

SEISMIC OBE AND SSE  
REQUIRED RESPONSE SPECTRA (RRS)  
FOR THE REACTOR BUILDING

RIVER BEND STATION - UNIT 1  
GULF STATES UTILITIES COMPANY  
WEST FELICIANA PARISH, LOUISIANA

STONE & WEBSTER ENGINEERING CORPORATION  
CHERRY HILL OPERATIONS CENTER  
CHERRY HILL, NEW JERSEY

TABLE OF CONTENTS  
 REQUIRED RESPONSE SPECTRA (RRS)

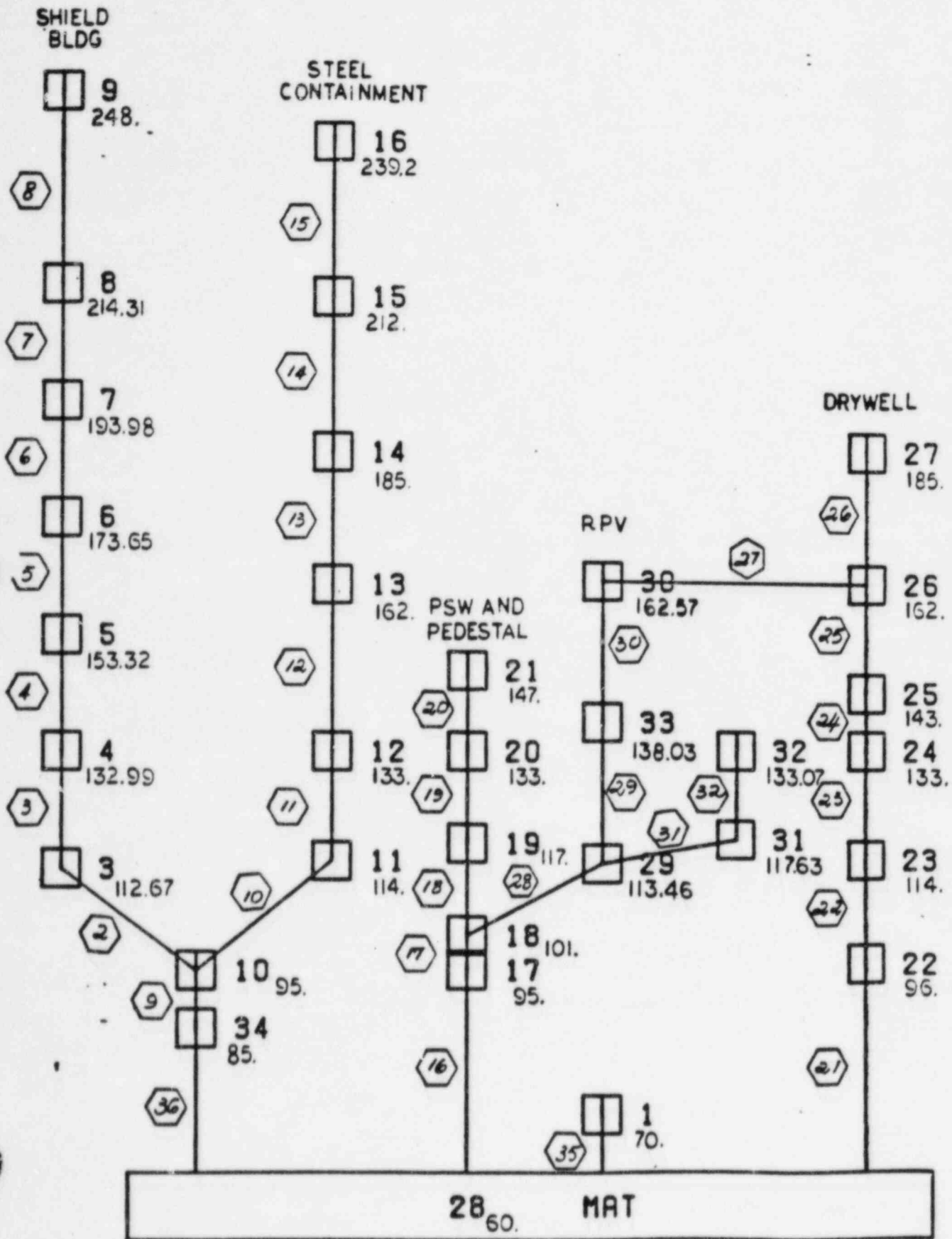
<u>Mass Point - Location</u>	<u>Elevation (ft)</u>	<u>Reference No.*</u>
28 - Mat	60.00	69
1 - Top of Mat	70.00	70
3 - Shield Building	112.67	71
4 -	132.99	72
5 -	153.32	73
6 -	173.65	74
7 -	193.98	75
8 -	214.31	76
9 -	248.00	77
10 - Comp. Shield Building	95.00	78
34 -	85.00	79
11 - Steel Containment	114.00	80
12 -	133.00	81
13 -	162.00	82
14 -	185.00	83
15 -	212.00	84
16 -	239.20	85
17 - PSW Pedestal	95.00	86
18 -	101.00	87
19 - Primary Shield Wall (PSW)	117.00	88
20 -	133.00	89
21 -	147.00	90
22 - Drywell	96.00	91
23 -	114.00	92
24 -	133.00	93
25 -	143.00	94
26 -	162.00	95
27 -	185.00	96
29 - RPV	113.46	97
30 -	162.57	98
31 - RPV (Internal)	117.63	99
32 -	133.07	100
33 - RPV	138.03	101

\*Each reference number includes:

1. Horizontal and vertical direction OBE condition at 2 percent damping.
2. Horizontal and vertical direction SSE condition at 2, 3, and 4 percent damping.



G.S.U - R.B.1 - J.O 12210 CALC 201.130.124 - A.K.LE  
 SEISMIC ANALYSIS OF REACTOR BUILDING W/CONCRETE FIX



PSPECTRA VER 01 LEY 07

DULF STATE UTILITIES-RBS UNIT 1-CALC12210-MM(C)-SDE-1903 REV(1)  
RRS OF ACC.-REACTOR BLDG.-EL=60.000.MASS=28 6E16 MODEL-MAT  
09E  
PEAK SPREAD -20%.+25%

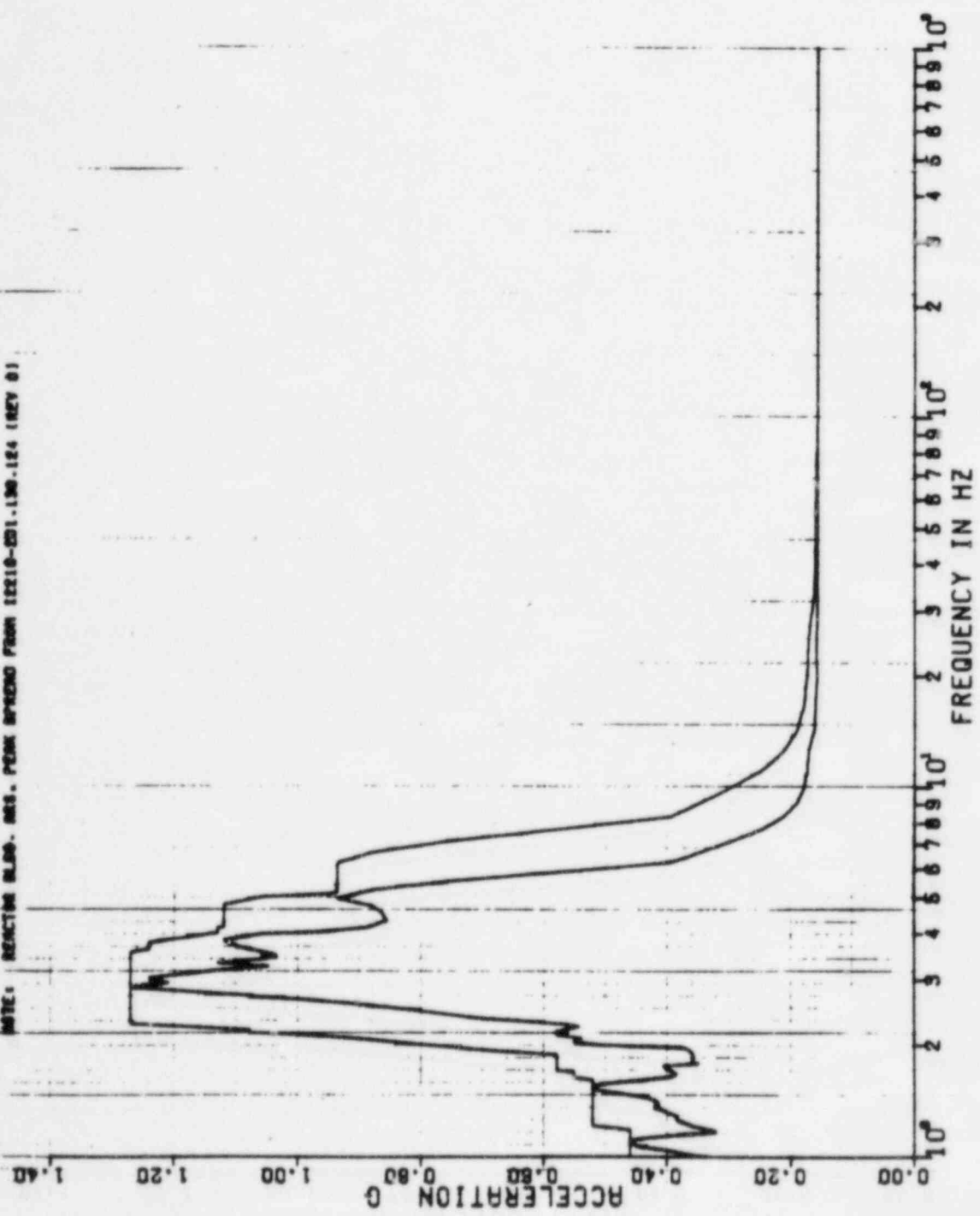
DISK CURVE SET NO.53 0.5 SSE NOR DIRECTION

NOTE: REACTOR BLDG. MASS. PEAK SPREADS FROM 12316-201.150-124 (REV 0)

DAMPING VALUE = 0.020

K.MAY

22 APR 1982



PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RSS UNIT 1-CALC12210-MM(C)-S0E-1903 REV(0)  
RRS OF ACC.-REACTOR BLDG.-EL-60.000.MASS-28 SETS MODEL-MRT  
PEAK SPREAD -20%.+25%  
DBE

DISK CURVE SET NO.53

0.5 SSE

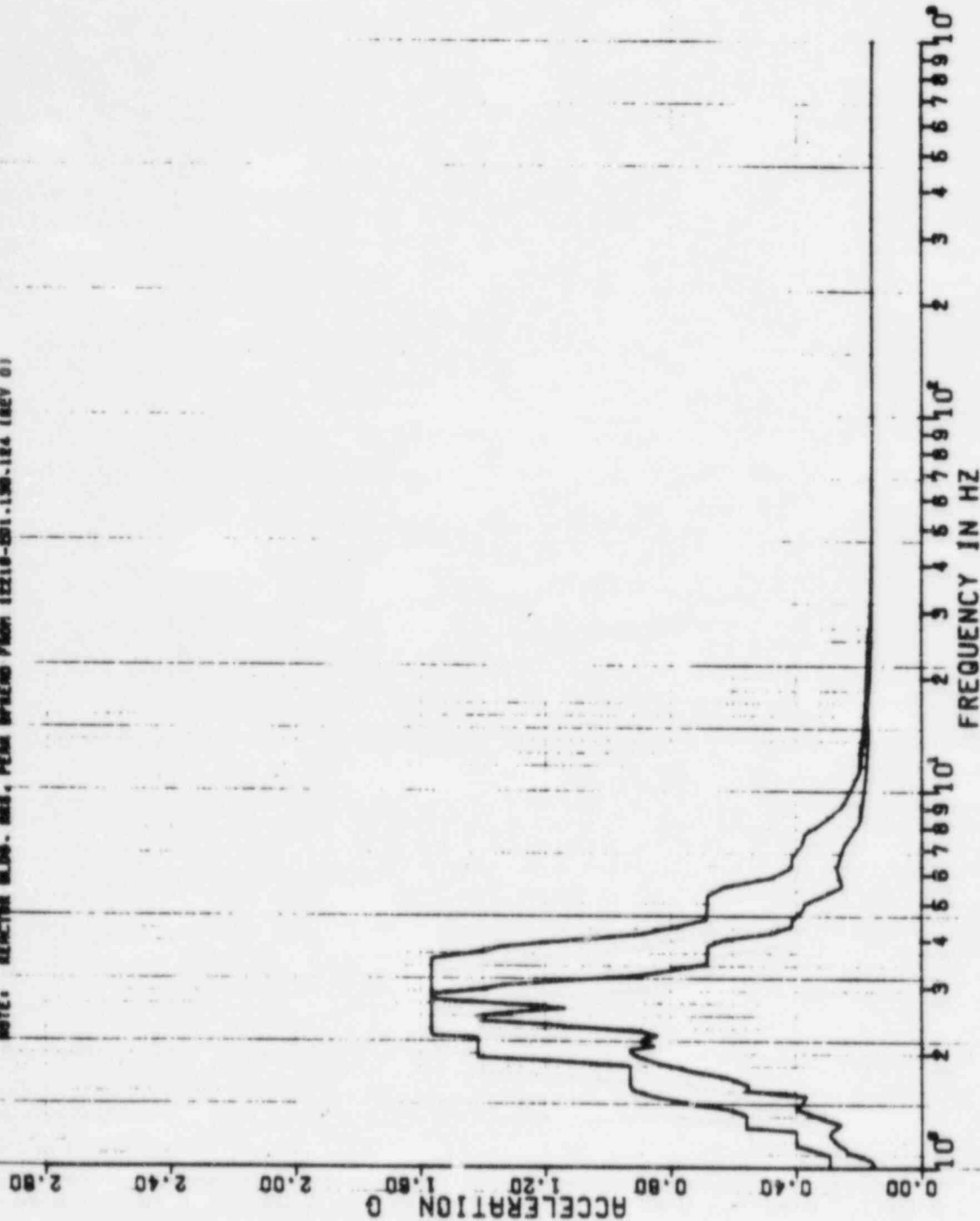
VER DIRECTION

DAMPING VALUE = 0.020

22 APR 1982

K.KAY

NOTE: REACTOR BLDG. RSS, PEAK SPREAD FROM 12210-001.130-184 (REV 0)



607A

6 FEB 1985

K. KRY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 08  
GULF STATES UTILITIES-RBS UNIT 1-CR1210-NR1C7-50F-1805 REV117  
RMS OF ACC.-REACTOR BLDG. LL=60.000, MASS=28 5E16 MODEL-NRT  
PEAK SPREAD -20Z +25Z

DISK CURVE SET NO.54  
1.0 55C MOR DIRECTION

NOTE: REACTOR BLDG. ABS PEAK W/SPREAD FROM 1E21D-501.150.184 180V D)

ACCELERATION

2.80

2.40

2.00

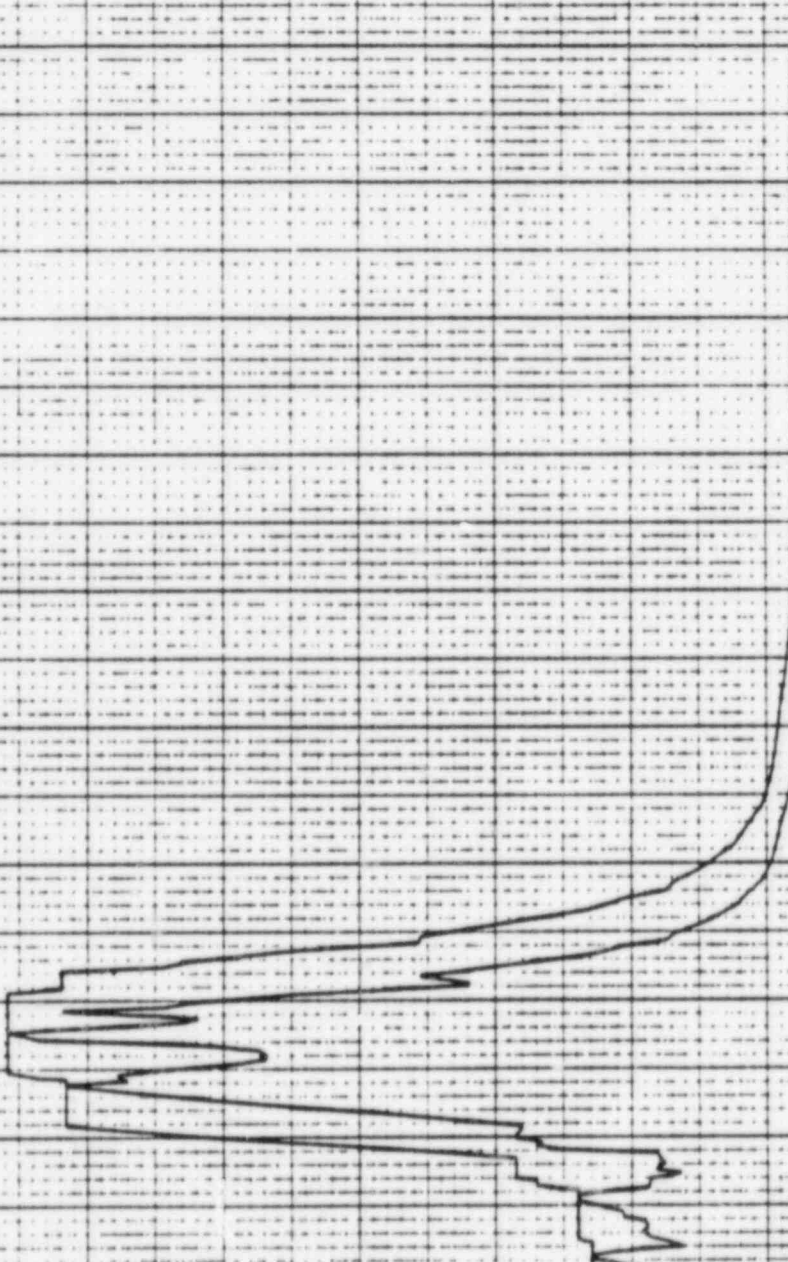
1.60

1.20

0.80

0.40

0.00



10<sup>0</sup> 2 3 4 5 6 7 8 9 10<sup>1</sup>  
FREQUENCY IN HZ

AS3H

8 FEB 1965

K. KAY

DAMPING VALUE = 0.020

SPECTRA VER 03 LEV 06  
 GULF STATES UTILITIES-RBS UNIT 1-CR12210-MNIC1-5DE-1903 REV111  
 RMS OF ACC.-REACTOR BLDG., EL=60.000, MASS=28 5E16 MODEL - MAT  
 PEAK SPREAD -20% +25%

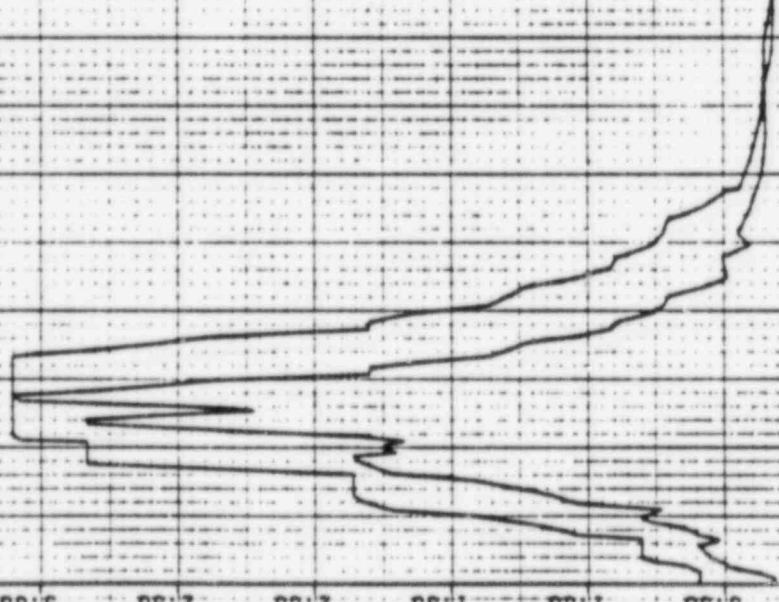
1.0 56E VER DIRECTION

NOTE: REACTOR BLDG. RMS PEAK SPREAD FROM 12210-201-150-124 (REV B)

DISK CURVE SET NO. 54

ACCELERATION 0 0.50 1.00 1.50 2.00 2.50 3.00 3.50

FREQUENCY IN HZ 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup>





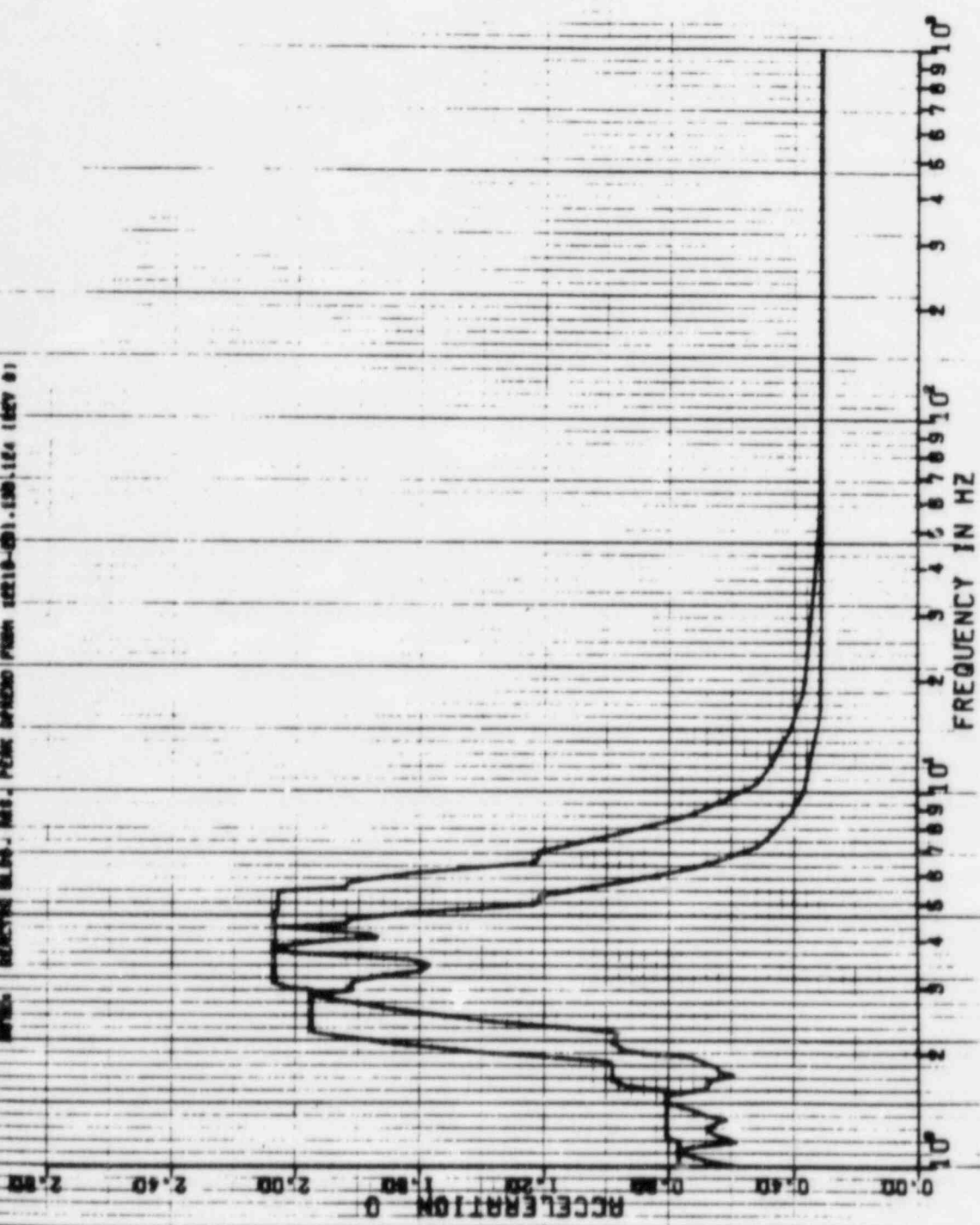
22 APR 1962

3874

K.KAY

DAMPING VALUE = 0.030

PSECTER VER 01 LEV 07  
 WOLF STATE UTILITIES-RSS UNIT 1-CALC12210-NR1C1-58E-1903 REV10)  
 RSS OF REC.-REACTOR BLDG.-EL-80.000.MASS-28 SEIS MODEL--MAT  
 PEAK SPREAD -201.575Z  
 DISK CURVE SET NO.54  
 1.0 SSE HOR DIRECTION  
 (UNIT) SECTORS BLDG. MASS. PEAK SPREAD FROM SEIS-001.100.124 (REV 01)



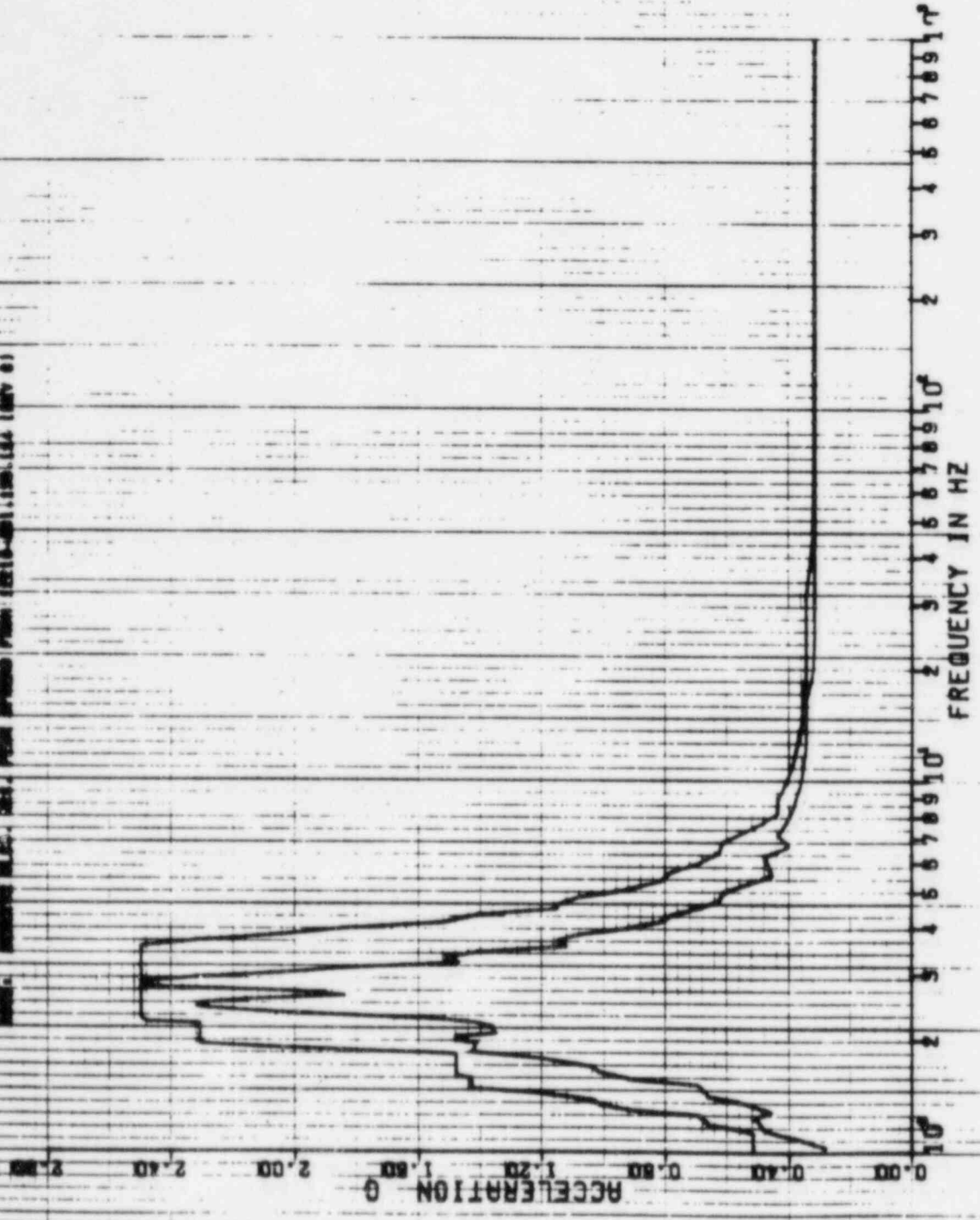
22 APR 1962

K. KAY

DAMPING VALUE = 0.030

PSECTER VER DI LEV 07  
 DULF STATE UTILITIE. - RBS UNIT 1-CALC12210-MNLC1-502-1903 REV101  
 RNS OF REC. - REACTOR BLDG. EL-60.000. NR88-28 SE16 MODEL-MAT  
 PEAK SPREAD. - EDL. 25X  
 DINK CURVE SET NO. 5A  
 1.0 SSE VER DIRECTION  
 S5E

MODEL: MEASURING MLC. 204. PEAK SPREAD FROM 1918-01.100. L64 100V 01



1549

22 APR 1987

K. KAY

DAMPING VALUE = 0.030

PSPECTRA VER 01 LEV 07  
 CULF STATE UTILITIES 885 0911 - CMLT 2210+MRTY-SOE-1903 REV 03  
 RPS OF ACC - REACTOR BLOC (L-60,000 MASS) 20 SETS MODEL-MBT  
 PEAK SPREAD - 20% ± 25%  
 DISK CURVE SET NO. 5A

± 0.55E HOR DIRECTION

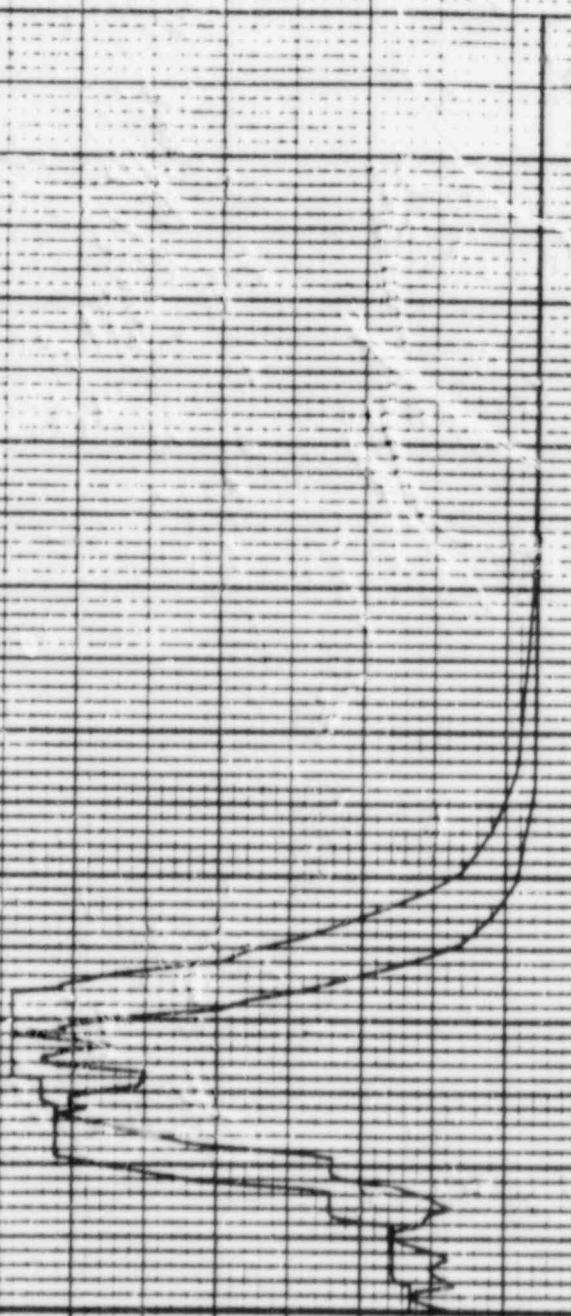
NOTE: REACTOR BLOC HAS PEAK SPREAD FROM 42210-201 0330 (24 REV 01)

ACCELERATION G

FREQUENCY (PM) HZ

0.00 0.40 0.80 1.20 1.60 2.00 2.40 2.80

0 1 2 3 4 5 6 7 8 9 10







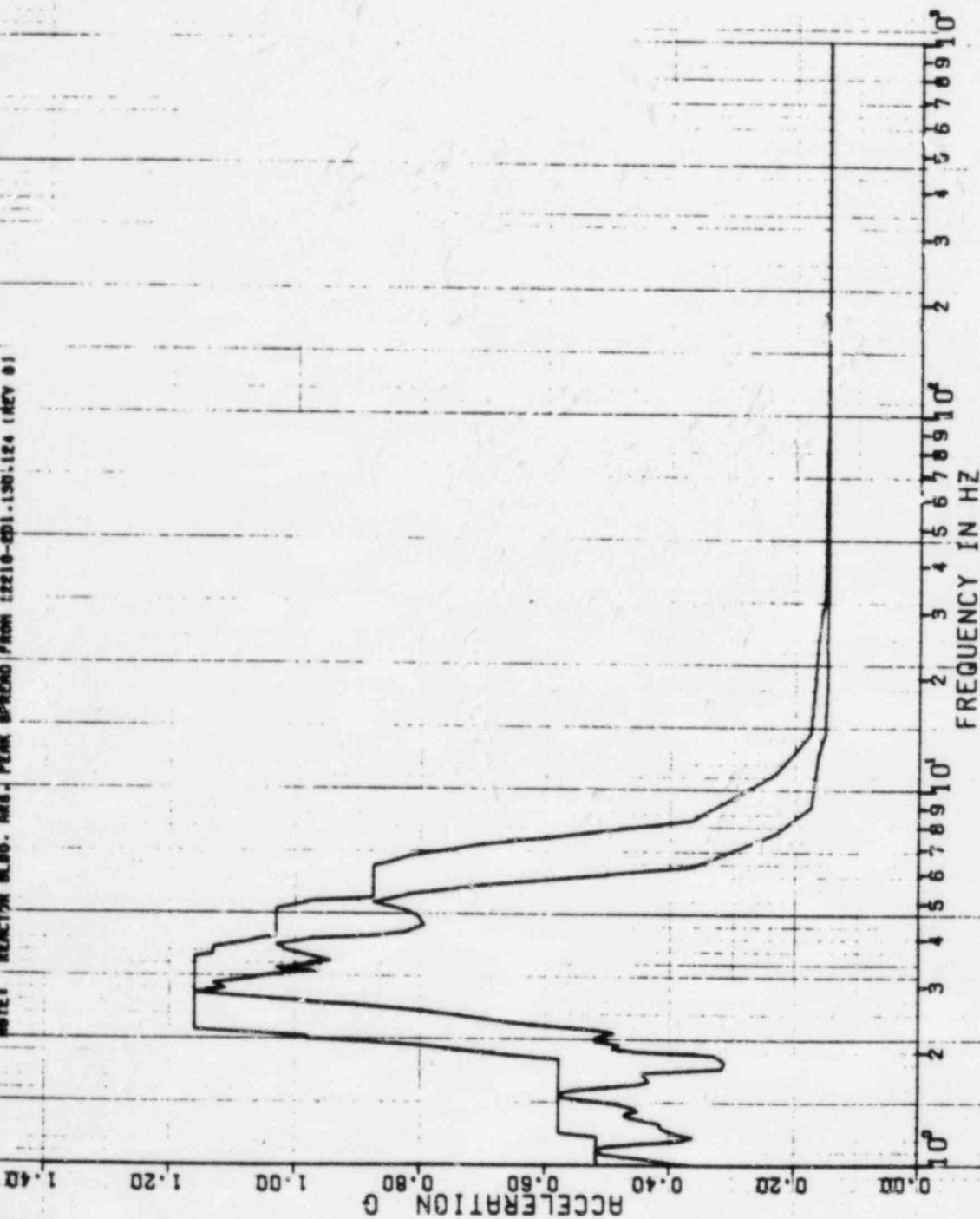
su 4A

22 APR 1982

K. KAY

DAMPING VALUE = 0.020

PSPECTRA VER > LEV 07  
 DULF STATE UTILITIES-R86 UNIT 1-CALC(12210-MR1C)-50E-1903 REV(10)  
 RRS OF ACC.-REACTOR BLDG. EL=70.000.MASS=01 SEIS MODEL-TOP OF MAT  
 PEAK SPREAD -20%.+25%  
 DISK CURVE SET NO.1  
 0.5 56E HOR DIRECTION  
 NOTE: REACTOR BLDG. HAS PEAK SPREAD FROM 12210-CP1.150.124 (REV 0)



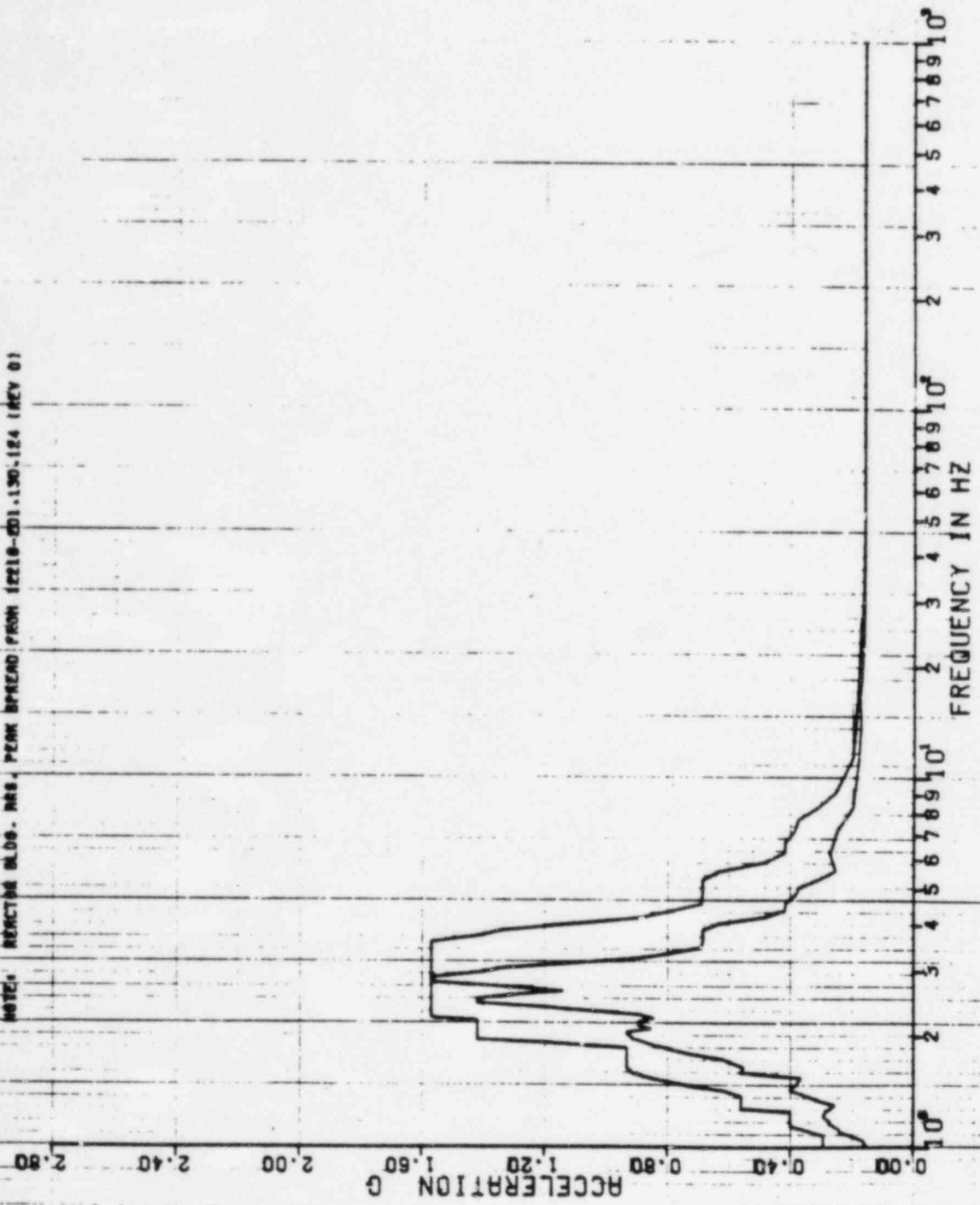
203A

22 APR 1982

K-MAY

DAMPING VALUE = 0.020

SPECTRA VER 01 LEV 07  
 GULF STATE UTILITIES-R06 UNIT 1-CALC12210-MM(C)-50E-1903 REV101  
 RRG OF ACC.-REACTOR BLDG.-EL=70.000, MASS=01 SEIS MODEL-TOP OF MAT  
 PEAK SPREAD -20%, +25%  
 DISK CURVE SET NO.1  
 0.5 SSE VER DIRECTION  
 NOTE: REACTOR BLDG. HAS PEAK SPREAD FROM 12210-201.130.124 (REV 01)

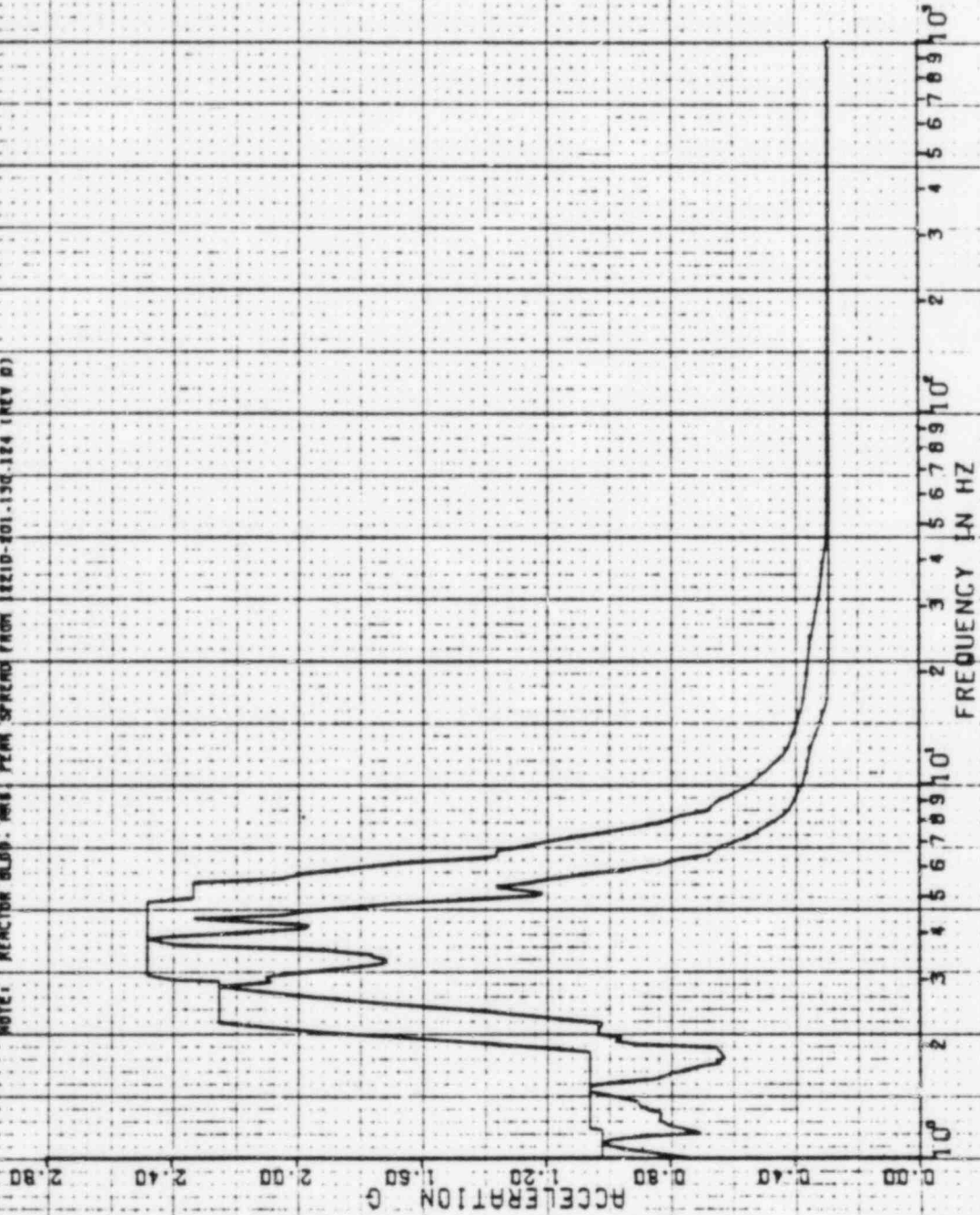


8 FEB 1963  
K. MAY  
57 A

PSPECTRA VER 01 LEV 05  
GULF STATES UTILITIES-RDS UNIT 1-CALC12210-MMIC1-50E-19D3 REV111  
RRS OF ACC.-REACTOR BLDG. .EL=70.000. MASS=01 SE16 MODEL-TOP OF MAT  
PEAK SPREAD -20% +25%

DISK CURVE SET NO. 2  
1.0 SSE. HOR DIRECTION  
NOTE: REACTOR BLDG. HAS PEAK SPREAD FROM 18210-201.130.124 (REV D)

DAMPING VALUE = 0.020





611A

8 FEB 1963

K. MAY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 08  
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MM(C)-SDE-1963 REV117  
RRS OF ACC.-REACTOR BLDG., EL-70.000, MRS6-01. 5E16 MODEL-TOP OF MNT  
PEAK SPREAD -20% +25%

