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MANGAN,C.V. Niagara Mohawk Power Corp.
RECIP.NAME RECIPIENT AFFILIATION
SCHWENCER,A. Licensing Branch 2

SUBJECT: Updated results of geologic monitoring through Jul 1984. SER Open Item 16 info included.

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NIAGARA MOHAWK

NIAGARA MOHAWK POWER CORPORATION/300 ERIE BOULEVARD WEST, SYRACUSE, N.Y. 13202/TELEPHONE (315) 474-1511

October 18, 1984
(NMP2L 0206)

Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Dear Mr. Schwencer:

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

Attached is the updated results of the geologic monitoring through July 1984 at Nine Mile Point Unit 2. This submittal includes information for Safety Evaluation Report open item 16.

Very truly yours,

C. V. Mangan
Vice President
Nuclear Engineering & Licensing

DS:ja
Attachment
xc: Project File (2)
R. Gramm, NRC Resident Inspector



B001
1/1

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

| | | |
|---|---|---|
| In the Matter of | ) | |
| Niagara Mohawk Power Corporation | ) | Docket No. 50-410 |
| (Nine Mile Point Unit 2) | ) | |

AFFIDAVIT

C. V. Mangan, being duly sworn, states that he is 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 V Mangan

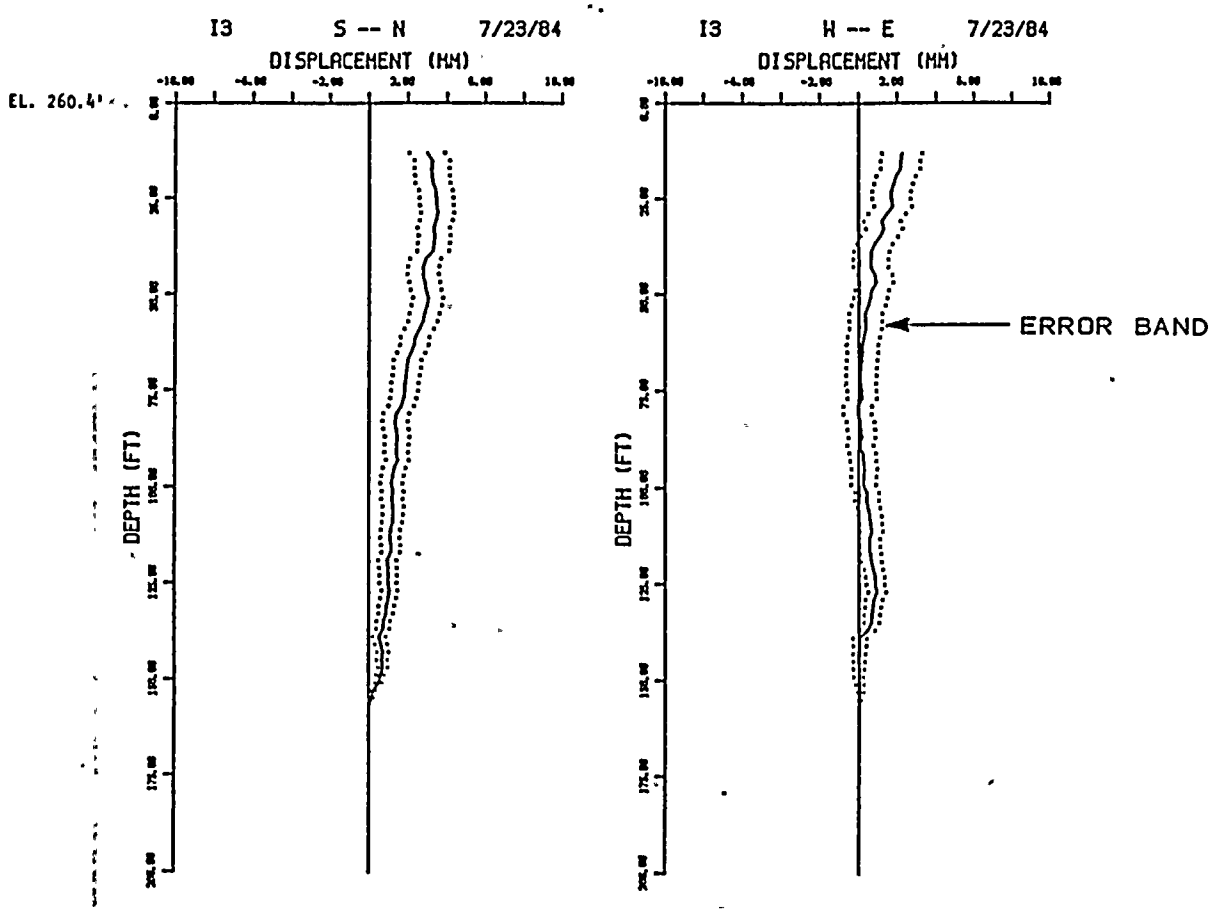
Subscribed and sworn to before me, a Notary Public in and for the State of New York and County of Onondaga, this 18th day of October 1984.

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, 1985

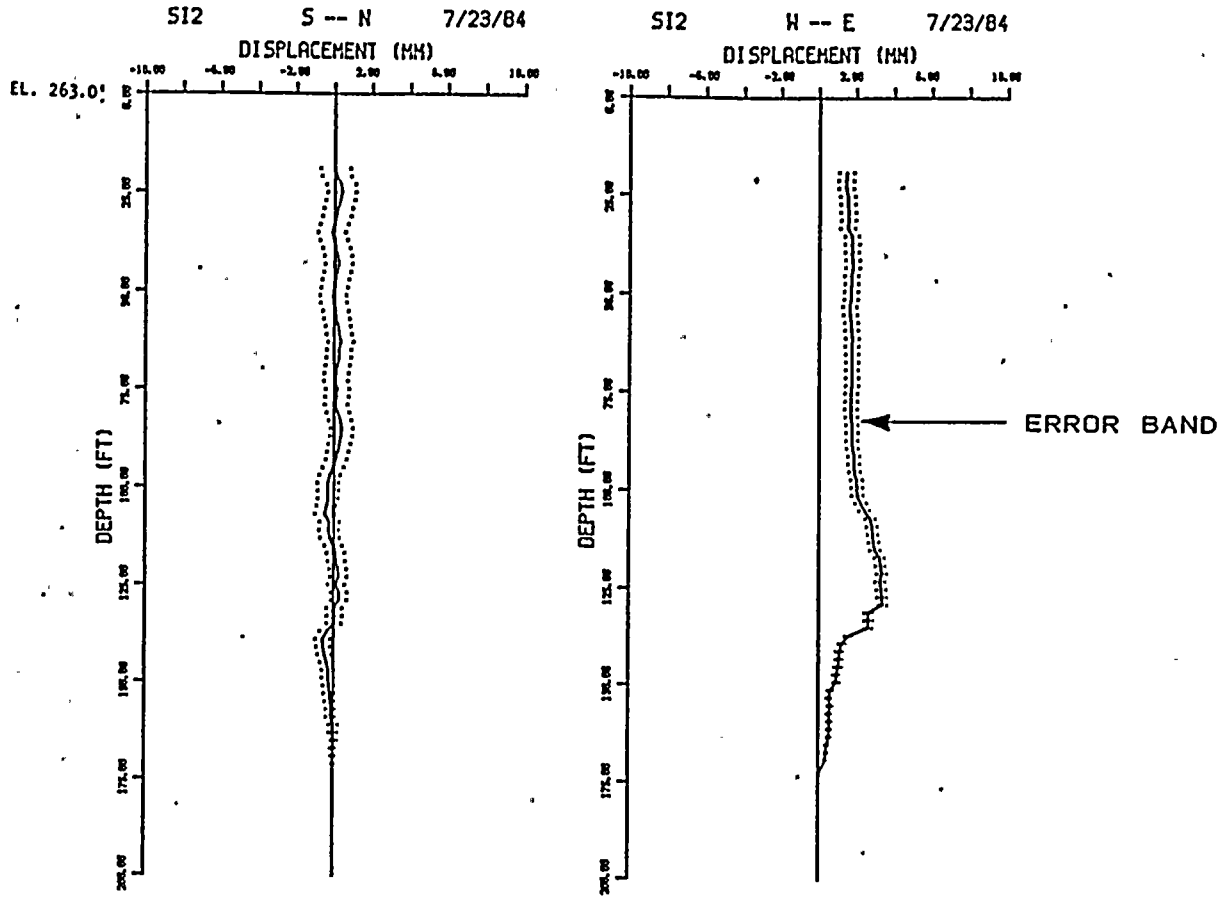
CHRISTINE AUSTIN
Notary Public in the State of New York
Qualified in [illegible] No. 4787607
My Commission Expires March 30, 19__




INCLINOMETER I-3
DISPLACEMENT VS. DEPTH PLOTS

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

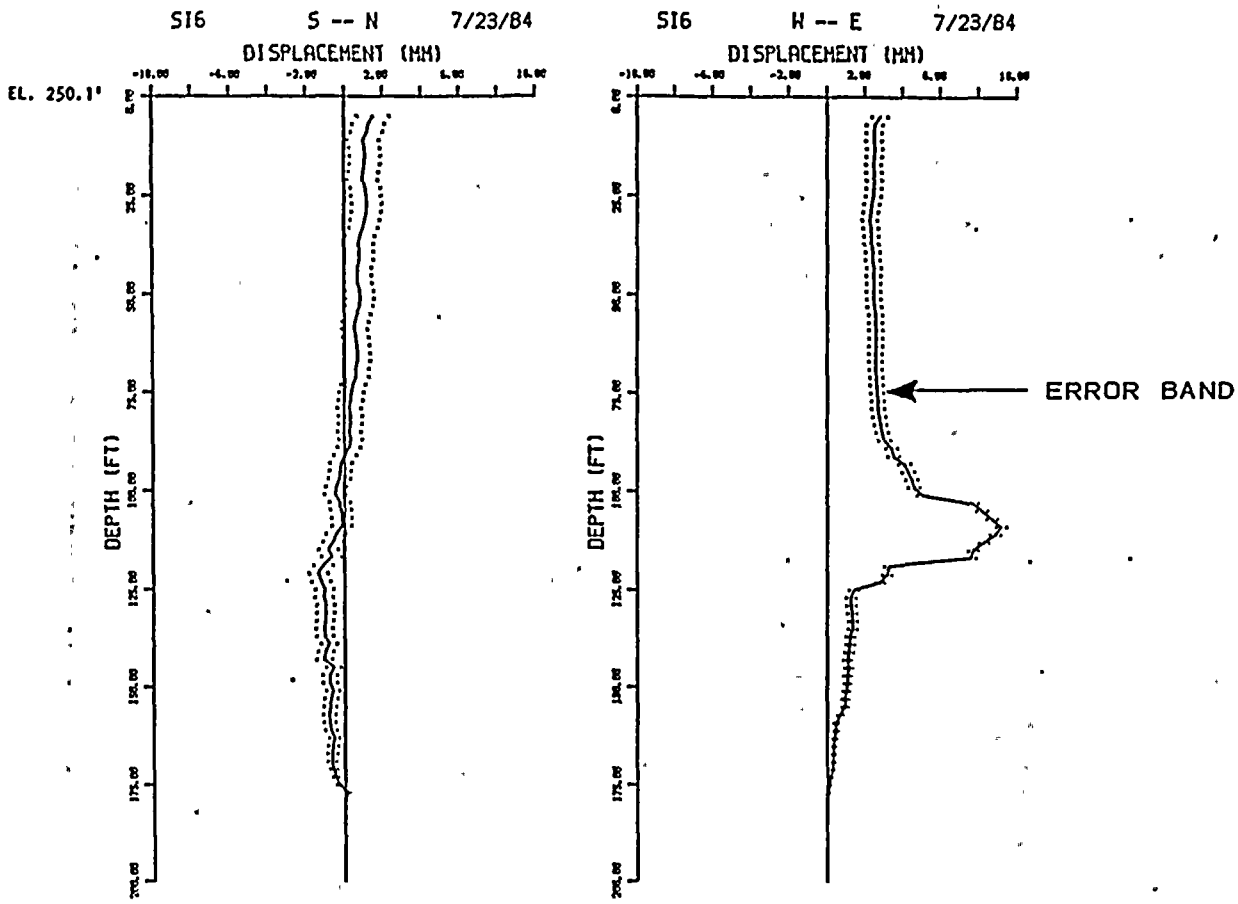
FIGURE 1




INCLINOMETER SI-2
DISPLACEMENT VS. DEPTH PLOTS

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

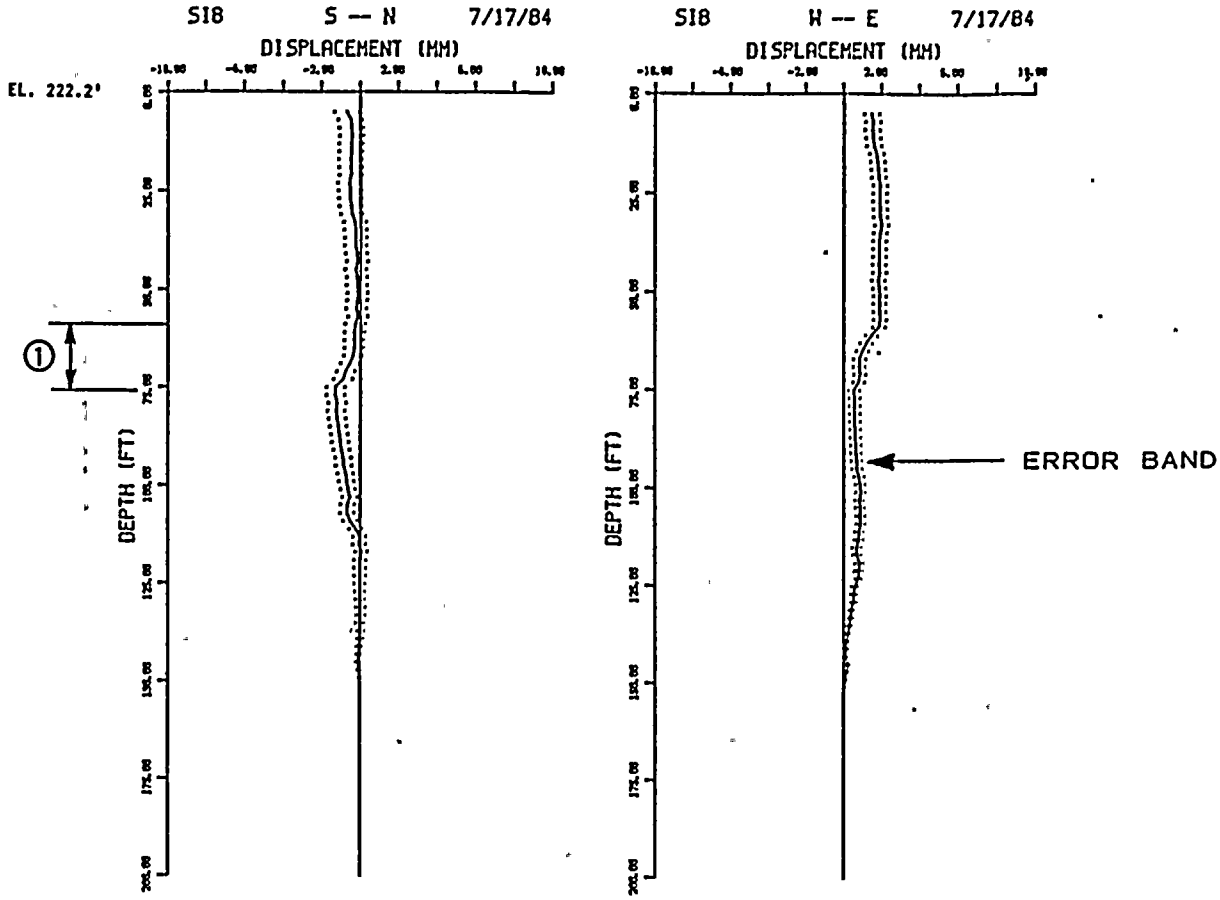
FIGURE 2




INCLINOMETER SI-6
DISPLACEMENT VS. DEPTH PLOTS

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 3



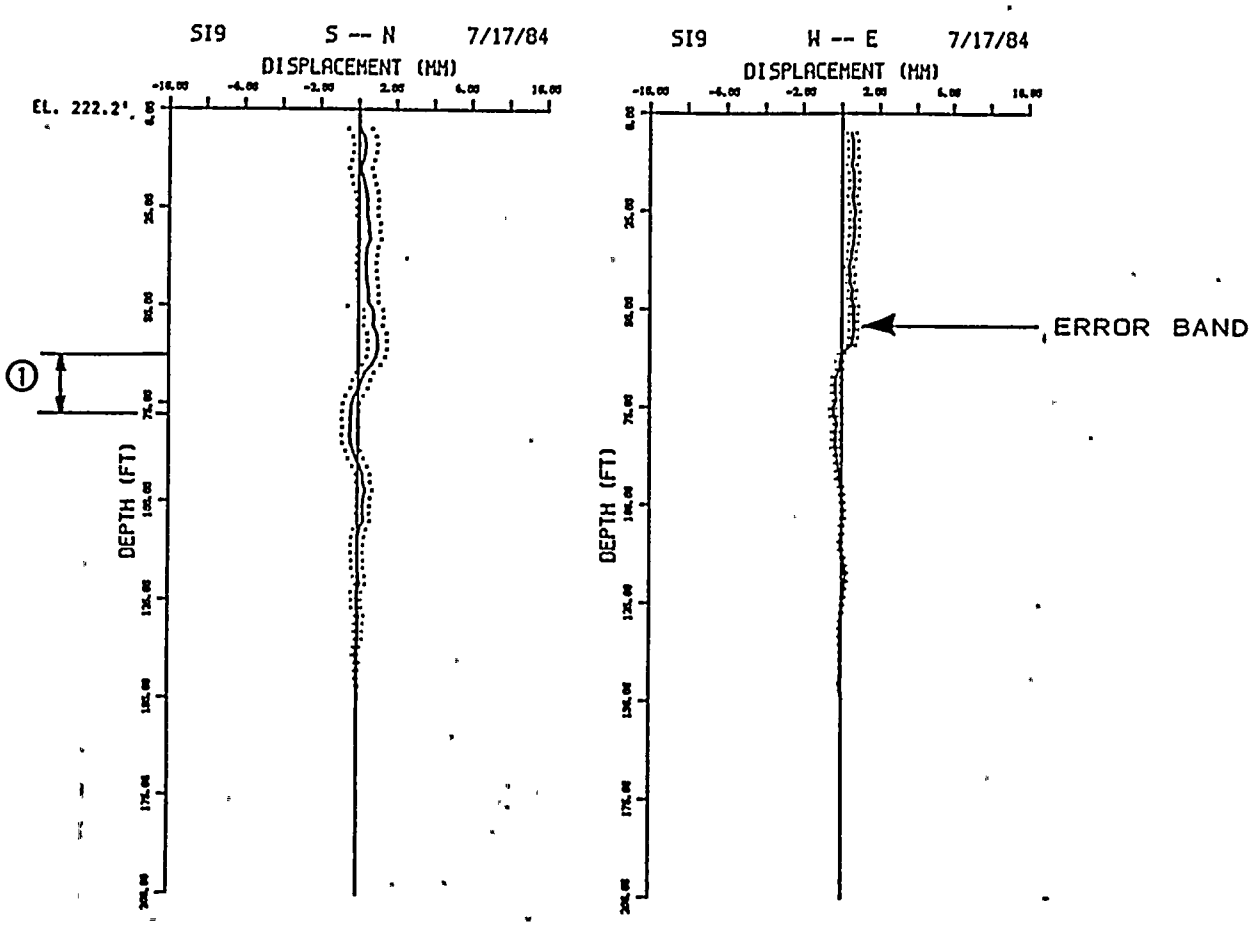

NOTE:

① See Figure 24 for Time-Displacement Plot of this zone.

INCLINOMETER SI-8
DISPLACEMENT VS. DEPTH PLOTS

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 4



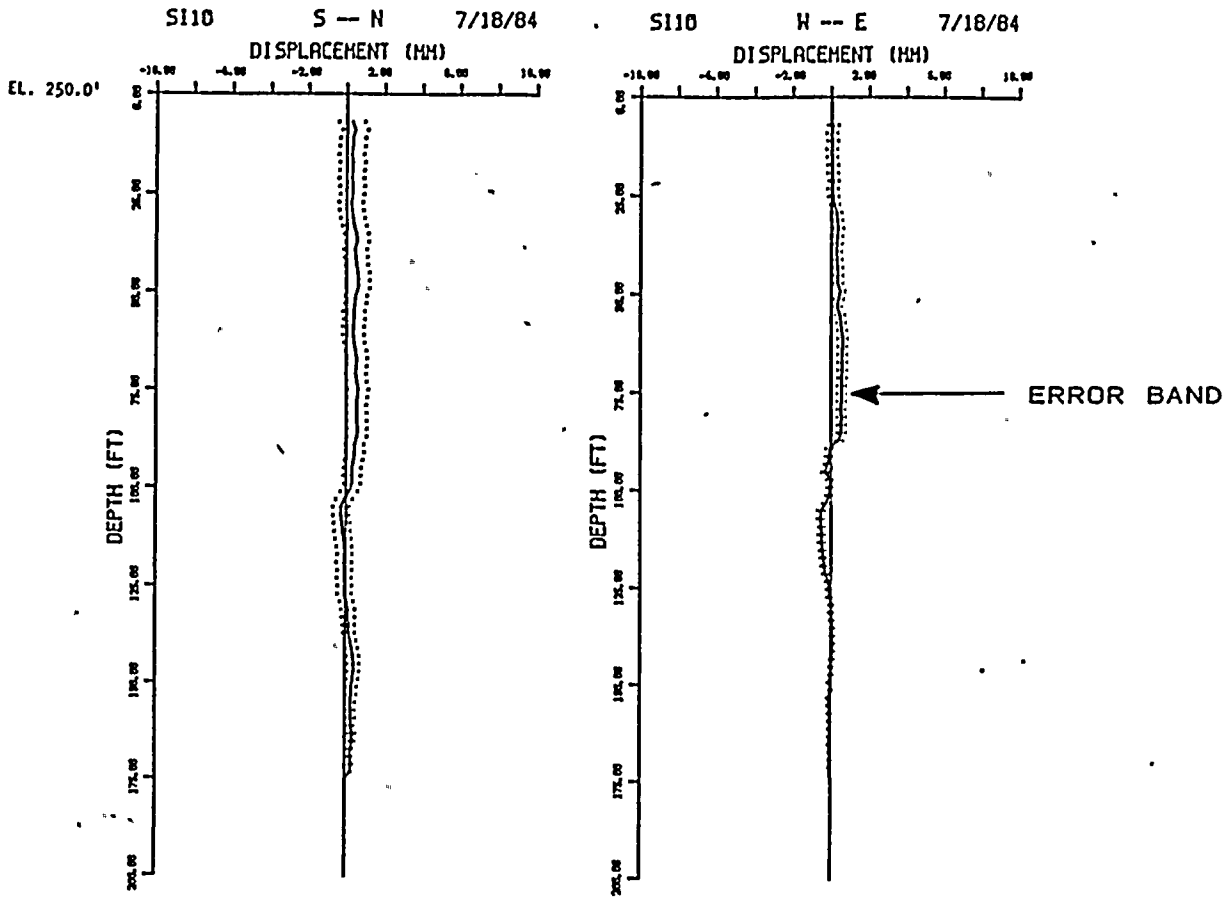

NOTE:

① See Figure 25 for Time-Displacement Plot of this zone.

