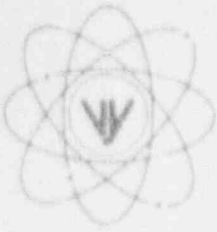


VERMONT YANKEE NUCLEAR POWER CORPORATION



Ferry Road, Brattleboro, VT 05301-7002

REPLY TO
ENGINEERING OFFICE
580 MAIN STREET
BOLTON, MA 01540
(508) 779-6711

September 18, 1992
BVY 92-113

United States Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

References: a. License No. DPR-28 (Docket No. 50-271)
b. Letter, VYNPC to USNRC, BVY 92-112, dated September 18, 1992

Subject: Supplemental Information Regarding VYNPC Response to Generic Letter 87-02,
Supplement 1 on SQUG Resolution of USI A-46

Dear Sir:

For your use, attached please find a package of supplemental technical information which you may find helpful in your review of Vermont Yankee's response to Generic Letter 87-02, Supplement 1 [Reference (b)].

Should you have any questions regarding this information, please do not hesitate to contact this office.

Very truly yours,

VERMONT YANKEE NUCLEAR POWER CORPORATION

Leonard A. Tremblay, Jr.
Leonard A. Tremblay, Jr.
Senior Licensing Engineer

Attachment 1: Vermont Yankee Reactor Building Sample ARS Curves
Attachment 2: Vermont Yankee Reactor Building Sample ARS Curves

cc: USNRC Region I Administrator (w/o Attachments)
USNRC Resident Inspector - VYNPS (w/o Attachments)
USNRC Project Manager - VYNPS (with Attachments)

9209290178 920918
PDR ADOCK 05000271
P PDR

A001
11

ATTACHMENT 1

VERMONT YANKEE REACTOR BUILDING

CONTENTS:

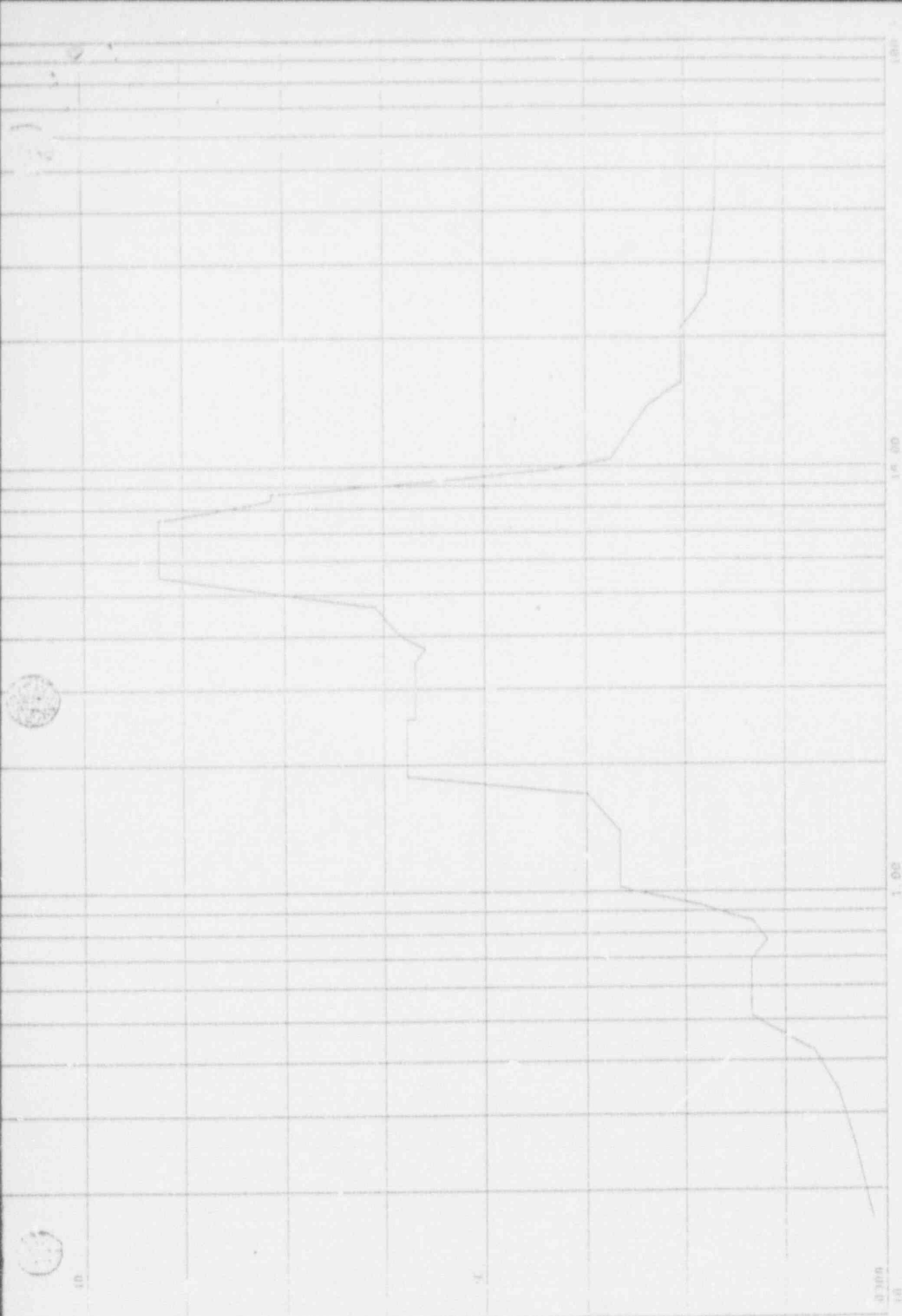
- Sample ARS curves for N-S, E-W, & Vertical Directions and 5% Equipment Damping:

The ground floor elevation 252.5 ft

Slab at elevation 318.7ft

Refueling Floor at elevation 345.7

Note: These curves are for the OBE (DBE), use twice the values shown for SSE.



FREQUENCY (CPS)

ENVELOPE - Y.A.E.C. REACTOR BLDG APS (N-S) TAFT, OBE . EL 252 5' D=5 0%

ACCELERATION (G's)

ATTACHMENT 1
1 of 9

ACCELERATION (G'S)

ATTACHMENT 1
2 of 9

40

20

0.000
1.0

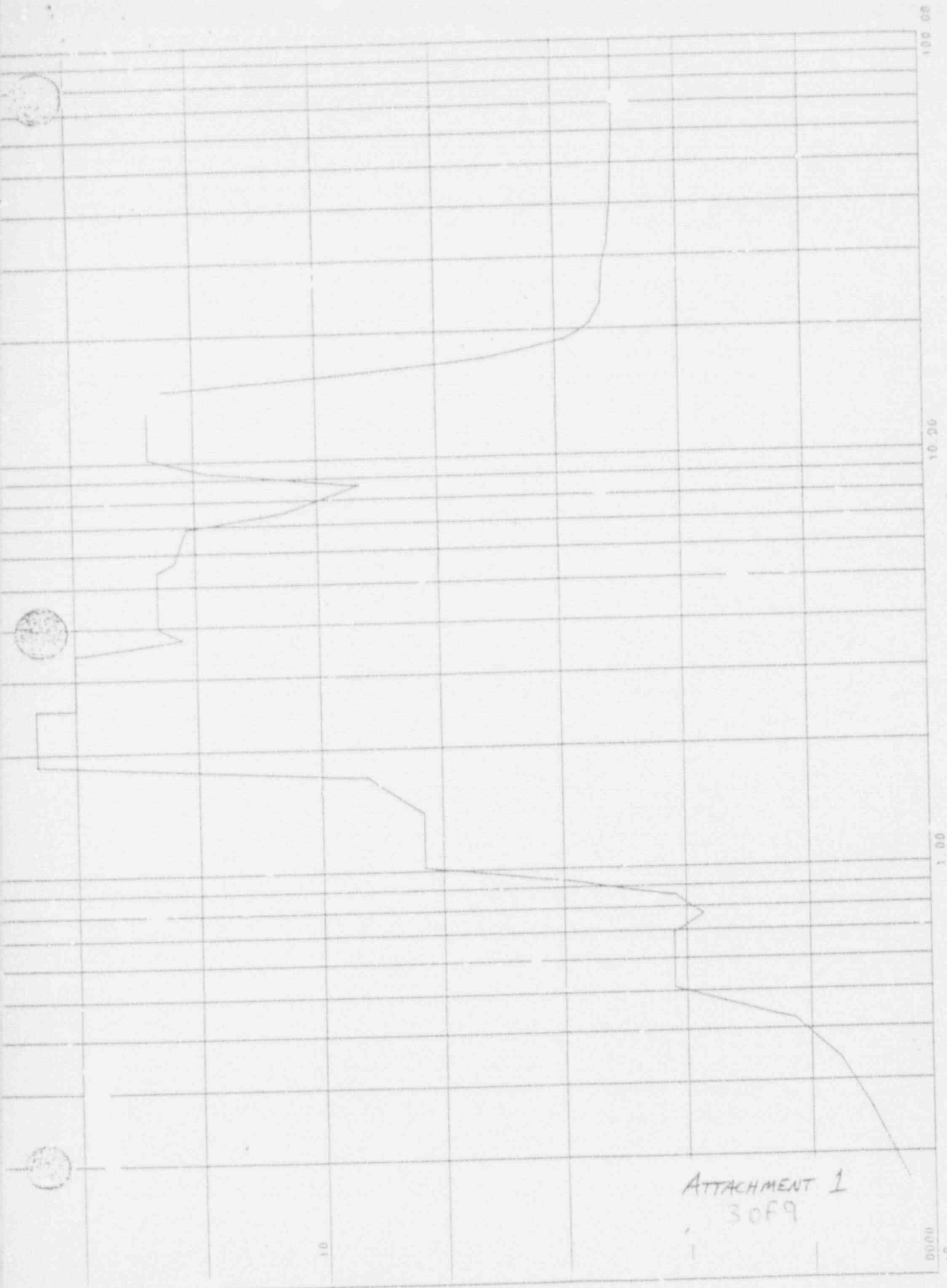
1.00

10.00

100.0

F R E Q U E N C Y (C P S)