1.0 55E VER DIRECTION

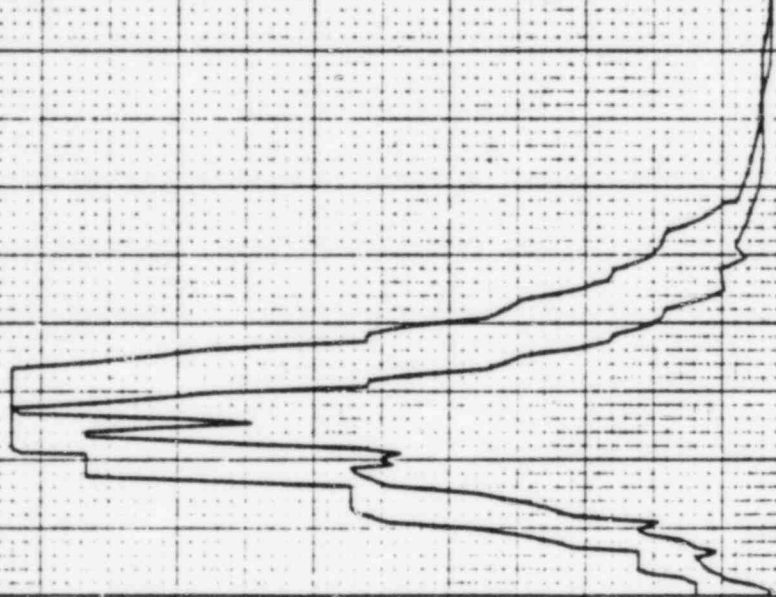
DISK CURVE SET NO.2

NOTE: REACTOR BLDG. MRS. PEAK SPREAD FROM (2210-201.130.184 (REV 01)

ACCELERATION 0 0.50 1.00 1.50 2.00 2.50 3.00 3.50

10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup> 10<sup>9</sup> 10<sup>10</sup>

FREQUENCY IN HZ



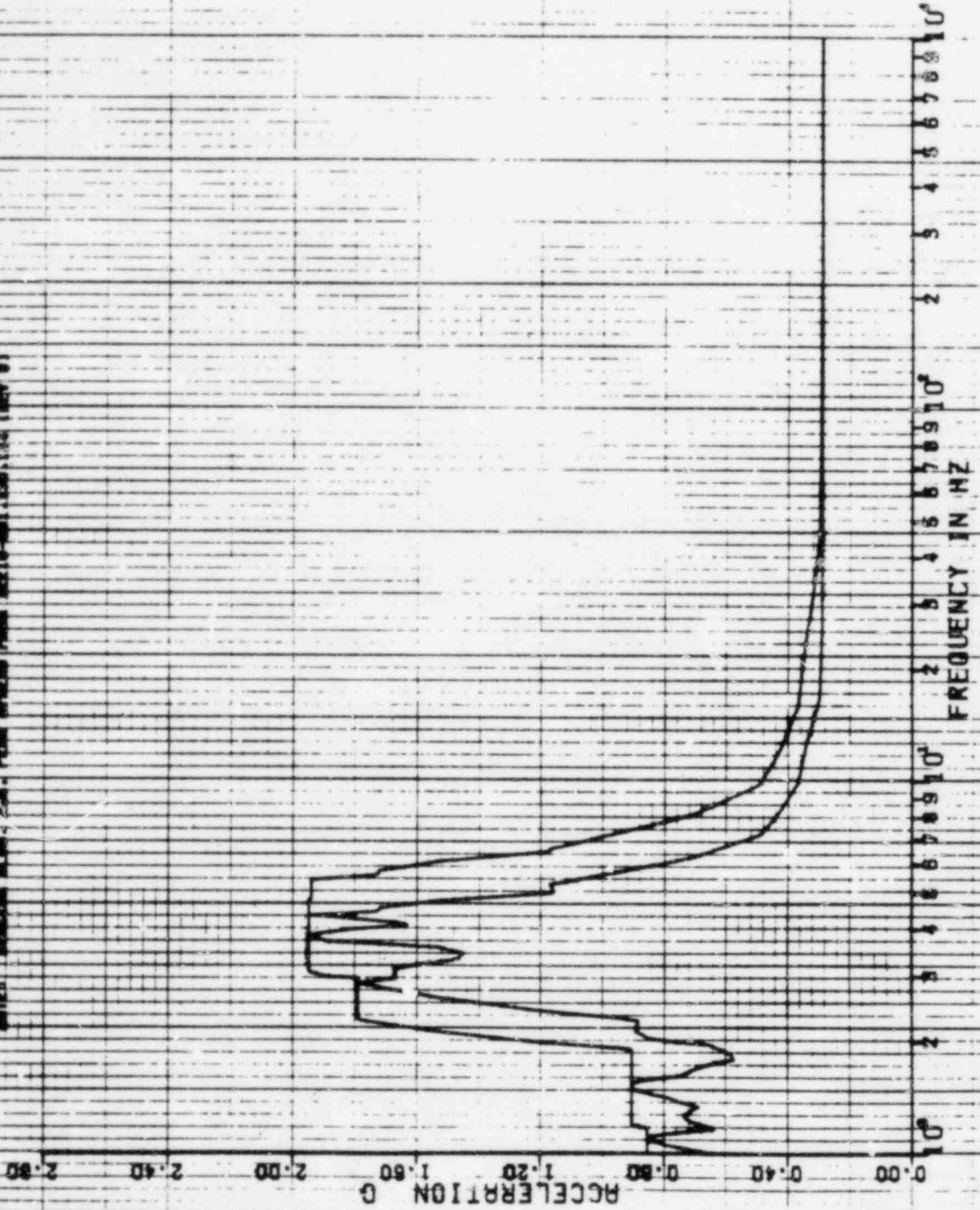
33

22 APR 1982

K. KAY

DAMPING VALUE = 0.030

PSPECIDR VER 01 LET 07  
 GULF STATE UTILITIES-ROK UNIT 1-CALC12210-MAIN-1-500-1903 KEY10)  
 RMS OF ACC.-REACTOR BLOW-EL=70.000, MASS=01 SEIS MODEL-TOP OF MAT  
 PERK APPEND -ZPT1-25Z  
 DISK CURVE SET 00.2  
 1.0 SEC NOR DIRECTION  
 DATE: JANUARY 1982







40-4

22 APR 1988

A.K.A.Y

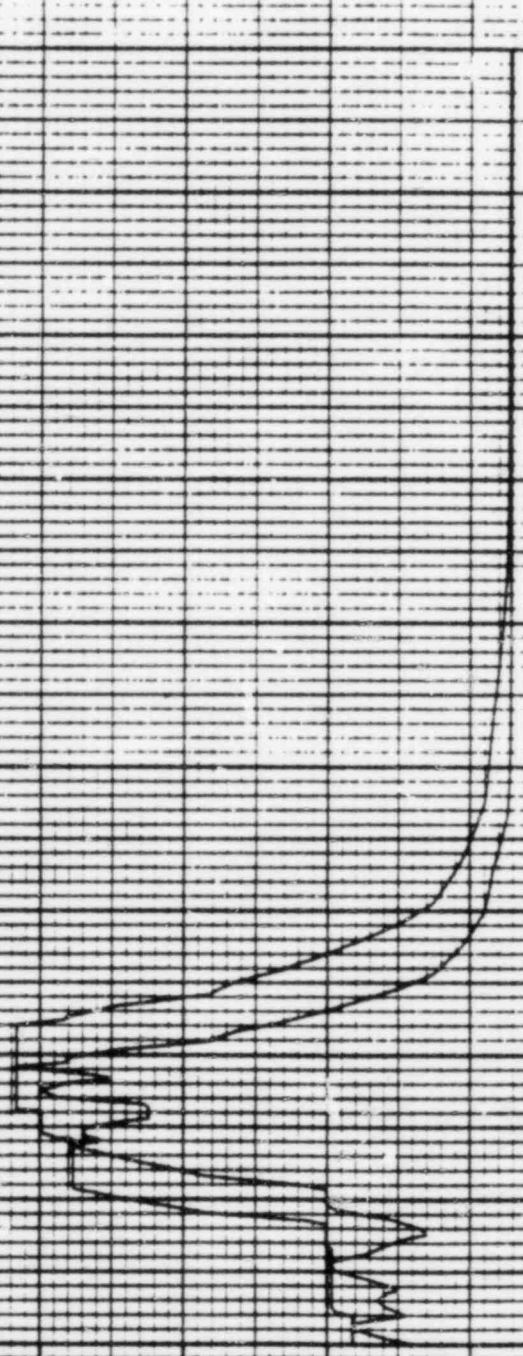
DAMPING VALUE = 0.040

SPECTRA VER. 01 LEV 07  
 CULT STATE UTILITIES - 885 UNIT - CALC 18210 - NH 131 - SDE - 1903 NZVT 21  
 PRS OF ACC - REFLECTOR BLDG. FL=70.000. MASSED 01 SET MODEL - TOP OF MAT  
 PEAK SPREAD - 0.00V - 0.05K

1.0 SBE HDR DIRECTION  
 DISK CURVE SET NO. 2

NOTE: REACTION SLDG. HAS BEEN SPREAD FROM 1.00 TO 1.4 (NEW 0)

ACCELERATION G  
 0.000 0.400 0.800 1.200 1.600 2.000 2.400



10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup>  
 FREQUENCY IN HZ  
 1 2 3 4 5 6 7 8 9 10



90-11

22 APR 1982

K. KAY

DAMPING VALUE = 0.000

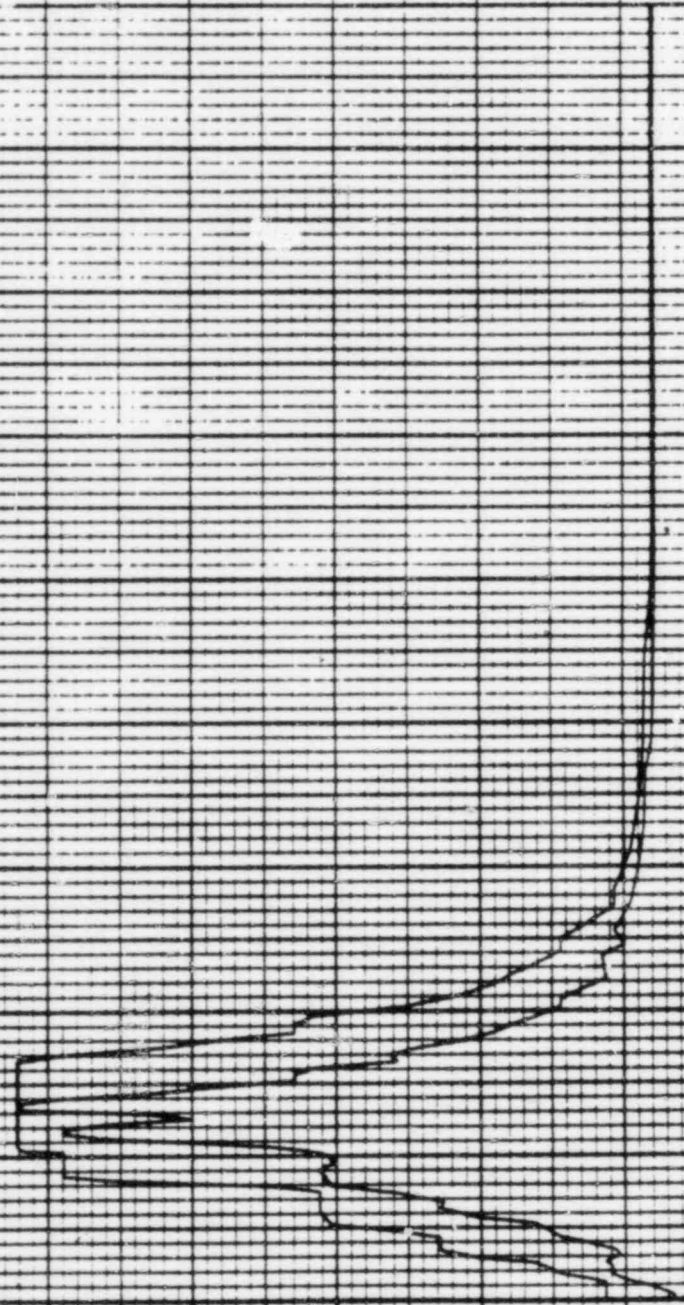
SPECTRA VER 01 LEV 07  
CULF STATE UTILITIES-RBS UNIT 1-CALCULATED-NHTCJ-SQE-1SD8 REV 01  
RBS OF REACTOR BLDG-EL-90.000, MASSES-D1 SECS, MODEL-TOP OF MAT.  
PEAK SPEED - 207.25K  
DISK CURVE SET NO. 2

A. D. SSE VER DIRECTION

NOTE: REACTOR BLDG. RBS. PEAK SPEED FROM 12218-201 (SOL 14 184K 51)

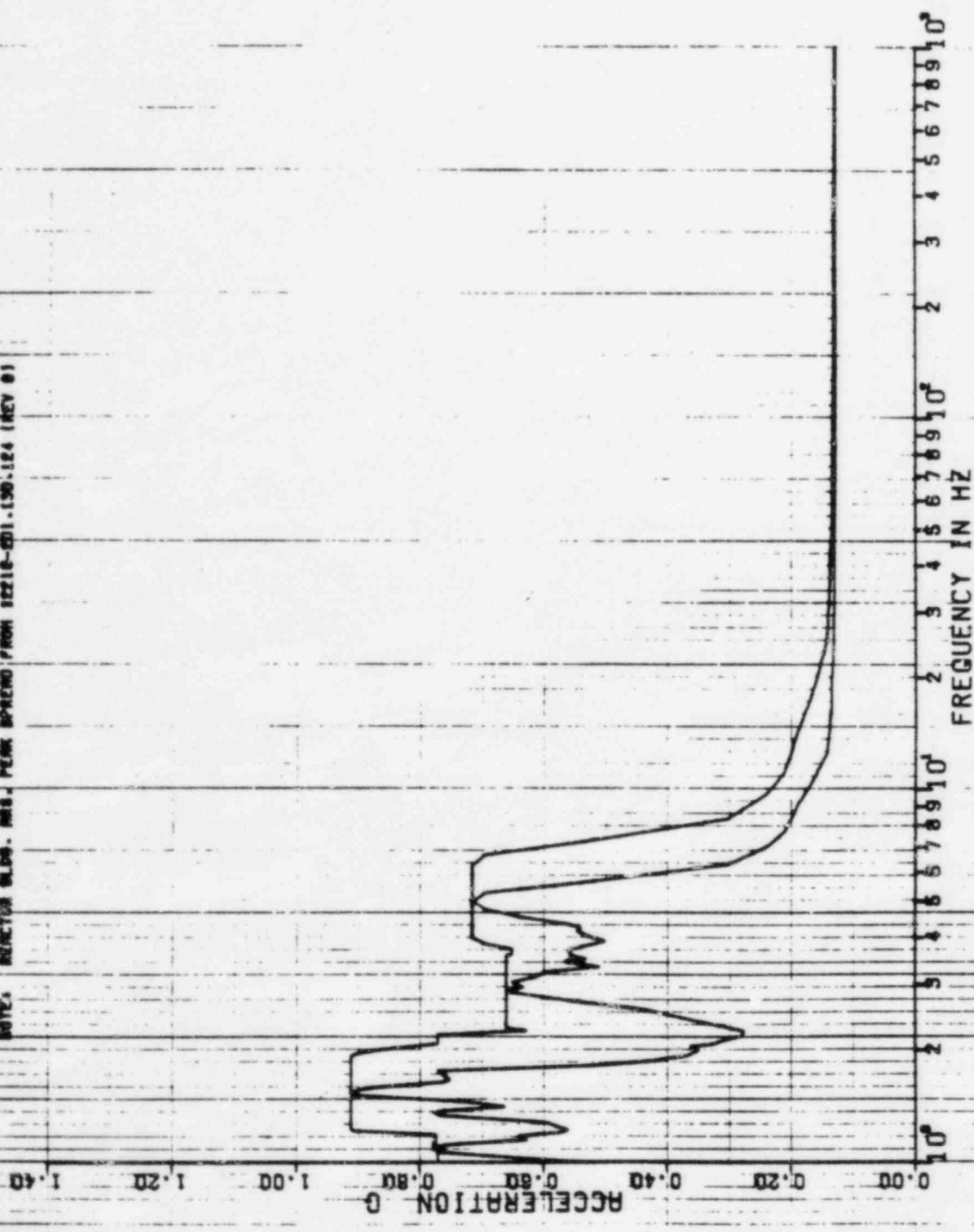
ACCELERATION g

FREQUENCY IN HZ



22 APR 1982  
K. KAY  
DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 07  
GULF STATE UTILITIES-RSS UNIT -CALC12210-NR(E)-50E-1903 REV10)  
RMS OF ACC.-REACTOR BLDG.-EL-112.67.MASS=03 SEIS MODEL-SHIELD BLDG.  
PEAK SPREAD: -20%+25%  
DISK CURVE SET NO.3  
O.S. SSE HOR DIRECTION  
NOTE: REACTOR BLDG. MRS. PEAK SPREAD FROM 12210-001.150-124 (REV 0)



PSPECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-RB6 UNIT 1-CALC12210-MM(C)-SQE-1903 REV(0)  
RRS OF ACC.-REACTOR BLDG. EL=112.67, MASS=03 SEIS MODEL-SHIELD BLDG.  
PEAK SPREAD -20%, +25%

DISK CURVE SET '0.3

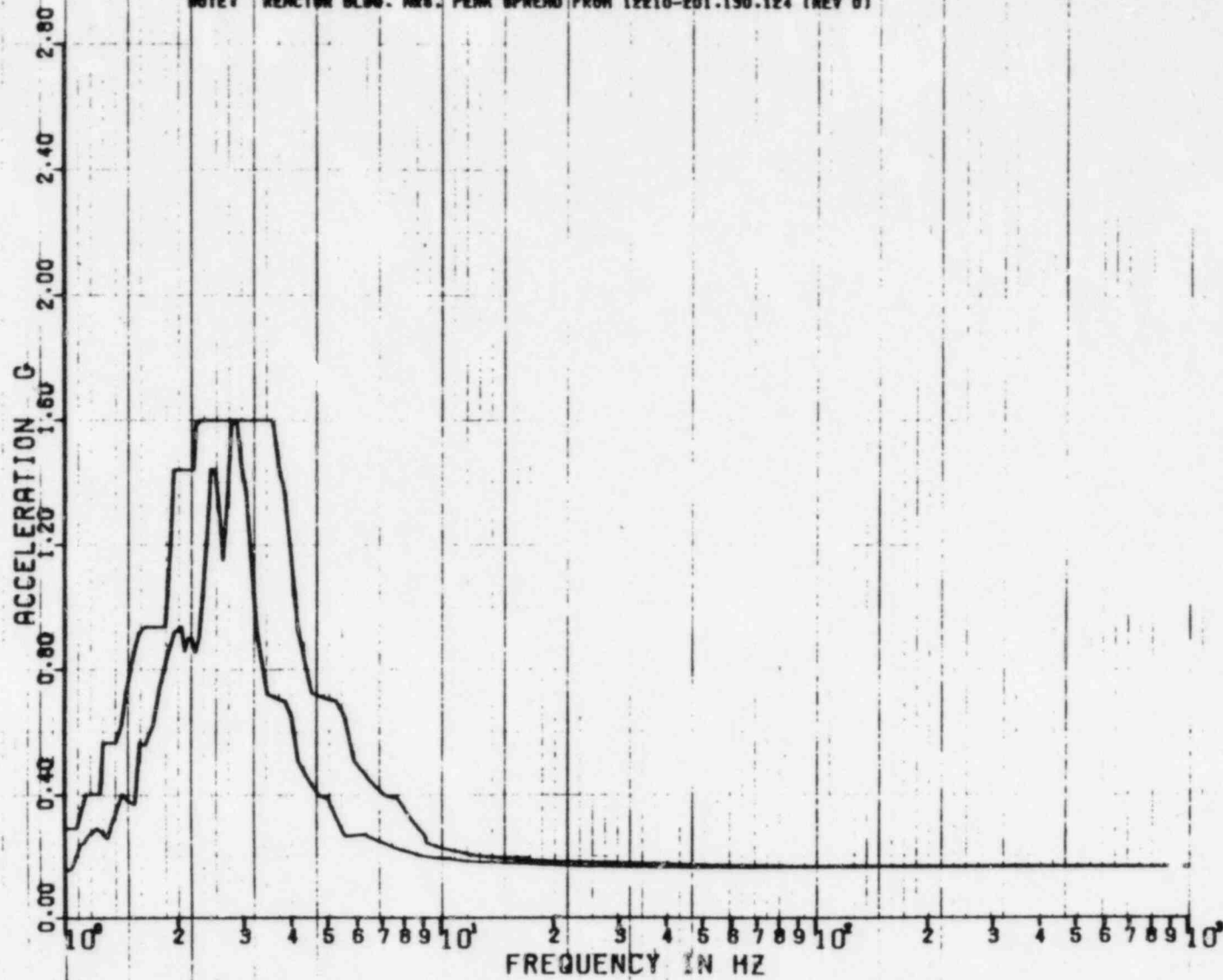
0.5 SSE

VER DIRECTION

K.KAY

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. ASS. PEAK SPREAD FROM 12210-201.190.124 (REV 0)



REF 71



1.2 H

8 FEB 1963

K. MAY

DAMPING VALUE = 0.020

PGSPECTRA VER 01 LEV 08  
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MN1CJ-50E-1803 REV117  
RRS OF ACC.-REACTOR BLDG., EL-112.67, MASS-03 5E16 MODEL-SHIELD BLDG  
PEAK SPREAD -20% +25%

DISK CURVE SET NO. 4  
1.0 5SE MOR DIRECTION

NOTE: REACTOR BLDG. RMS. PEAK SPREAD FROM 12210-201.150-164 (REV D)

ACCELERATION G

2.80

2.40

2.00

1.60

1.20

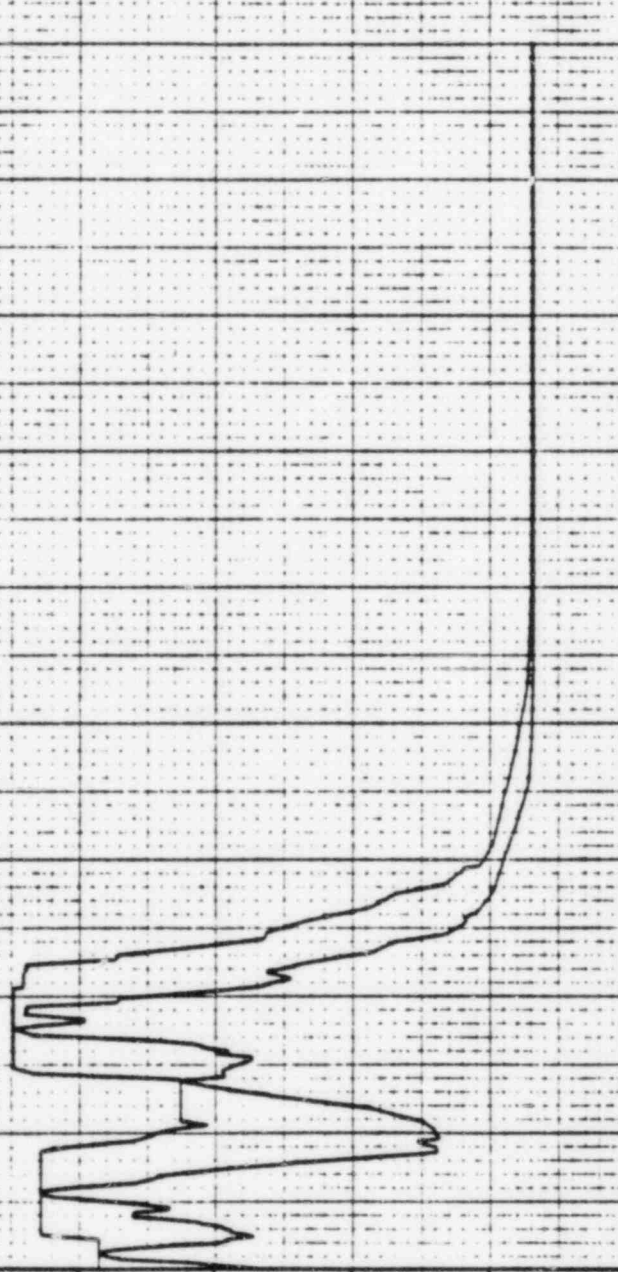
0.80

0.40

0.00

10<sup>0</sup> 2 3 4 5 6 7 8 9 10<sup>1</sup> 2 3 4 5 6 7 8 9 10<sup>2</sup>

FREQUENCY IN HZ



8 FEB 1983  
1024

K. KRY  
DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 08  
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MNIC1-60E-1903 REV111  
RRS OF ACC.-REACTOR BLDG., EL=112.67, MASS=03 6E16 MODEL-SHIELD BLDG  
PEAK SPREAD -20% +25%  
56E

VER DIRECTION

1.0 SSE

NOTE: REACTOR BLDG. RBS PEAK SPREAD FROM 12210-101.130.124 (REV 01)

DISK CURVE SET NO. 4

3.50

3.00

2.50

2.00

1.50

1.00

0.50

0.00

ACCELERATION G

10<sup>0</sup>

2

3

4

5

6

7

8

9

10

10<sup>1</sup>

2

3

4

5

6

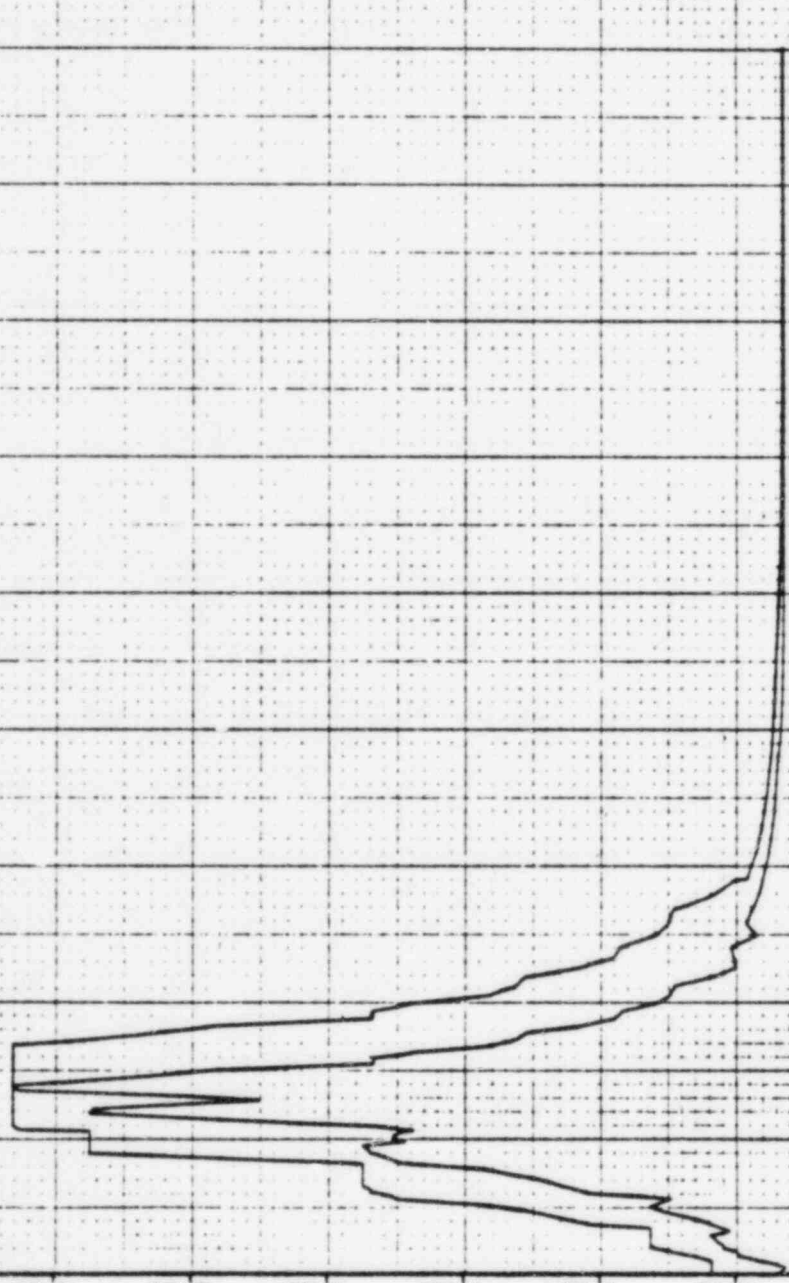
7

8

9

10

FREQUENCY IN HZ



3.58A

22 APR 1982

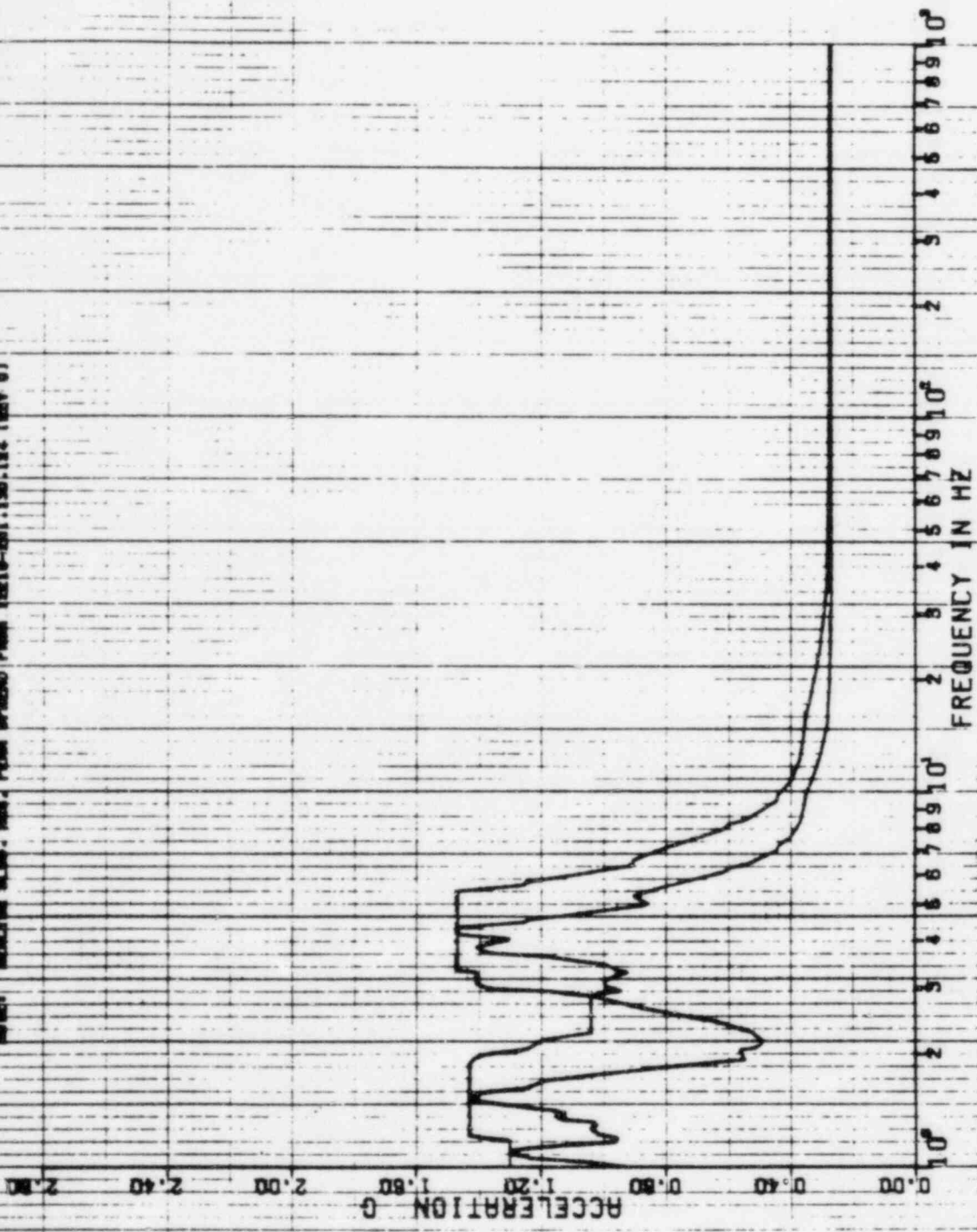
K. KAY

DAMPING VALUE = 0.030

PSPECTRA VER 01 LEV 07  
 DULF STATE UTILITIES-R66 UNIT 1-CALC12210-NR(C)-89E-1903 REV(0)  
 RIB OF ACC.-REACTOR BLDG., EL=112.67, MASS=03 SEIS MODEL-SHIELD BLDG.  
 PEAK SPREAD -20% -25%  
 DISK CURVE SET NO. 4

1.0 SSE HOR DIRECTION

NOTE: REACTOR BLDG. MASS, PEAK SPREAD FROM 10210-201.130.124 (REV 0)





PSPECTRA VER 01 LEV 07

22 APR 1982

33.4

DULF STATE UTILITIES-RB6 UNIT 1-CALC12210-NM(C)-SQE-1903 REV(0)  
RRS OF ACC.-REACTOR BLDG.EL=112.67.MASS=03 SEIS MODEL-SHIELD BLDG.  
PEAK SPREAD -20%+25% SSE

K.KAY

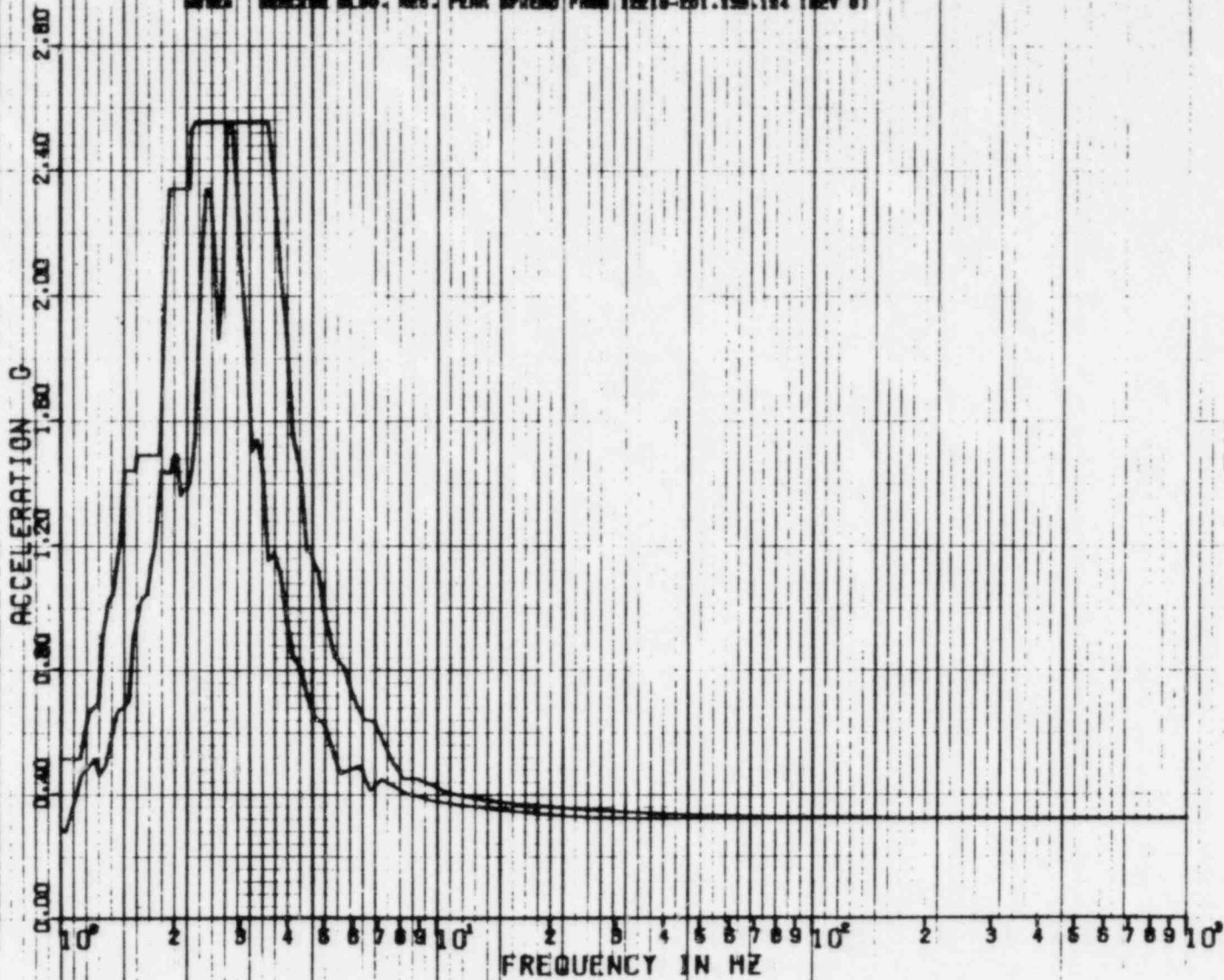
DISK CURVE SET NO.4

1.0 SSE

VER DIRECTION

DAMPING VALUE = 0.050

NOTE: REACTOR BLDG. RES. PEAK SPREAD FROM 10010-201.130.164 (REV 0)



REF 71

40-11-A

22 APR 1962

K-KAY

DAMPING VALUE = 0.010

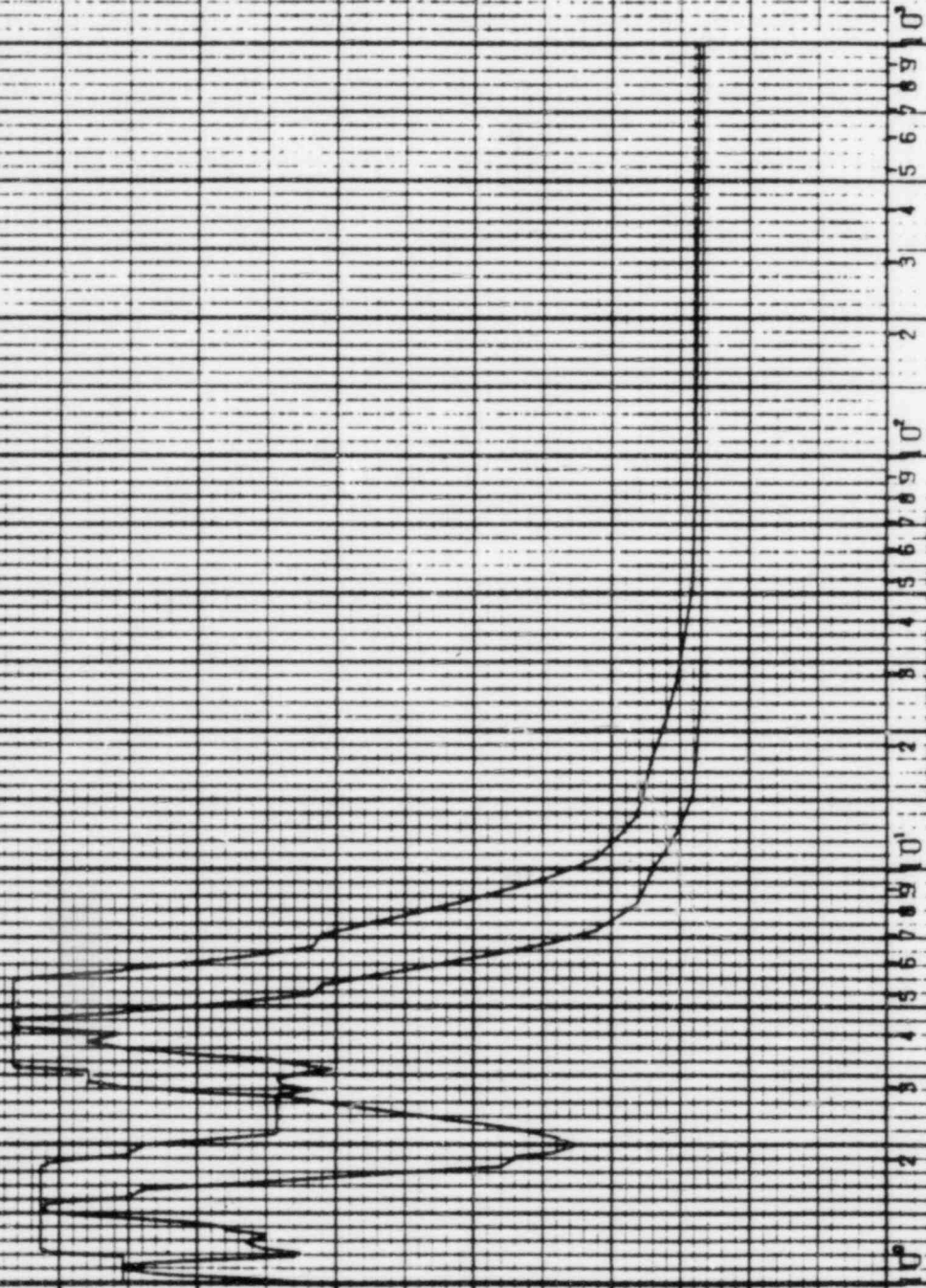
PSPECTRA VER. 01 LEV. 07  
CULY STATE UTILITIES-RBS UNIT - CALC. 22.0. 08.11.202. 903 REV. 01  
ERS OF ACC.-REACTOR BLOC. EL-112.67. MASS-03 SETS MODEL-SHIELD BLOC  
PEAK SPREAD - 207.1252  
SSC

1.0 SSC HOR DIRECTION

NOTE: REACTOR BLOC. HAS PEAK SPREAD FROM 12316-201.130. 24. REV. 0

DISK CURVE SET NO. 1

RECELERATION G  
0.00 0.20 0.40 0.60 0.80 1.00 1.20 1.40



FREQUENCY IN. HZ  
10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup>



90>A

22 APR 1988

K. KAY

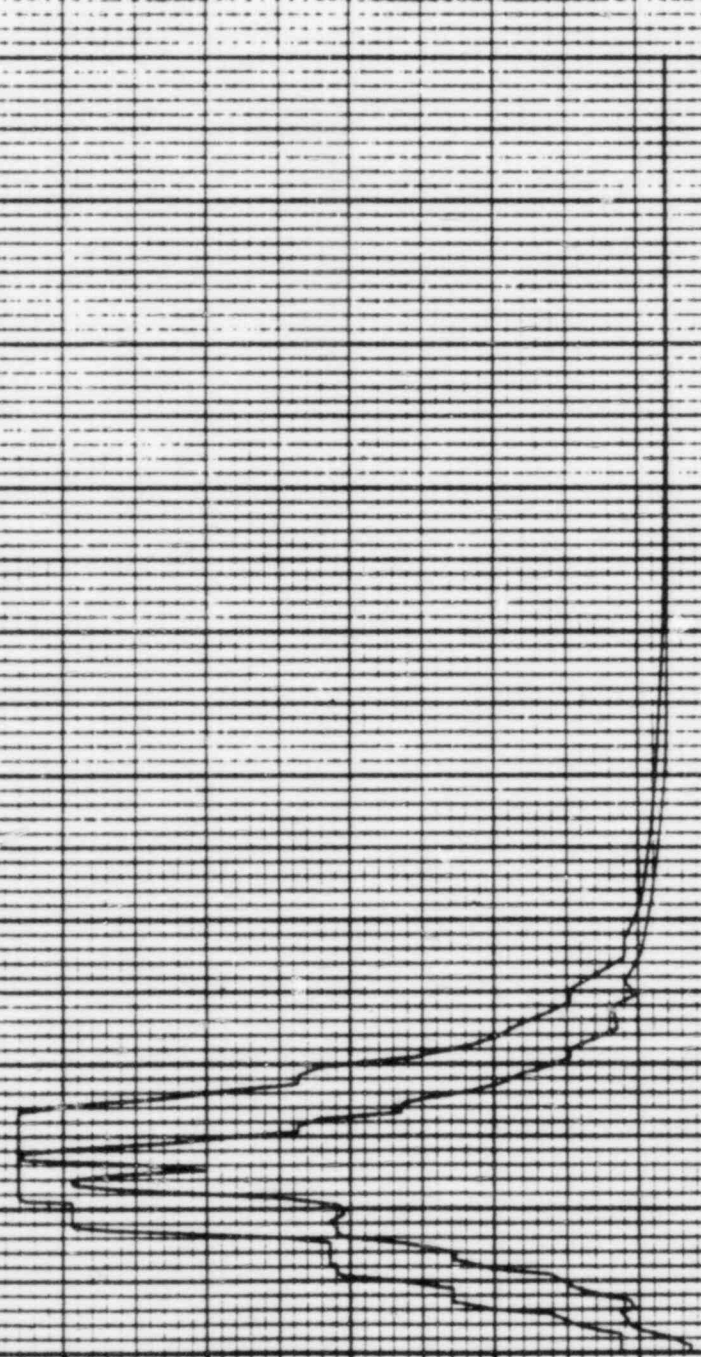
DAMPING VALUE = 0.040

SPECTRA VER DA 1EV D7  
 DUFF STATE UNIT 1 RB5 UNIT 1 - CALIFORNIA - WPTU - SDE - 1988, REV 100  
 RB5 OF ACE - REACTOR BLOCK EL = 12.57, MASS = 03 SE 15 MODEL - SHIELD BLOCK  
 PEAK SPREAD - 0.021, 0.254  
 DISK CURVE SET NDI.K

0.0 5SE VER DIRECTION

NOTE: REACTOR IN DB, PMS, PMS SPREAD FROM 12.12-20.1 (SD. 1.84 X 10^4 b)