INCLINOMETER SI-9
DISPLACEMENT VS. DEPTH PLOTS

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

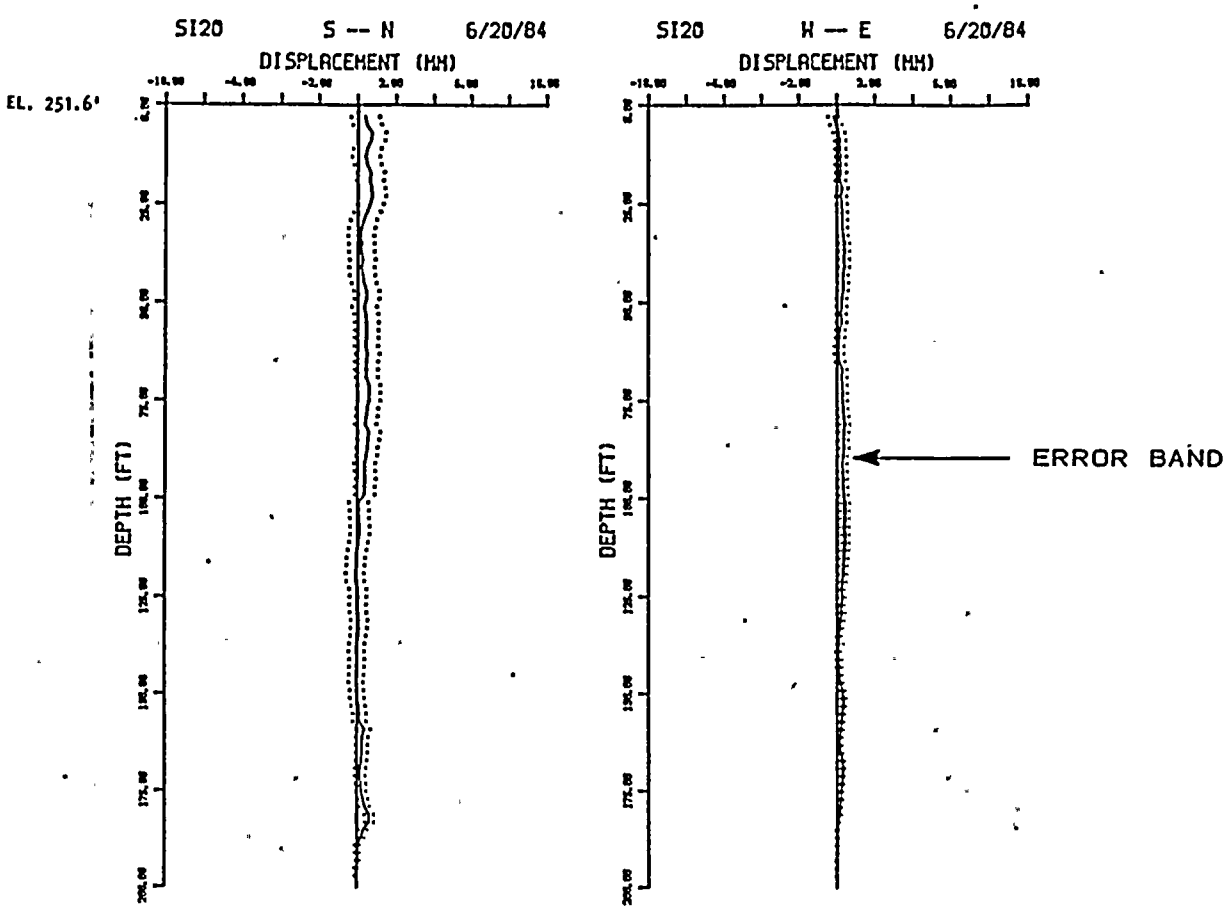
FIGURE 5




INCLINOMETER SI-10
DISPLACEMENT VS. DEPTH PLOTS

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

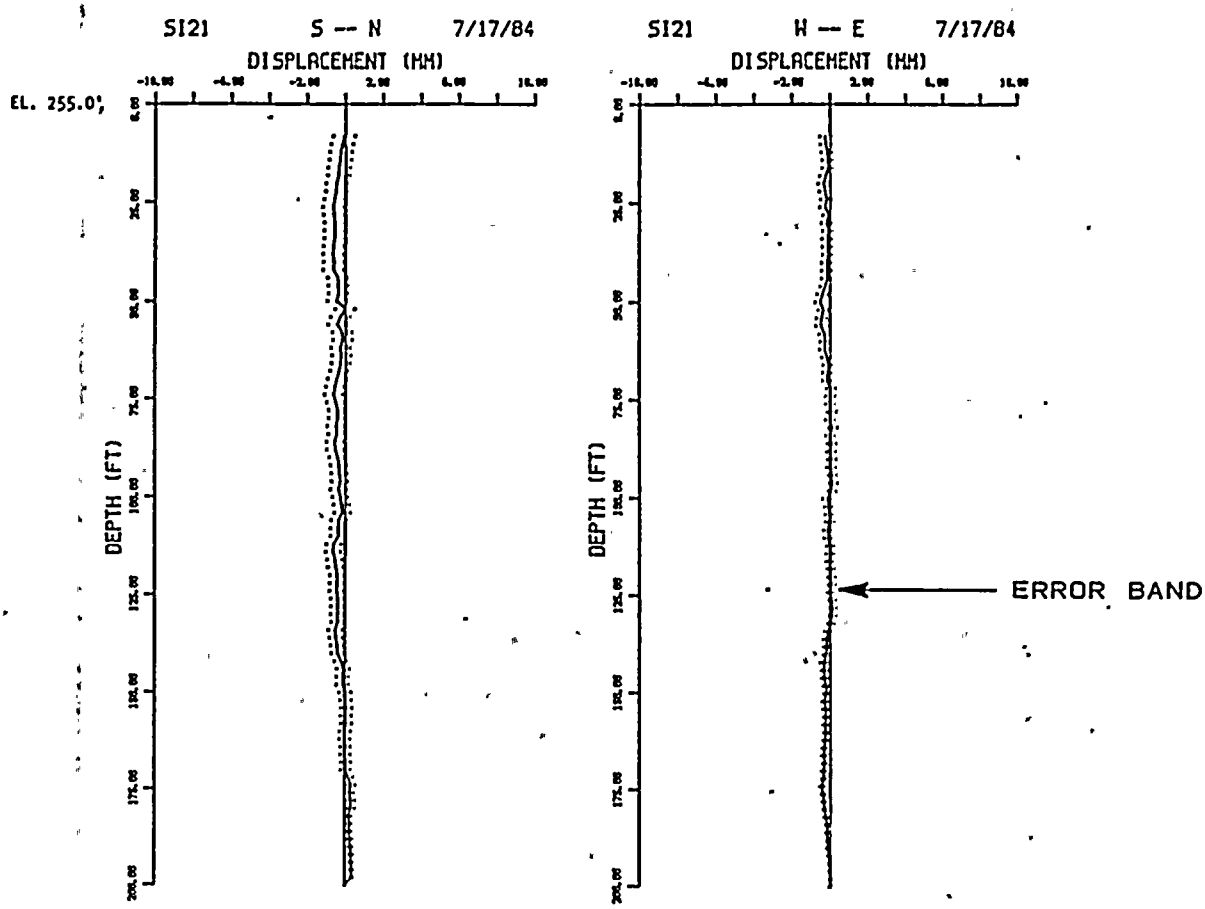
FIGURE 6




INCLINOMETER SI-20
DISPLACEMENT VS. DEPTH PLOTS

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

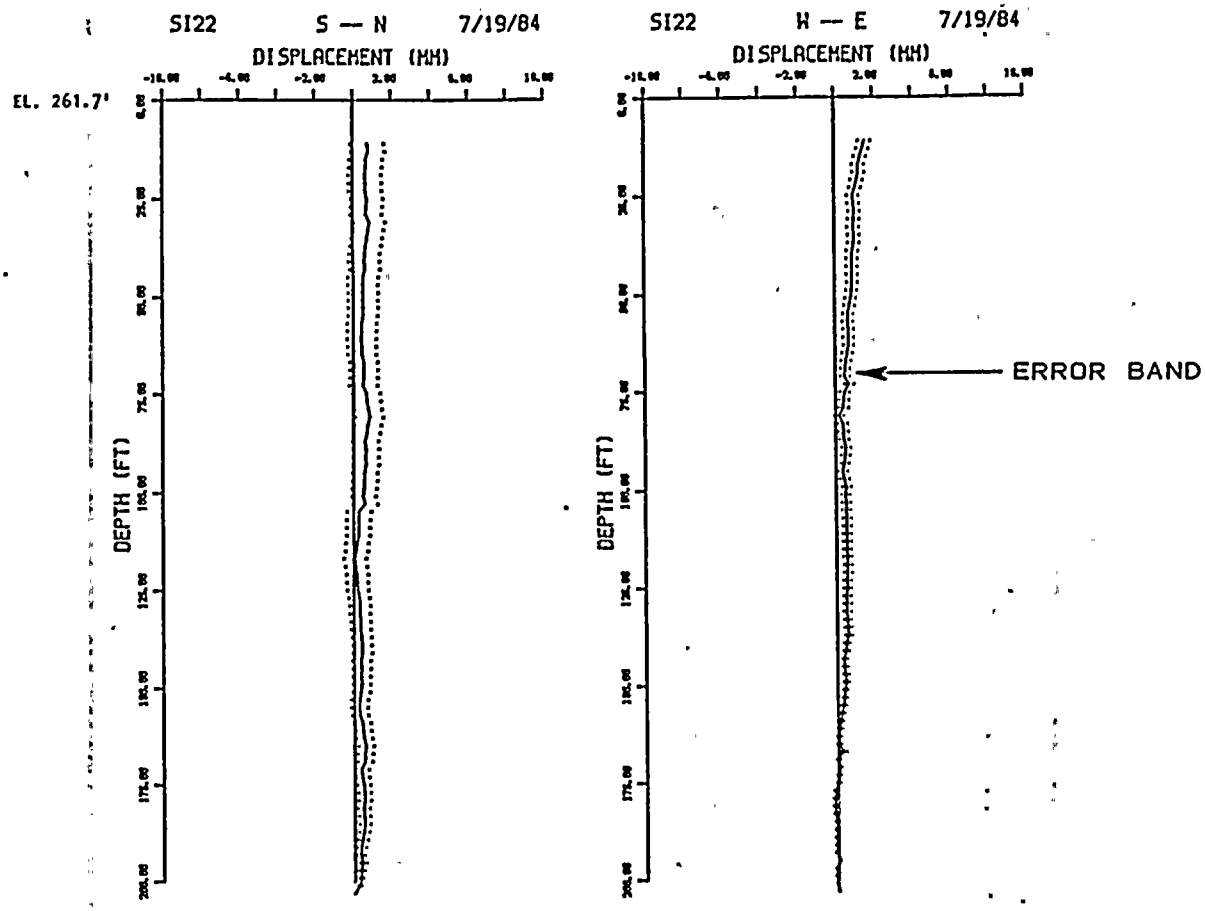
FIGURE 7




INCLINOMETER SI-21
DISPLACEMENT VS. DEPTH PLOTS

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

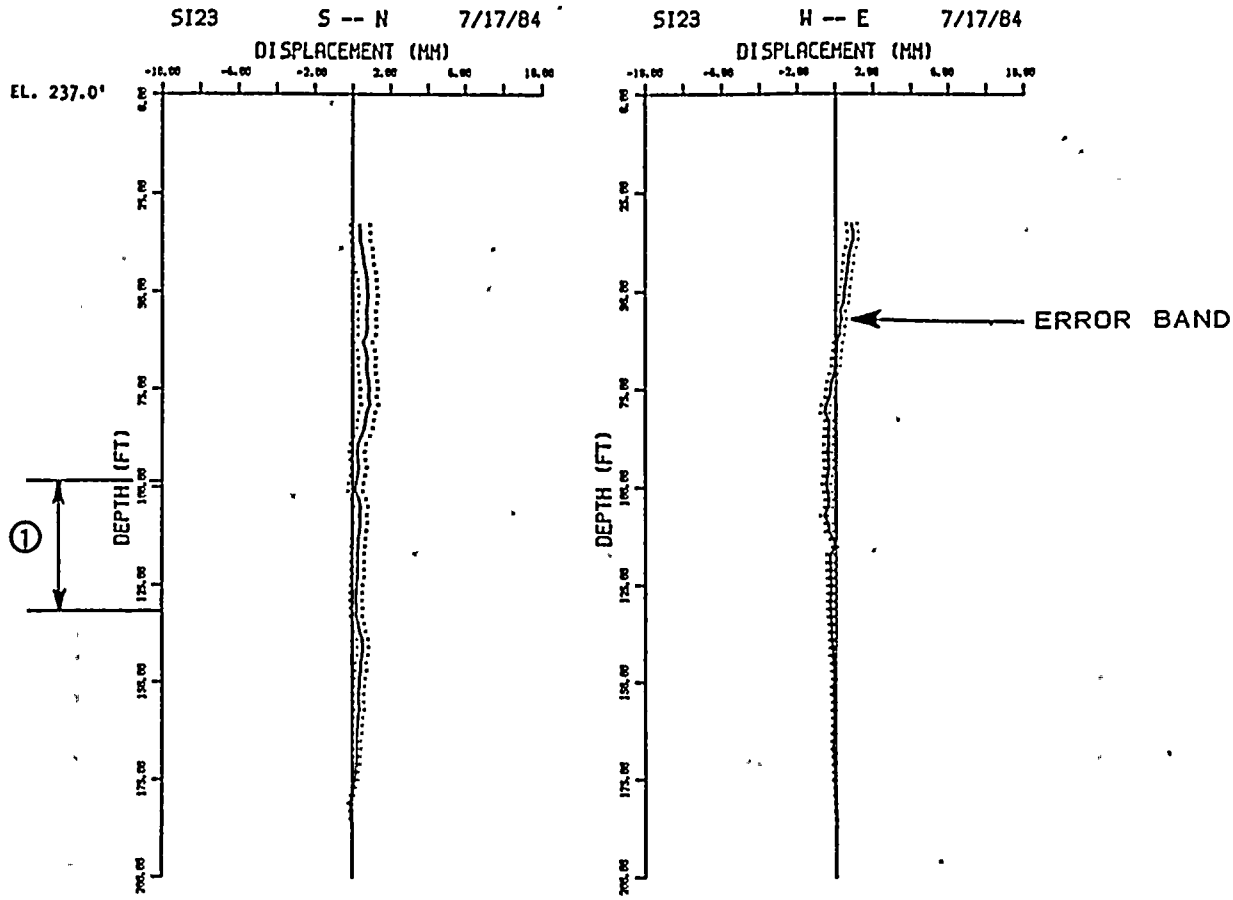
FIGURE 8




INCLINOMETER SI-22
DISPLACEMENT VS. DEPTH PLOTS

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 9



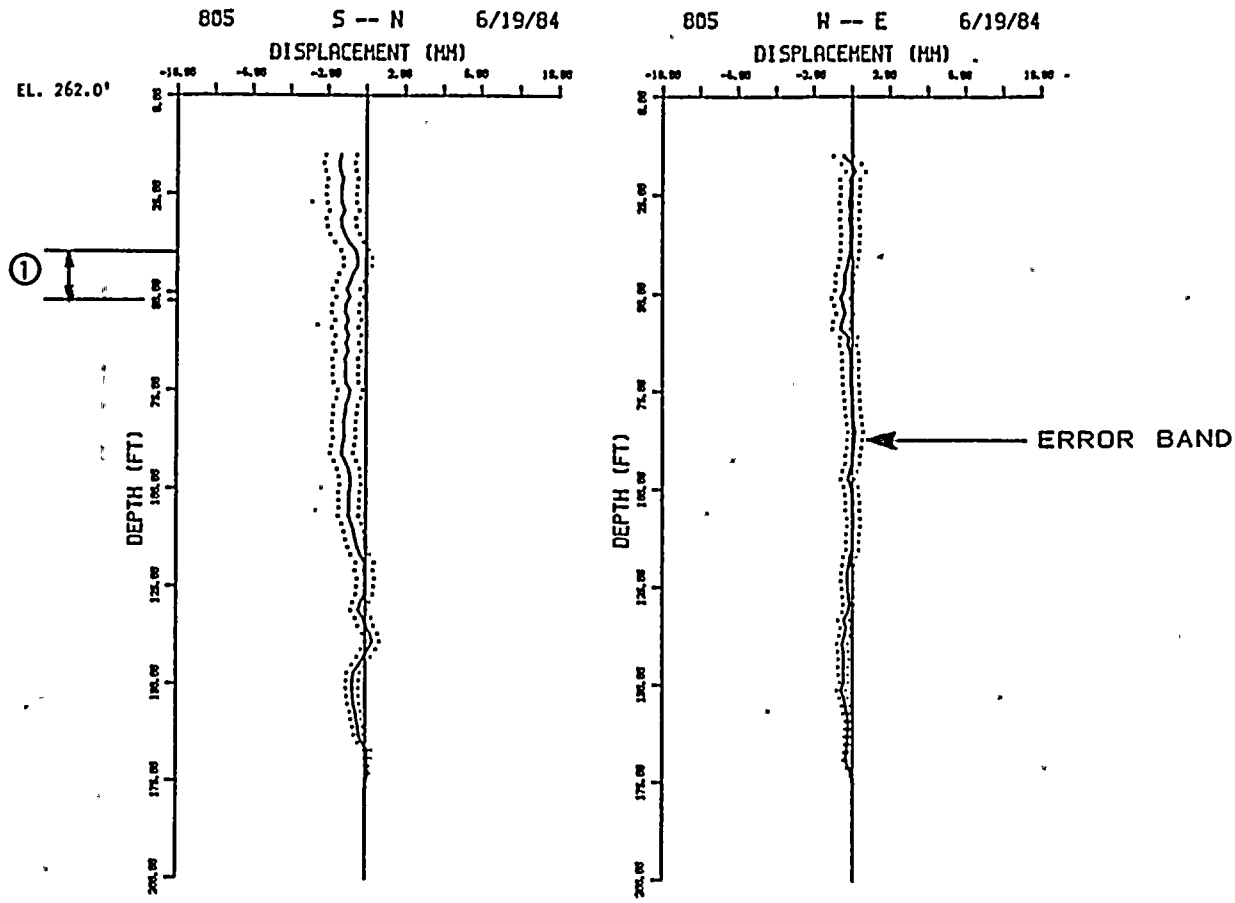

NOTE:

① See Figure 26 for Time-Displacement Plot of this zone.

INCLINOMETER SI-23
DISPLACEMENT VS. DEPTH PLOTS

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 10



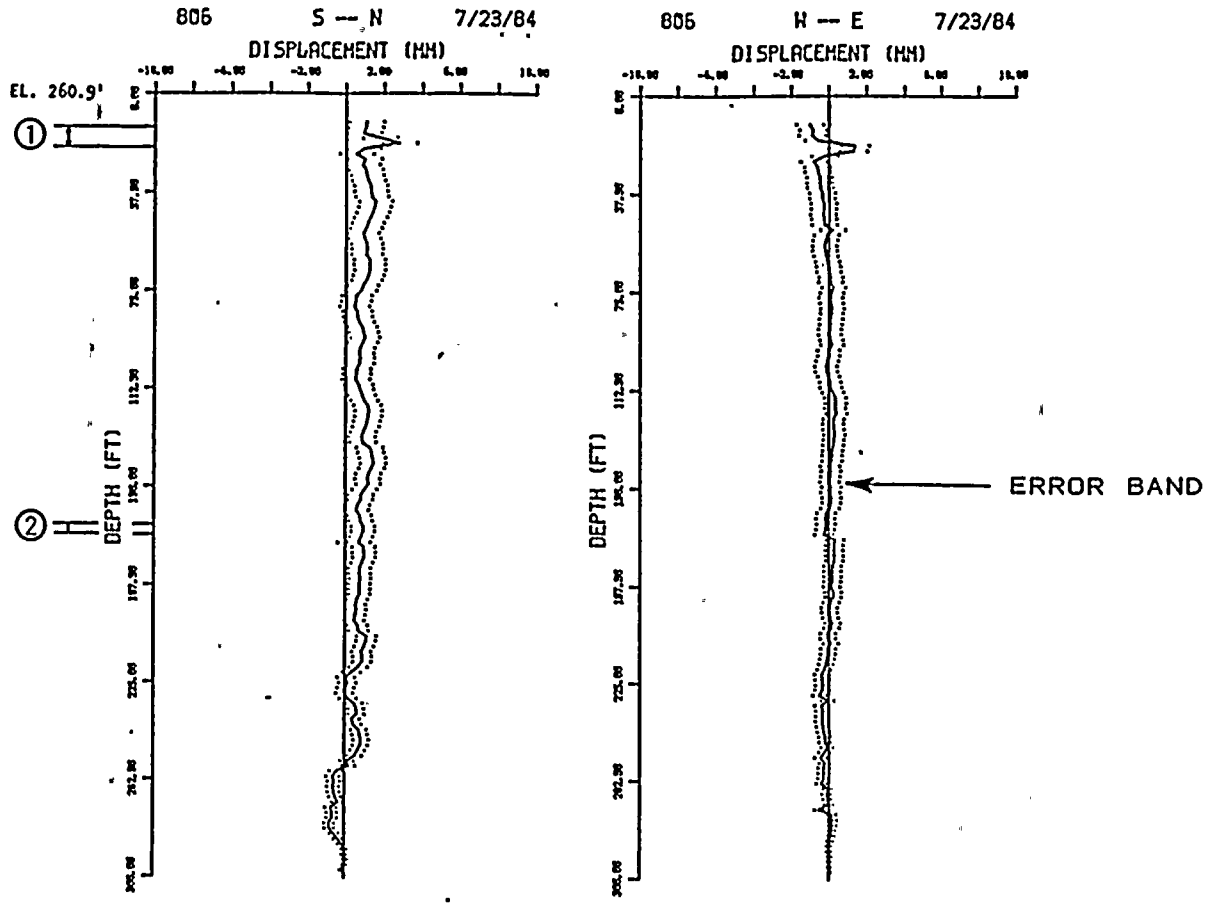

NOTE:

① See Figure 16 for Time-Displacement Plot of this zone.

INCLINOMETER 805
DISPLACEMENT VS. DEPTH PLOTS

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 11




NOTE:

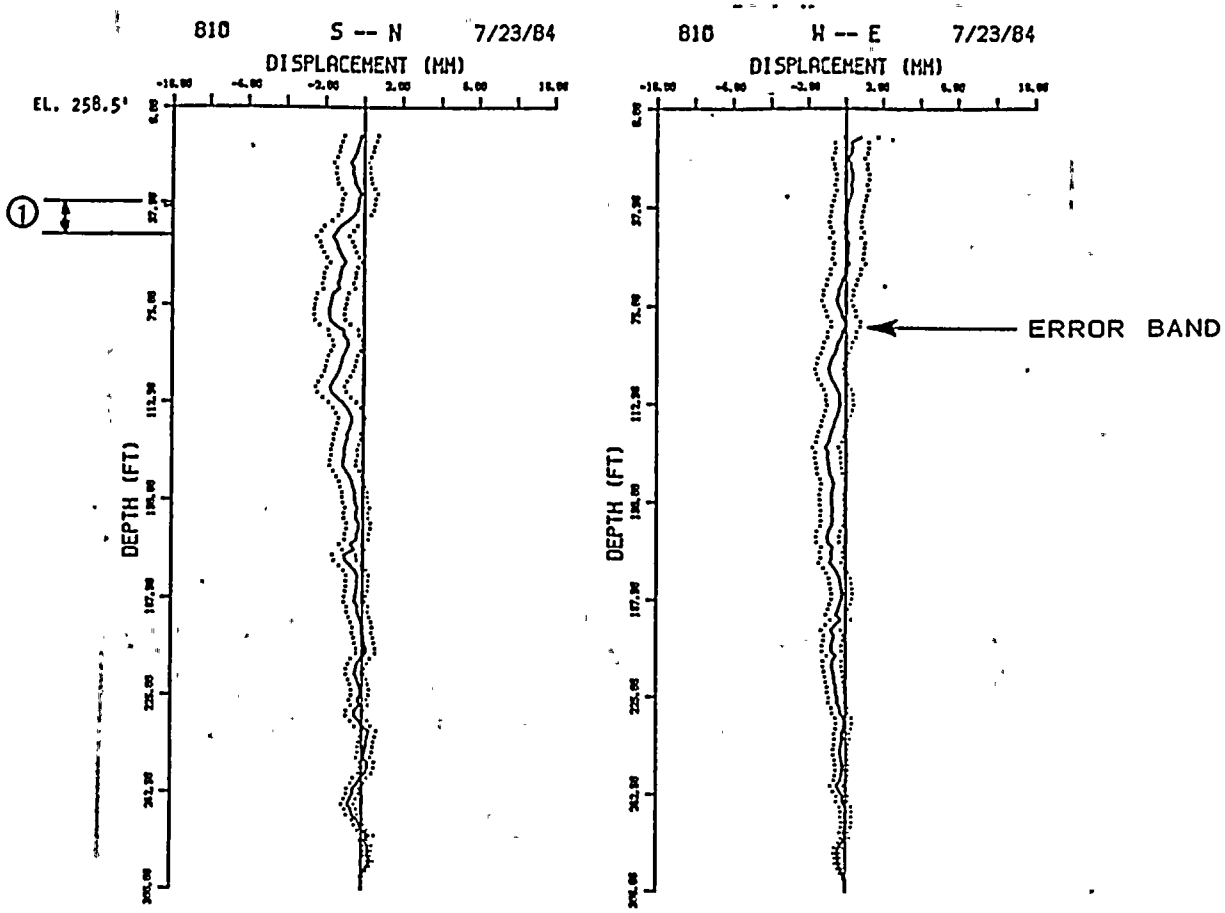
① See Figure 23 for Time-Displacement Plot of this zone.

② See Figure 19 for Time-Displacement Plot of this zone.

