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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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The image shows a single page from a document, possibly a ledger or a calendar, with a grid-like structure. The text is extremely faint and mostly illegible. However, some words are visible, including 'MAY', 'JUN', 'JUL', 'AUG', 'SEP', 'OCT', 'NOV', and 'DEC', which are likely months of the year. The page appears to be a scan of a physical document, with some noise and artifacts visible.

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. Mangano

C. V. Mangano
Vice President

Nuclear Engineering & Licensing

DS:ja
Attachment
xc: Project File (2)

R. Gramm, NRC Resident Inspector

8410240018 841018
PDR ADDCK 05000410
R PDR

3001
11

1. The first part of the report
describes the general situation
of the country and the
main features of the
economy.

2. The second part of the report
describes the main features of the
economy.

3. The third part of the report
describes the main features of the
economy.

4. The fourth part of the report
describes the main features of the
economy.

5. The fifth part of the report
describes the main features of the
economy.

6. The sixth part of the report
describes the main features of the
economy.

7. The seventh part of the report
describes the main features of the
economy.

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 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

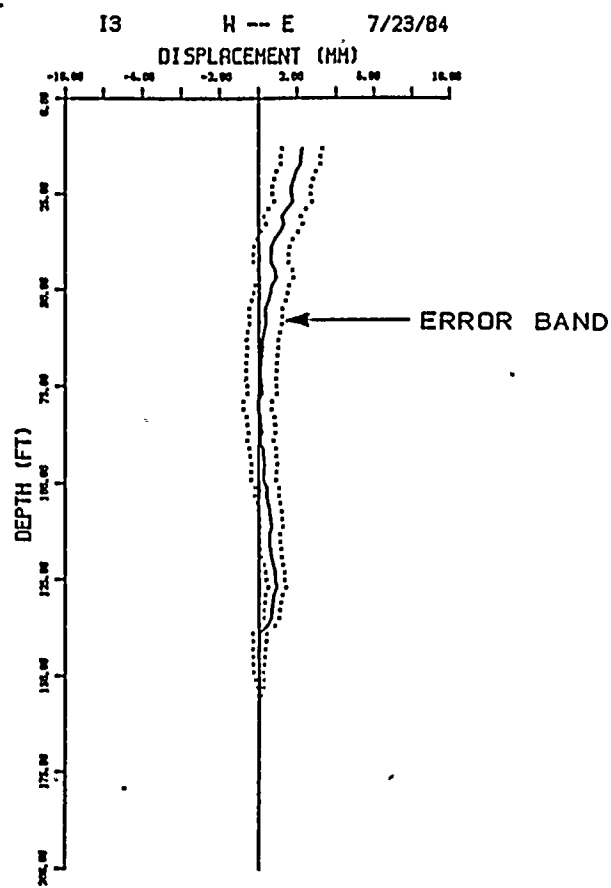
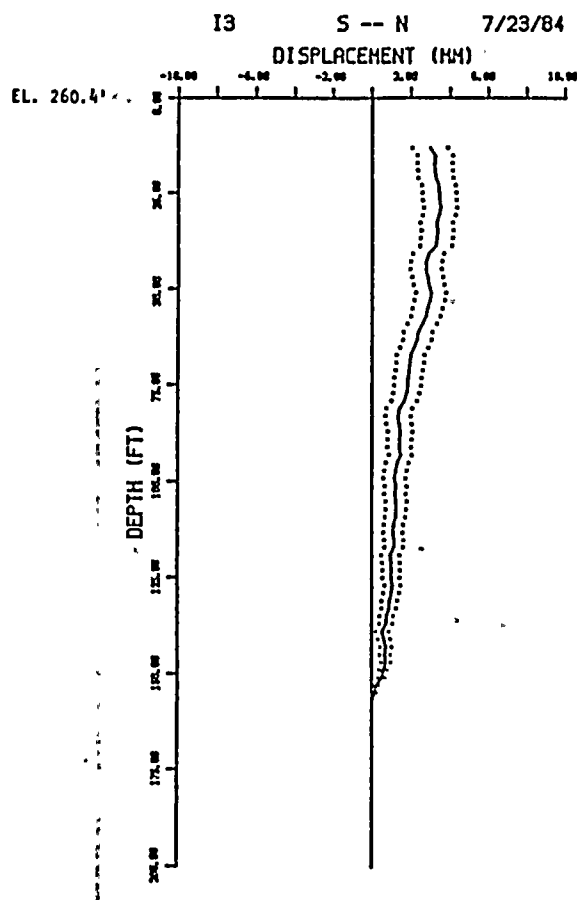
Subscribed and sworn to before me, a Notary Public in and for the State of New York and County of Onondaga, this 18th day of October 1984.

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

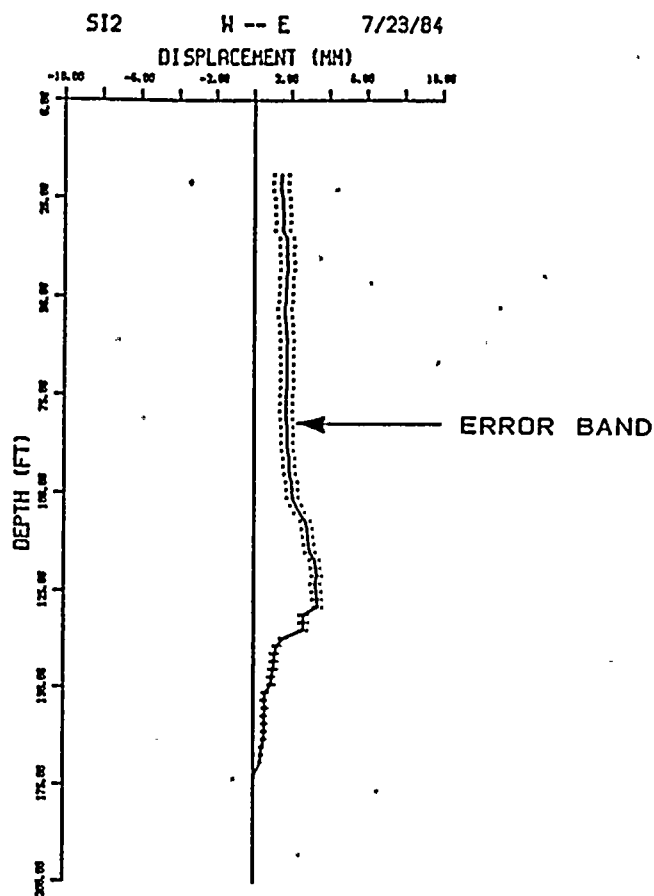
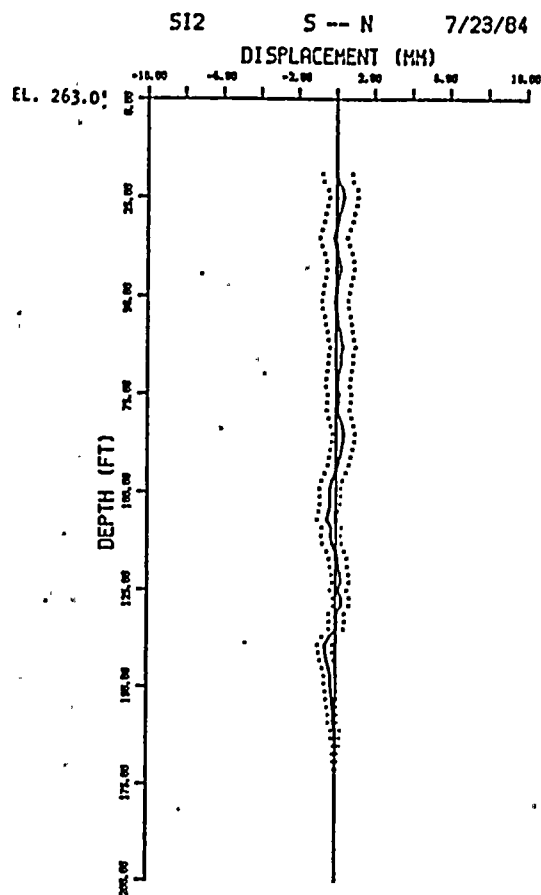
My Commission Expires March 30, 1971
Christine Austin
New York Police Department
New York, New York 10014



INCLINOMETER I-3
DISPLACEMENT VS. DEPTH PLOTS

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

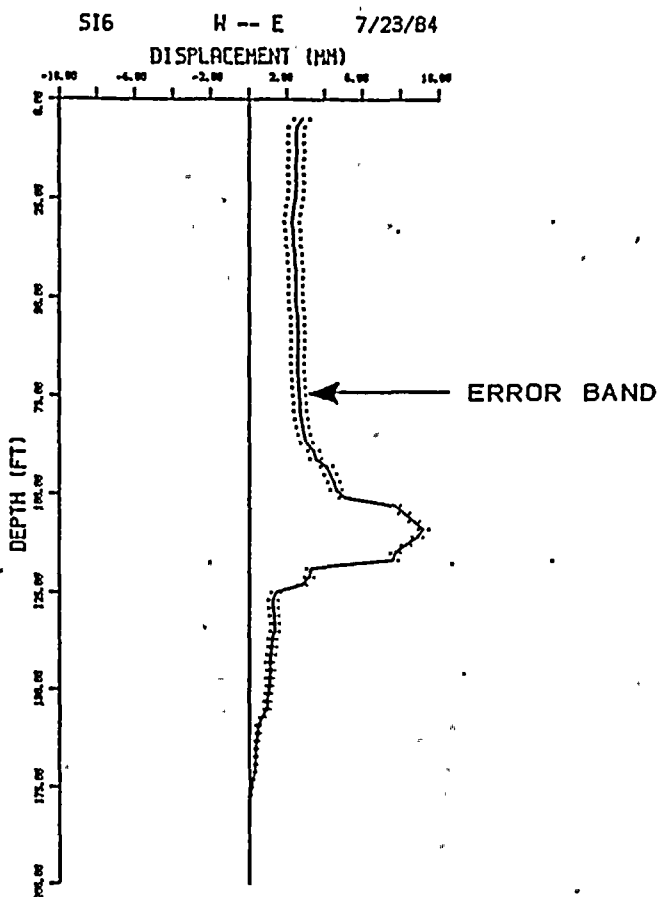
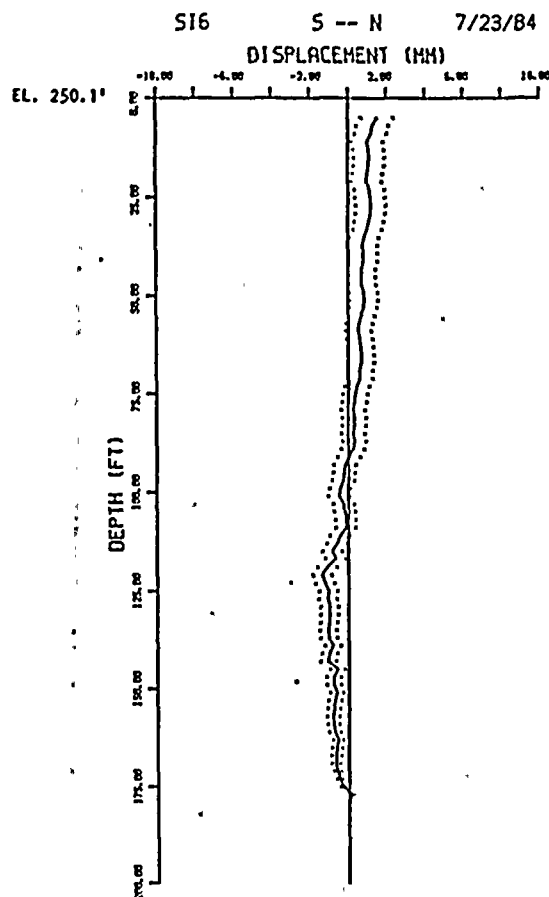
FIGURE 1



INCLINOMETER SI-2
DISPLACEMENT VS. DEPTH PLOTS

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

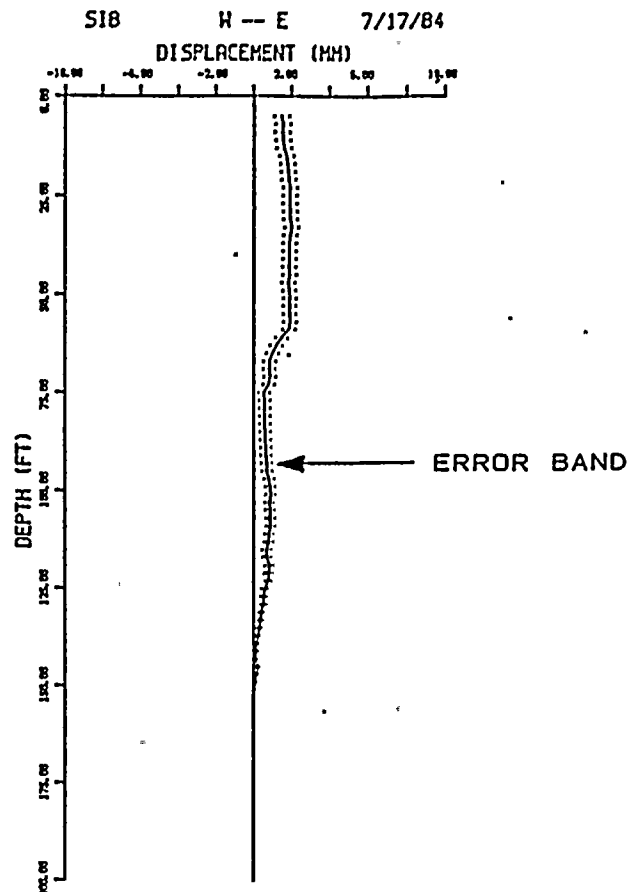
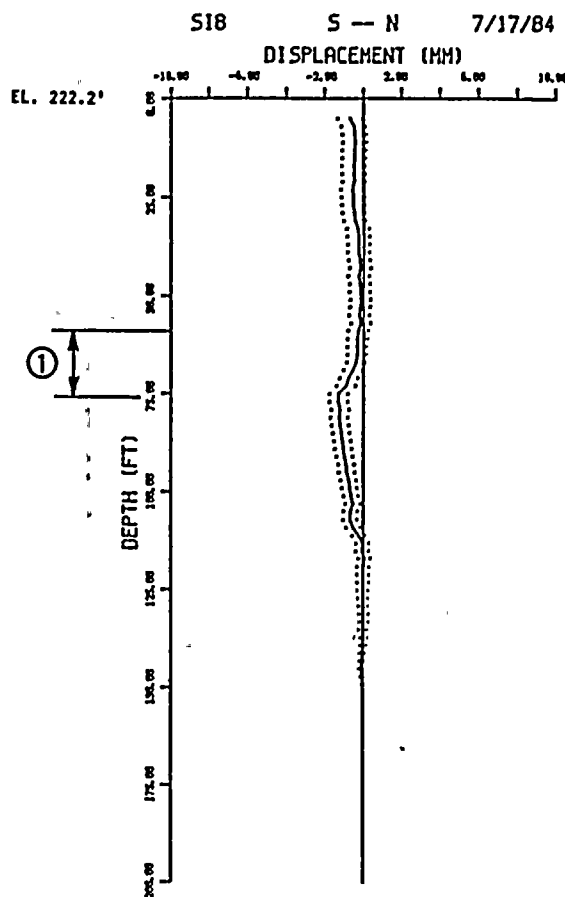
FIGURE 2



INCLINOMETER SI-6
DISPLACEMENT VS. DEPTH PLOTS

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

FIGURE 3



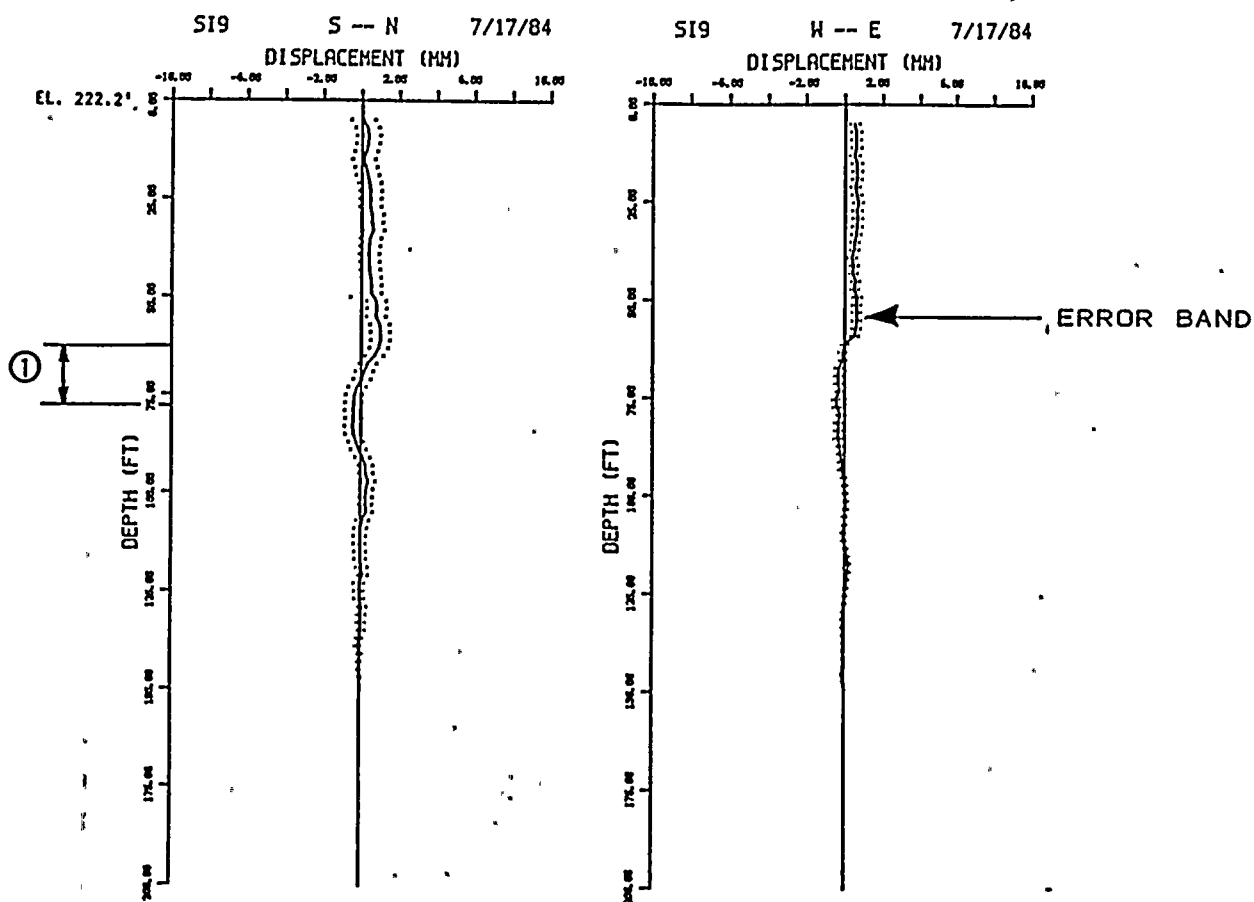
NOTE:

- 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



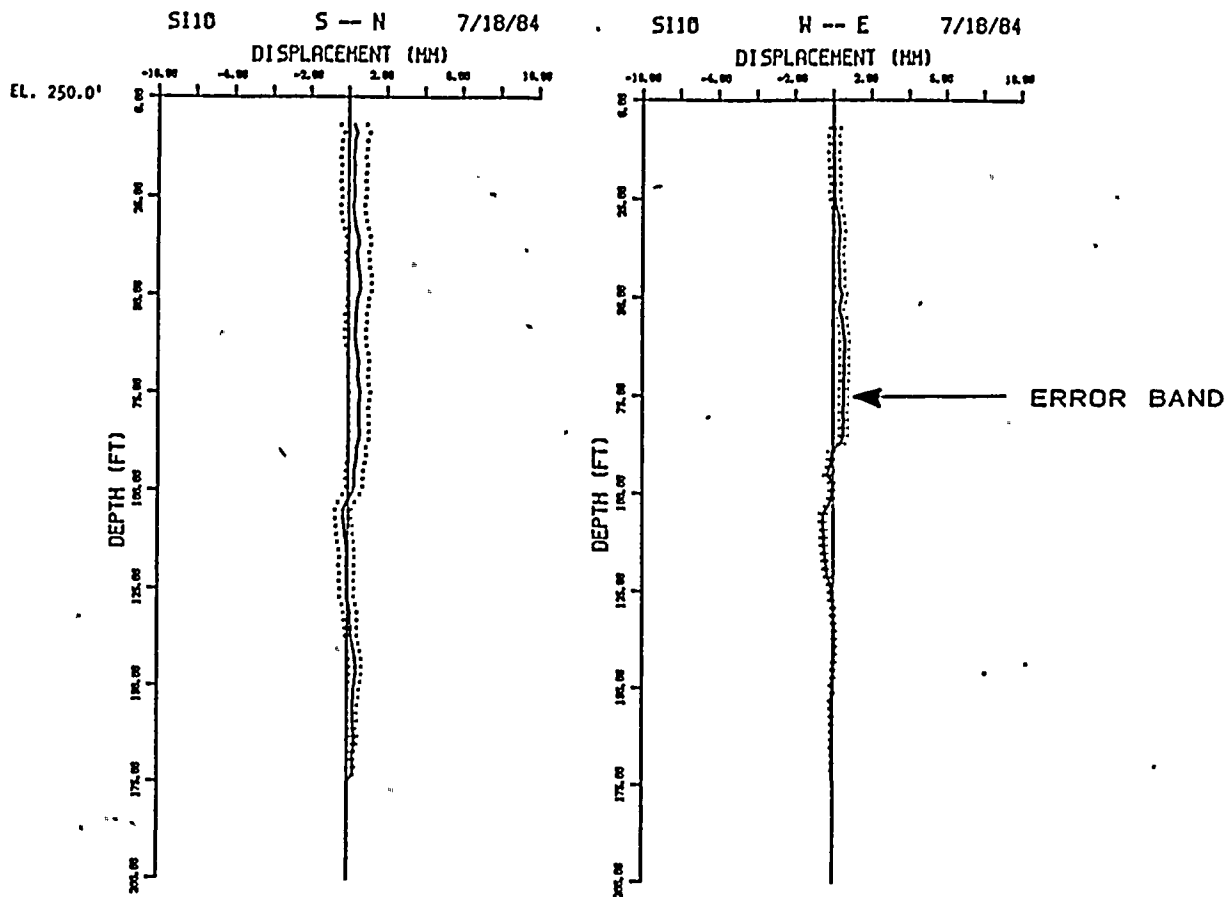
NOTE:

- 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.