ACCELERATION  
 0  
 0.500  
 1.000  
 1.500  
 2.000  
 2.500  
 3.000



10^0  
 10^1  
 10^2  
 FREQUENCY IN HZ  
 1 2 3 4 5 6 7 8 9 10

22 APR 1982

2074

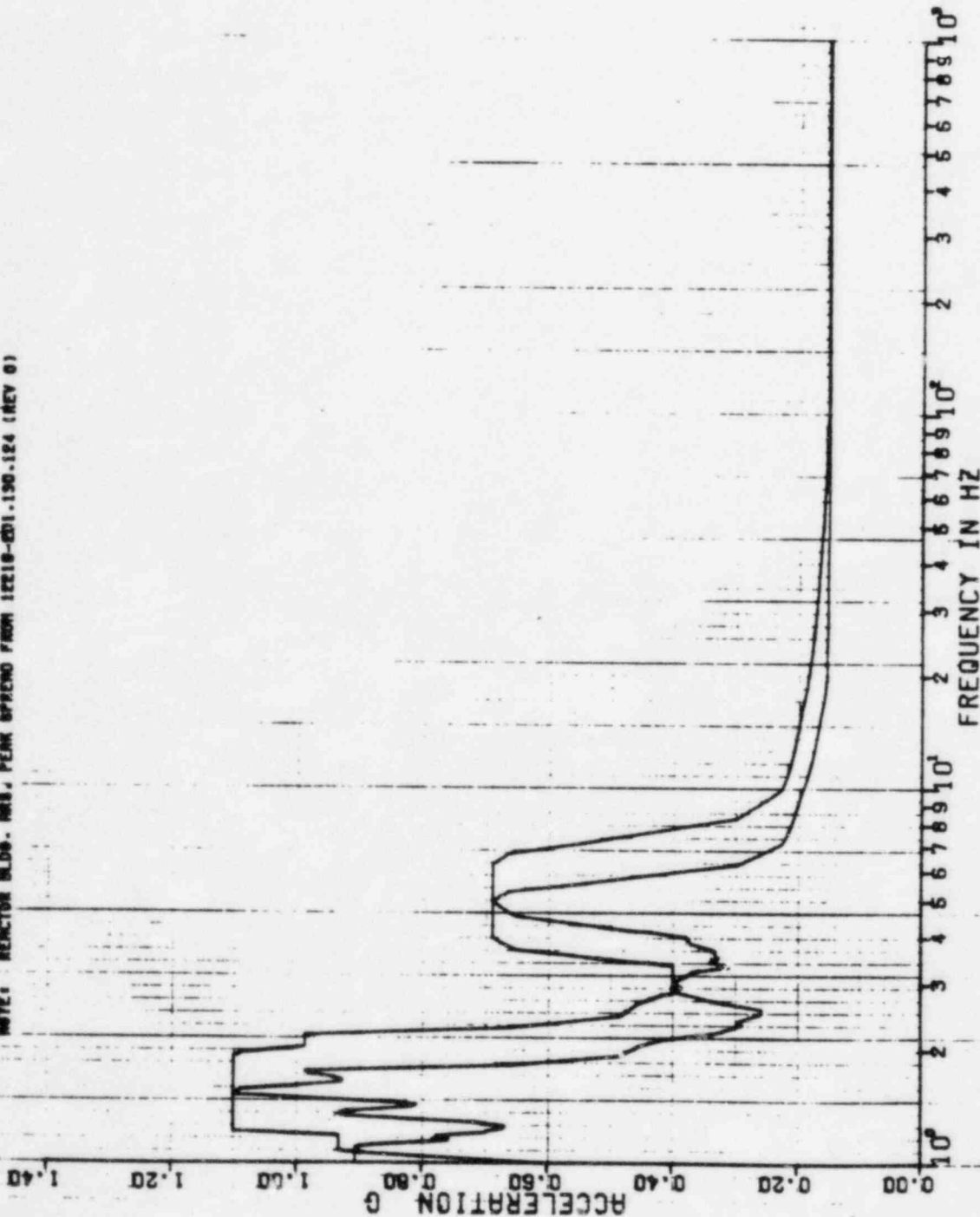
PSPECTRA VER 01 LEV 07  
GULF STATE UTILITIES-R06 UNIT 1-CALC12210-MM(C)-S0E-1903 REV(0)  
RRS OF ACC.-REACTOR BLDG. EL=132.99.MASS=04 6E16 MODEL-SHIELD BLDG.  
PEAK SPREAD -20%.+25Z

DISK CURVE SET NO.5 0.5 SSE HOR DIRECTION

K.KRAY

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. NR8, PEAK SPREAD FROM 12218-CD1.130.124 (REV 0)



PSPECTRA VER 01 LEV 07

MULF STATE UTILITIES-R86 UNIT 1-CALC12210-MM(C)-50E-1905 REV(0)  
RRS OF ACC.-REACTOR BLDG.-EL=132.98.MASS=04 SEIS MODEL-SHIELD BLDG.  
PEAK SPREAD -20%.+25%

DISK CURVE SET NO.5

0.5 55E

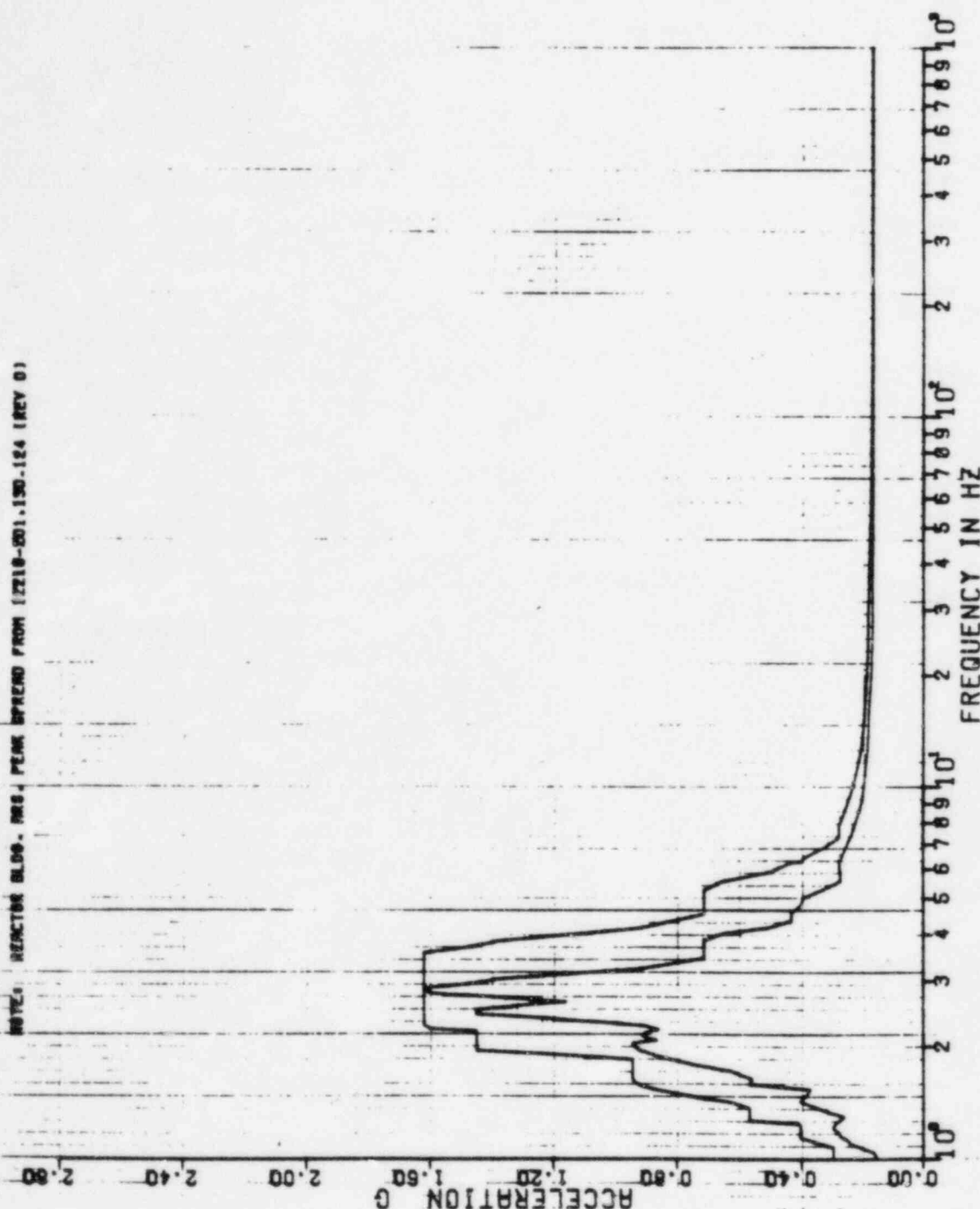
VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. MASS PEAK SPREAD FROM (2718-001.150-124 (REV 0))

22 APR 1982

K.KAY



1001A

8 FEB 1983

K. KAY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 06  
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MH(C)-5QE-1903 REV(1)  
ARS OF ACC.-REACTOR BLDG., EL=132.99, MASS=04 SE16 MODEL-SHIELD BLDG  
PEAK SPREAD -20% +25%  
6SE

1.0 SSE HOR DIRECTION

NOTE: REACTOR BLDG, ARS PEAK SPREAD FROM 12210-101-130-124 (REV 01)

DISK CURVE, SET NO. 6

2.80

2.40

2.00

1.60

1.20

0.80

0.40

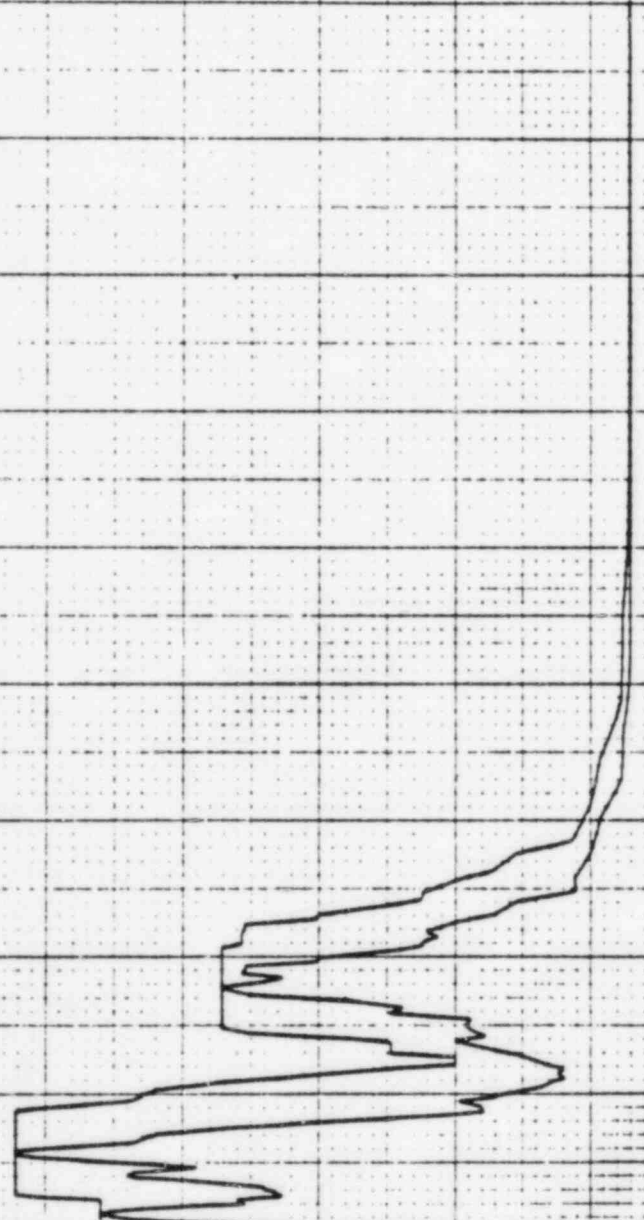
0.20

0.10

ACCELERATION G

10<sup>0</sup> 2 3 4 5 6 7 8 9 10<sup>1</sup> 2 3 4 5 6 7 8 9 10<sup>2</sup>

FREQUENCY IN HZ

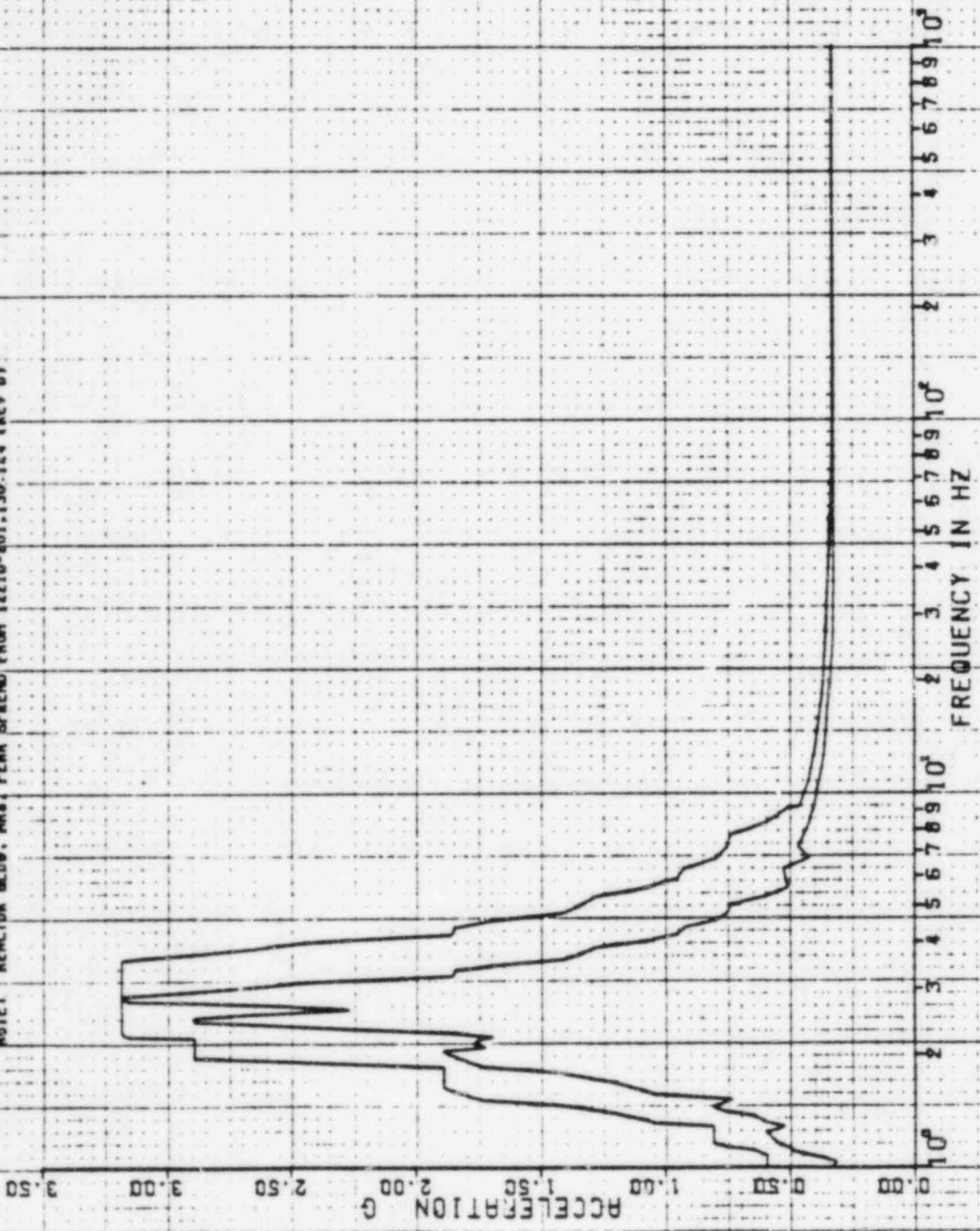




6 FEB 1963  
K. MAY  
DAMPING VALUE = 0.020

PGSPECTRA VER 03 LEV 08  
CAULF STATES UTILITIES-MDS UNIT 1-CALC12210-NM1C7-50E-1909 REV(1)  
RRS OF ACC.-REACTOR BLDG. EL-132.99-MASS=04 SEIS MODEL-SHIELD BLDG  
PEAK SPREAD -20% +25%  
DISK CURVE SET NO.6  
NOTE: REACTOR BLDG. MASS PEAK SPREAD FROM 12210-501.130.154 (REV B)  
1.0 55E VER DIRECTION  
55E

405A



370 A

22 APR 1982

K.KDY

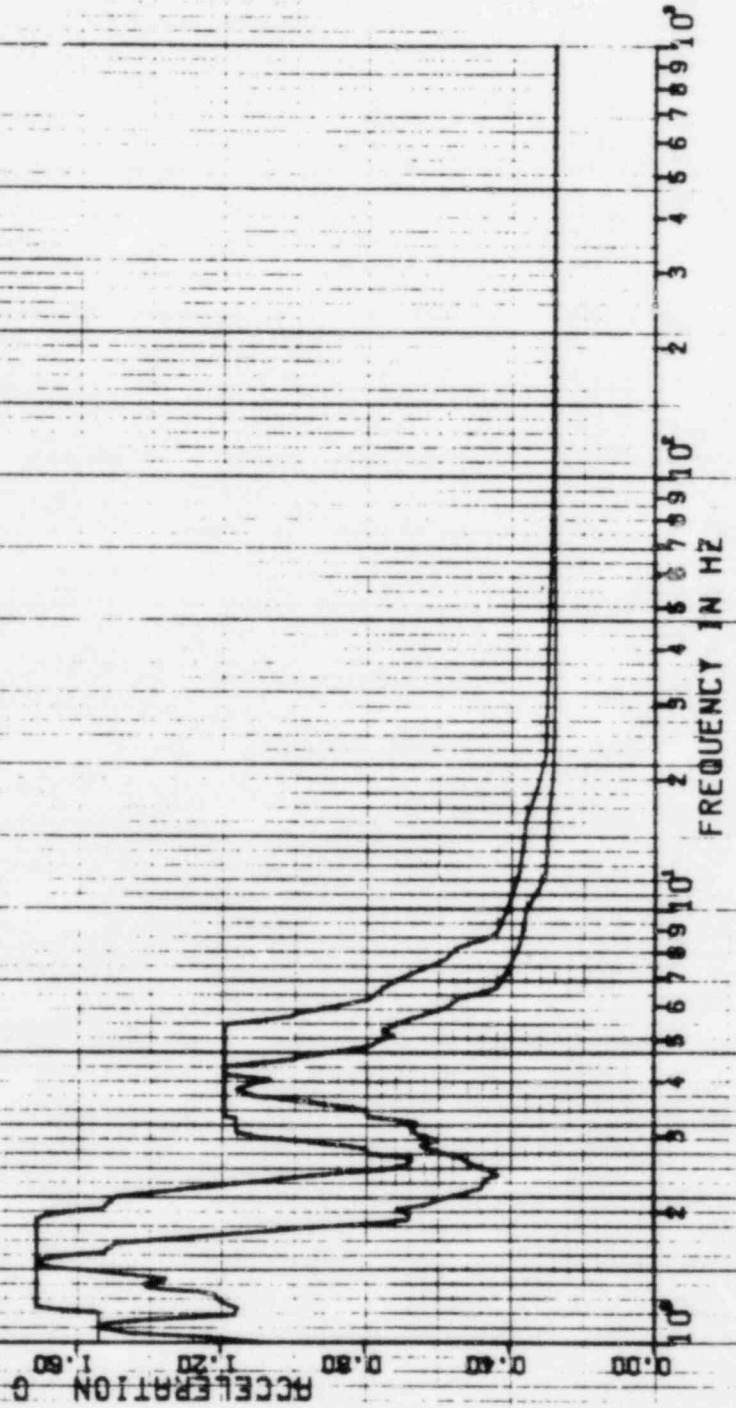
DAMPING VALUE = 0.030

SPECTRA VER 01 LEV 07  
 DULF STATE UTILITIES-R06 UNIT 1-CALC12210-DMIC1-SQE-1903 REV10)  
 ARG OF ACC.-REACTOR BLDG.-LL=192.98.MASS=04 SE16 MODEL-SHIELD BLDG.  
 PEAK SPREAD -20%+25%

1.0 55E HOR DIRECTION

DISK CURVE SET NO.6

DISK CURVE SET NO.6 HOR. PEAK SPREAD FROM 02210-031.030.134 (REV 01)



31.

22 APR 1982

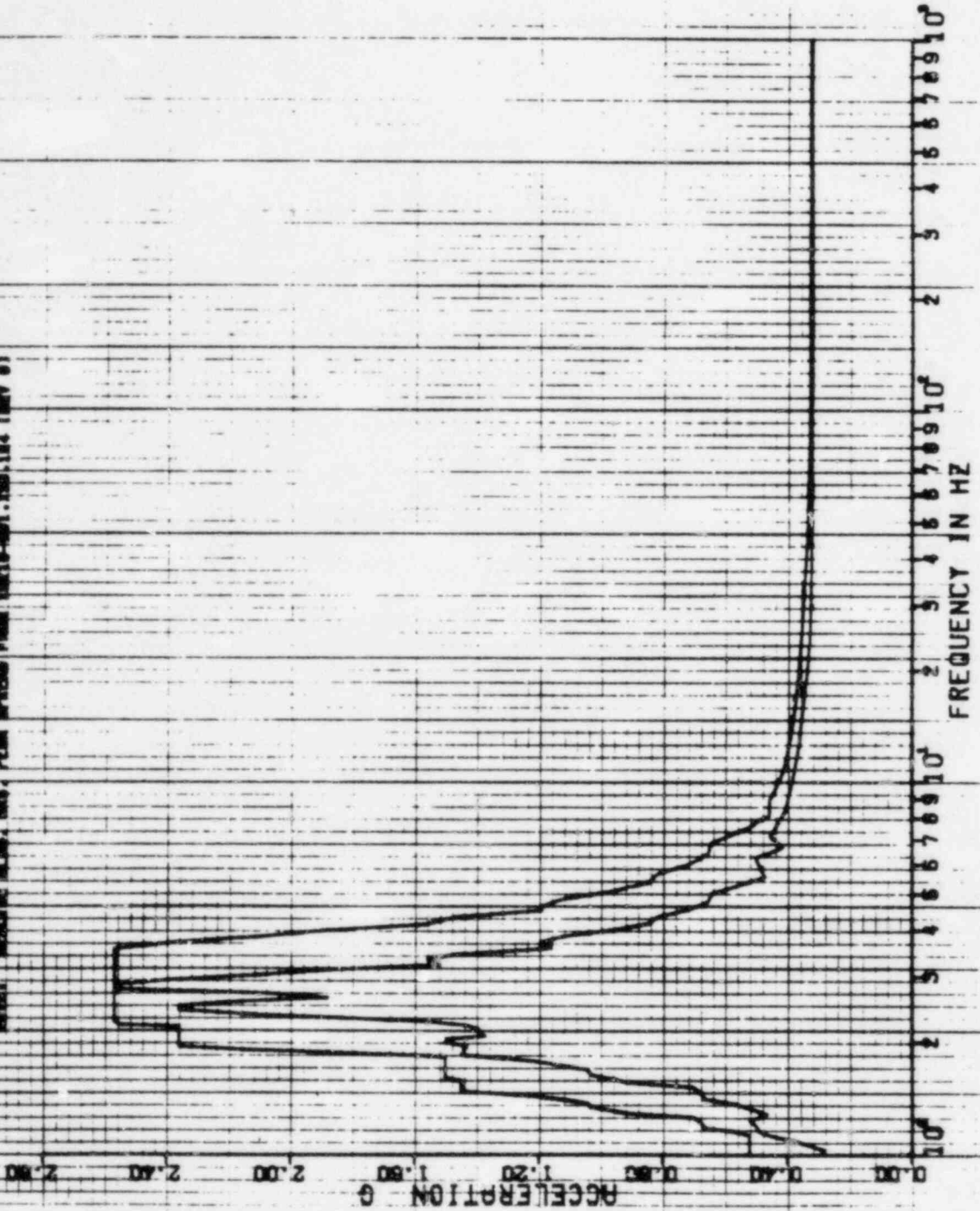
K-KAY

DAMPING VALUE = 0.030

PSPECTRA VER 01 LEV 07  
 DULF STATE UTILITIES-RBS UNIT 1-CALC12210-NM(C)-S0E-1909 REV10)  
 ARG OF ACC.-REACTOR BLDG-EL=192.99, MASS=04 6E16 NOVEL-SHIELD BLDG.  
 PERK APEND -20X.125X  
 DFBY CURVE SET NO.6

1.0 SSE VER DIRECTION

NETAL INCREASING IN 180. FROM SPREAD FROM (0.010-101.135-184 (REV 0)





400.4

22 APR 1982

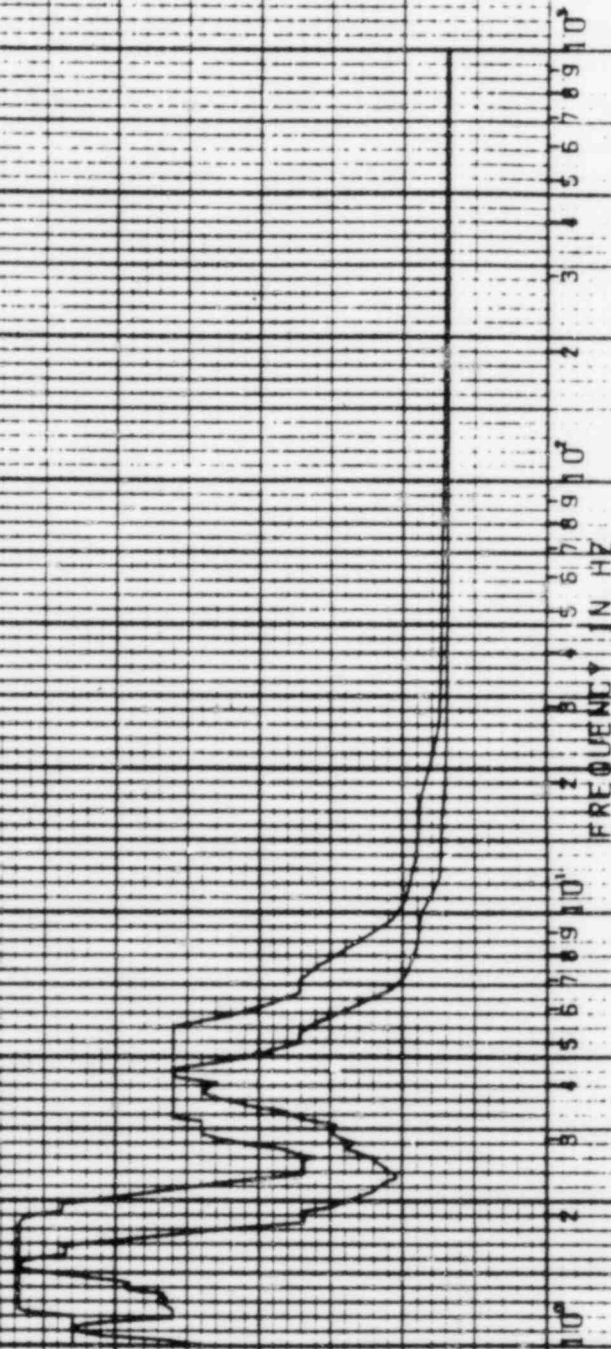
K. KRY

DAMPING VALUE = 0.040

SPECTRA VER DA LEV D7  
 DULF STAVE UYI UYI 5-RBS UNY I-CALC IZTID-NMTJ-50E-1988 REV D1  
 RRS DF RCLL-RECYDR BLOC-EL-192-99-TRASS-DA SEFS MODEL-SHIELD BLOC  
 PEAK SPREAD -20K-25K  
 DISK CURVE SET NO. 5  
 A-D SSE HDR DIRECTION

NOTE: REACTOR M.D. RKS 7EAK SPREAD FROM 1220-2000 (SOLID LINE b1)

REGENERATION G



D. 1000 1.500 2.000 2.500 3.000 3.500 4.000 4.500 5.000 5.500 6.000 6.500 7.000 7.500 8.000 8.500 9.000 9.500 10.000



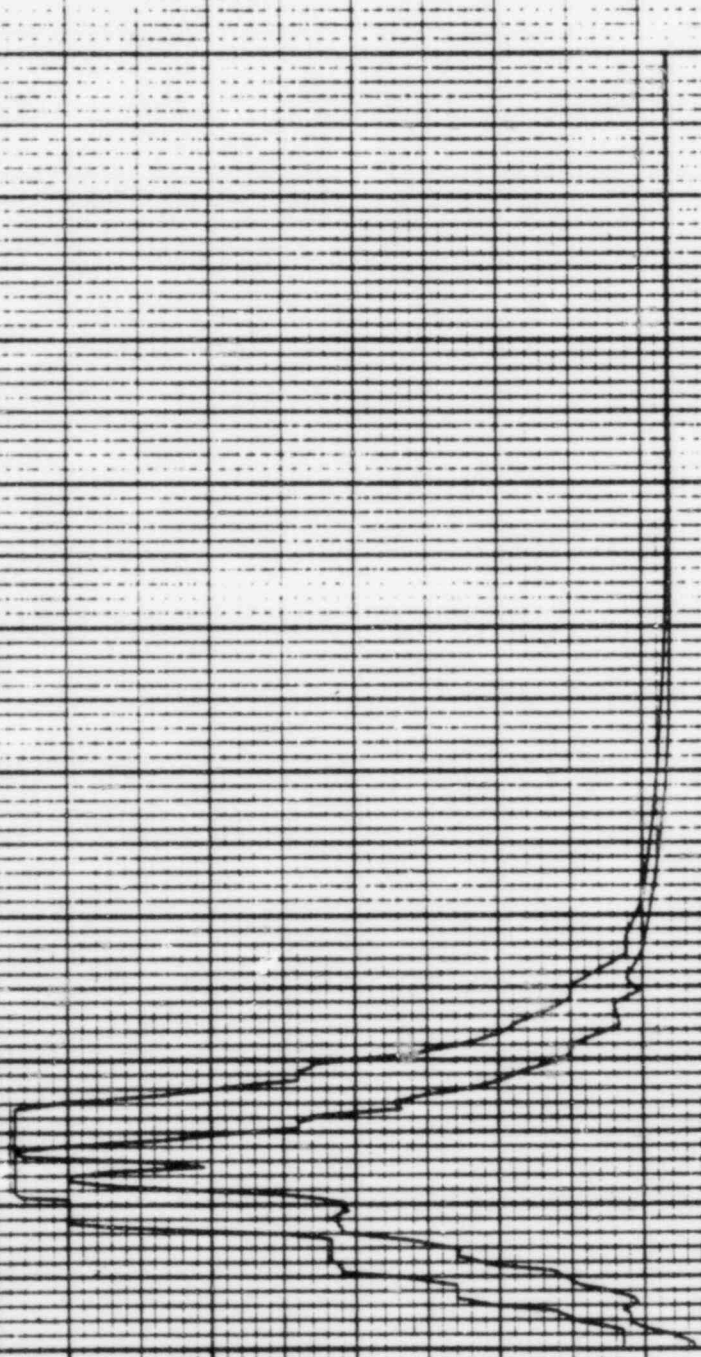
22 APR 1982

K. KRY

DAMPING VALUE = 0.040

PSECTRA VER DA LEV 07  
 CULF STATE UTILITY RES-885 UNIT 1-CALC 12810-NHTC-50E-1988 REV 03  
 RRS OF ACC. REACTOR BLOC. EL-132.89. MASS-DM SEIS MODEL-SHIELD BLOC  
 PEAK SPREAD 1.20V. 25V  
 DISK CURVE SET NO. 5  
 A. D. SSE VER DIRECTION

NOTE: REACTOR BLOC. RRS. PEAK SPREAD /NOI (2218-201.130.14 (NEW 5)



10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup>  
 0 1.0 2.0 2.5  
 FREQUENCY IN HZ

RECELHEMATION  
 0 1.0 2.0 2.5

PSPECTRA VER 01 LEV 07

DULF STATE UTILITIES-RBS UNIT 1--CALC12210-MM(C)-502-1903 REV(10)  
RBS OF ACCL-REACTOR BLDG. EL=159.32, MASS=05 SE16 MODEL-6MFIELD BLDG.  
PEAK SPREAD -20Z, +25Z

DISK CURVE SET NO.7

0.5 SSE

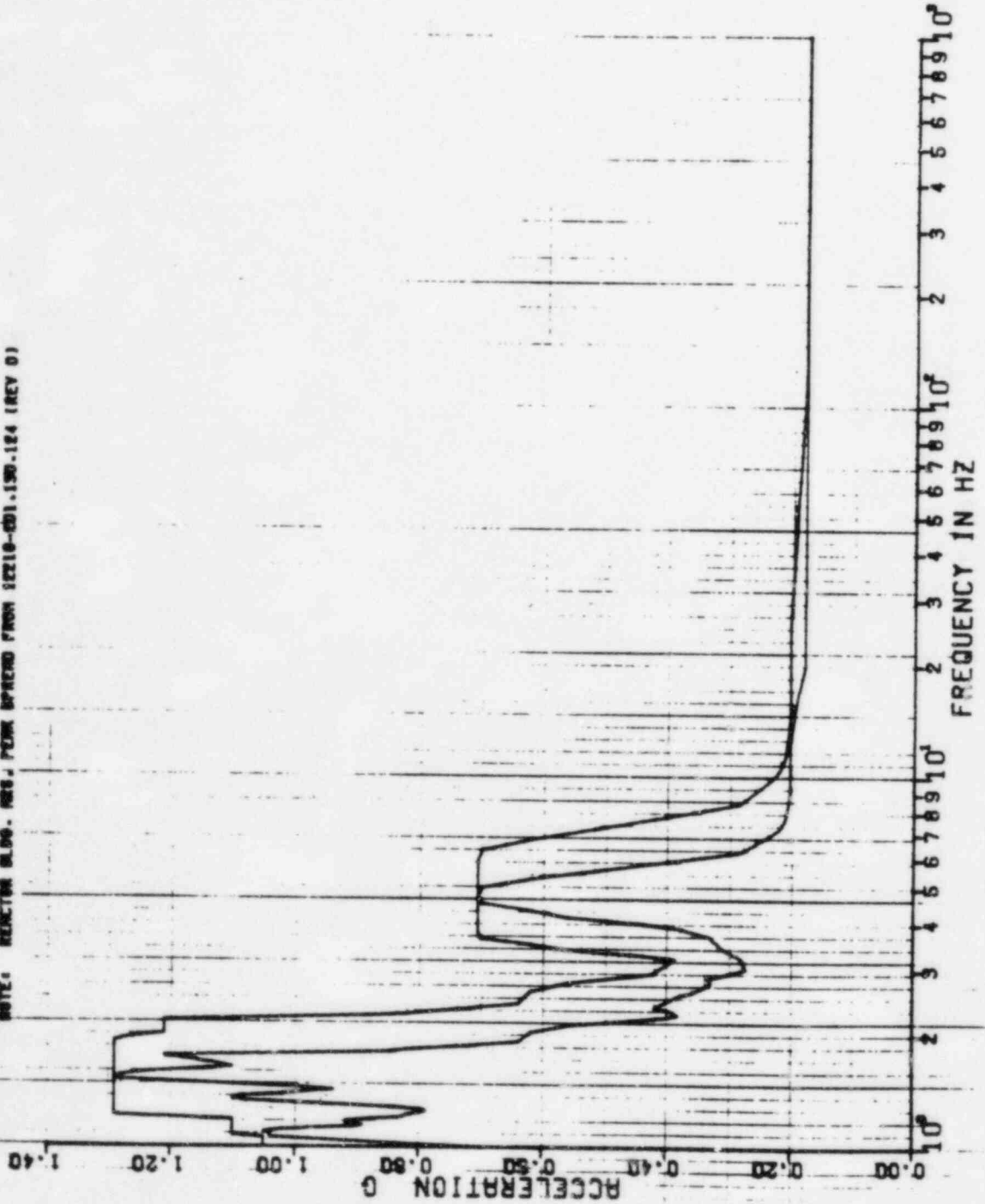
MRD DIRECTION

DAMPING VALUE = 0.020

K.KRAY

22 APR 1982

NOTE: REACTOR BLDG. RBS, PEAK SPREAD FROM SEC10-001.130-124 (REV 0)



22 APR 1962

PSPECTRA VER 01 LEV 07

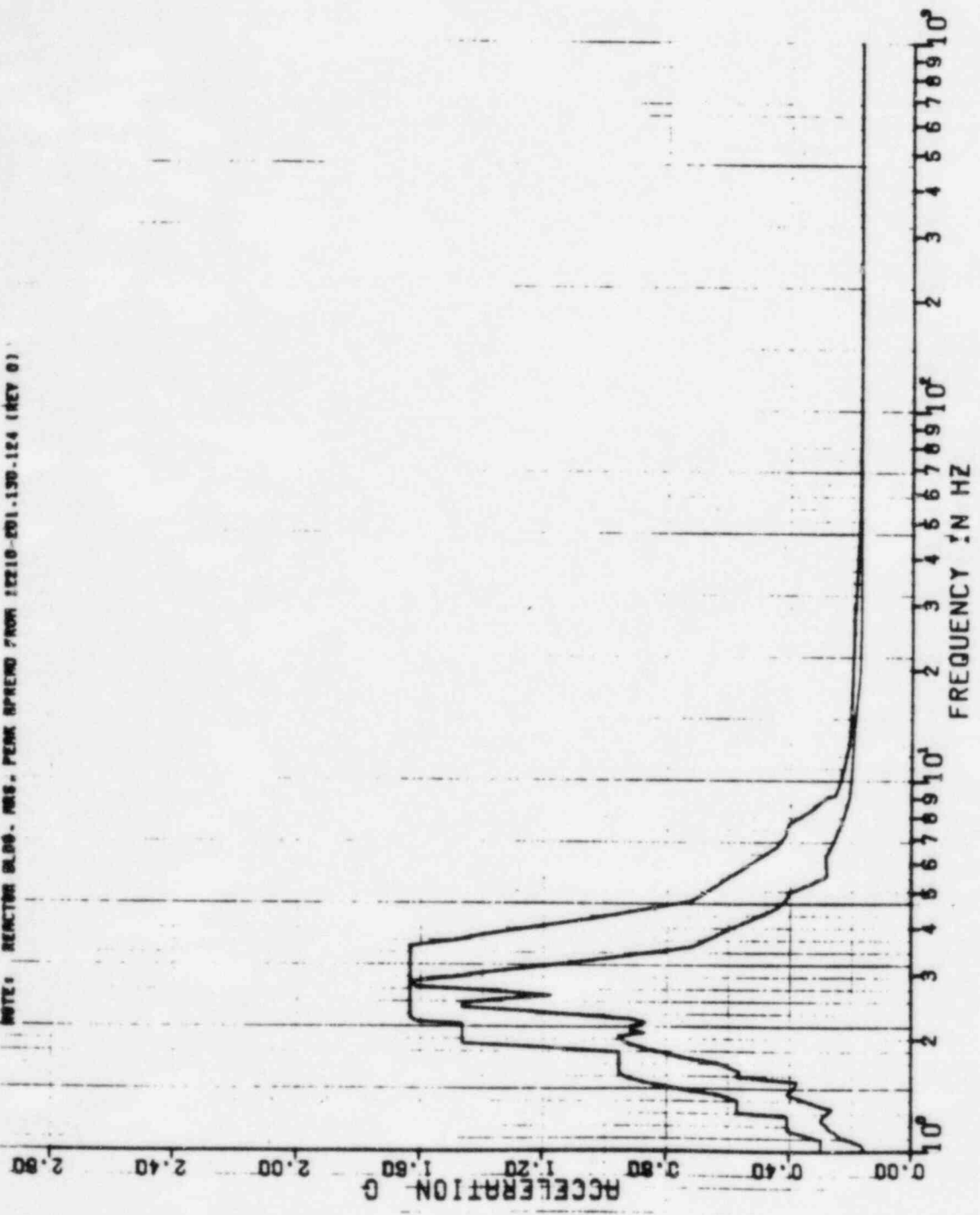
GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(0)  
RRE OF ACC.-REACTOR BLDG.-EL-153.32.MASS=05 SEIS MODEL-SHIELD BLDG.  
PEAK SPREAD -20%.+25%  
OBE

K.KRAY

DISK CURVE SET NO.7 0.5 SSE VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RMS. PEAK SPREAD FROM 12210-201.130-124 (REV 0)



619A

8 FEB 1965

K. KRY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 08  
 GULF STATES UTILITIES-RBS: UNIT 1-CALC(2210-NR1C)-50L-1903 REV(1)  
 RRS OF ACC.-REACTOR BLDG., EL=153.32, MASS=05 SE16 MODEL-5XFIELD 8L00  
 PEAK SPREAD -20Z +25Z  
 DISK CURVE SET NO. 8  
 1.0 56E MOR DIRECTION  
 NOTE: REACTOR BLDG. RRS. PEAK SPREAD FROM 12210-201.150-124 18CY 01

ACCELERATION G

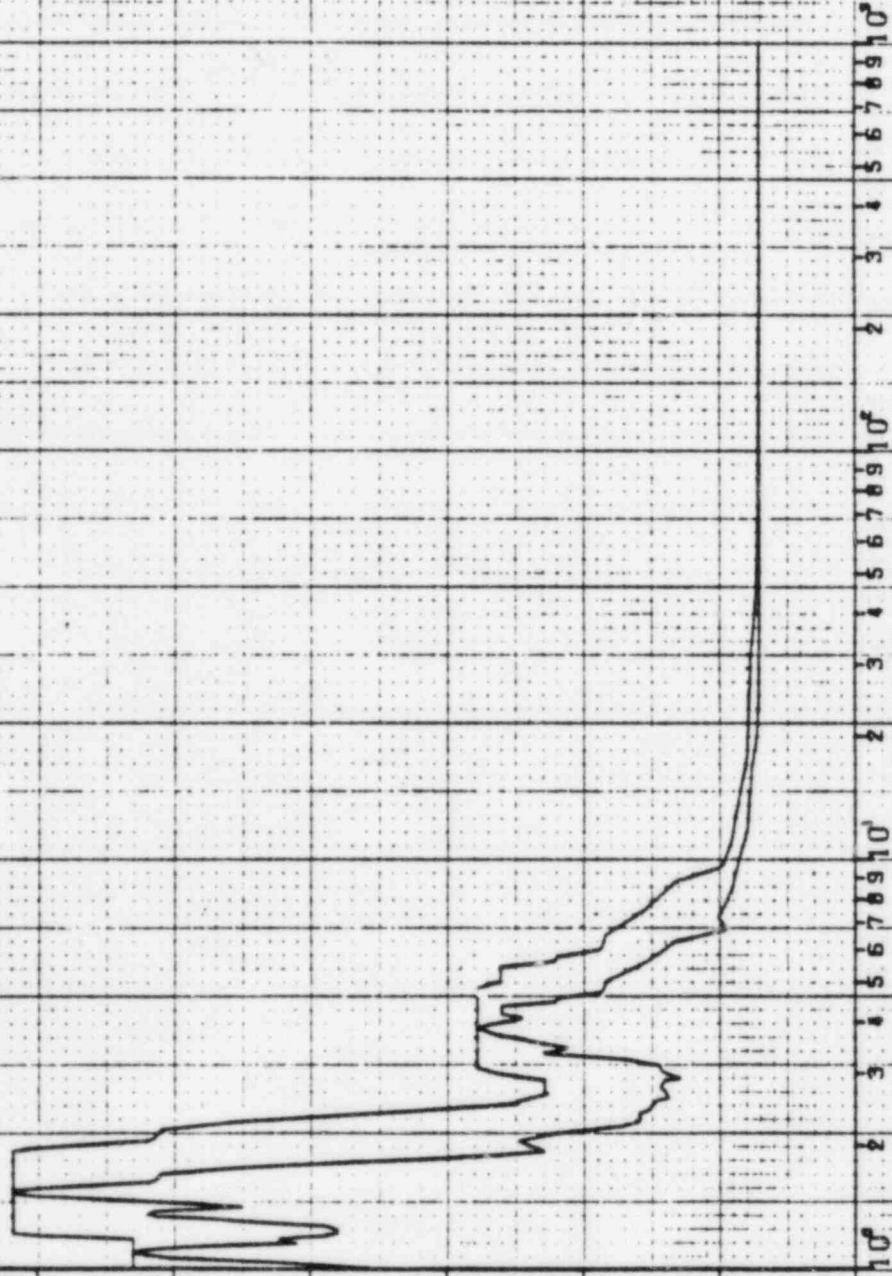
10<sup>0</sup>

2 3 4 5 6 7 8 9 10<sup>1</sup>

2 3 4 5 6 7 8 9 10<sup>2</sup>

10<sup>3</sup>

FREQUENCY IN HZ





6579

8 FEB 1983

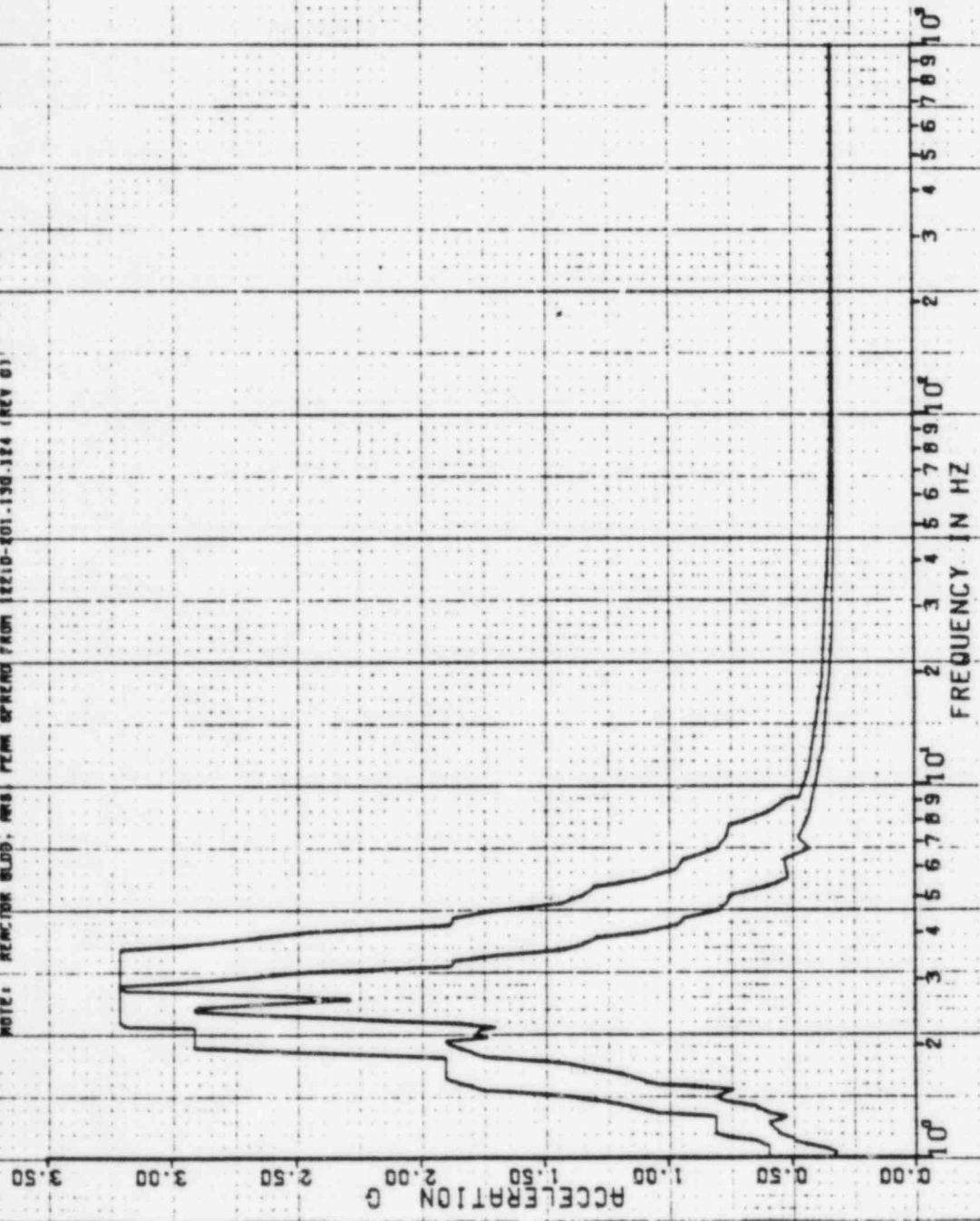
K. MAY

DAMPING VALUE = 0.020

FSPECTRA VER 01 LEV 08  
 GULF STATES UTILITIES-R05 UNIT 1-CALC12210-MM(C)-60E-19D3 REV(1)  
 RRS OF ACC.-REACTOR BLDG., EL-153.32, MASS-05 6E16 MODEL-SHIELD BLDG  
 PEAK SPREAD -20% +25%  
 DISK CURVE SET NO.0