INCLINOMETER 806
DISPLACEMENT VS. DEPTH PLOTS

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 12



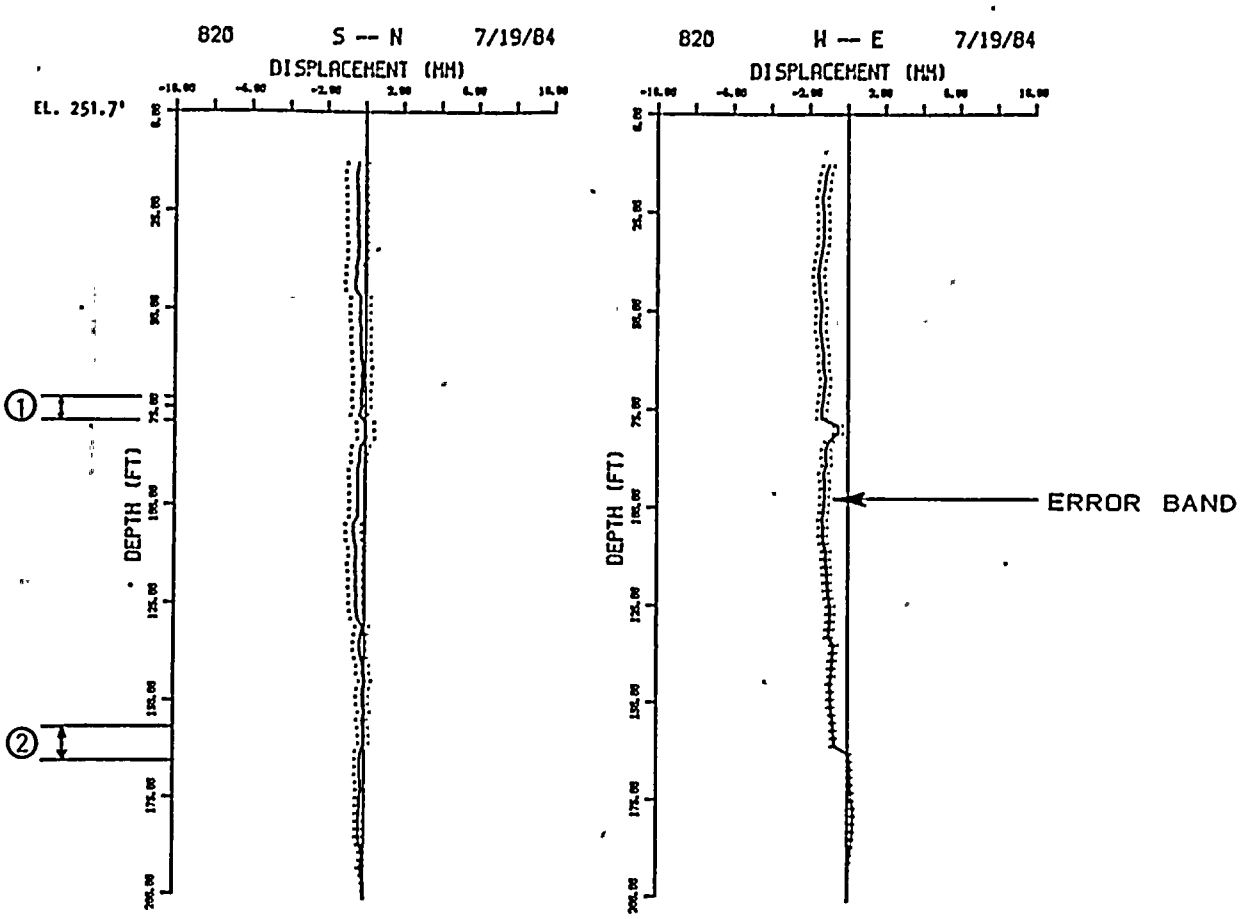

NOTE:

① See Figure 17 for Time-Displacement Plot of this zone.

INCLINOMETER 810
DISPLACEMENT VS. DEPTH PLOTS

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 13




NOTE:

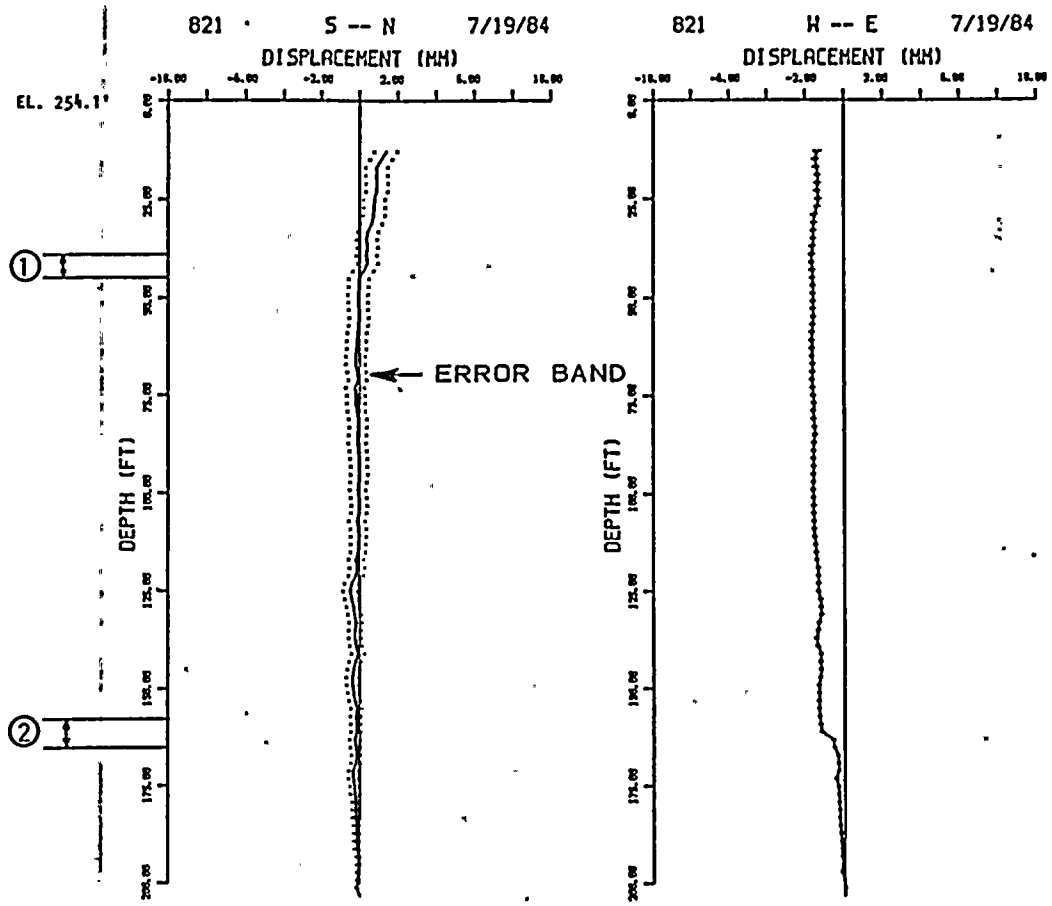
① See Figure 22 for Time-Displacement Plot of this zone.

② See Figure 20 for Time-Displacement Plot of this zone.

INCLINOMETER 820
DISPLACEMENT VS. DEPTH PLOTS

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 14




NOTE:

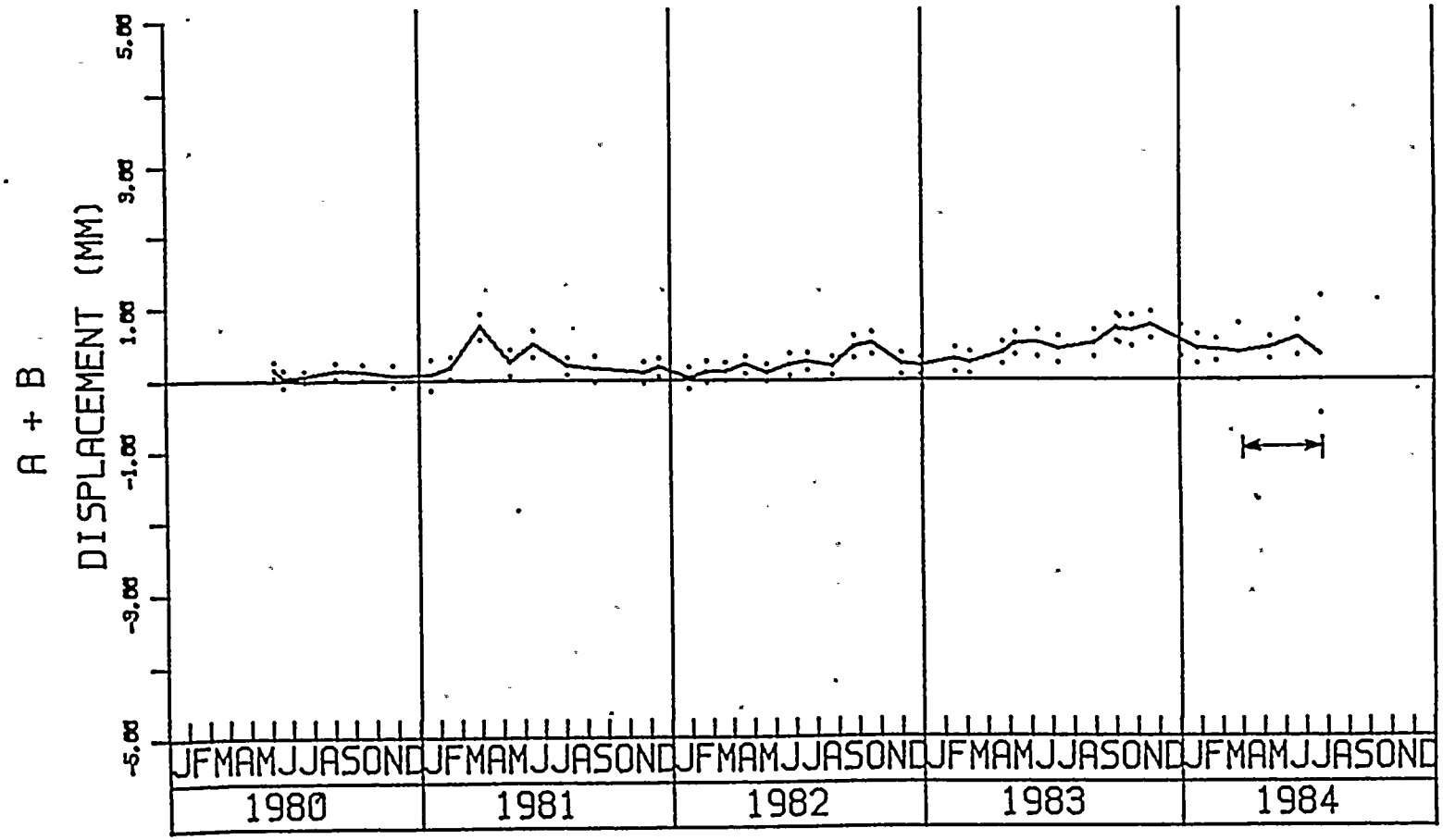
① See Figure 18 for Time-Displacement Plot of this zone.

② See Figure 21 for Time-Displacement Plot of this zone.

INCLINOMETER 821
DISPLACEMENT VS. DEPTH PLOTS

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 15

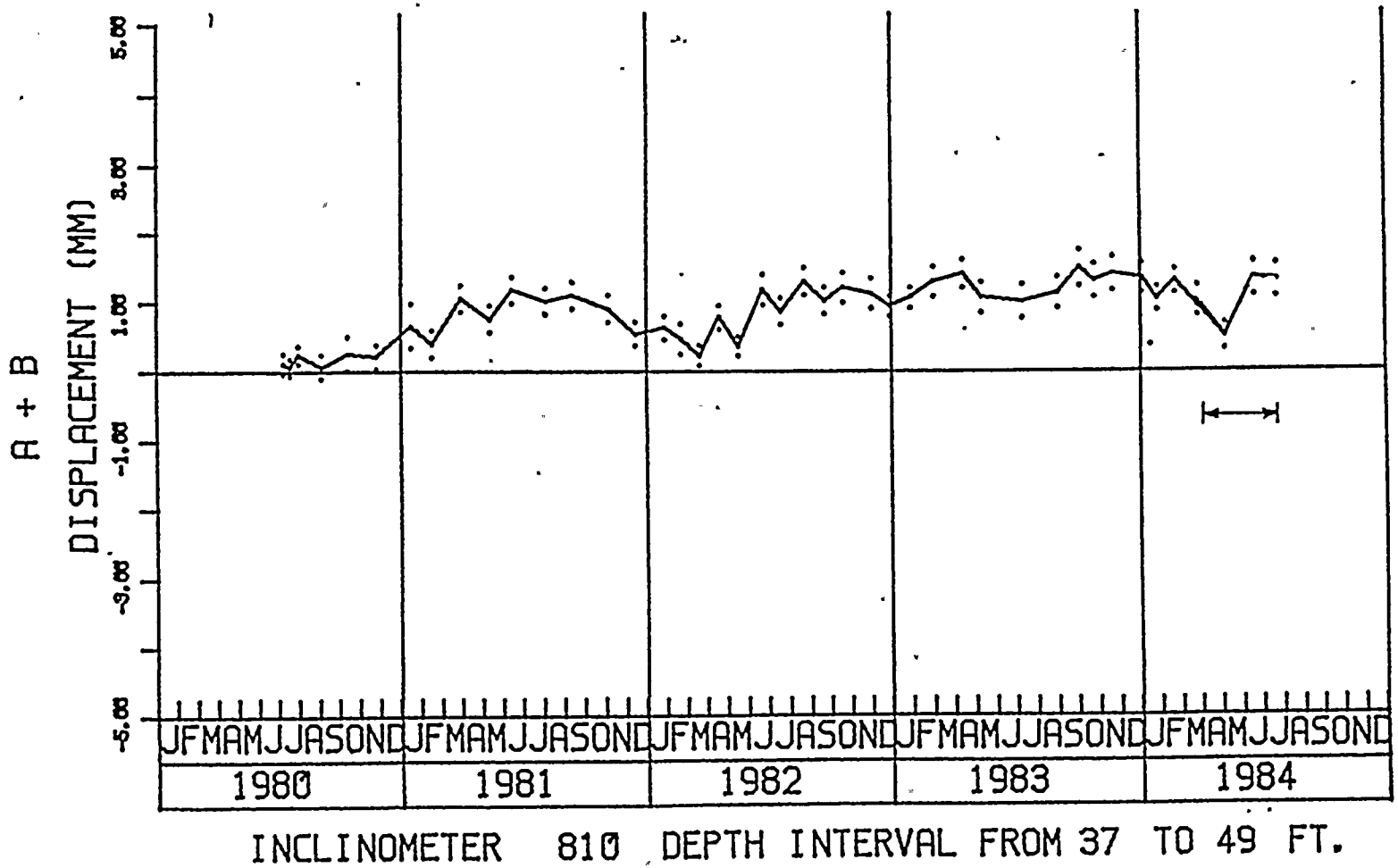



INCLINOMETER 805 DEPTH INTERVAL FROM 39 TO 51 FT.

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

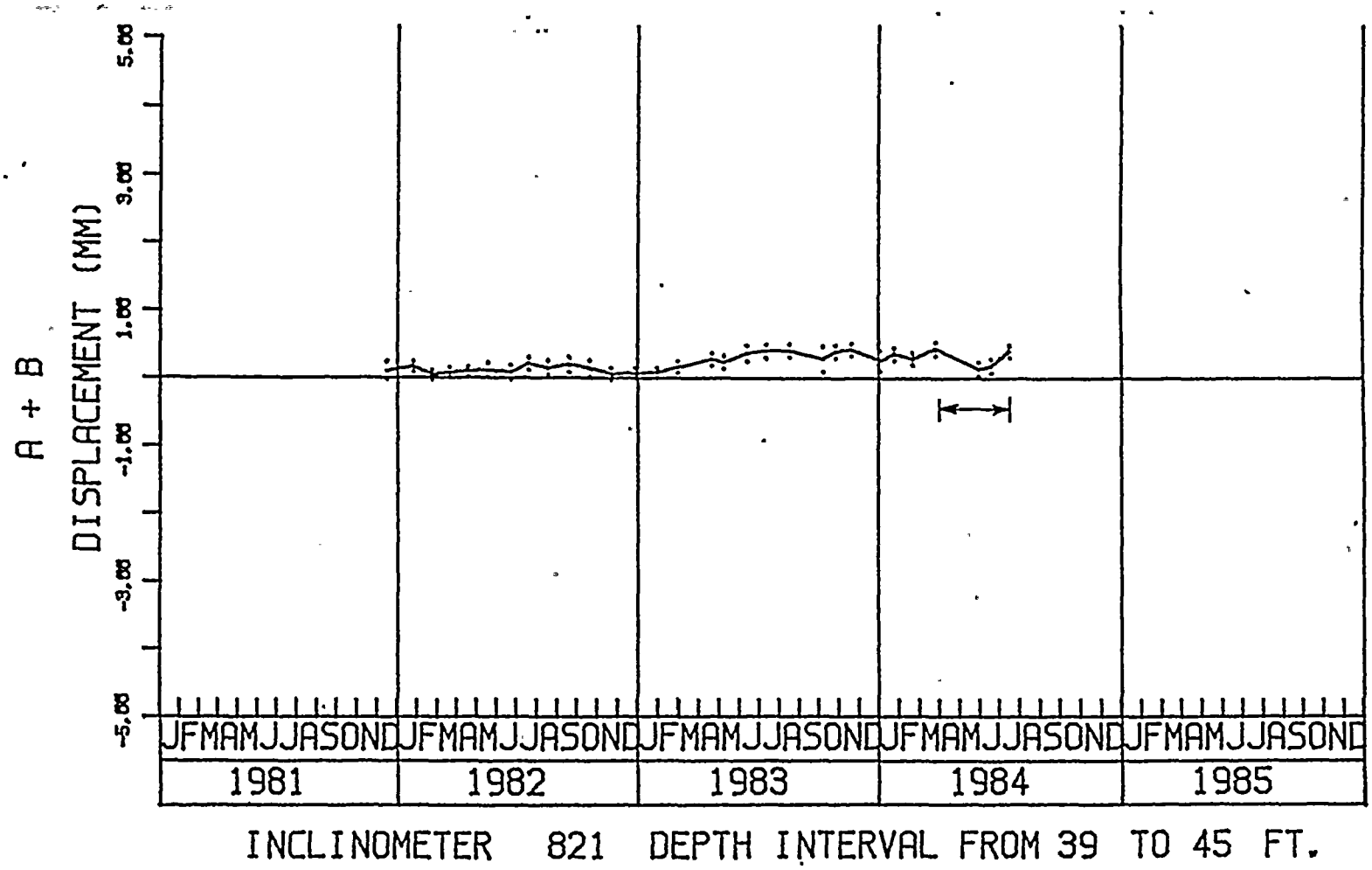
FIGURE 16




NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

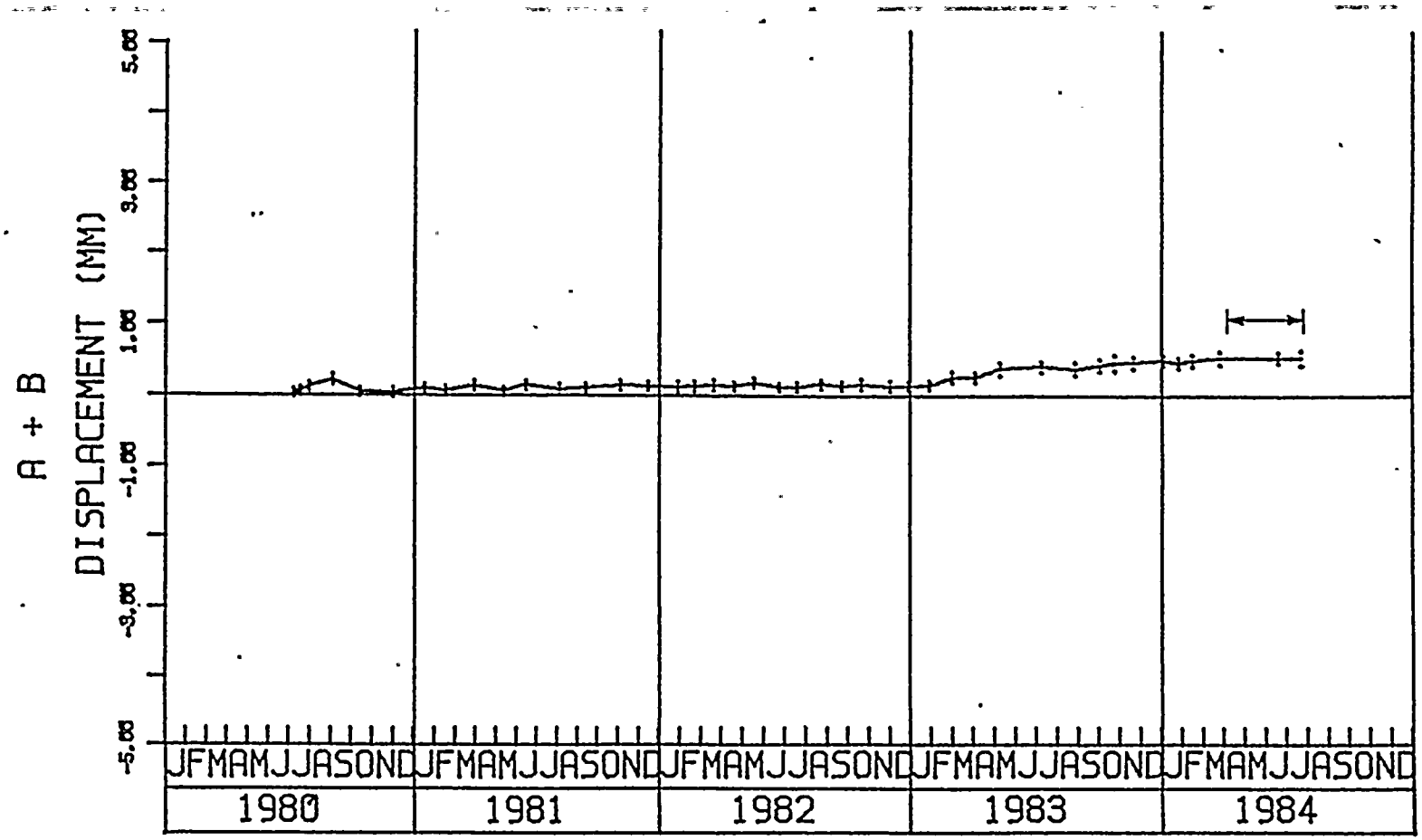
FIGURE 17




NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 18

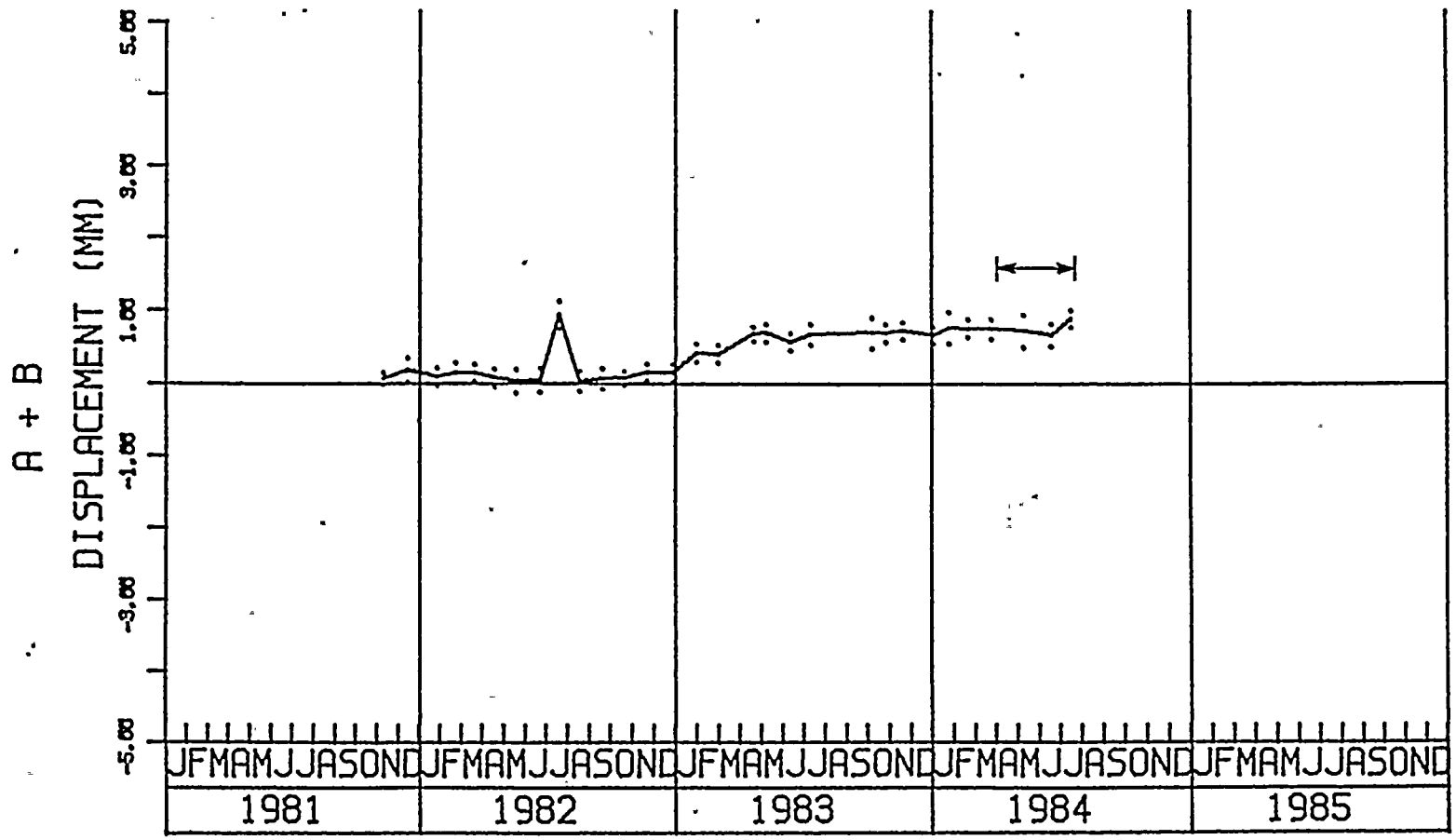



INCLINOMETER 806 DEPTH INTERVAL FROM 165 TO 169 FT.