ENVELOPE ... Y. A. E. C. REACTOR BLDG ARS (E-W) TAFT. OBE . EL. 252.5' D=5.0%



ATTACHMENT 1
30F9

ENVELOPE - Y A E C. REACTOR BLDG ARS (VT) TAFT, OBE, EL. 252.5' D=5.0%

1.00

5.0

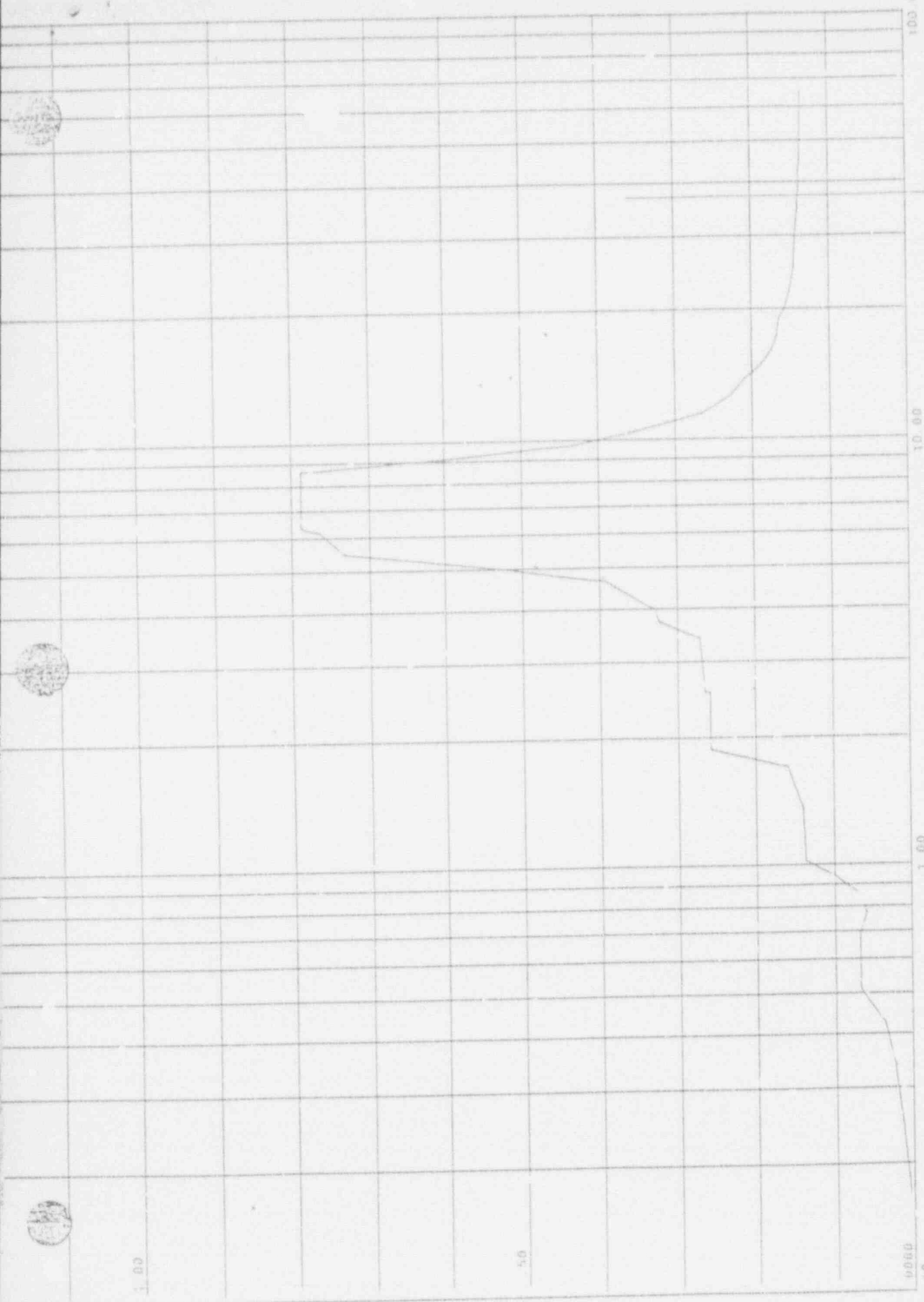
10.00
100.00

ACCELERATION (G'S)

FREQUENCY (CPS)

ENVELOPE - Y.A.E.C. REACTOR BLDG. ARS (N-S) TAFT. OBE. EL. 318.7' D=5.0%

ATTACHMENT 1
9 of 9



1.00

.50

0.000

1.00

10.00

10.00

100.00

ACCELERATION (G'S)

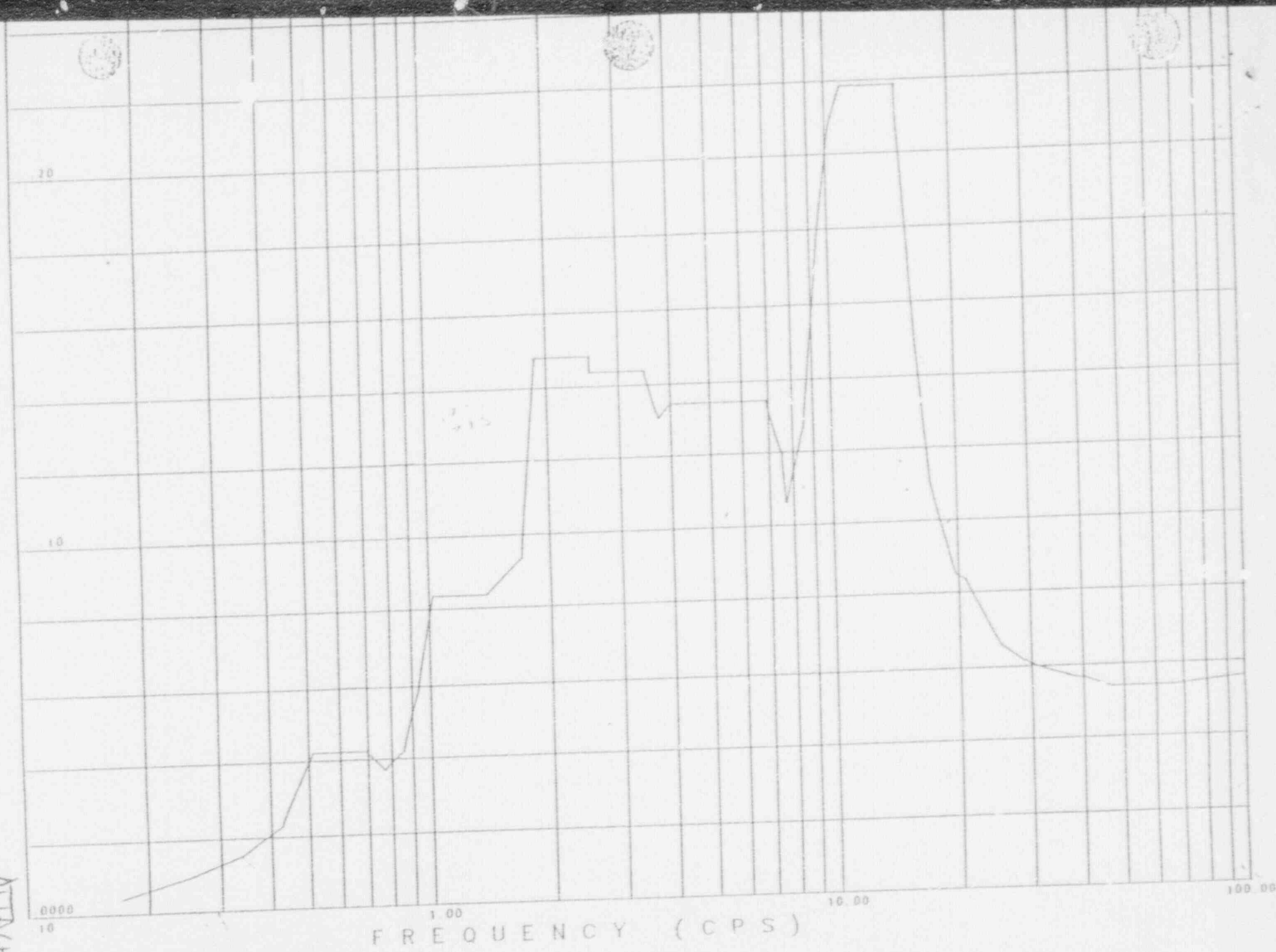
FREQUENCY (CPS)

