

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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 AUTH. NAME AUTHOR AFFILIATION
 MANGAN, C. V. Niagara Mohawk Power Corp.
 RECIP. NAME RECIPIENT AFFILIATION
 ADENSAM, E. G. BWR Project Directorate 3

SUBJECT: Forwards revised Figure 8.3-8B, Sheet 13a, depicting addition of second fuse to control power circuits. Revised Figures 8.3-8B, Sheet 13b & 8.3-8B, Sheet 13e, also encl to clarify penetration protection curve, per 860828-29 meetings.

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	BWR PD3 PD		1	1		HAUGHEY, M 01		2	2
	BWR PSB		1	1		BWR RSB		1	1
INTERNAL:	ACRS	41	6	6		ADM/LFMB		1	0
	ELD/HDS3		1	0		IE FILE		1	1
	IE/DEPER/EPB	36	1	1		IE/DGAVT/GAB	21	1	1
	NRR BWR ADTS		1	0		NRR PWR-B ADTS		1	0
	NRR FILE , N L		1	1		NRR/DHFT/MTB		1	1
	<u>REG FILE</u>	04	1	1		RGN1		3	3
	RM/DDAMI/MIB		1	0					
EXTERNAL:	BNL (AMDTs ONLY)		1	1		DMB/DSS (AMDTs)		1	1
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	NSIC	05	1	1		PNL GRUEL, R		1	1

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August 29, 1986
(NMP2L 0860)

Ms. Elinor G. Adensam, Director
BWR Project Directorate No. 3
U.S. Nuclear Regulatory Commission
7920 Norfolk Avenue
Washington, DC 20555

Dear Ms. Adensam:

Re: Nine Mile Point Unit 2
Docket No. 50-410

In a letter to you on August 22, 1986 (NMP2L 0842) we provided penetration protection information for various control power circuits. Your reviewer expressed a concern regarding the use of control power transformers for back-up penetration protection on a number of circuits (Figure 8.3-8B, Sheet 13a). While we believe that our design is acceptable, we have decided to enhance the protection of these circuits by installing a second fuse in these circuits. This work will be completed before the end of the "mini-outage" conducted within 12 months of commencing power operation.

Submitted with this letter is a revised Figure 8.3-8B, Sheet 13a depicting the additional fuse described above. Also included is a revised Figure 8.3-8B, Sheet 13b and a new page 2 to Figure 8.3-8B, Sheet 13e containing a note clarifying that penetration protection curve. These revised Figures were discussed with the NRC staff during meetings held on August 28 and 29, 1986.