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 19

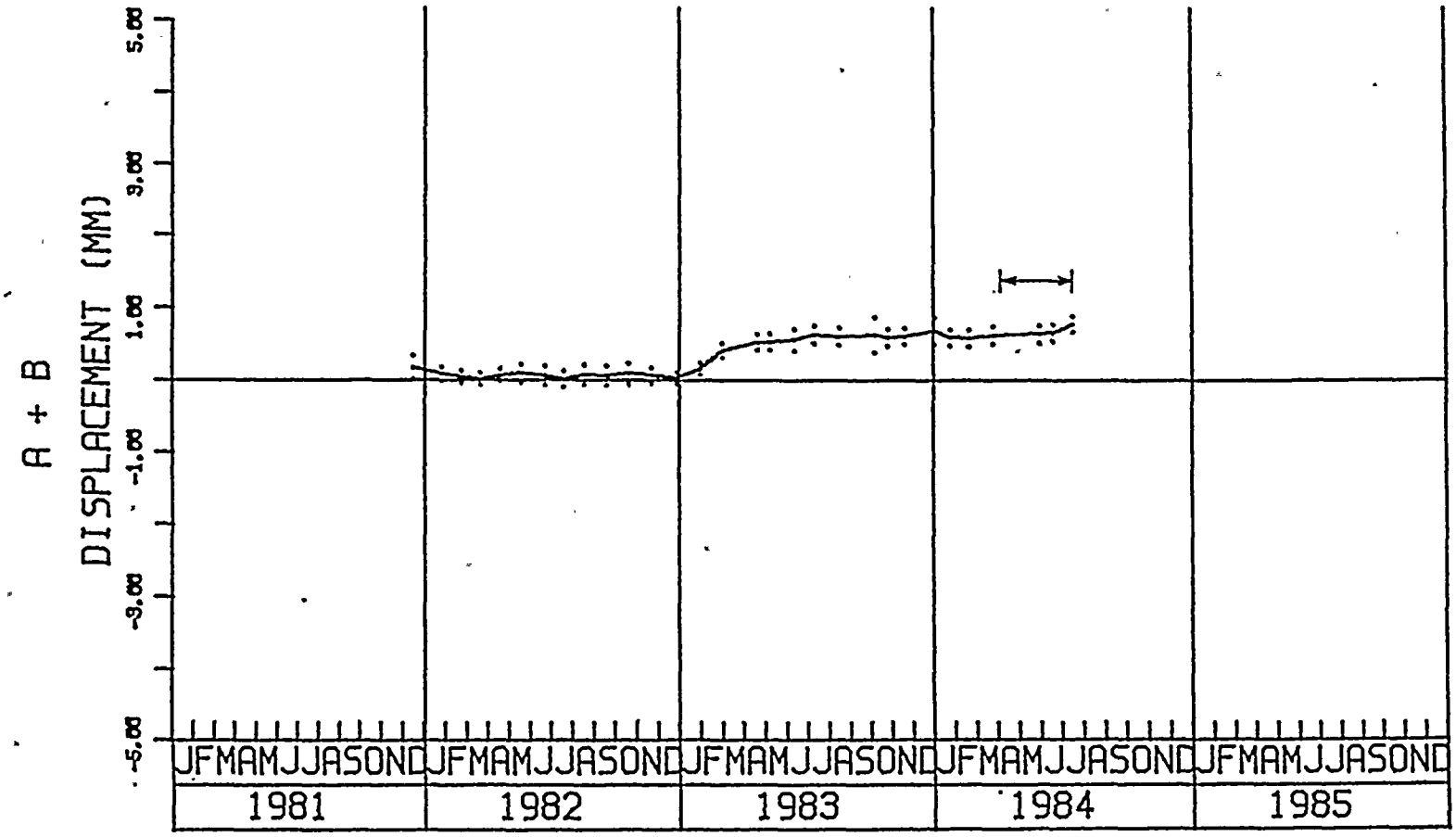



INCLINOMETER 820 DEPTH INTERVAL FROM 157 TO 165 FT.

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 20

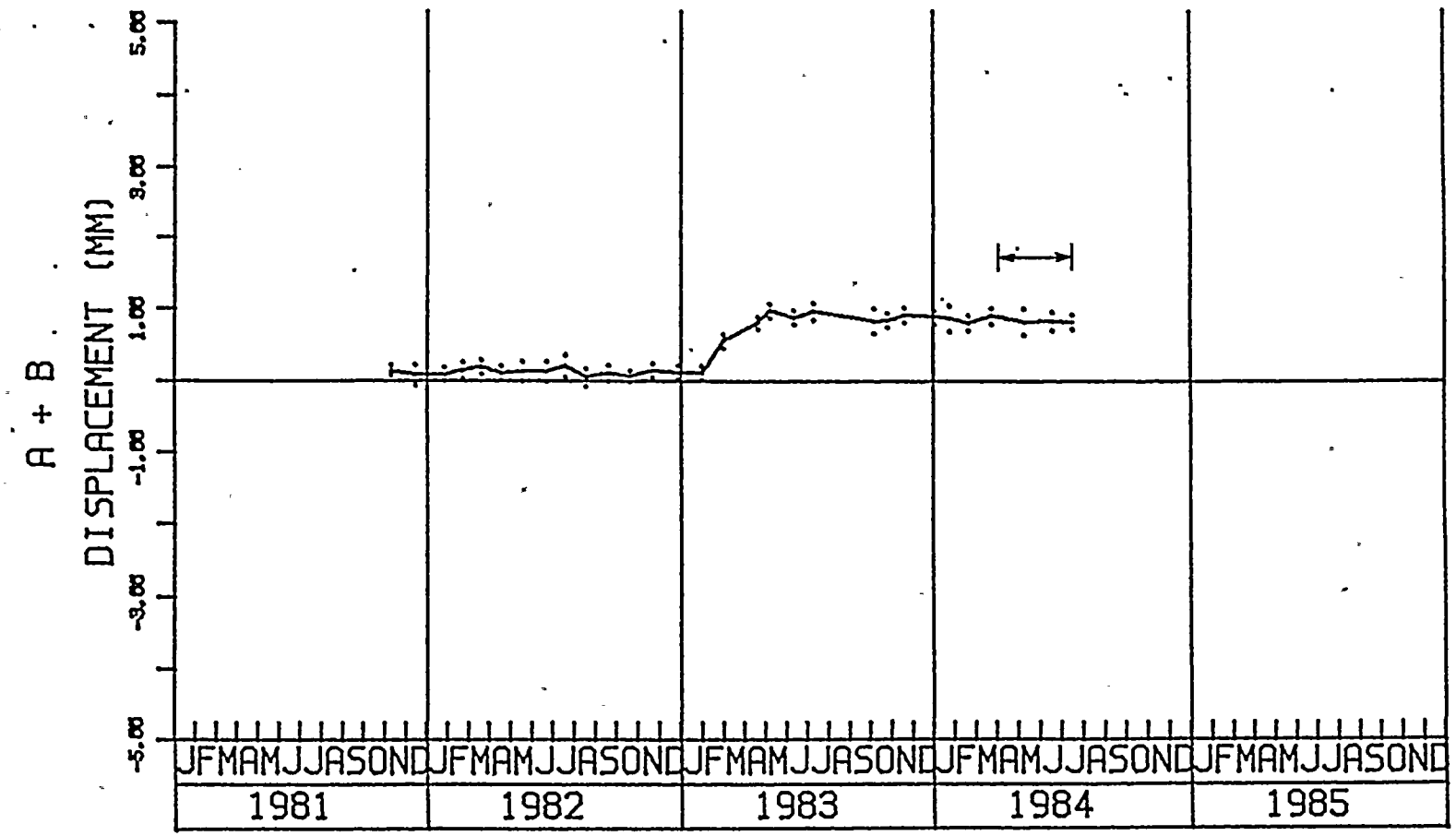



INCLINOMETER 821 DEPTH INTERVAL FROM 157 TO 165 FT.

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 21

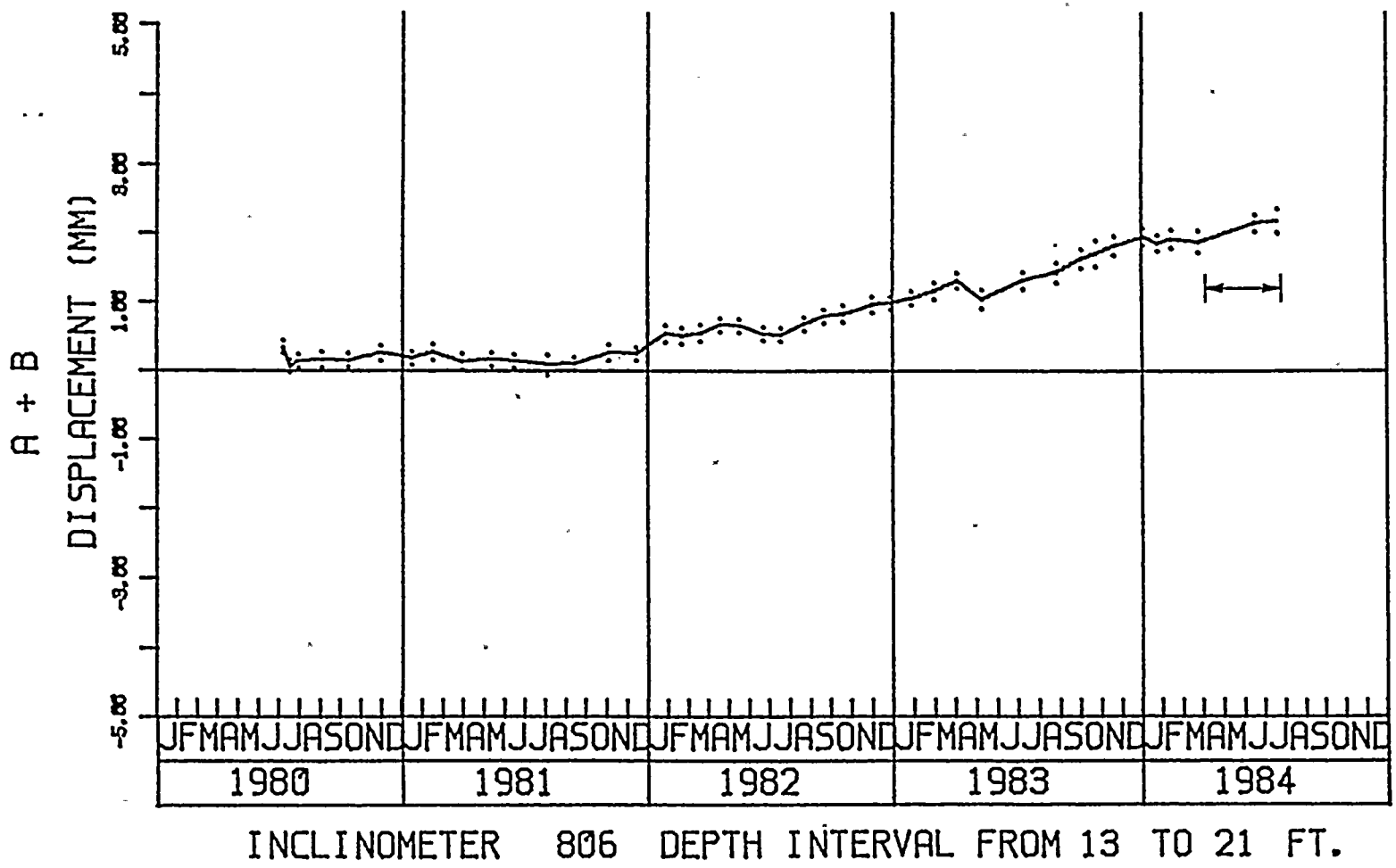



INCLINOMETER 820 DEPTH INTERVAL FROM 73 TO 79 FT.

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

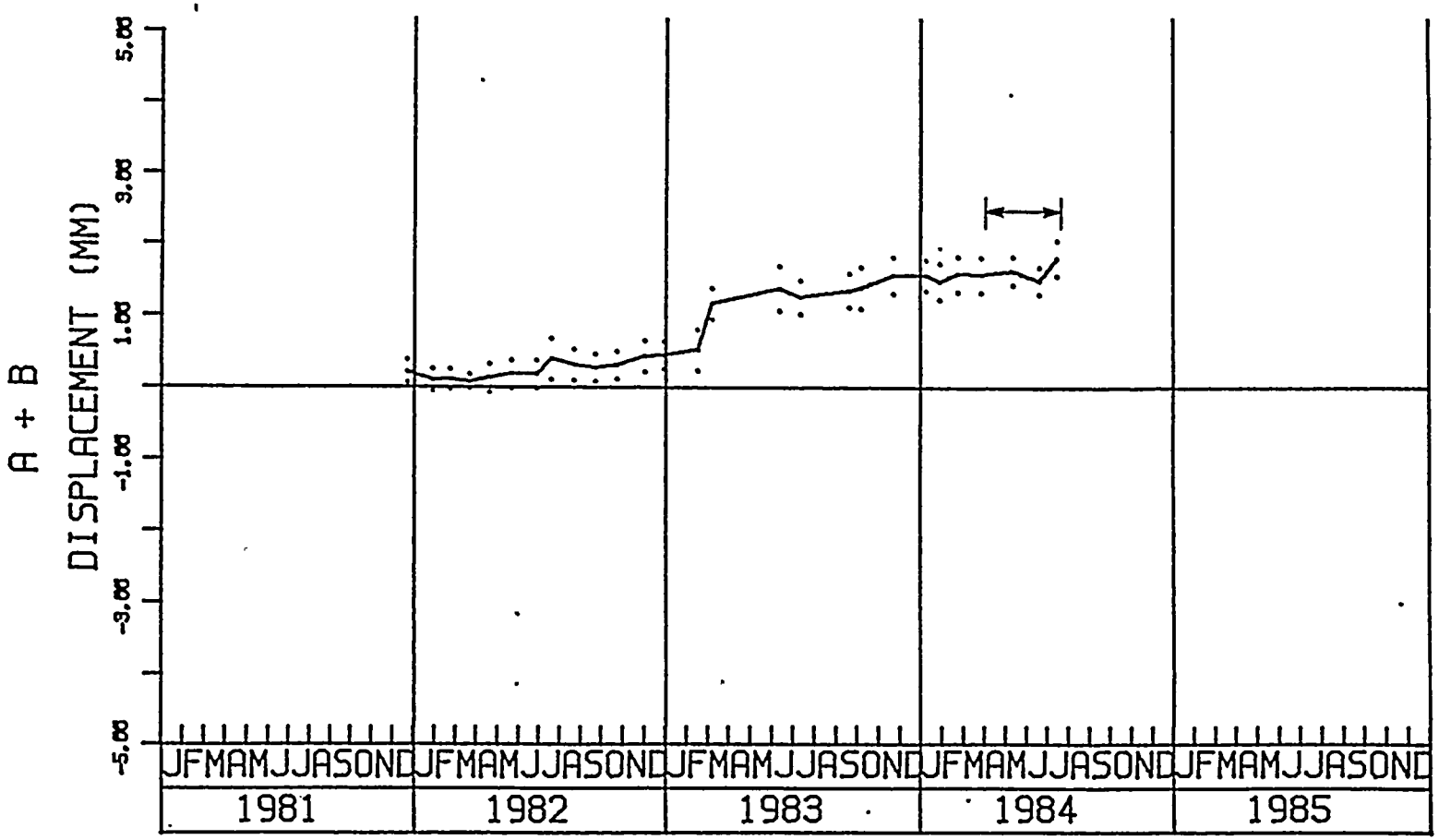
FIGURE 22




NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 23

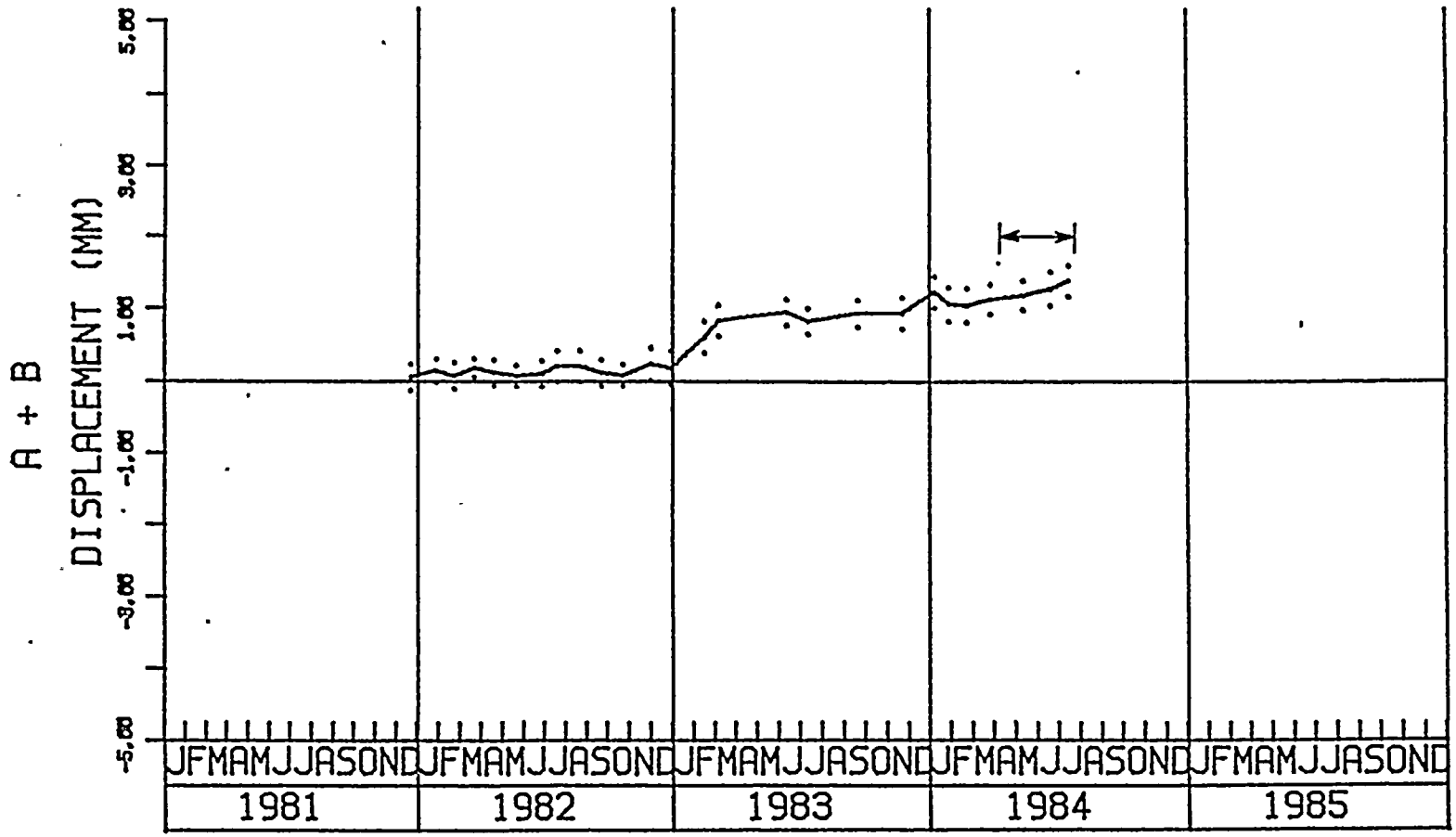



INCLINOMETER SI8 DEPTH INTERVAL FROM 57 TO 75 FT.

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 24

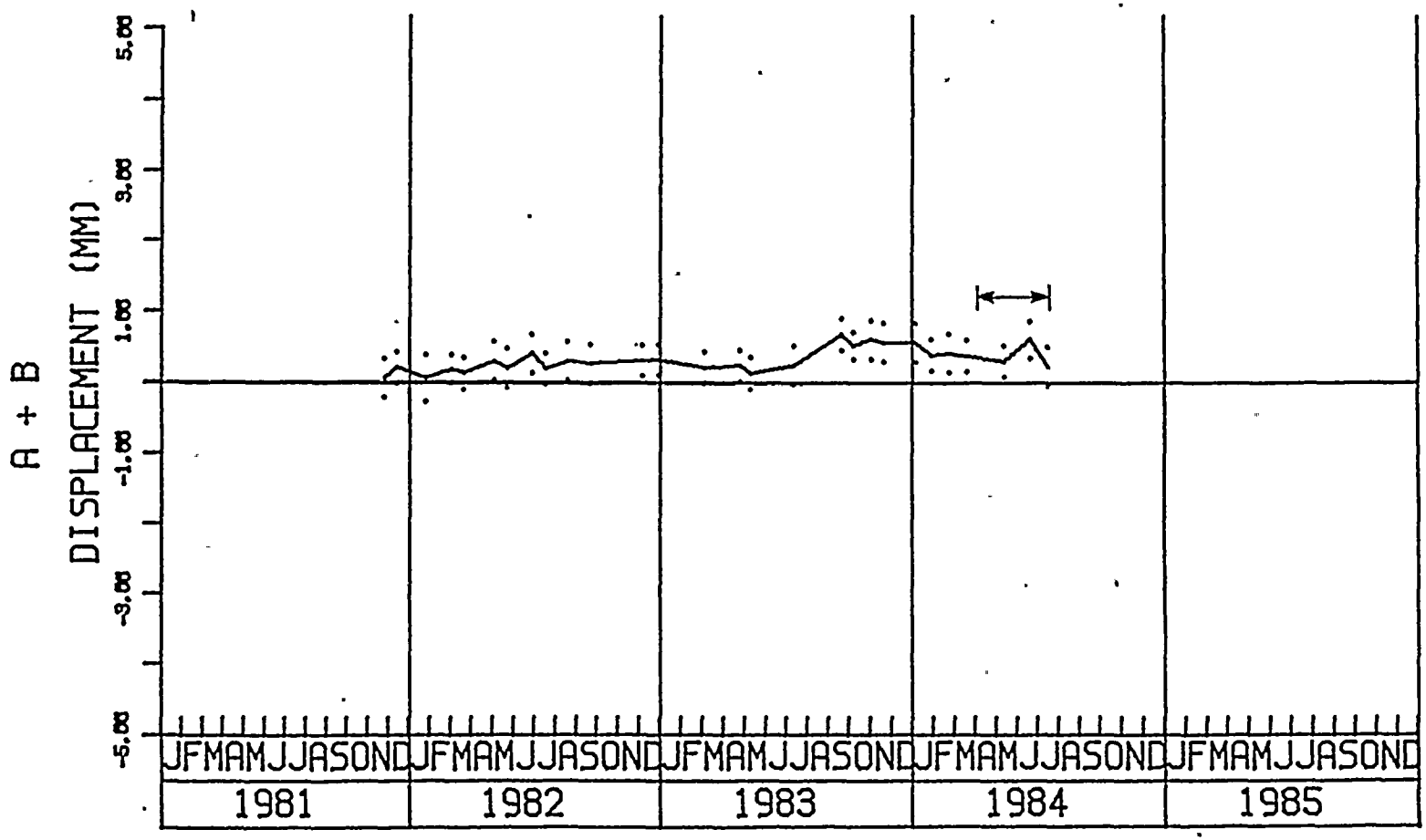



INCLINOMETER SI9 DEPTH INTERVAL FROM 63 TO 79 FT.

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 25

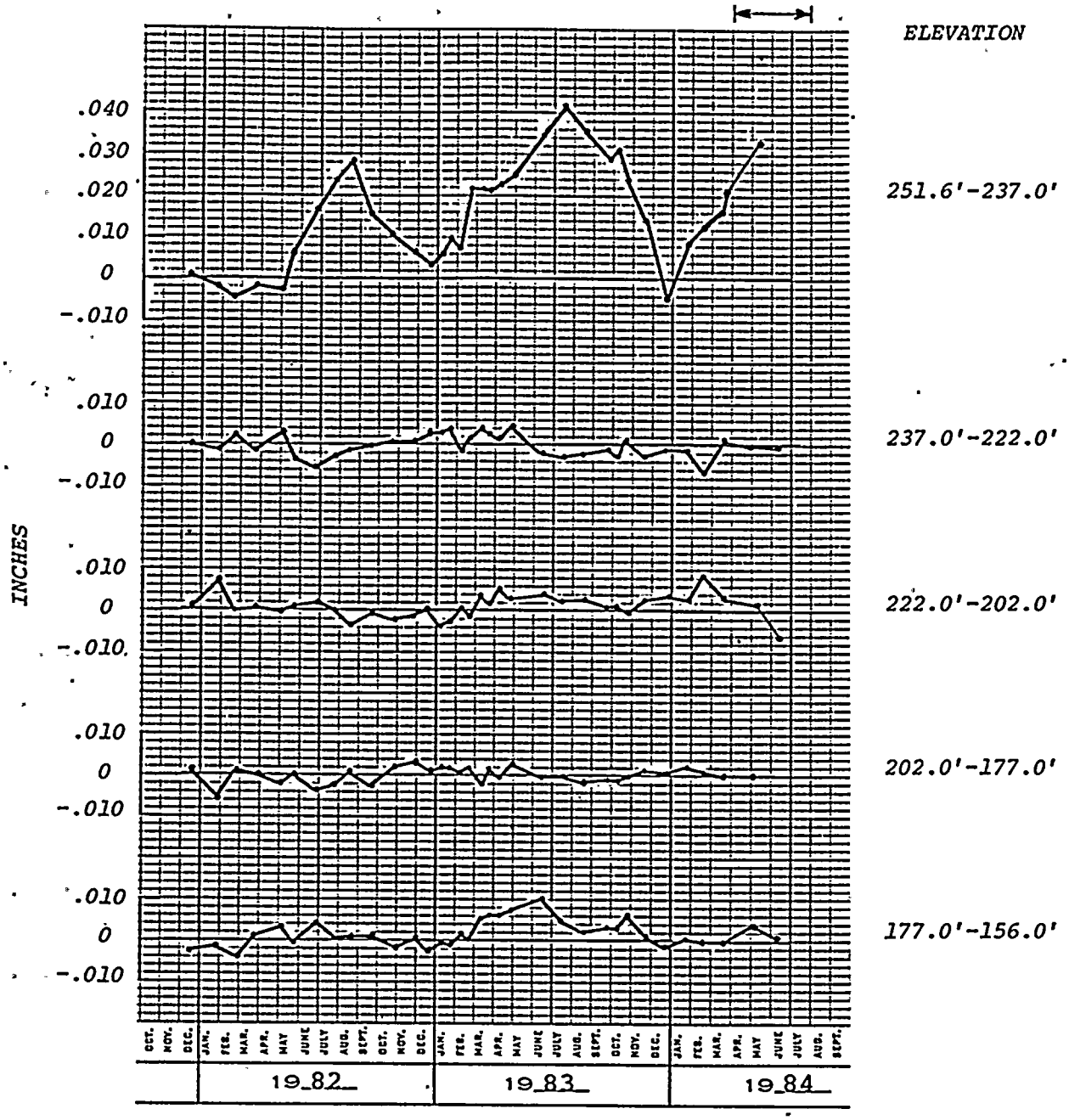



INCLINOMETER SI23 DEPTH INTERVAL FROM 99 TO 133 FT.