ENVELOPE - Y.A.E.C. REACTOR BLDG. ARS (E-W) TAFT, OBE. EL. 318.7' D=5.0%

ATTACHMENT 1
5 of 9

ACCELERATION (G'S)

ATTACHMENT 1
6 of 9



ENVELOPE - Y.A.E.C. REACTOR BLDG. ARS (VT.) TAFT. OBE. EL. 318.7' D=5.0%

ACCELERATION (G'S)

ATTACHMENT 1
7 of 9

1.00

50

0.000
1.0

1.00

10.00

100

F R E Q U E N C Y (C P S)

ENVELOPE - Y.A.E.C. REACTOR BLDG ARS (N-S) TAFT, OBE EL. 345.7' D=5.0%

SCALE: 1" = 100' (VERT) 1" = 100' (HAT)

ACCELERATION (G'S)

ATTACHMENT 1
8 of 9

1.00

50

10
0.006

10.00

1.00

100.00

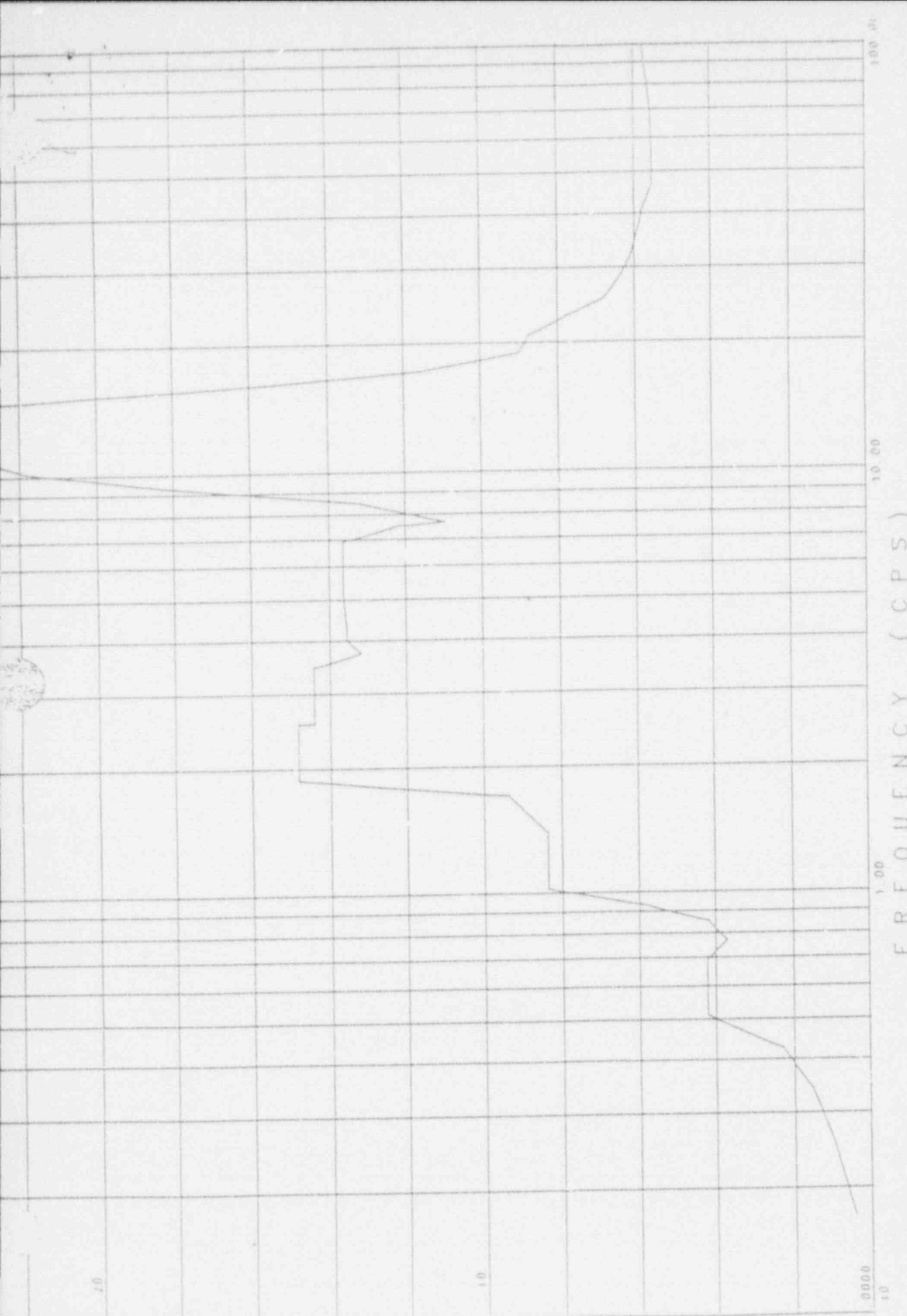
FREQUENCY (CPS)

ENVELOPE - Y.A.E.C. REACTOR BLDG. ARS (E-W) TAFT, OBE. EL. 345.7' D=5.0%

17/06/R4

V6074

FRAME



ENVELOPE - Y A. E. C. REACTOR BLDG. ARS (VT) TAFT. OBE . EL. 345.7' D=5.0%

ATTACHMENT 1
909

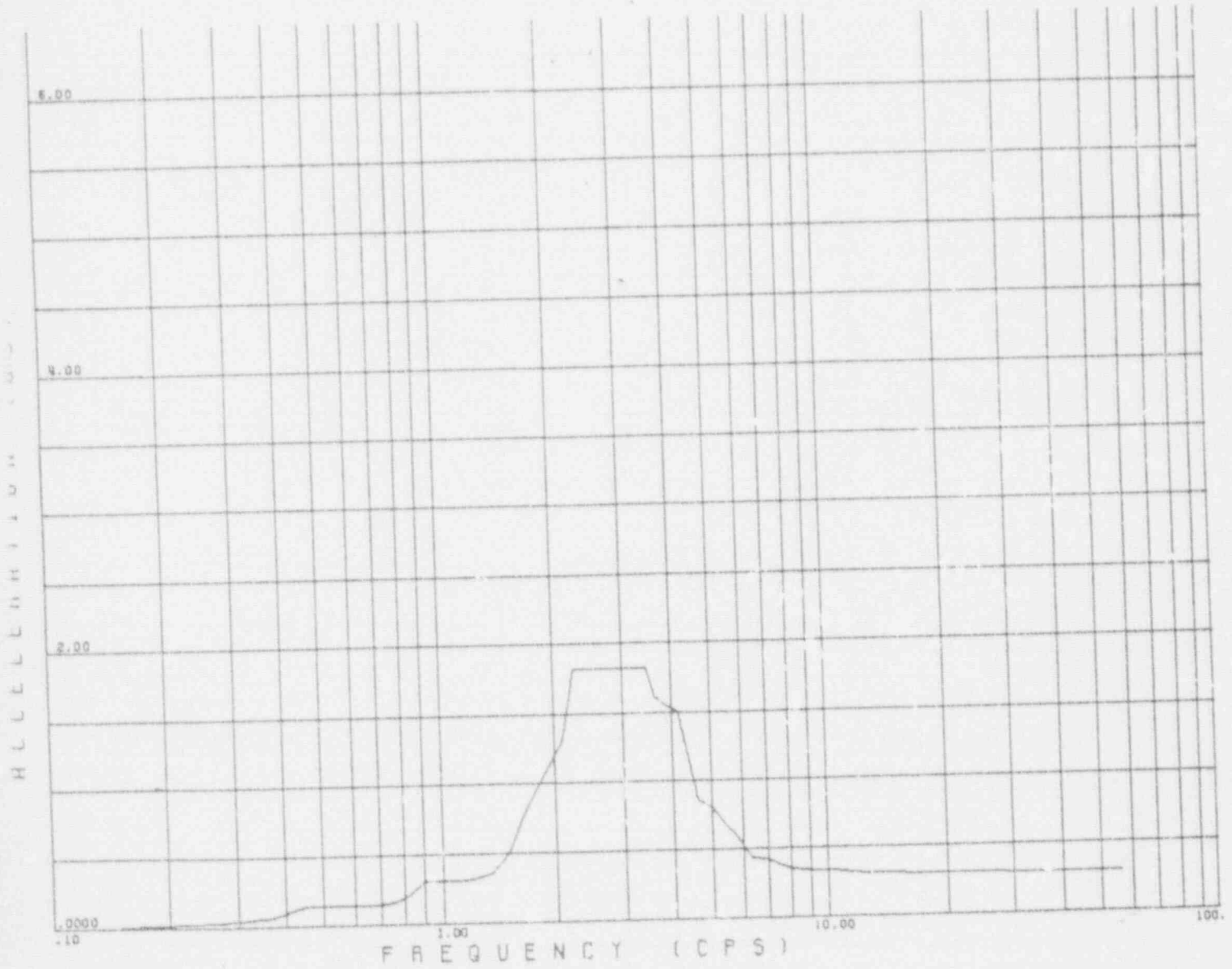
ATTACHMENT 2

VERMONT YANKEE CONTROL BUILDING

CONTENTS:

- ARS curves for Taft SSE: N-S, E-W, & Vertical Directions and 5% Equipment Damping:
For elevations 246.25', 262.5', 272.5', and 290.0'.