Very truly yours,



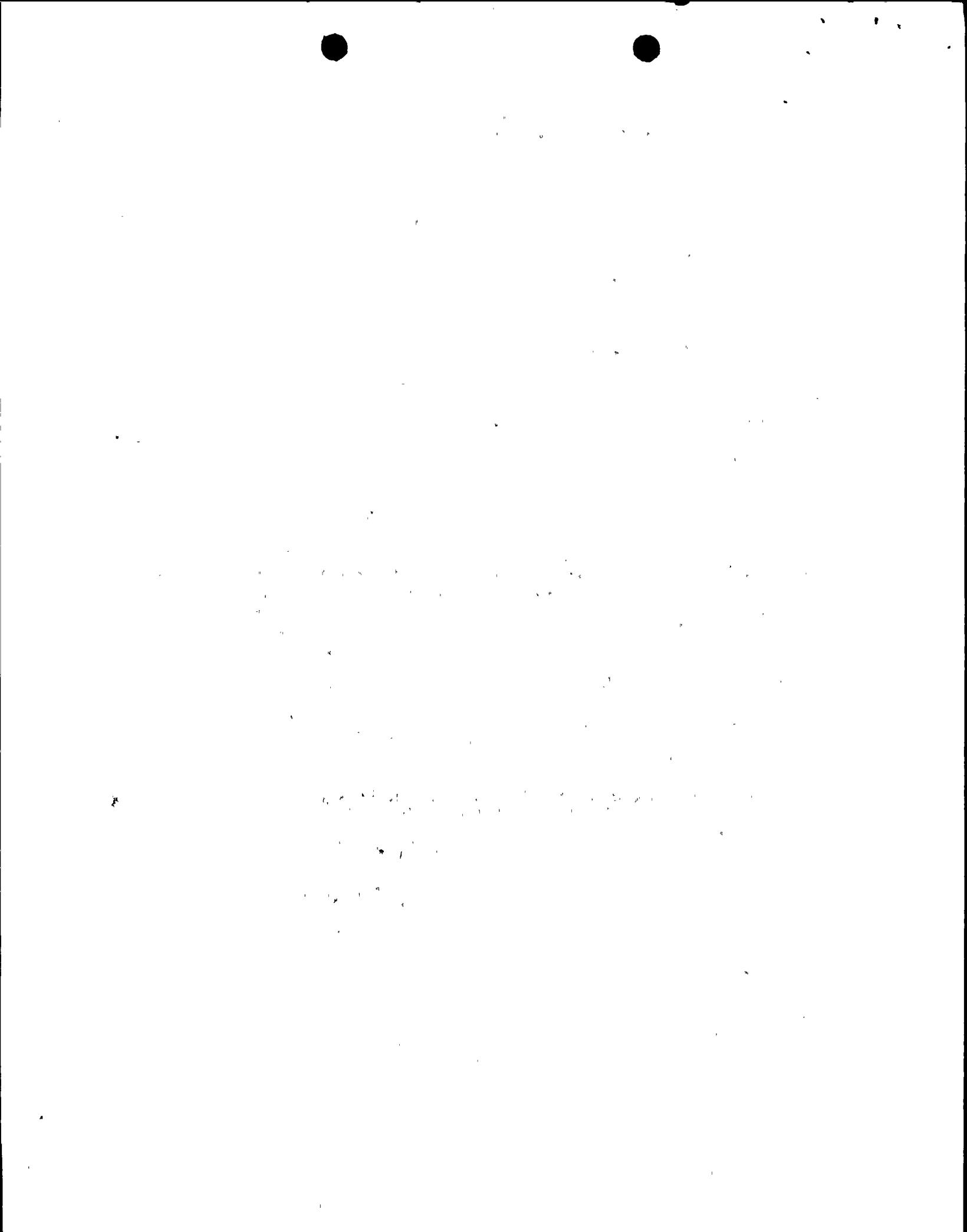
C. V. Mangan
Senior Vice President

AFZ:rla
2026G
Attachments

xc: W. A. Cook, NRC Resident Inspector
Project File (2)

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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the Matter of)
Niagara Mohawk Power Corporation)
(Nine Mile Point Unit 2))

Docket No. 50-410

AFFIDAVIT

C. V. Mangan, being duly sworn, states that he is Senior Vice President of Niagara Mohawk Power Corporation; that he is authorized on the part of said Corporation to sign and file with the Nuclear Regulatory Commission the documents attached hereto; and that all such documents are true and correct to the best of his knowledge, information and belief.

C. Mangan

Subscribed and sworn to before me, a Notary Public in and for the State of New York and County of Onondaga, this 29th day of August, 1986.