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 26

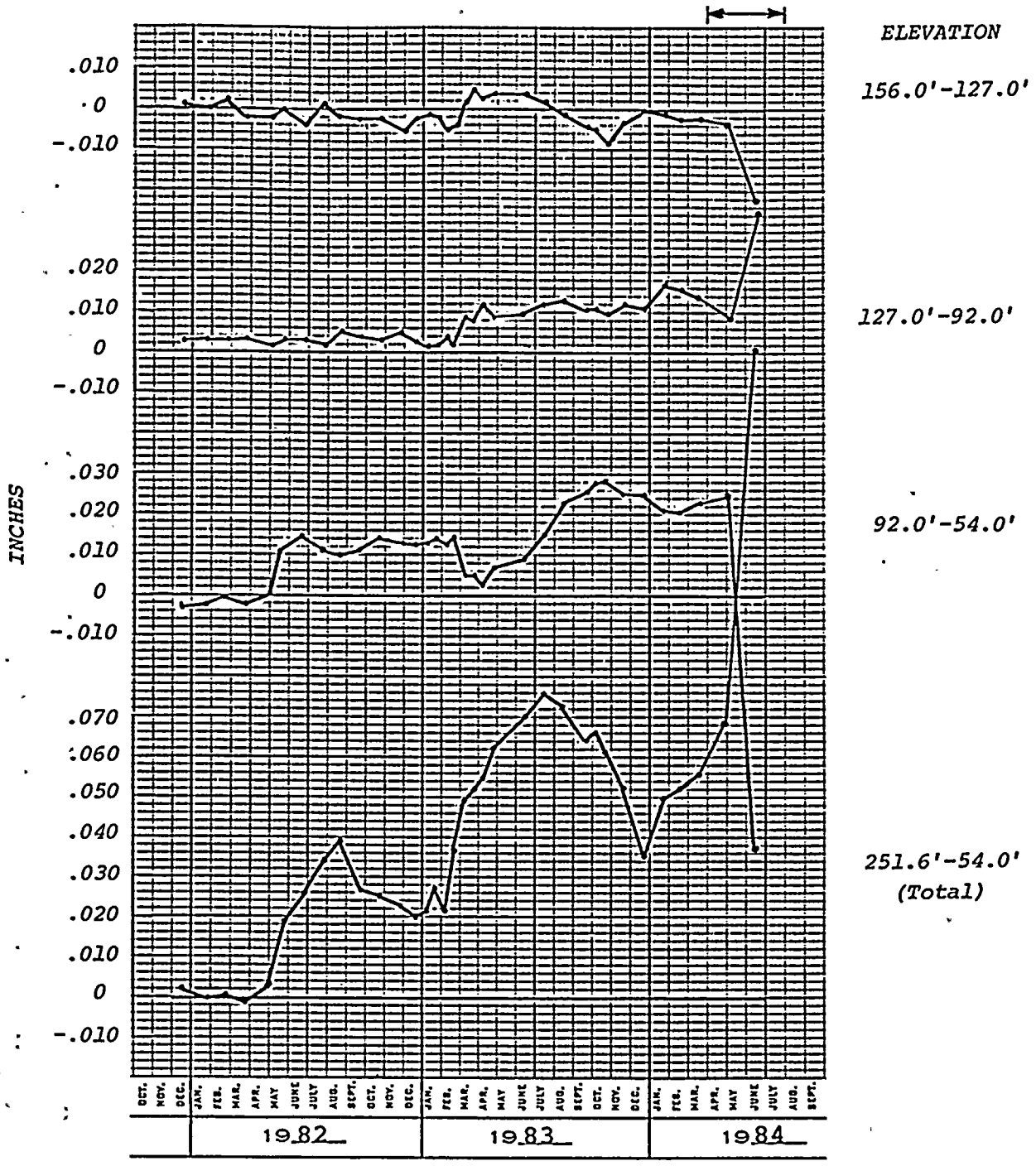



NOTE: Arrow indicates time period of data discussed in this report.

EXTENSOMETER EX-20

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 27A

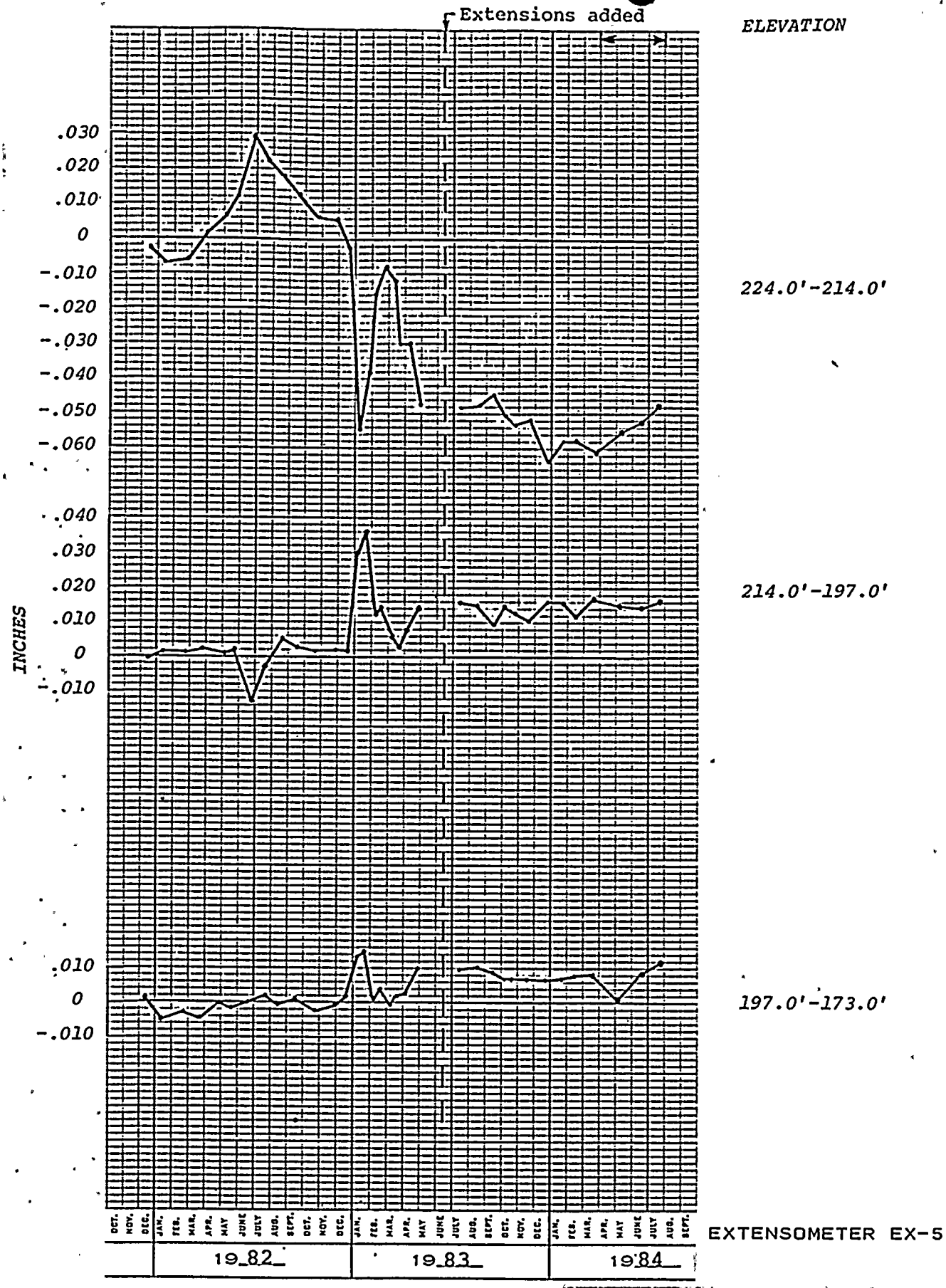



NOTE: Arrow indicates time period of data discussed in this report.

EXTENSOMETER EX-20

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 27B

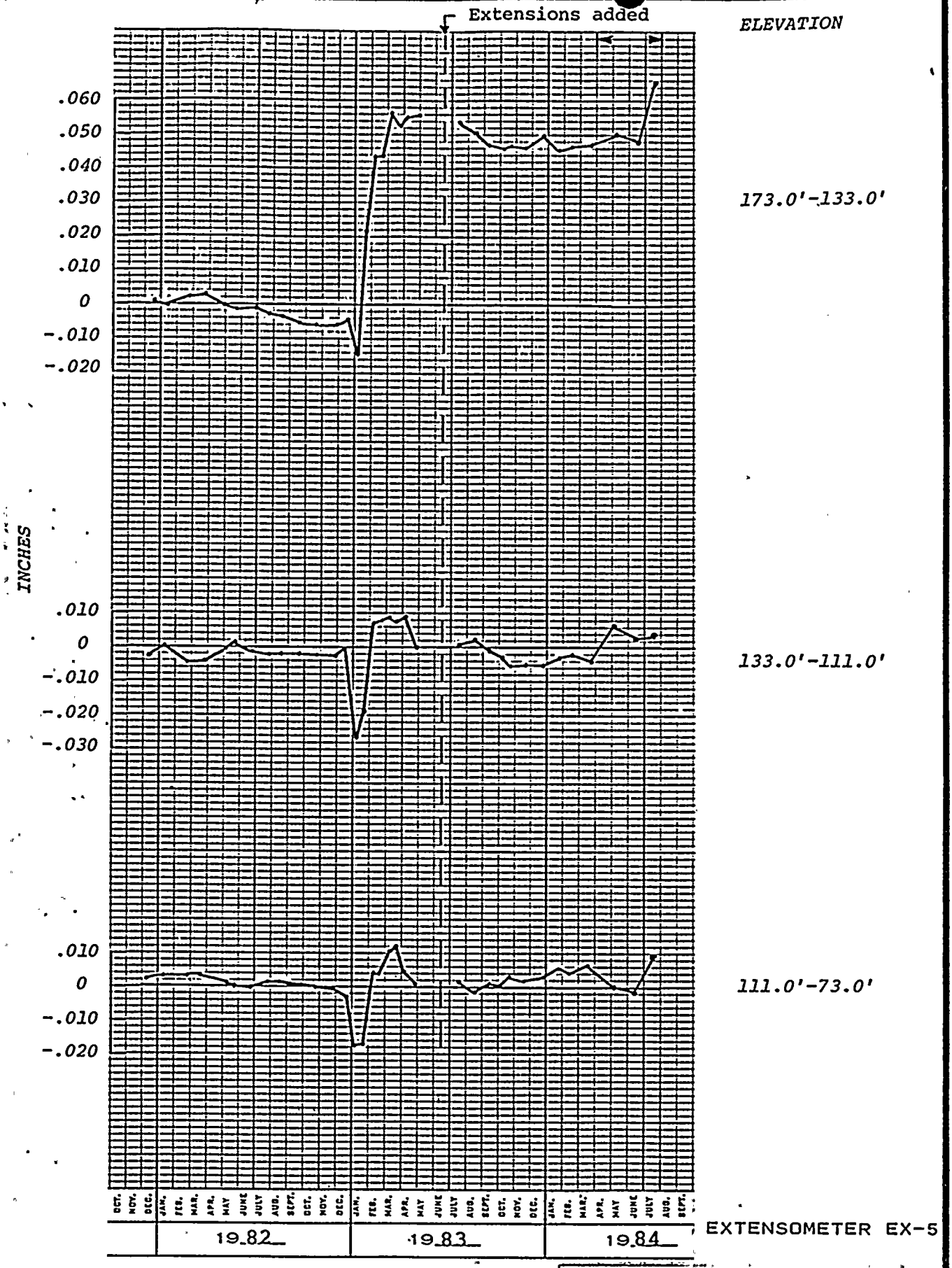



EXTENSOMETER EX-5

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 29A

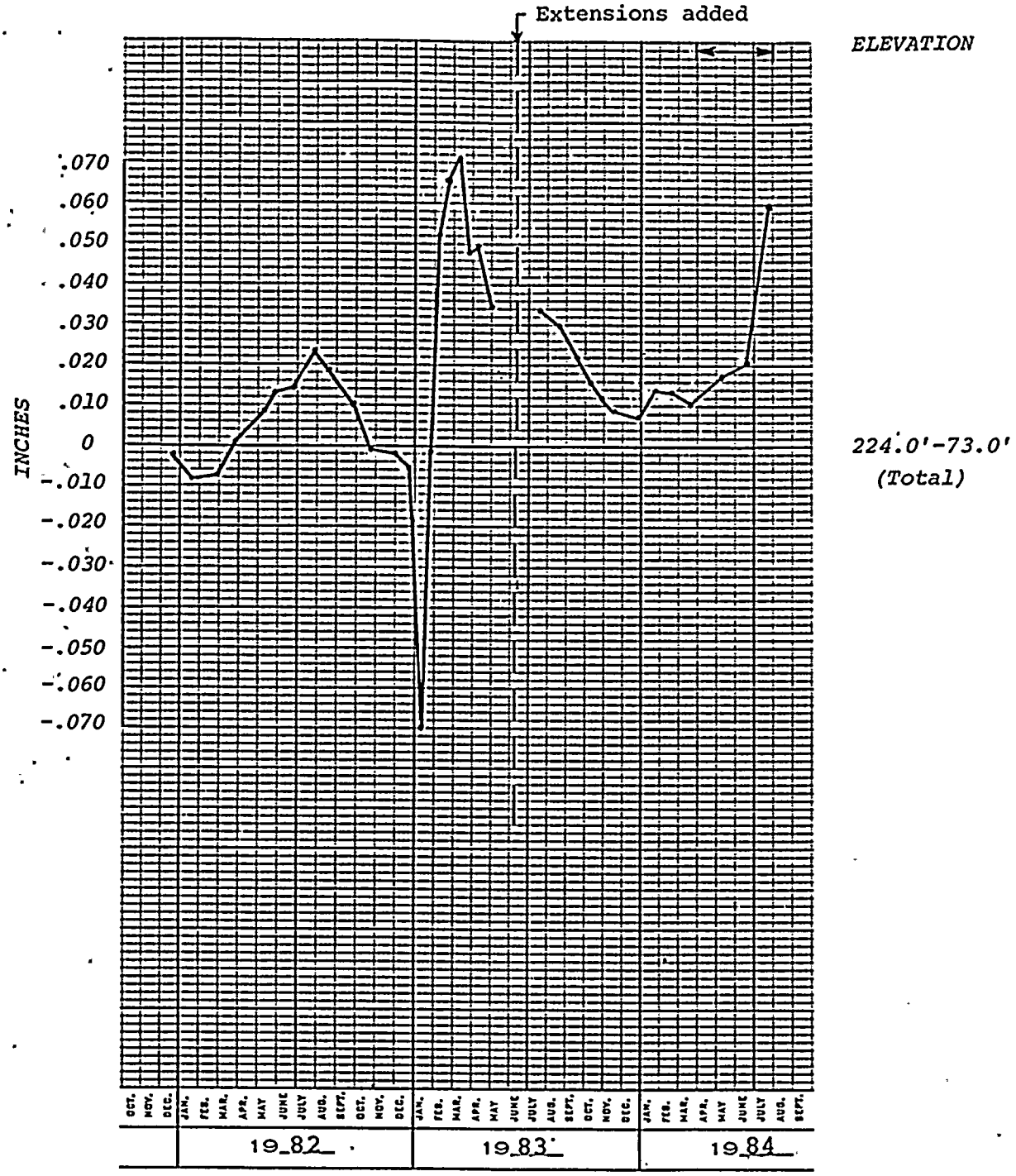



EXTENSOMETER EX-5

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 29B

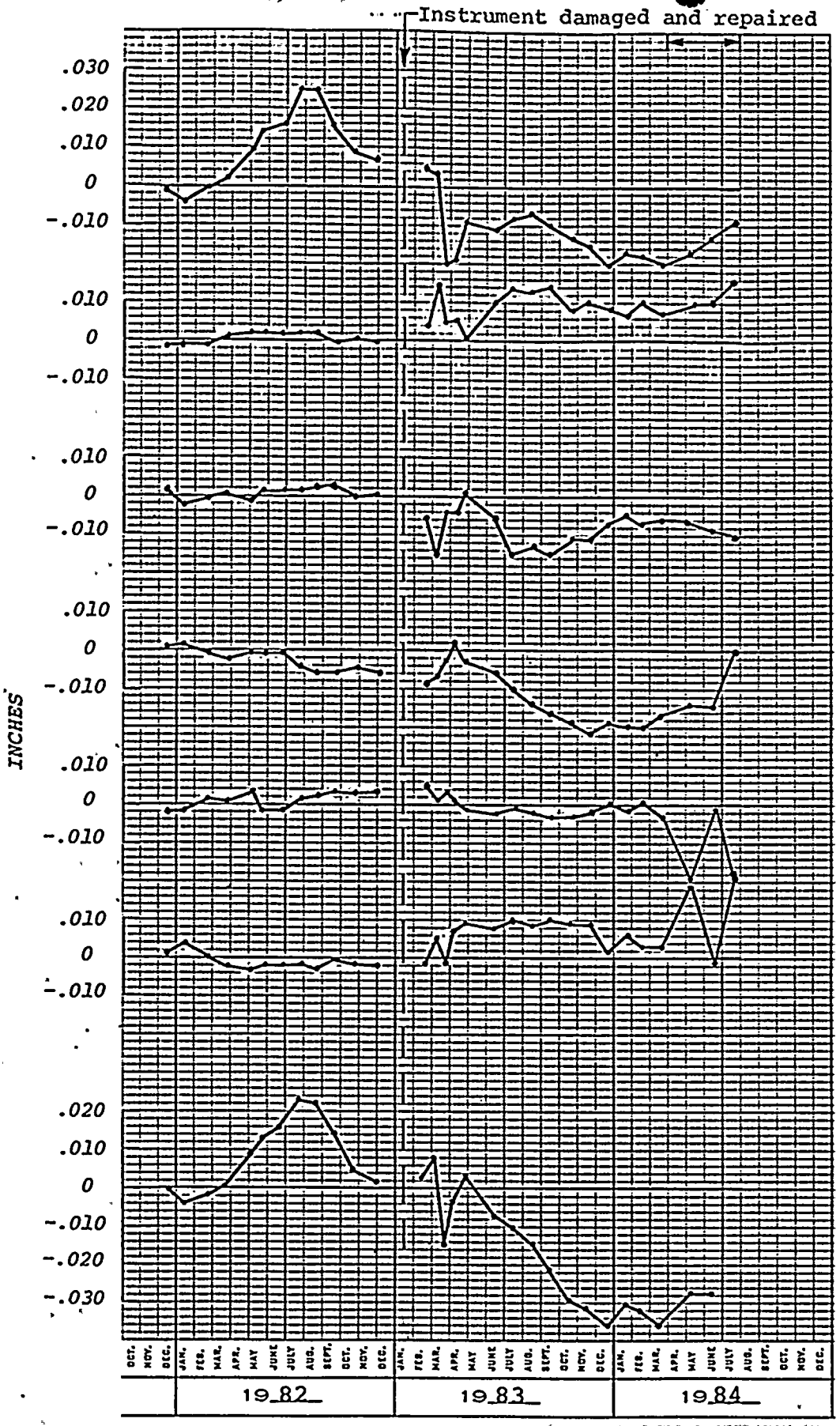



NOTE: Arrow indicates time period of data discussed in this report.

EXTENSOMETER EX-5

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 29C

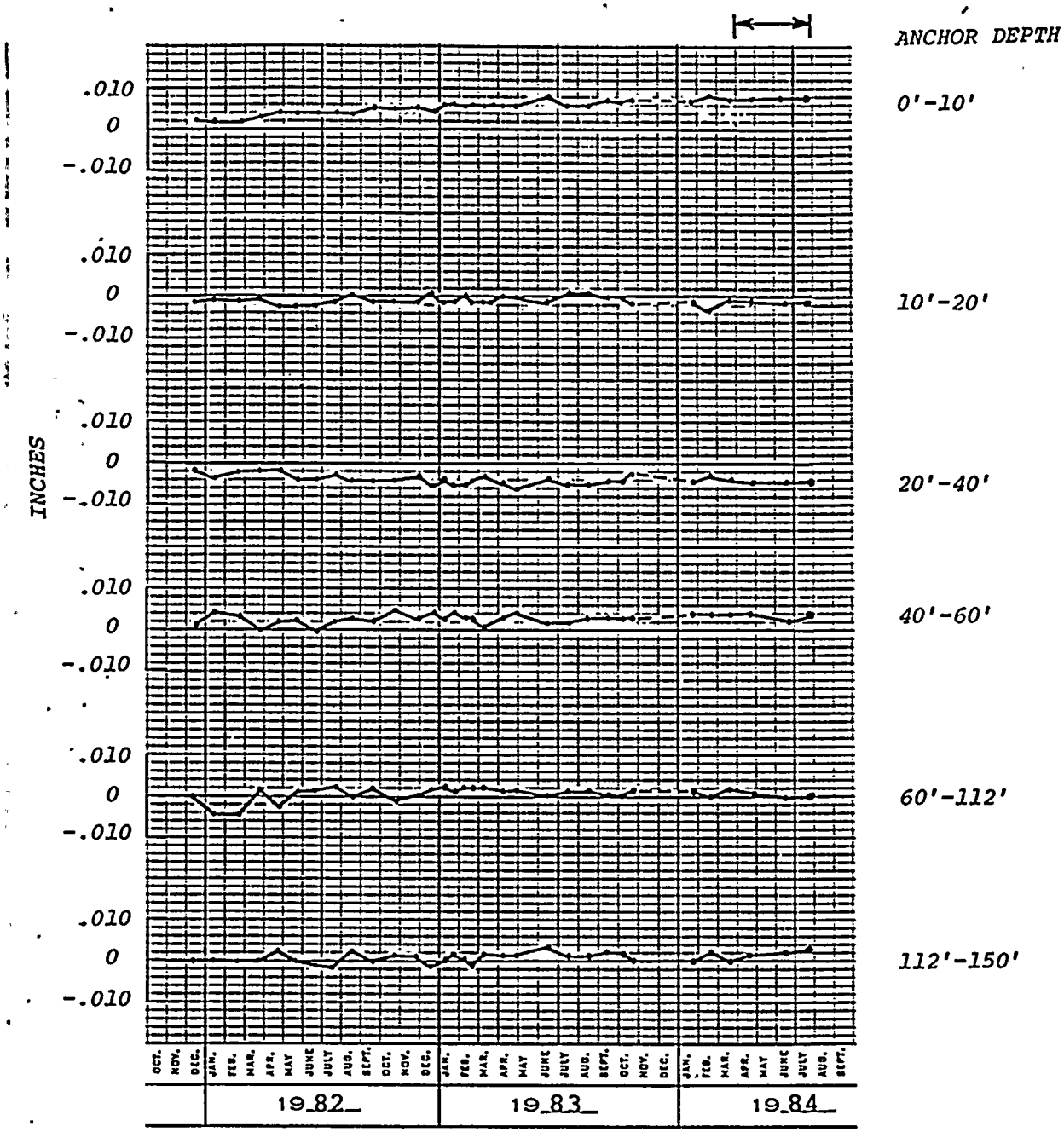



EXTENSOMETER EX-6

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 30



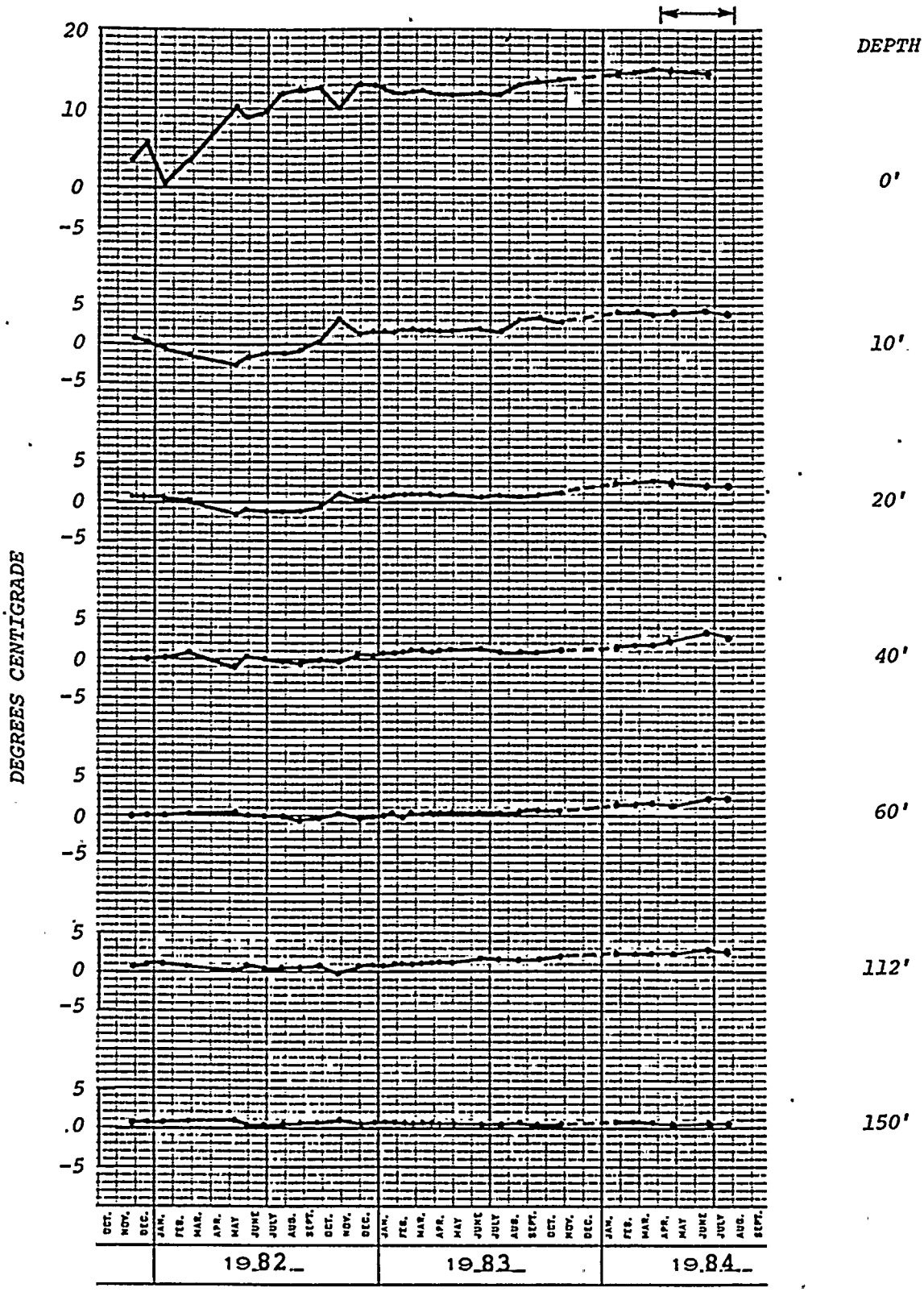

NOTE: Arrow indicates time period of data discussed in this report.