1.0 GSE VER DIRECTION

NOTE: REACTOR BLDG, RRS, PEAK SPREAD FROM 12210-101.150.124 (REV 0)



10<sup>0</sup> 10<sup>1</sup> 2 3 4 5 6 7 8 9 10<sup>0</sup> 10<sup>1</sup> FREQUENCY IN HZ



22 APR 1982

5.34

PSPECTAR VER 01 LEV 07

DOLF STATE UTILITIES-RBS UNIT 1-CALC12210-NM(C)-60E-1903 REV(0)  
RBS OF ACC.-REACTOR BLDG.-EL-163.32.MASS-05 SEIS MODEL-SHIELD BLDG.  
PEAK SPREAD -20Z,+25Z

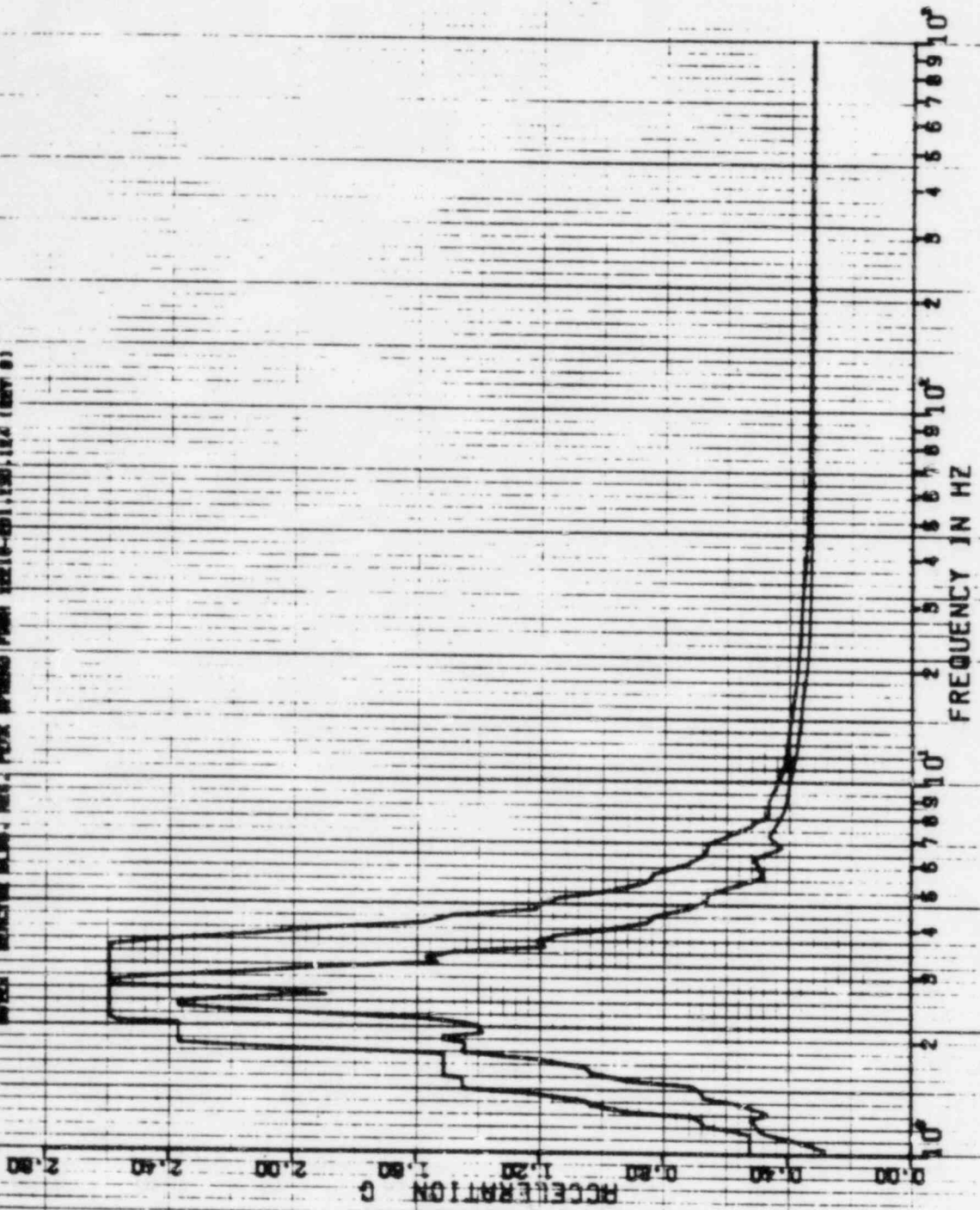
DISK CURVE SET NO.9

1-D 5SE VER DIRECTION

UNITED STATES BLDG. NO.9 PEAK SPREAD FROM 1000-001,100,100 (000 0)

K.KAY

DAMPING VALUE = 0.080





108A

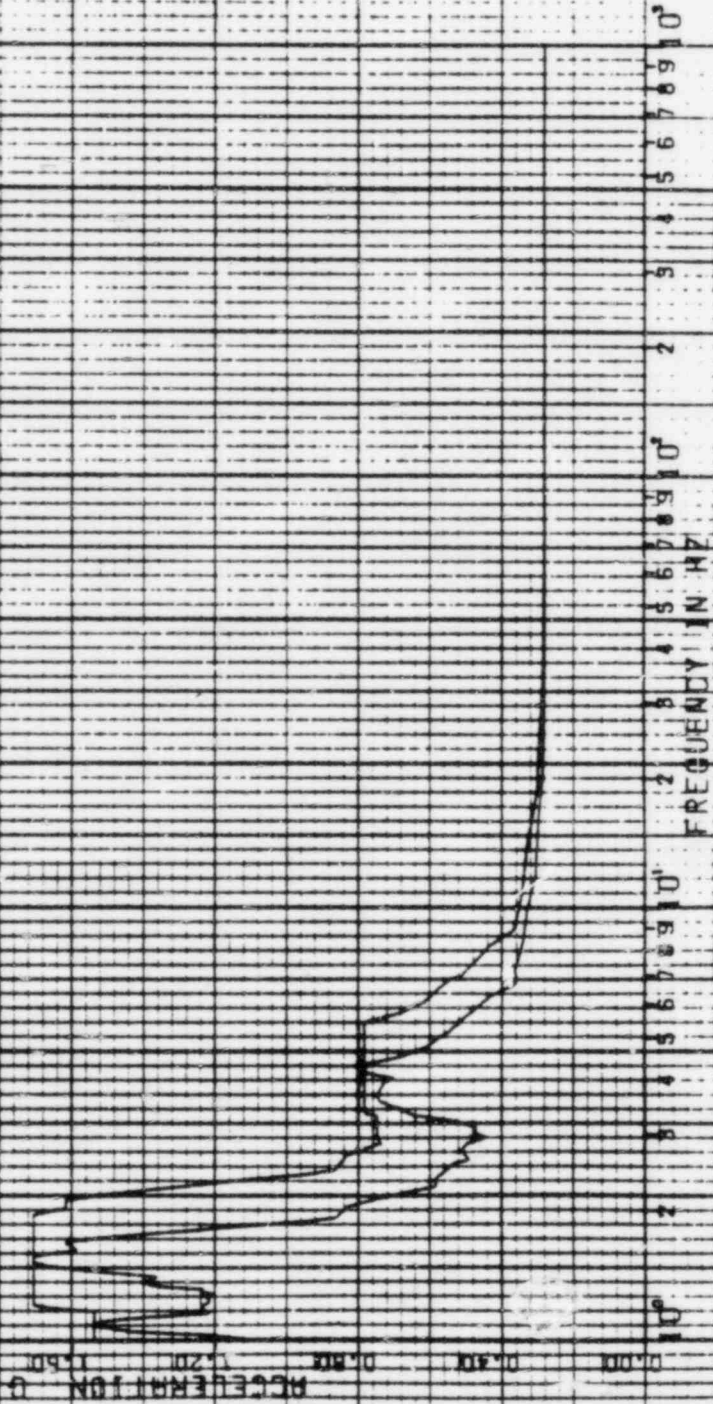
22 APR 1988

K.K.V.

DAMPING VALUE = 0.040

SPECTRA VER 01 LEV 07  
 GULF STATE UTILITIES-RBS UNIT 1-CALC 2210-UNIT 1-SOE-1903 REV 01  
 RPS OF REC-REACTOR BLOC-CL-150-92-MASS-05 SET 5 MODEL-SHIELD BLOC  
 PEAK SPREAD LOG-L-055  
 CURVE SET MD10  
 1.0 55E HDR DIRECTION

NAME: REACTOR BLOC RPS PEAK SPREAD FROM (2210-201) (SOE 1.24) (REV 5)





109A

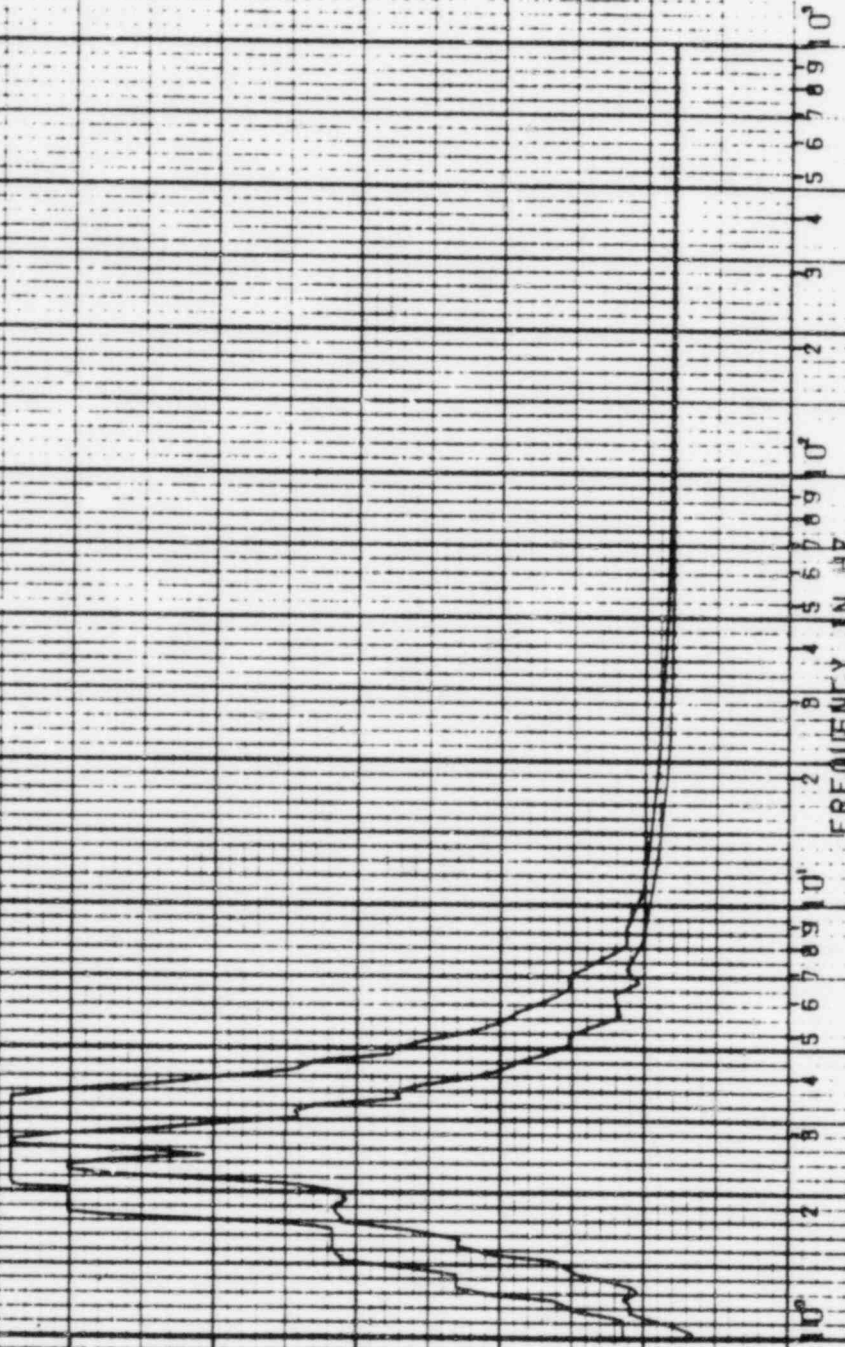
22 APR 1988

K.KRY

DRAFTING VALUE = 0.000

SPECTRA VER DI LEV 07  
 CULF STATE UTILITIES R85 UNIT 1 - CALCULATED - UNIT 1 - 500 KEV (6)  
 APS OF ACC. REACTOR BLOC. EL. 159.92. MASS. DE SEIS. MODEL. SAHLEO (LOC  
 PEAK SPREAD - 0.02. 1.25K  
 DISK CURVE SET NO. 8  
 1.0.55E VER DIRECTION  
 NOTE: REACTOR BLOC. R85 - PLEX SPACED FROM 10210-201. 130. 14. 166V (6)

0.00  
 0.40  
 0.80  
 1.20  
 1.60  
 2.00  
 2.40  
 2.80  
 RECEPTION C



10^0  
 2  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 10^1  
 FREQUENCY IN HZ

PSPECTRA VER 01 LEV 07

22 APR 1982

DULF STATE UTILITIES-RB6 UNIT 1-CALC12210-NMIC)-6QE-1903 REV(0)  
RR6 OF ACC.-REACTOR BLDG.EL=179.65.MASS=06 SEIS MODEL-SHIELD BLDG.  
PEAK SPREAD -20%+25% OBE

K.KAY

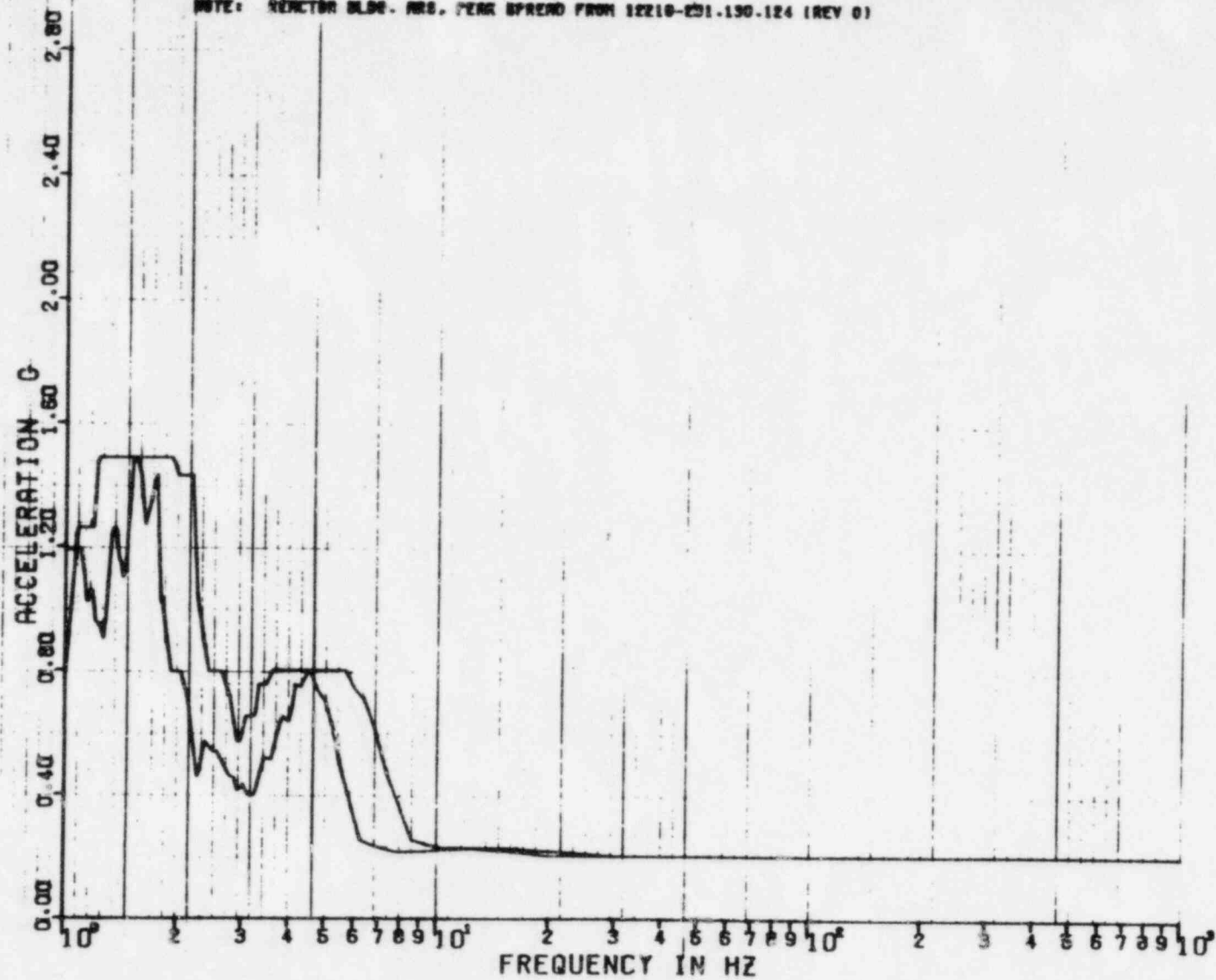
DISK CURVE SET NO.9

0.5 SSE

HOR DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RR6. PEAK SPREAD FROM 12210-231.130.124 (REV 0)



REF 74

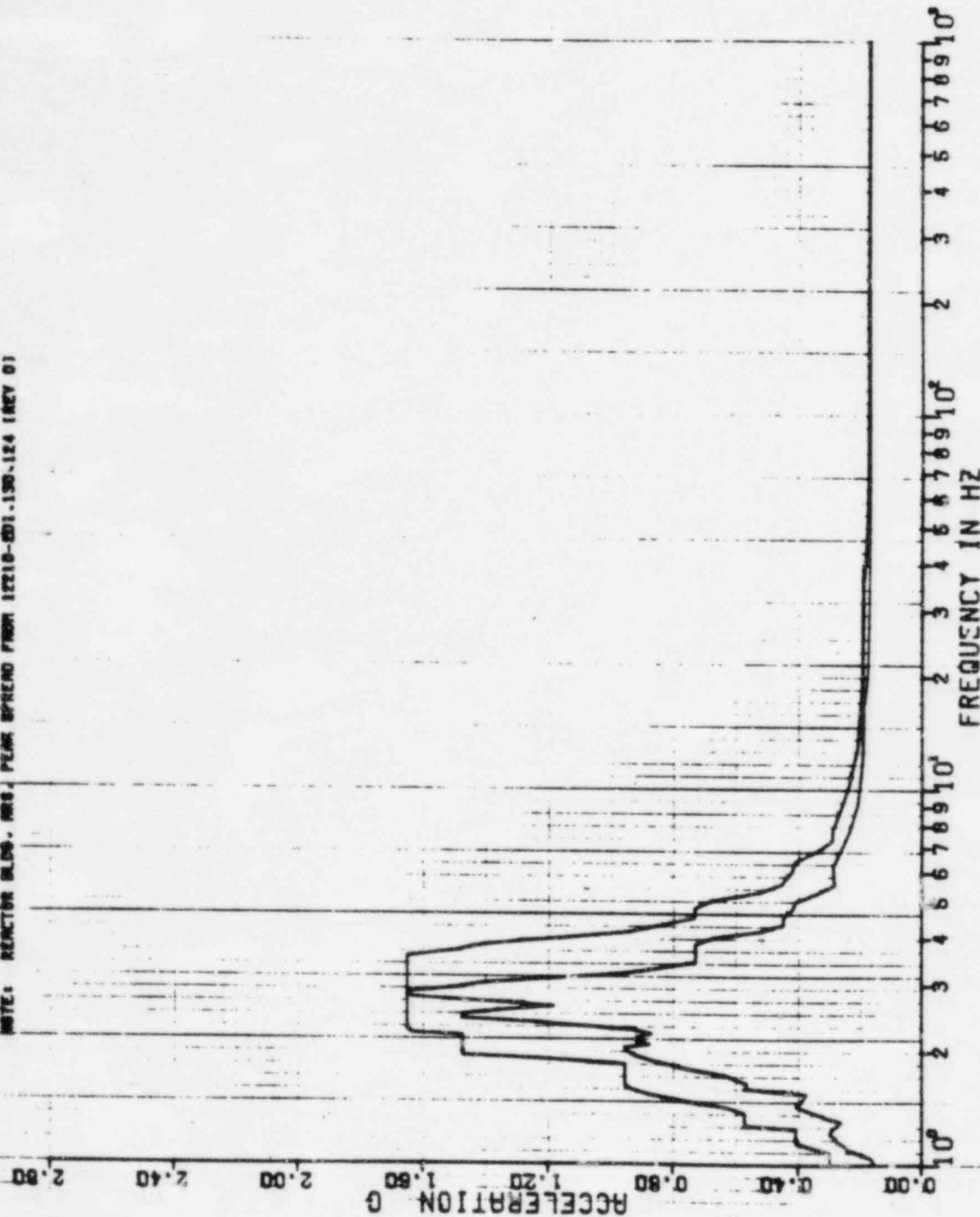
22 APR 1962

PSPECTRA VER 01 LEV 07  
GULF STATE UTILITIES-R86 UNIT 1-CALC12210-NM(C)-SQE-1903 REV10)  
R86 OF REACTOR BLDG. EL=173.65, MASS=05 SE16 MODEL-SHIELD BLDG.  
PEAK SPREAD -20Z.+25Z

K. KAY  
DAMPING VALUE = 0.020

DISK CURVE SET NO.9 0.5 SSE VER DIRECTION

NOTE: REACTOR BLDG. R86, PEAK SPREAD FROM 12210-001.150-124 (REV 0)



6-12

8 FEB 1963

K. MAY

DAMPING VALUE = 0.020

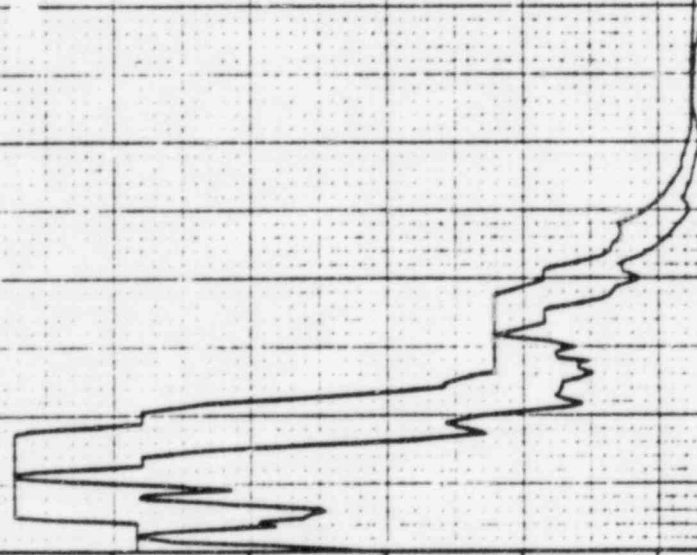
PGSPECRA VER 01 LEV 08  
DULF STATES UTILITIES-RBS UNIT 1-CALC12210-MHIC1-50E-1963 REV117  
RRS OF ACC.-REACTOR BLDG.-EL-173.65, MASS=06 5E16 MODEL-GH1E1™ BLDG  
PEAK SPREAD -20% +25%

DISK CURVE SET NO.10  
1.0 SEC MOR DIRECTION

NOTE: REACTOR BLDG. RBS. PEAK SPREAD FROM 12210-101.130.124 (REV 0)

ACCELERATION G

FREQUENCY IN HZ





8 FEB 1983

K. KAY

DAMPING VALUE = 0.020

PSPECTR VER 01 LEV 08  
 GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MM1C1-50E-1903 REV11)  
 RRS OF ACC.-REACTOR BLDG.-EL-173-65, MASS-06 5E16 MODEL-SHIELD BLDG  
 PEAK SPREAD -20Z +25Z

VER DIRECTION

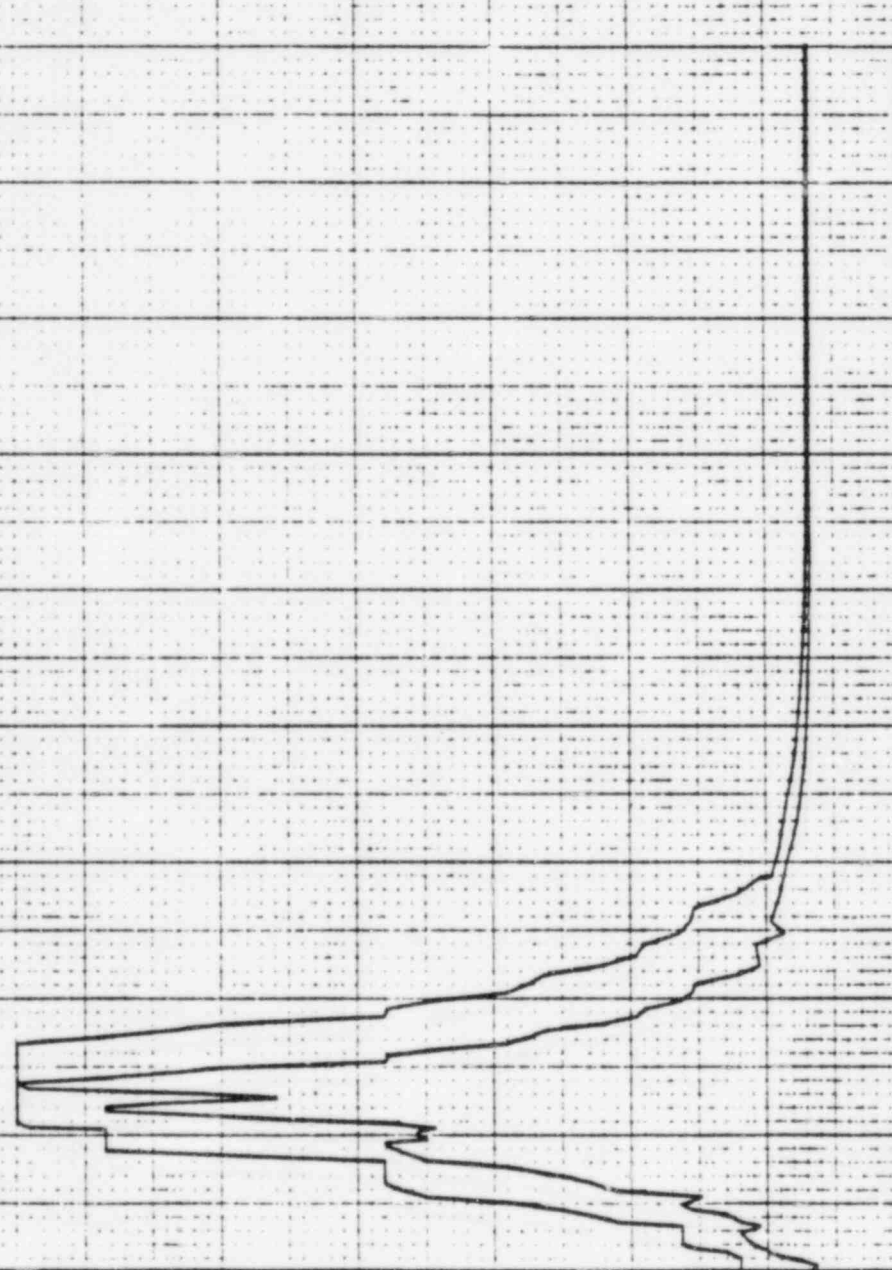
1.0 55E

DISK CURVE SET NO-10

NOTE: REACTOR BLDG, RRS, PEAK SPREAD FROM 12210-201.130.124 (REV D)

ACCELERATION G

FREQUENCY IN HZ



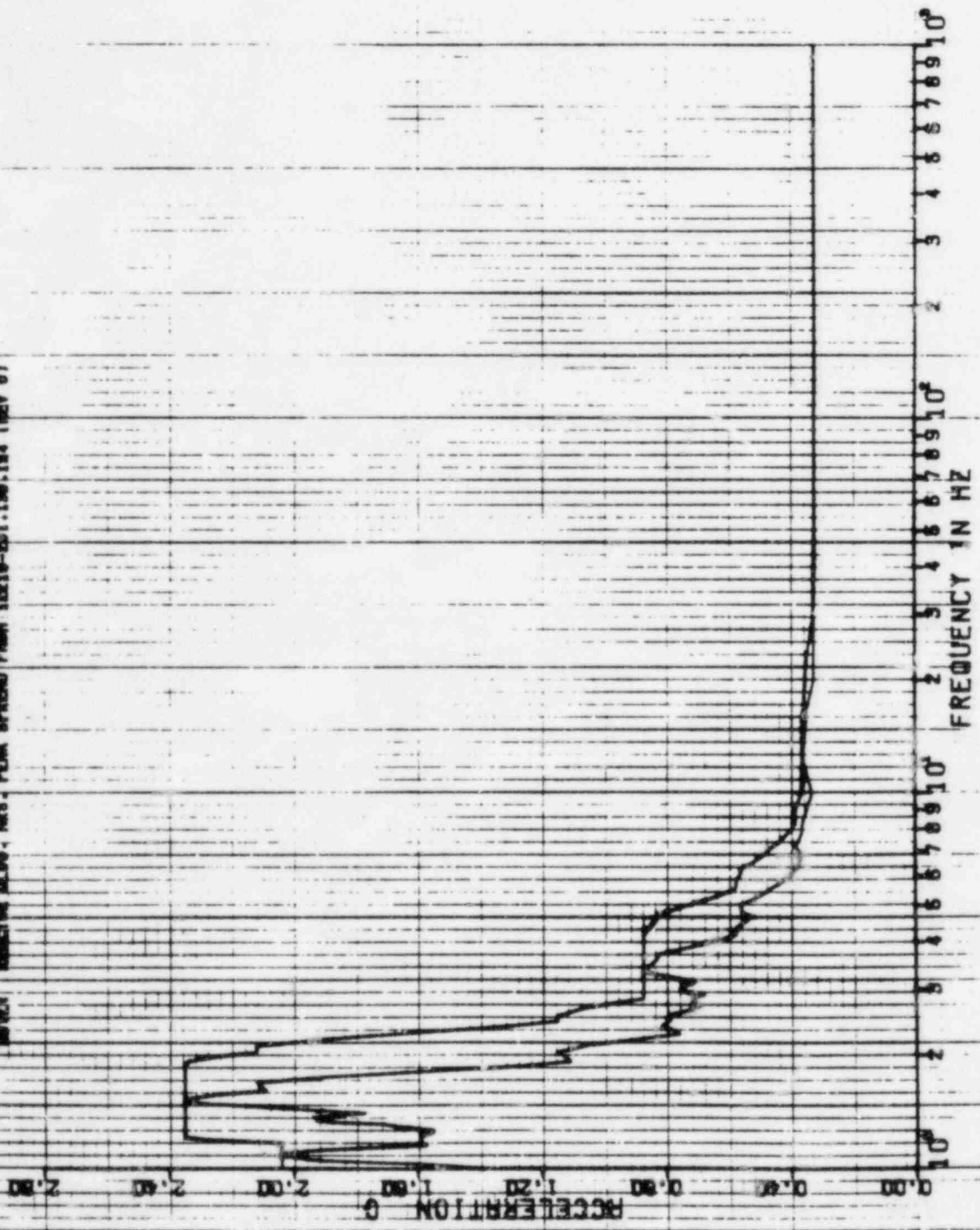
22 APR 1982 31

SPECTRA VER 01 LEV 07  
SULF STATE UTILITIES-RSS UNIT 1-CALC12210-MM(C)-SSE-1909 REV(0)  
RMS OF ACC.-REACTOR BLDG. EL=179.65, MASS=06 FT'S MODEL-SHIELD BLDG.  
PEAK SPREAD -20Z,+25Z

DAMPING VALUE = 0.050

1.0 SSE HOR DIRECTION

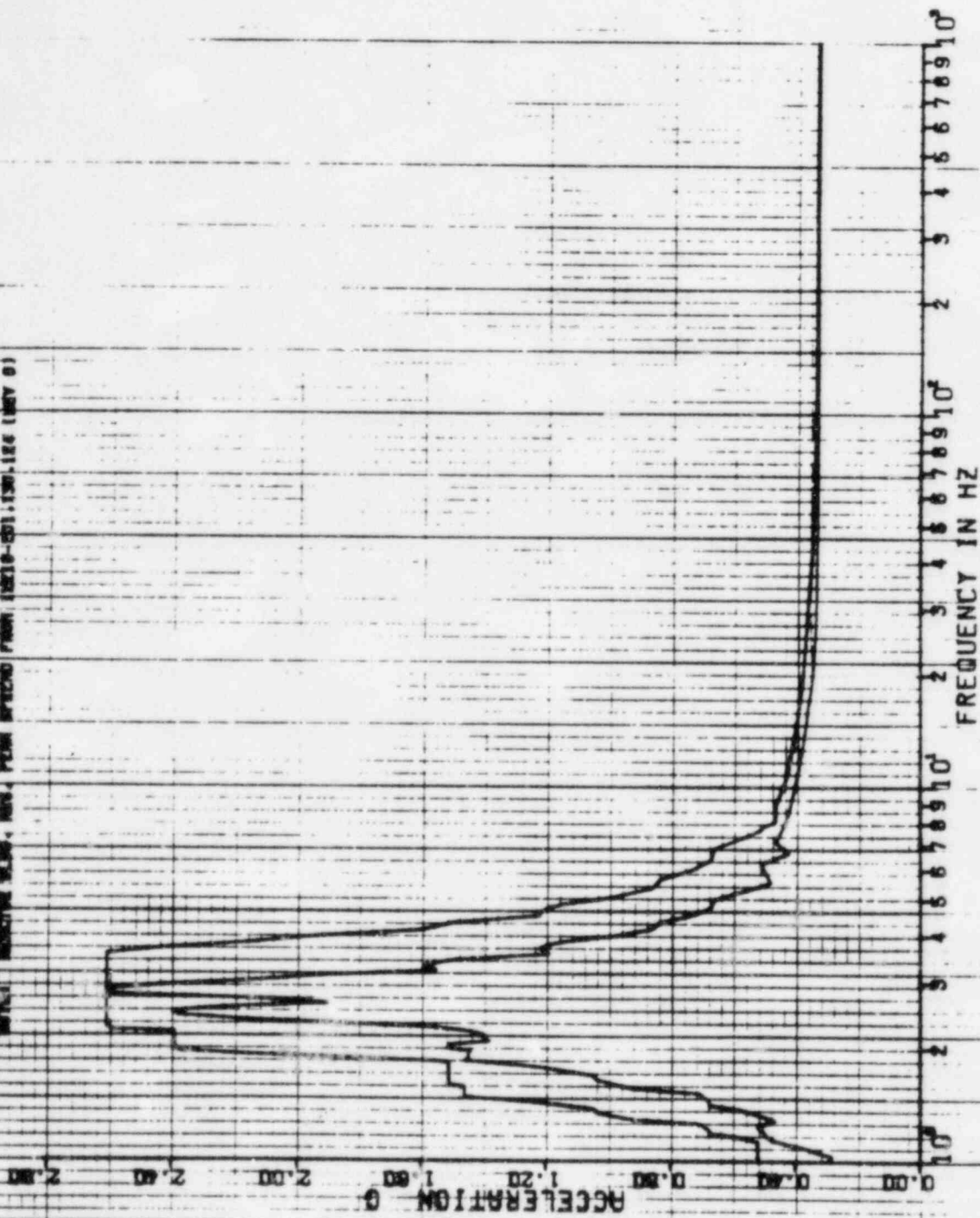
DISK CURVE SET NO.10  
MATH: INVERTED SLDG. NEG. PEAK SPREAD FROM 10010-251.196,194 (REV 0)



22 APR 1962 345A

K. KAY  
DAMPING VALUE = 0.050

PSPECTRA VER 01 LEV 07  
DULY STATE UTILITIES-RBB UNIT 1-CALC(2210-WMIC)-80E-1903 REV(0)  
RBS OF REC.-REACTOR BLDG.-EL=179.65, MASS=06 6E16 MODEL-SHIELD BLDG.  
PENS. SPEND -EDZL-25X  
DISK CURVE SET NO. 10  
1.0 SSE VER DIRECTION  
TOTAL MEASURED MASS, MIN. PEAK SPEED FROM (2210-25) 1.30E+12 (REV 9)





118A

22 APR 1982

R. KAY

DAMPING VALUE = 0.010

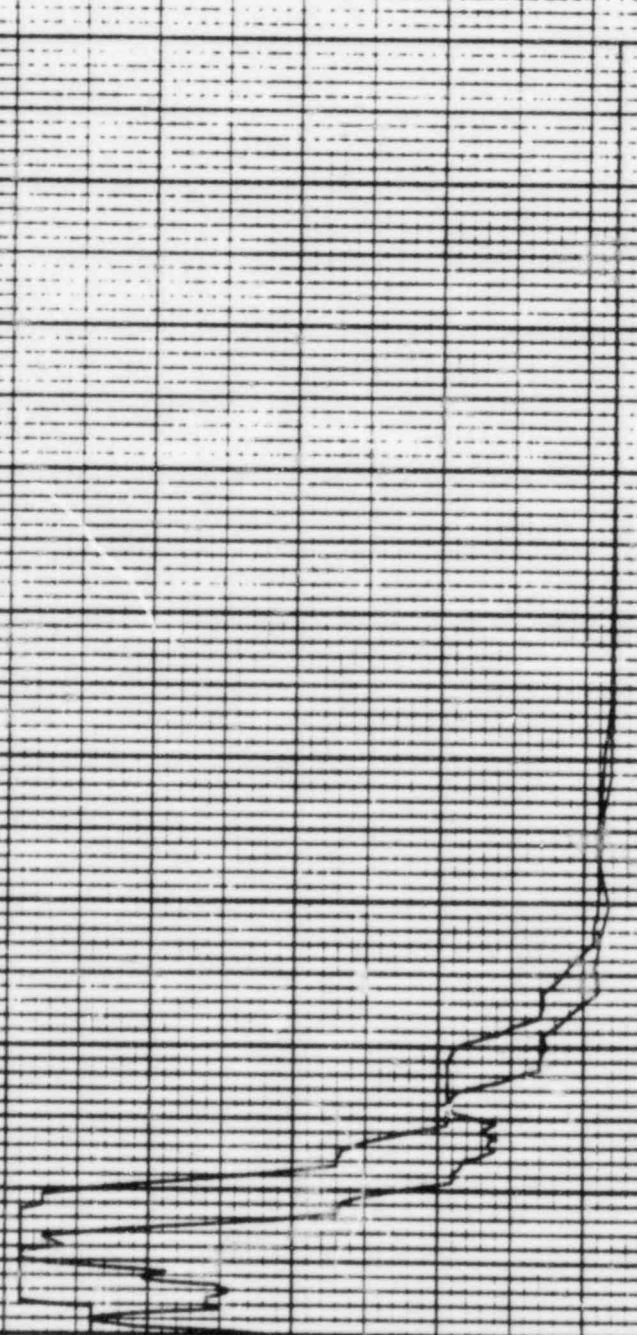
PSPECTRA VER 101 LEV 07  
 CULF STATE UTIL 175-RBS UNIT 1-CALC 122 (UNIT 1)-501-903 REV 10  
 RES OF ACC-REACTOR ULOG EL=178.65, MASS=06 SETS MODEL-SMILEC BLOC  
 PEAK SPREAD 1.20V, 1.25V  
 S.E.