DAMPING = .0500



Y.R.E.C. CONTROL BLDG. (N-S) SSE. TAFT TH. NODAL PT. 5 EL. 246.25'

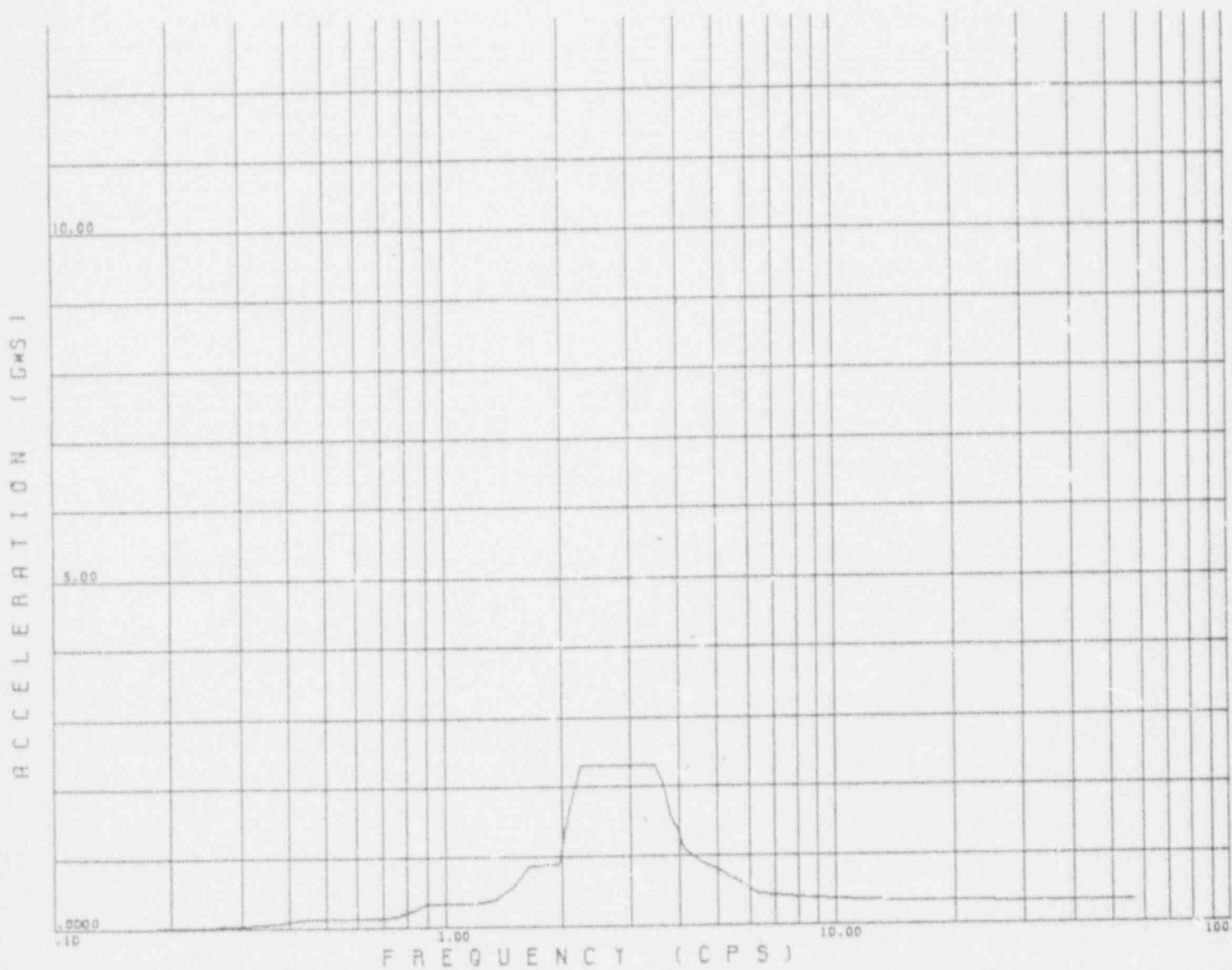
CE802/83-9 X1123 01/31/86

FRAME 6

ATTACHMENT 2
1 of 12

01 ;

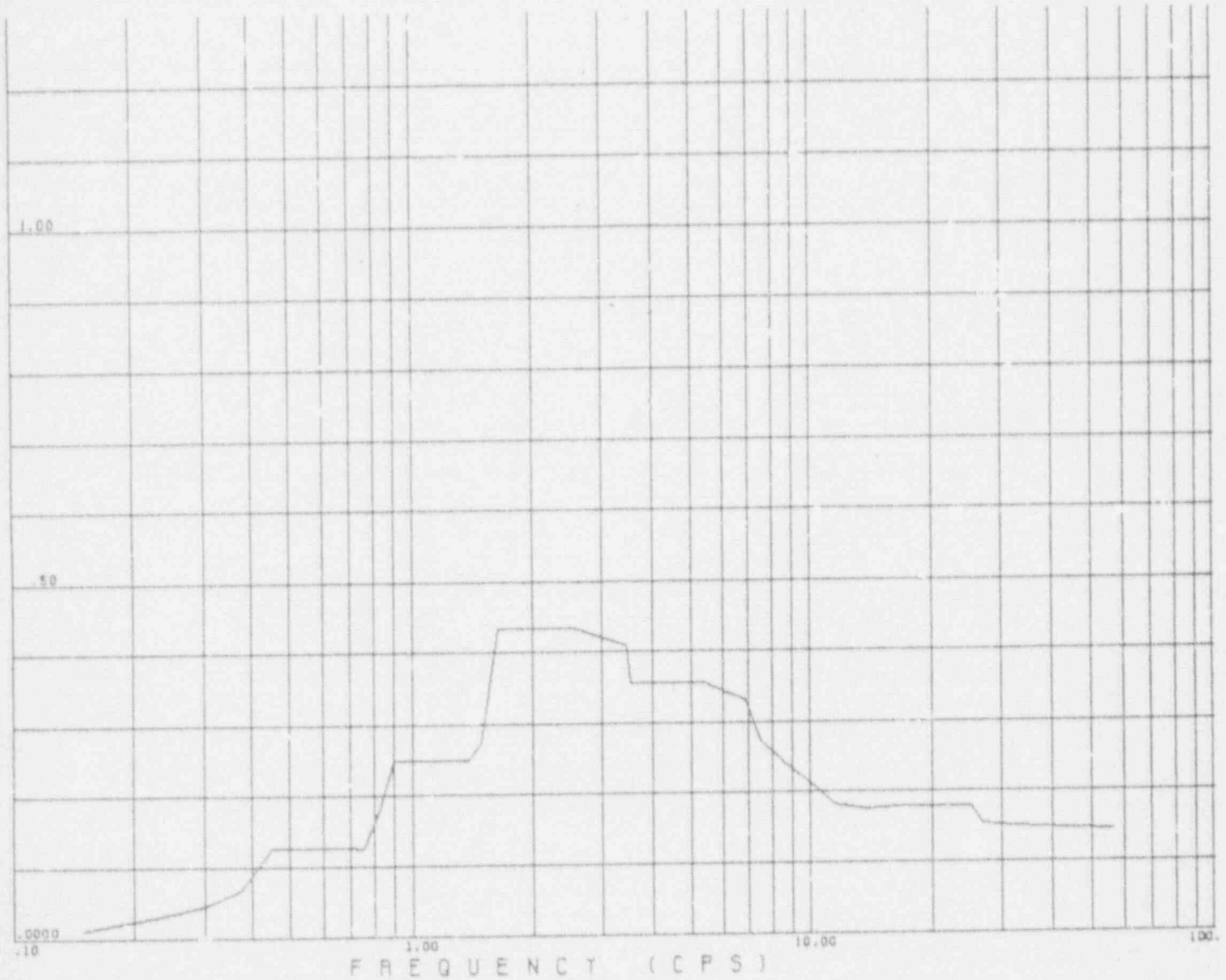
DAMPING = .0500



Y.A.E.C. CONTROL BLDG. (E-W) SSE. TAFT TH. NODAL PT. 5 EL. 246.25'