EXTENSOMETER HEX-1

SONIC PROBE

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 31A

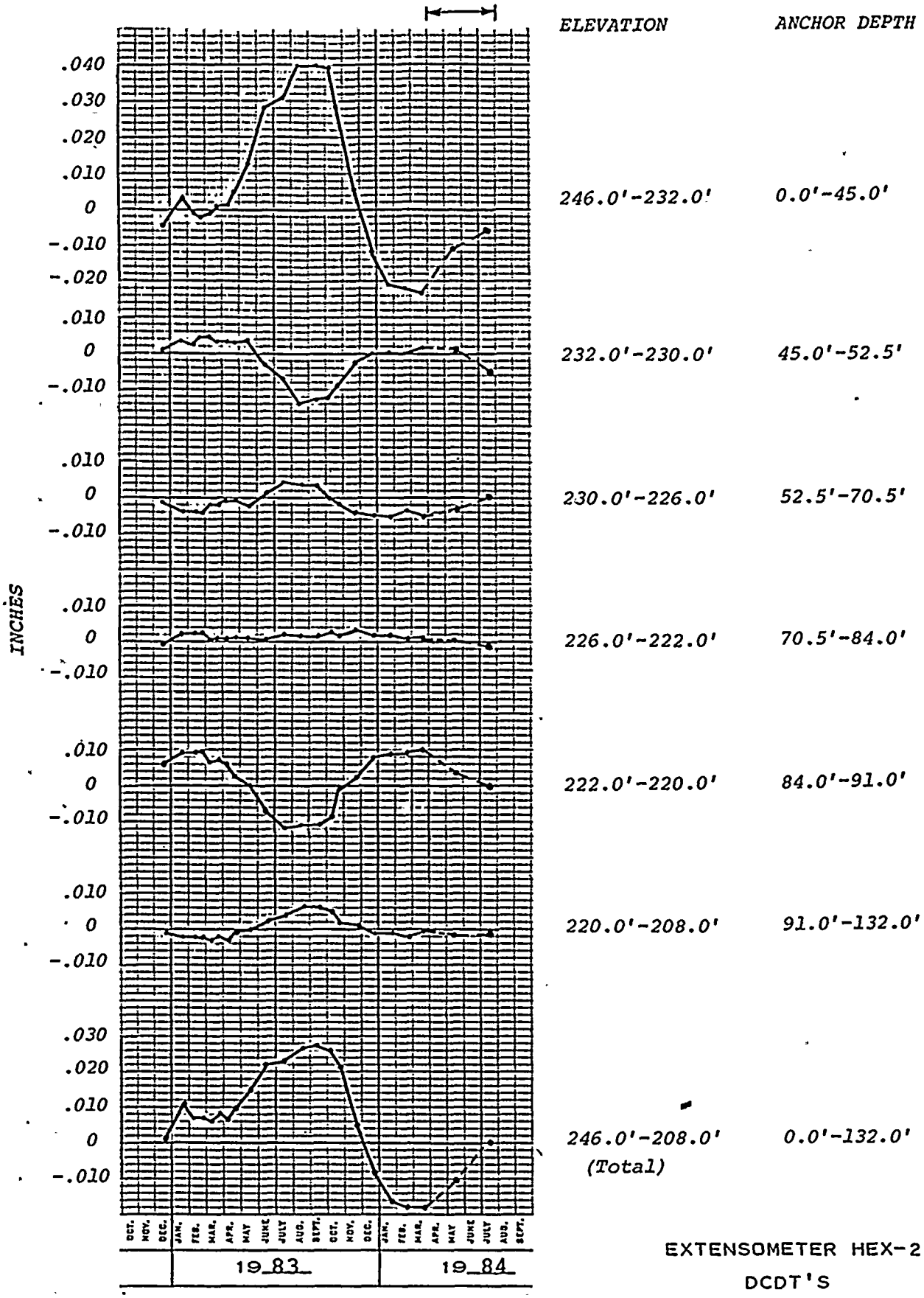



EXTENSOMETER HEX-1
THERMISTORS

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 31B

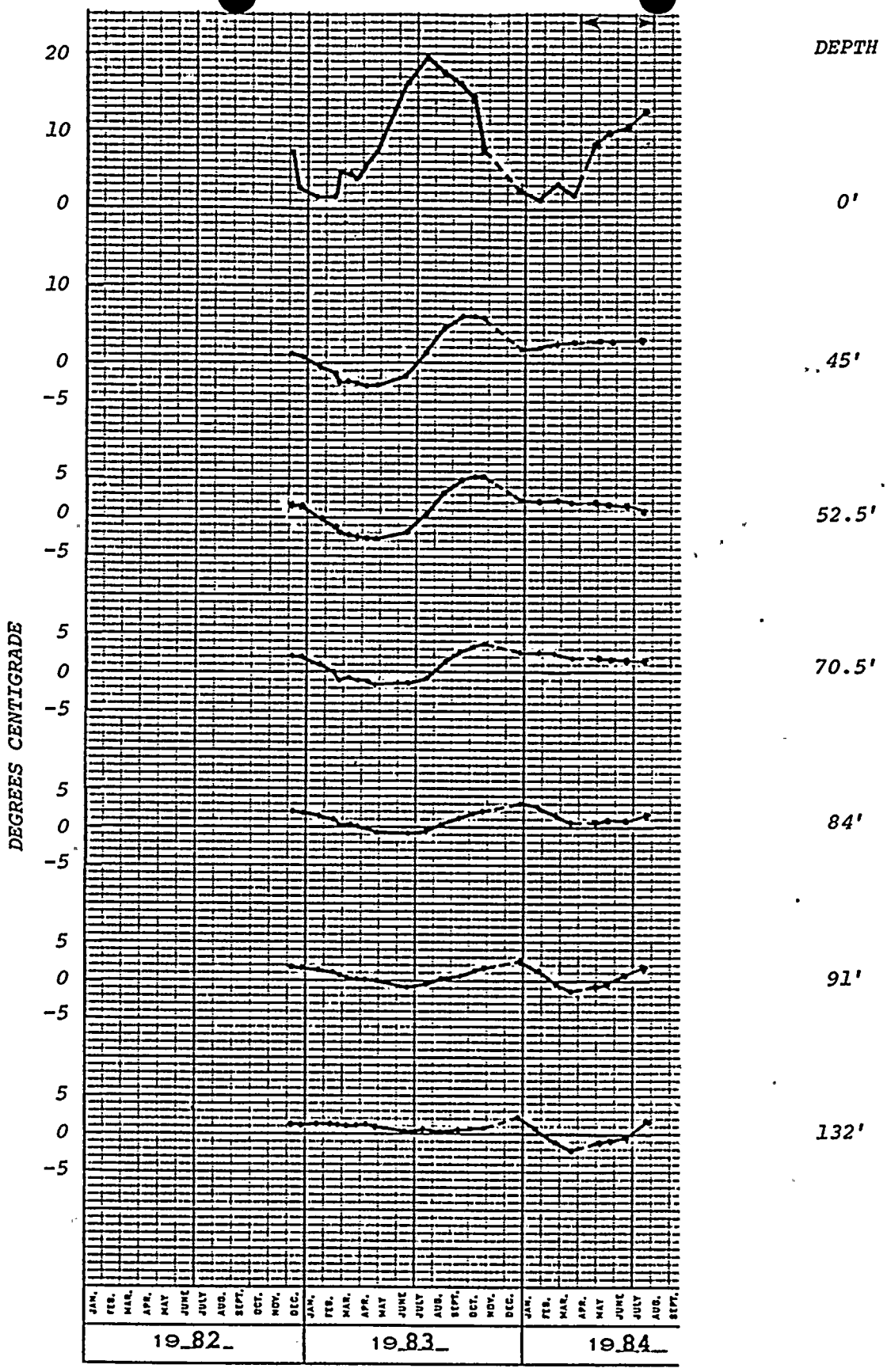



EXTENSOMETER HEX-2
DCDT'S

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 32A

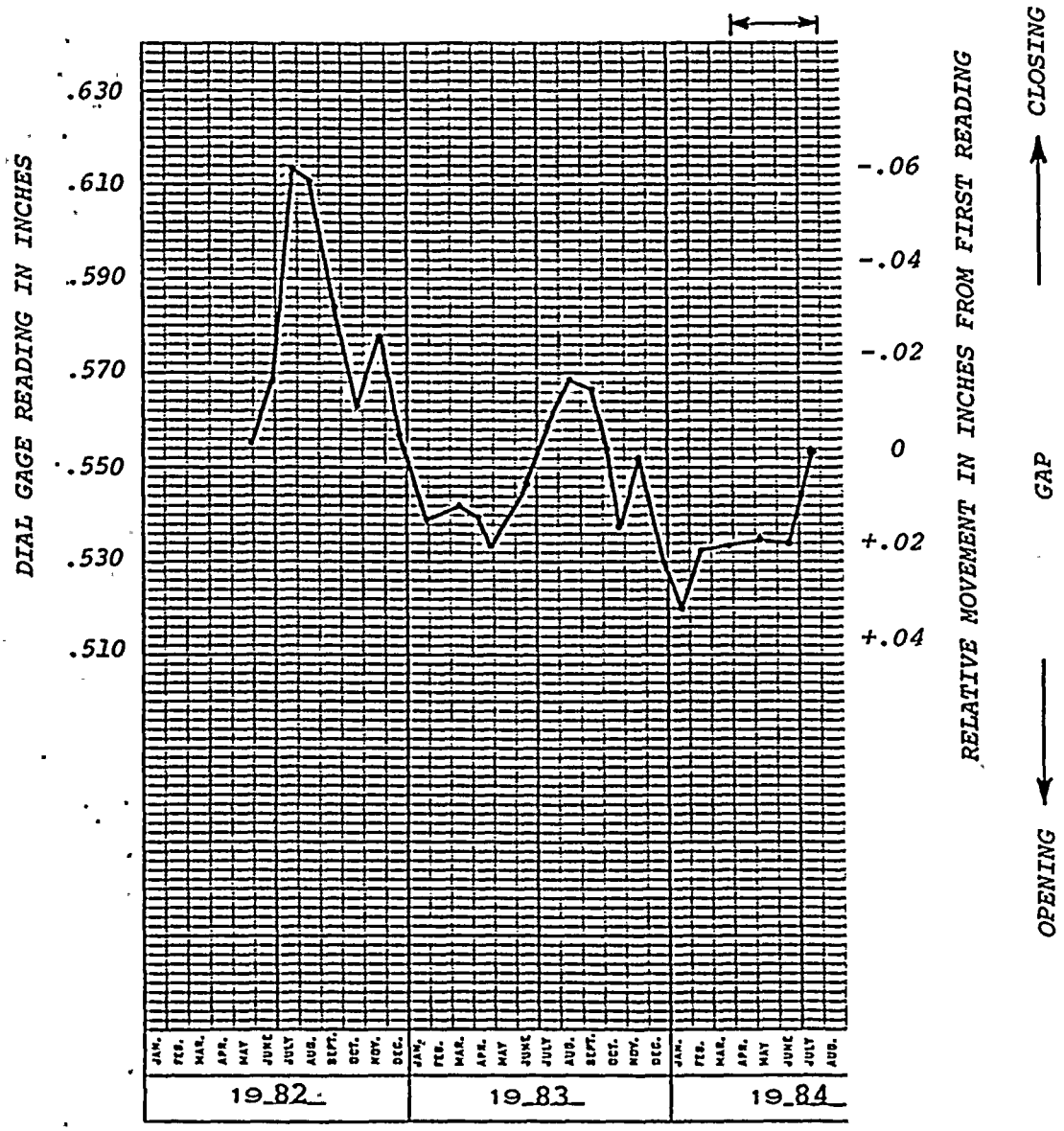



EXTENSOMETER HEX-2
THERMISTORS

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 32B

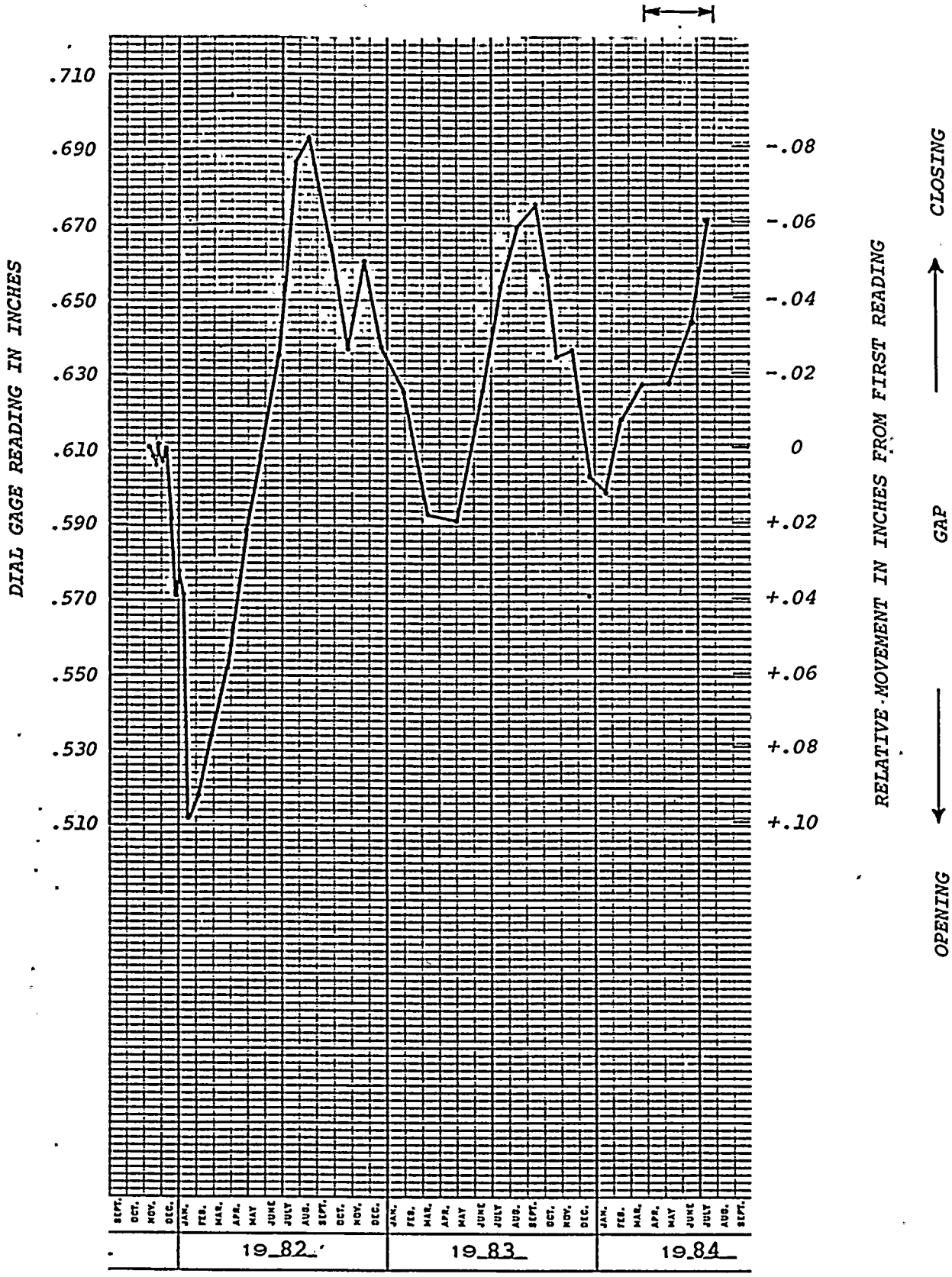



GAP GAGE G1A

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 33

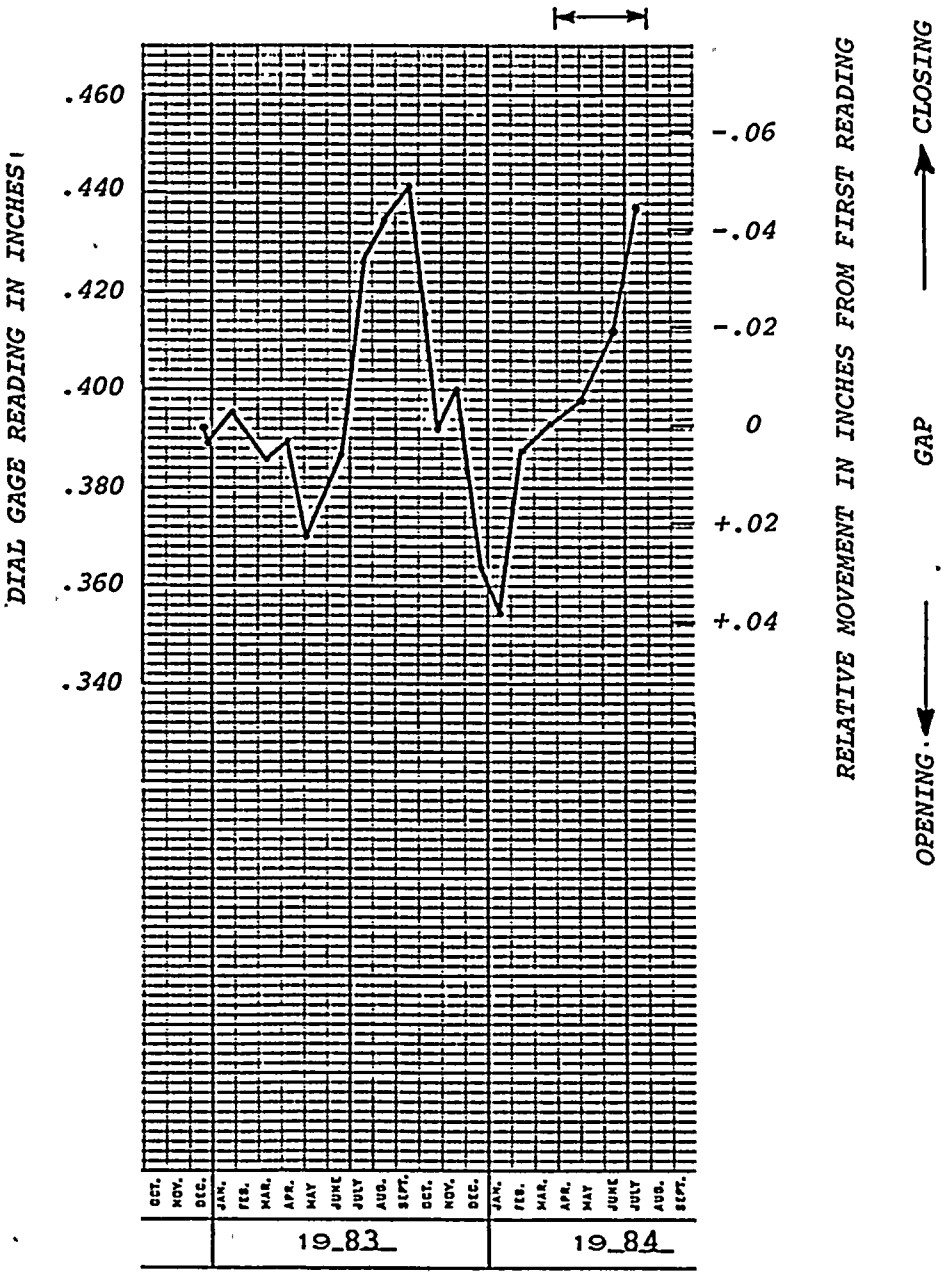



GAP GAGE G1B

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 34

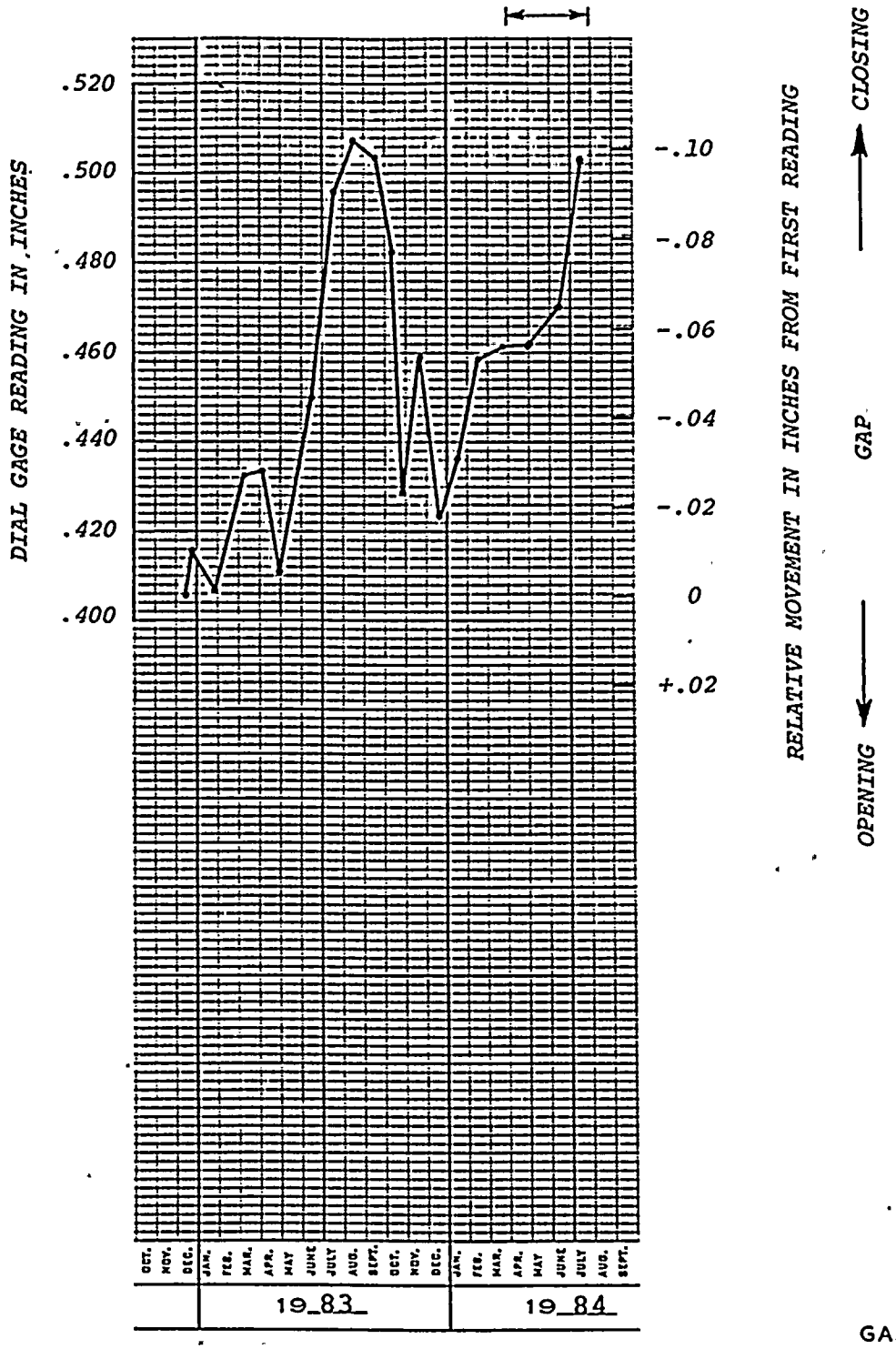



GAP GAGE G1C

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 35

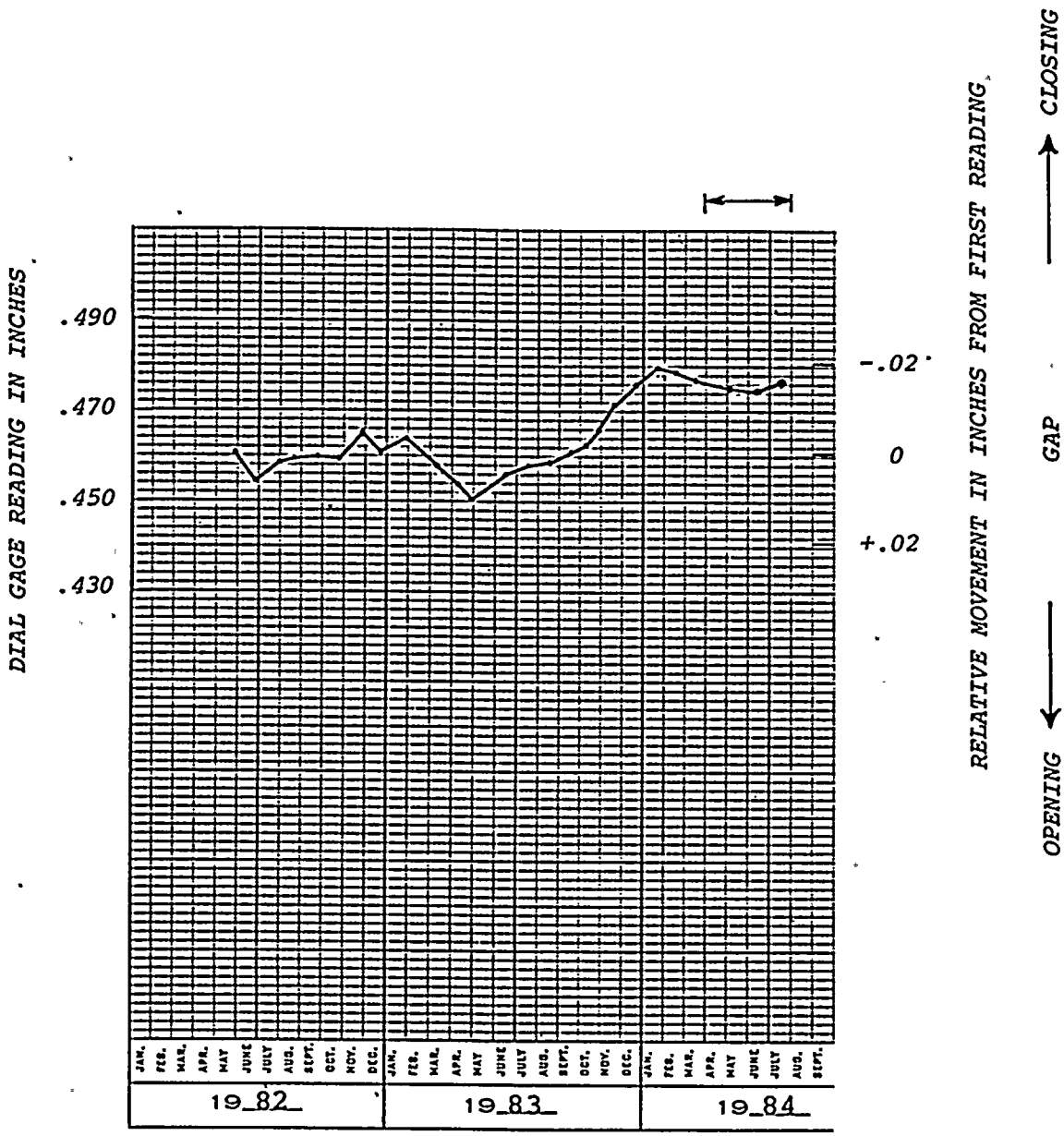



GAP, GAGE, G1D

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 36