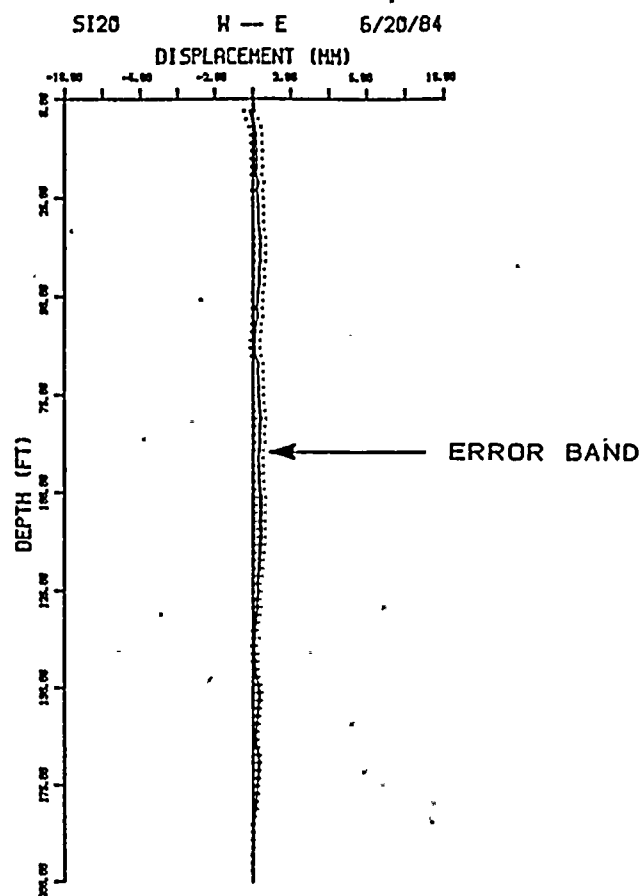
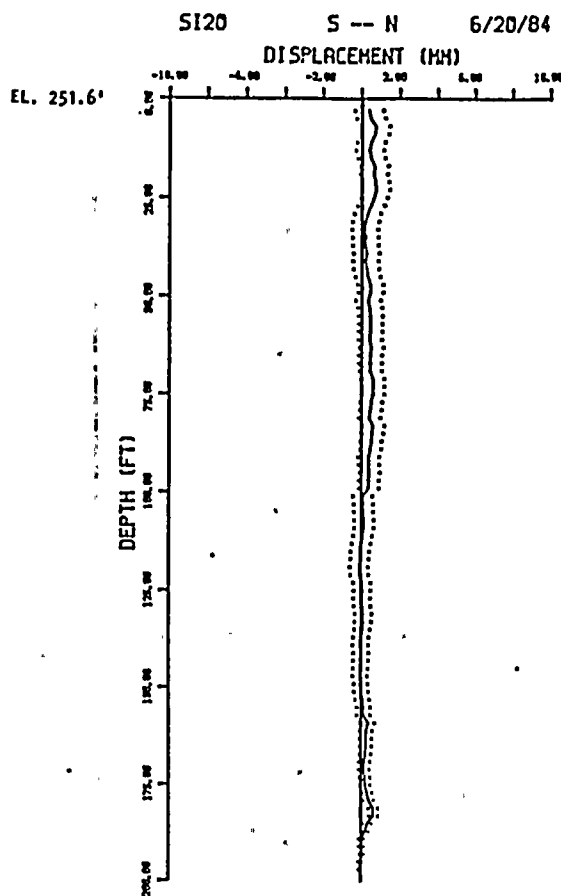
FIGURE 5



INCLINOMETER SI-10
DISPLACEMENT VS. DEPTH PLOTS

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

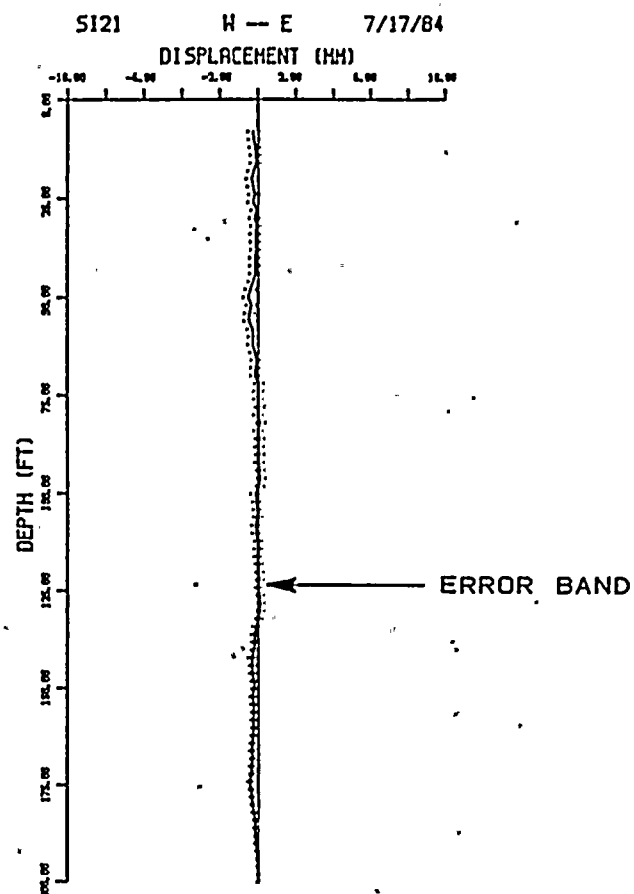
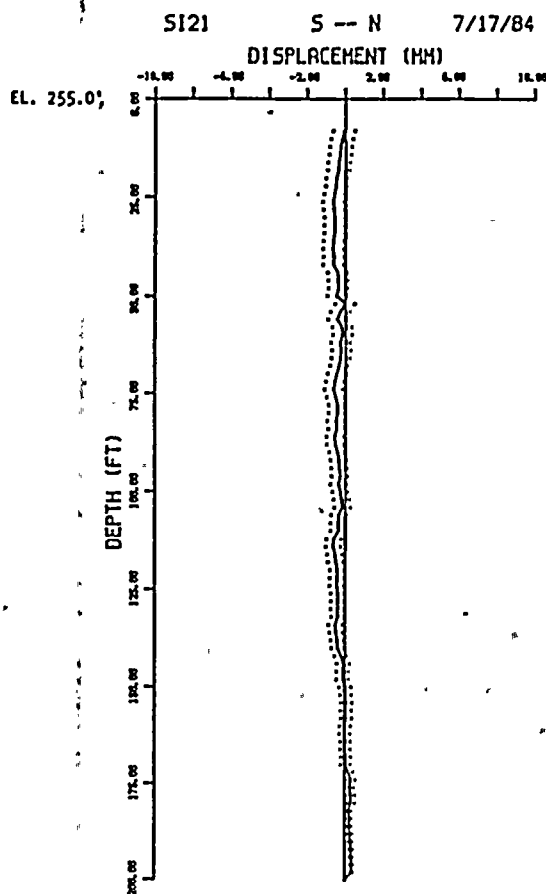
FIGURE 6



INCLINOMETER SI-20
DISPLACEMENT VS. DEPTH PLOTS

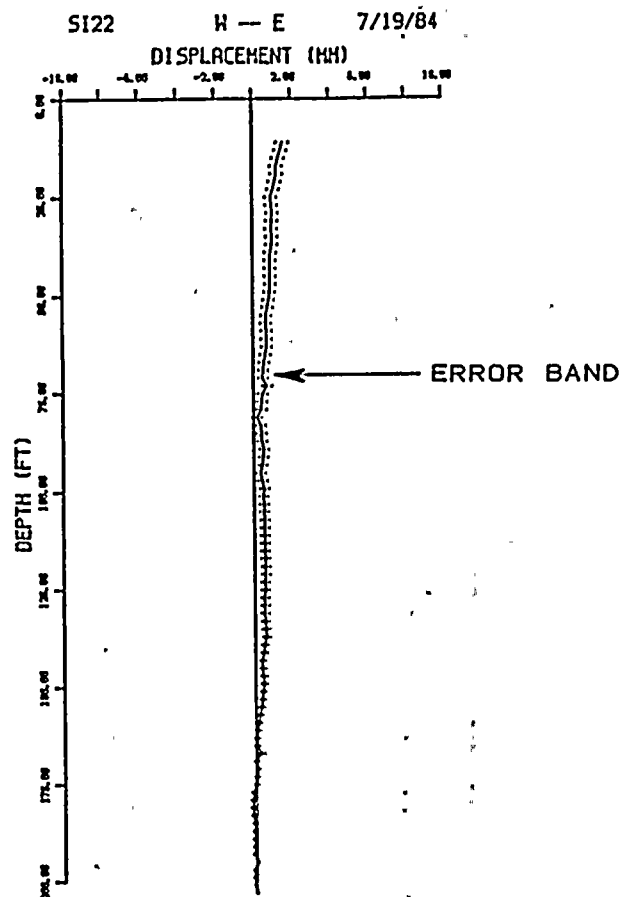
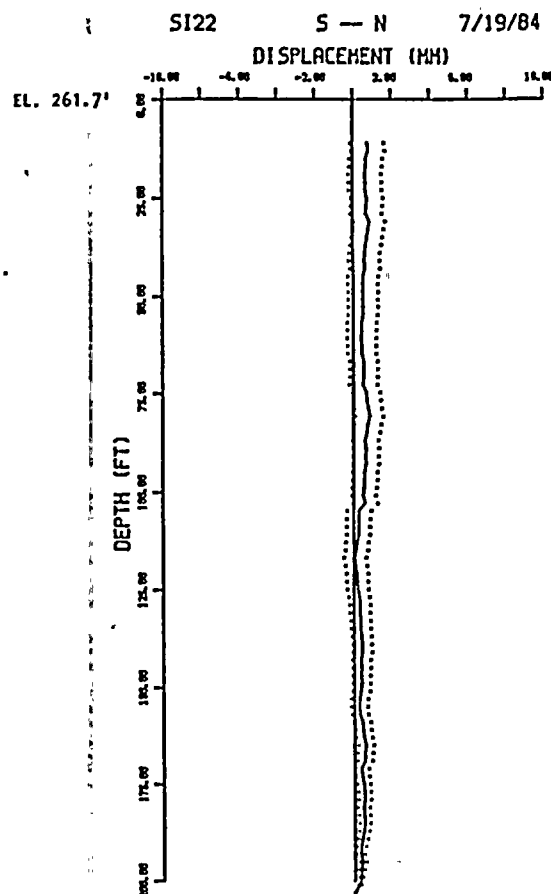
NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

FIGURE 7



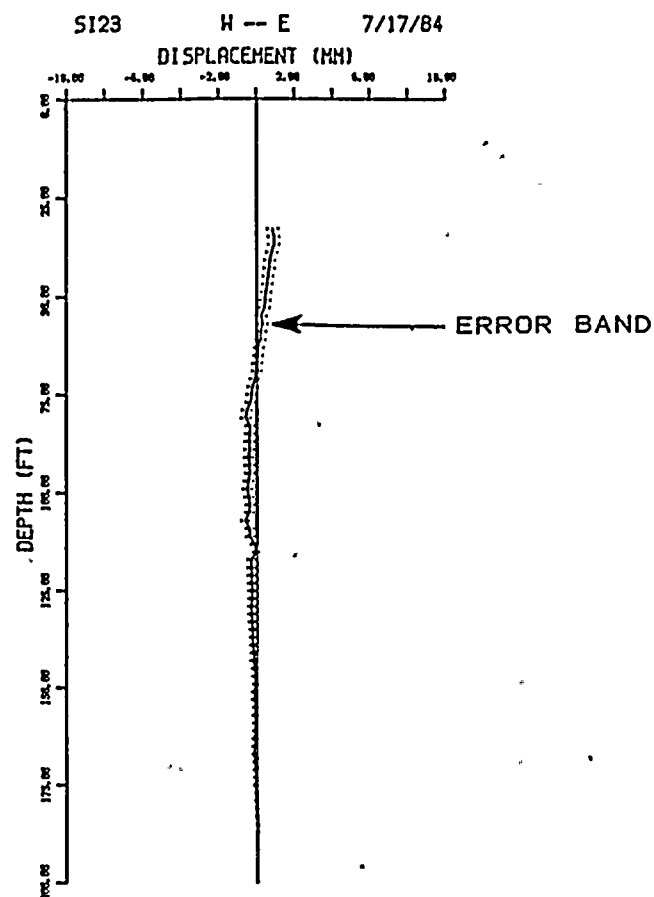
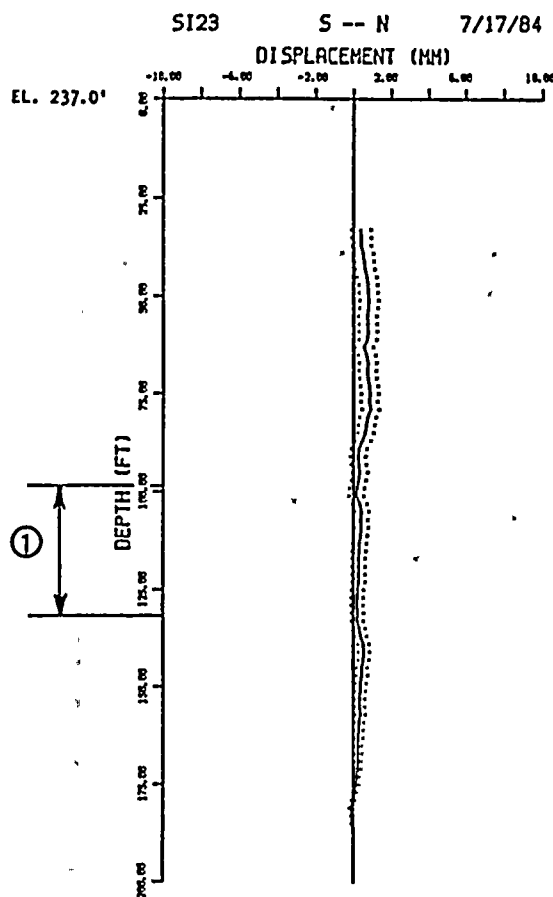
INCLINOMETER SI-21
DISPLACEMENT VS. DEPTH PLOTS

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



INCLINOMETER SI-22
DISPLACEMENT VS. DEPTH PLOTS

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



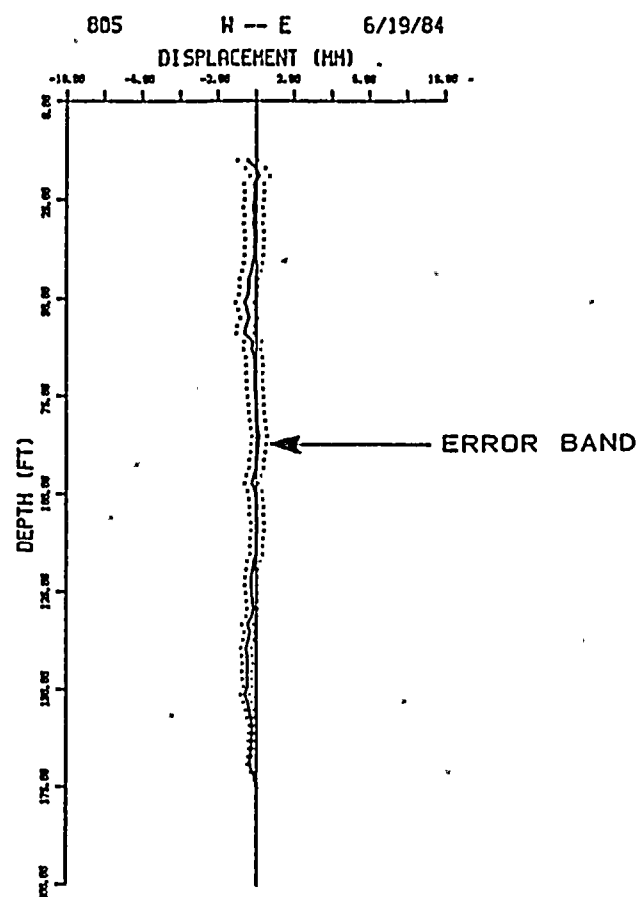
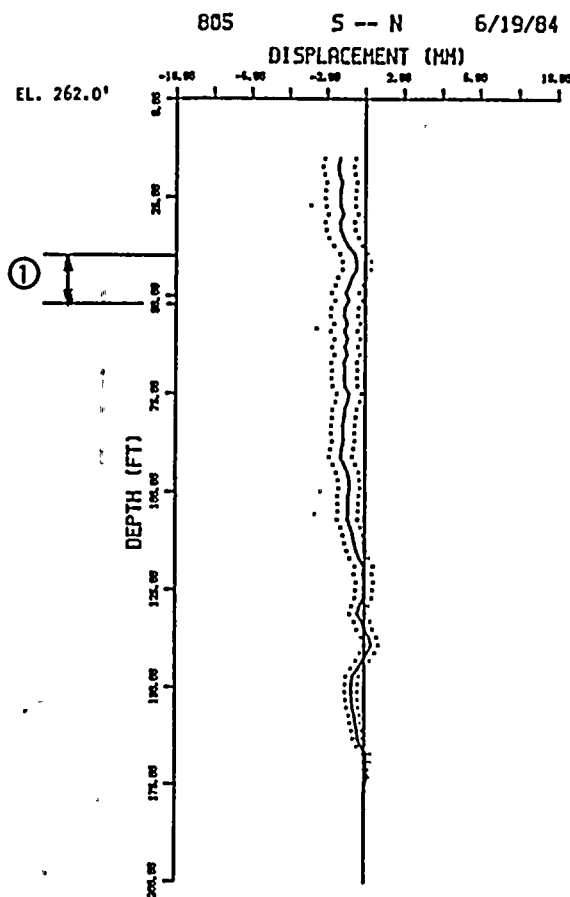
NOTE:

- 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

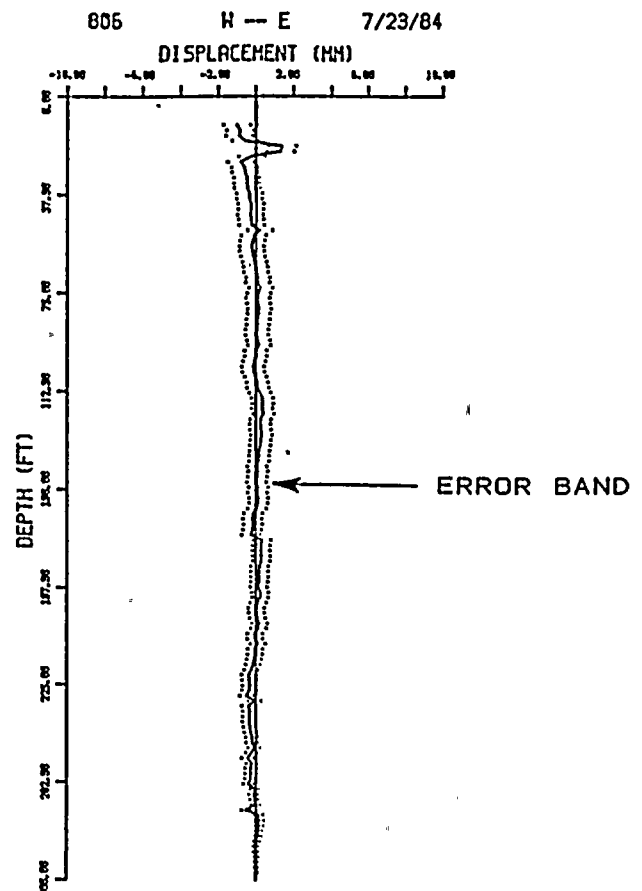
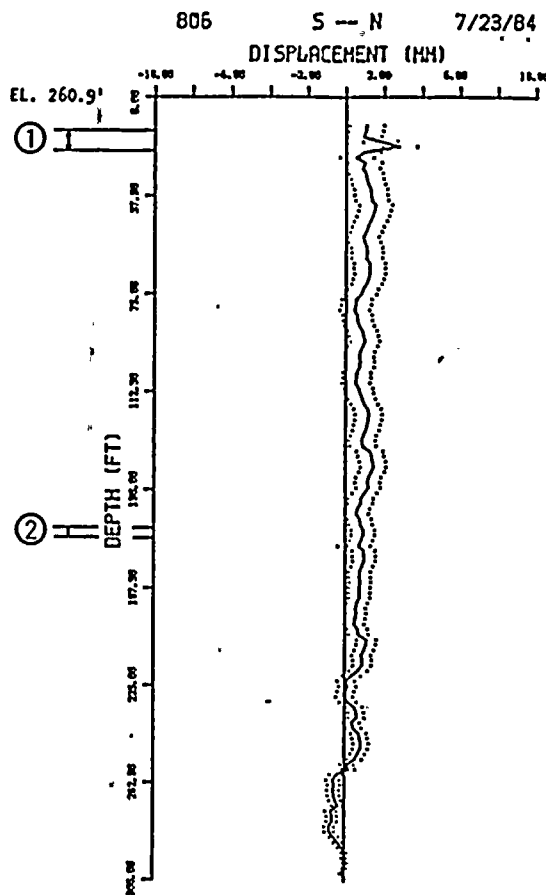


NOTE:

- 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.

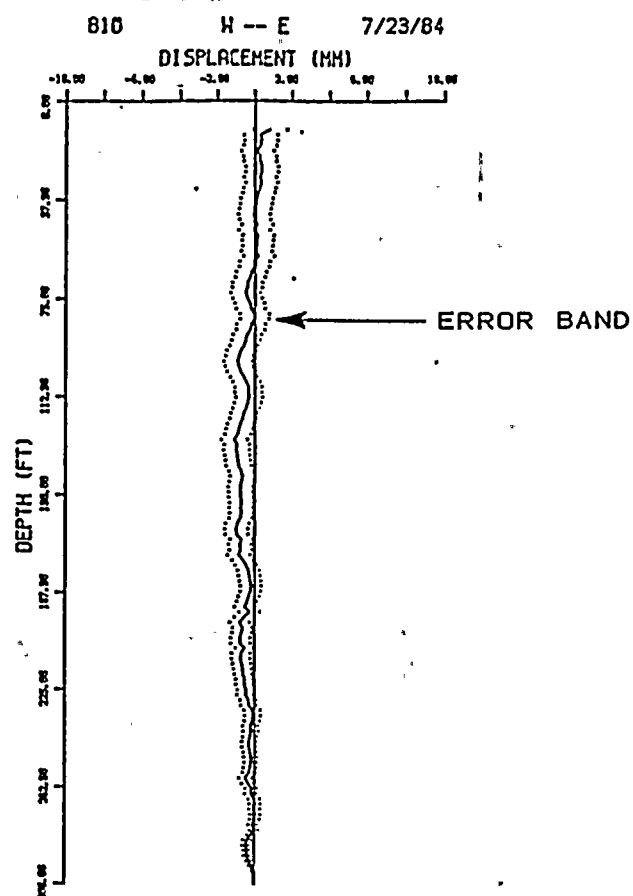
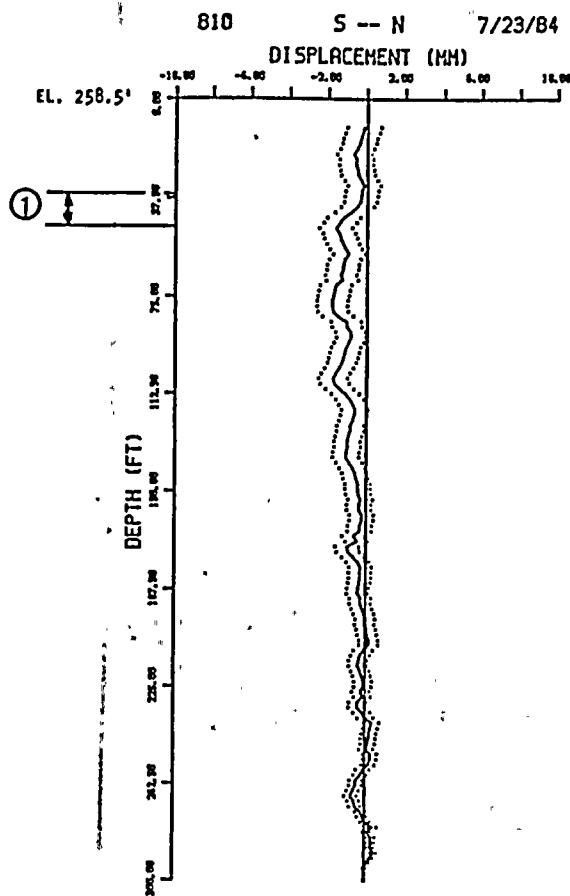


NOTE:

- 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.