DISK CURVE SET NO. 10

1.0 SSE HDR DIRECTION  
 NOTE: REACTOR ULOG HAS PEAK SPREAD (MOR) (2018-20) 130 134 (REV. 8)

RECESSION 0  
 0.00 0.50 1.00 1.50 2.00 2.50

FREQUENCY IN HZ  
 10<sup>0</sup> 2 3 4 5 6 7 8 9 10<sup>1</sup>  
 10<sup>0</sup> 2 3 4 5 6 7 8 9 10<sup>1</sup>  
 10<sup>0</sup> 2 3 4 5 6 7 8 9 10<sup>1</sup>





INSPECTOR VER 10 LEV 07  
GULF STATE UTILITIES-RBS UNIT -CALC 22 10 1987  
RPS OF ACC + REACTOR BLOC CL - 73.65 MASS-06 SE S MODEL-SHIELD BLOC  
PEAK SPREAD 1.201 1.257

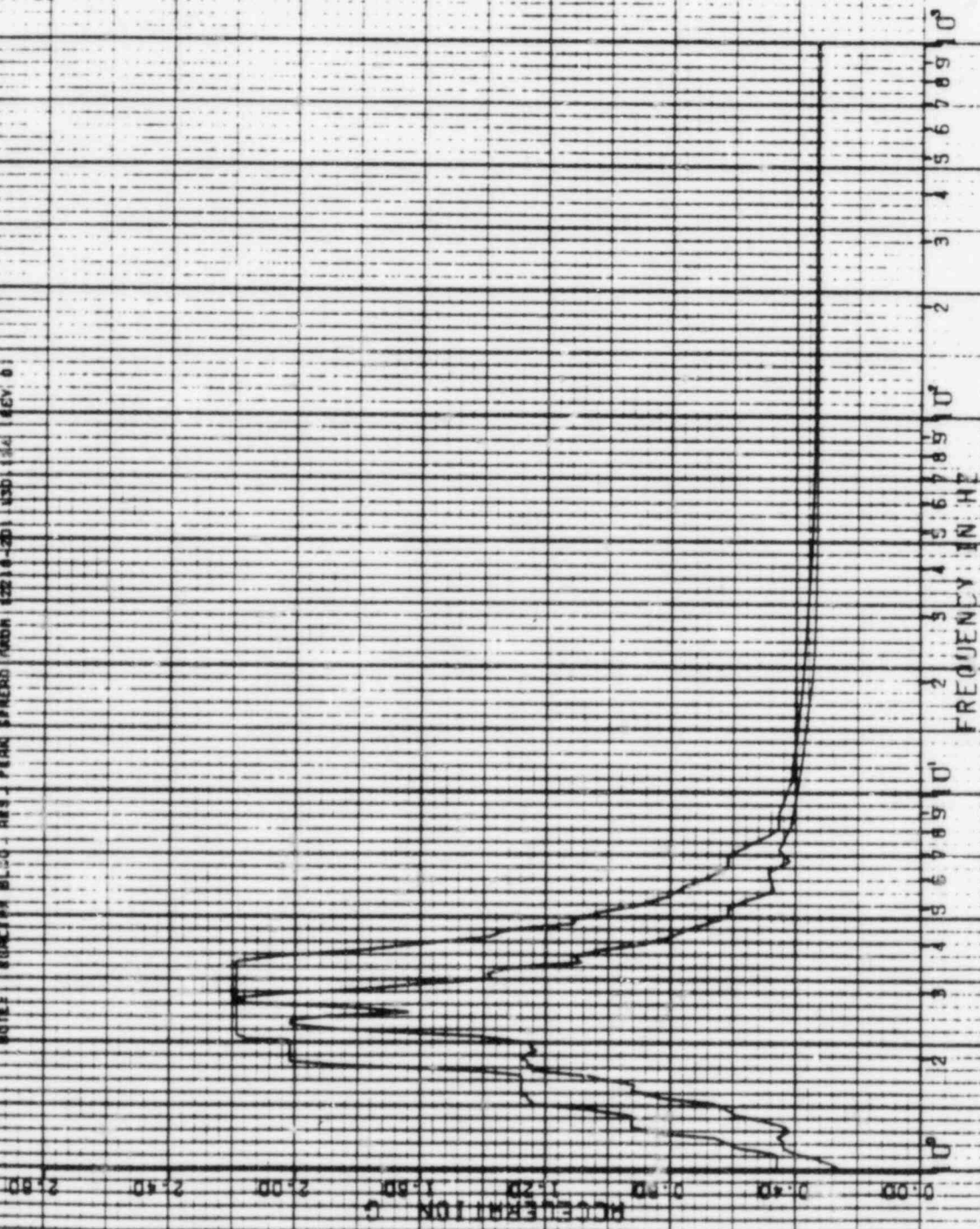
DISK CURVE SET NO. 10

NOTE: DIRECTION BLOC HAS PERIC SPINERD (MOR 12210-201) USB (3A) 14CV 6

1.0 SSE VER DIRECTION

DAMPING VALUE = 0.010

22 APR 1987  
K. KAY



11A

22 APR 1962

2.4

K-KAY

DAMPING VALUE = 0.020

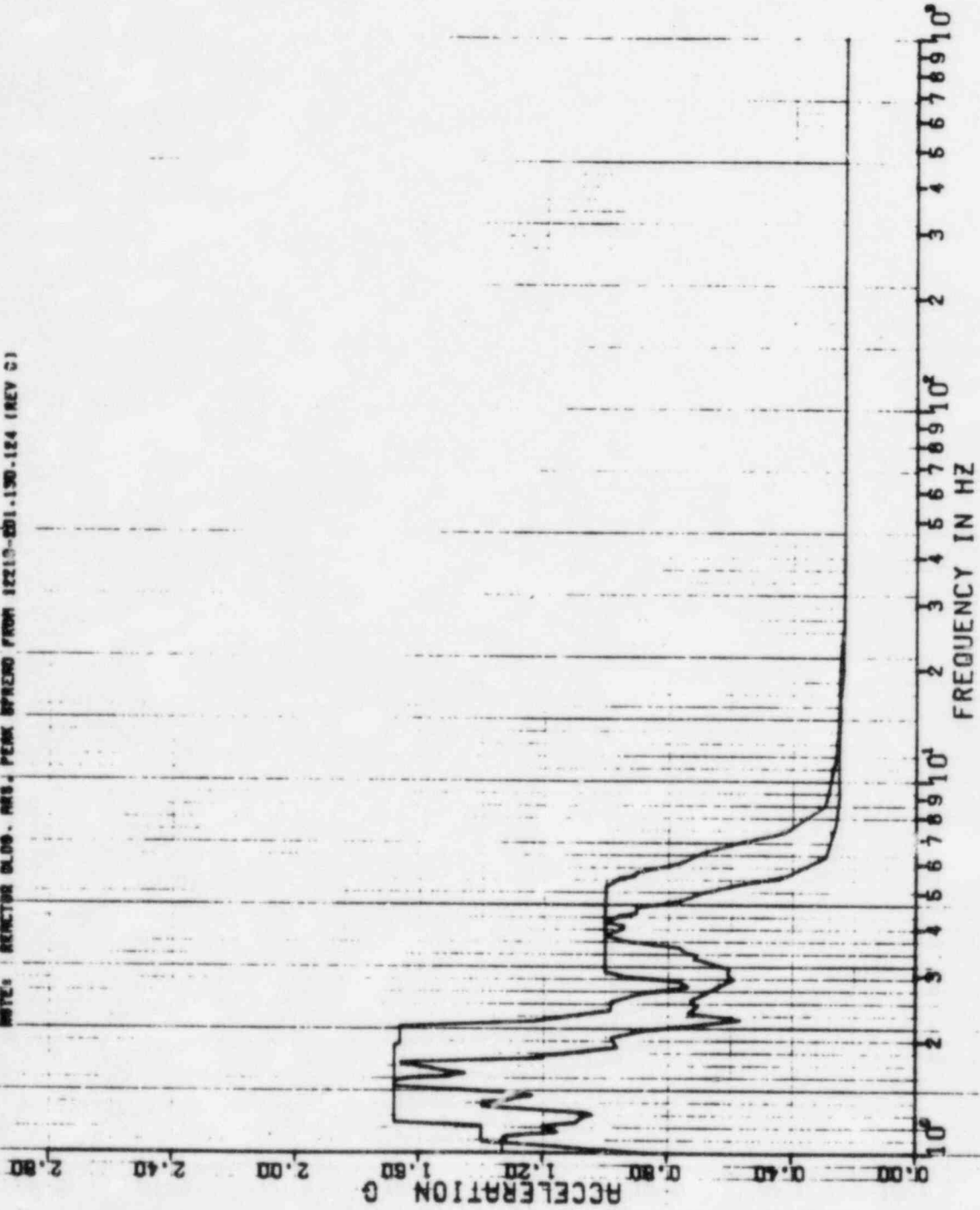
PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RGS UNIT 1-CALC(12210-Nm(C)-50E-1903 REV(0)  
RMS OF ACC.-REACTOR BLDG.-EL.-193.98.MASS=07 SEIS MODEL-SHIELD BLDG.  
PEAK SPREAD -20%.+25Z

DISK CURVE SET NO.11

0.5 SSE MOR DIRECTION

NOTE: REACTOR BLDG. RMS. PEAK SPREAD FROM 12210-001.130-124 (REV C)



22 APR 1982

2.14

PSPECTRA VER 01 LEV 07

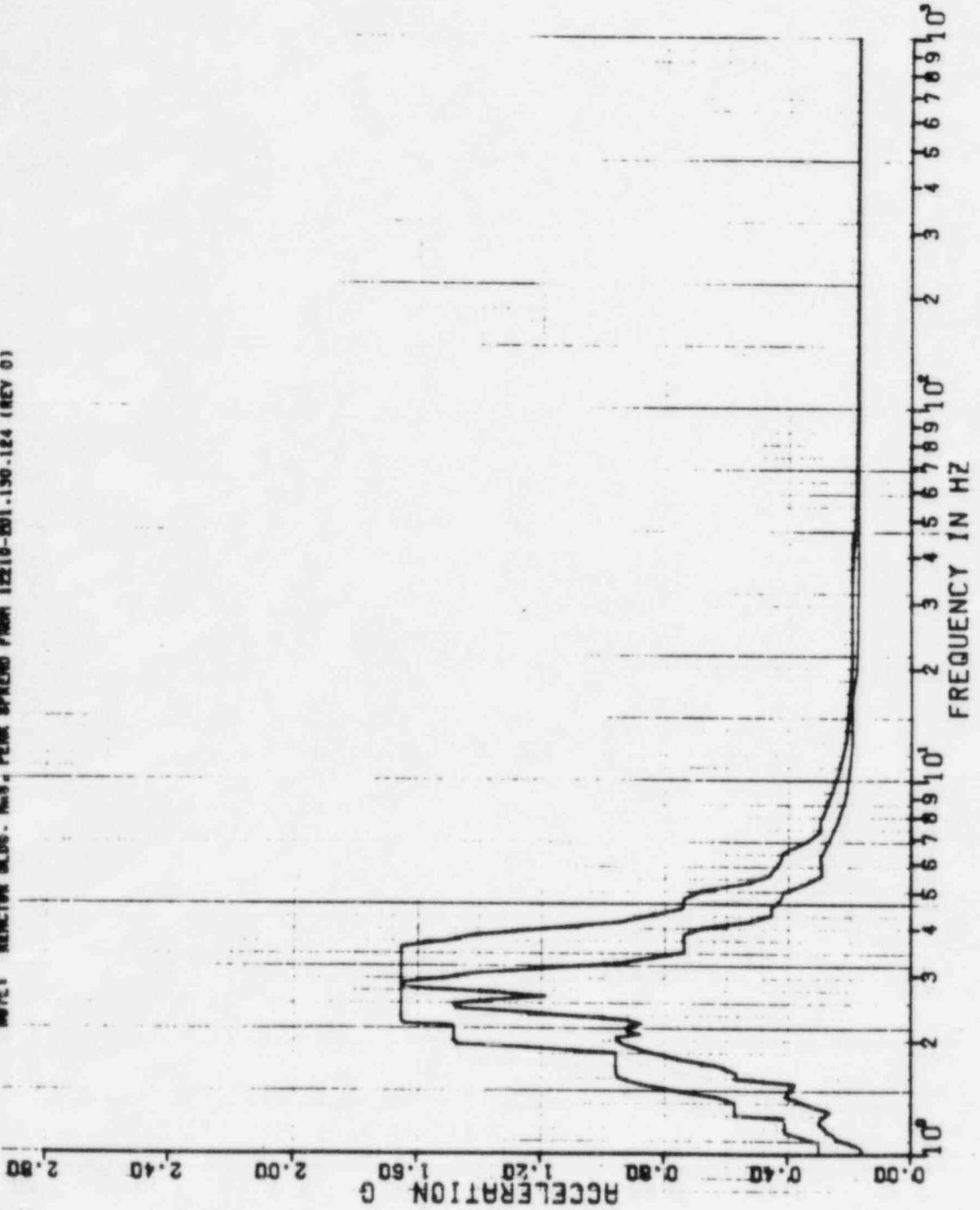
DULF STATE UTILITIES-R06 UNIT 1-CALC12210-MM(C)-60E-1903 REV(0)  
R06 OF ACC.-REACTOR BLDG.-EL-193.98.MASS=07 SEIS MODEL-SHIELD BLDG.  
PEAK SPREAD -20Z.+25Z

K.KAY

DAMPING VALUE = 0.020

DISK CURVE SET NO.11 0.5 SSE VER DIRECTION

NOTE: REACTOR BLDG. R06, PEAK SPREAD FROM 12210-201.190-124 (REV 0)



PSPECTRA VER 01 LEV 08

GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MMIC7-60E-1903 REV111  
RRS OF ACC.-REACTOR BLDG., EL-193.99, MASS=07 6E16 MODEL-SHIELD BLDG  
PEAK SPREAD -20Z +25Z

DISK CURVE SET NO. 12

1.0 6SE MOR DIRECTION

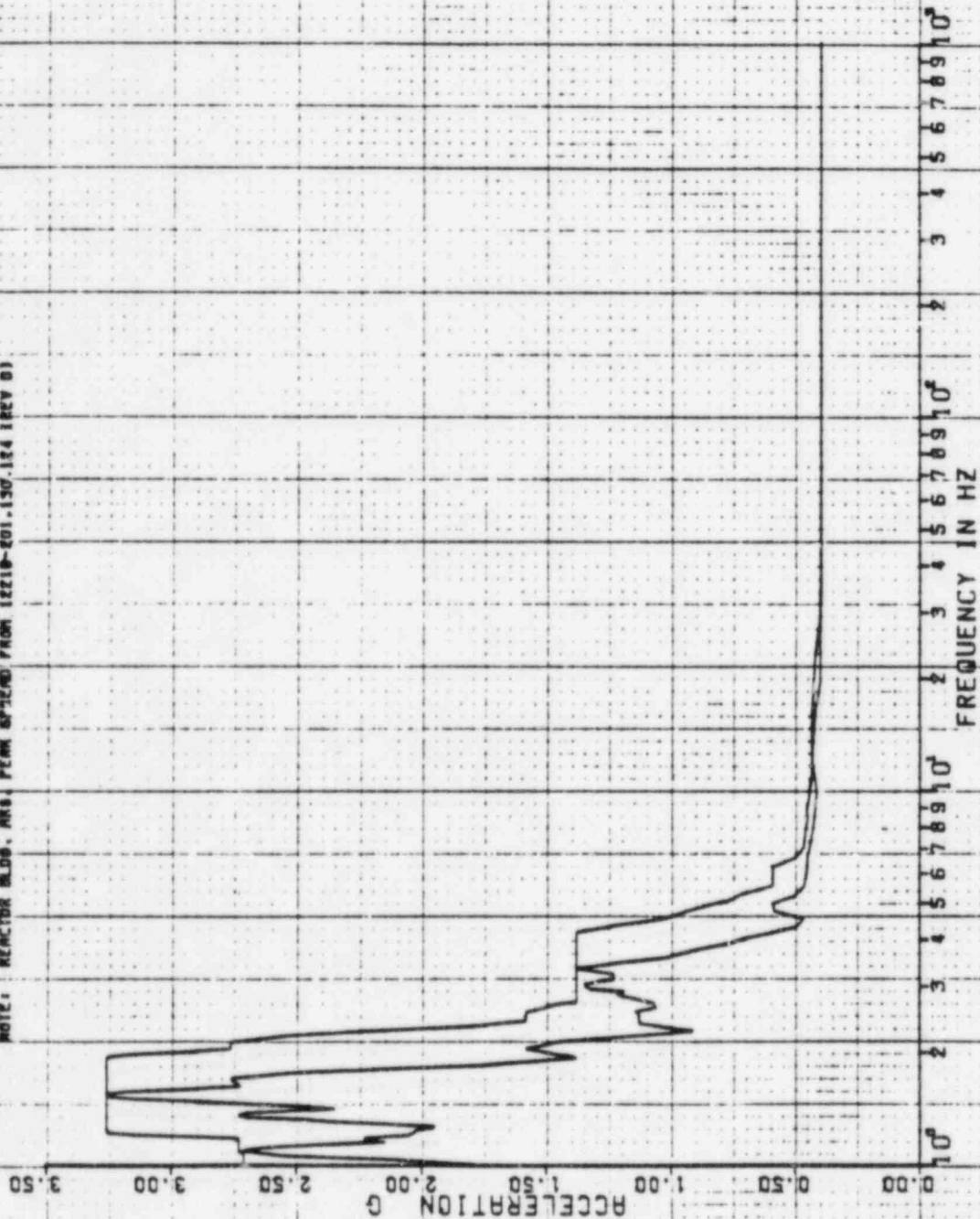
NOTE: REACTOR BLDG. RRS. PEAK SPREAD FROM 12210-201.130.184 1REV 01

6 FEB 1963

6.6A

K. KAY

DAMPING VALUE = 0.020



10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup>  
0.00 0.50 1.00 1.50 2.00 2.50 3.00 3.50  
2 3 4 5 6 7 8 9 10  
2 3 4 5 6 7 8 9 10  
3 4 5 6 7 8 9 10



PSPECTRA VER 01 LEV 08

8 FEB 1983

61.4

GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-6DE-19D3 REV(1)  
RRS OF ACC.-REACTOR BLDG...EL=193.98, MASS=07 SE16 MODEL-SHIELD BLDG  
PEAK SPREAD -20% +25% 6SE

K. KAY

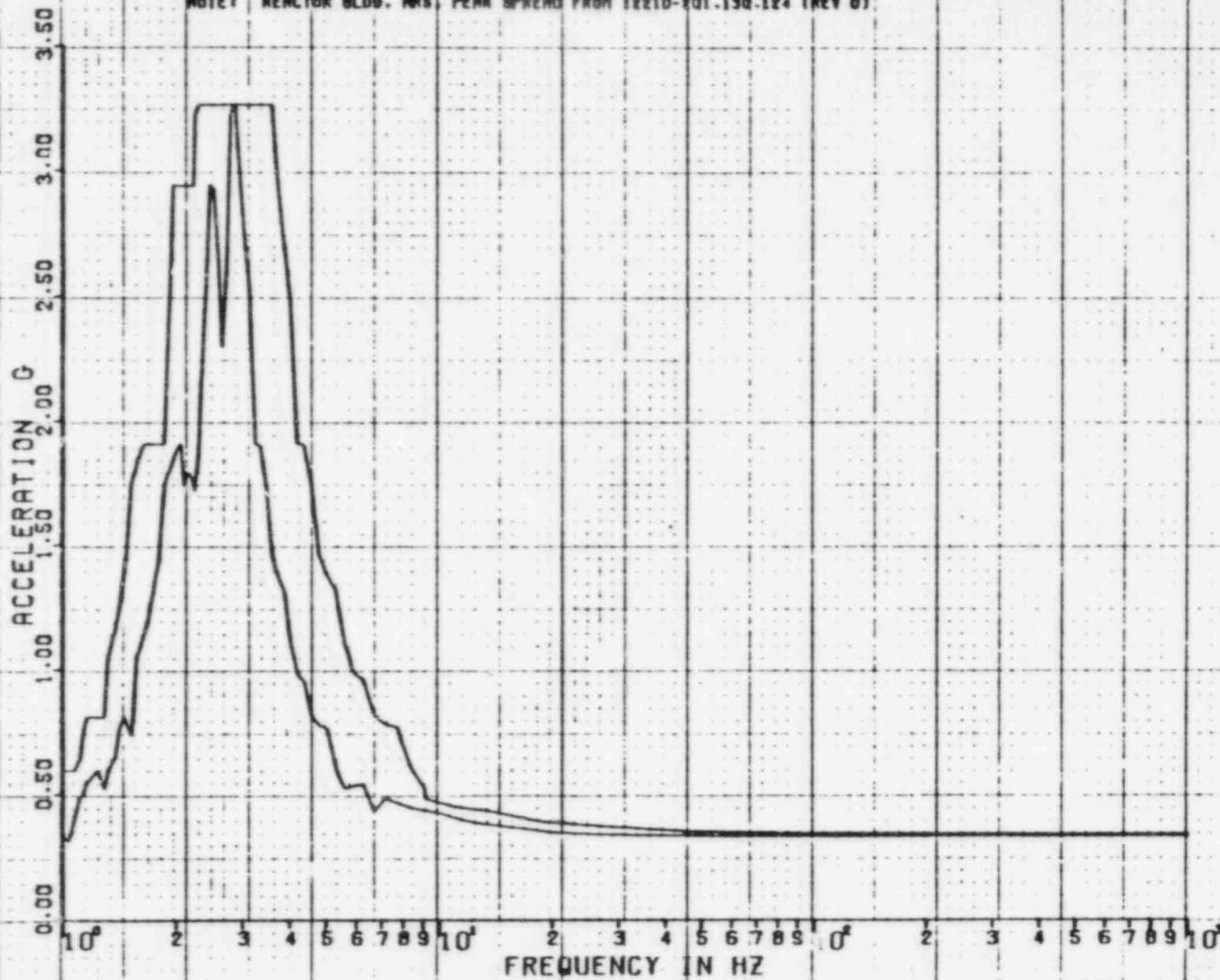
DISK CURVE SET NO.12

1.0 6SE

VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RMS PEAK SPREAD FROM 12210-101.130-124 (REV 0)



REF 75 1

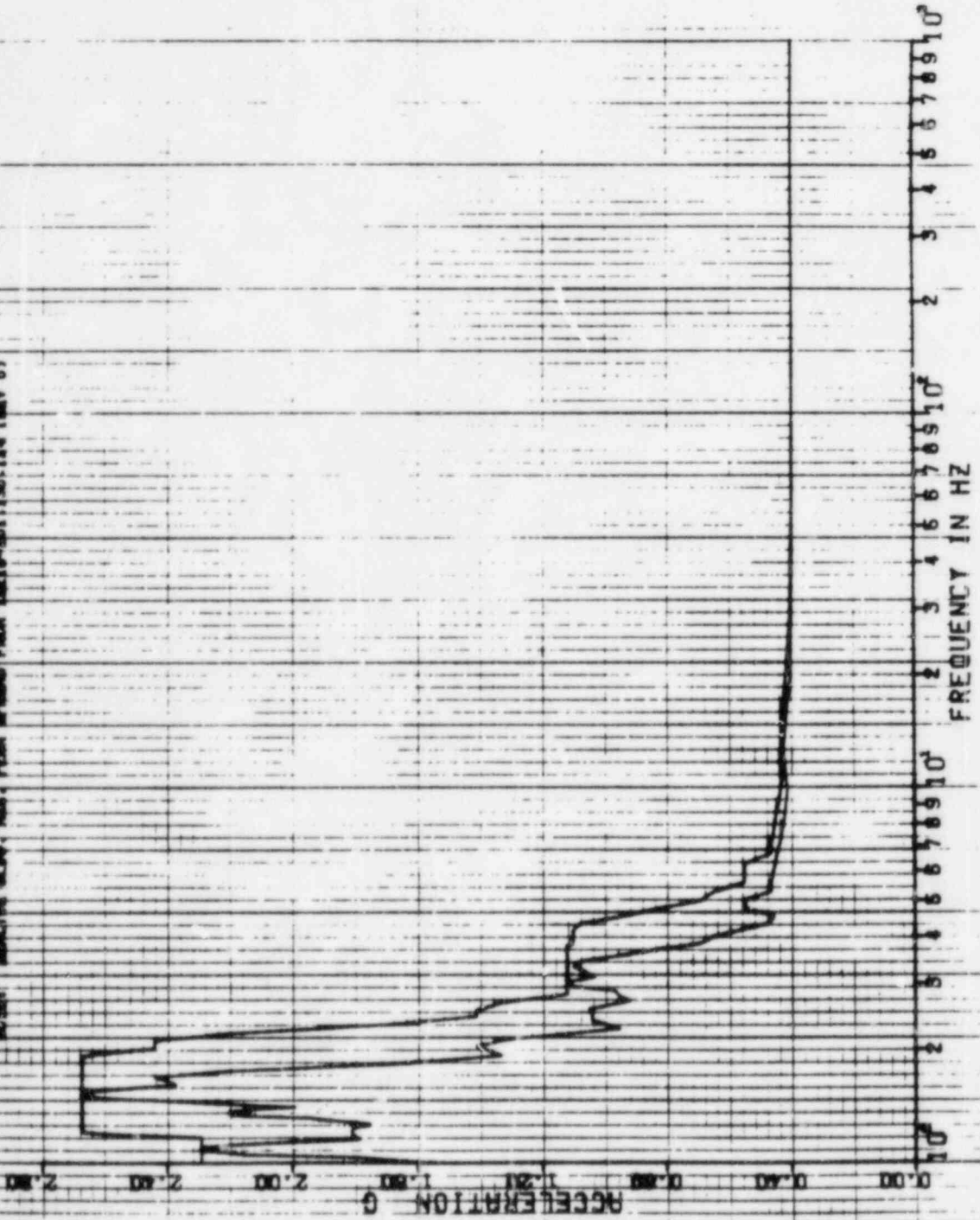
22 APR 1962

K. KAY

DAMPING VALUE = 0.090

34

PSPECTRA VER 01 LEV 07  
 GULF STATE UTILITIES-RSS UNIT 1-CALC12210-WM1C1-50E-1909 REV(0)  
 RSS OF REC.-REACTOR BLDG.-EL-105-00.M055-07 SEIS MODEL-SHIELD BLDG.  
 PERC SPREAD -202.1926Z  
 DISK CURVE SET NO.12  
 1-D SSE MOR DIRECTION  
 SEISM MONTAGE BLDG. NO.8, PERS SPREAD FROM 10010-001.130.134 10KV 01







117A

22 APR 1962

KAY

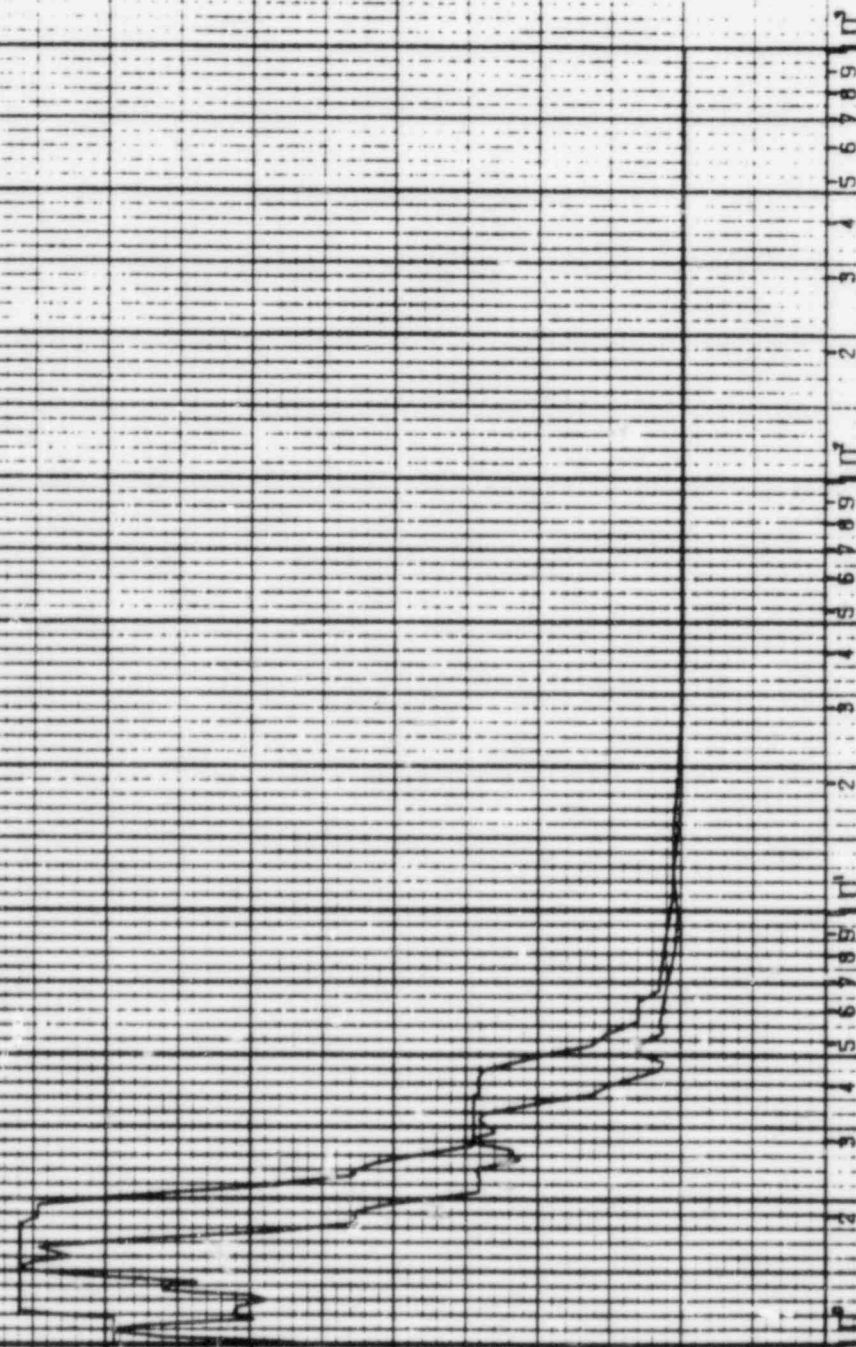
DAMPING VALUE = 0.010

SPECTRA VER 0 LEV 07  
 GOLF STAGE 07 C-125-205 UN1  
 RES OF ACC - REACTOR BLOC (C-125-205 MASS-07 SE'S MODEL-SHIELD BLOC  
 PEAR SPHER 1.207 .257  
 DISK CURVE SET 00.12  
 .0 SSE HOR DIRECTION  
 NOTE: SHIELDING BLOC MASS - PEAK MARKED FROM 0221.0-0231.030 1.24 ADV. 01

ACCELERATION 0 0.40 0.80 1.20 1.60 2.00 2.40 2.80

10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup> 10<sup>9</sup>

FREQUENCY IN HZ





A11A

22 APR 1962

R. KAY

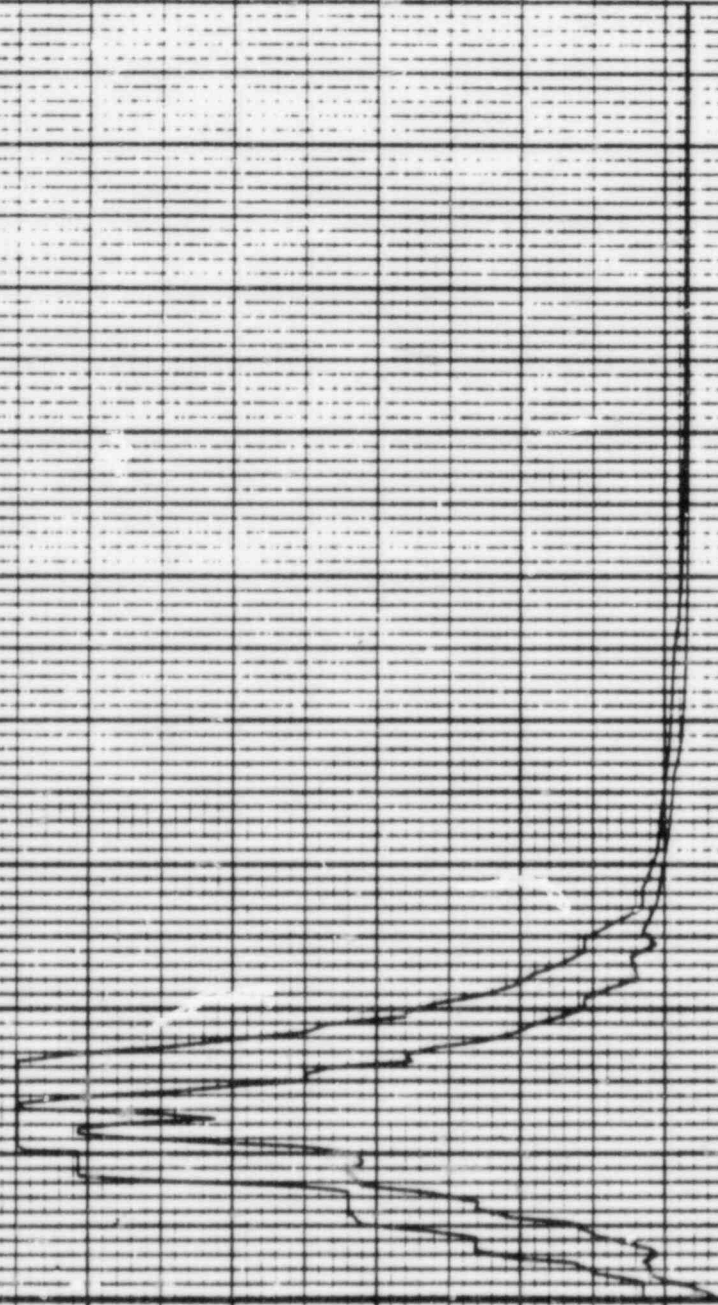
DAMPING VALUE = 0.010

\*SPECTRA VER 0 LCV 07  
 GULF STATE OIL FIELD 15-RBS UNIT - CALL 2210-MNFC -506- (903 REV 10)  
 RAS OF ACC. REACTOR BLOC (L: 193.98 MASS: 07 SE S MODEL-SHIELD BLOC  
 PEAR SPREAD - 207.1552  
 DISA CURVE SE 80.12  
 10 SSE VER DIRECTION

NOTE: REACTOR BLOC - MAS - FROM WAREHO FROM UPTD ED 115D 1541 REV 01

ACCELERATION 0 0.50 1.00 1.50 2.00 2.50

0 1 2 3 4 5 6 7 8 9 10  
 FREQUENCY IN HZ

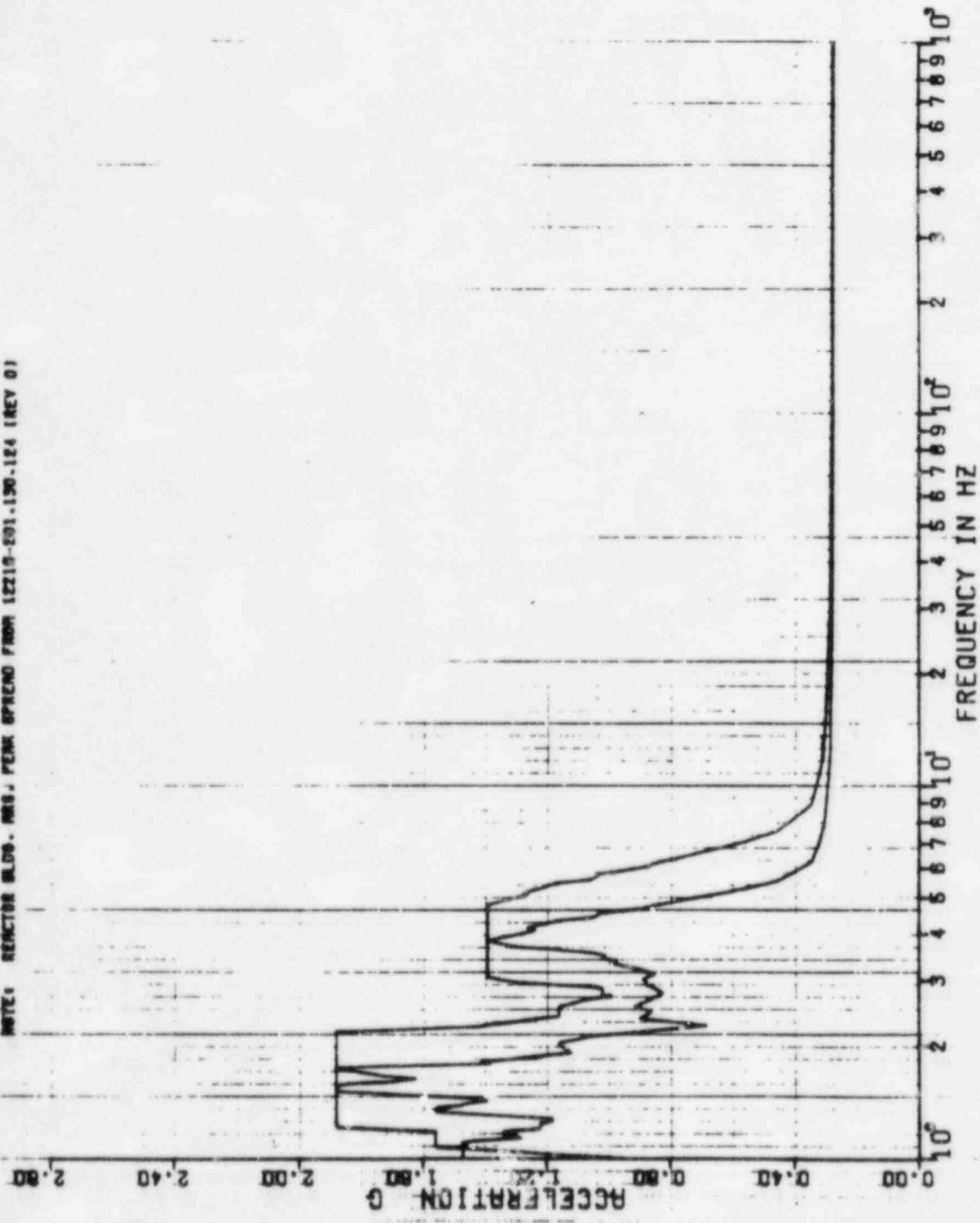


2704  
22 APR 1982

K. KAY  
DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 07  
GULF STATE UTILITIES-RBS UNIT 1-CALC12210-MMIC1)-60E-1903 REV(C)  
RBS OF ACC.-REACTOR BLDG.-EL-214.31.MASS=08 SETS MODEL-SHIELD BLDG.  
PEAK SPREAD -20%,+25Z

DISK CURVE SET NO.13      0.5 SSE      HOR DIRECTION  
NOTE: REACTOR BLDG. MASS PEAK SPREAD FROM 12210-001.150-124 (REV 0)



110

22 APR 1982

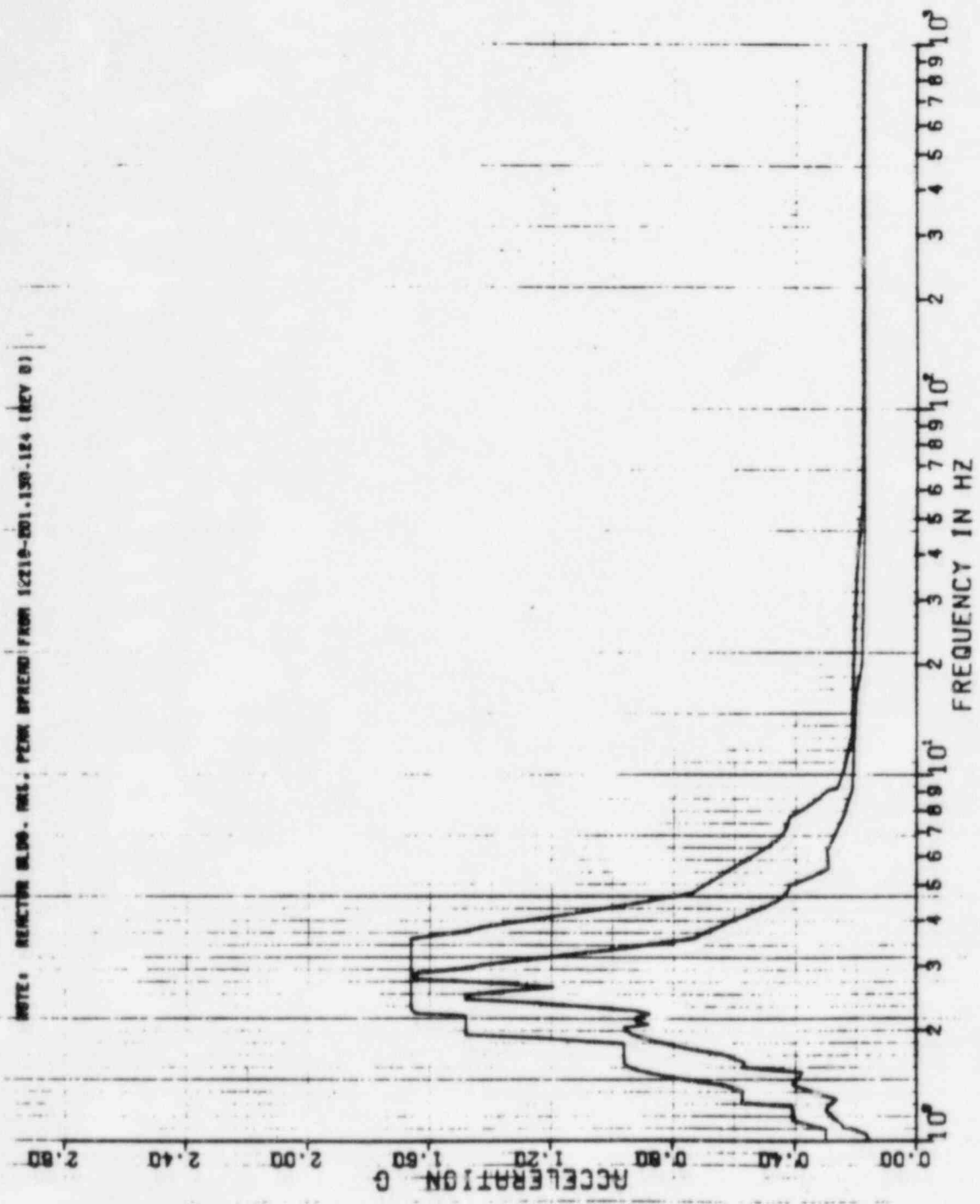
K. KAY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 07  
 GULF STATE UTILITIES-RSS UNIT 1-CALC10210-NH(C)-682-1903 REV(0)  
 RRS OF ACC.--REACTOR BLDG.-EL-214.31.MASS=08 SEIS MODEL-SHIELD BLDG.  
 PEAK SPREAD -20%+25%

DISK CURVE SET NO.13      0.5 SSE      VER DIRECTION

NOTE: REACTOR BLDG. HAS PEAK SPREAD FROM 12210-201.130-124 (REV 0)



612A

8 FEB 1963

K. KAY

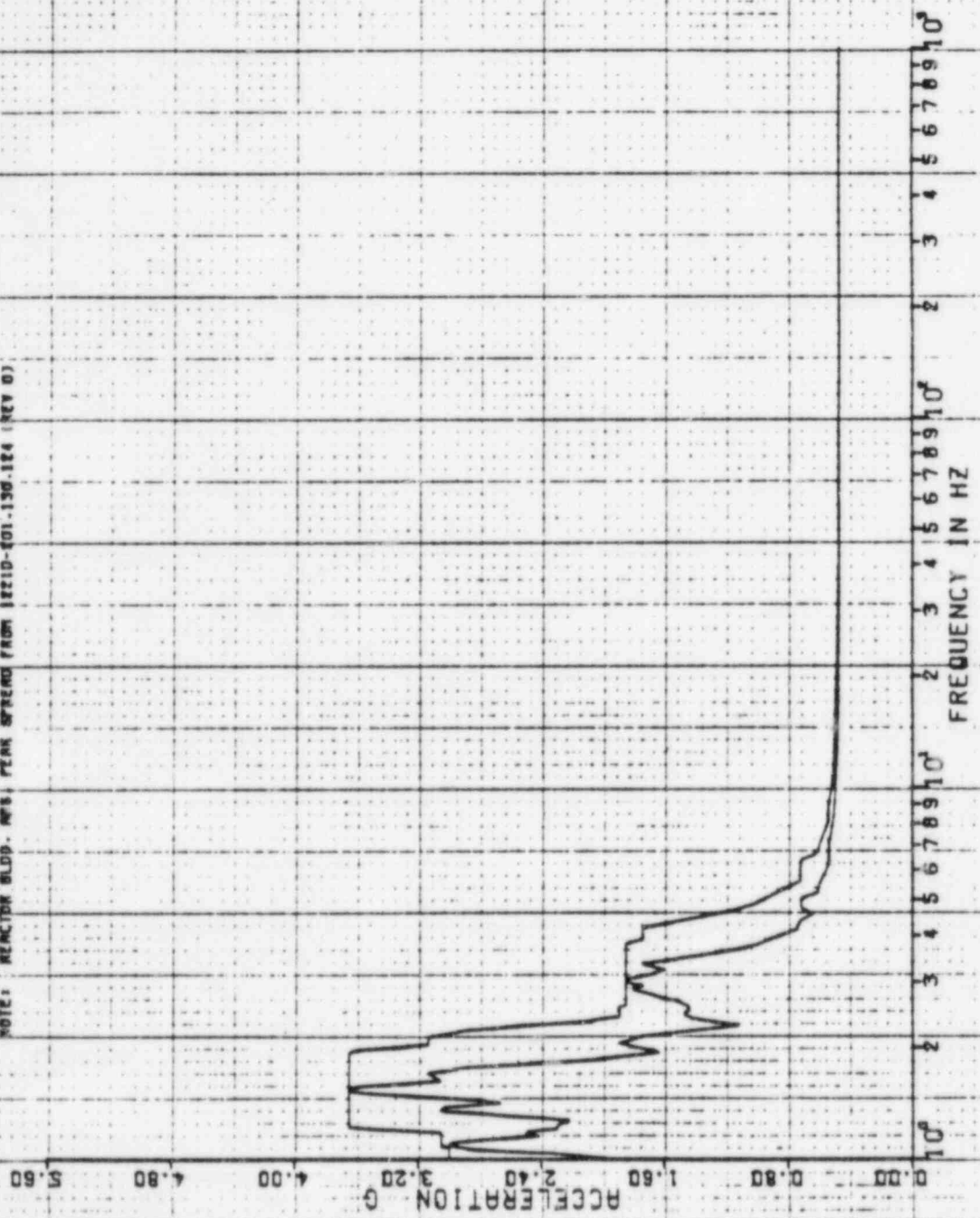
DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 08  
 GULF STATES UTILITIES-RDS UNIT 1-CALC12210-MHEC1-50E-1903 REV111  
 ARS OF ACC.-REACTOR BLDG..EL=214.31..MASS=08 6E16 MODEL-SHIELD BLDG  
 PEAK SPREAD -20% +25%

1.0 SSE MOR DIRECTION  
 6SE

DISK CURVE SET NO.14

NOTE: REACTOR BLDG. WYS PEAK SPREAD FROM 12210-101.139.184 (REV 0)

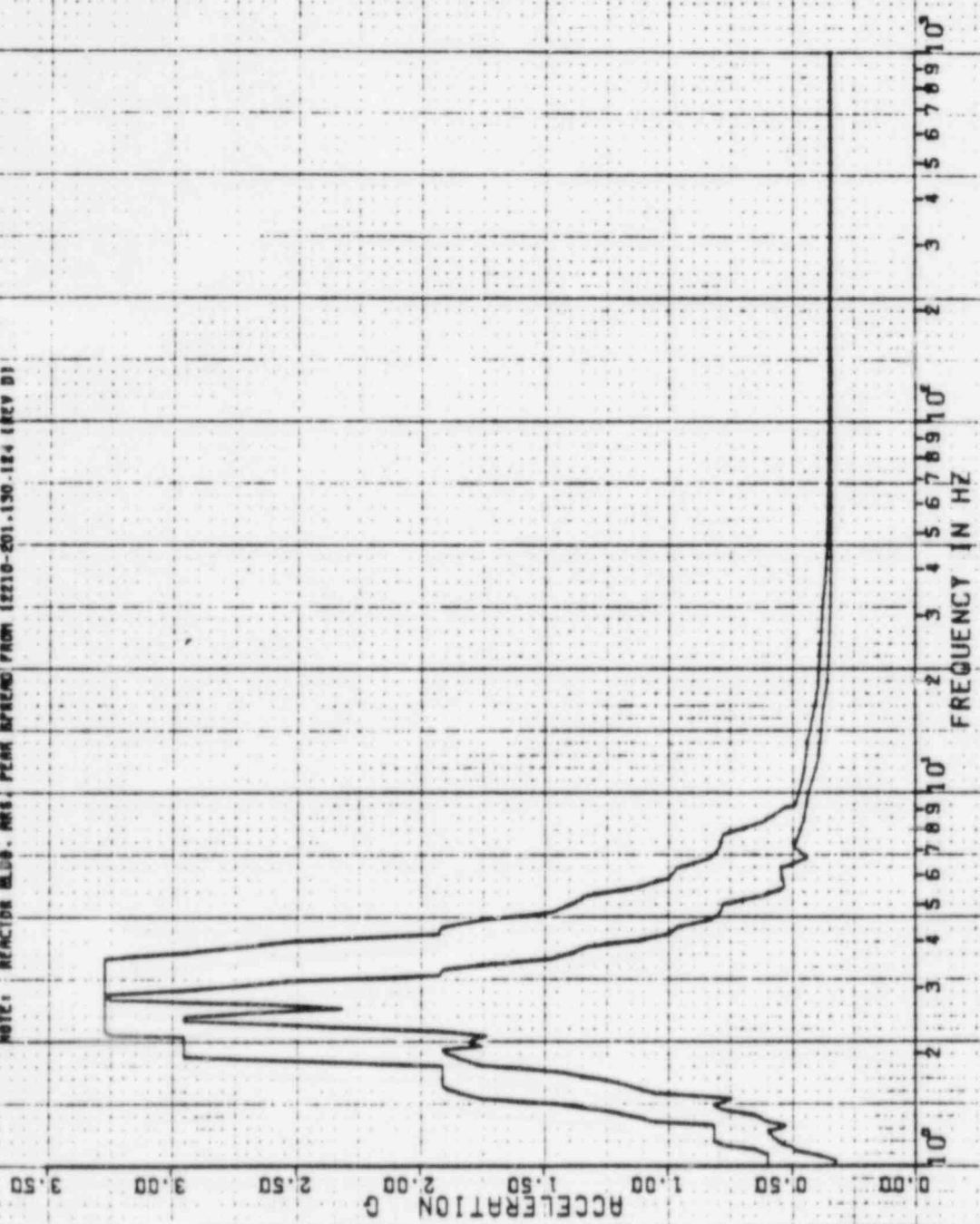




011A  
6 FEB 1963  
K. KAY  
DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 08  
GULF STATES UTILITIES-R85 UNIT 1-CALC12210-MHIC1-60E-1903 REV(1)  
RMS OF ACC.-REACTOR BLDG., EL-214.31, MASS=08 5E16 MODEL-SHIELD BLDG  
PEAK SPREAD -20% +25%  
DISK CURVE SET NO. 14  
3.0 5SE VER DIRECTION