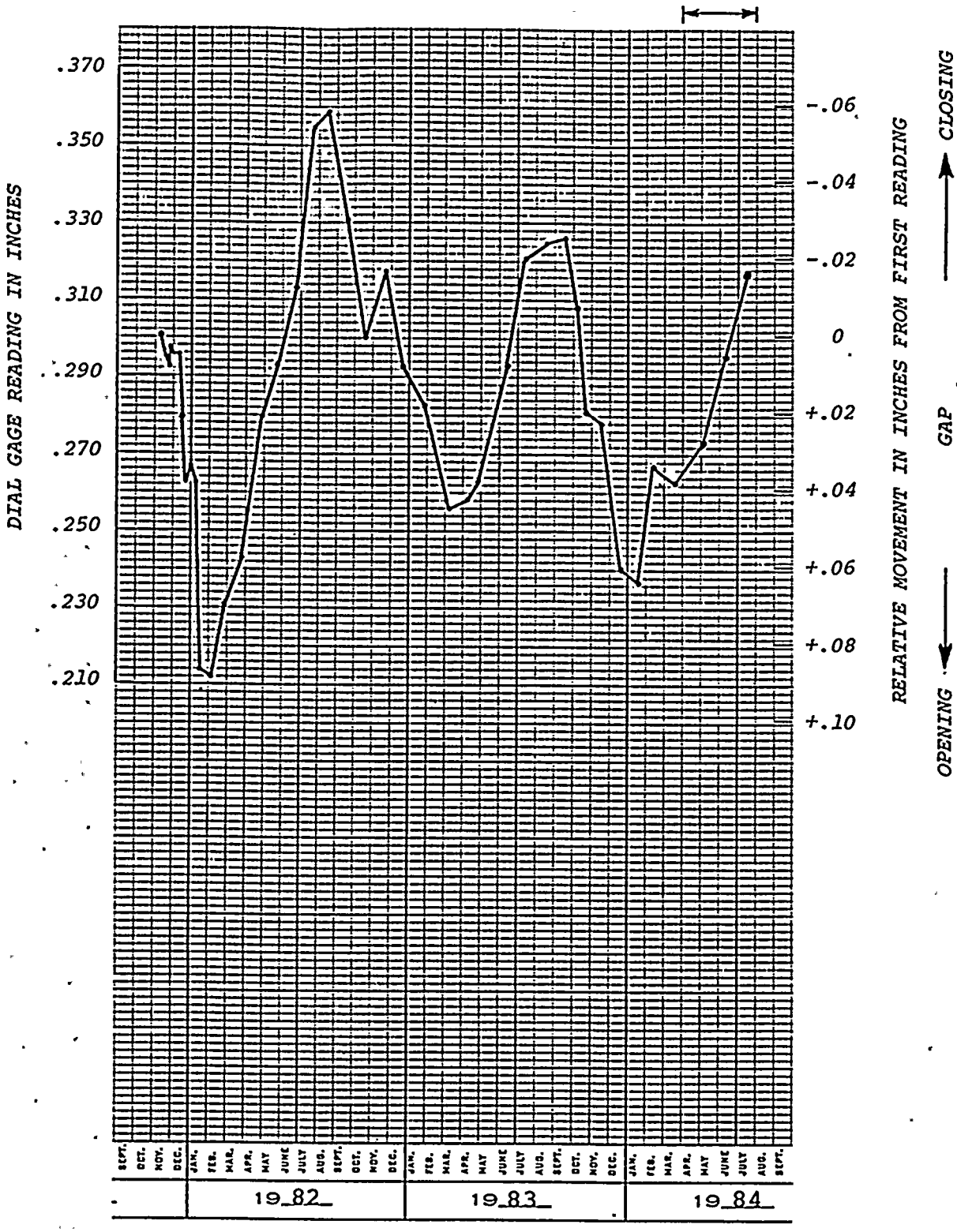



GAP GAGE G2A

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 37

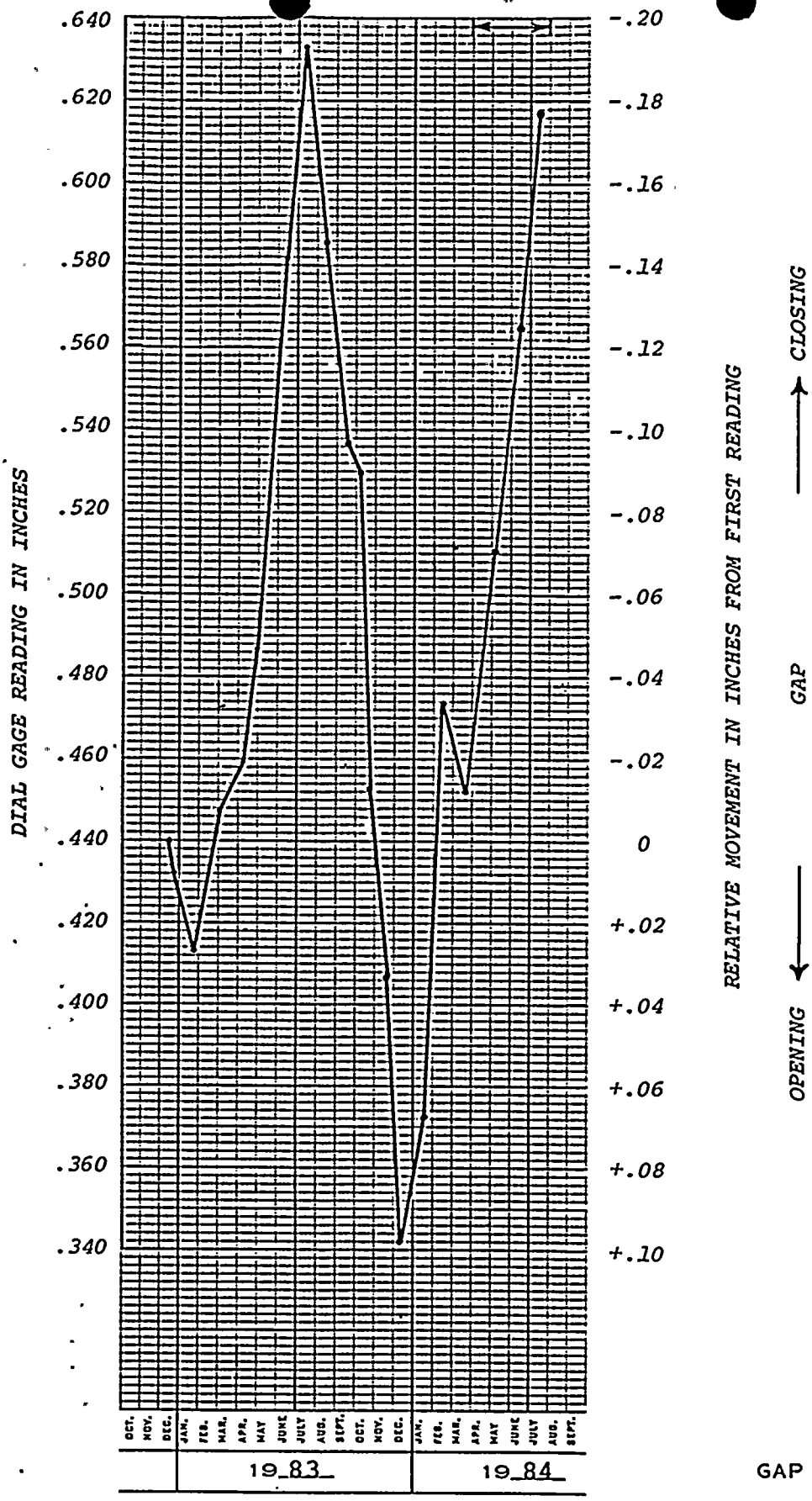



GAP, GAGE G2B

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 38

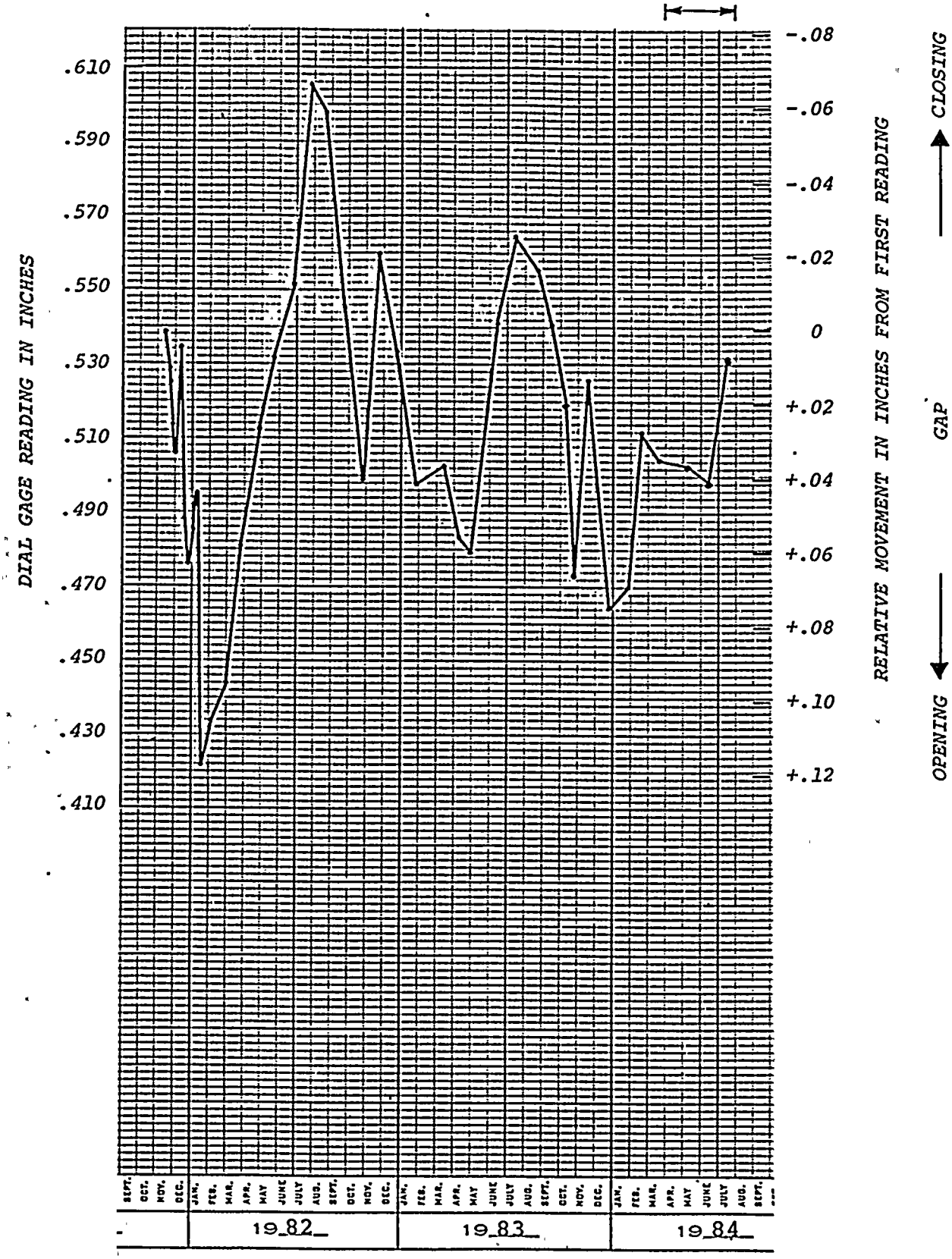



GAP GAGE G3 NORMAL

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 39

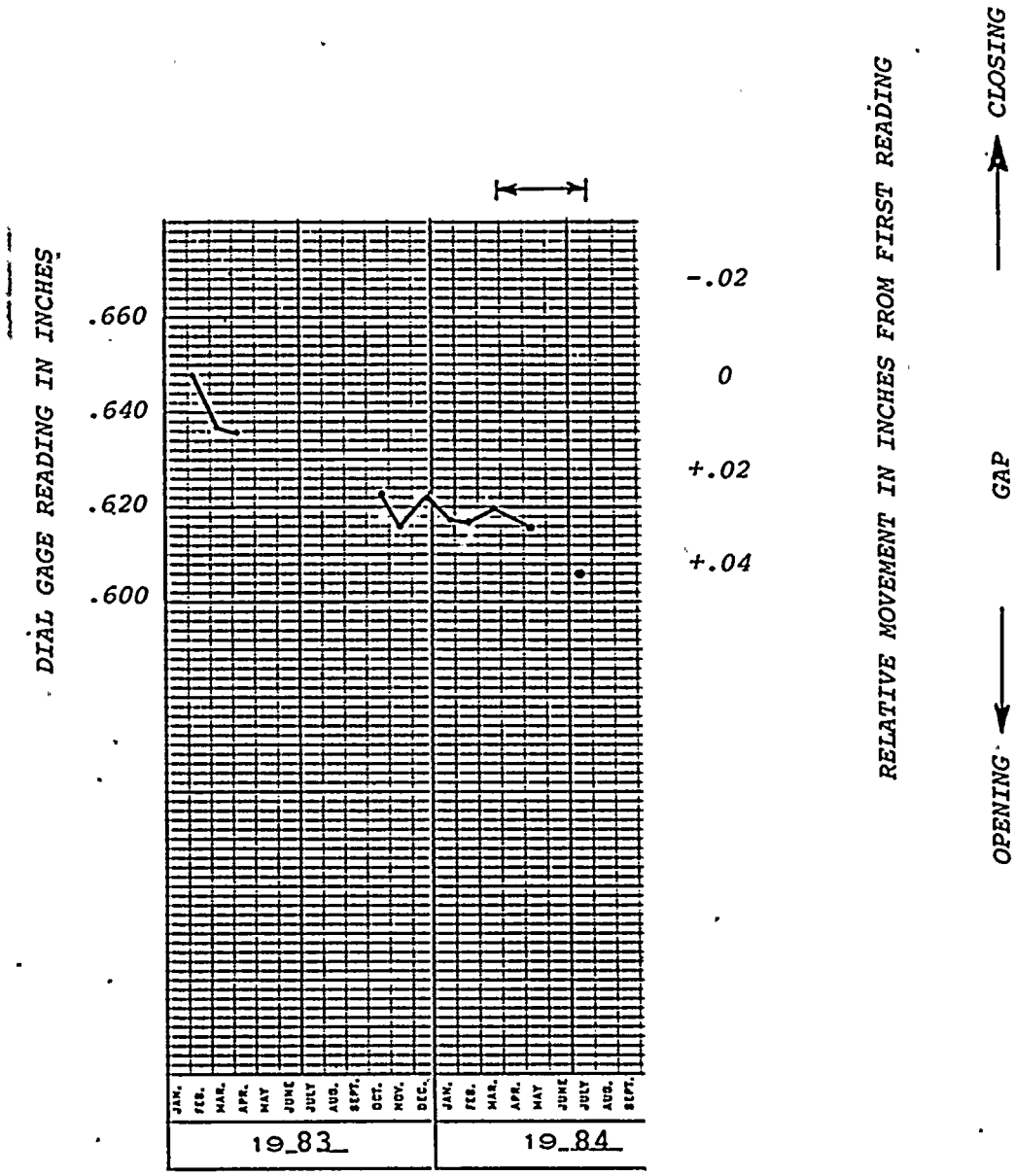



GAP GAGE G5A

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 43

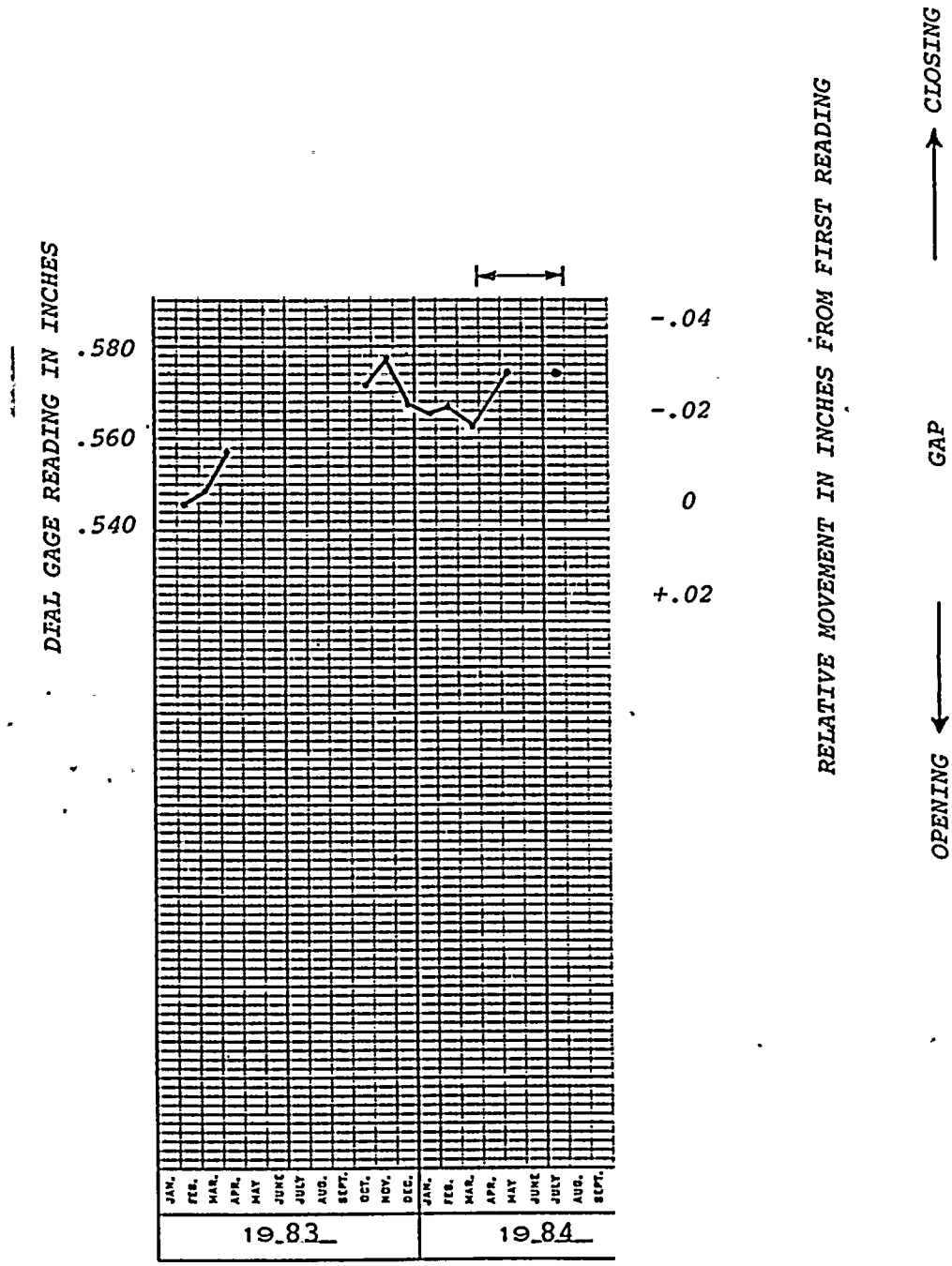



GAP GAGE G4 - SHEAR

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 42

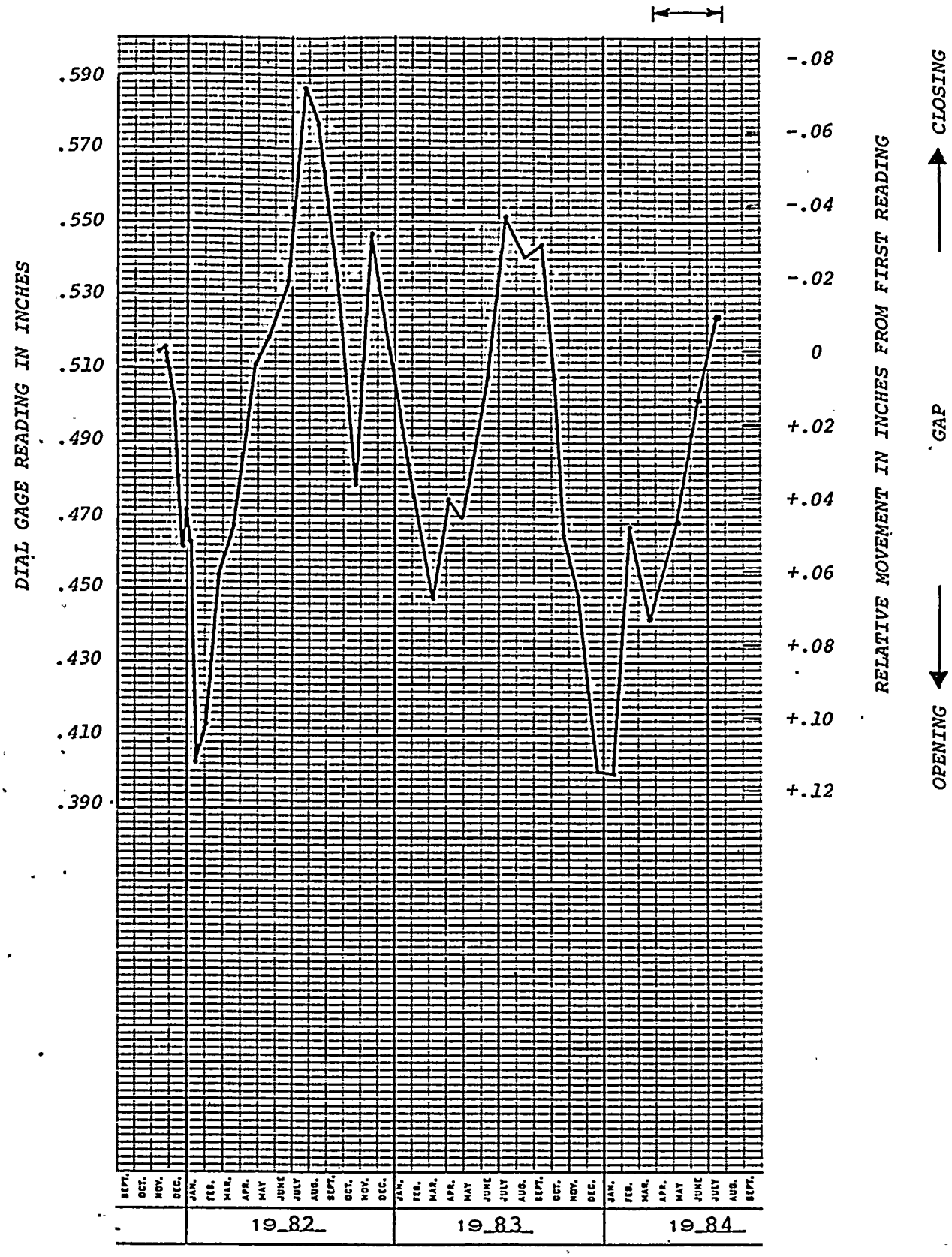



GAP GAGE G4 NORMAL,

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 41

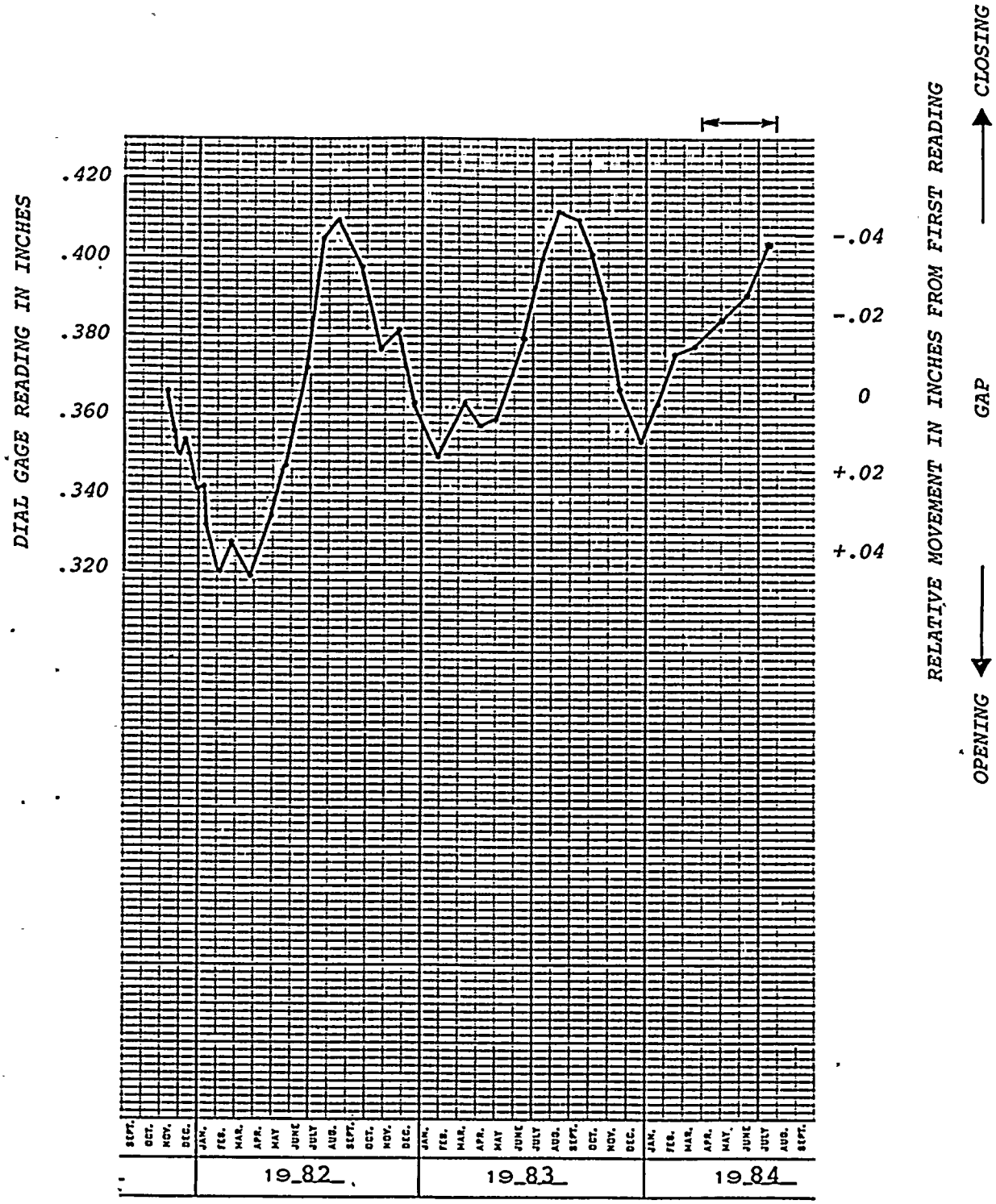



GAP GAGE G5B

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 44

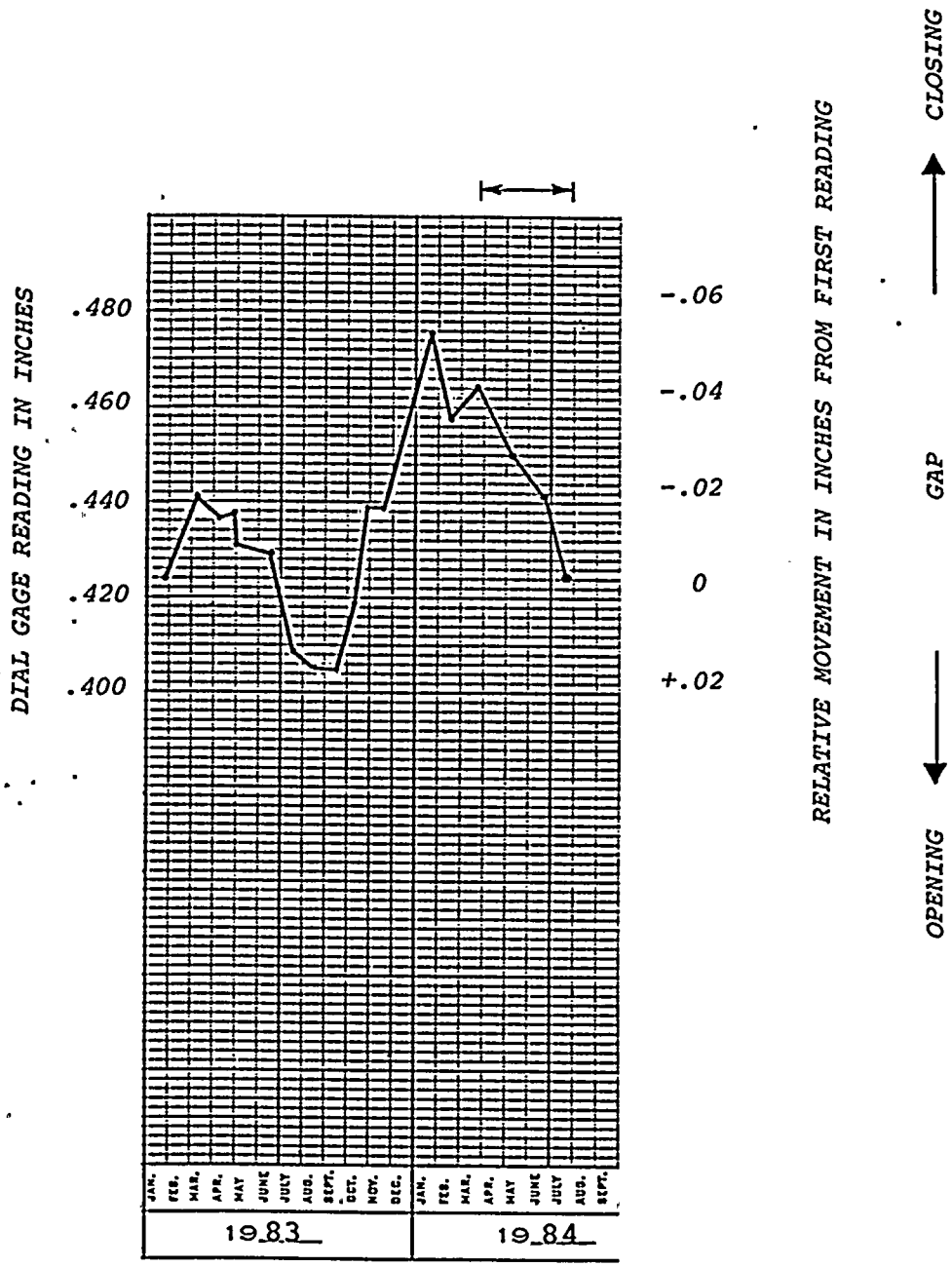



GAP GAGE G6

NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 45