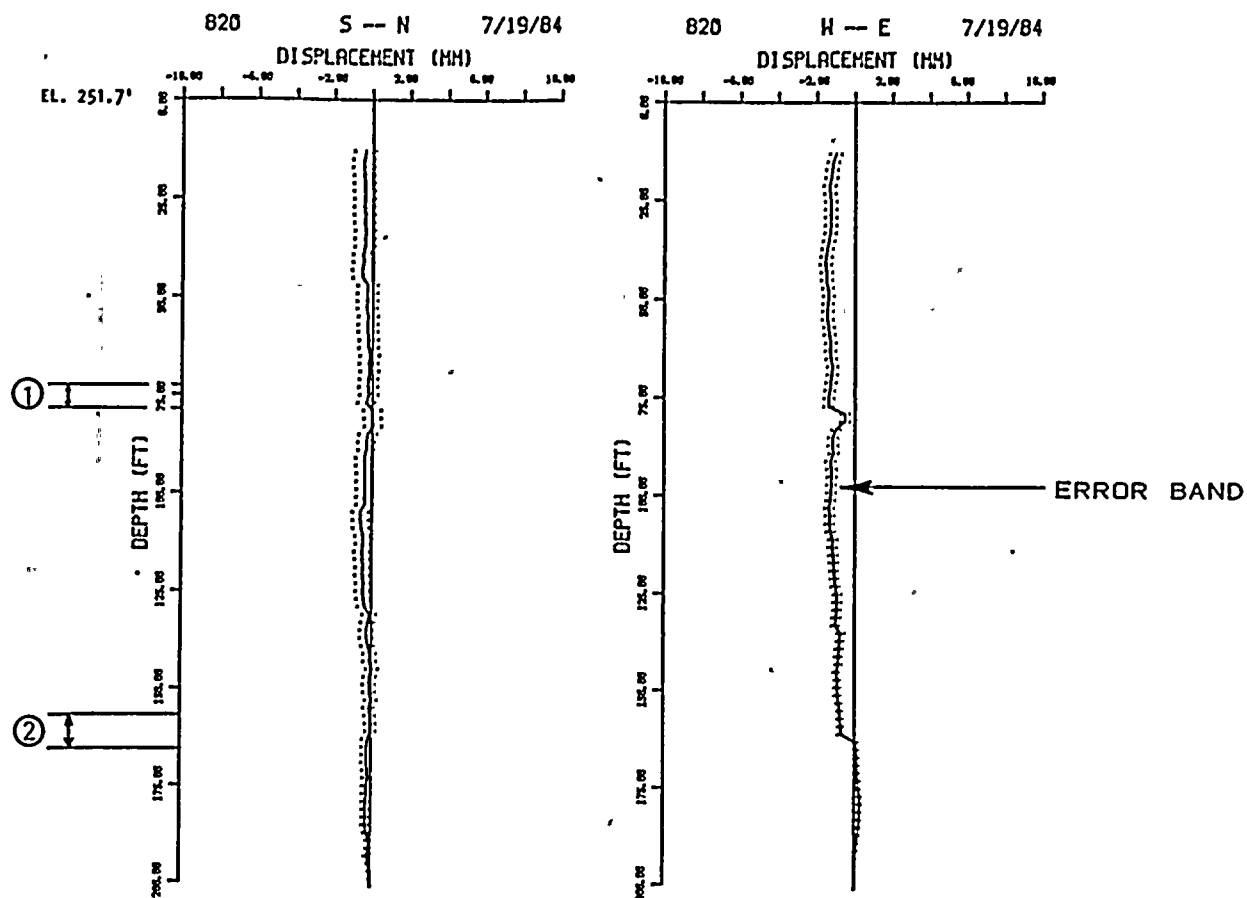


NOTE:

- 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.

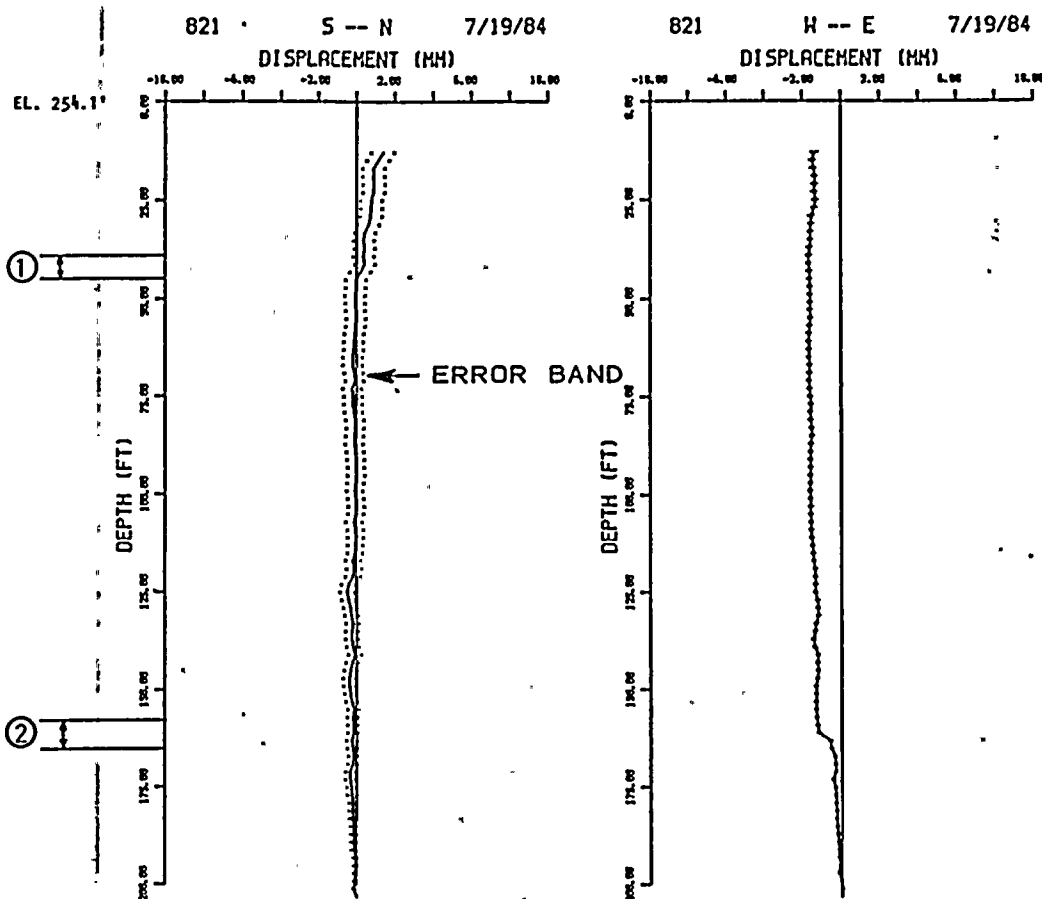


NOTE:

- 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.



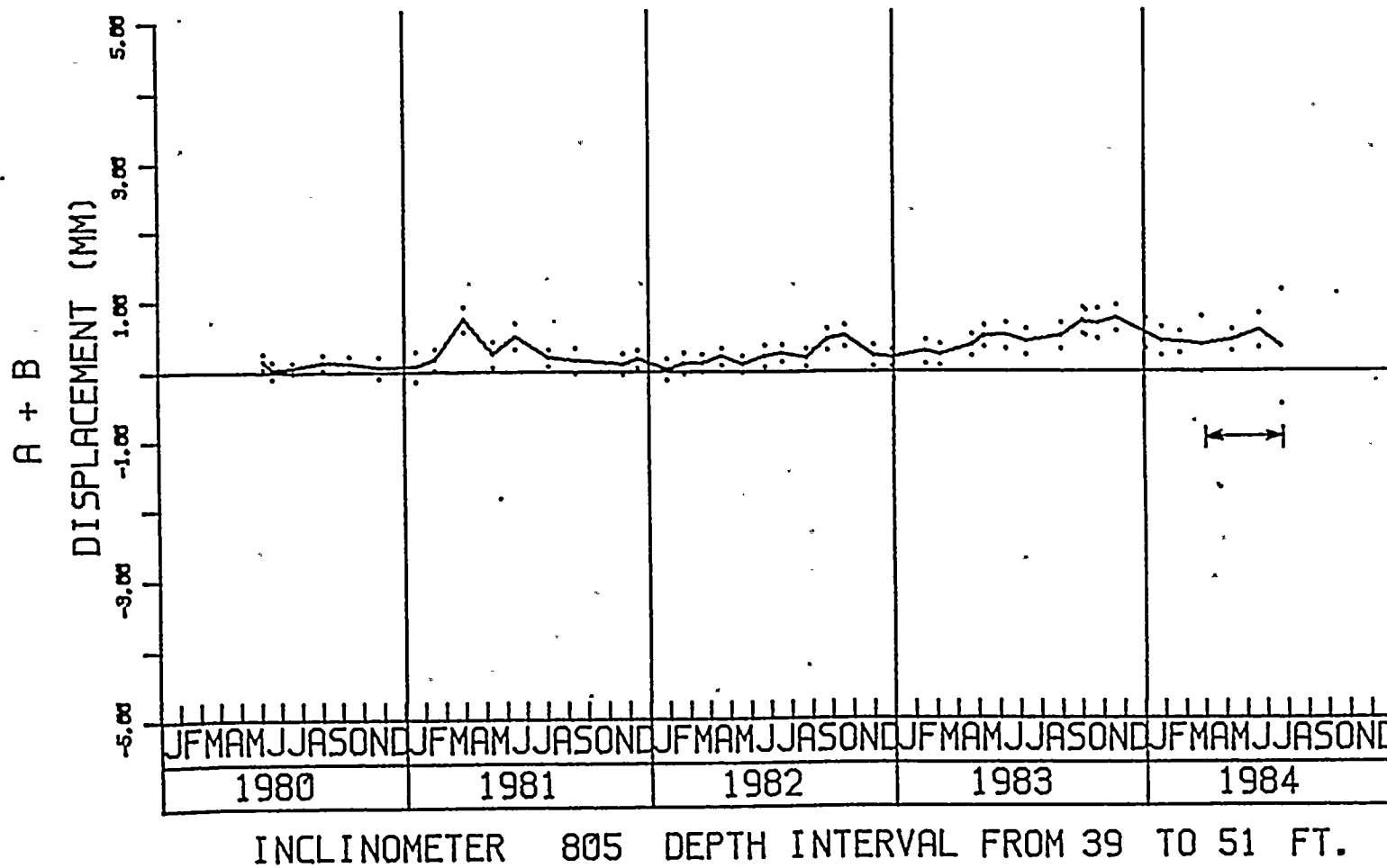
NOTE:

- 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.

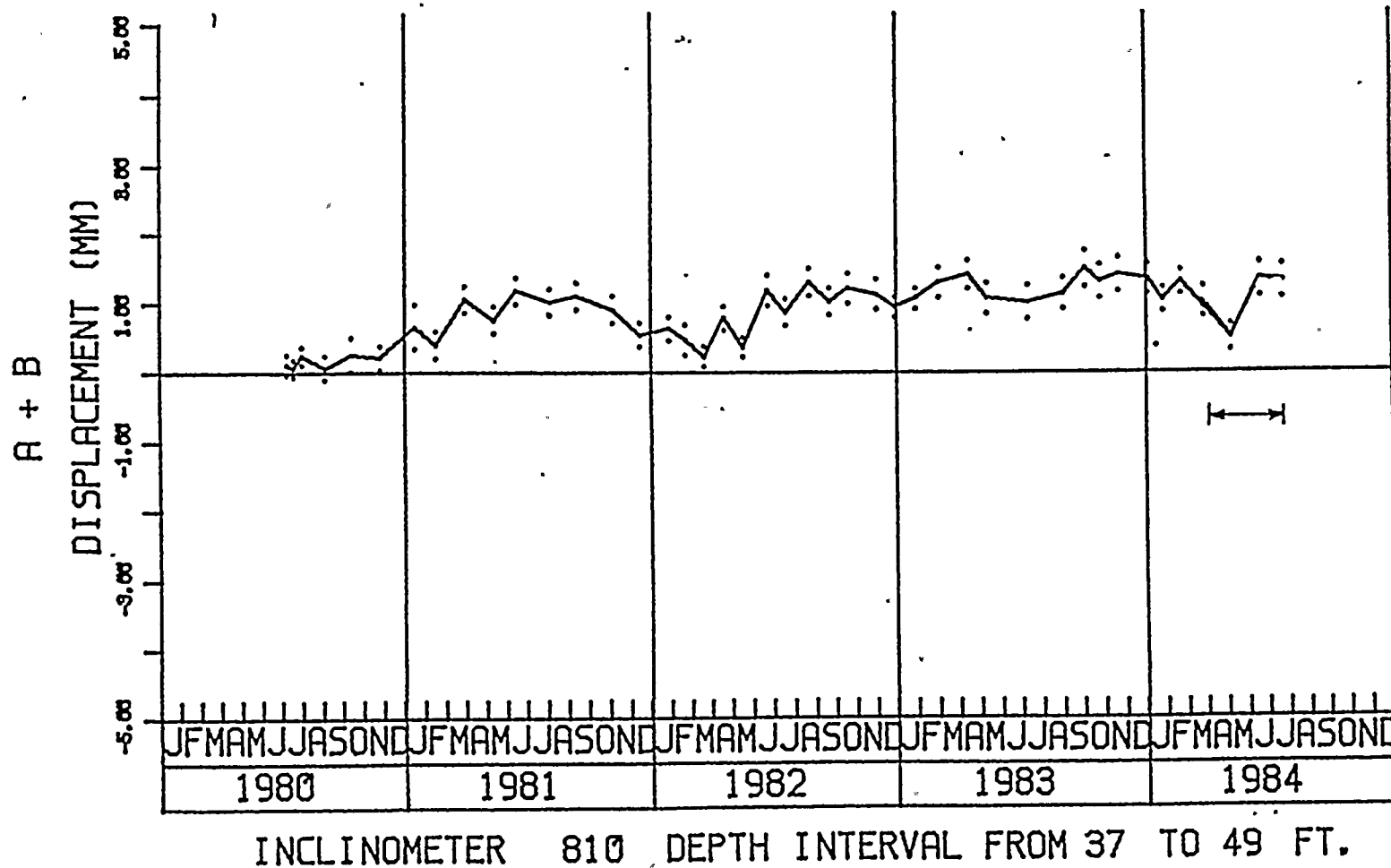
NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.



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

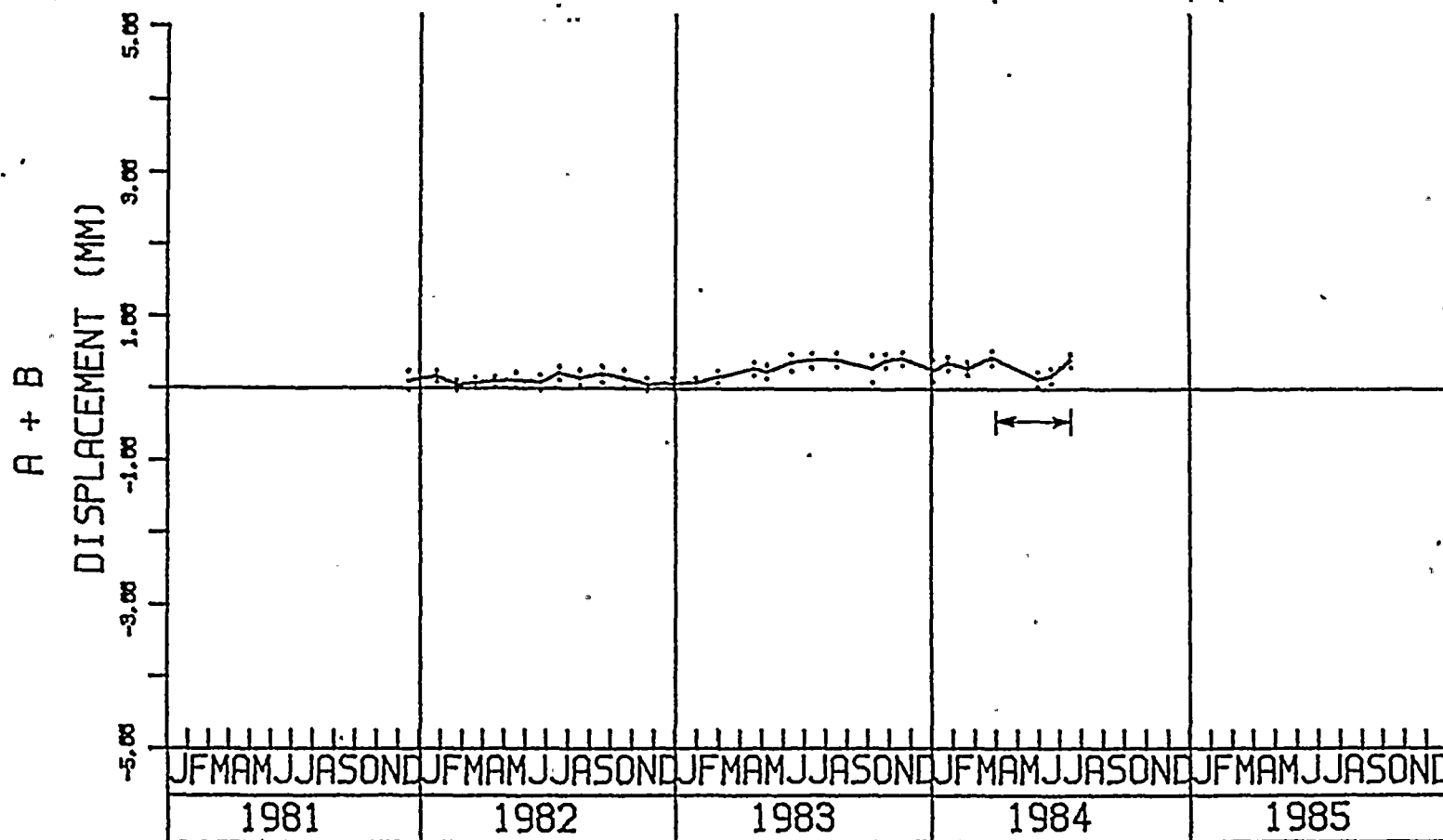
FIGURE 17

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



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



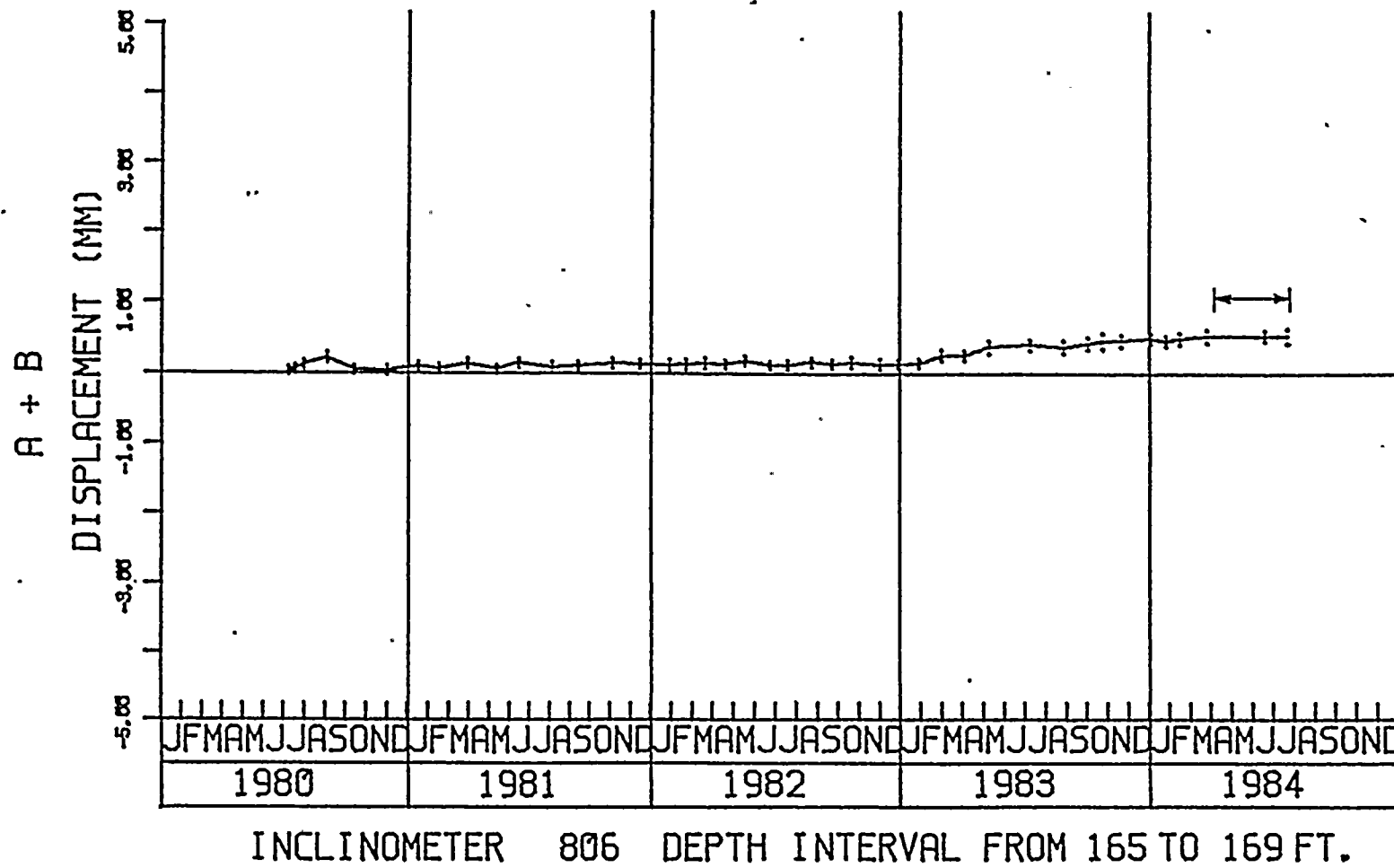


INCLINOMETER 821 DEPTH INTERVAL FROM 39 TO 45 FT.

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

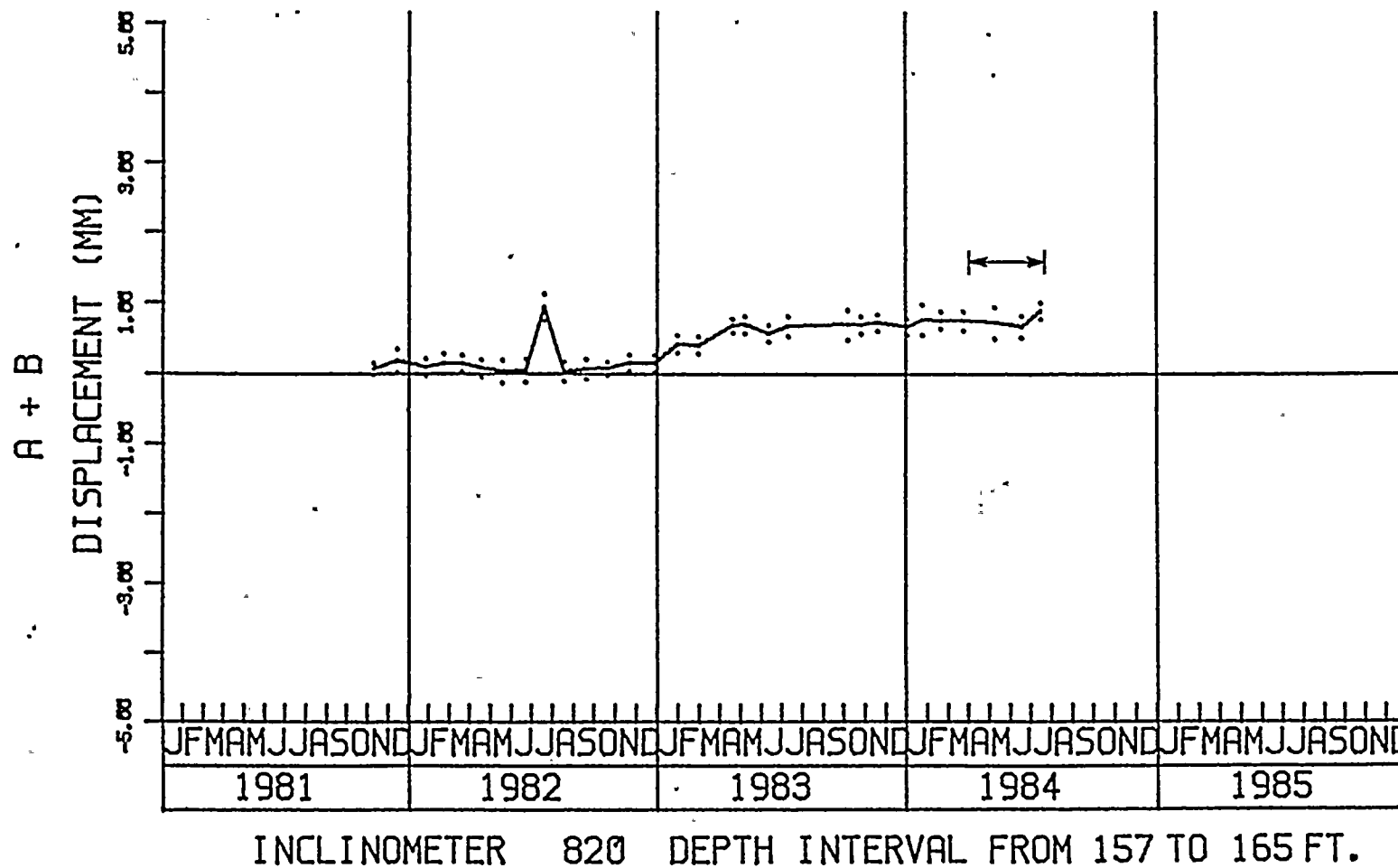
NINE MILE POINT NUCLEAR STATION
 UNIT 2
 NIAGARA MOHAWK POWER CORP.