NOTE: REACTOR BLDG. RMS. PEAK SPREAD FROM (2210-201.130.184 (REV B))





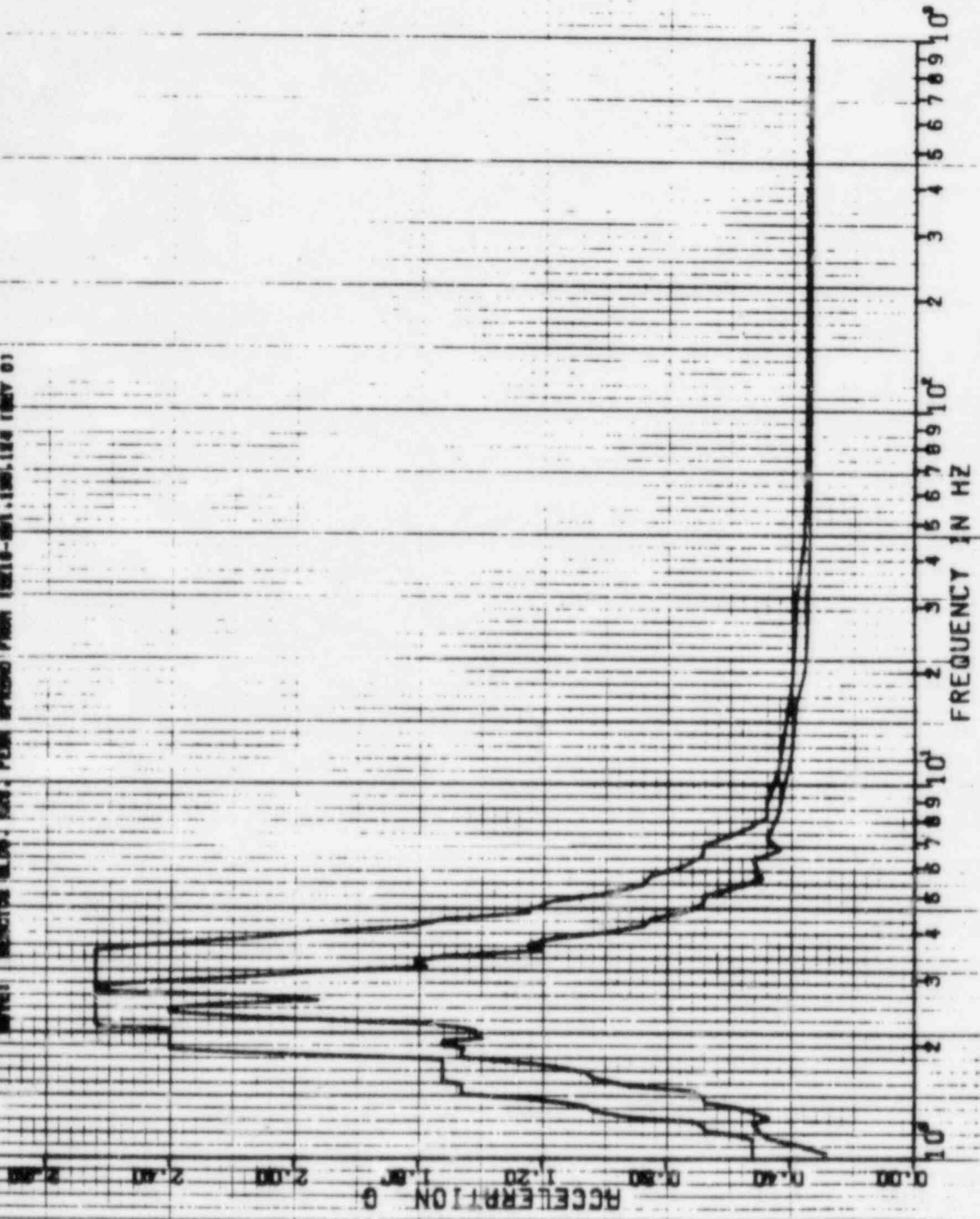
349A

22 APR 1962

K. KAY

DAMPING VALUE = 0.030

PEPECTOR VER 01 LEY 07  
 WOLF STATE UTILITIES-NBS UNIT 1-CALC12210-UNIT 1-802-1909 REV 10  
 NBS BY NCL-REACTOR BLDG-EL-214-31.MASS-08 5E16 MODEL-SHIELD BLDG.  
 PERK SPRING -20X.225X  
 DISK CURVE SET NO.119  
 1.0 SSE VER DIRECTION  
 DATA: REACTOR BLDG. NBS. PERK SPRING FROM 1951.8-1951.124 (REV 01)





22 APR 1982

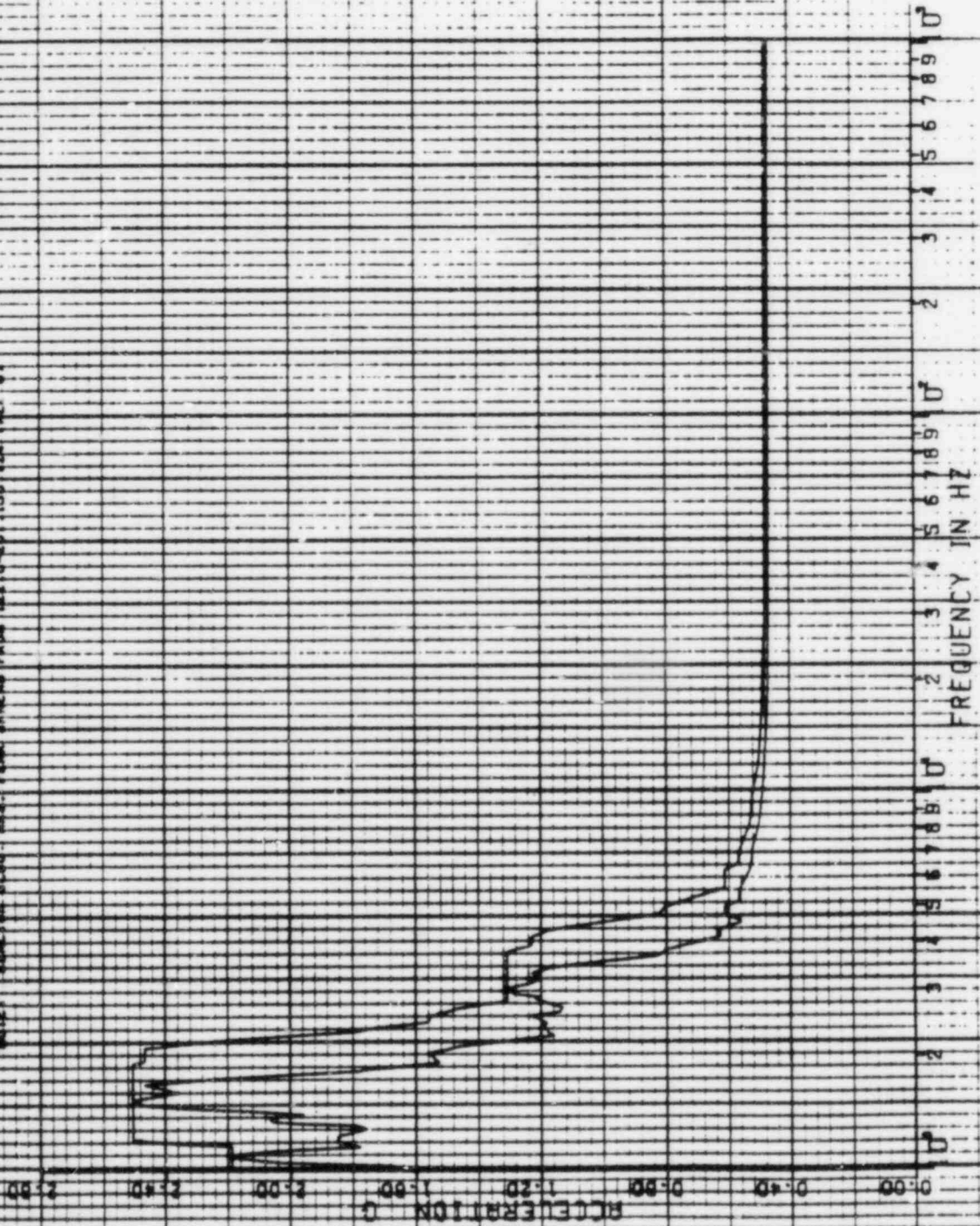
KRAY

DAMPING VALUE = 0.010

SPECTRA VER 0 LEV 07  
SOLE STATE 0 CL 125-RMS ONLY -CALC 12210-MHC -S05-1903 REV 01  
RBS OF ACC. REACTOR BLDG CL 2 1.31 MASS=06 SEIS MODEL-SHIELD BLDG  
PEAK SPREAD 1.203 1.257

DISK CURVE SE NO 14  
0 SSE  
FOR DIRECTION

NOTE: REACTOR BLDG. HAS. PEAK SPREAD FROM 1.203 TO 1.550 (24. IN. @)





7/11A

22 APR 98

E MAY

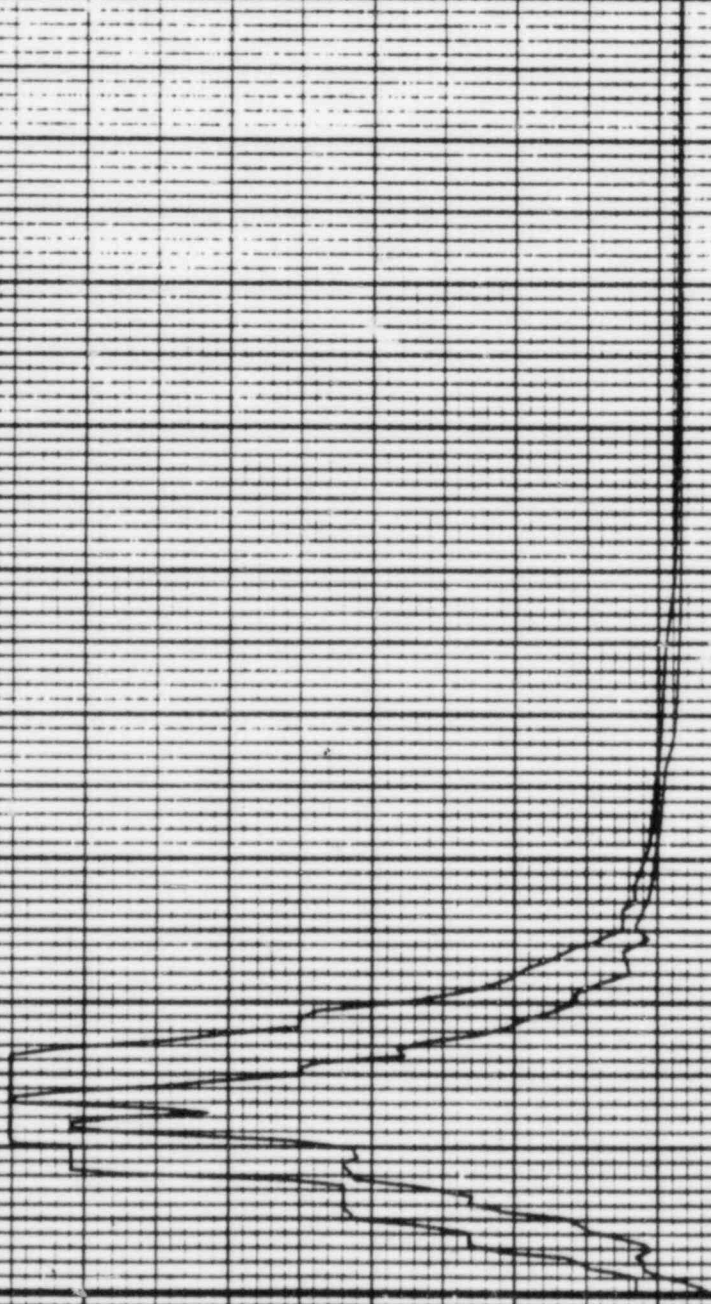
BAMPING VALUE = 0.00

RESPECTOR VER 0 LEV 07  
 ONLY STATE UTILITY - RBS UNIT - CALC 2210 NHTC - 505-1903 REV 01  
 RES OF ACC - REACTOR BLOC CU-2 1.3 MASS-08 SETS MODEL-SHIELD BLOC  
 PEAK SPREAD 1.207 1.251  
 B. SK CURVE SET NO 1.1  
 .0 SSC VER DIRECT. ON  
 NOTE: REACTOR BLOC HAS PEAK SPREAD FROM 1.207 TO 1.251 (REV 01)

ACCELERATION 0  
 0.00  
 0.50  
 1.00  
 1.50  
 2.00  
 2.50

0  
 1  
 2  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 10  
 11  
 12  
 13  
 14  
 15  
 16  
 17  
 18  
 19  
 20  
 21  
 22  
 23  
 24  
 25  
 26  
 27  
 28  
 29  
 30  
 31  
 32  
 33  
 34  
 35  
 36  
 37  
 38  
 39  
 40  
 41  
 42  
 43  
 44  
 45  
 46  
 47  
 48  
 49  
 50  
 51  
 52  
 53  
 54  
 55  
 56  
 57  
 58  
 59  
 60  
 61  
 62  
 63  
 64  
 65  
 66  
 67  
 68  
 69  
 70  
 71  
 72  
 73  
 74  
 75  
 76  
 77  
 78  
 79  
 80  
 81  
 82  
 83  
 84  
 85  
 86  
 87  
 88  
 89  
 90  
 91  
 92  
 93  
 94  
 95  
 96  
 97  
 98  
 99  
 100

FREQUENCY IN HZ



PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RBS UNIT 1-CALC(12210-MM(C))-S0E-1903 REV(0)  
RBS OF ACC.-REACTOR BLDG.-EL-248.00, MASS=09 SEIS MODEL-SHIELD BLDG.  
PEAK SPREAD -20Z.+25Z

DISK CURVE SET NO.15

0.5 55E

HOR DIRECTION

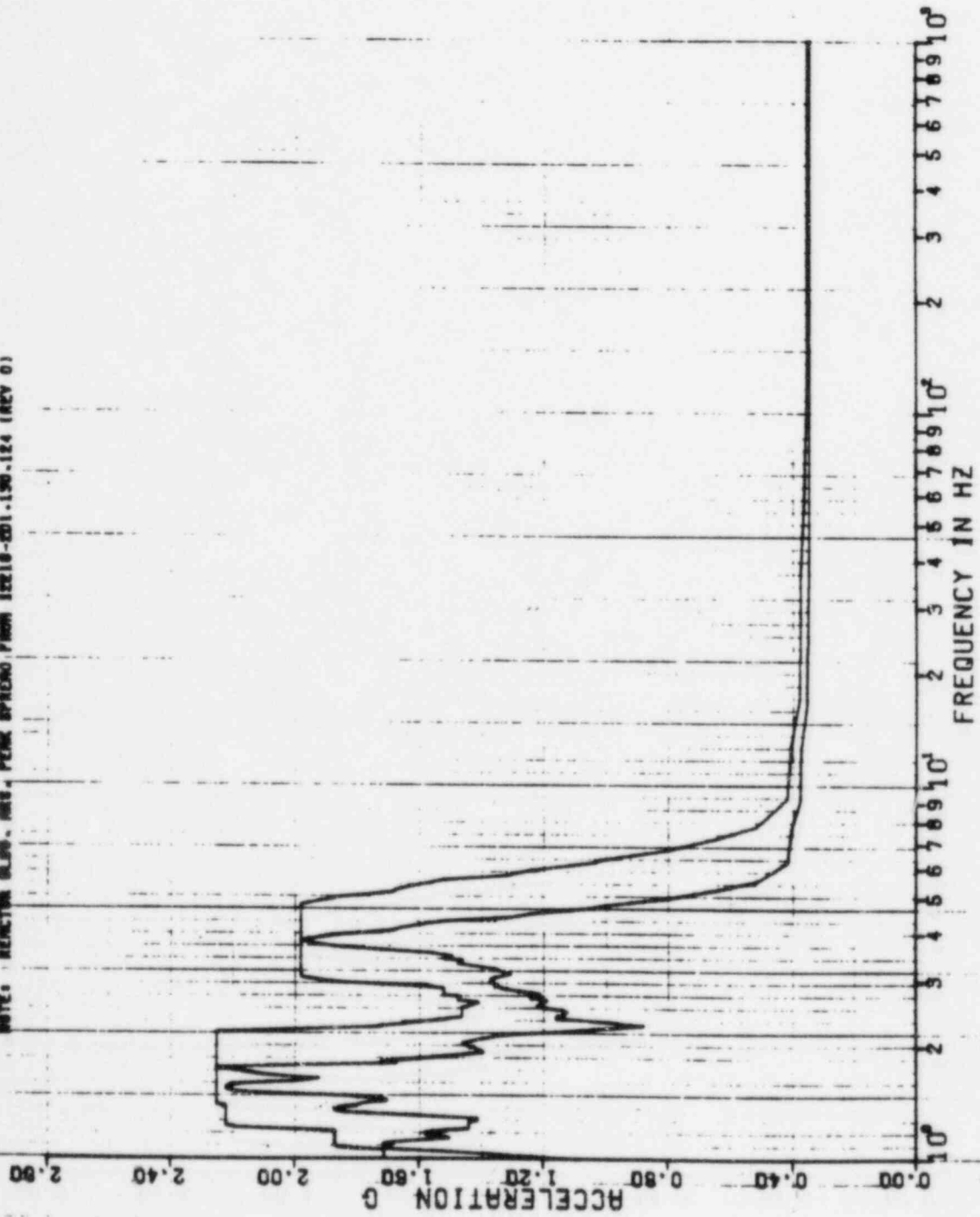
K.KAY

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RBS, PEAK SPREAD FROM SEE18-C01.130.124 (REV 0)

22 APR 1982

4



2:04

22 APR 1982

PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NM(C)-60E-1903 REV(0)  
RBS OF ACC.-REACTOR BLDG.-EL=248.00, MASS=09 SEIS MODEL-SHIELD BLDG.  
PEAK SPREAD -20% +25%

K.KAY

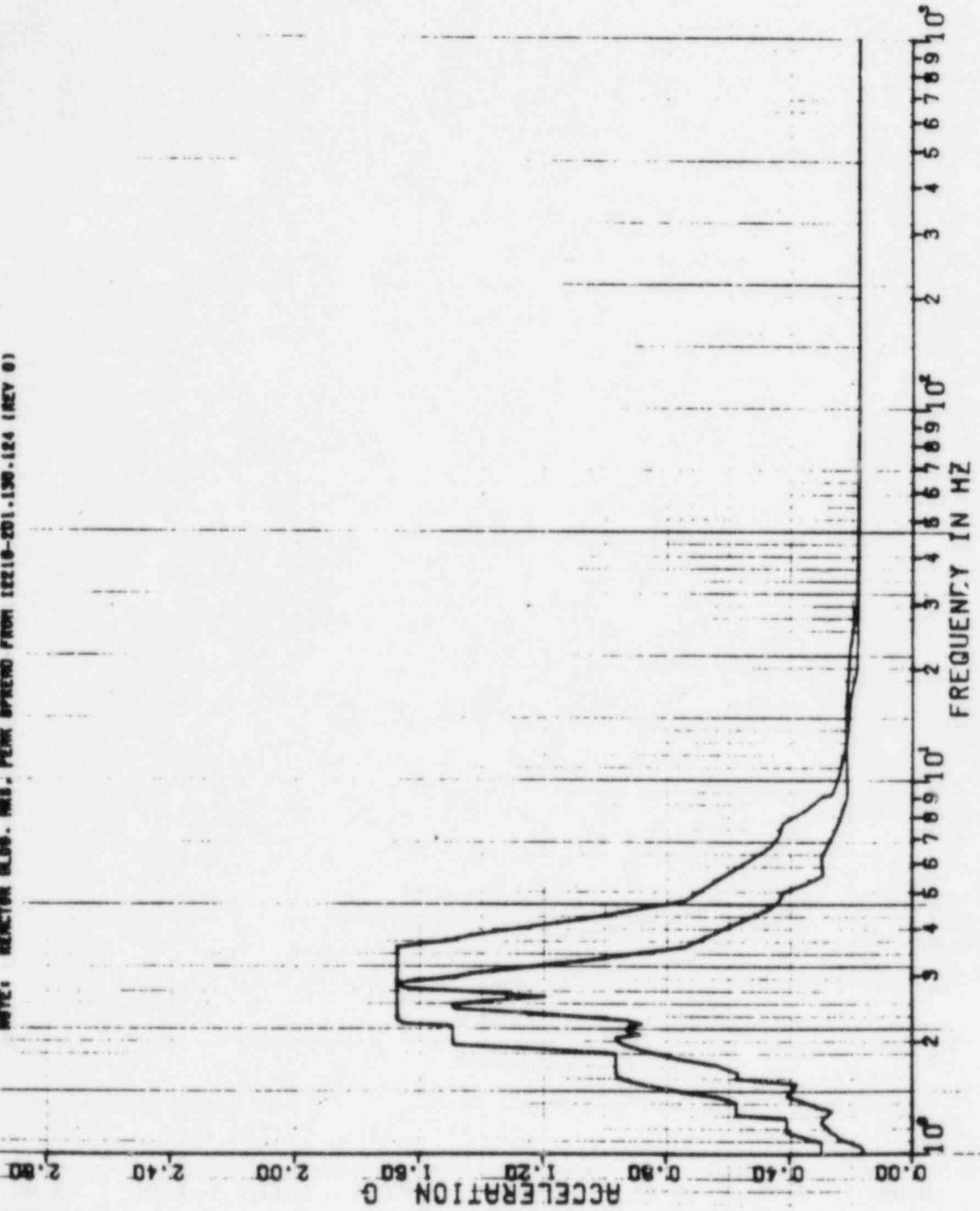
DAMPING VALUE = 3.020

DISK CURVE SET NO.15

0.5 SSE

VER DIRECTION

NOTE: REACTOR BLDG. HAS PEAK SPREAD FROM 12210-201.130-124 (REV 0)



6 FEB 1965

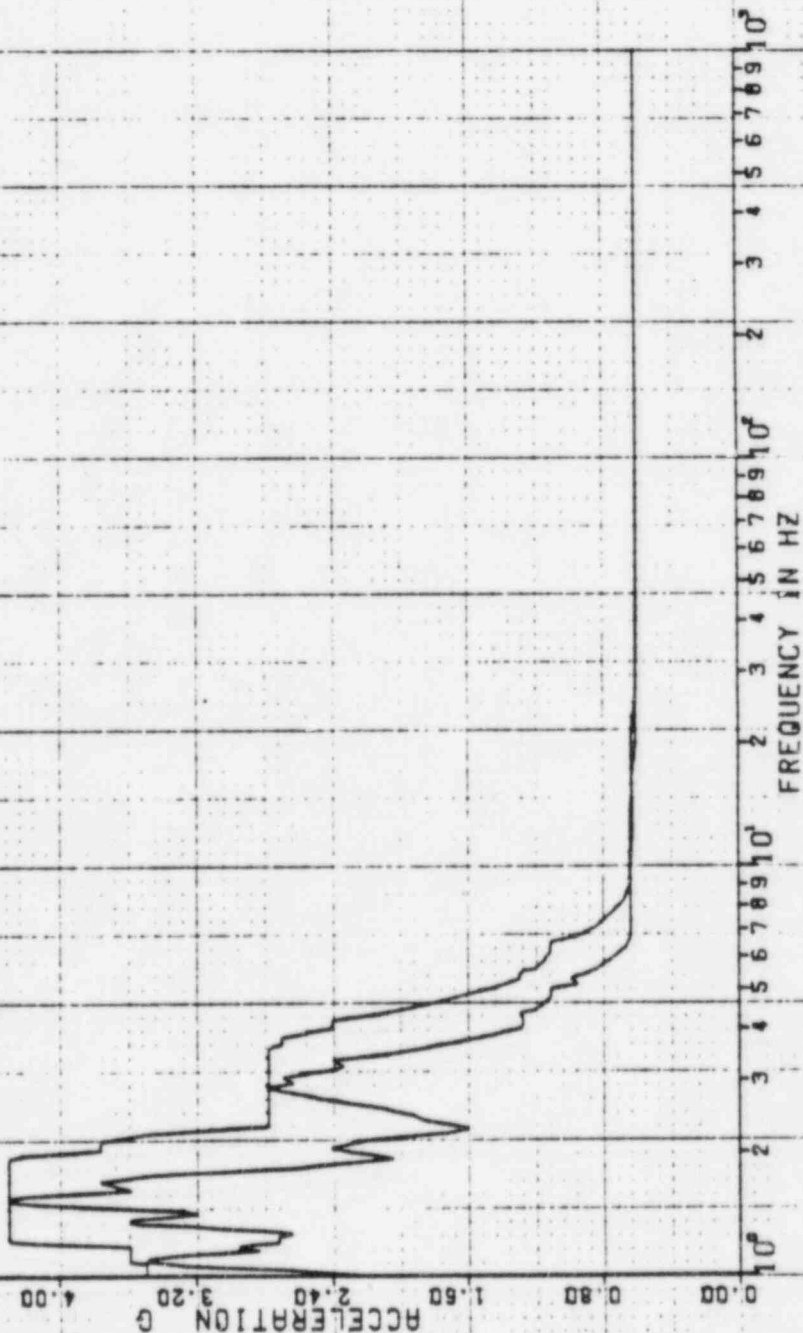
5.1.1.1

K. KAY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 08  
 GULF STATES UTILITIES-RBS. UNIT 1-CALC12210-NM1CJ-6DF-1809 REV:1)  
 RRS OF ACC.-REACTOR BLDG. EL=248.00.MASS=09 6E16 MODEL-SHIELD BLDG  
 PEAK SPREAD -20Z +25Z  
 DISK CURVE SET. NO.16  
 NOTE: REACTOR BLDG. RRS PEAK SPREAD FROM 12210-201.130-124 1REV D)

1.0 66E MOR DIRECTION





658

8 FEB 1983

K. MAY

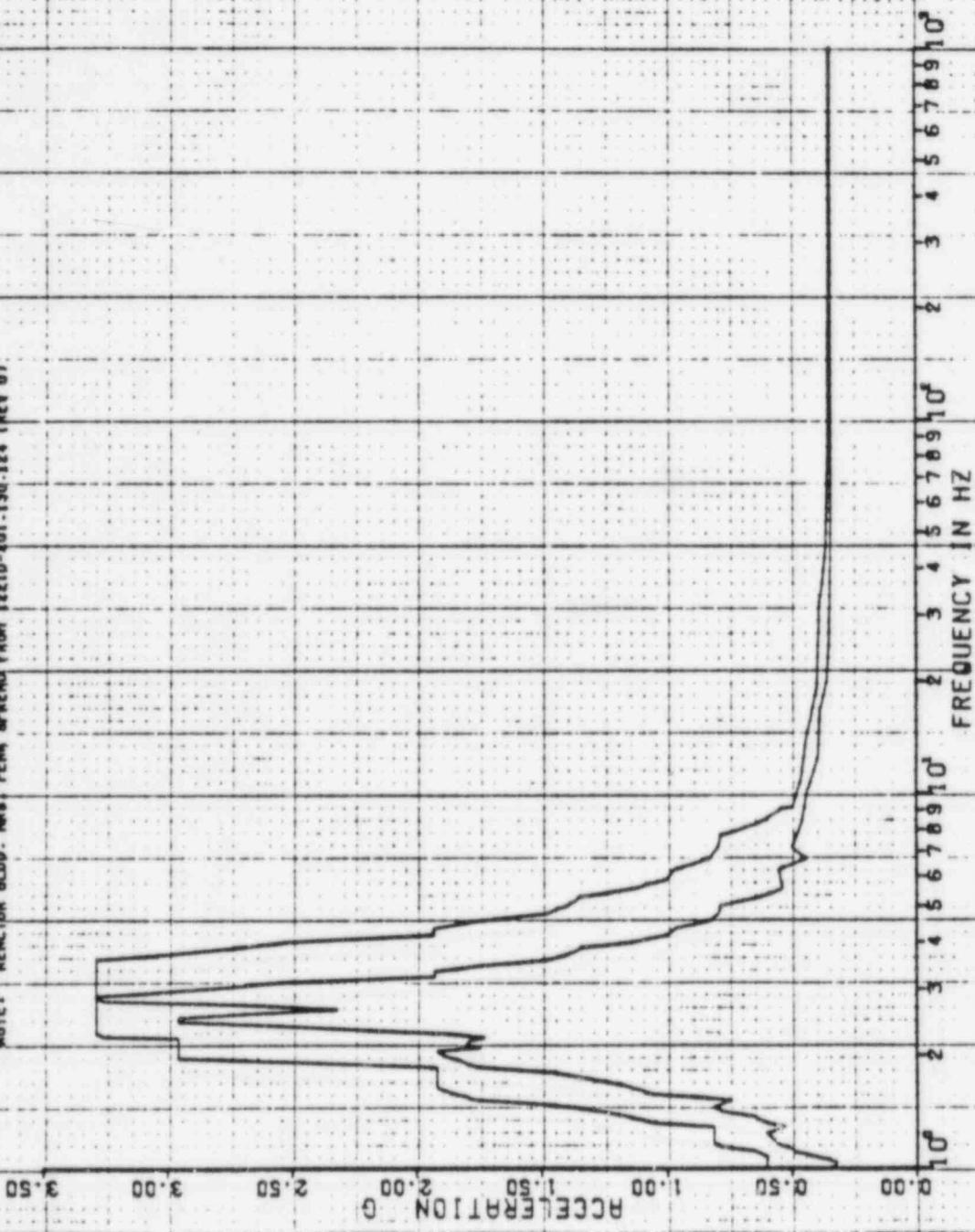
DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 00  
GULF STATES UTILITIES-RDS UNIT 1-CALC12210-NM1C1-60E-19D3 REV11  
RMS OF ACC.-REACTOR BLDG. .EL-248.00, MASS-09 6E16 MODEL-SHIELD BLDG  
PEAK SPREAD -20% +25%

1.0 SSE VER DIRECTION

1.0 SSE

DISK CURVE SET NO.16  
NOTE: REACTOR BLDG. RMS PEAK SPREAD FROM 1E21D-01.130.124 (REV 01)



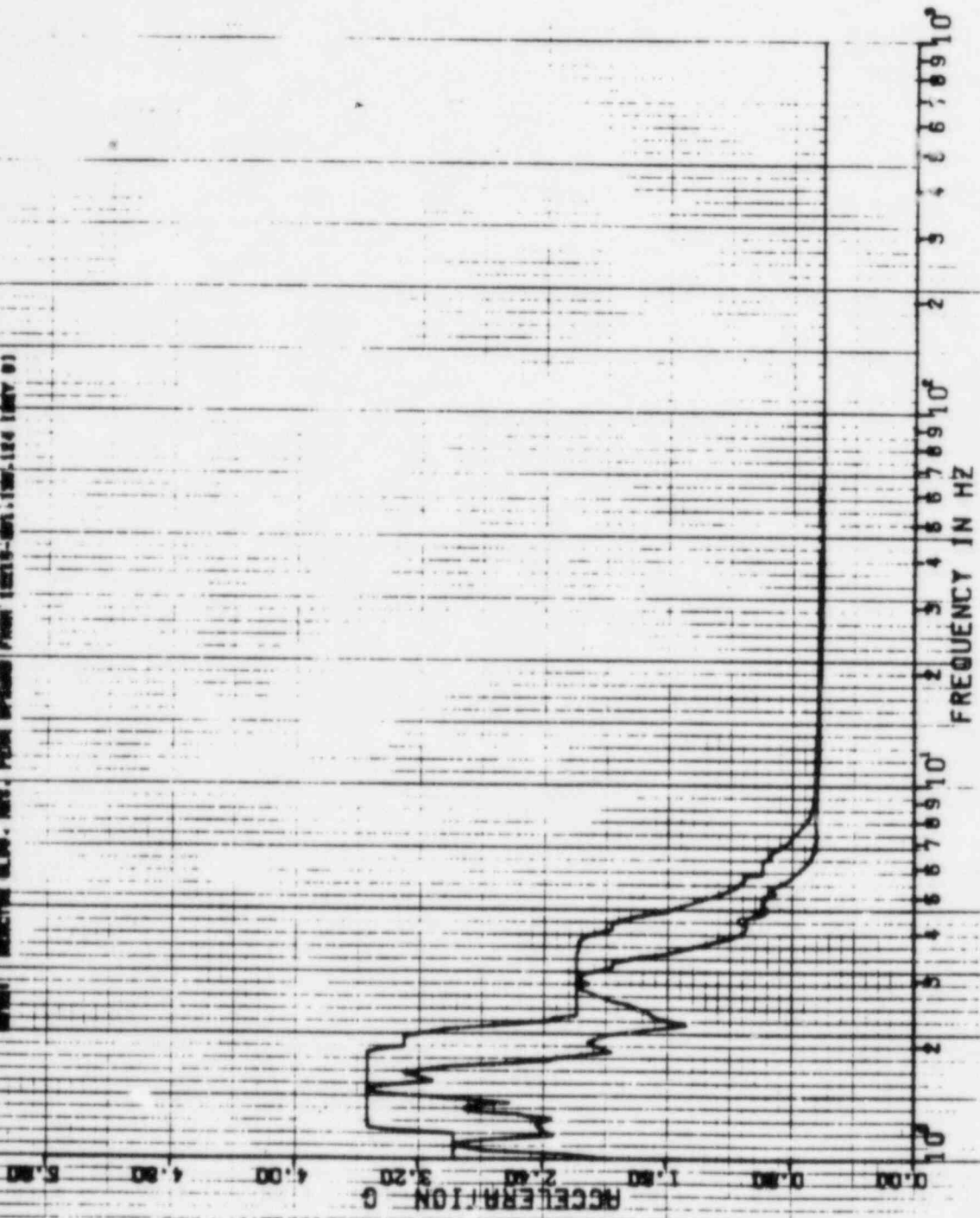
22 APR 1962

35 d

K. KAY

DAMPING VALUE = 0.030

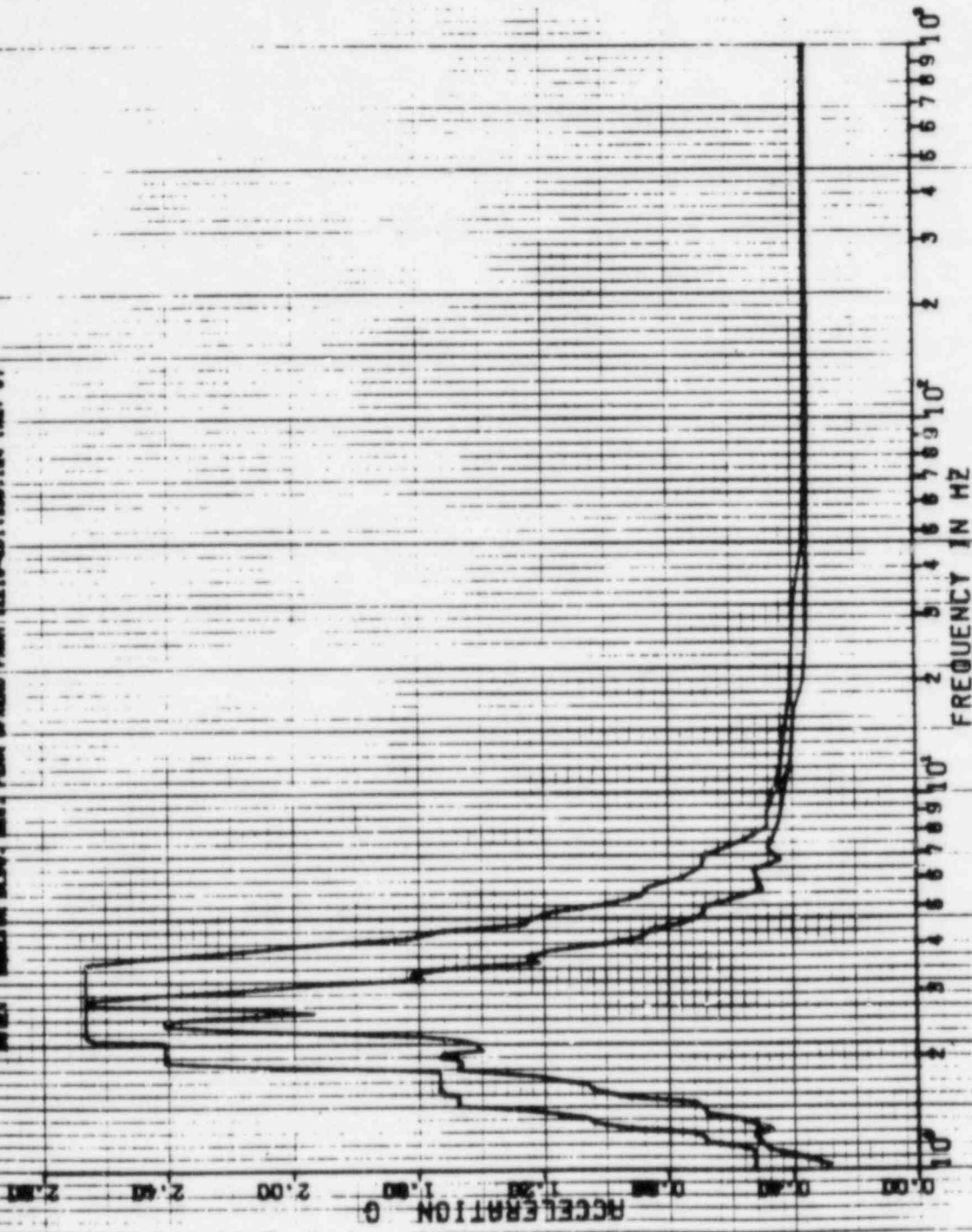
SPECTRA VER 01 LEV 07  
 GULF STATE UTILITIES-RSS UNIT 1-CALC(12210-NNIC)-88E-1909 REV(0)  
 ARE OF ACC-REACTOR BLDG-EL-248-00-TRASS-09 SEIS MODEL-3NFIELD BLDG.  
 PEAK SPREAD - 20X, +25X  
 DISK CURVE SET NO. 16  
 1.0 SSE HDR DIRECTION  
 FROM REACTOR BLDG. NET. FROM SPREAD FROM (2219-001.136, 184 (REV 9))



22 APR 1962 3517

K.KAY  
DAMPING VALUE = 0.090

SPECTRA VER 01 LEV 07  
 GULF STATE UTILITY-RDS UNIT 1-CALC12210-AM101-002-1903 REV(0)  
 NWS DE INCL-REACTOR BLDG. EL-240.00. MASS:09 SEIS MODEL-SHIELD BLDG.  
 PEAK SPREAD - 201.25Z  
 DISK CURVE SET 00110  
 1.0 SSE VER DIRECTION  
 INVER DIRECTOR BLDG. INV. PULSE SPREAD FROM 10010-001.100.104 (REV 01)





4

12 APR 1962

E. KAY

SAMPLING VALUE = 0.010

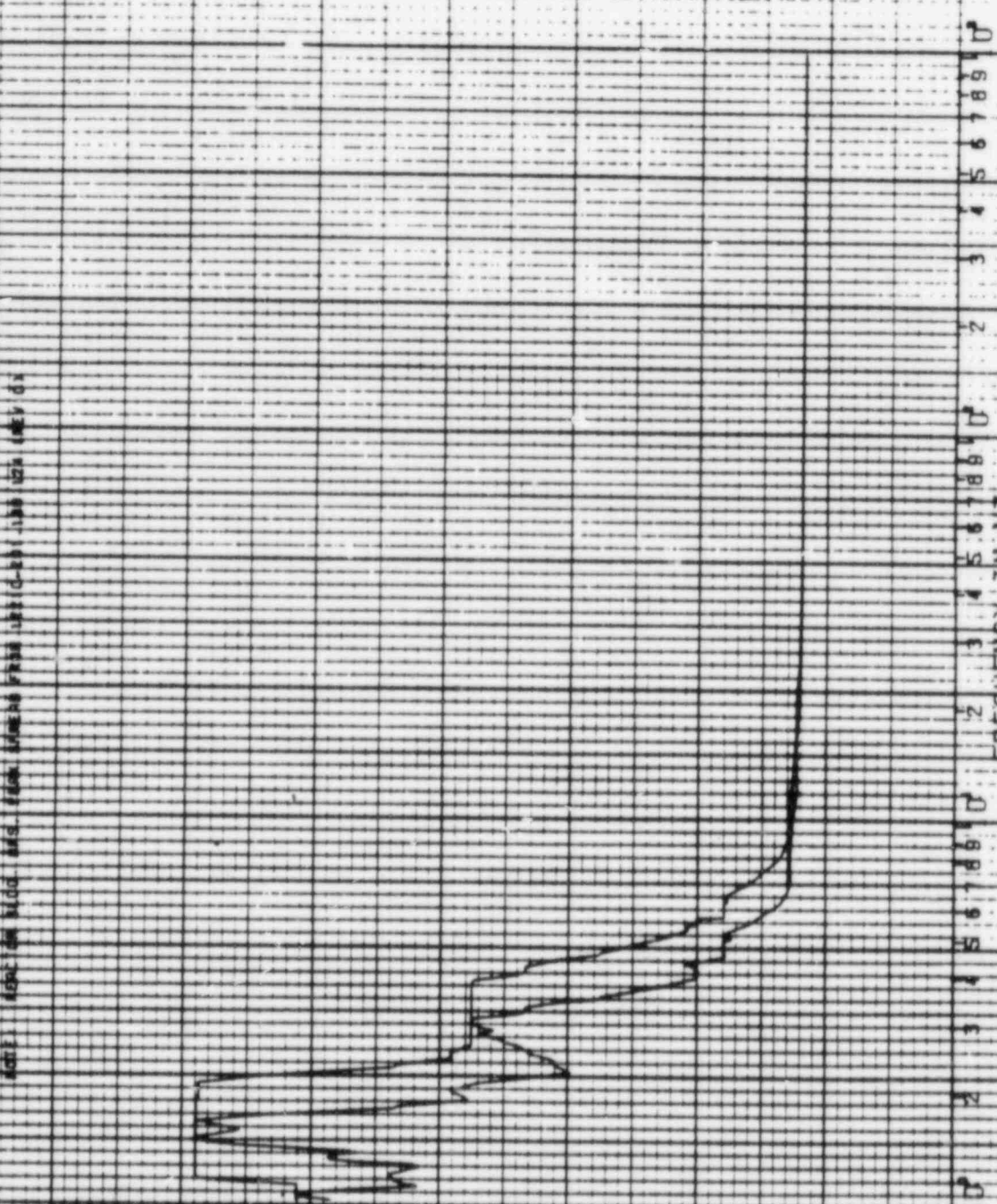
ASPECTRA VER 01 LEV 07  
 OULF STATE UTILITIES RES ONLY - CALG 12210-AMND 1-508-1903 REV001  
 WBS OF ACC - REACTOR BLDG BU-248 00.MASS=09 SETS MODEL-SHIELD BLDG  
 REAK SPREAD 202 2252

DISK CURVE SET NO 16  
 .0 SSE HOR DIRECTION

NOTE: REAK ON BLDG. MVS. FROM LENSES 7738 12310-01 136 02A (REV 01)

ACCELERATION G

FREQUENCY IN HZ





717A

22 APR 1982

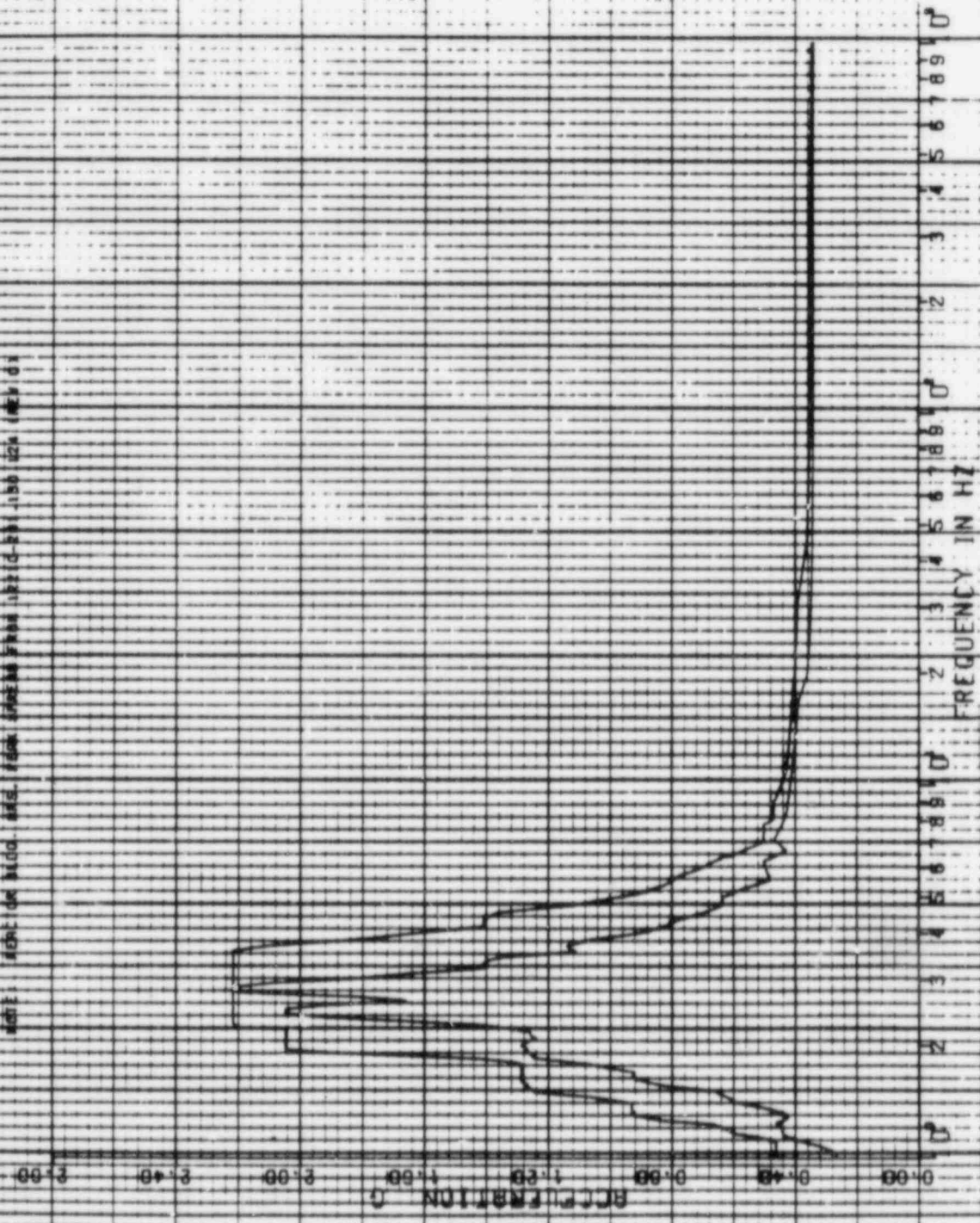
8:00 AM

SCALING VALUE = 0.040

SPECTRA VER 01 LEV 07  
 FOUR STATE UTILITIES-RBS UNIT 1-CPU072210-MH01-506-1903 REV101  
 RRS OF ACC -REACTOR BLOC BLU-248.00 MASS-09 15815 MODEL-SHIELD BLOC  
 PEAK SPEED = 203.125%  
 DISK CURVE SET NO.16