01

DAMPING = .0500

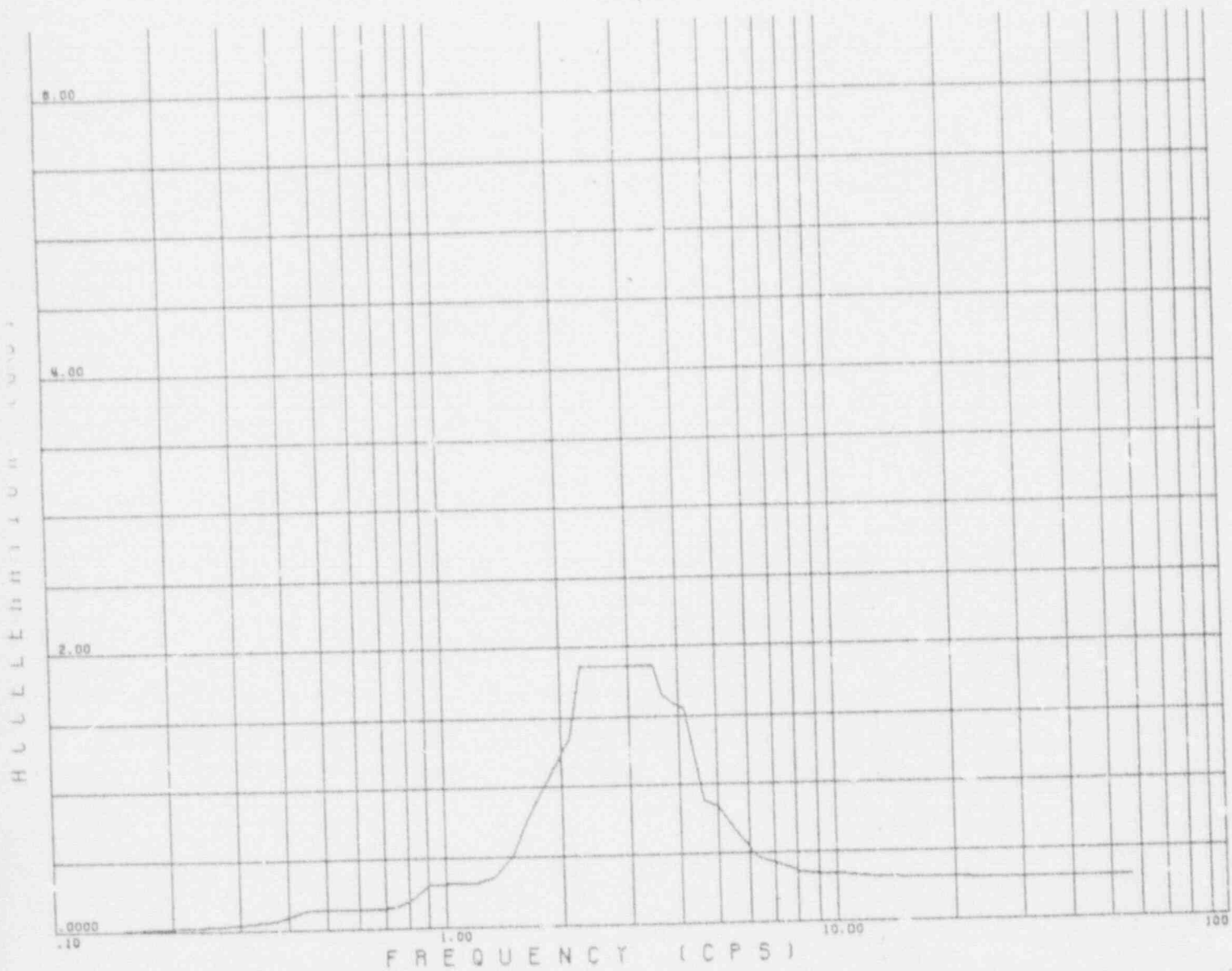


Y.A.E.C. CONTROL BLDG. (VER) SSE. TAFT TH. NODAL PT. 5 EL. 246.25'

ATTACHMENT 2
3 of 12

01

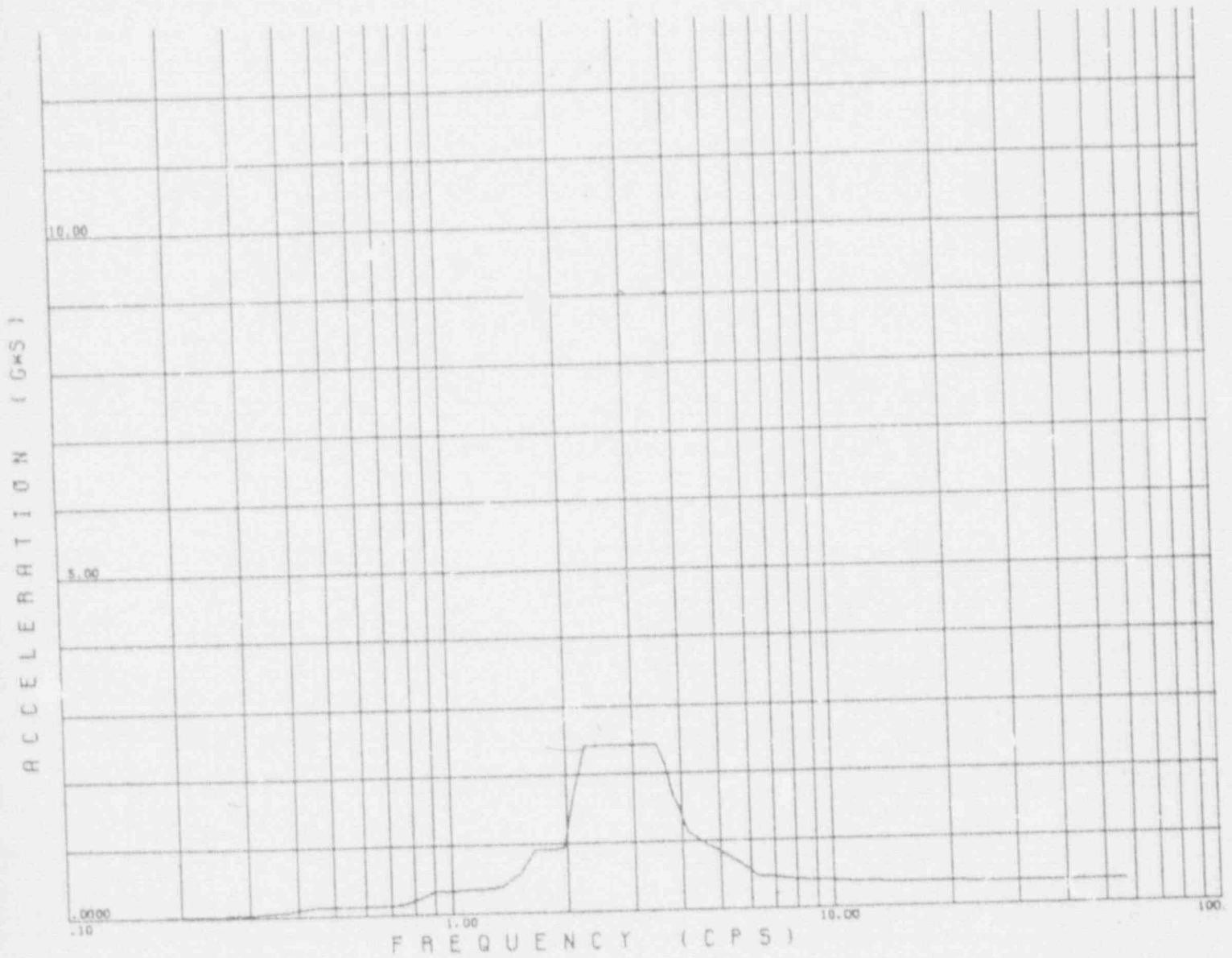
DRAWING # .0500



Y.R.E.C. CONTROL BLDG. (N-S) SSE, TAFT TH, NODAL PT. 6 EL. 262.5'

01 3

DAMPING = .0500



Y.A.E.C. CONTROL BLDG. (E-W) SSE. TAFT TH. NODAL PT. 6 EL. 262.5'