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



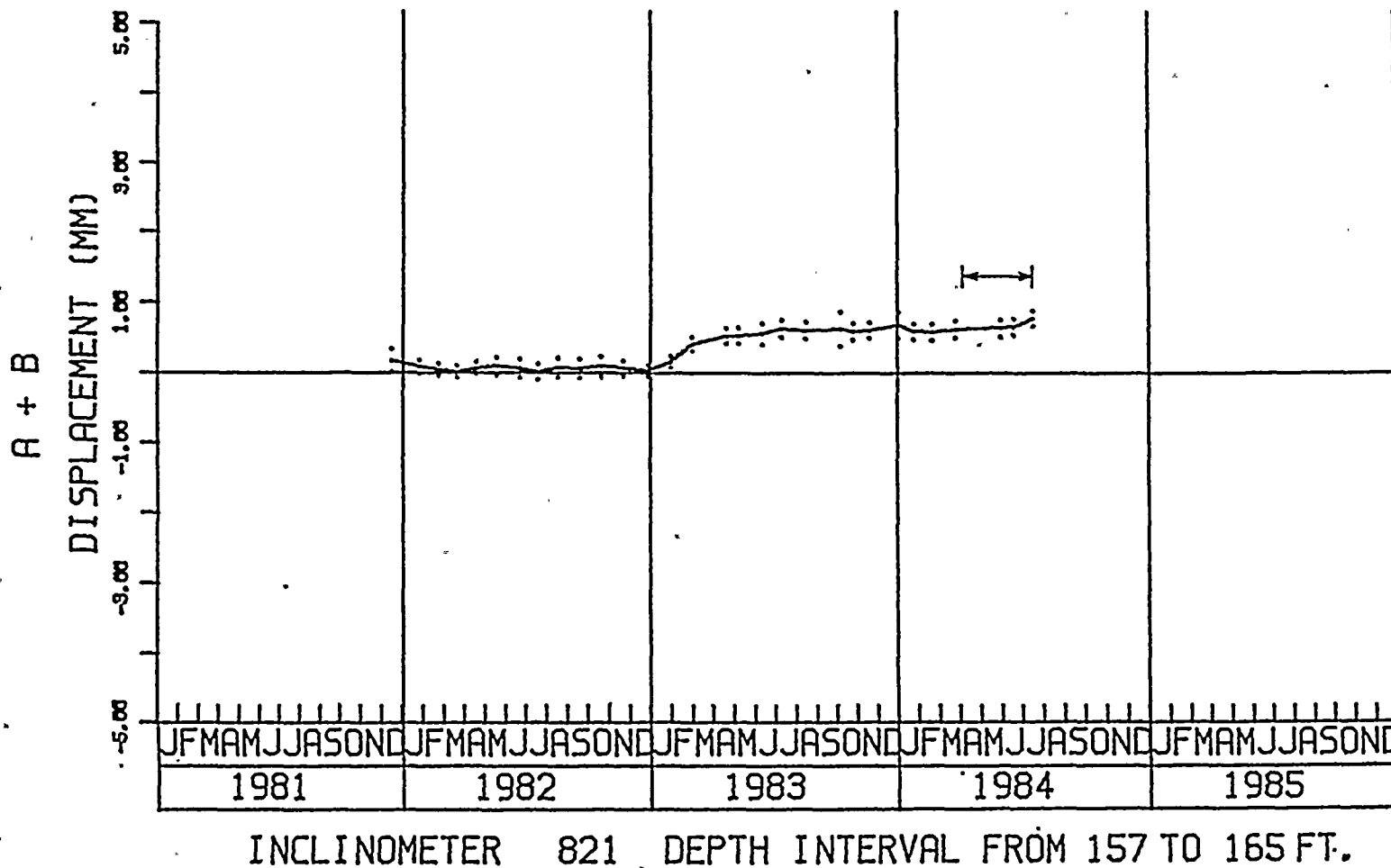
NOTE: Arrow indicates time period of data discussed in this report.

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



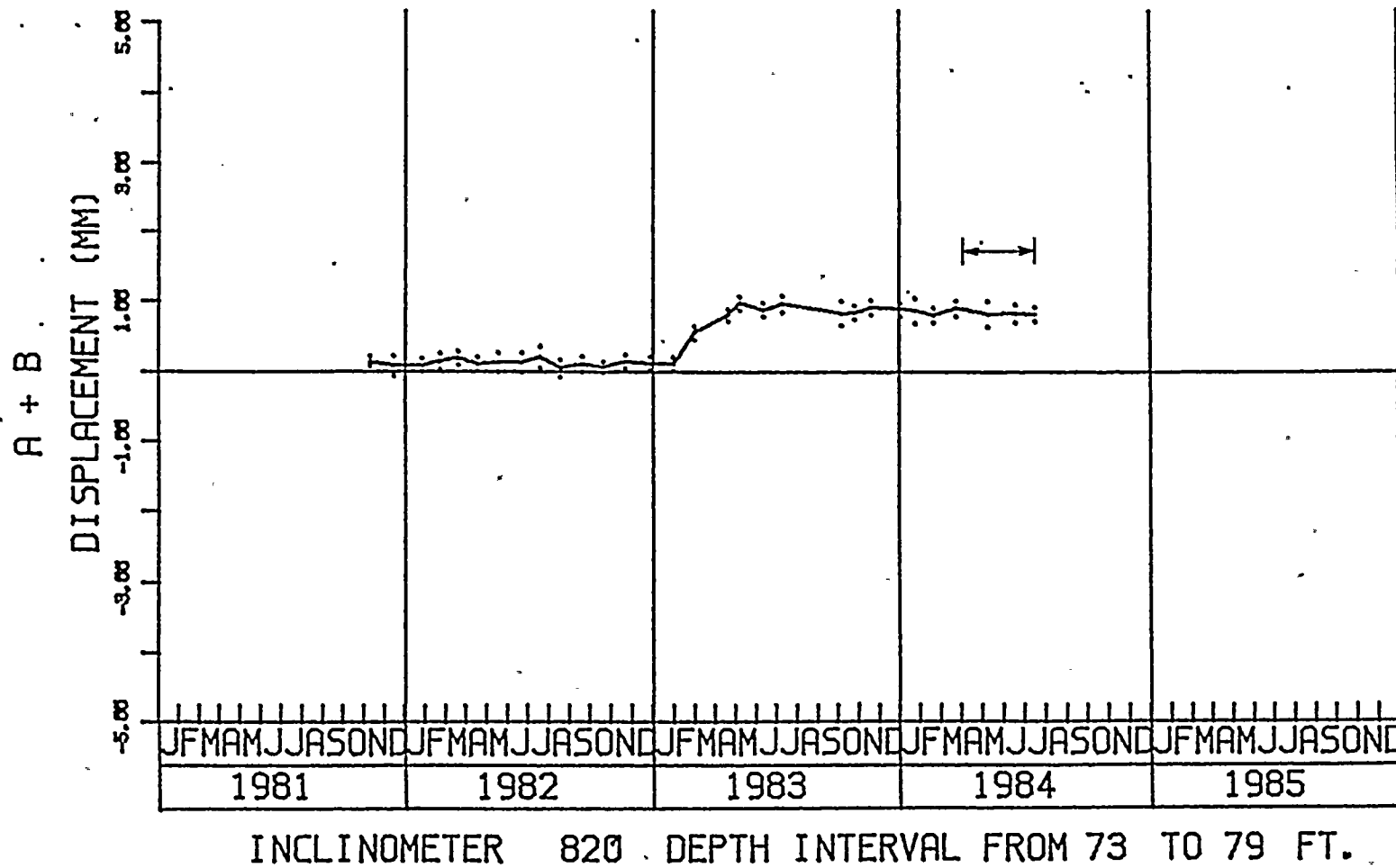
NOTE: Arrow indicates time period of data discussed in this report.

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



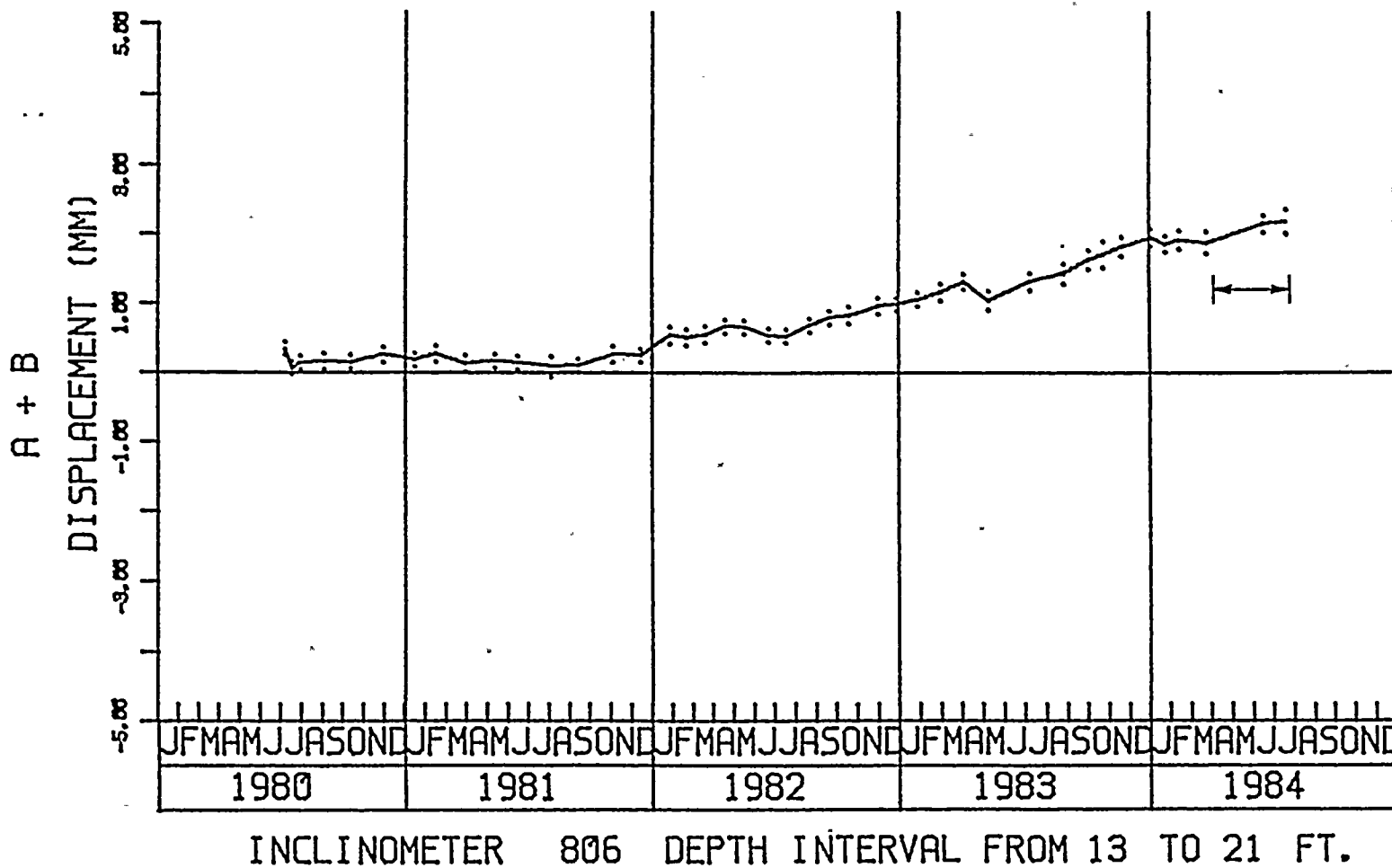
NOTE: Arrow indicates time period of data discussed in this report.

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



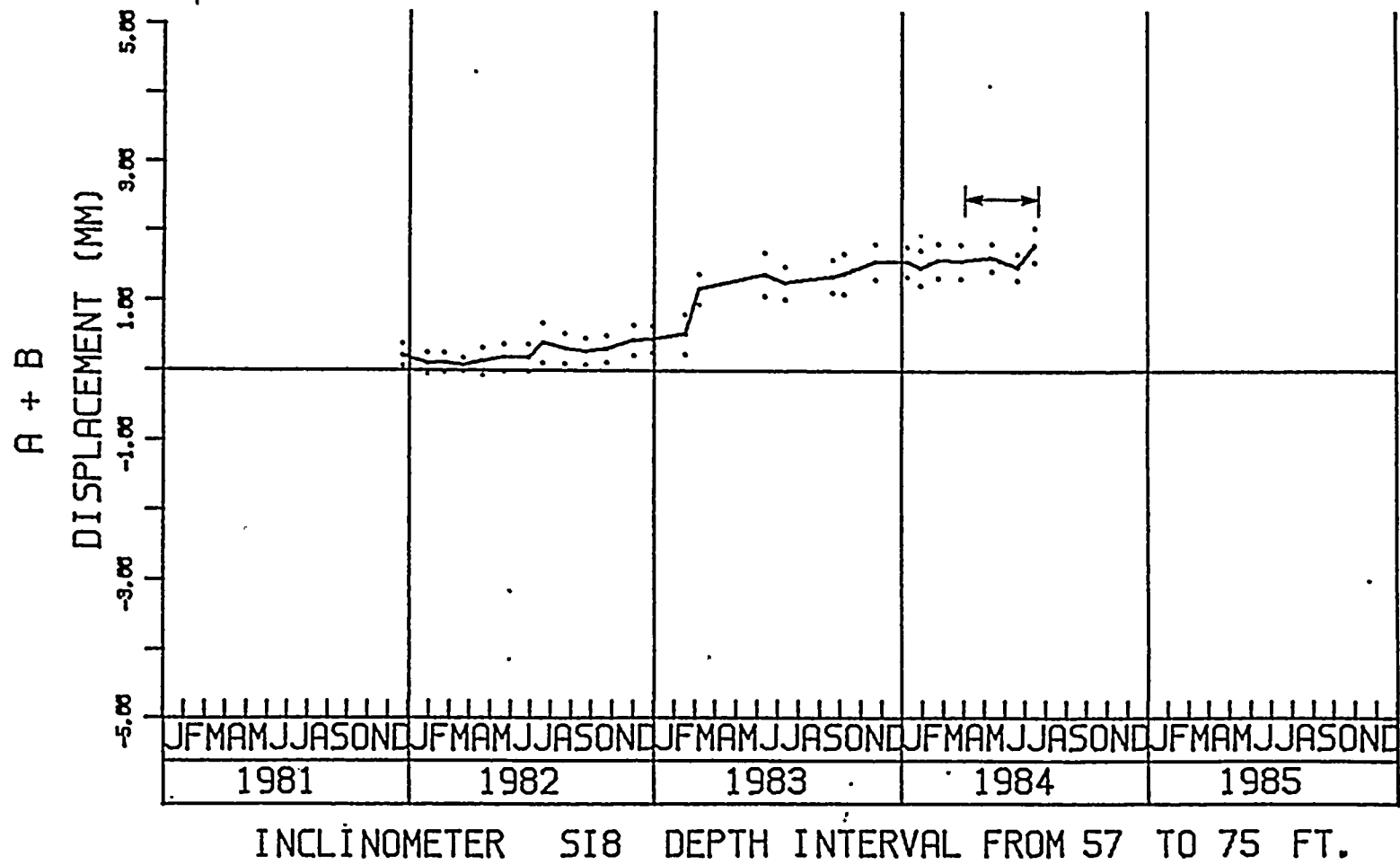
NOTE: Arrow indicates time period of data discussed in this report.

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



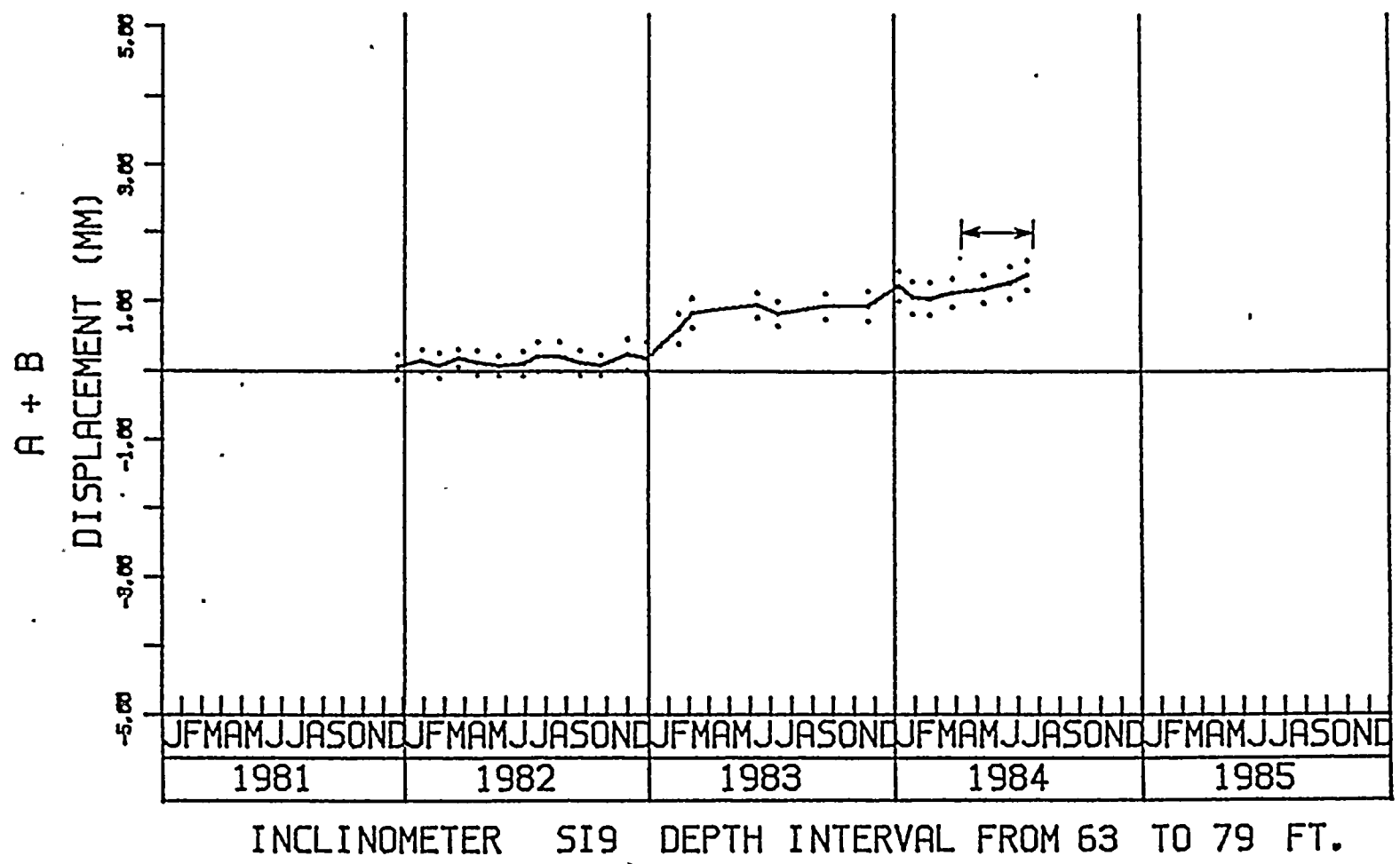
NOTE: Arrow indicates time period of data discussed in this report.

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



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

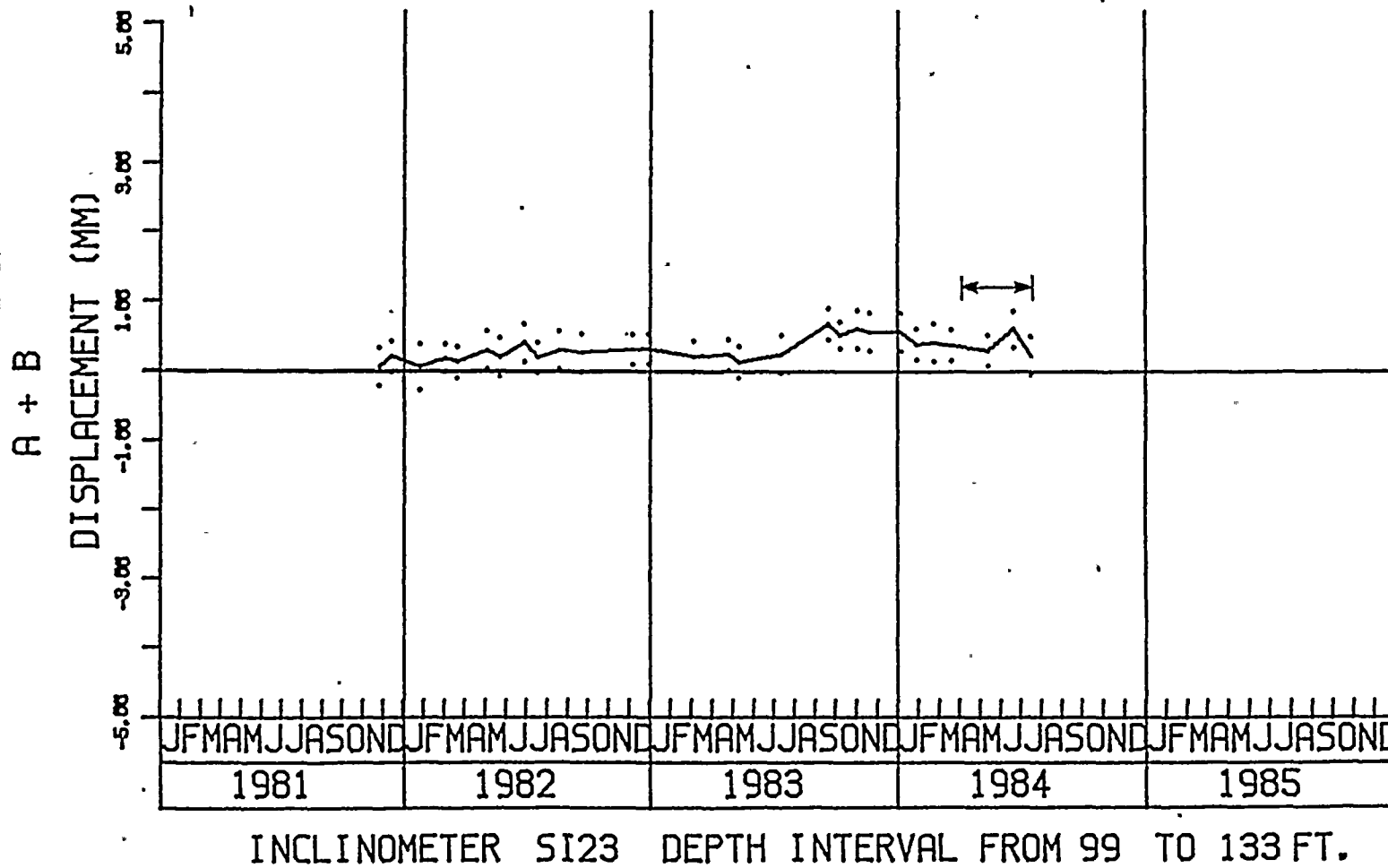
NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

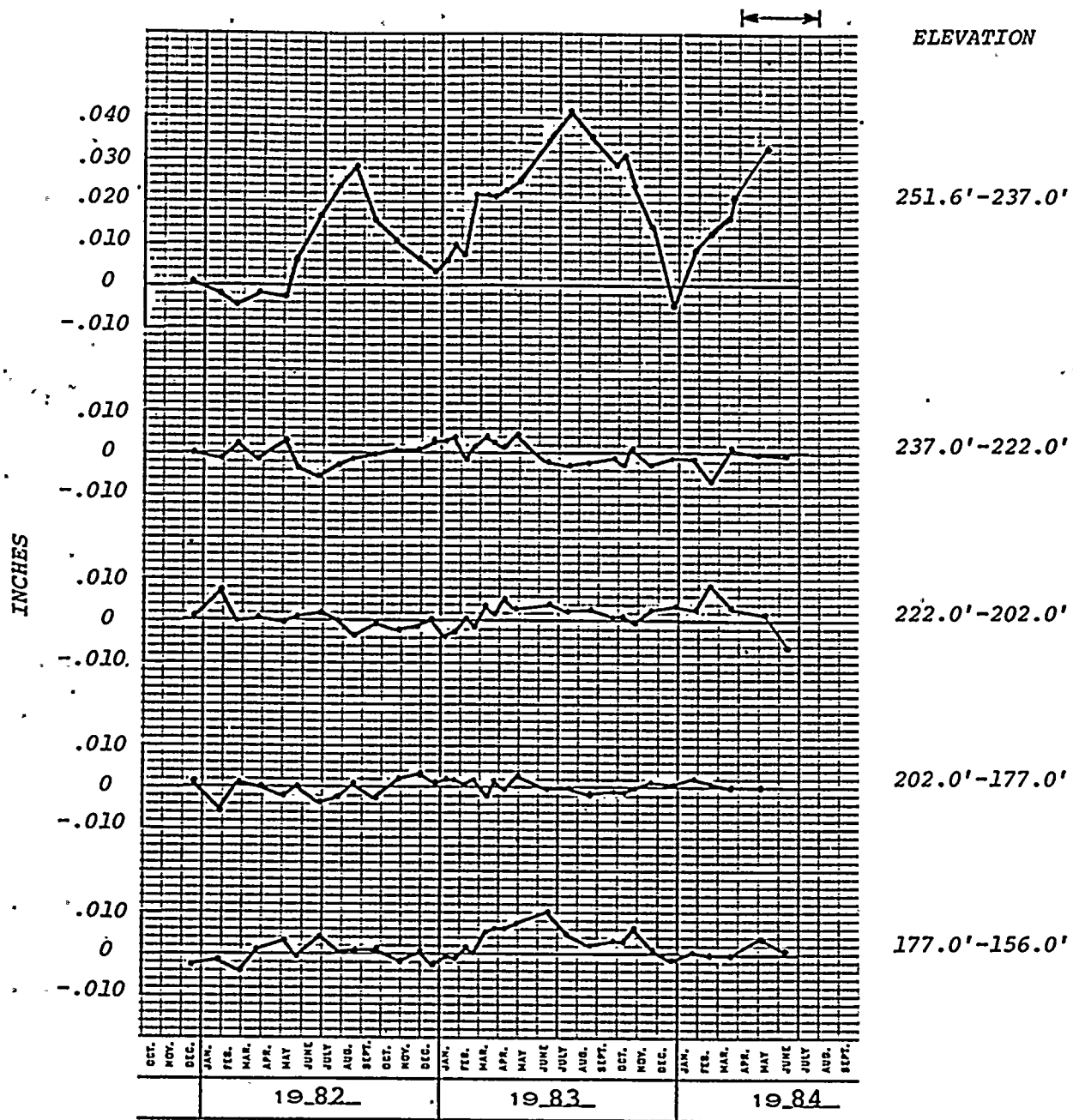


NOTE: Arrow indicates time period of data discussed in this report.