0.53E VER DIRECTION

NOTE: RIGHT SIDE BLOC. ANAL. FROM 15815.00 TO 15815.00 (NEW 01)



22 APR 1962

6-11-62

K. KAY

DAMPING VALUE = 0.020

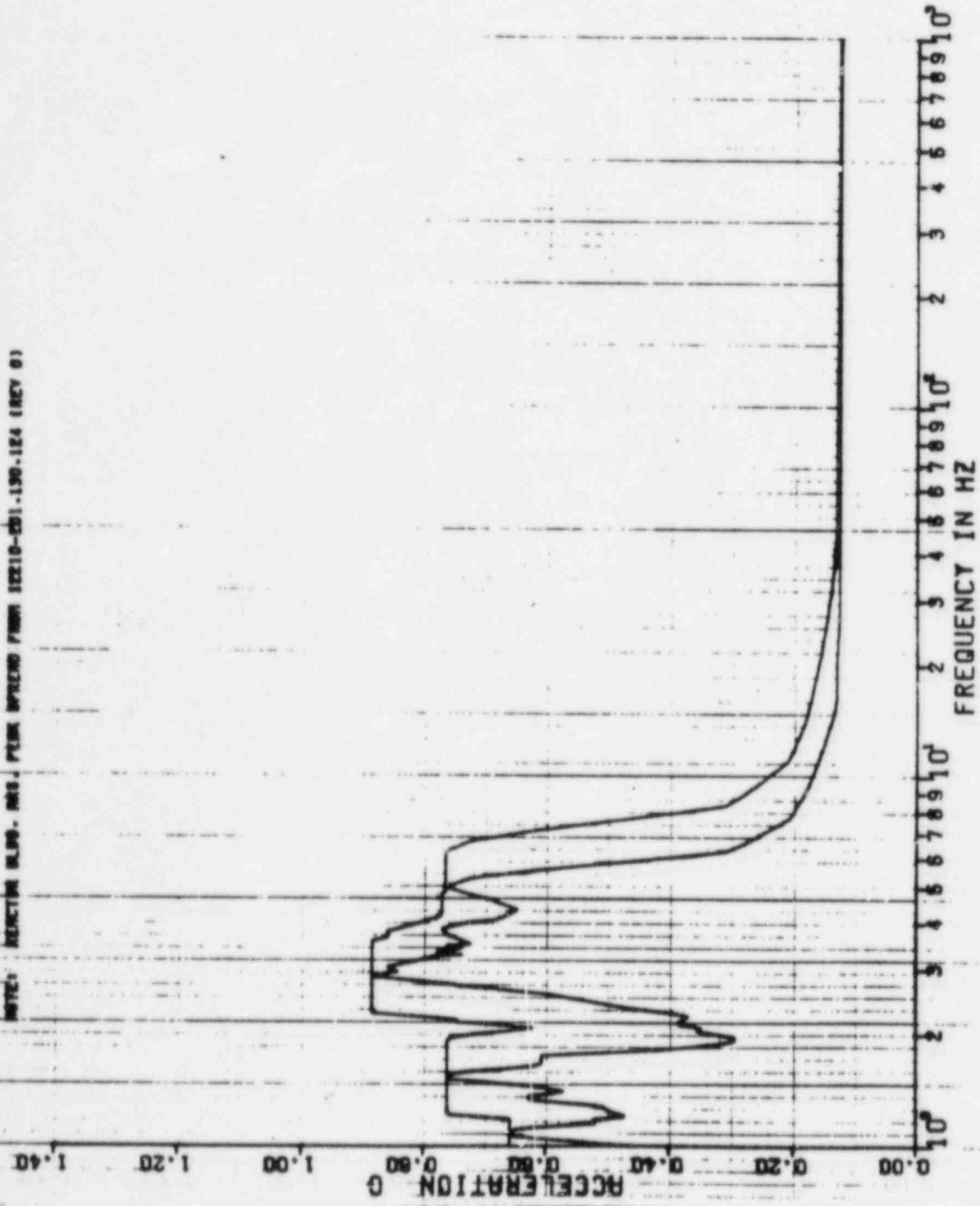
PSPECTRA VER 01 LEV 07

DULF STATE UTILITIES-RBS UNIT 1-CALC12210-MN(C)-66E-1903 REV(1)  
RMS OF ACC.-REACTOR BLDG-EL-96.000.MASS=10 SEIS MODEL-COMP.SMD.800  
PEAK SPREAD: -20%, +25%

DISK CURVE SET NO.17

0.5 66E HOR DIRECTION

NOTE: REACTOR BLDG. RMS PEAK SPREAD FROM SEE10-201.130-124 (REV 0)



PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-R06 UNIT 1-CALC(12210-MM(C)-50E-1903 REV(0)  
RMS OF ACC.-REACTOR BLDG.-EL-95.000.MASS-10 SEIS MODEL-COMP.-SMD.800  
PEAK SPREAD -20%.+25Z

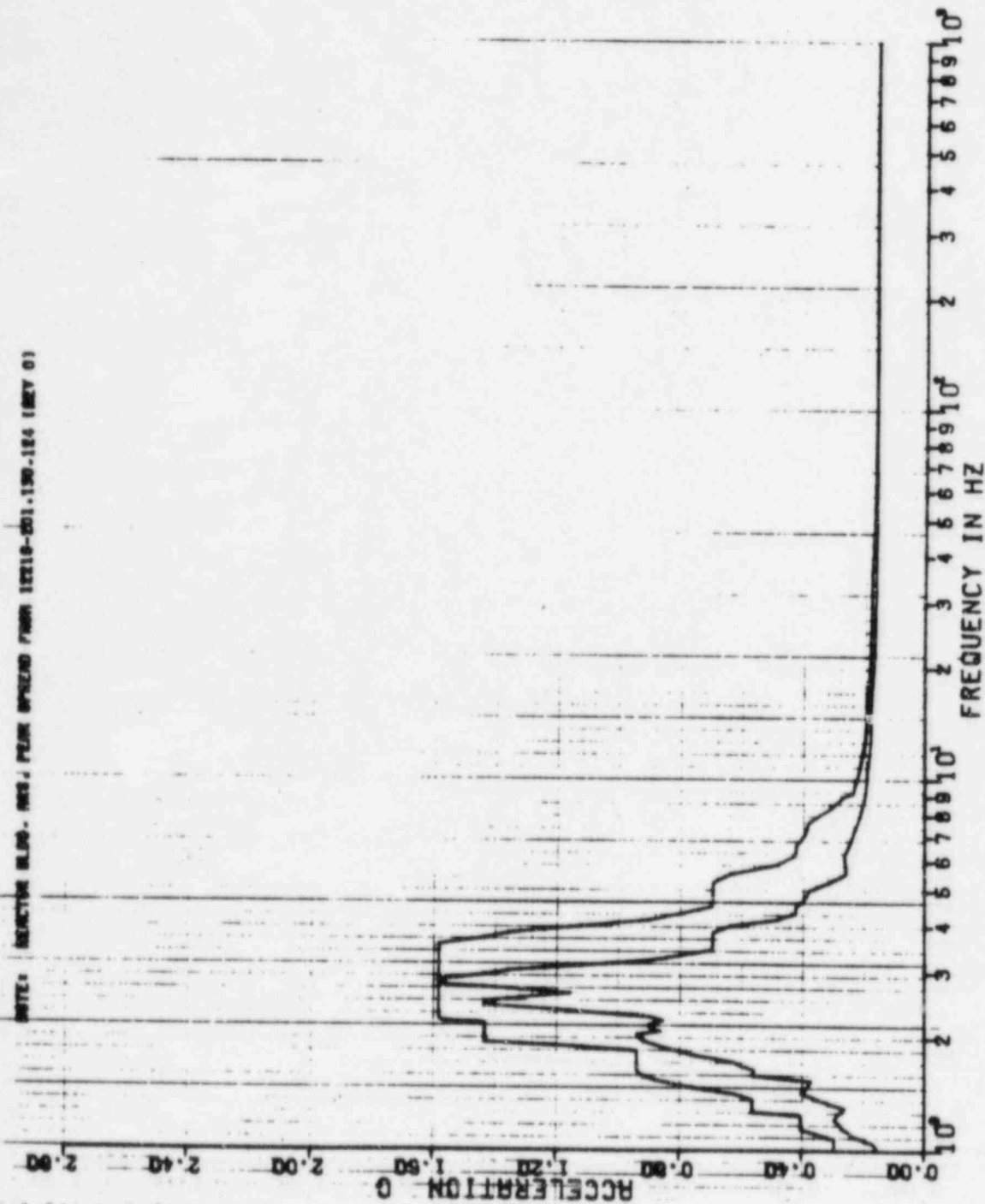
DISK CURVE SET NO.17

0.5 SSE VER DIRECTION

DAMPING VALUE = 0.020

K.KAY

NOTE: REACTOR BLDG. RMS. PEAK SPREAD FROM 12210-201.190-124 (REV 0)



41.7

8 FEB 1983

K. KRY

DAMPING VALUE = 0.020

UNIT: 3-CALC(2210-NR1C)-59E-1903 REV(1)  
EL=85.000, MASS=10 SE16 MODEL-COMP-SMD-800  
55E

1.0 55E  
HOR DIRECTION

NOTE: REACTOR BLDG. ARG. PEAK SPREAD FROM (2218-001.130-184 18CY 01)

PSPECIAR VER 01 LEV 08

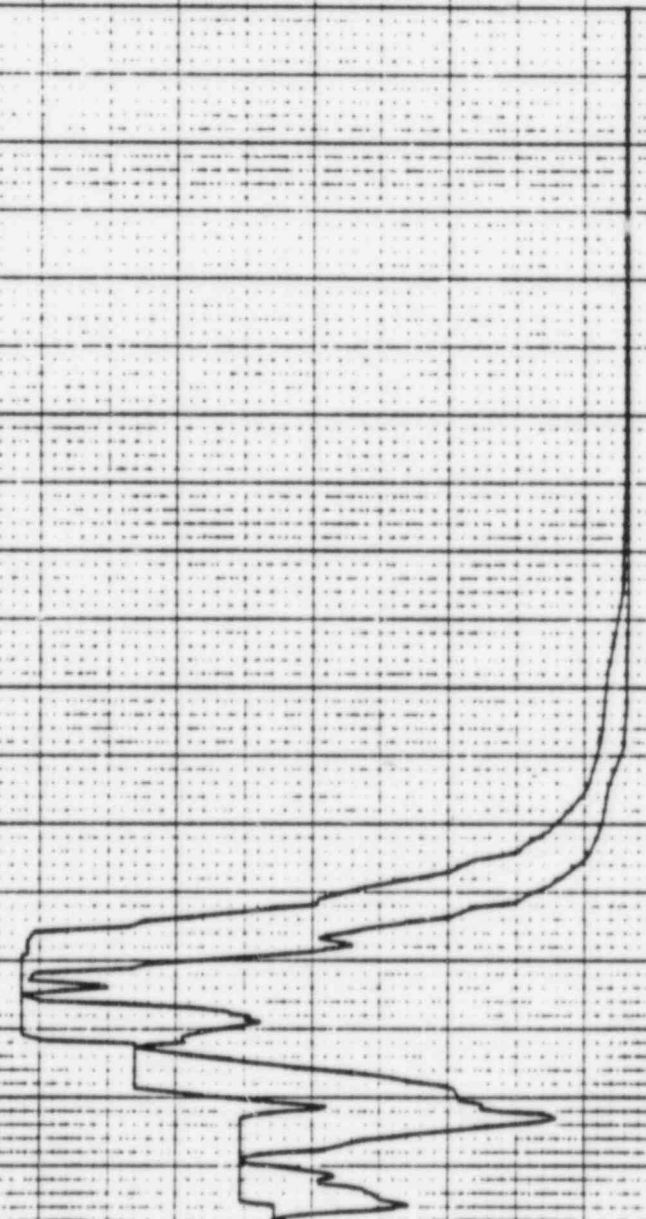
DULF STATES UTILITIES-RBS  
RRS OF ACC.-REACTOR BLDG.  
PEAK SPREAD -20% +55%

DISK CURVE SET NO. 10

NOTE: REACTOR BLDG. ARG.

ACCELERATION G

FREQUENCY IN HZ





572

6 FEB 1963

K. RAY

DAMPING VALUE = 0.020

SPECFIN VER 01 LEV 06  
 GULF STATES UTILITIES-RBS UNIT 1-CALCIP210-W/CJ-SOE-1903 REV11  
 RRS OF ACC.-REACTOR BLDG.-EL=95.000, MASS=10 SEIS MODEL-COMP. SHD. 800  
 PEAK SPREAD -20% #25Z  
 DISK CURVE SET NO. 18  
 1-D 56E VER DIRECTION  
 NOTE: REACTOR BLDG. RRS, PEAK SPREAD FROM 12218-CD1.130.124 (REV 01)

ACCELERATION - G

FREQUENCY IN HZ



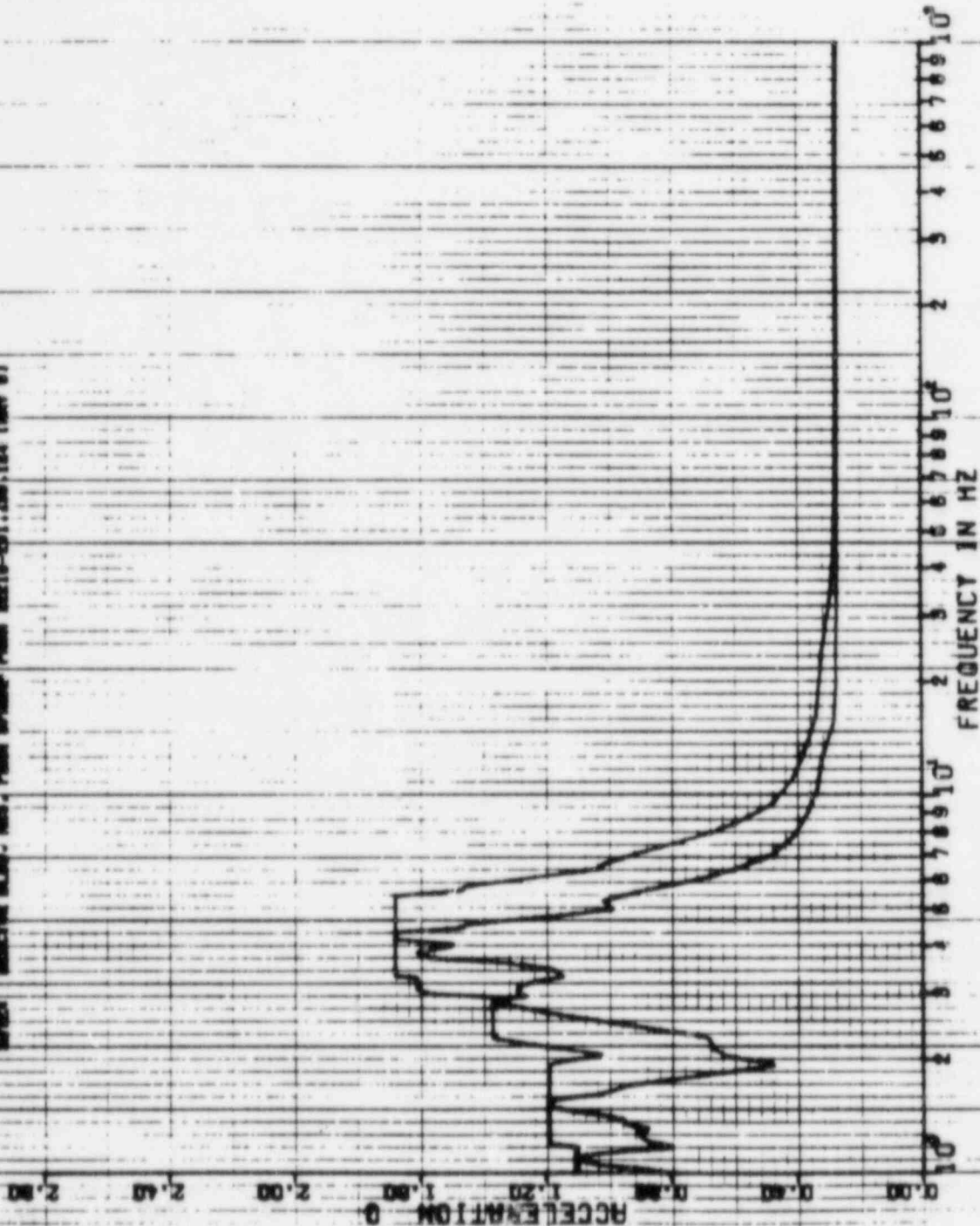
22 APR 1982

35

K. KAY

DAMPING VALUE = 0.050

PROPELLER VER 01 LEV 07  
 GULF STATE UTILITIES-898 UNIT 1-CALC12210-WNICJ-882-1903 REV(0)  
 RRS OF MCC-REACTOR BLDG. EL-06.000. MASS-10 SE18 MODEL-COMP. SNO 800  
 PERK SPEND -201.25Z  
 DISK CURVE SET NO. 18  
 1.0 GSE MOR DIRECTION  
 SPIN INJECTION BLDG. NO. 18. MASS SPEND FROM SE18-201.000.184 (MAY 81)



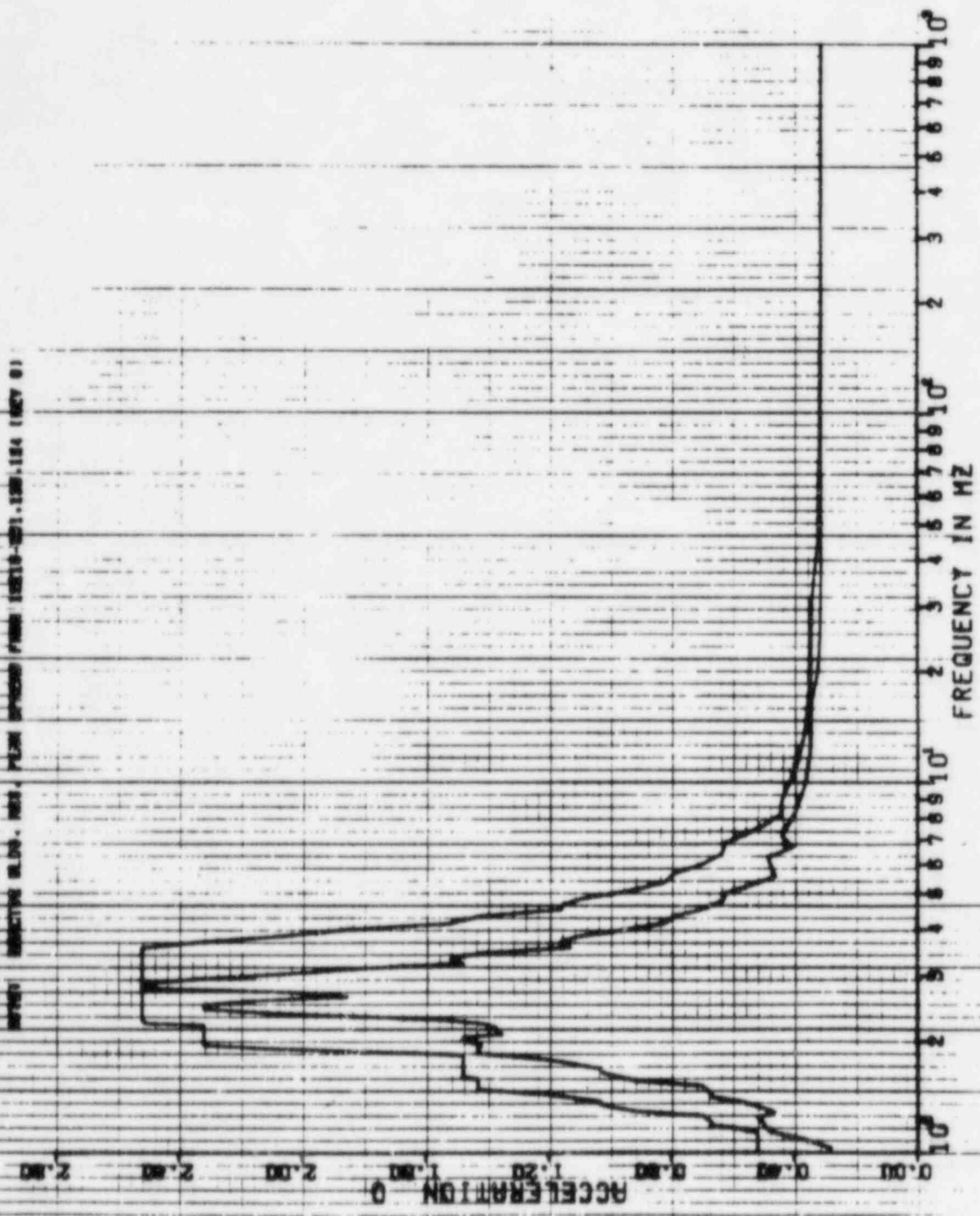
3.53A

22 APR 1962

K. KAY

DAMPING VALUE = 0.030

PAPER VER 01 LEY 07  
 DULY STATE UTILITIES-RBS UNIT 1-CALC12210-RM(C)-66E-1905 REV(0)  
 RBS OF REC.-REACTOR BLDG.-EL=66.000.HASS=10 SEIS MODEL-COMP-SMD 800  
 PEAK SPEED -201.425Z  
 DISK CURVE SET NO.18  
 1-0 66E VER DIRECTION  
 10819-201.120.184 (REV 0)





7.0.0

12 APR 1982

A. MAY

DAMPING VALUE = 0.040

PSPECTRA VER 01 LEV 01  
 COUN STATE UTILITIES-PBS UNIT 1-CR102210-NH101-SQB-1903-REV001  
 PPS OF ACC-REACTOR BLOC .BL55.000 .PASS=NO SEIS MODEL-COMP .SHD B00  
 FROM SBR000 .002 .250  
 DISK CURVE SBT NO 18  
 I 10 SSE HOR DIRECTION  
 NOTE: DATA ON BLOC ARE FROM SBR000 FROM 1971-01-01 TO 1971-12-31 (MEV DN)

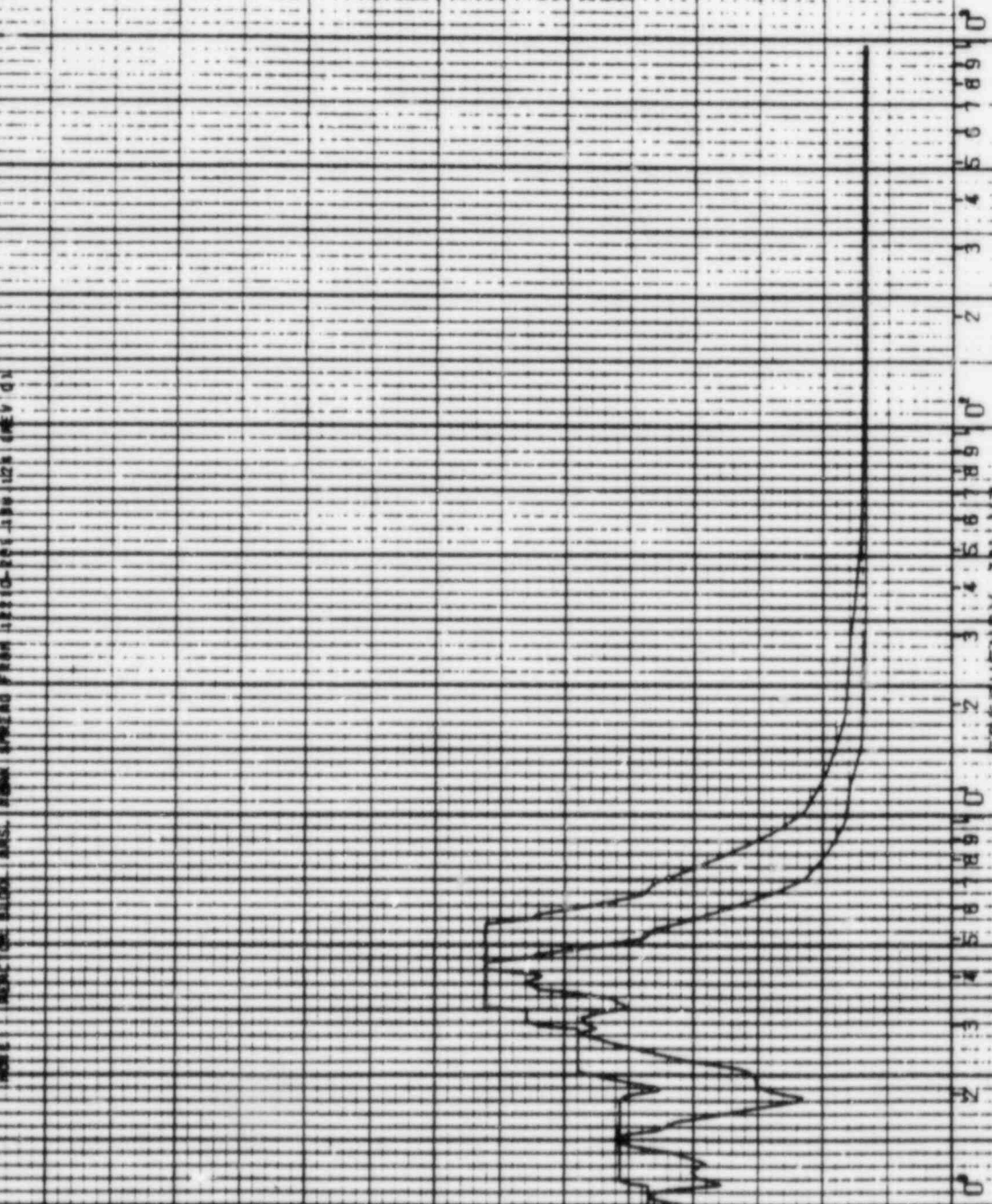
HOR DIRECTION

I 10 SSE

NOTE: DATA ON BLOC ARE FROM SBR000 FROM 1971-01-01 TO 1971-12-31 (MEV DN)

ACCELERATION G

FREQUENCY IN HZ





119A

22 APR 1982

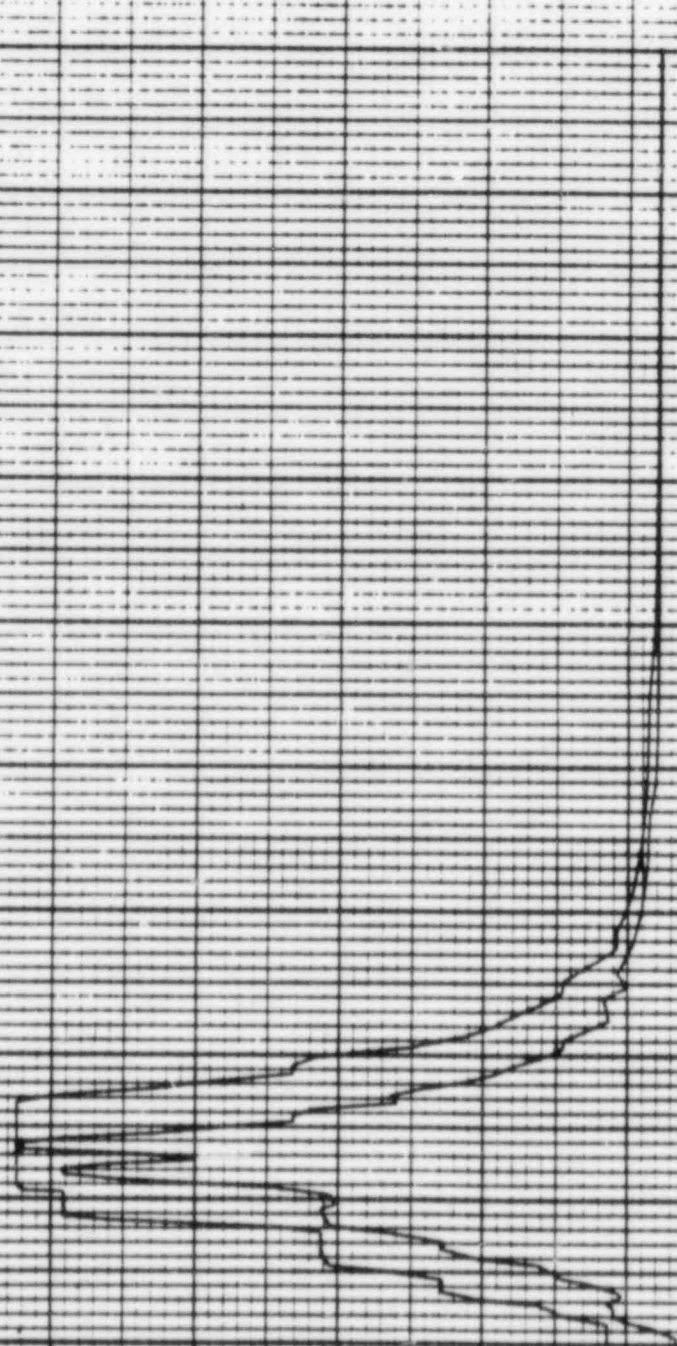
K. KRY

DAMPING VALUE = 0.040

PSPECTRA VER 04 LEV 07  
 CULP STATE UTILITIES-RBS UNIT 1 - CALCULATED-NHICU-50E-1908 REV 03  
 RRS OF REC REACTOR BLDG. EL-95.000. MASS-10 SEIS. MODEL-COMP. SHD. BDD.  
 PEAK SPREAD - 20% ± 25%  
 DISK CURVE SET NO. 18

N.D. 55E VER DIRECTION

NOTE: READERS SHOULD REFER TO PEAK SPREAD FROM FIGURE FOR 1.50. 1.4 INCH D)



10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup>  
 1 2 3 4 5 6 7 8 9 10  
 FREQUENCY IN HZ

0.000 1.000 2.000  
 0.000 1.000 2.000  
 0.000 1.000 2.000  
 0.000 1.000 2.000  
 0.000 1.000 2.000

22 APR 1982

2000

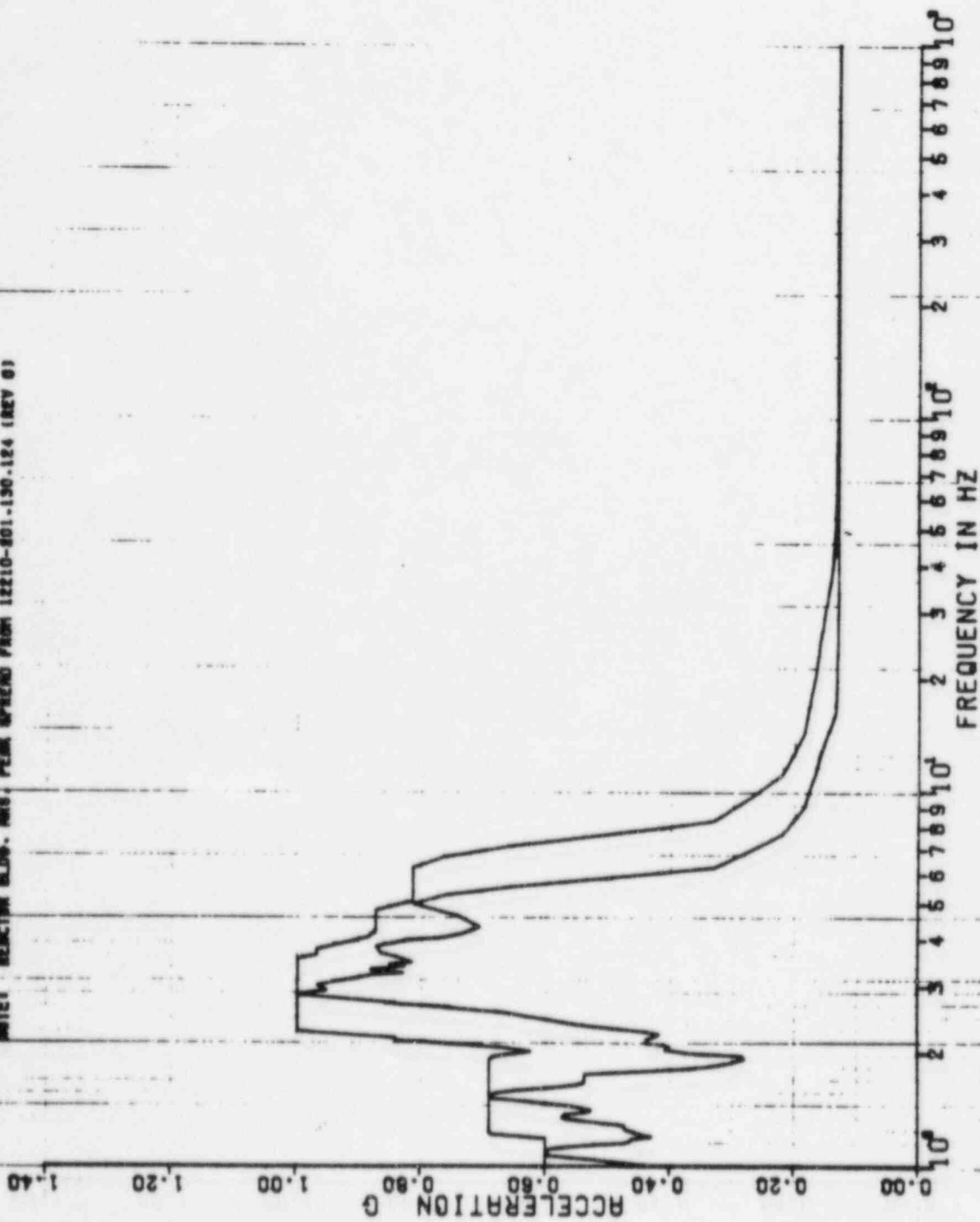
K. RAY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 07  
 GULF STATE UTILITIES-R86 UNIT 1-CALC(2210-NM(C))-60E-1909 REV(0)  
 MRS OF ACC.-REACTOR BLDG.-EL-85.000, MASS=34 SEIS MODEL-COMP.SHD.BLDG  
 PEAK SPREAD -20%, +25%

DISK CURVE SET NO.65  
 0.5 SSE MOR DIRECTION

NOTE: REACTOR BLDG. MSB, PEAK SPREAD FROM 12210-801.130.124 (REV 8)



PSPECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NM(C)-6QE-1909 REV(0)  
RRS OF ACC.-REACTOR BLDG-EL-85.000.MASS=94 SEIS MODEL-COMP.5HD.BLDG  
PEAK SPREAD -20%.+25% OBE

K.KAY

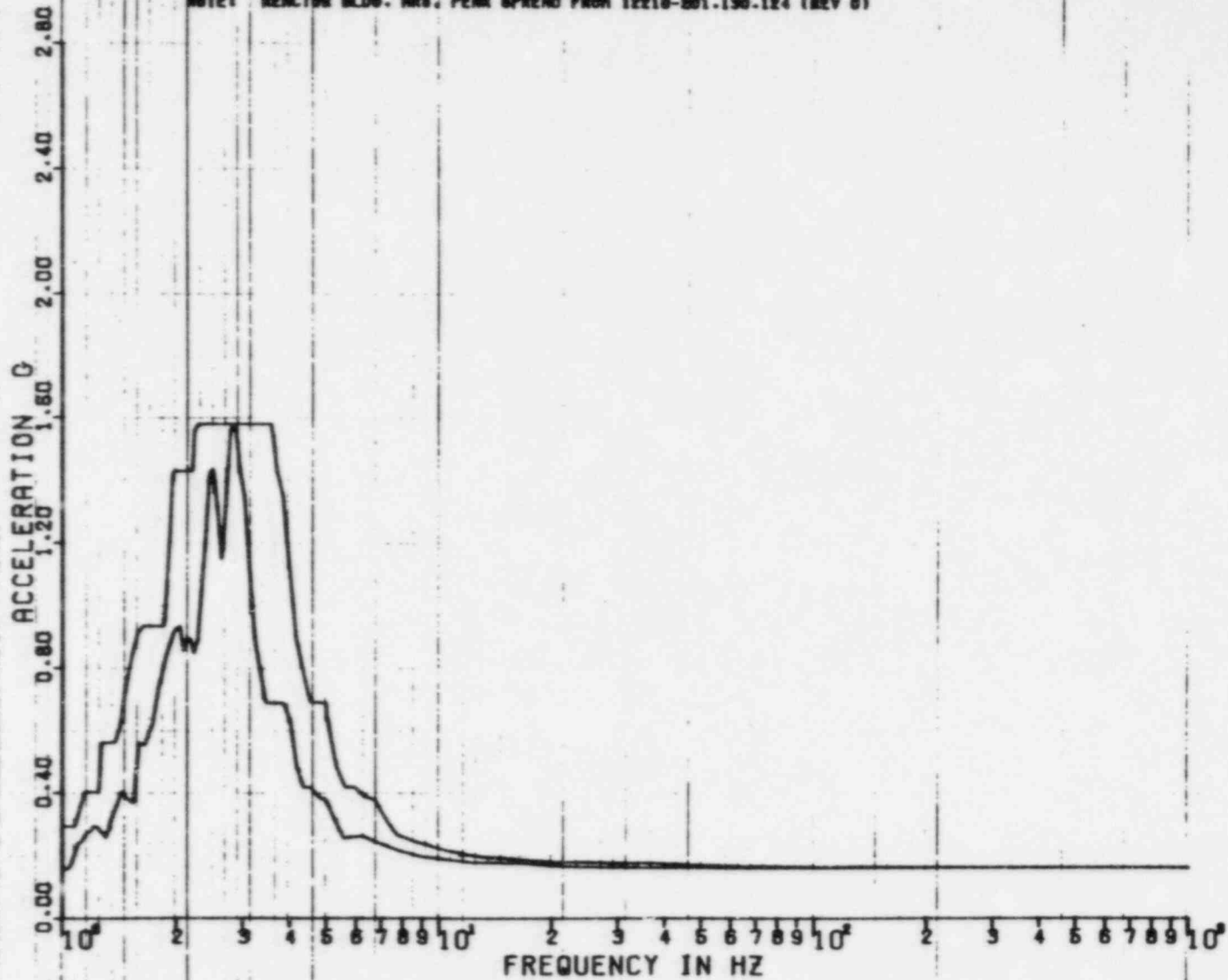
DISK CURVE SET NO.65

0.5 SSE

VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RRS. PEAK SPREAD FROM 12210-001-130-124 (REV 0)



6647

8 FEB 1985

K. KRY

DAMPING VALUE = 0.020

UNIT 1-CALC12210-NR1C7-SDE-1903 REV(1)  
EL-85.000, MR55-34 5E16 MODEL-COMP-SMD-BL00  
SEE

1.0 55E HDR DIRECTION

NOTE: REACTOR BLDG. AREA PEAK SPREAD FROM (2210-001.130.184 180V D)

VER 01 LEV 08

GULF STATES UTILITIES-RBS  
RRS OF ACC.-REACTOR BLDG.  
PEAK SPREAD -20Z +25Z

DISK CURVE SET NO.66

PSPECTRA

UNIT 1-CALC12210-NR1C7-SDE-1903 REV(1)

DISK CURVE SET NO.66

NOTE: REACTOR BLDG. AREA PEAK SPREAD FROM (2210-001.130.184 180V D)

VER 01 LEV 08

GULF STATES UTILITIES-RBS  
RRS OF ACC.-REACTOR BLDG.  
PEAK SPREAD -20Z +25Z

DISK CURVE SET NO.66

NOTE: REACTOR BLDG. AREA PEAK SPREAD FROM (2210-001.130.184 180V D)

PSPECTRA

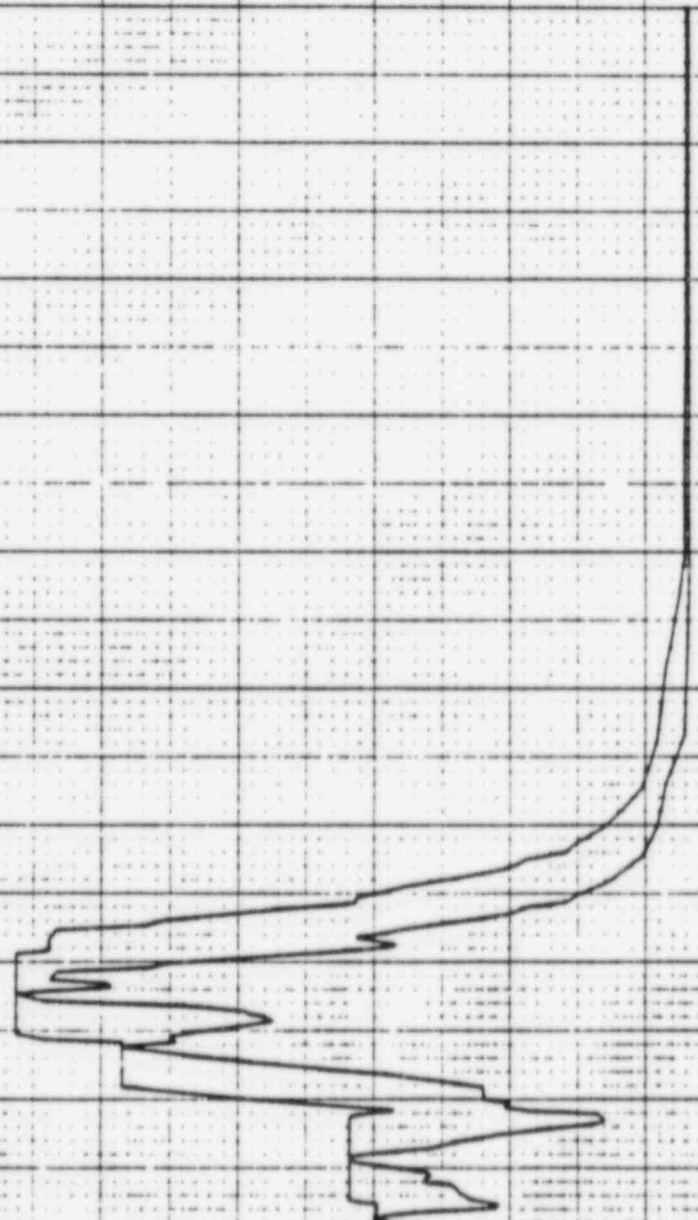
UNIT 1-CALC12210-NR1C7-SDE-1903 REV(1)

DISK CURVE SET NO.66

NOTE: REACTOR BLDG. AREA PEAK SPREAD FROM (2210-001.130.184 180V D)

ACCELERATION 0 0.40 0.80 1.20 1.60 2.00 2.40 2.80

10<sup>0</sup> 2 3 4 5 6 7 8 9 10<sup>1</sup>  
FREQUENCY IN HZ





655A

8 FEB 1963

K. KRY

DAMPING VALUE = 0.020

PSPECTRA VER ON LEV 08  
DRLF STATES UTILITIES-RBS UNIT 1-CALC12210-MNCT-50E-19D3 REV111  
RRS OF ACC.-REACTOR BLDG. EL-85.000, MASS=34 5E15 MODEL-COMP.5MD.8.00  
PEAK SPREAD -20Z. +25Z

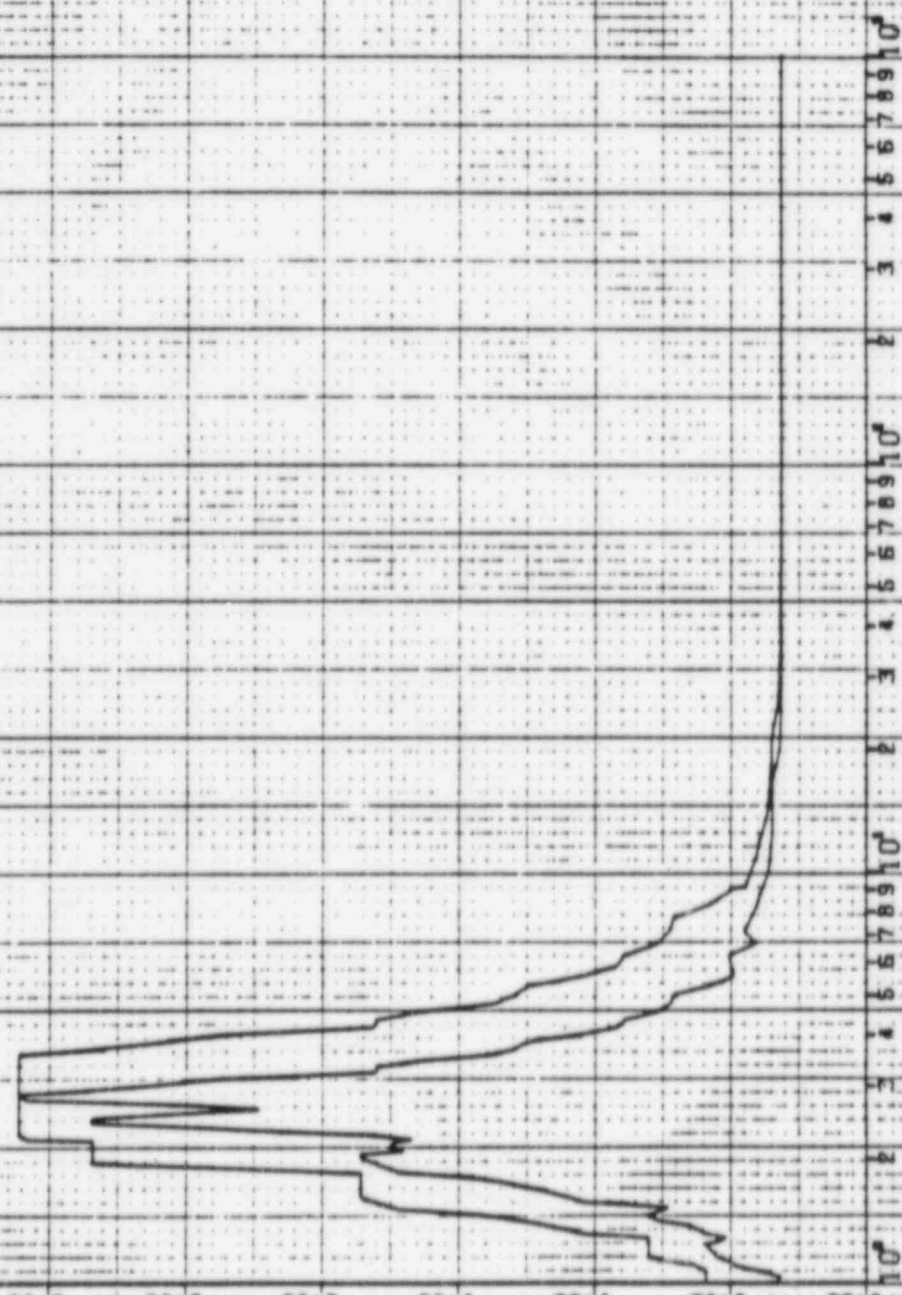
1.0 55E VER DIRECTION

NOTE: REACTOR BLDG. RBS PEAK SPREAD FROM 12210-101.136.184 (REV 8)