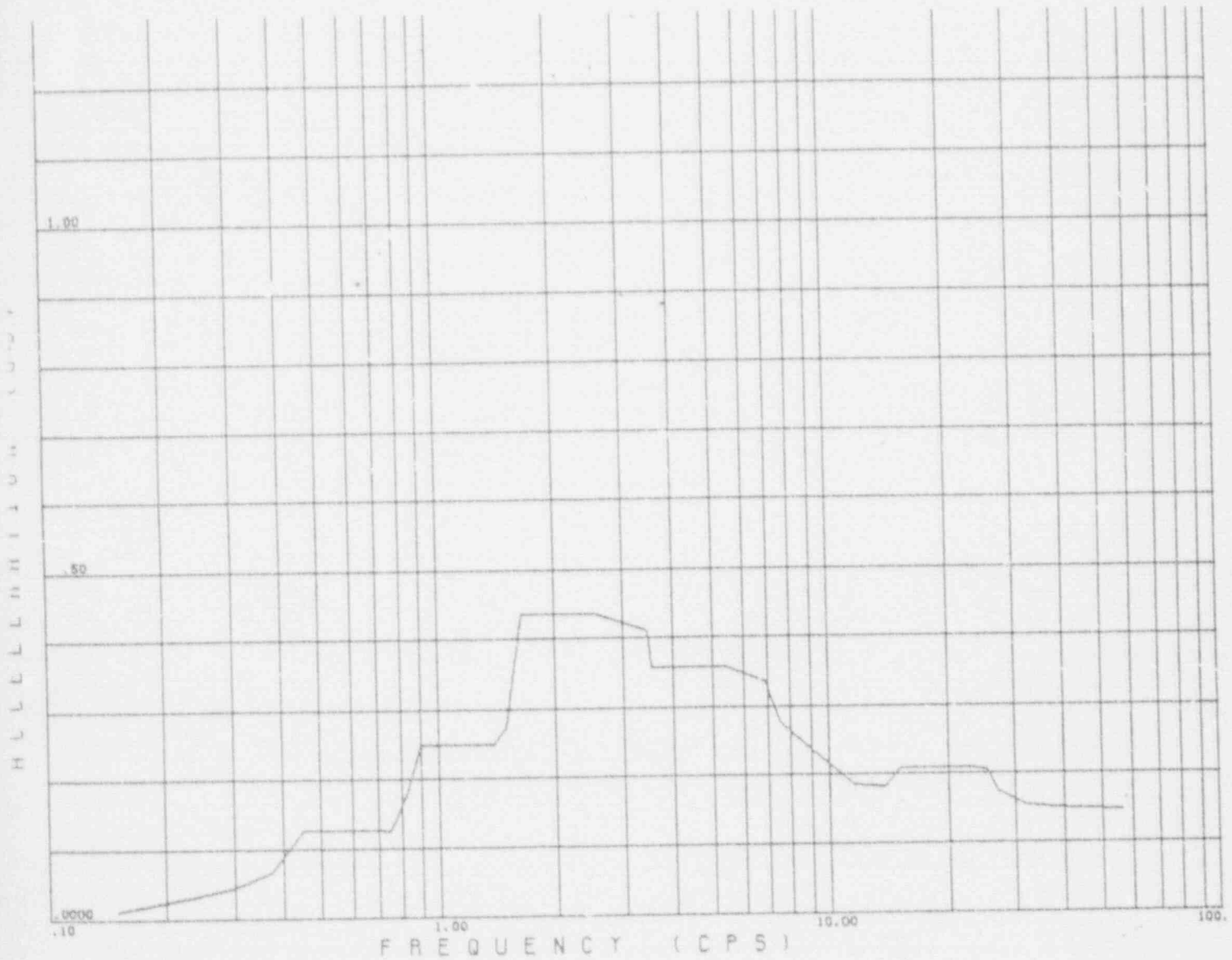
CE802/G3-W X1188 01/31/88

FRAME 13

ATTACHMENT 2
SOF12

01

DAMPING = .0500



Y.A.E.C. CONTROL BLOG. (VERI SSE, TAFT TH. NODAL PT. 6 EL. 262.5')

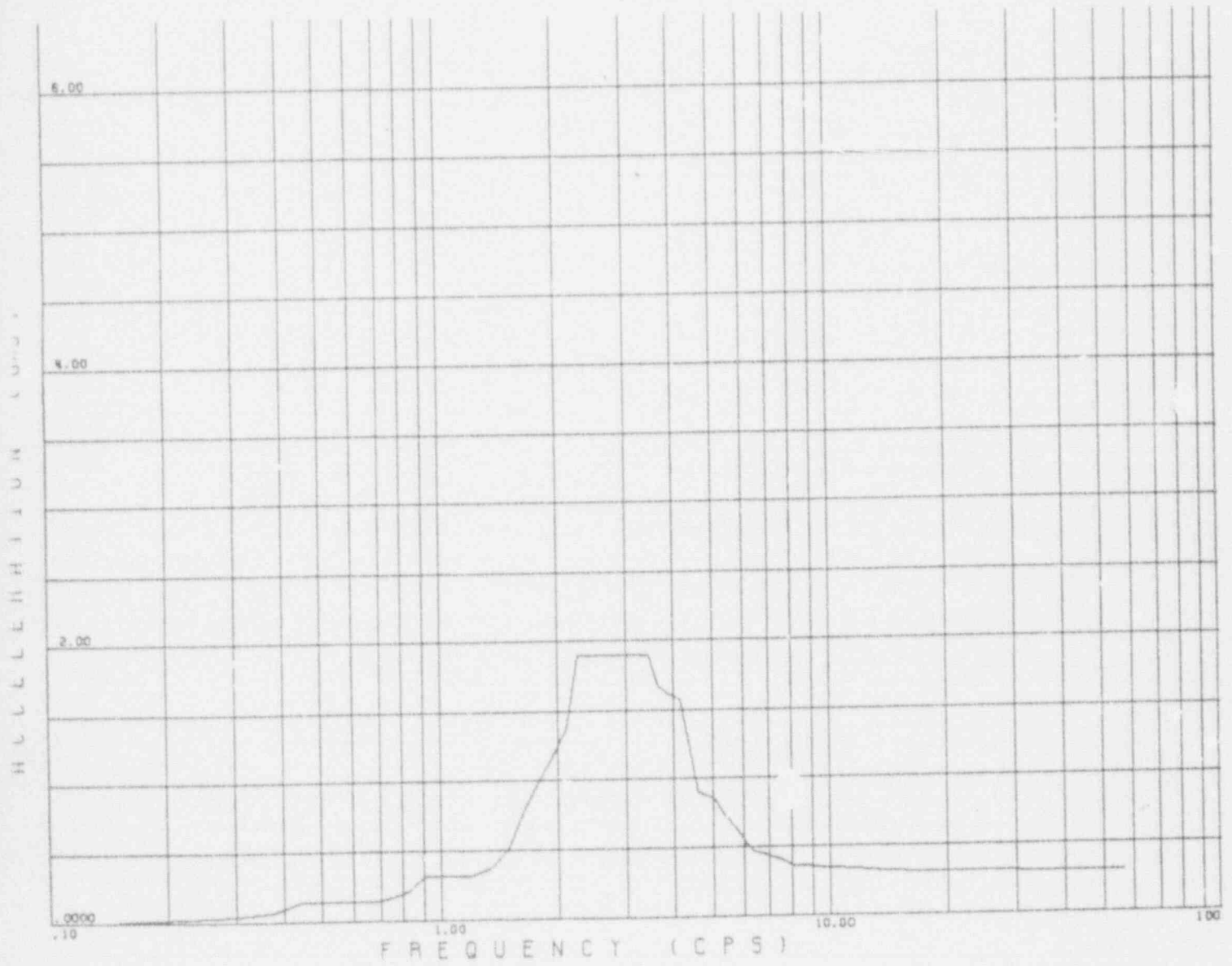
CE802/03-9 X1201 01/31/88

FRAME 15

ATTACHMENT 2
6 of 12

01 :