FIGURE 25

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



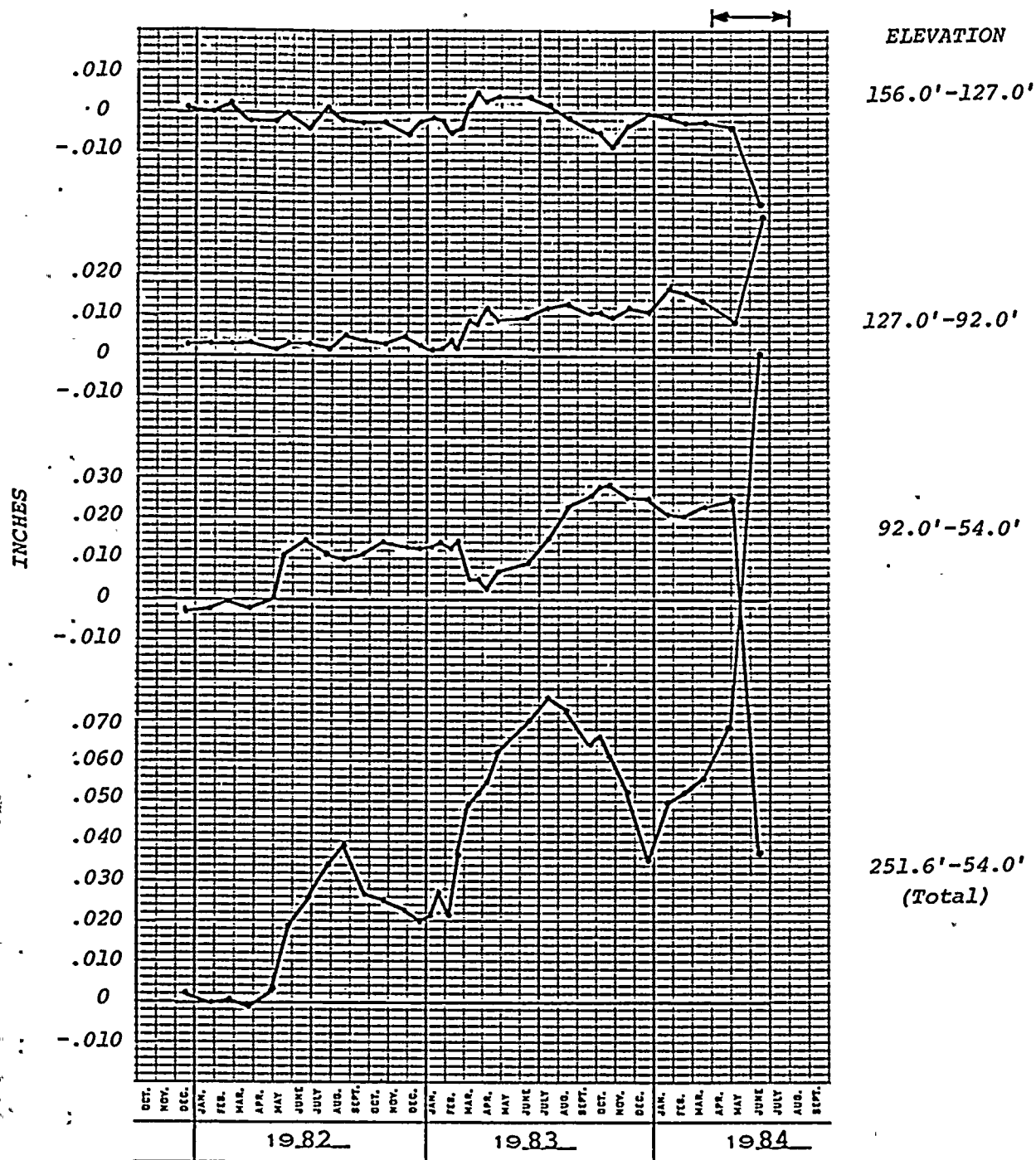


NOTE: Arrow indicates time period of data discussed in this report.

EXTENSOMETER EX-20

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

FIGURE 27A

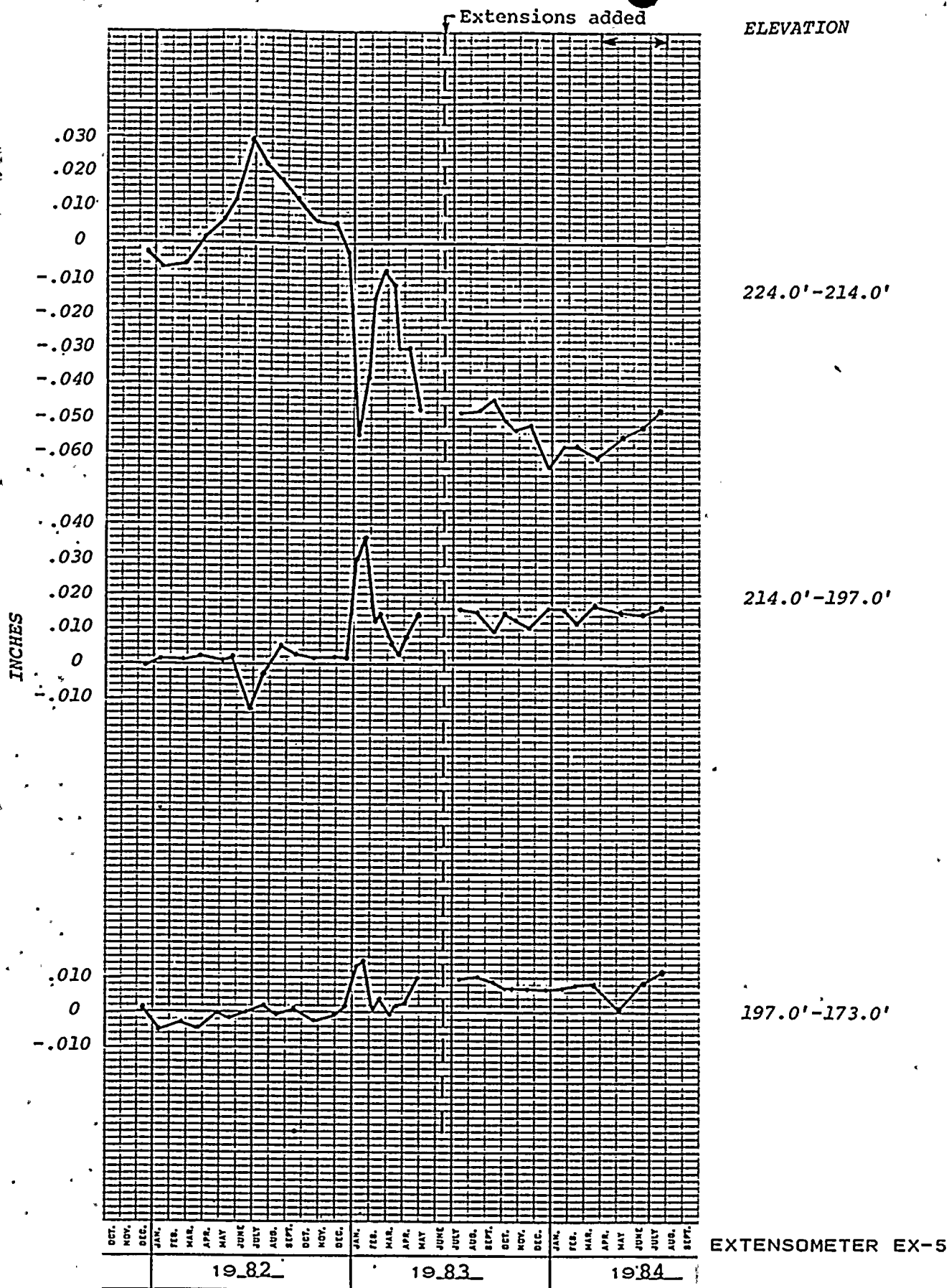


NOTE: Arrow indicates time period of data discussed in this report.

EXTENSOMETER EX-20

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

FIGURE 27B

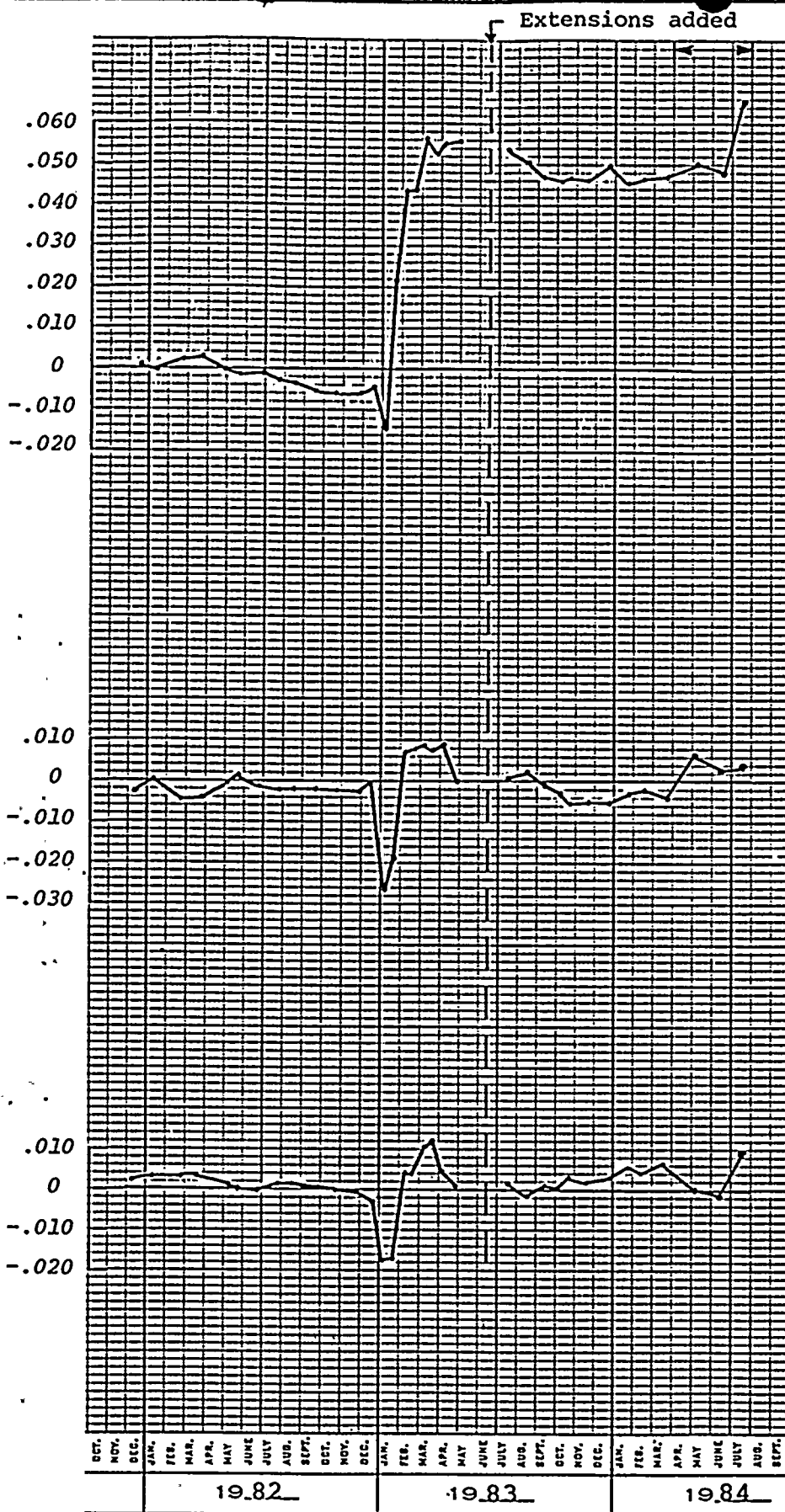


NOTE: Arrow indicates time period of data discussed in this report.

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

FIGURE 29A

INCHES



ELEVATION

173.0'-133.0'

133.0'-111.0'

111.0'-73.0'

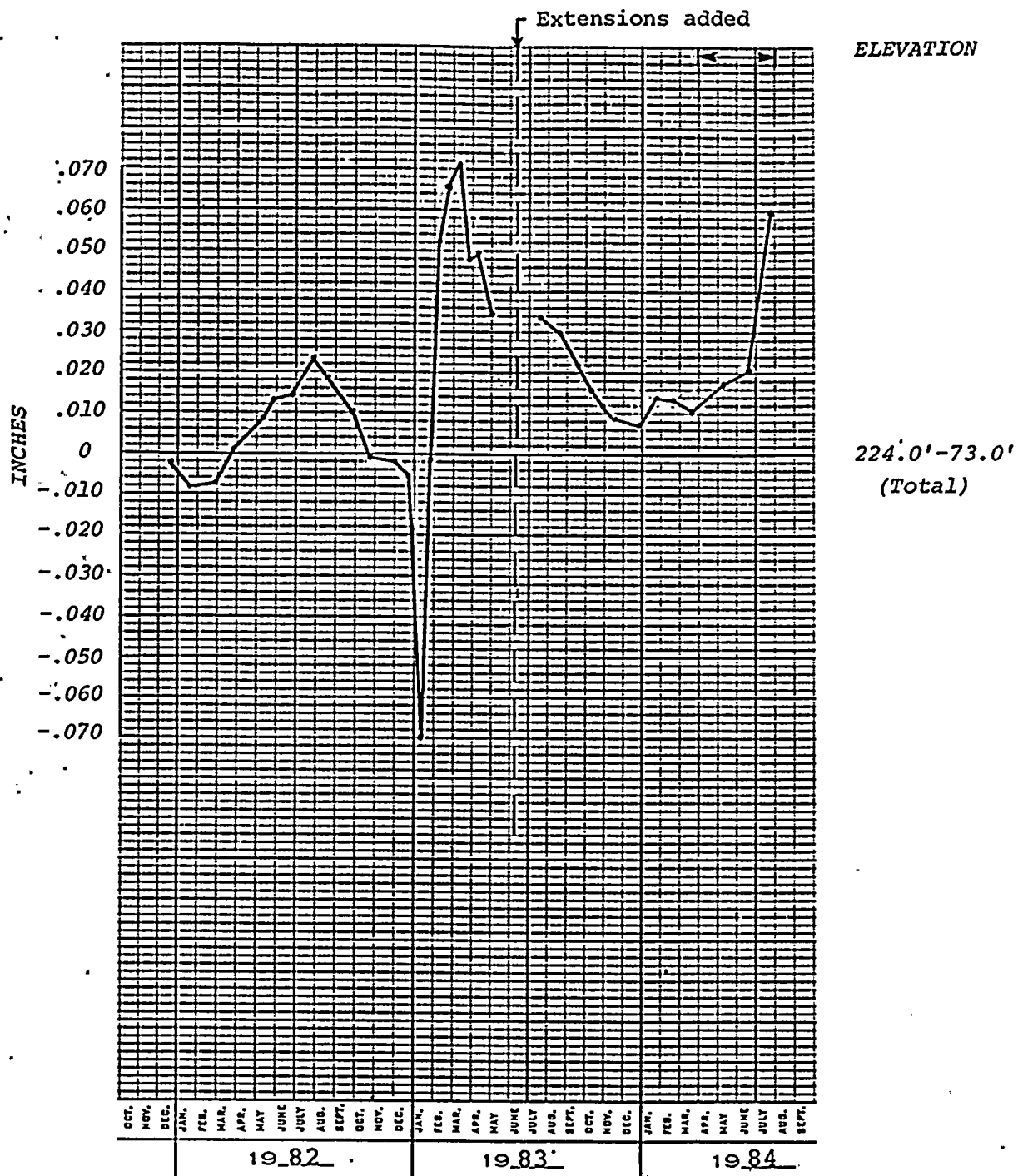
OCT. NOV. DEC. JAN. FEB. MAR. APR. MAY JUNE JULY AUG. SEPT. OCT. NOV. DEC. JAN. FEB. MAR. APR. MAY JUNE JULY AUG. SEPT.
 19.82 19.83 19.84

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

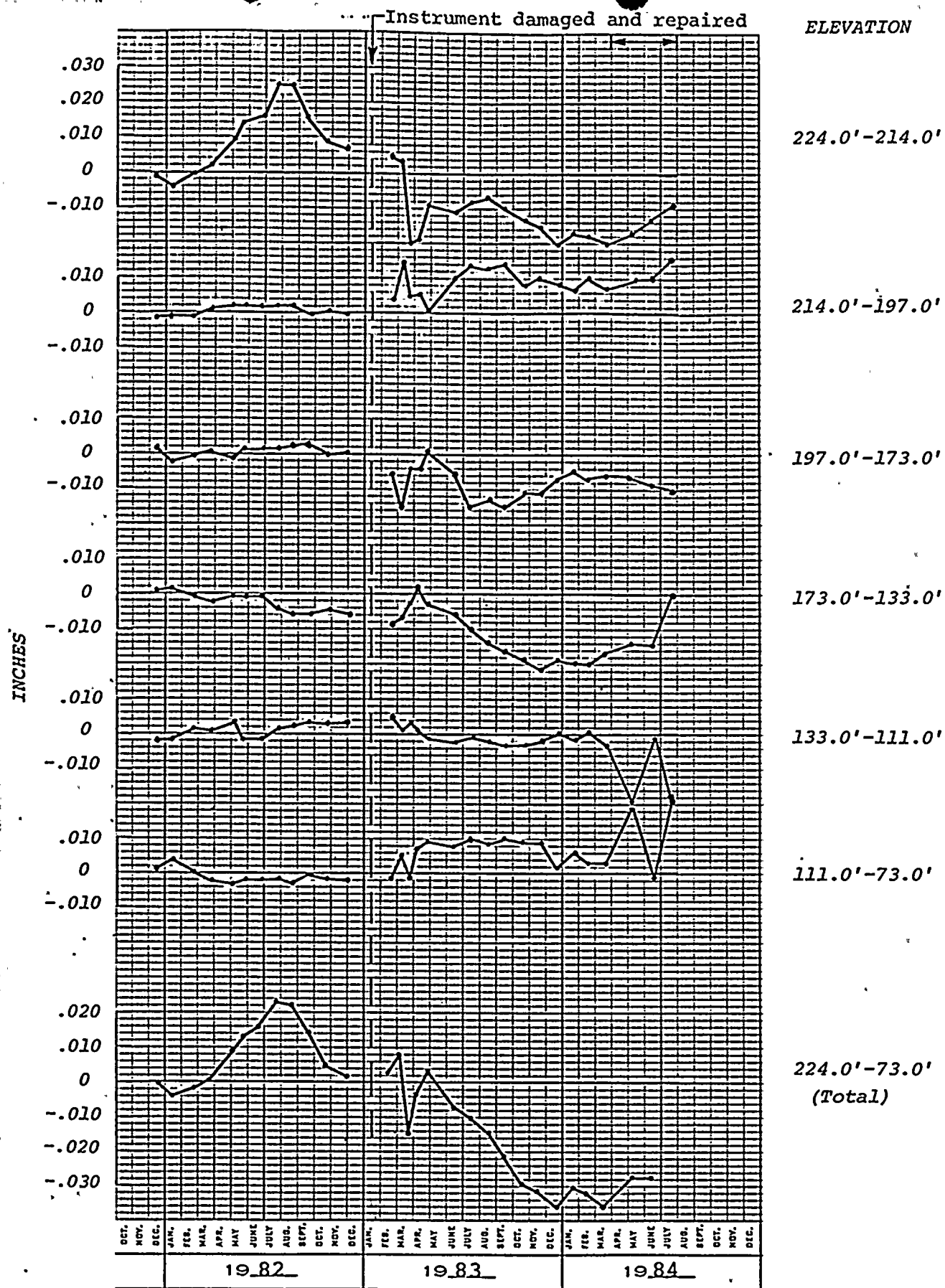


NOTE: Arrow indicates time period of
data discussed in this report.