Christine Austin
Notary Public in and for
Onondaga County, New York

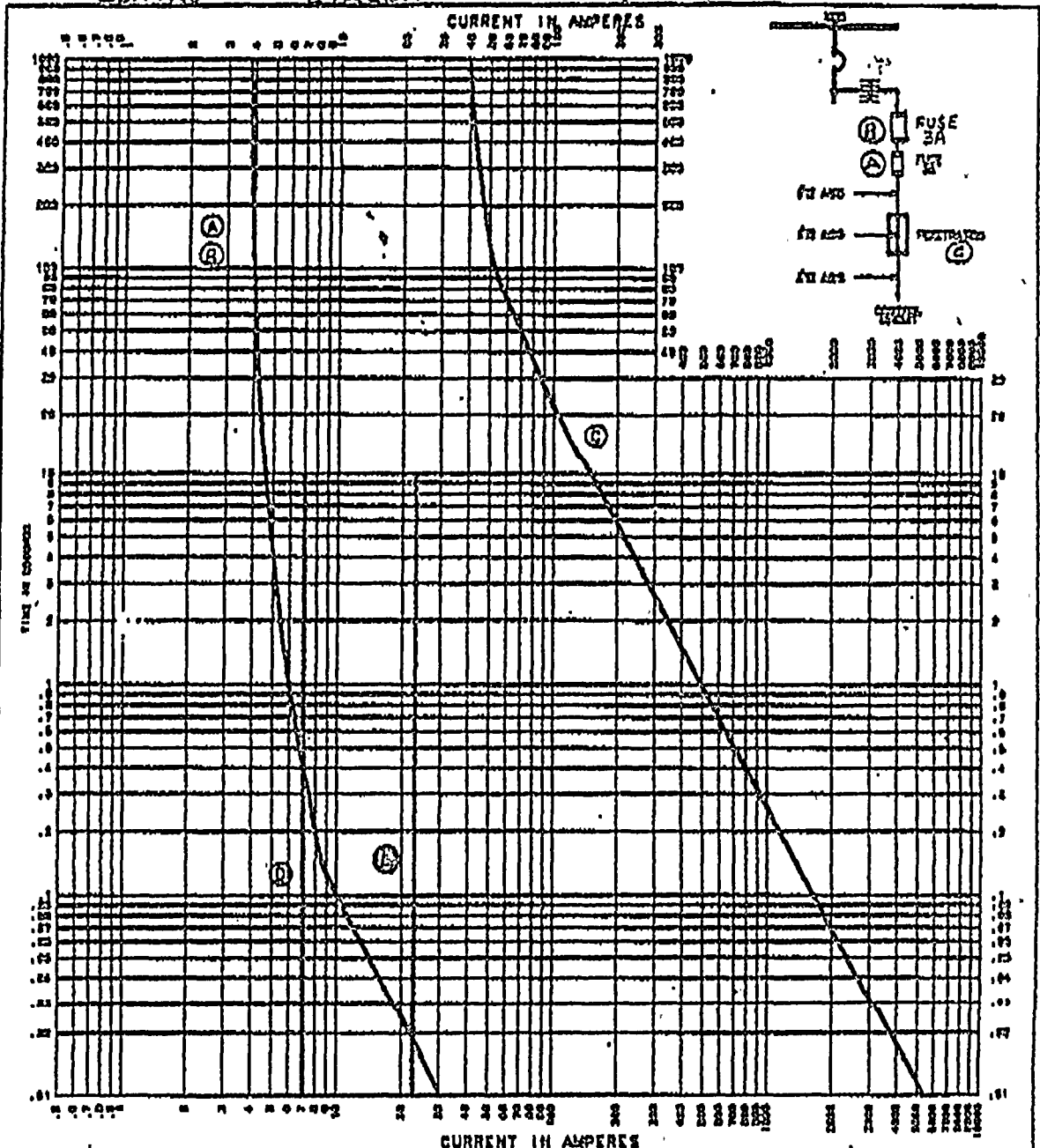
My Commission expires:

CHRISTINE AUSTIN
Notary Public in the State of New York
Qualified in Onondaga Co. No. 4787687
My Commission Expires March 30, 1987

CHRISTINE AUSTIN
Notary Public in the State of New York
Qualified in Onondaga Co. NY 4181681
My Commission Expires March 30, 19

(C)

CONTROL CIRCUIT SCHEME I



- (A) PRIMARY PROTECTION DEVICE
- (B) SECONDARY PROTECTION DEVICE
- (C) PENETRATION CAPABILITY CURVE (1 VR T1)
- (D) PENETRATION CONTINUOUS CURRENT
- (E) MAX. AVAILABLE SHORT CIRCUIT CURRENT AT PENETRATION