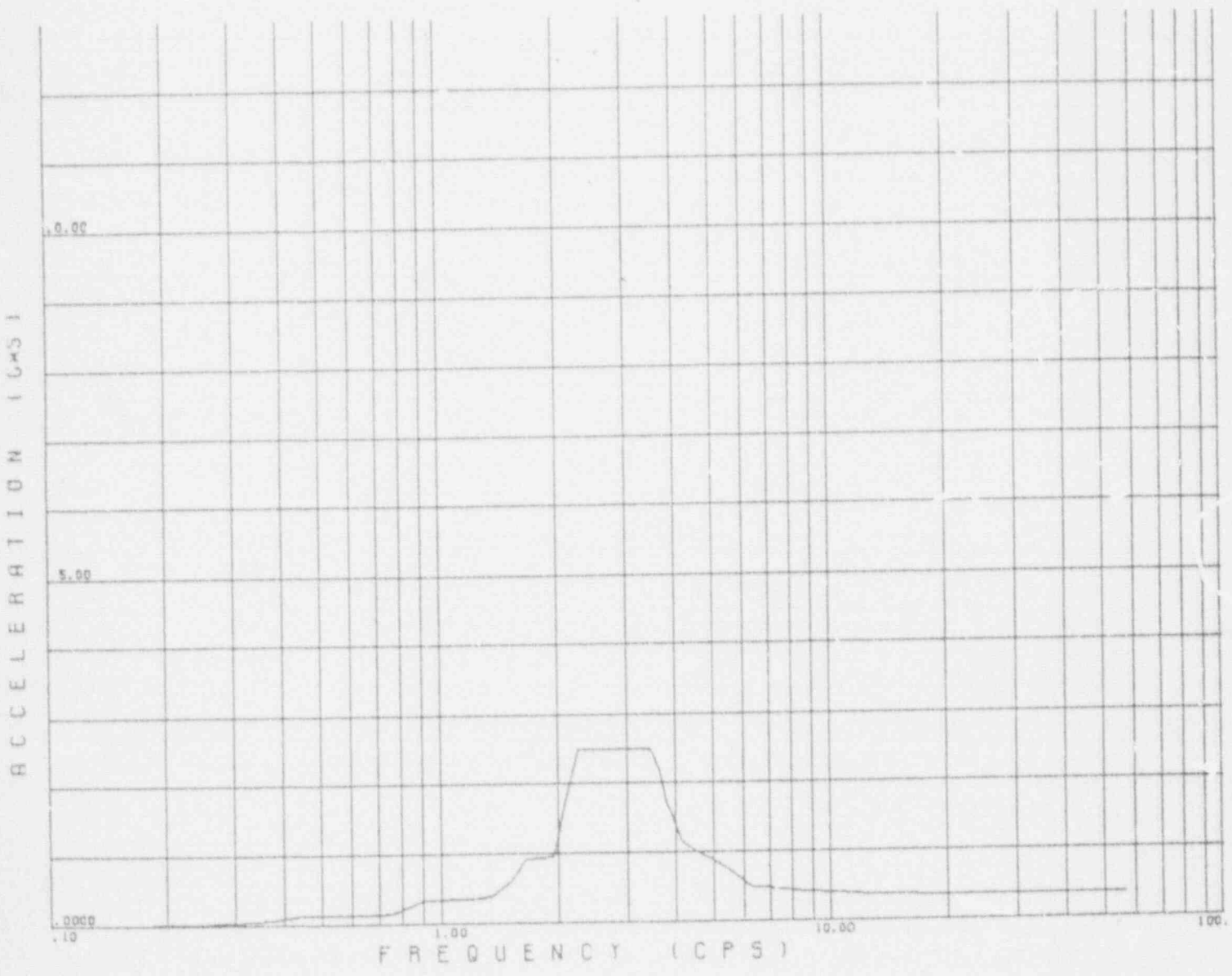
DAMPING = .0500



Y.R.E.C. CONTROL BLDG. (N-S) SSE. TAF (TH. NODAL PT. 7 EL. 272.5' ATTACHMENT 2
7 of 12

0120

DAMPING = .0500

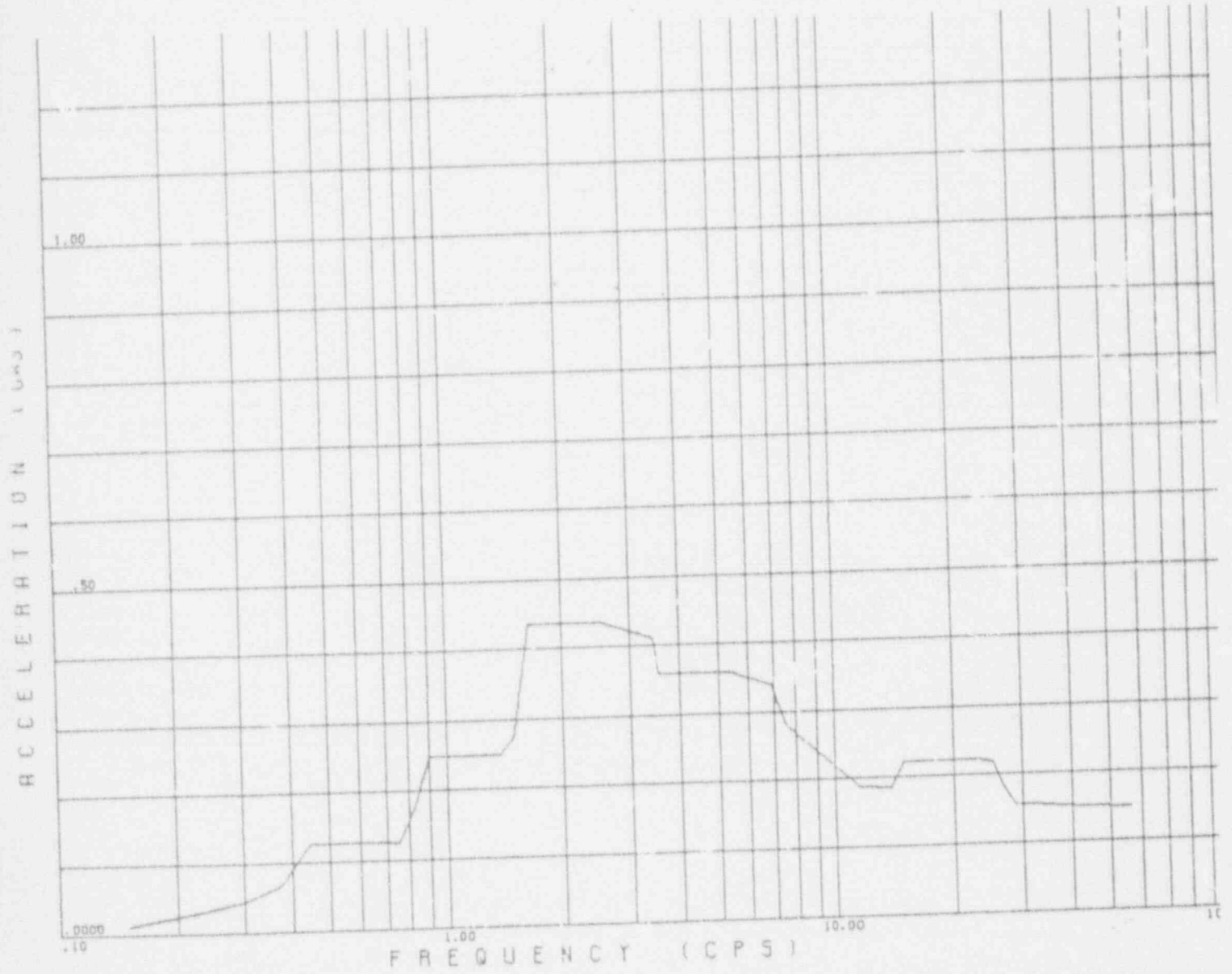


Y.A.E.C. CONTROL BLDG. (E-W) SSE. TAFT TH. NODAL PT. 7 EL. 272.5'

ATTACHMENT 2
8 of 12

01

DAMPING = .0500



Y.A.E.C. CONTRL BLDG. (VER) SSE, TAFT TH, NODAL PT. 7 EL. 272.5'