EXTENSOMETER EX-5

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

FIGURE 29C

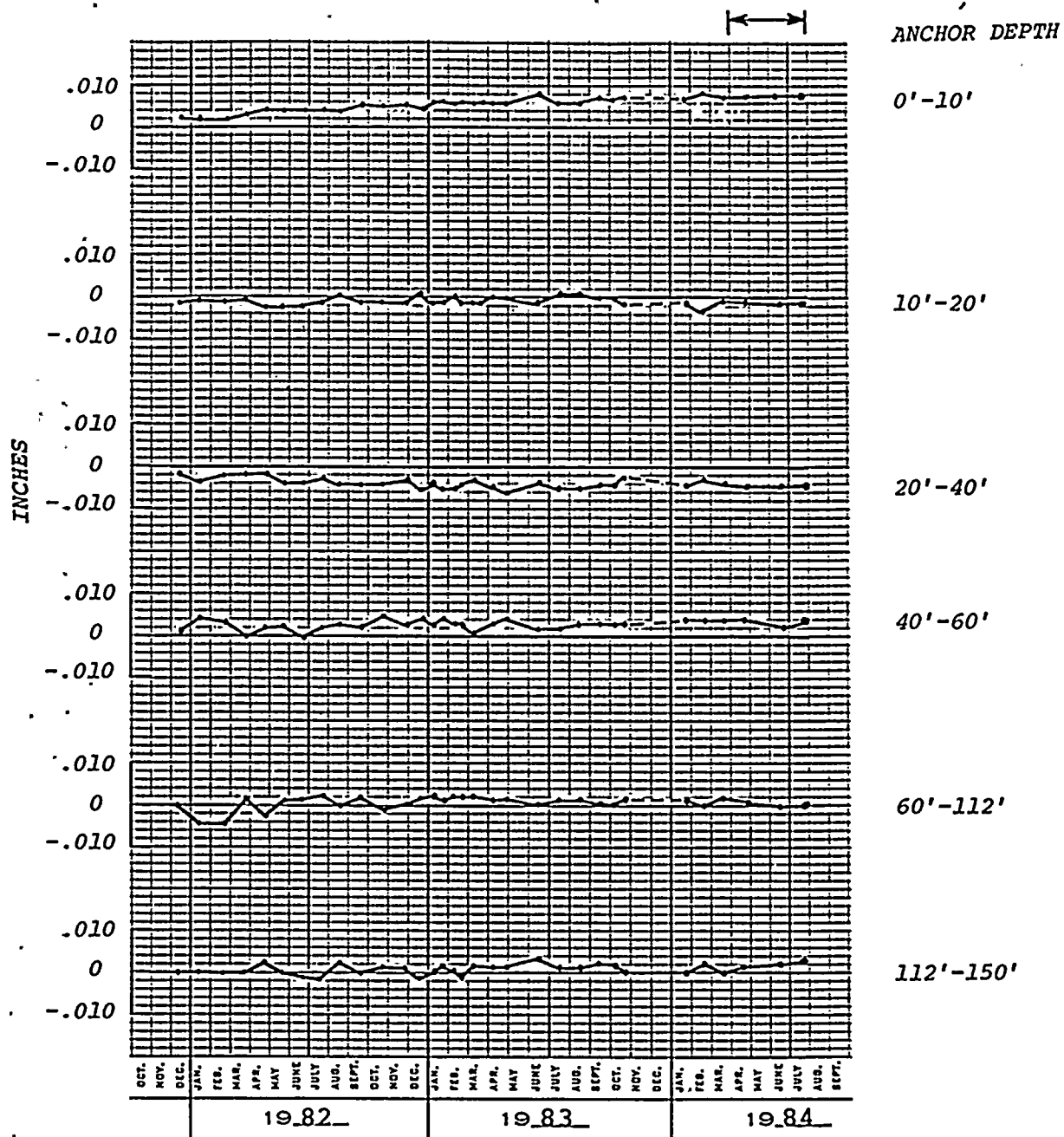


EXTENSOMETER EX-6

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

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

FIGURE 30

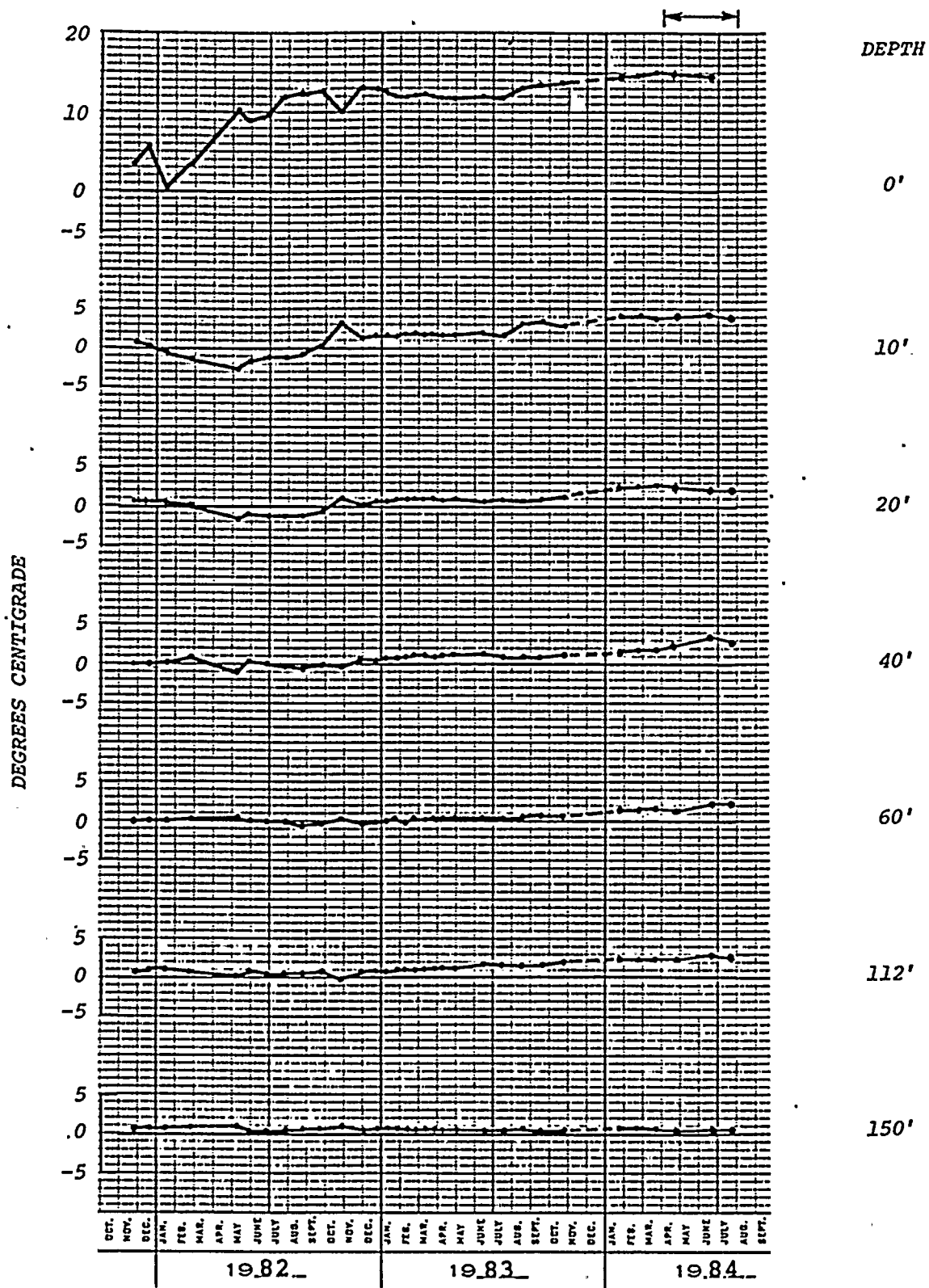


NOTE: Arrow indicates time period of data discussed in this report.

EXTENSOMETER HEX-1
SONIC PROBE

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

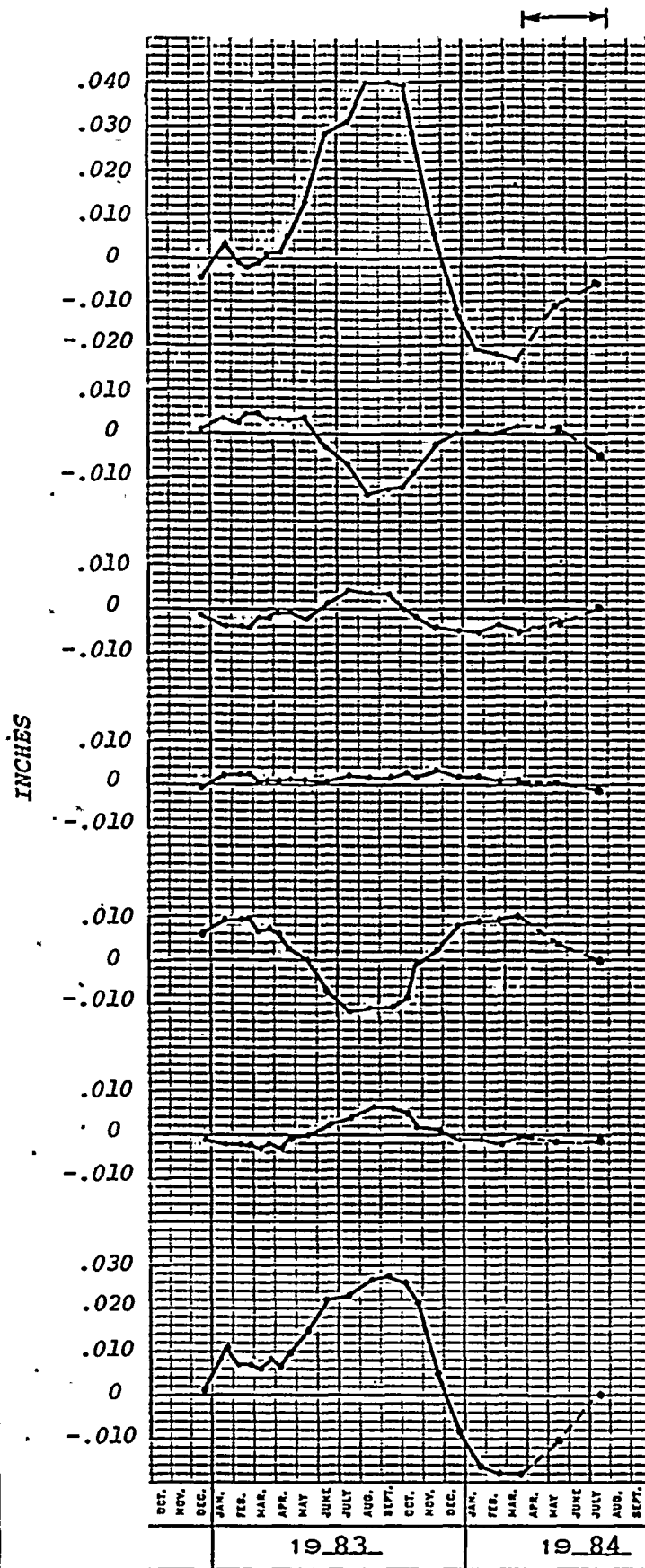
FIGURE 31A



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.



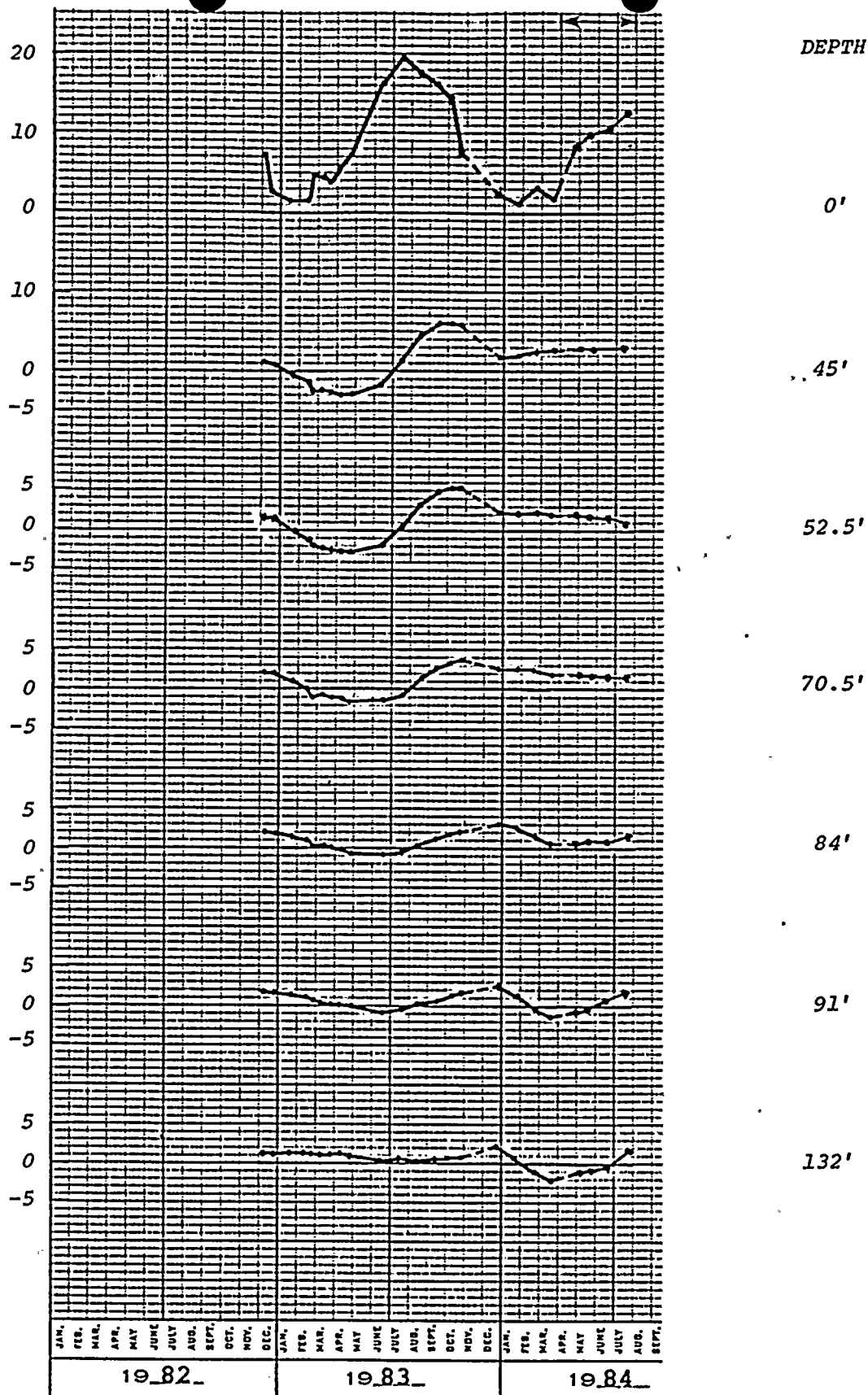
NOTE: Arrow indicates time period of data discussed in this report.

EXTENSOMETER HEX-2
DCDT'S

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

FIGURE 32A

DEGREES CENTIGRADE

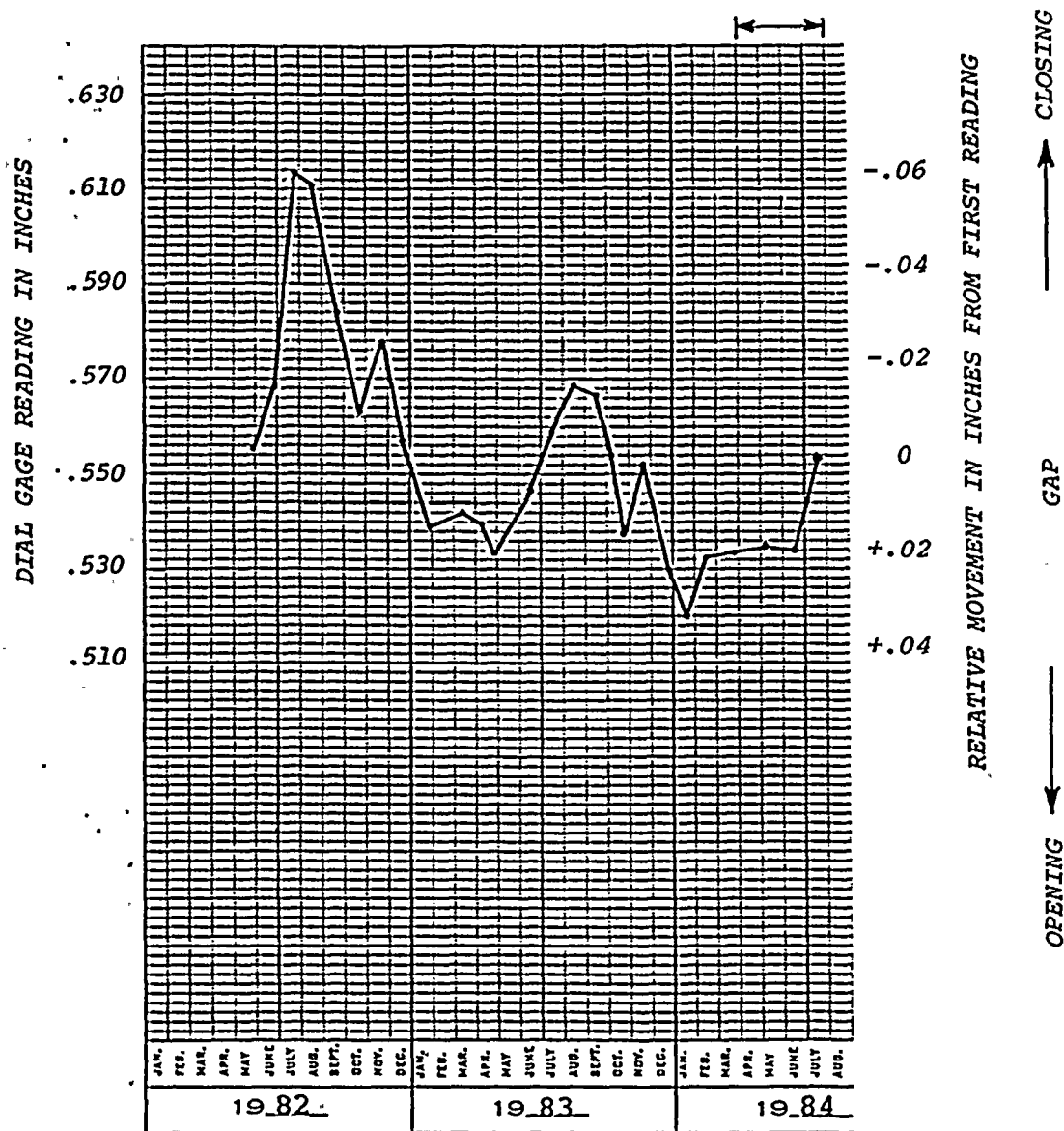


EXTENSOMETER HEX-2
THERMISTORS

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

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

FIGURE 32B

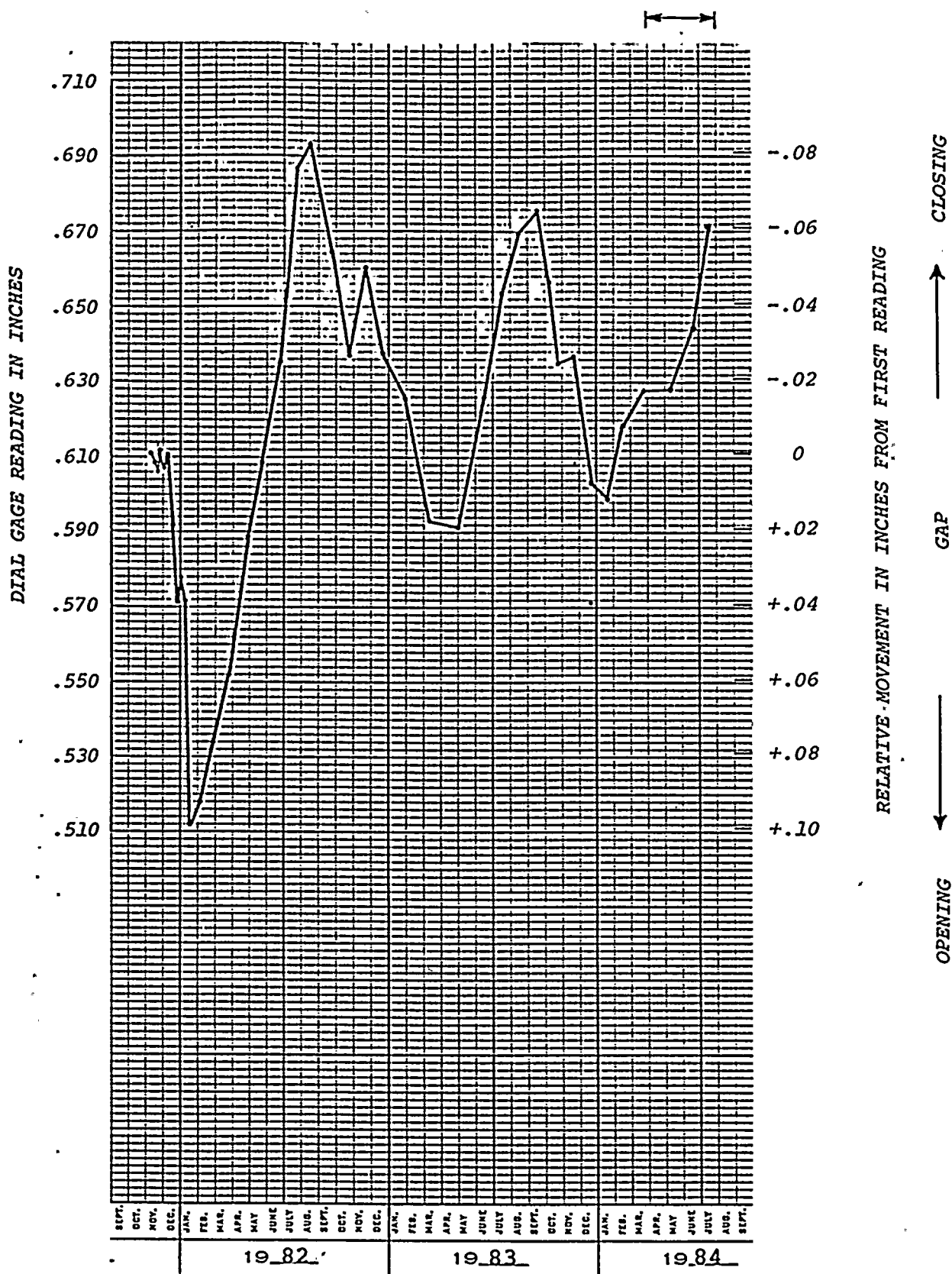


NOTE: Arrow indicates time period of data discussed in this report.

GAP GAGE G1A

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

FIGURE 33

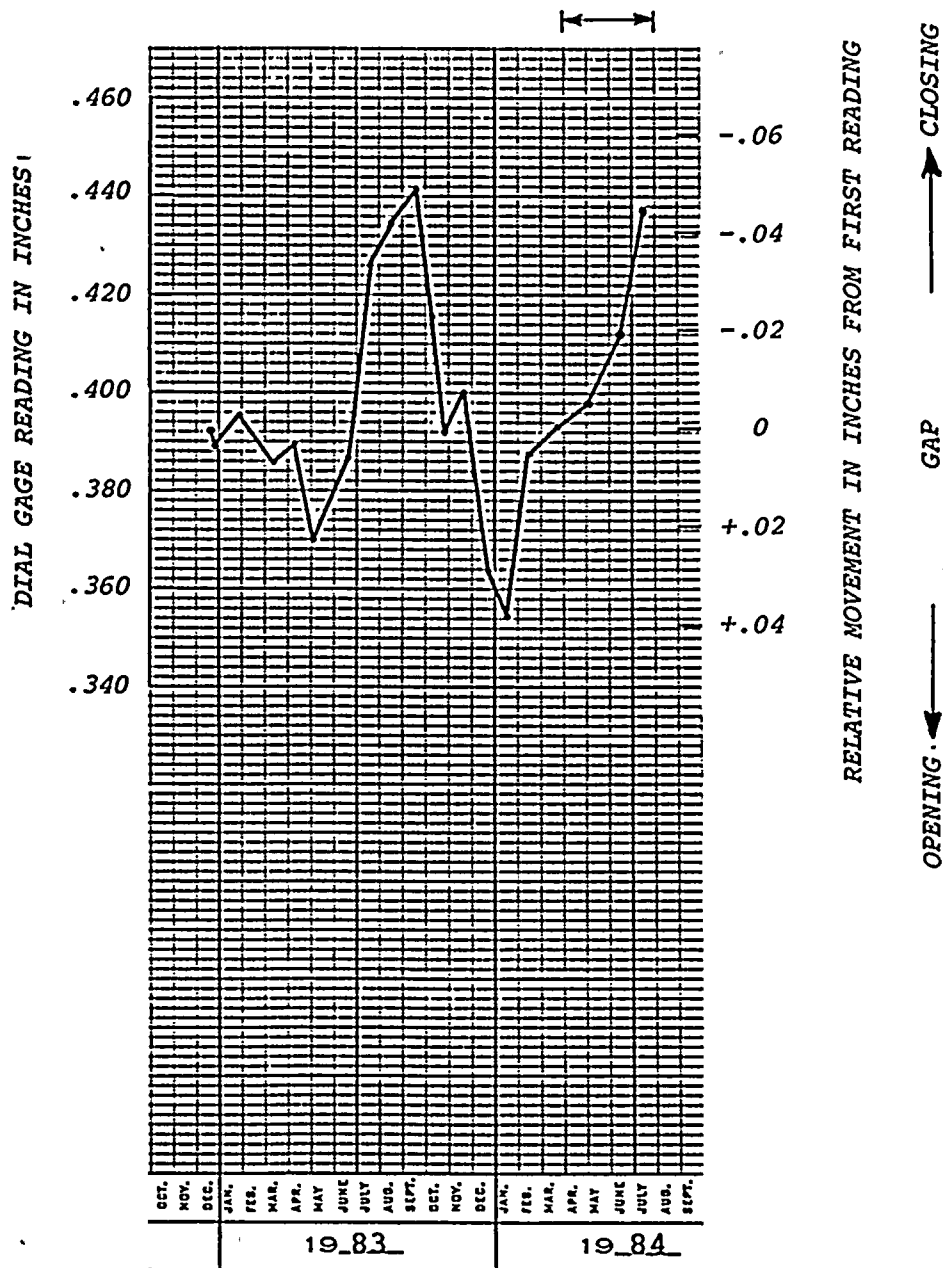


NOTE: Arrow indicates time period of data discussed in this report.