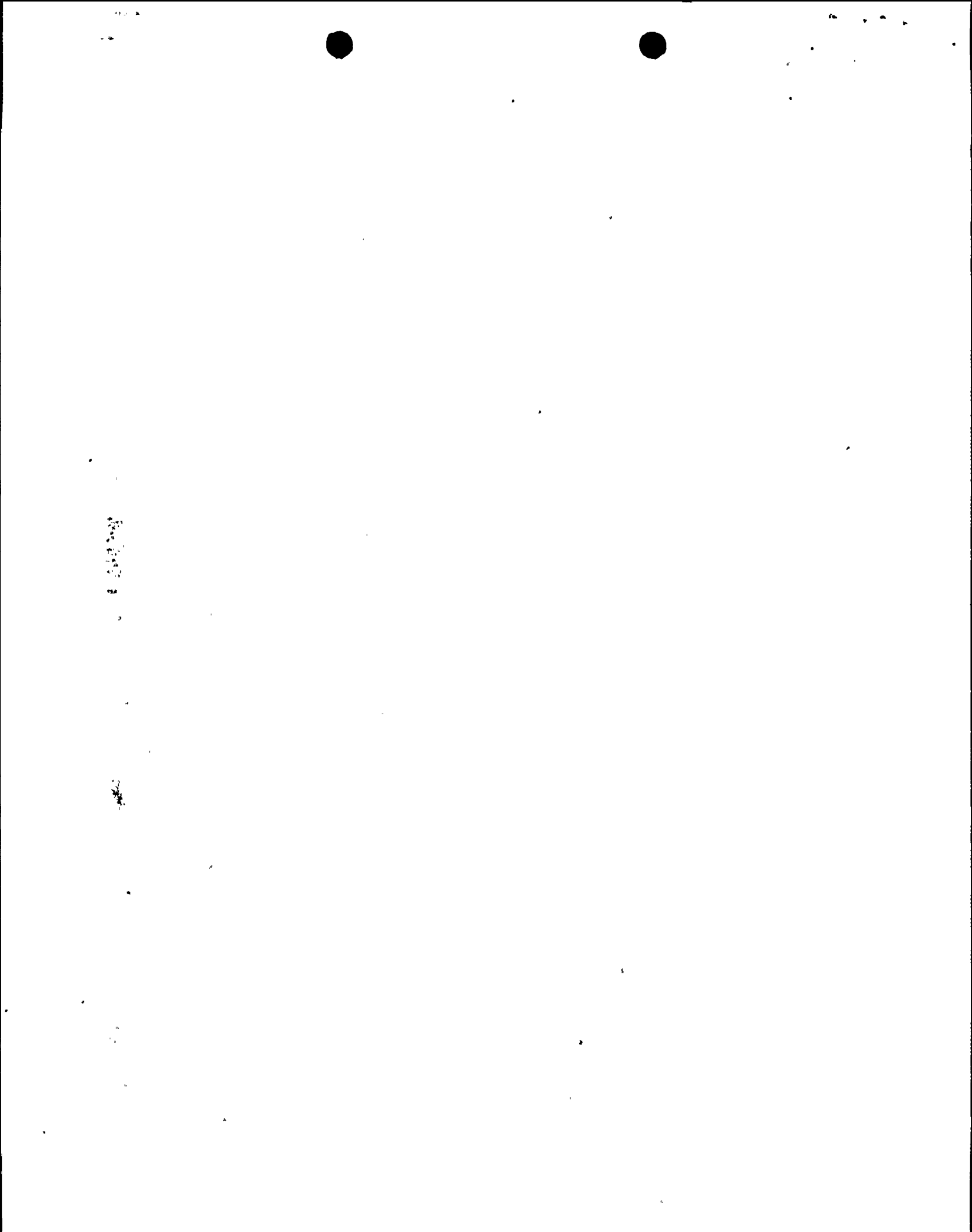
Sh 13a of 13

FIGURE 1.5-25

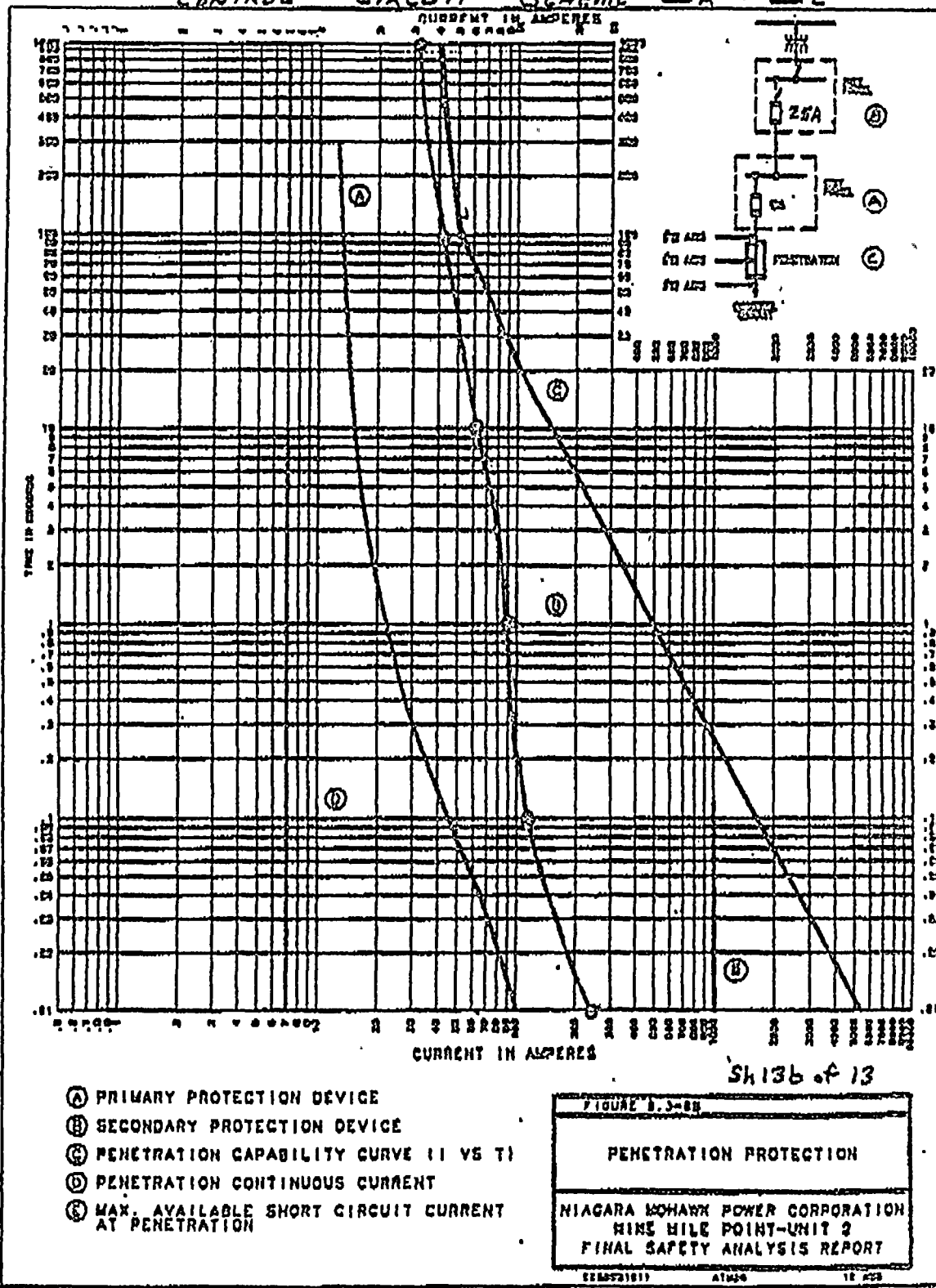
PENETRATION PROTECTION

NIAGARA MOHAWK POWER CORPORATION
 NIKE HILE POINT-UNIT 2
 FINAL SAFETY ANALYSIS REPORT