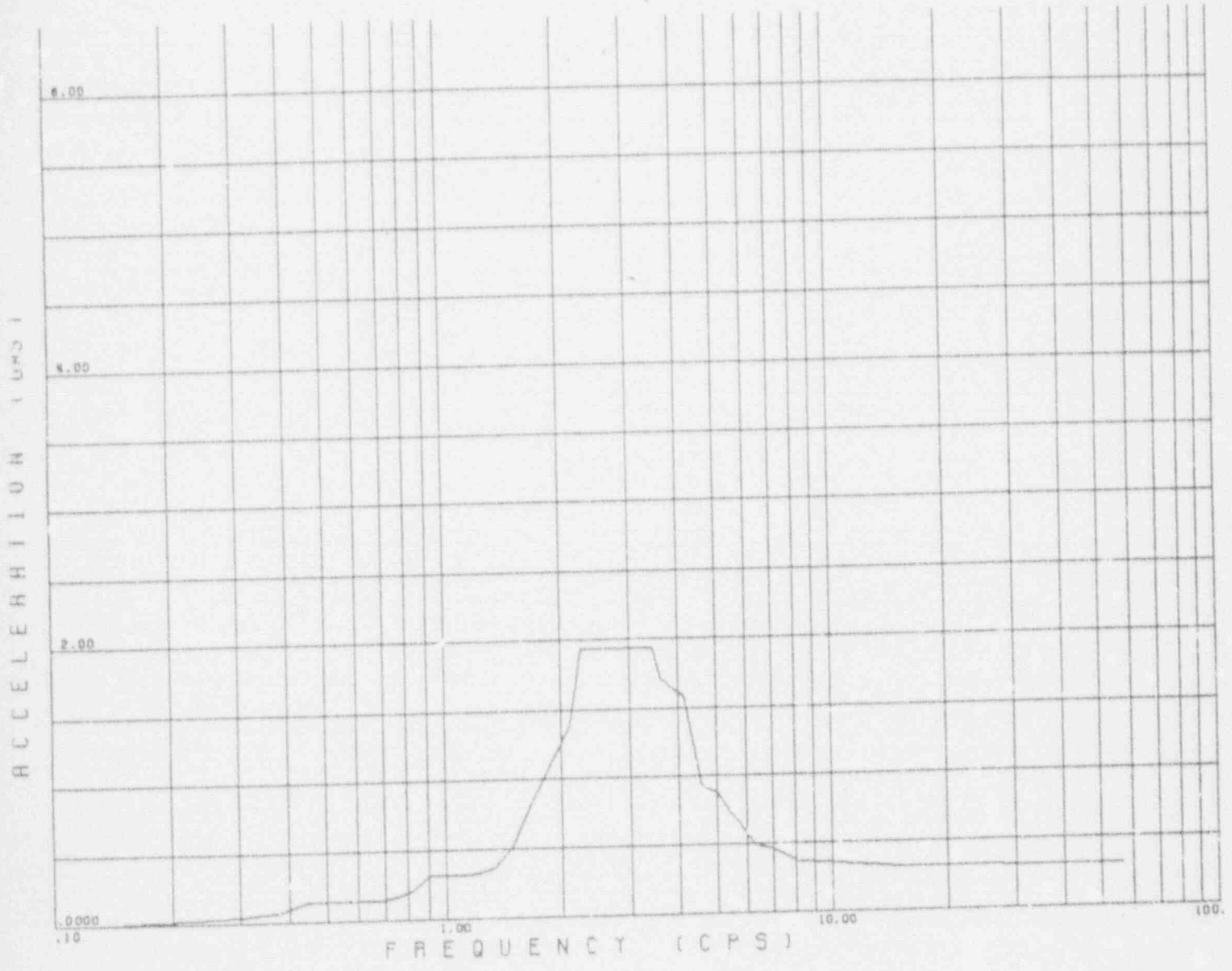
CE802/03-9 X1201 01/31/86

PAGE 20

ATTACHMENT 2
9 of 12

01 +

DAMPING = .0500

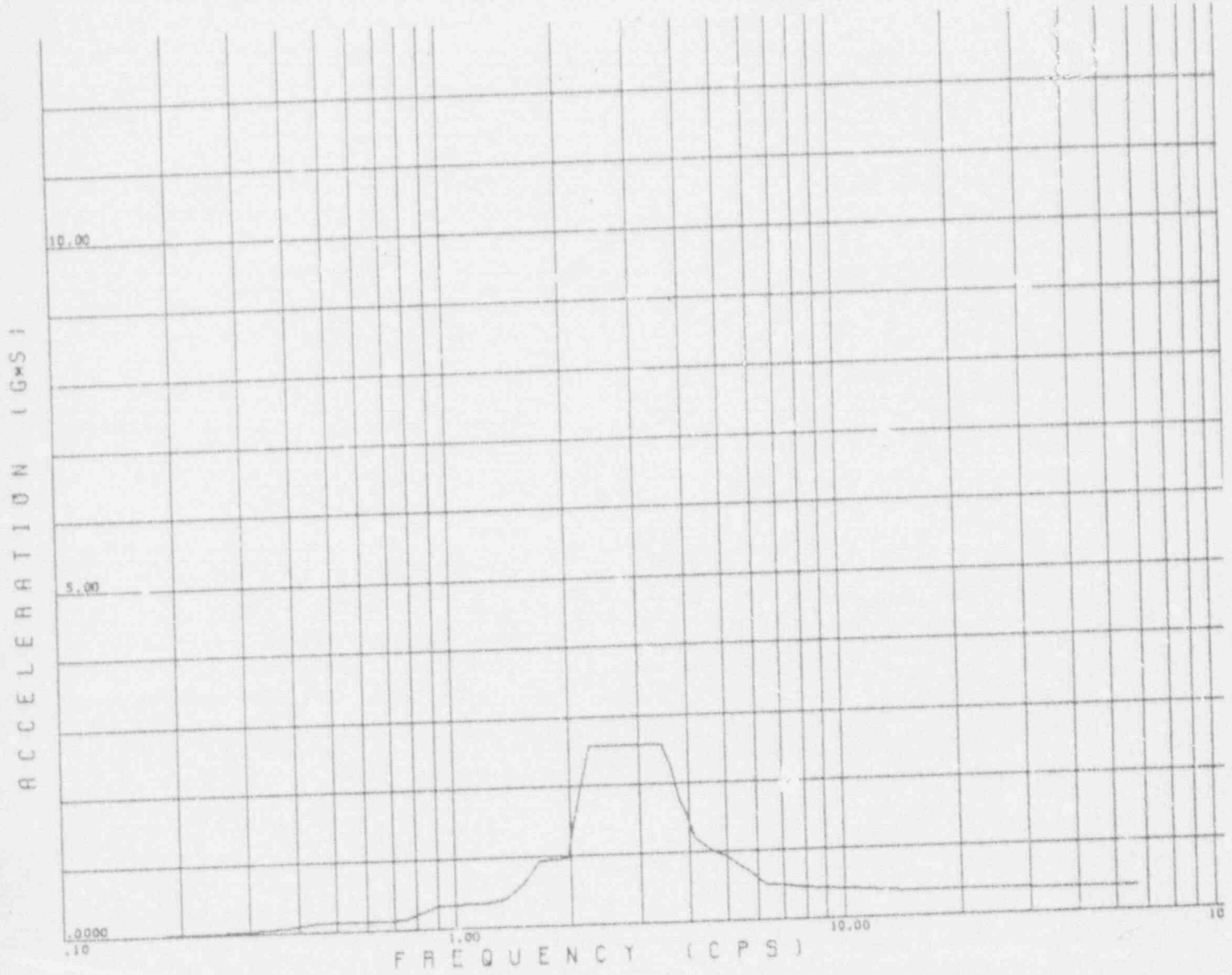


Y.A.E.C. CONTROL BLDG. (N-S) SSE. TAFT TH. NODAL PT. 8 EL. 290.0'

ATTACHMENT 2
10 of 12

01

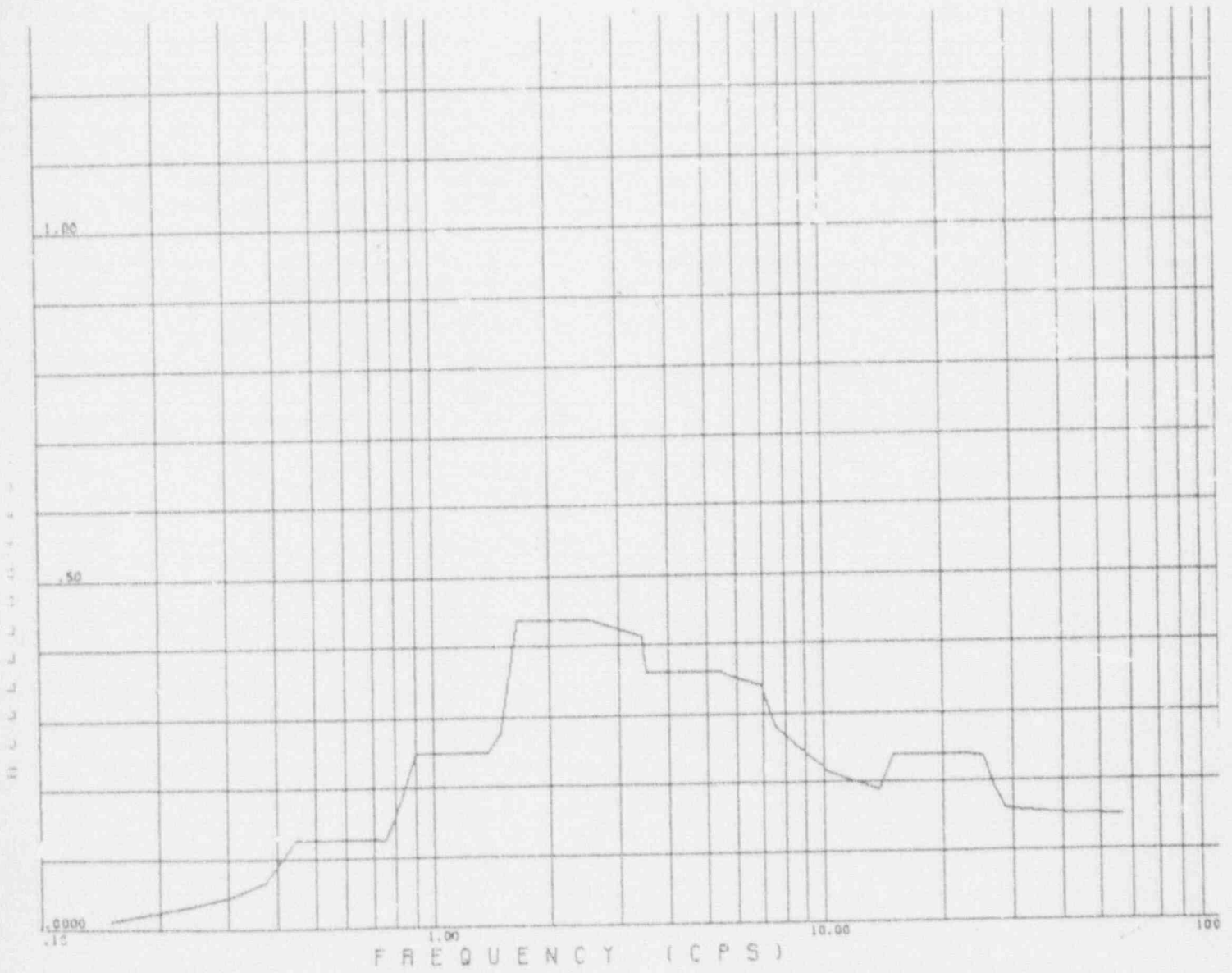
DAMPING = .0500



Y.A.E.C. CONTROL BLDG. (E-W) SSE. TAFT TH. NODAL PT. 8 EL. 290.0'

01

DAMPING = .0500



Y.A.E.C. CONTROL BLDG. (VER) SSE. TAFT TH. NODAL PT. B EL. 290.0'

ATTACHMENT 2
12 of 12