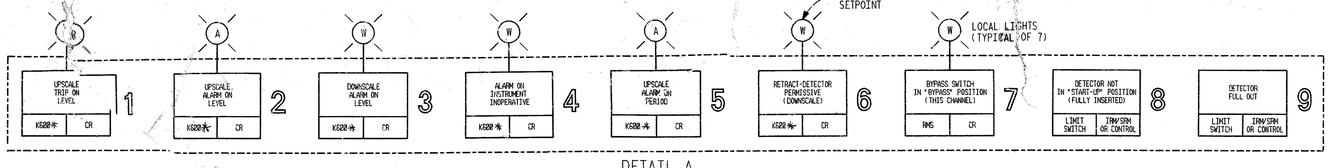
SOURCE RANGE MONITORING



DETAIL A

✱ NO. TO BE SUFFIXED BY CHANNEL LETTER ASSIGNED IN LEGEND BELOW:

ARMS-INFORMATION SYSTEMS
DTC DD DTNC DSN E3140-02
PAGE REV 8 PIS
November 1, 1985
PIS C51000 RECIPIENT
APPROVAL REQ'D: YES NO

REMOTE INDICATING LIGHTS IN CONTROL ROOM

IRM CHANNELS A, C, E & G RANGE SWITCH ON RANGE 3 OR ABOVE OR WHEN BYPASSED

ON WHEN ABOVE SETPOINT OR WHEN BYPASSED OR WHEN IRM RANGE SWITCHES ARE ON RANGE 3 OR ABOVE (TYP) OR WHEN MODE SWITCH IN "RUN" POSITION & DETECTOR NOT FULL OUT

IRM CHANNELS B, D, F & H RANGE SWITCH ON RANGE 3 OR ABOVE OR WHEN BYPASSED

NOT PERMISSIVE WHEN AUTO SIGNAL IS PRESENT

NOT PERMISSIVE WHEN REACTOR MODE SWITCH IN "RUN" POSITION (SEE REF. 4)

ANNUNCIATOR IN CONTROL ROOM

DET RETRACT WHEN NOT PERMITTED

UPSCALE ALARM ON PERIOD

DOWNSCALE ALARM ON LEVEL

UPSCALE ALARM ON LEVEL OR ALARM ON INSTRUMENT INOPERATIVE

13A 3 F7

13B 3 F2

INPUTS TO COMPUTER SEE NOTE 1

C607 C608 C641 C606

SRM UPSCALE ALARM ON LEVEL

SRM ALARM ON INSTR. INOPERATIVE

SRM BYPASSED

SRM START-UP DETECTOR RETRACTED WHEN NOT PERMITTED

12A 3 E7

12B 3 E2

(SRM UPSCALE ALARM ON LEVEL OR ALARM ON INSTRUMENT INOPERATIVE)

(SRM DET. RETRACT PERMISSIVE (DOWN SCALE) ALARM ON LEVEL & DETECTOR NOT IN START-UP POSITION OR DOWN SCALE ALARM ON LEVEL

SRM PART OF ROD WITHDRAWAL BLOCK SYSTEM

1A 1 H7

2A 1 G7

1B 1 H3

2B 1 G3

PERMISSIVE WHEN AUTO SIGNAL IS PRESENT (TYPICAL OF 12 PLACES)

SRM PART OF MANUAL SCRAM CIRCUIT (CONNECTED FOR INITIAL LOADING ONLY)

11 2 D1

(SRM UPSCALE TRIP ON LEVEL)

LEGEND

SRM BYPASS SWITCH NOT PERMISSIVE WHEN SWITCH IS IN BYPASS POSITION

✱ ✱ ONLY ONE CHANNEL OUT OF 4 MAY BE BYPASSED AT ONE TIME

NOT PERMISSIVE FOR CHANNEL THAT IS BEING BYPASSED ✱ ✱

CHANNEL "C" POSITION

CHANNEL "A" POSITION

CHANNEL "B" POSITION

CHANNEL "D" POSITION

ARBITRARILY NUMBERED TO RELATE TO FUNCTION SHOWN IN DETAIL A

SEE DETAIL A (TYPICAL FOR 4 SOURCE RANGE MONITORING CHANNELS

CHANNEL "C"

CHANNEL "A"

CHANNEL "B"

CHANNEL "D"

SOURCE RANGE MONITORING CHANNELS

ARMS-INFORMATION SYSTEMS
DTC DSN
PAGE REV PIS
PIS RECIPIENT
APPROVAL REQ'D: YES NO

NOTE: SEE 6I721-2140-1 FOR NOTES, REFERENCES AND LEGEND.

NOTE: THIS IS AN IGS PRODUCED DRAWING. ALL CHANGES OR REVISIONS TO THIS DRAWING SHALL BE COMPLETED THROUGH THE IGS SYSTEM. CONTACT THE IGS COORDINATOR TO INSURE THAT THIS FILE IS UPDATED.

NUCLEAR SAFETY RELATED
ITEMS ARE SHOWN ON THIS DRAWING
(FOR SAFETY CLASSIFICATION SEE PIPING, EQUIPMENT, VALVE OR INSTRUMENT LISTS.)

THIS DRAWING SUPERSEDES EDISON'S SITE MASTER (VENDOR DRAWING 729E681AB SHT 2 REV 4) OF
EDISON FILE NO. RI-186

	PROJ. ENG.	PROJ. DIR.
J		
I		
H		
G		
F		
E		
D		
C		
B		
A		

OFW

MADE BY	DATE	CONTROLS	ELECT.
CH'K BY	DATE	MECH.	DIV. DIRECTOR

OTHER APPROVALS	DATE
Engineering Assurance ACTING	9-9-85
Nuclear Licensing	9/6/85
REF. DWGS.	REF. DWGS.

DRAWN BY INTERACTIVE GRAPHICS	DATE
ZASADNY	10/30/85
CHECKED BY	DATE
M. Williamson for Jwm	10/30/85
PROJECT ENGINEER	DATE
G. K. Hunter for JWM	10-31-85
PROJECT DIRECTOR	DATE
D. Alexander for LCP	11/20/85
DIVISION DIRECTOR	DATE

The Detroit Edison Co. Engineering

TITLE
LOGIC DIAGRAM
NEUTRON MONITORING
SYSTEM (PART 2)
DOCUMENT CONTROL NO. C51-00

APERTURE CARD TITLE
LOGIC, DIAG, NM, SYSTEM, PART, 2,
LOCATION NAME FERMI 2 POWER PLANT
UNIT NUMBER 2
ORIGINATING SOURCE GENERATION ENGINEERING DEPARTMENT
DRAWING NUMBER 6I721-2140-2 REV

SEP 18 1985 DCS 1 552:E94,1176121402.DGN