CREATED BY: AT&T 12/85



CONTROL CIRCUIT SCHEME IA & IIC

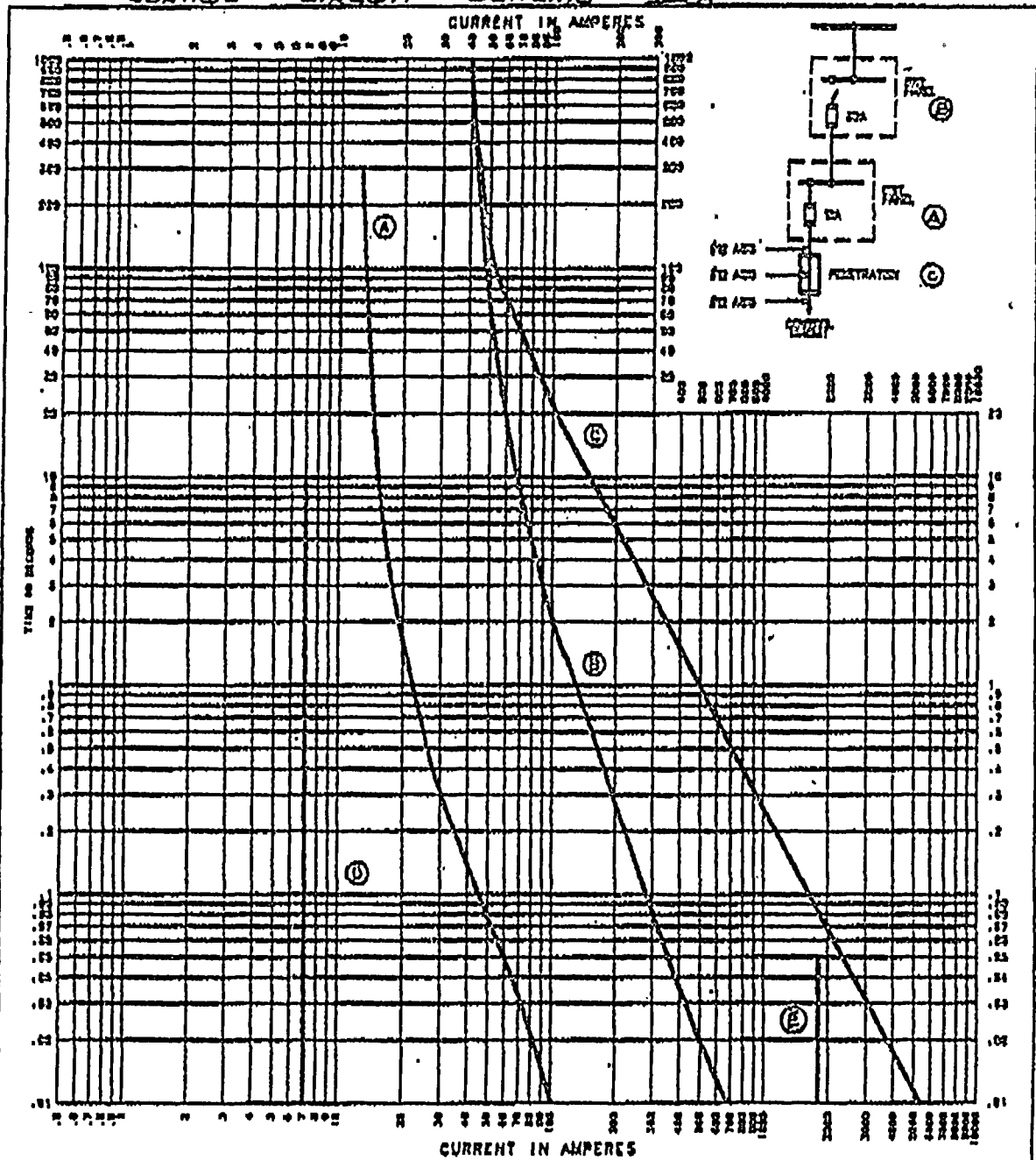


SK136 of 13

- (A) PRIMARY PROTECTION DEVICE
- (B) SECONDARY PROTECTION DEVICE
- (C) PENETRATION CAPABILITY CURVE (I VS T)
- (D) PENETRATION CONTINUOUS CURRENT
- (E) MAX. AVAILABLE SHORT CIRCUIT CURRENT AT PENETRATION

FIGURE B.3-88
 PENETRATION PROTECTION
 NIAGARA MOHAWK POWER CORPORATION
 NINE MILE POINT-UNIT 2
 FINAL SAFETY ANALYSIS REPORT