GAP GAGE G1B

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

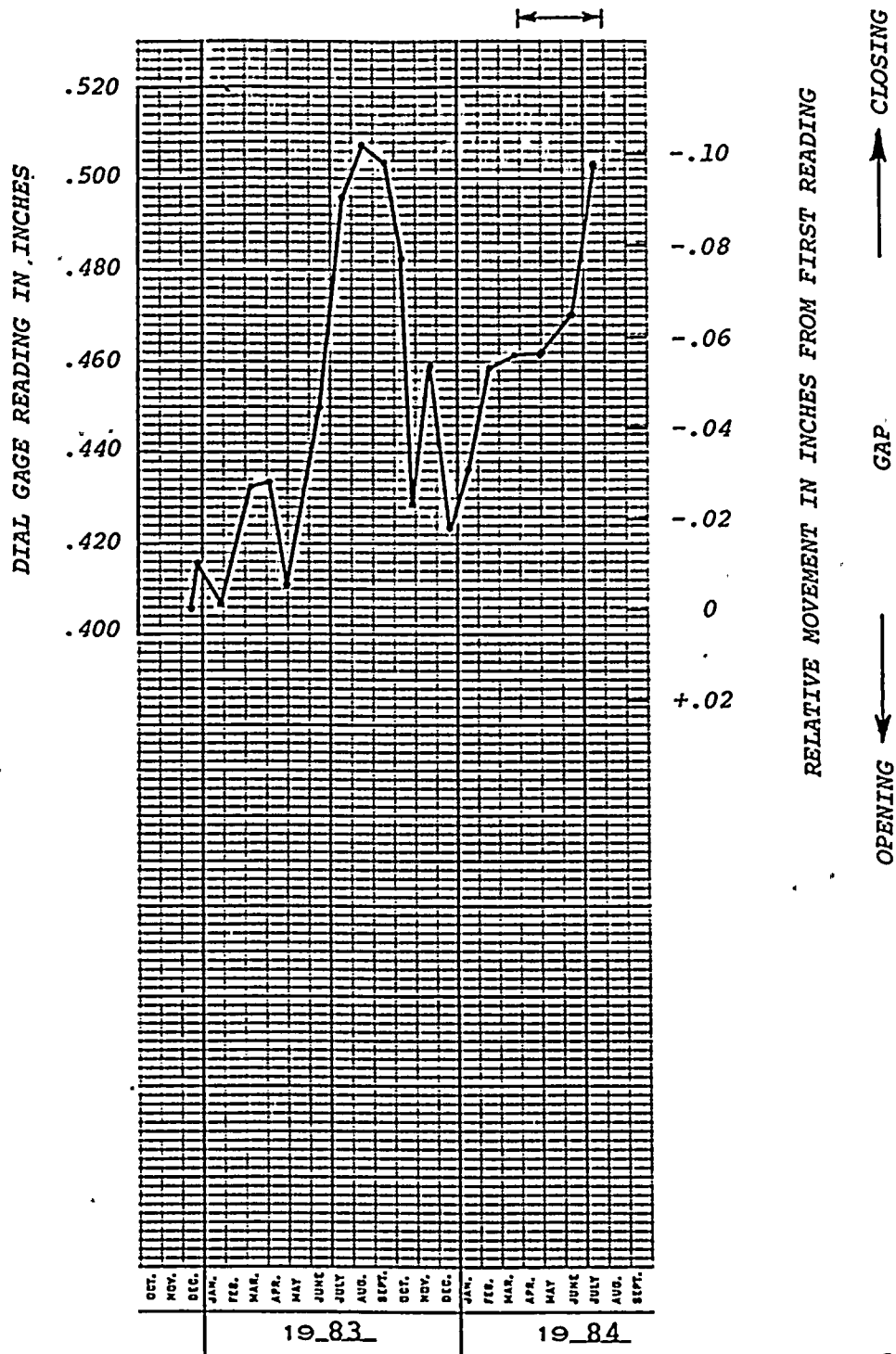
FIGURE 34



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.



GAP, GAGE, G1D

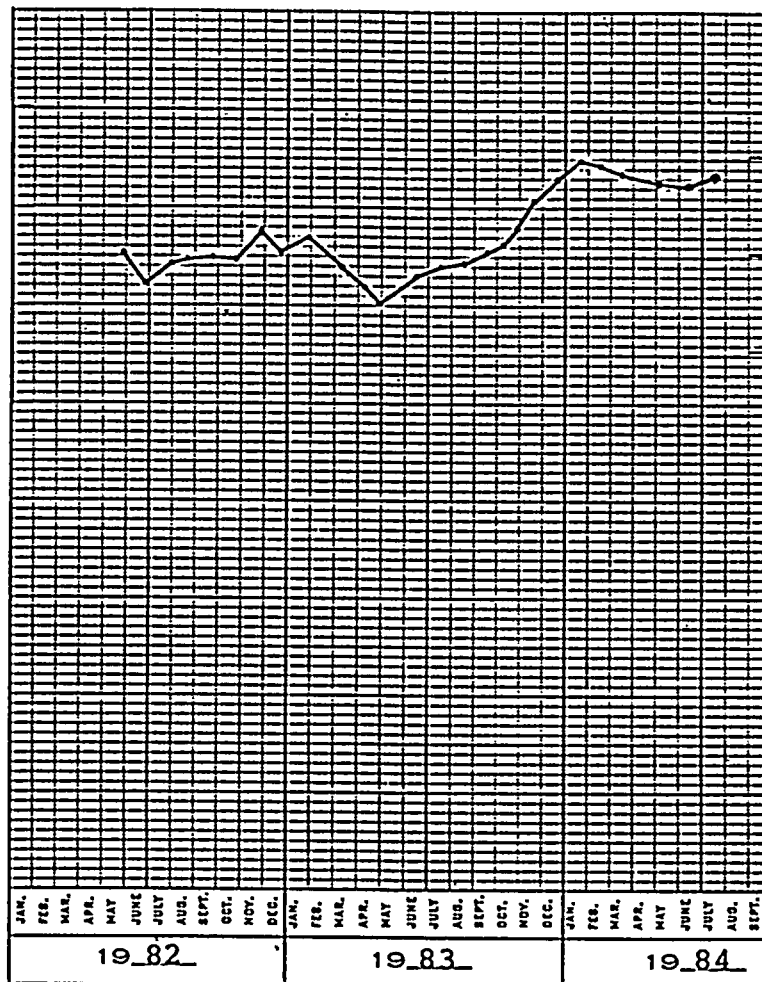
NOTE: Arrow indicates time period of data discussed in this report.

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

FIGURE 36

DIAL GAGE READING IN INCHES

.490
.470
.450
.430



-.02
0
+.02

RELATIVE MOVEMENT IN INCHES FROM FIRST READING

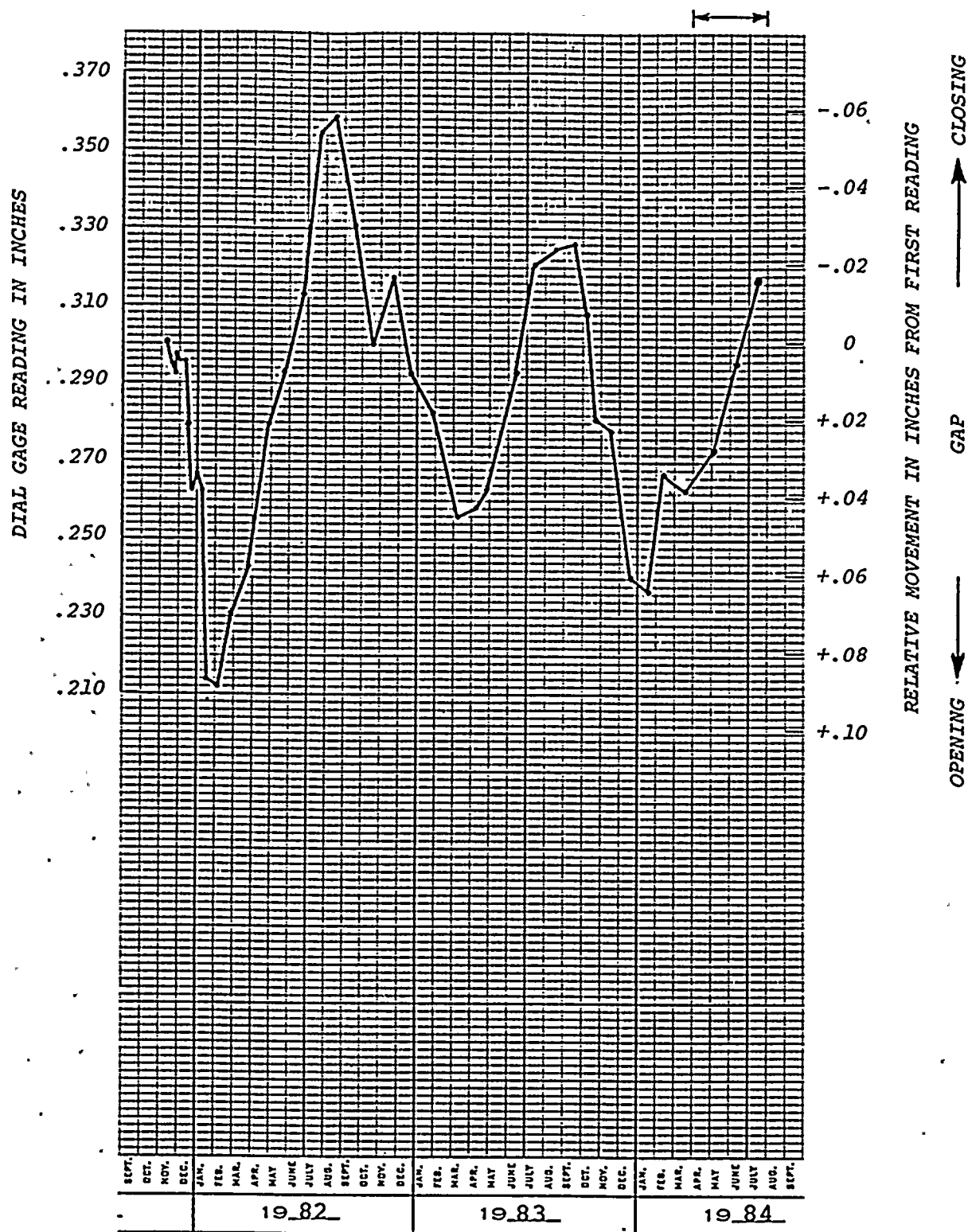
↑ CLOSING
GAP
↓ OPENING

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



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

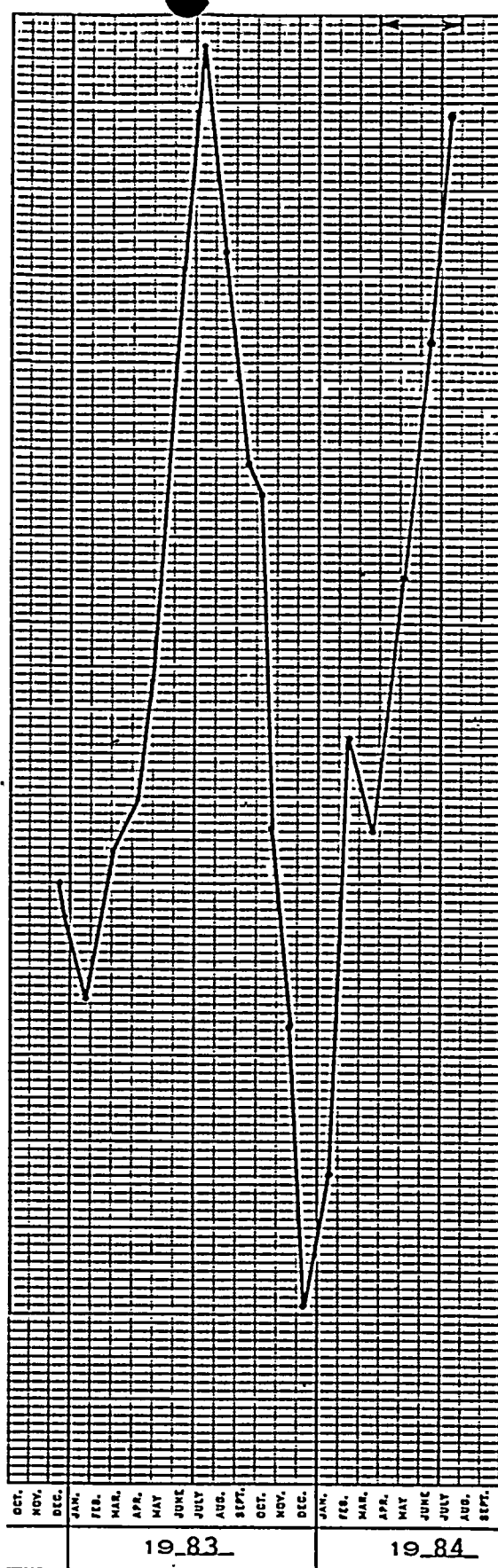
GAP, GAGE G2B

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

FIGURE 38

DIAL GAGE READING IN INCHES

.640
.620
.600
.580
.560
.540
.520
.500
.480
.460
.440
.420
.400
.380
.360
.340



-.20
-.18
-.16
-.14
-.12
-.10
-.08
-.06
-.04
0
+.02
+.04
+.06
+.08
+.10

RELATIVE MOVEMENT IN INCHES FROM FIRST READING

↑ CLOSING
↓ OPENING

GAP

1983

1984

GAP GAGE G3 NORMAL

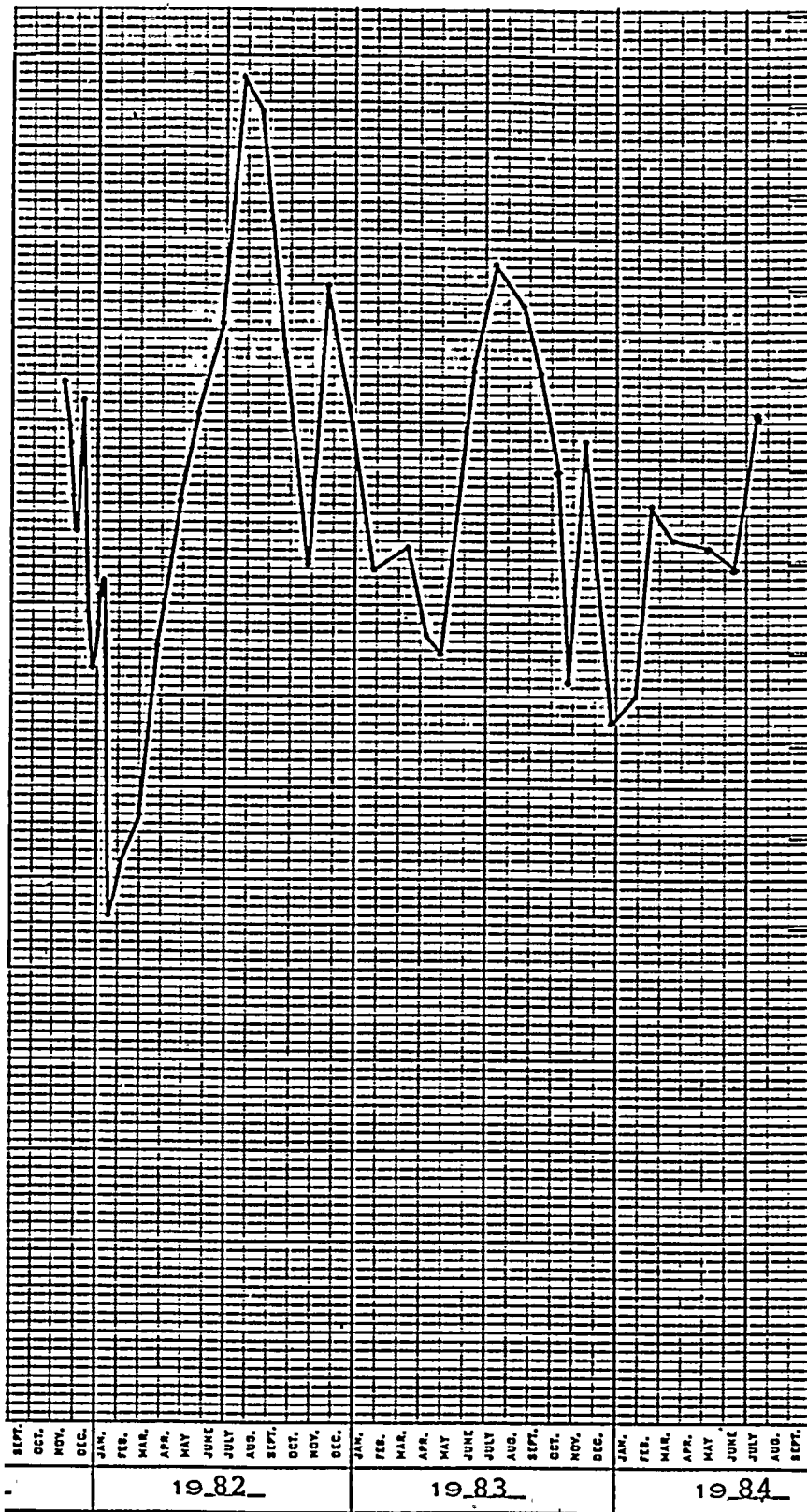
NOTE: Arrow indicates time period of data discussed in this report.

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

FIGURE 39

DIAL GAGE READING IN INCHES

.610
.590
.570
.550
.530
.510
.490
.470
.450
.430
.410



-.08
-.06
-.04
-.02
0
+.02
+.04
+.06
+.08
+.10
+.12

RELATIVE MOVEMENT IN INCHES FROM FIRST READING

CLOSING
GAP
OPENING

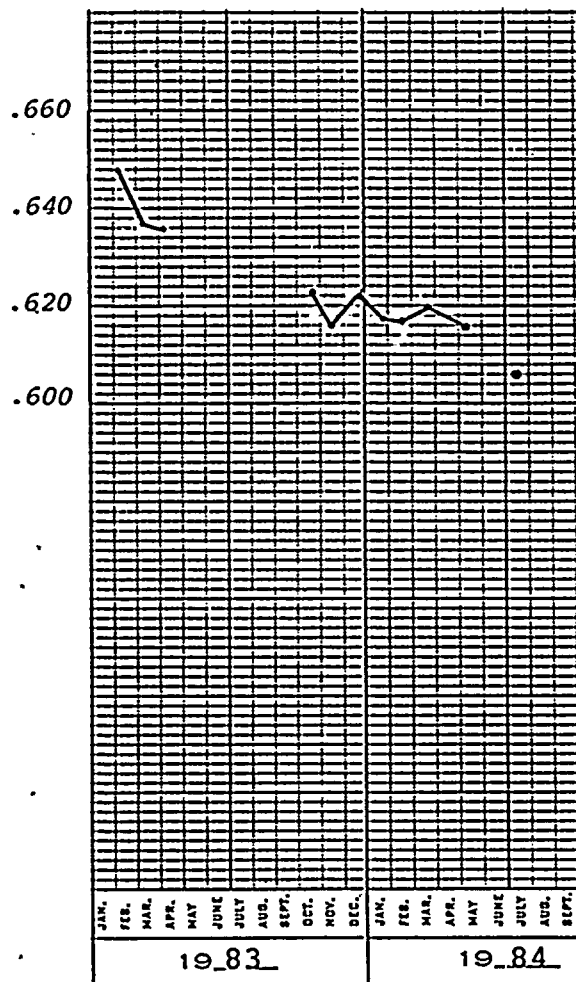
GAP GAGE G5A

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

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

FIGURE 43

DIAL GAGE READING IN INCHES



-.02
0
+.02
+.04

RELATIVE MOVEMENT IN INCHES FROM FIRST READING

CLOSING
↑
GAP
↓
OPENING

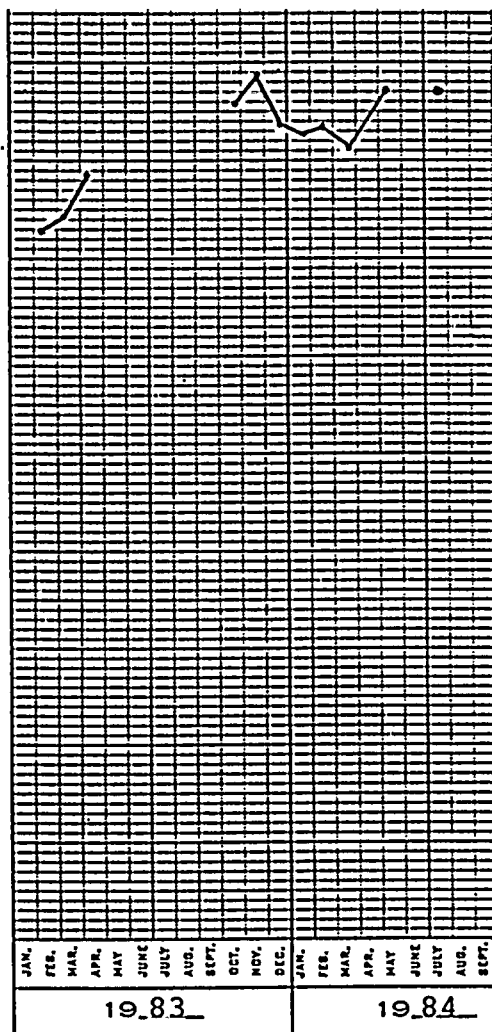
GAP GAGE, G4-SHEAR

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

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

DIAL GAGE READING IN INCHES

.580
.560
.540



-.04
-.02
0
+.02

RELATIVE MOVEMENT IN INCHES FROM FIRST READING

CLOSING
↑
GAP
↓
OPENING

GAP GAGE, G4 NORMAL,

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

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

FIGURE 41

DIAL GAGE READING IN INCHES

.590
.570
.550
.530
.510
.490
.470
.450
.430
.410
.390

SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
19_82												19_83												19_84												

-.08
-.06
-.04
-.02
0
+.02
+.04
+.06
+.08
+.10
+.12

RELATIVE MOVEMENT IN INCHES FROM FIRST READING

↑ CLOSING
↓ OPENING

GAP GAGE G5B

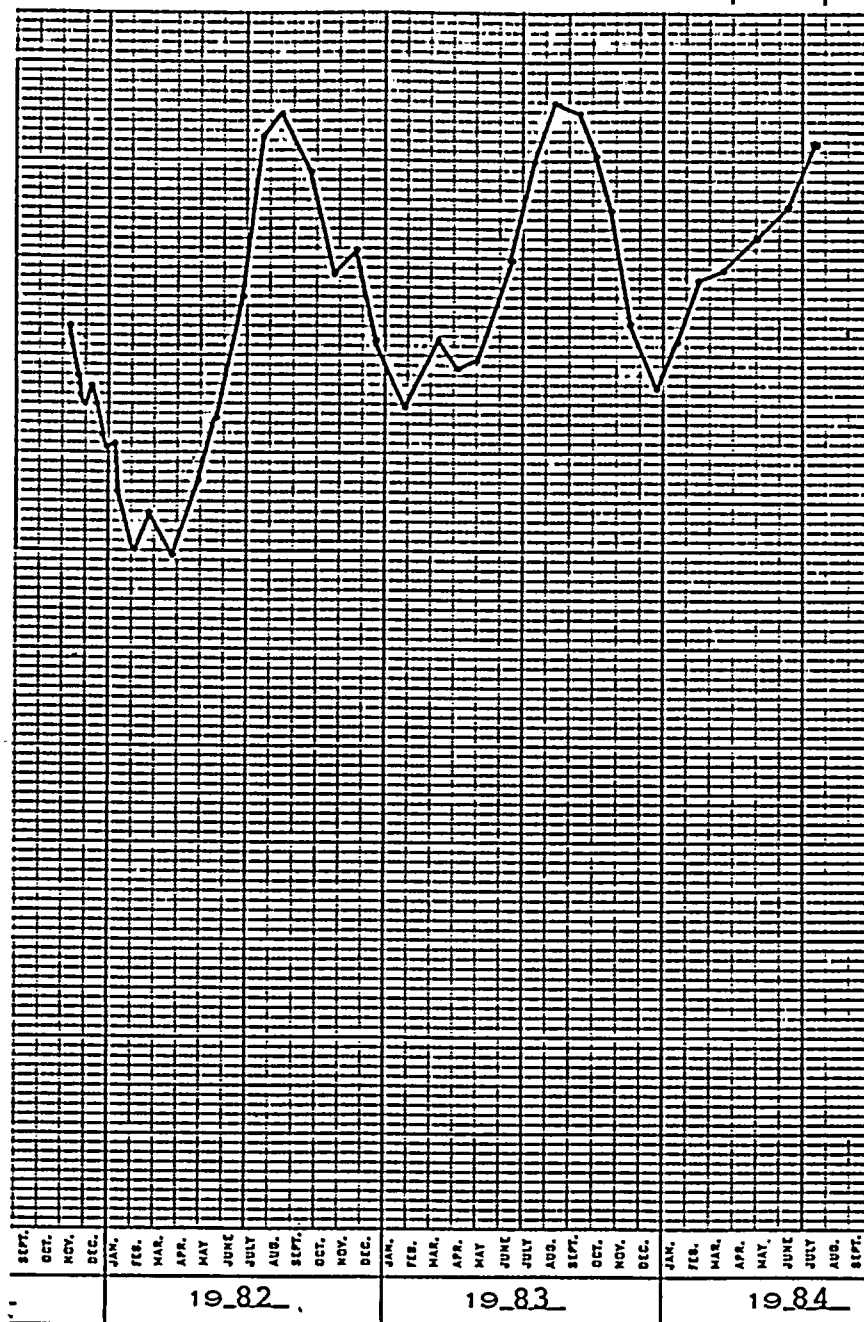
NOTE: Arrow indicates time period of data discussed in this report.