GAP GAGE GV-1

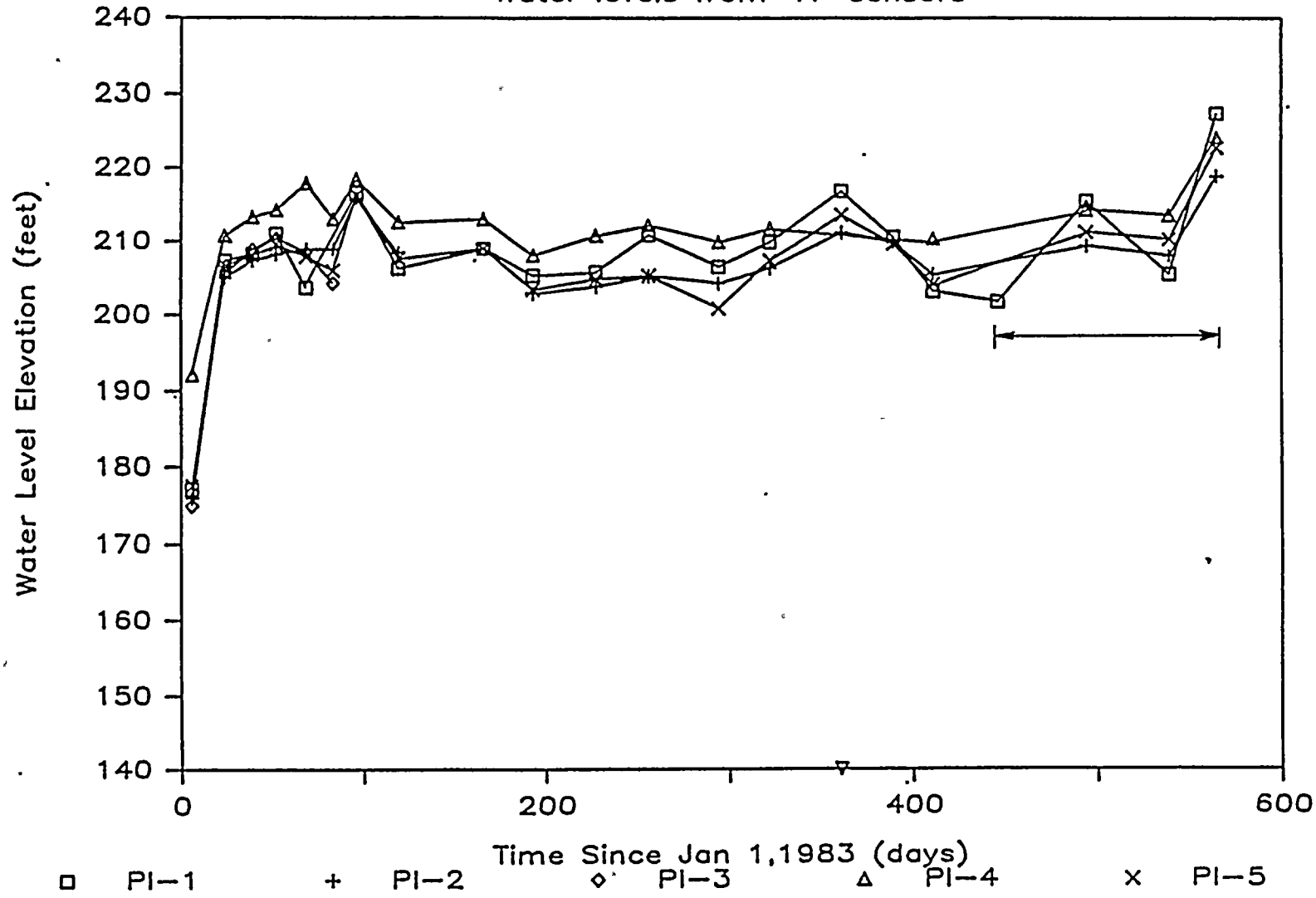
NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 46

# INTAKE SHAFT PIEZOMETERS

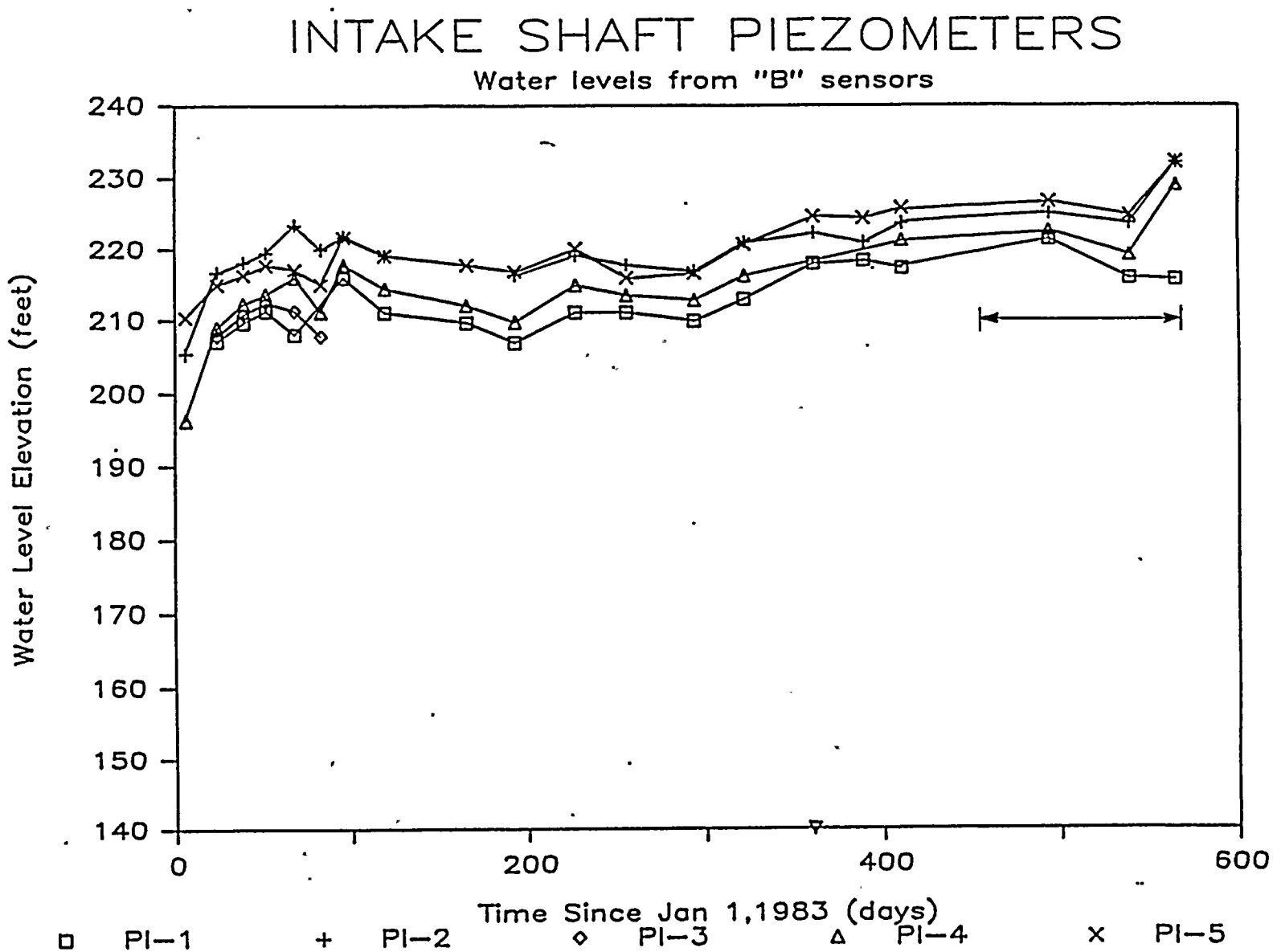
Water levels from "A" sensors




NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

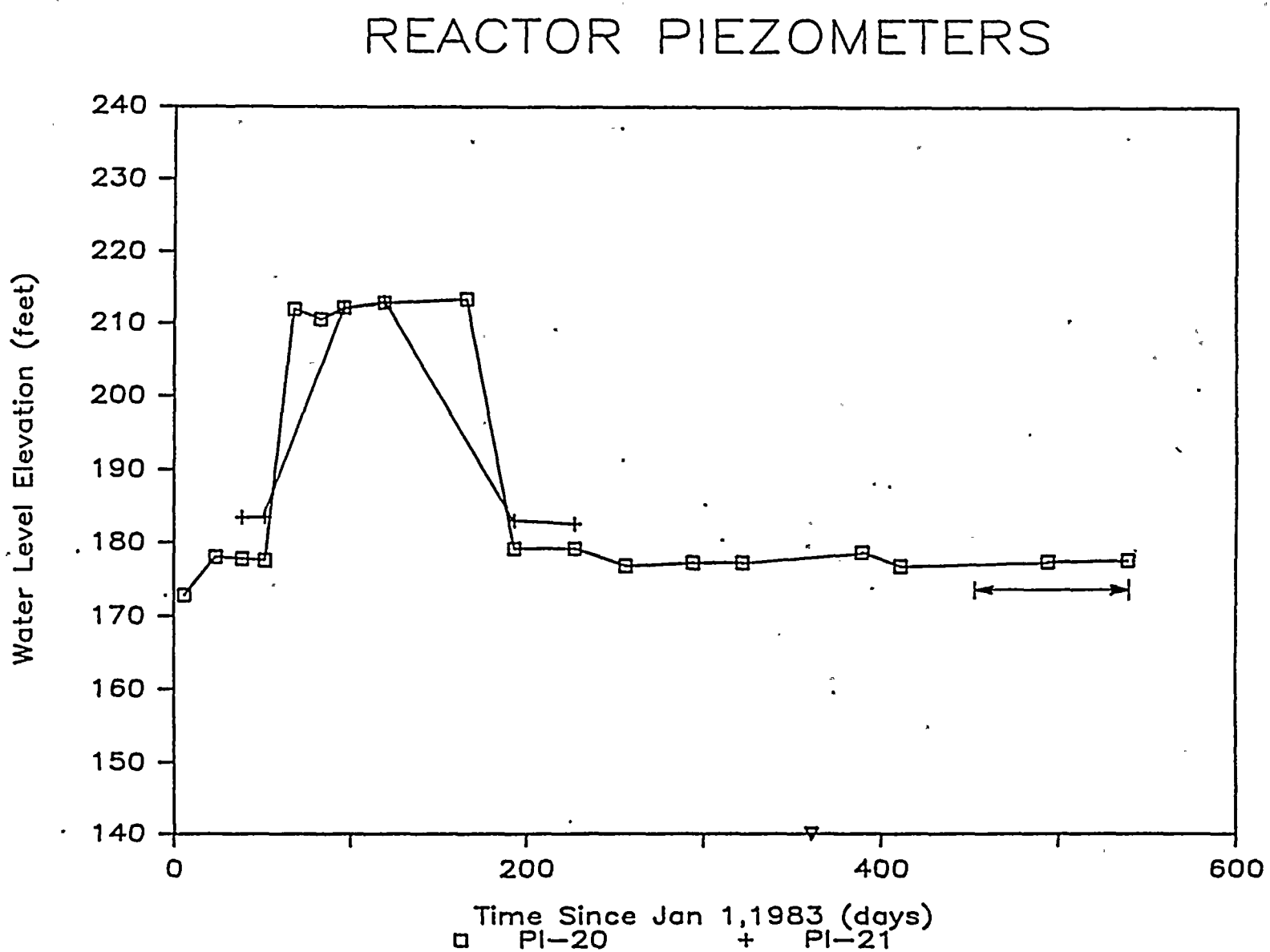
FIGURE 47




NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

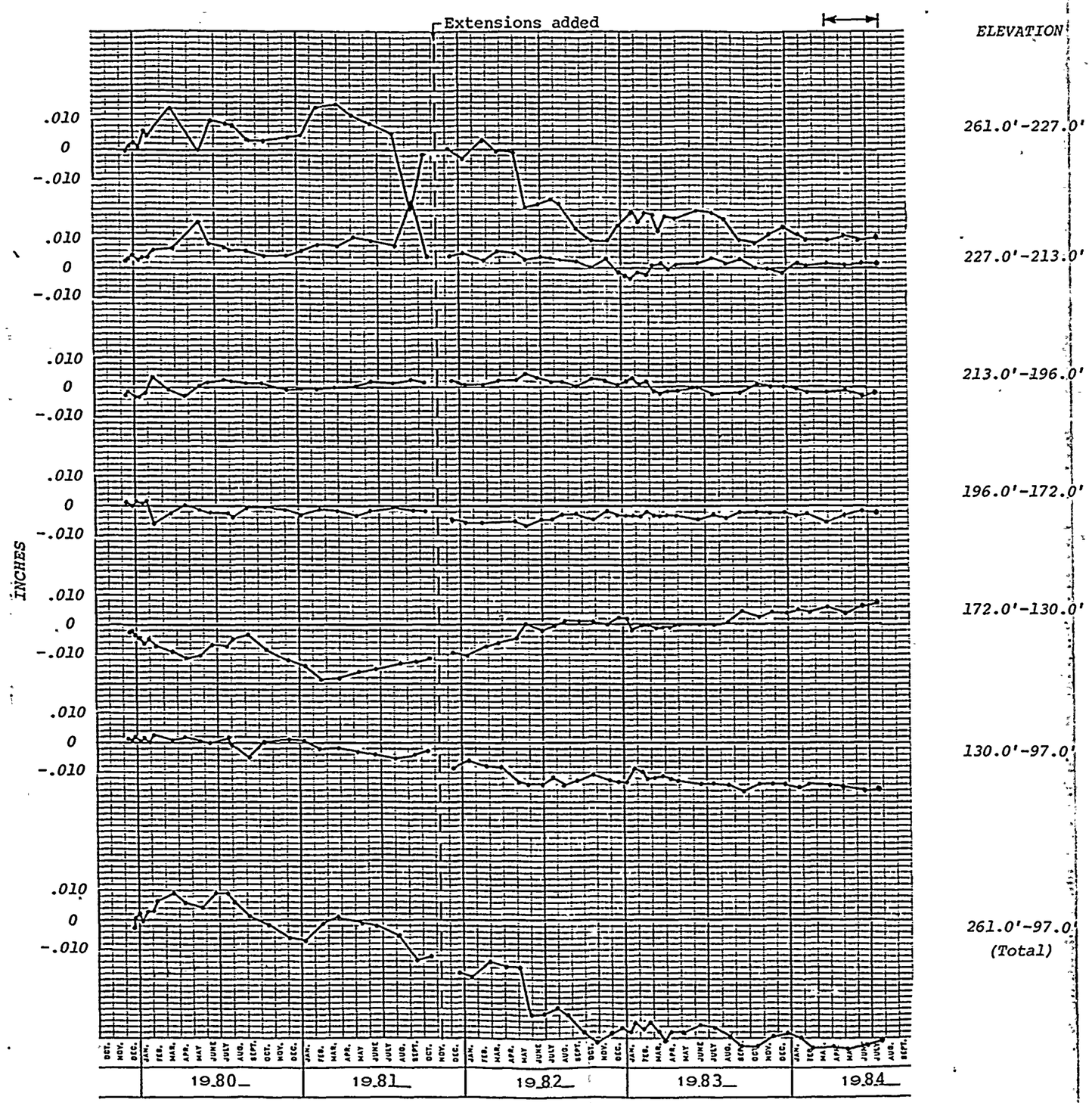
FIGURE 48




NOTE: Arrow indicates time period of data discussed in this report.

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 49




NOTE: Arrow indicates time period of data discussed in this report.





EXTENSOMETER EX-1

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

8410280018-01

FIGURE 28

NOTE: Arrow indicates time period of data discussed in this report.

TI APERTURE CARD

Also Available On Aperture Card

GAP GAGE G3 SHEAR

NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 40

8410280018-02