSOCIATED TU. FROM TRIPPING. THIS INHIBIT IS AUTOMATICALLY REMOVED AT 10⁻⁴ % POWER AND INCREASING SG PRESSURE RESPECTIVELY.

2. SEE DWG. E-18767-411-039 FOR OPERATION OF K-26 AND K3 COIL.

1. SCHEMATICS FOR CHANNELS "B", "C" & "D" ARE IDENTICAL TO CHANNEL "A" EXCEPT FOR LETTER PREFIX E.G. "CW10" REPLACES "AW10" FOR CHANNEL "C".

TYPICAL TRIP INHIBIT ARRANGEMENT

AUTO BYPASS REMOVAL CONTACT CONTACT OPENS & BYPASS IS REMOVED ABOVE 10 %F.P. (LO RCP SPEED,LOW FLOW & TM/LOW P.) OR ABOVE SG PRESS. BYPASS ROMOVAL SET POINT (LOW PRESS. S G)

MANUAL BYPASS SWITCH (CLOSED FOR BYPASS)

N

HH

C-E BISTABLE TRIP UNIT

SUMMED SIGNAL & SET POINT

B/S

1K

10K

+12V TRIP RELAYS ENERGIZED TRIP LIGHT OFF AUX. RELAY ENERGIZED

0V TRIP RELAYS DE-ENERGIZED TRIP LIGHT ON AUX. RELAYS DE-ENERGIZED

TU INTERCONNECT MODULE

AUX. LOGIC DRAWER

+15V AW9-J22-F AW9-TB1-53 AW10-J2-58

+15V AW9-J22-J AW9-TB1-51 AW10-J1-13

+15V AW9-J22-X AW9-TB1-19 AW10-J1-12

+15V AW9-J22-R AW9-TB1-34 AW10-J1-31 AW10-TB1-14

AW10-PB1 (AUTO BYPASS REMOVAL TEST)

AW10-PB-2- (MANUAL BYPASS REMOVAL TEST)

PB-1

AW10-K3-1

AW10-K26-2

AW10-K26-3

AW10-K22-4

AW10-K22-3

NOTE 2 AW10-K3-2

NOTE 2 AW10-K26-1 (OPEN ABOVE 10⁻⁴ % POWER)

NOTE 2 AW10-K26-4 (OPEN ABOVE 10⁻⁴ % POWER)

L4

L1

L2

L3

OFF

BYPASS

AW10-S1 ZERO POWER MODE MANUAL BYPASS SWITCH

LOW S G PRESS. MANUAL BYPASS SWITCH AW10-S2

J5-F SG-1 PRESS. AW9-TB1-39 AW10-J1-29 AW10-TB1-6 AW10-CR1 AW10-TB1-3

J5-SZ SG-2 PRESS. AW9-TB1-40 AW10-J1-28 AW10-TB1-5 AW10-CR2 AW10-TB1-2

TEST 1 NORMAL TEST 2

TEST SELECTOR SWITCH AW10-S3

AUCTIONEERED (HIGHEST) SG PRESS

AW10-TB1-12 24V RETURN

HG RELAY

AW10-BS13 TRIPS ON NEGATIVE-GOING SIGNAL (INCREASING SG PRESSURE)

COM SIG GND

J2-26 (SEE E-18767-411-323)

AW10-K22-1

AW10-K22-2

AW10-K22

J2-27

LOW S G PRESS BYPASS ANN.

AW10-TB1-1 +24VDC

AW10-TB1-15

AW10-J1-59 AW10-J1-63 AW10-J1-15 AW10-J1-50 AW10-J1-14 AW10-J1-51 AW10-J1-30 AW10-J1-52

AW9-TB1-52 AW9-TB1-55 AW9-TB1-50 AW9-TB1-42 AW9-TB1-44 AW9-TB1-47 AW9-TB1-18 AW9-TB1-23 AW9-TB1-33 AW9-TB1-28 AW9-TB1-30

TU-INTERCONNECT MODULE

AW9-J2-N LOW RCP SPEED TU-2 AW9-J2-FF

AW9-J3-N LOW FLOW TU-3 AW9-J3-FF

AW9-J7-N TM/LOW PRESSURE TU-7 AW9-J7-FF AW9-TB1-25

AW9-J5-N LOW PRESSURE S G TU-5 AW9-J5-FF AW9-TB1-31

CE BISTABLE TRIP UNITS (SEE NOTE 3)

AW10-K22 1 2 3 4

LATCH (THIS DWG.)

ANN. LOW SG PRESS. BYPASS (DWG. 25203-39069 SH.2)

SPARE

AUTO REMOVAL OF LOW SG PRESS BYPASS (THIS DWG.)

Q.A.

BECHTEL DWG. NO. 7604-M806-529-4

C.E. DWG. NO. E-18767-411-040

REDRAWN FROM SAME NNECO DWG. NO. REV. 7

CAD

NOTE: MANUAL REVISIONS TO THIS DOCUMENT WHEN AS-BUILT ARE PROHIBITED.

REVISIONS DURING CONSTRUCTION

NO.	DATE	REVISIONS	BY	CHK.	APP.	APP.
N/A	9	8-19-97 INCORP. DCN DM2-00-0342-97	DSJ	GFD	RWD	JB
N/A	8	11/19/96 INCORP. DCN DM2-S-0638-96 PER DCR M2-S-0190-96	WBZ	RTM DME	MEL	MEL

Dominion

Dominion Nuclear Connecticut, Inc.
Millstone Power Station

TITLE
MILLSTONE UNIT 2
REACTOR TRIP
(ZERO POWER MODE AND LOW PRESSURE)
BYPASS SCHEMATIC
WATERFORD, CT.

BY	WBZ	CHKD.	APP.	APP.
DATE	8-27-96	DATE	DATE	DATE
SCALE	N/A	DWG. NO.	25203-39069 SH. 19	