CONTROL CIRCUIT SCHEME IIIA

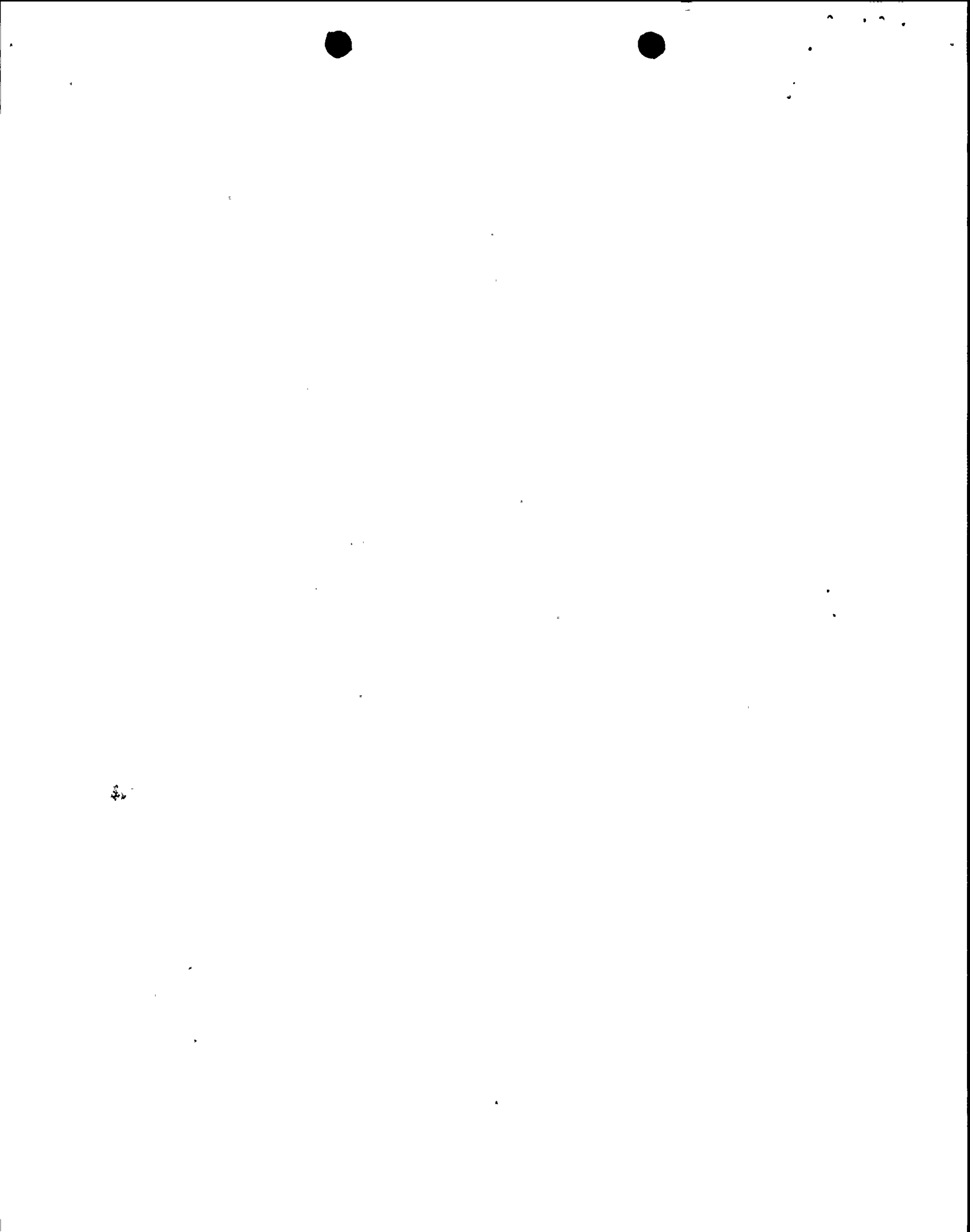


- (A) PRIMARY PROTECTION DEVICE
- (B) SECONDARY PROTECTION DEVICE
- (C) PENETRATION CAPABILITY CURVE (I VS T)
- (D) PENETRATION CONTINUOUS CURRENT
- (E) MAX. AVAILABLE SHORT CIRCUIT CURRENT AT DIST. PANEL

SEE NOTE ON SH.13 e. p 2 of 2

SH 13a of 13 P1 of 2

FIGURE 8.3-88
PENETRATION PROTECTION
NIAGARA MOHAWK POWER CORPORATION NINE MILE POINT-UNIT 3 FINAL SAFETY ANALYSIS REPORT



NOTE: The typical scheme IIIA on Figure 8.3-8B, Sheet 13e of 13 is for dc control circuits utilizing a contact signal from inside containment. Since the dc distribution system is ungrounded under a single line to ground fault, the system continues to operate as designed. Upon a line to line fault or a short, the circuit acts as though the contact was closed and draws the same current as it would under normal circumstances (less than 7 amps). Although a backup protection is provided for these circuits, it is not considered necessary to protect the integrity of penetrations. Therefore, the overlap between the penetration curve and the 30 amp fuse would not compromise the integrity of the penetration. The protection as provided conforms to the requirements of Regulatory Guide 1.63.