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

FIGURE 44

DIAL GAGE READING IN INCHES

.420
.400
.380
.360
.340
.320



-.04
-.02
0
+.02
+.04

RELATIVE MOVEMENT IN INCHES FROM FIRST READING

↑ CLOSING
GAP
↓ OPENING

GAP GAGE G6

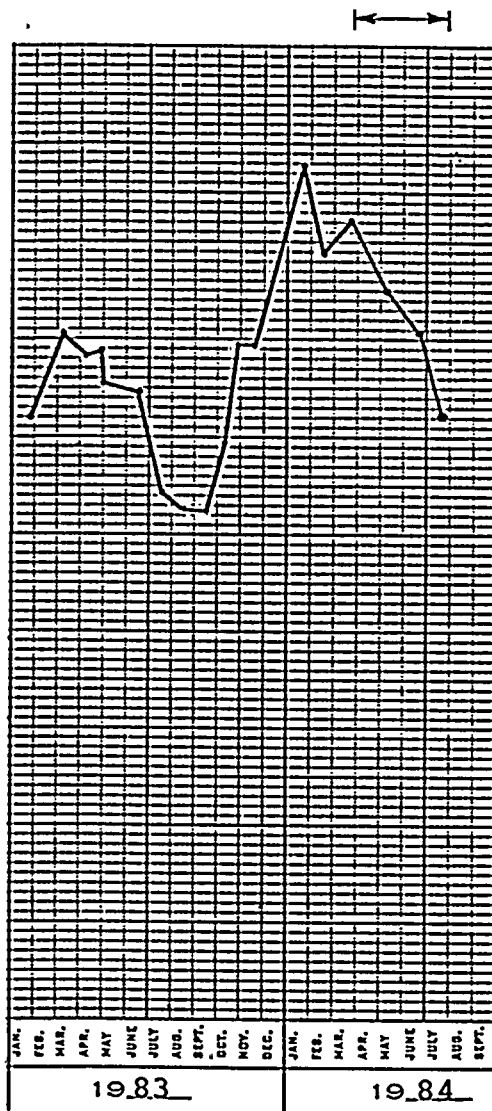
NOTE: Arrow indicates time period of data discussed in this report.

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

FIGURE 45

DIAL GAGE READING IN INCHES

.480
.460
.440
.420
.400



-.06
-.04
-.02
0
+.02

RELATIVE MOVEMENT IN INCHES FROM FIRST READING

CLOSING
↑
GAP
↓
OPENING

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

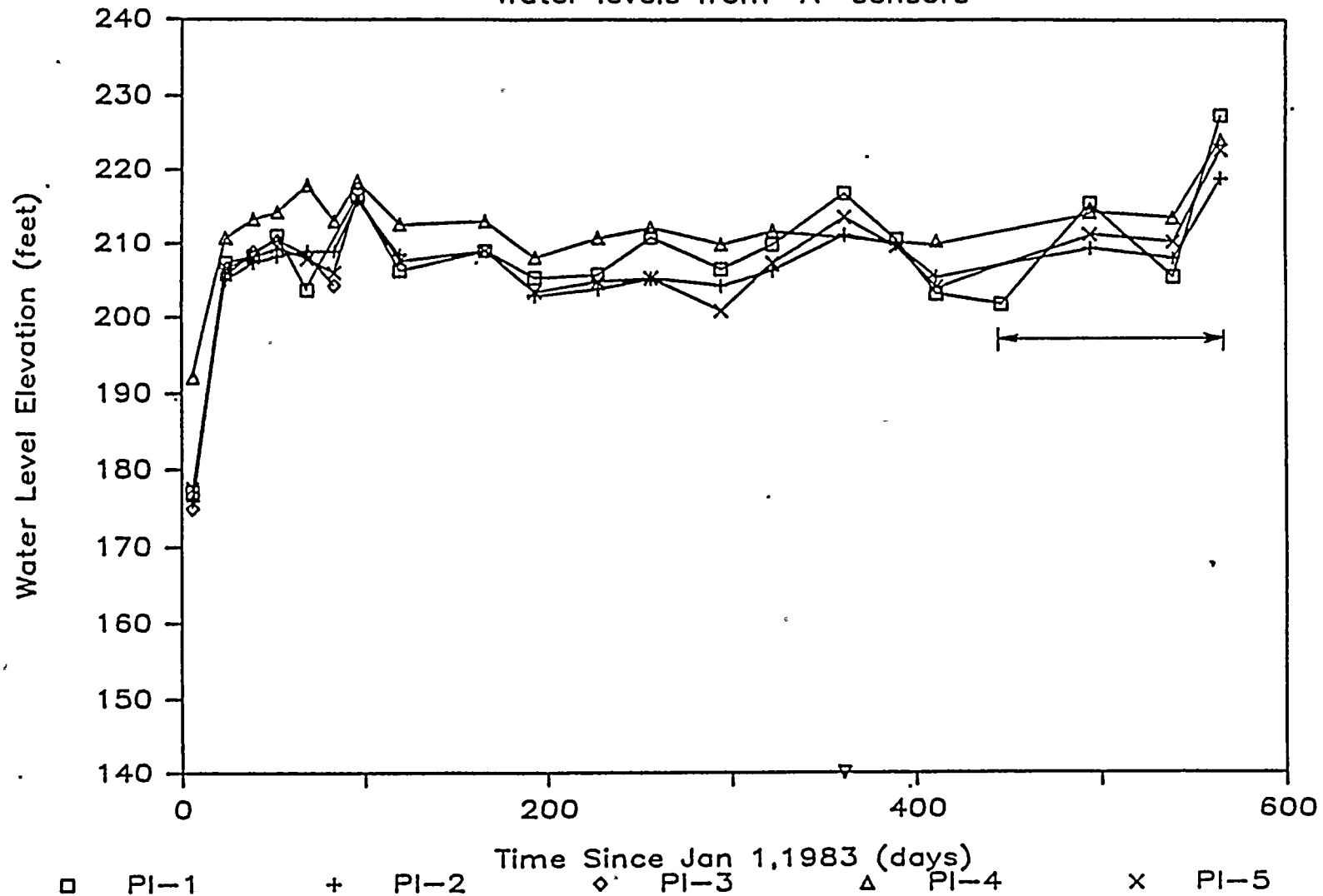
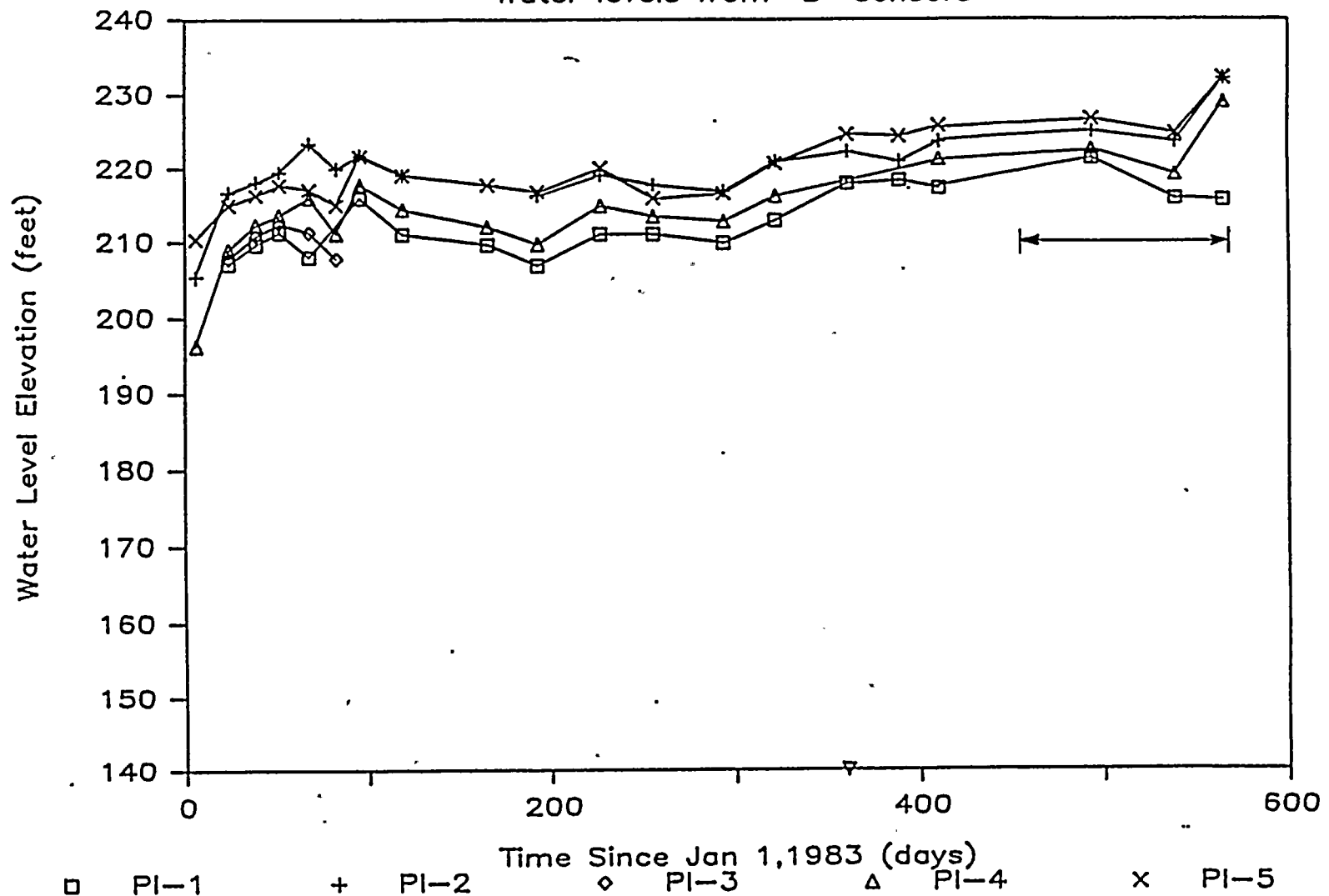


FIGURE 47

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

INTAKE SHAFT PIEZOMETERS

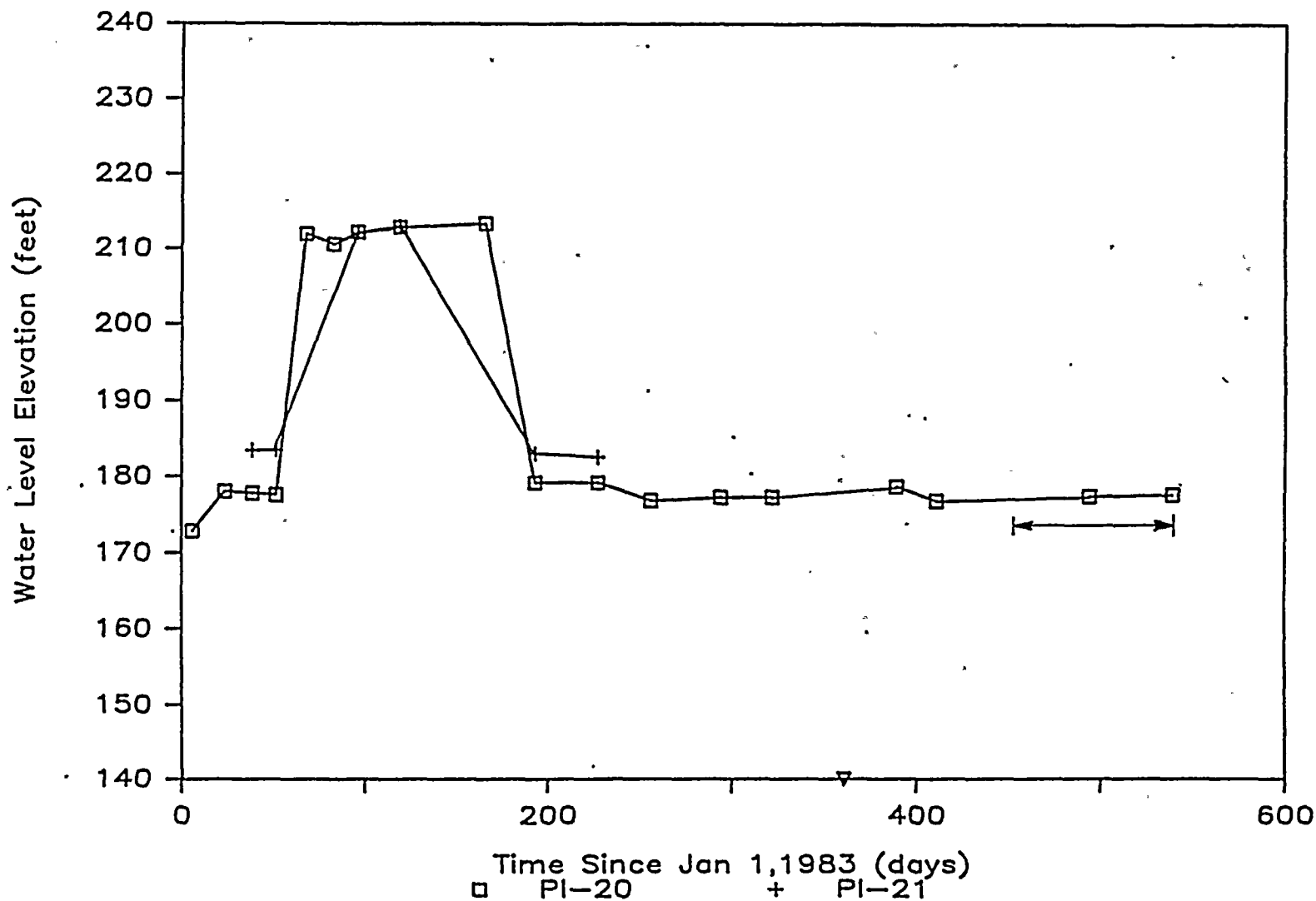
Water levels from "B" sensors



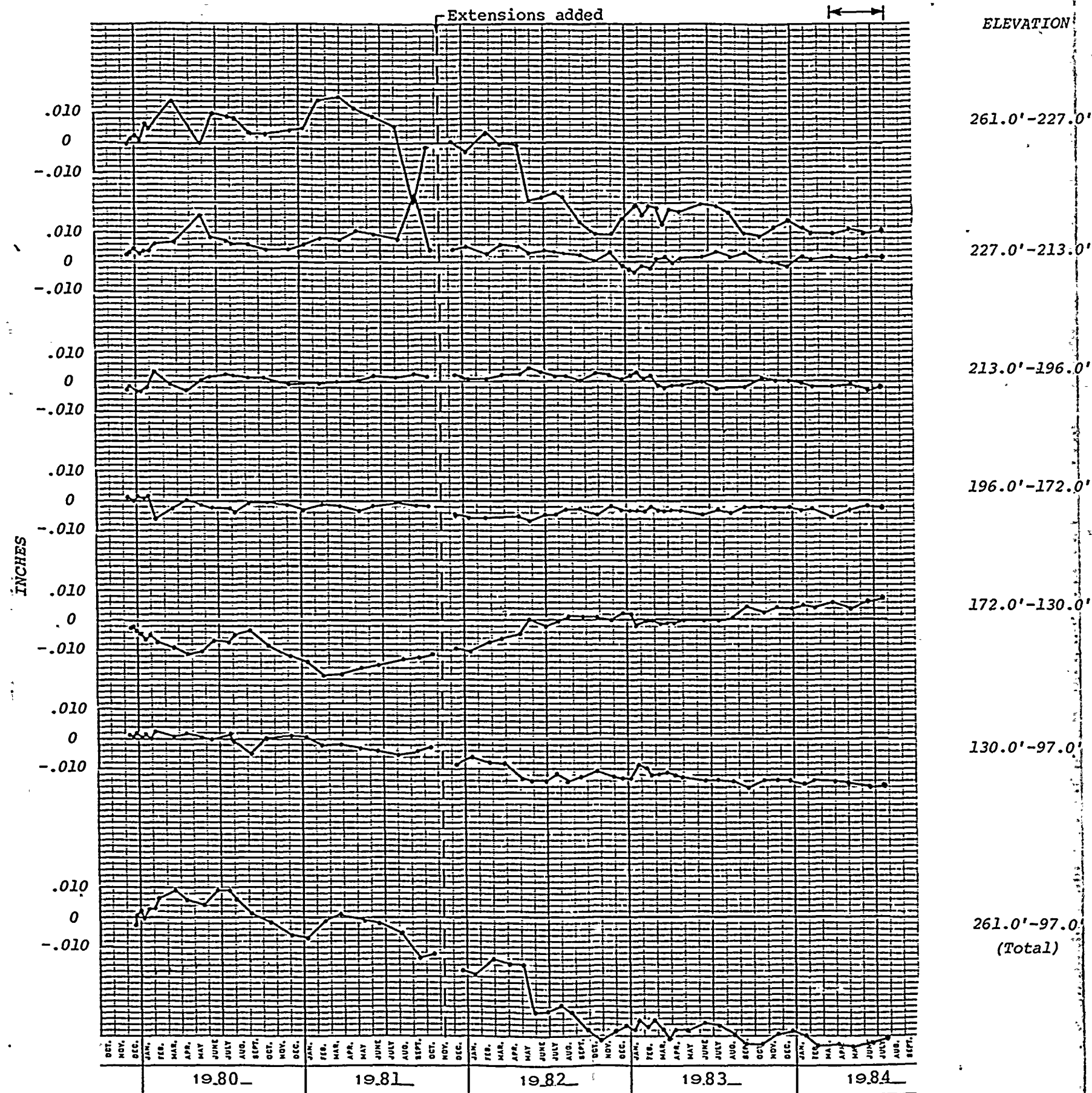
NOTE: Arrow indicates time period of data discussed in this report.

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

REACTOR PIEZOMETERS



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



ELEVATION

261.0'-227.0'

227.0'-213.0'

213.0'-196.0'

196.0'-172.0'

172.0'-130.0'

130.0'-97.0'

261.0'-97.0'
(Total)

TI
APERTURE
CARD

Also Available On
Aperture Card

EXTENSOMETER EX-1

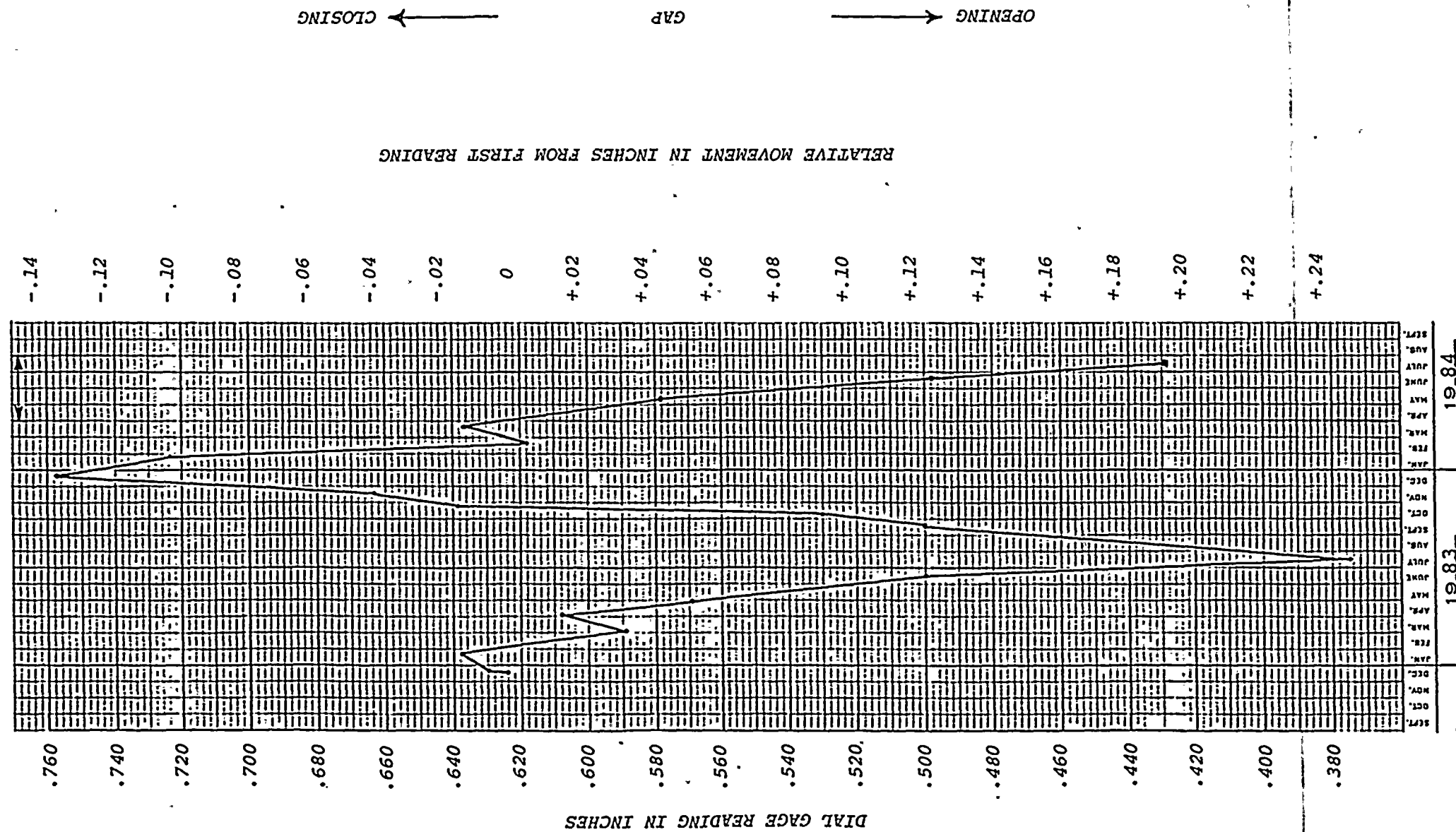
NINE MILE POINT NUCLEAR STATION
UNIT 2
NIAGARA MOHAWK POWER CORP.

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

8410240018-01 FIGURE 28

100-100000-100000

100-100000-100000



TI
APERTURE
CARD

Also Available On
Aperture Card

GAP GAGE G3 SHEAR.

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

8410240018-02

FIGURE 40

1944

1944



1944