DISK CURVE SET NO.55

ACCELERATION

FREQUENCY IN HZ



22 APR 1982

77

K. KRY

DAMPING VALUE = 0.030

PSPECTRA VER 01 LEV 07

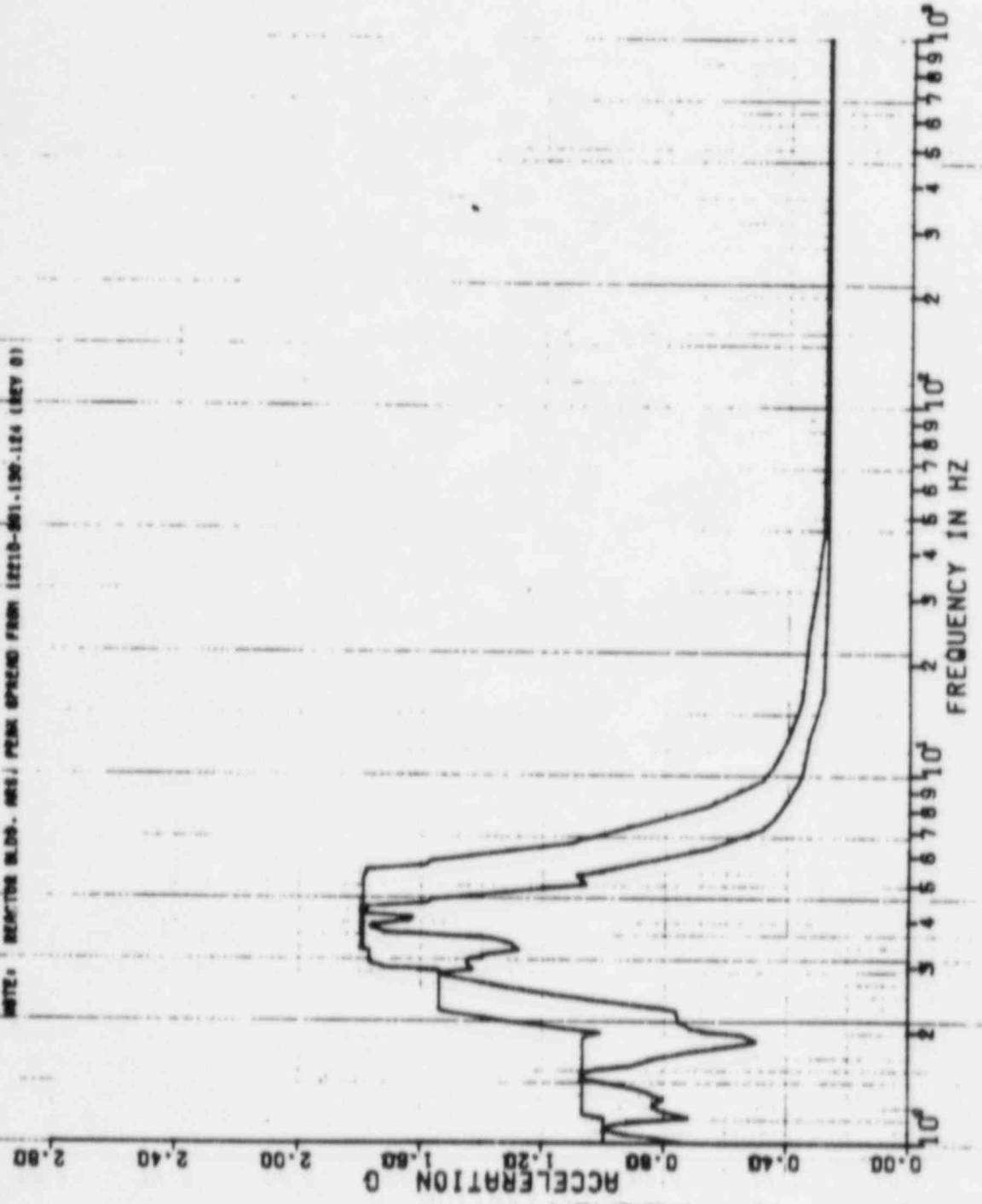
DULF STATE UTILITIES-RB6 UNIT 1-CALC12210-NM1C1-50E-1803 REV(0)  
RMS OF ACC.-REACTOR BLDG. EL-85.000, MASS-94 SEIS MODEL-COMP-SHD-BLDG  
PEAK SPREAD -20%+25Z

DISK CURVE SET NO.88

1.0 SSE

HOR DIRECTION

NOTE: REACTOR BLDG. MASS PEAK SPREAD FROM 0210-001.190-124 (REV 8)



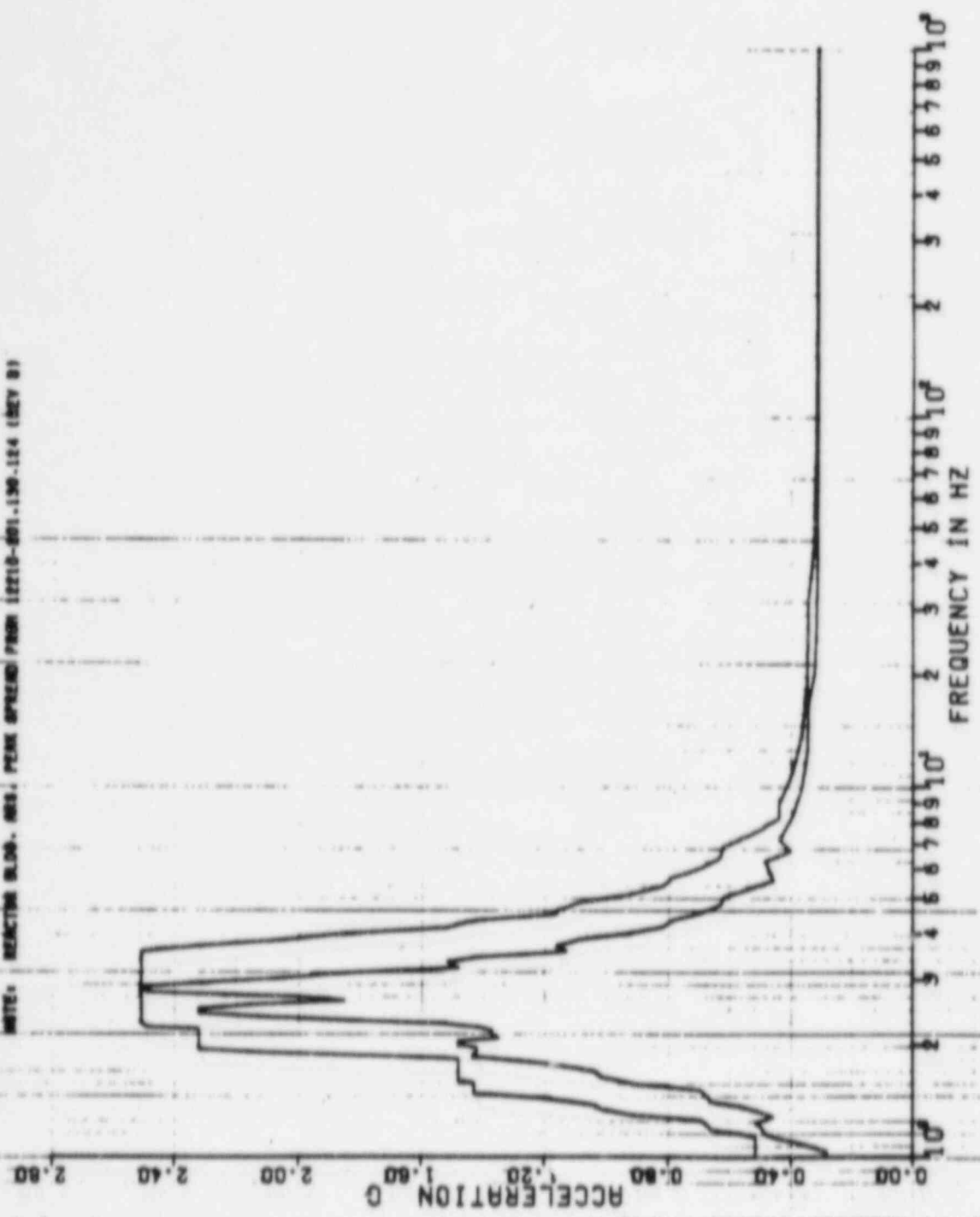
22 APR 1982

AD...

K.KAY

DAMPING VALUE = 0.030

PSPECTR VER 01 LEV 07  
 DULF STATE UTILITIES-R86 UNIT 1-CALC12210-WMIC1-SQE-1903 REV(0)  
 RRS OF ACC.-REACTOR BLDG. EL-86.000.MASS-34 SEIS MODEL-COMP.SMD.BLOG  
 PEAK SPREAD -20Z.+25Z  
 DISK CURVE SET NO.66  
 1.0 SSE VER DIRECTION  
 NOTE: REACTOR BLDG. RES. PEAK SPREAD FROM 12210-801.130-124 (REV B)



416

22 APR 1987

K. KBY

DAMPING VALUE = 0.010

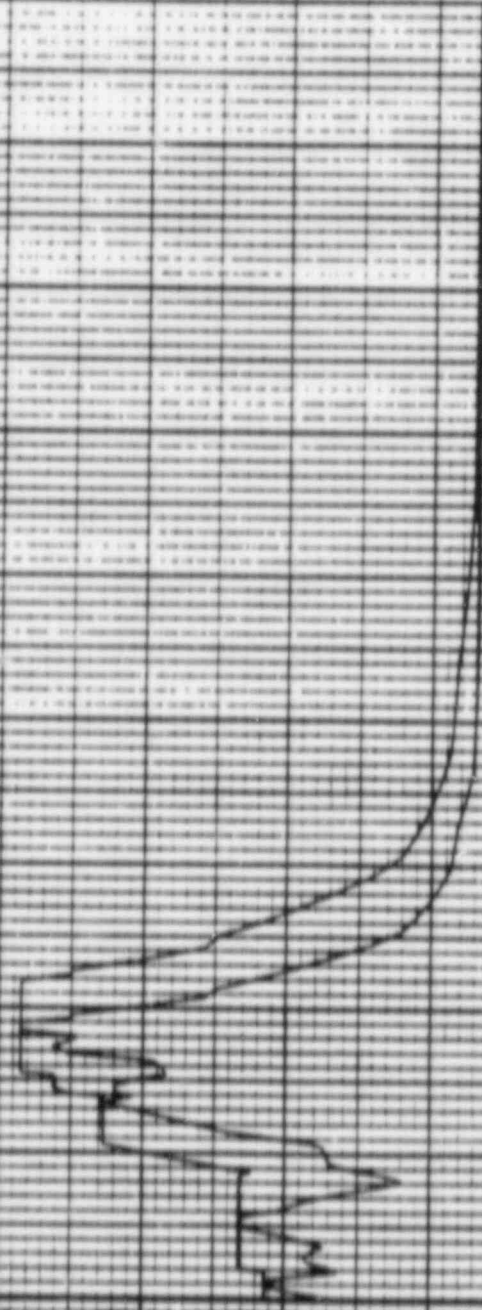
INSPECTED PER 01 LEV 07  
 GULF STATE UTILITIES-RBS WB1  
 RBS OF ACC-REACTOR BLOC (L-85 800 MASS-34 SC 5 ROBEK-COMP, SMD-BLOC  
 PEAK SPREAD 1.03 1.25

DISK CURVE SET NO. 66  
 .0 SEC HOR DIRECTION

NOTE: REACTOR BLOC, MASS, PEAK MASS 822.6-823.1 (SD 1.44) (REV 6)

RECEPTION 0  
 0.0K 0.4K 0.8K 1.2K 1.6K 2.0K 2.4K 2.8K

10  
 2 3 4 5 6 7 8 9 10  
 FREQUENCY IN HZ  
 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup> 10<sup>9</sup> 10<sup>10</sup>





1024

22 APR 1967

KRY

DAMPING VALUE = 0.080

SPECTRA VER 01 LEY 07

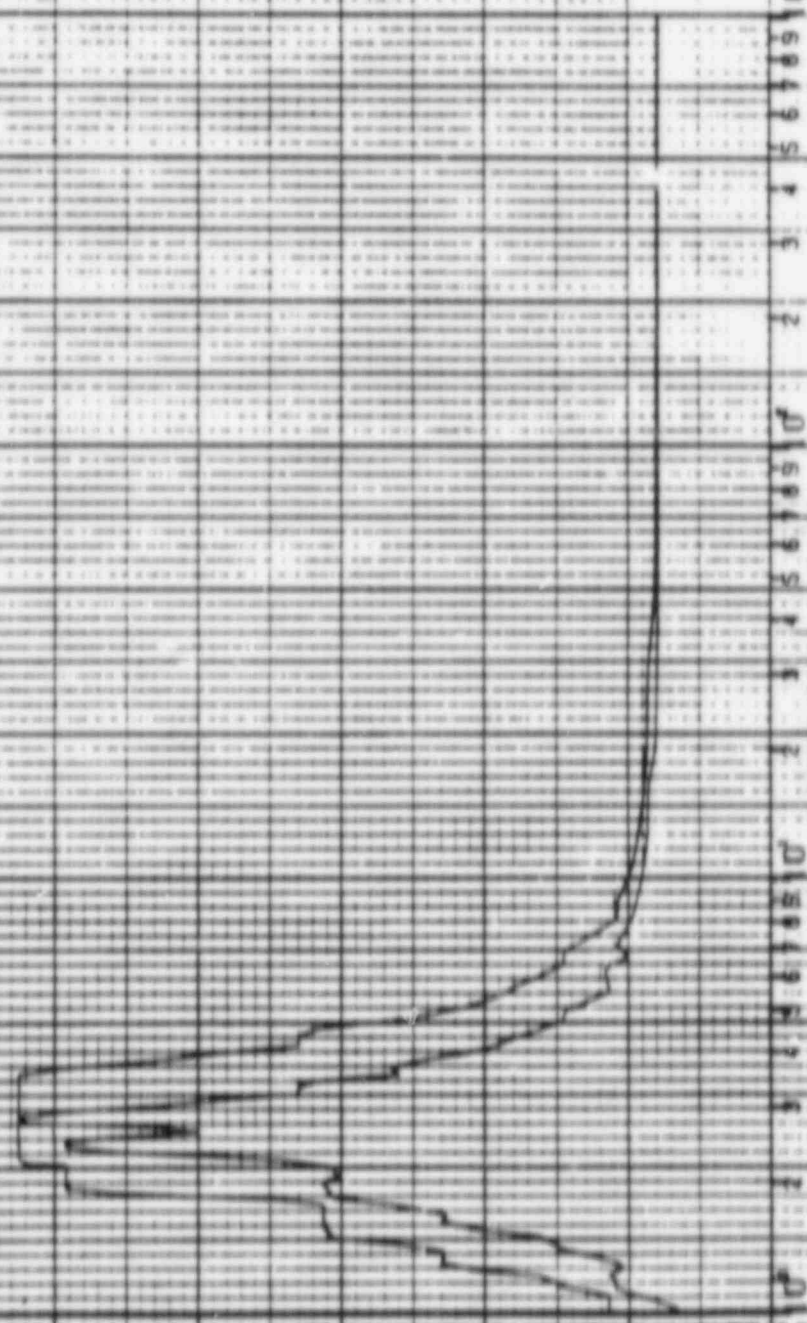
SELF STABIL UTIL VIBS MBS 001 - COLLECTION MBS (1-500-100) REV (0)  
MBS OF REC. REACTOR BLDG (L-85 000) MBS-34 SE 5 MODEL-CAMP SMO-BLNC  
PERF SPEED. 100 1557

DISK CURVE SET 80.65  
MBS. MBSYM NLM. MBS. HEAD (MBS) FROM (214-00) (20) (24) (REV 1)

1.0 SSE VER DIRECTION

ACCELERATION  
0 0.40 0.80 1.20 1.60 2.00 2.40 2.80

FREQUENCY IN HZ  
0 1 2 3 4 5 6 7 8 9 10



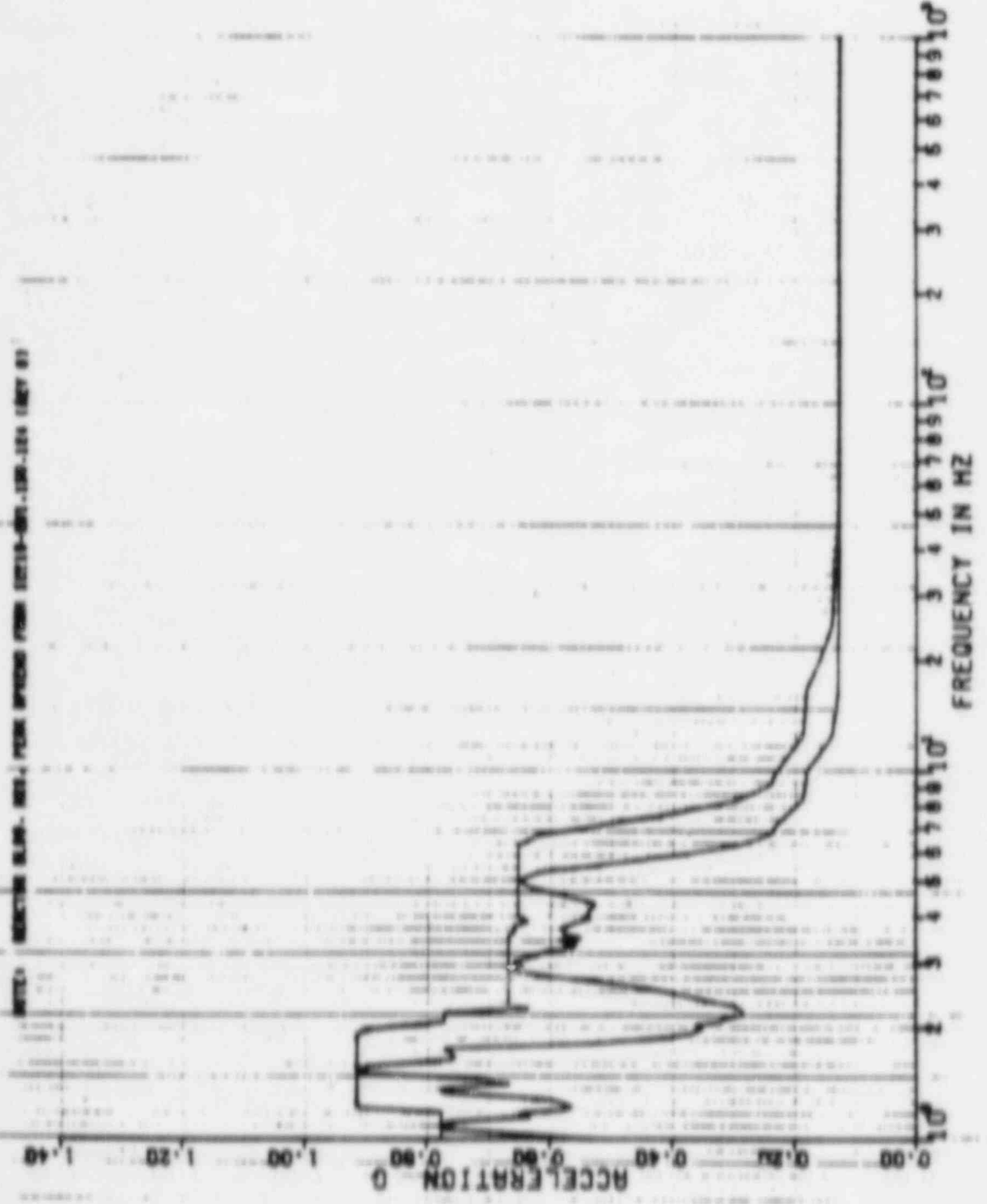
2. A

22 APR 1982

R. KIST

DAMPING VALUE = 0.020

PSECTRA VER 01 LEY 07  
 GULF STATE UTILITIES-RBB UNIT 1-CALC(12210-MN(1)-SSE-1903 REV(01)  
 RBS OF MCC-REACTOR BLDG-EL-114-00-MRSS-11 SEIS MODEL-STEEL CONT.  
 PERM SPREND -E01,+E52  
 DIR CURVE SET NO-18      0-5 SSE      HOR DIRECTION  
 NOTE: REACTOR BLDG. RBS. PERM SPREND FROM SETS 19-20A-100-10A (REV 01)



22 APR 1962

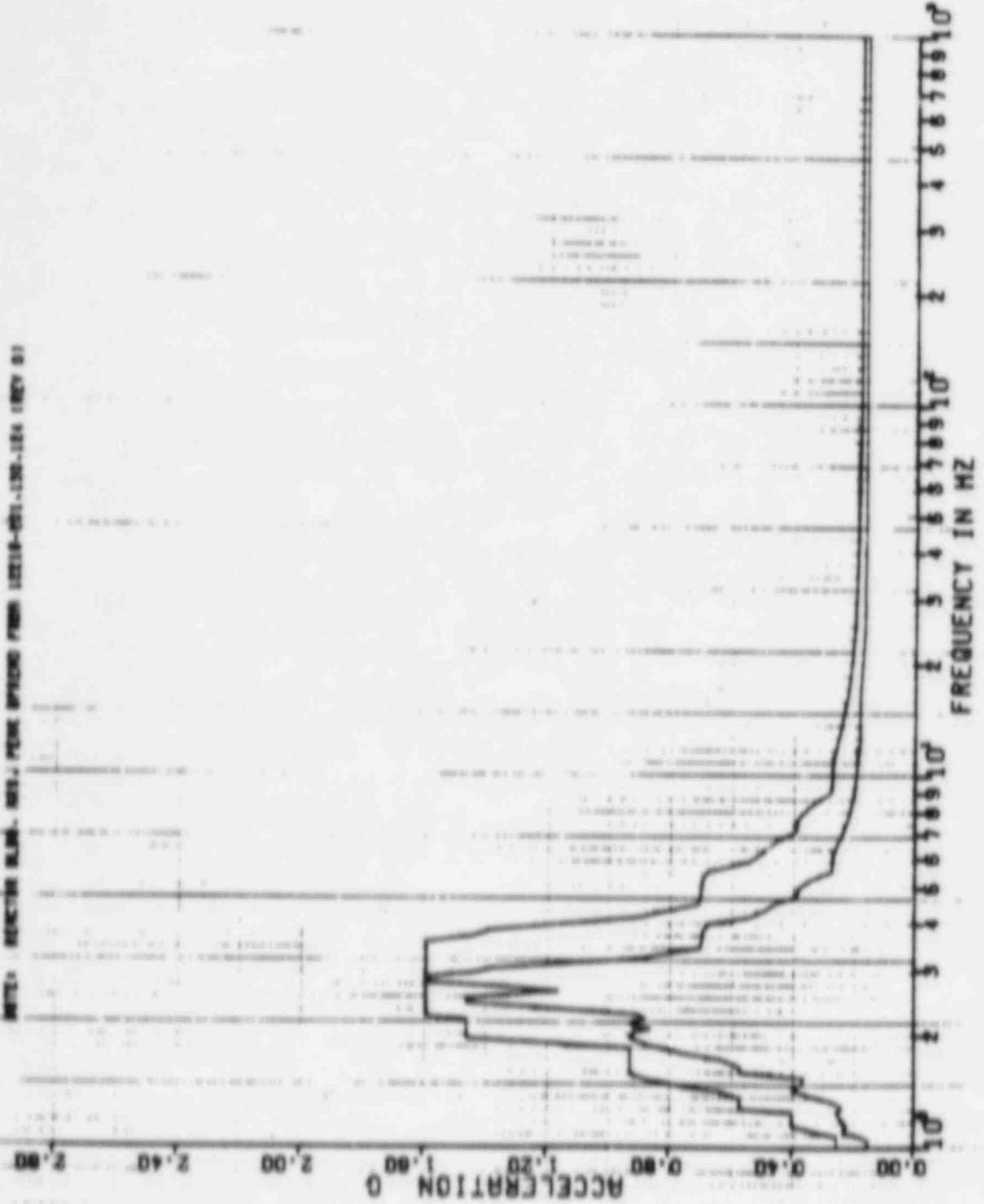
K. KAY

DAMPING VALUE = 0.020

PEPECTRA VER 01 LEY 07  
 GULF STATE UTILITIES-RBS UNIT 1-CALC18210-WHIC3-80E-1903 REV107  
 RBS OF ACC.-REACTOR BLDG-EL-114-00-WSS-11 SEIS MODEL-STEEL CONT.  
 PEAK SPREAD -852.+852  
 DISK CURVE SET NO-18

0.5 SSE VER DIRECTION

NOTE: REACTION BLK. HAS PEAK SPREAD FROM 10218-101130-104 1REY 01



6-3-A

8 FEB 1963

K. KAY

DAMPING VALUE = 0.020

PSPECTRA VER D1 LEV 08  
 GULF STATES UTILITIES-RBS UNIT 1-CALC 12210-MM(C)-S0E-1903 REV(1)  
 RRS OF ACC.-REACTOR BLDG. EL=114.00, MASS=11 SE16 MODEL-STEEL CONT  
 PERK SPREAD -20% +25%  
 DISK CURVE SET NO.20

1-D 55E MOR DIRECTION

NOTE: REACTOR BLDG. HAS PEAR SPACING FROM 12X10-201.150, 184 (REV 8)

2.80

2.40

2.00

1.60

1.20

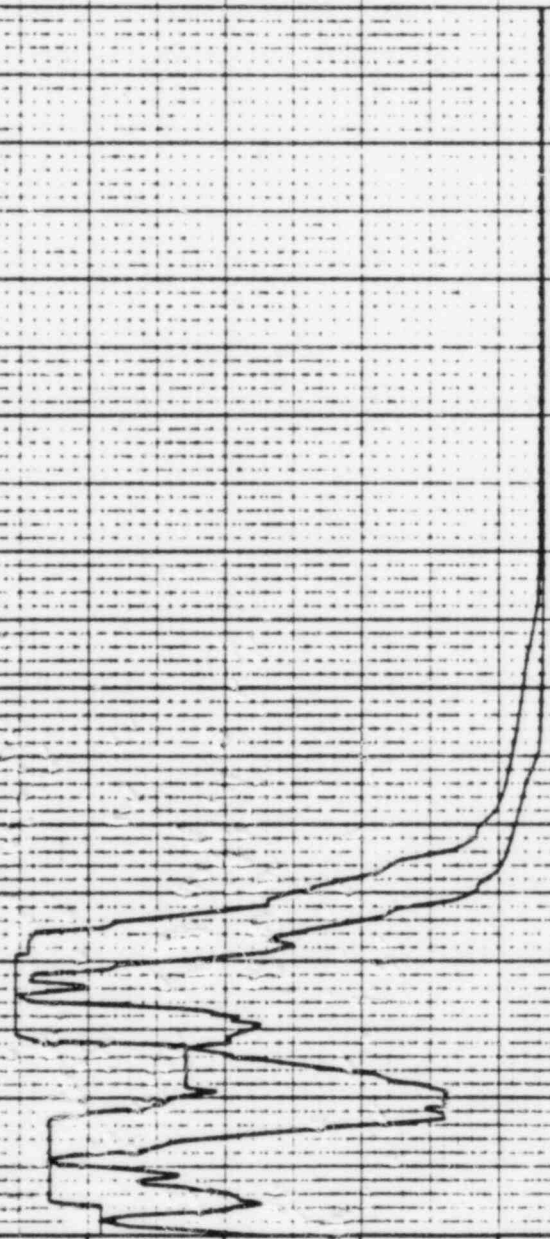
0.80

0.40

0.00

ACCELERATION G

10<sup>0</sup> 2 3 4 5 6 7 8 9 10<sup>1</sup>  
 10<sup>0</sup> 2 3 4 5 6 7 8 9 10<sup>1</sup>  
 10<sup>0</sup> 2 3 4 5 6 7 8 9 10<sup>1</sup>  
 FREQUENCY IN HZ

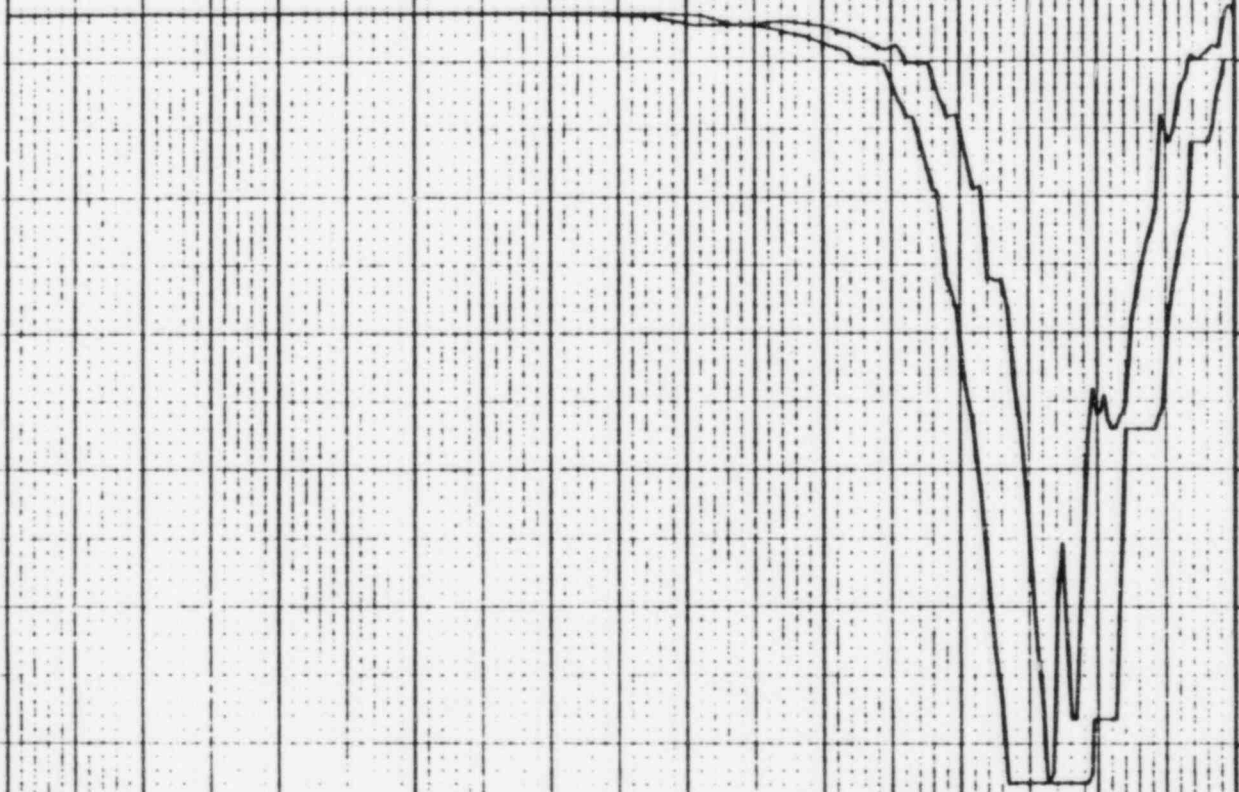




REF 80

FREQUENCY IN HZ  
0.00 0.50 1.00 1.50 2.00 2.50 3.00 3.50  
1 2 3 4 5 6 7 8 9 10

ACCELERATION G



SPECTRA VER 01 LEV 08  
 DULF STATES UTILITIES-RBS UNIT 1-CALC1210-MHC1-60C-1903 REV11  
 RRB OF ACC-REACTOR BLDG. CL=114.00,WRSS=11 516 MODEL-STEEL CONT  
 PEAK SPREAD -20X 425Z  
 DISK CURVE SET NO.20

1.0 55E  
 VER DIRECTION  
 NOTE: REACTOR BLDG. HAS PEAK SPREAD FROM 12218-201.130.184 18CY 01

DAMPING VALUE = 0.020

K. KAY

8 FEB 1983

8.92

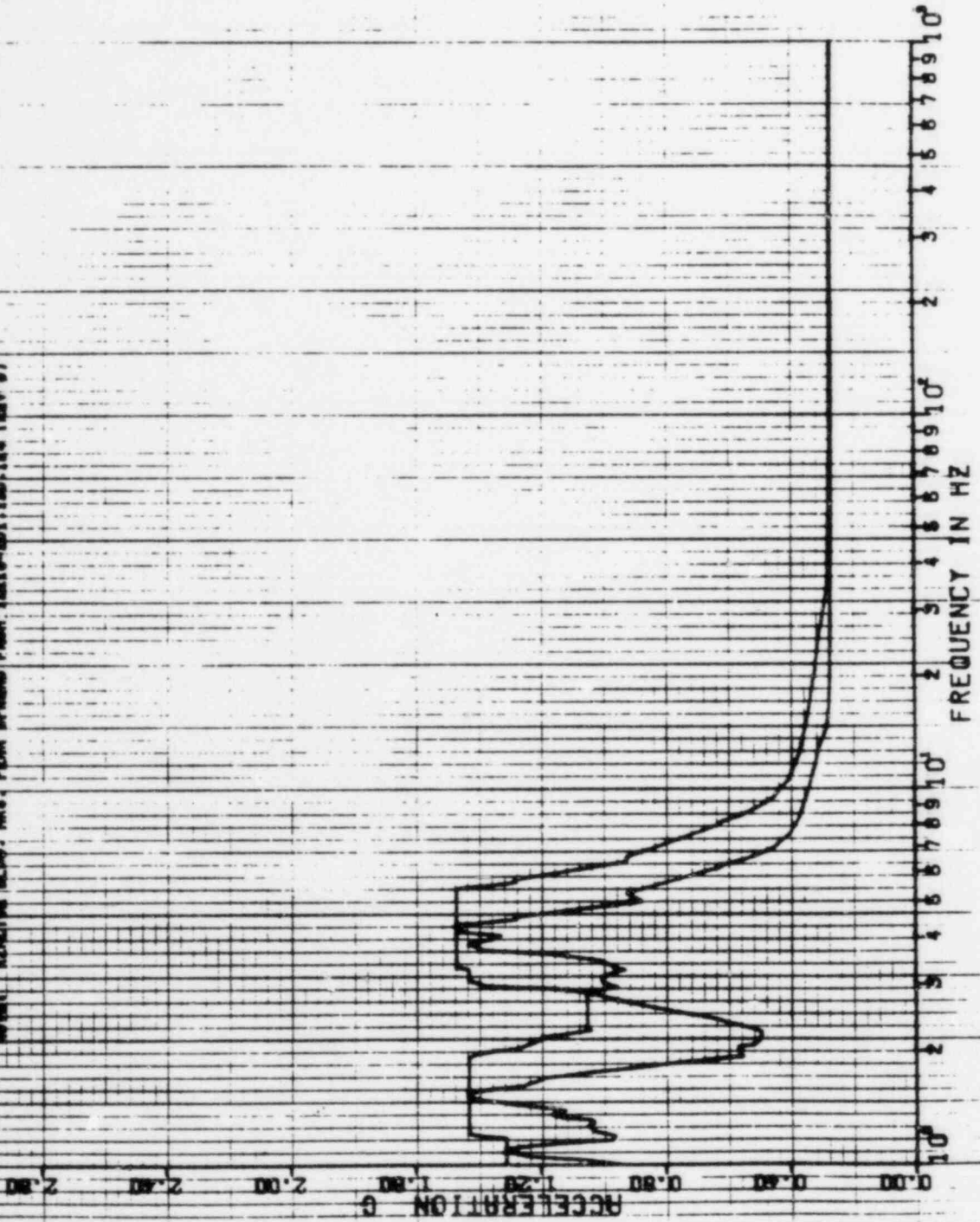
359 A

22 APR 1962

K.KAY

DAMPING VALUE = 0.030

PSPECTRA VER 01 LEV 07  
 GULF STATE UTILITIES-RBS UNIT 1-CALC(2210-NM(C)-50E-1903 REV(0)  
 RKS OF BCC-REACTOR BLDG-EL4114.00-MASS#11 SEIS MODEL-STEEL CONT.  
 PERK SPREAD -20ZL-25Z  
 DISK CURVE SET ND-2D  
 I.D. 55E HDR DIRECTION  
 POINT REACTOR BLDG. RKS. FROM SPREAD FROM (2210-201,120,104,105) 5)

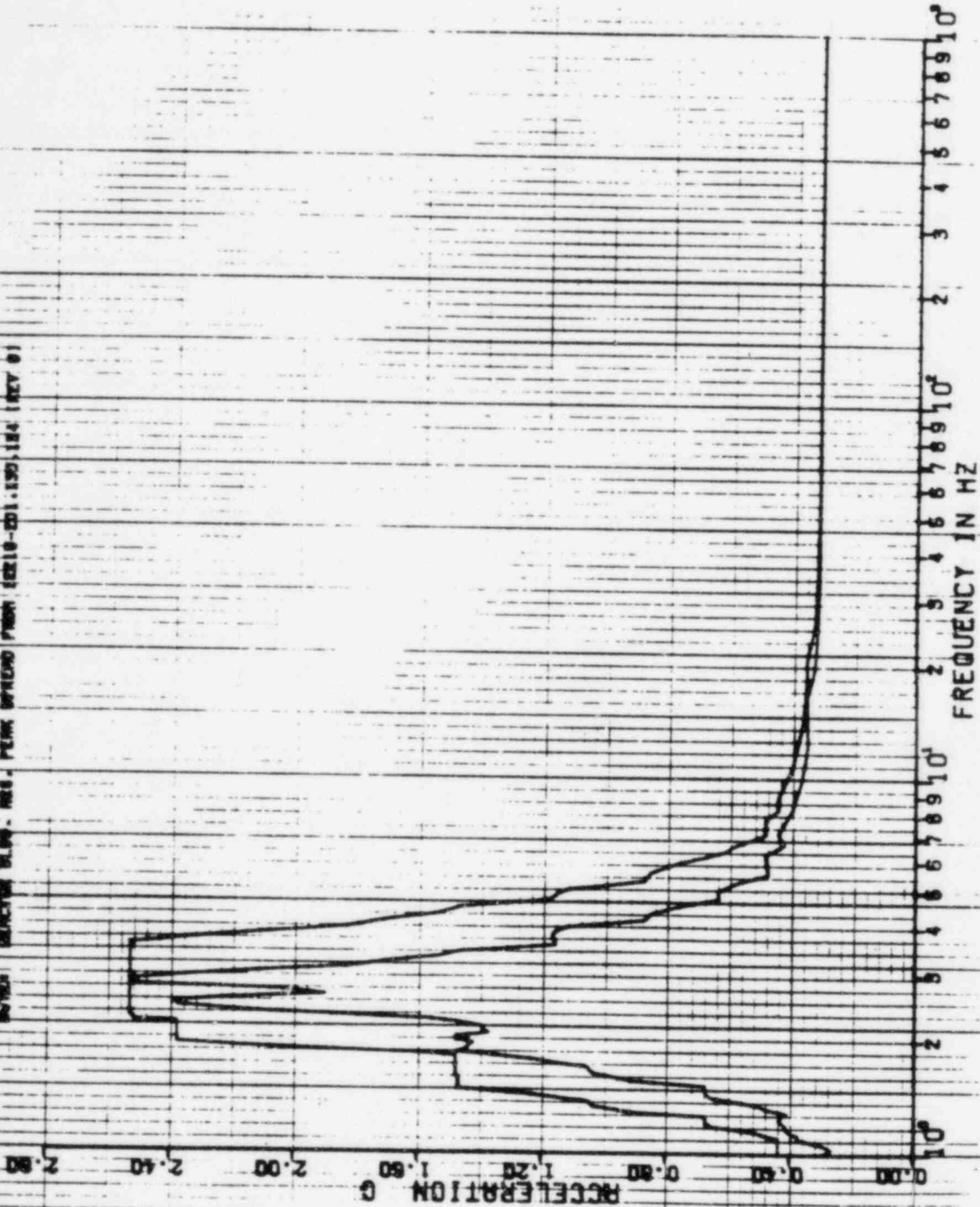


22 APR 1962

K-KAY

DAMPING VALUE = 0.050

PSPECTR VER 01 LEV 07  
 GULF STATE UTILITIES-RBS UNIT 1-CALC12210-MM(C)-582-1503 (REV 10)  
 RRS OF REC.-REACTOR BLDG. EL=114.00, MASS=11 SEIS MODEL-STEEL CONT.  
 PEAK SPREAD -20% +25%  
 DISK CURVE SET NO.20  
 1.0 65E VER DIRECTION  
 REACTOR BLDG. MASS. PEAK SPREAD FROM (2210-201.120)124 (REV 01)





4-11-71

22 APR 1982

K.KRY

DAMPING VALUE = 0.040

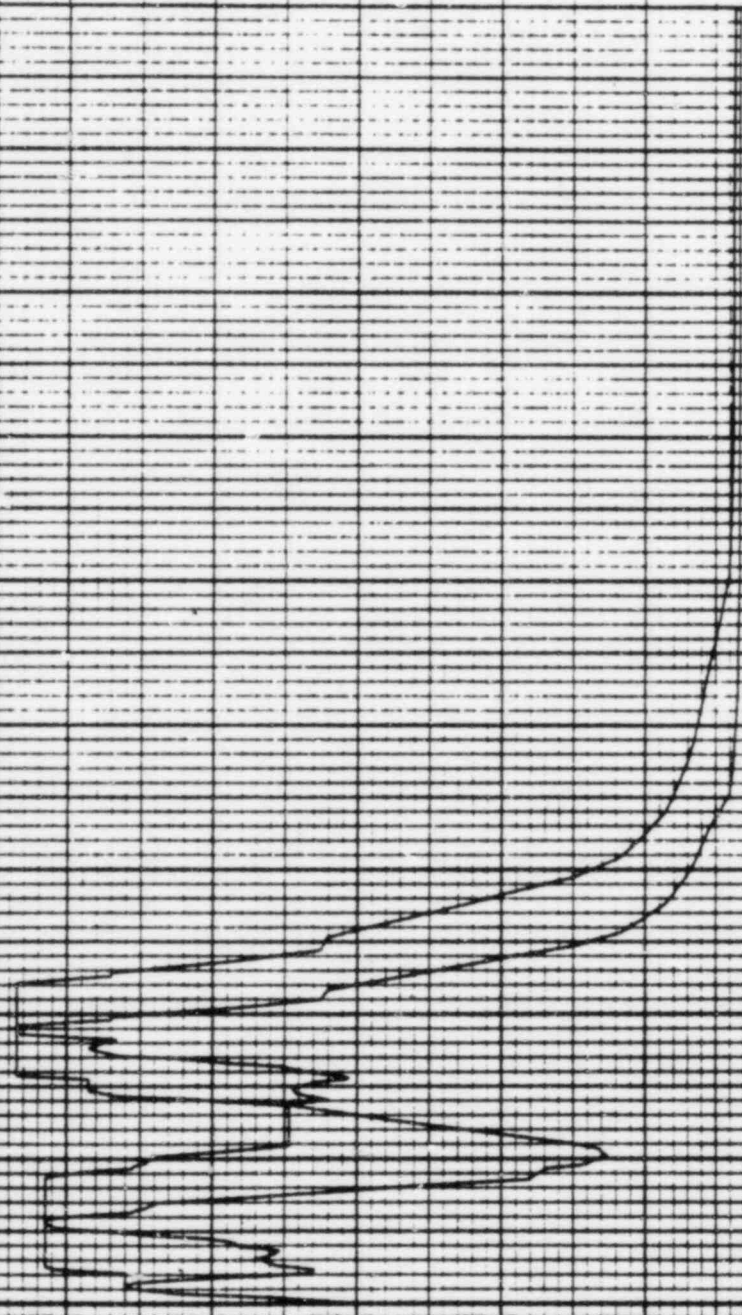
SPECTRA VERI ON LEV D7  
CULY STATE UTILITIES-RBS UNIT 1-CHL 12210-UNIT 1-50E-1908 REV 03  
RBS OF REACTOR BLDG. EL 118.00. MASSEN 5E15 MODEL-STEEL CONT.  
PEAK SPEED 1.20Z.525V

DISK CURVE SET NO. 20  
A. D. 55E HDR DIRECTION

NOTE: REACTOR BLDG RBS PEAK SPEED FROM 1250-200 (50.14 IN/SEC)

ACCELERATION G  
1.00  
0.20  
0.40  
0.80  
1.60  
3.20  
6.40  
12.80  
25.60  
51.20  
102.40

FREQUENCY IN HZ  
10<sup>0</sup>  
2  
3  
4  
5  
6  
7  
8  
9  
10<sup>1</sup>  
2  
3  
4  
5  
6  
7  
8  
9  
10<sup>2</sup>  
2  
3  
4  
5  
6  
7  
8  
9  
10<sup>3</sup>





A.A

22 APR 1982

K. KAY

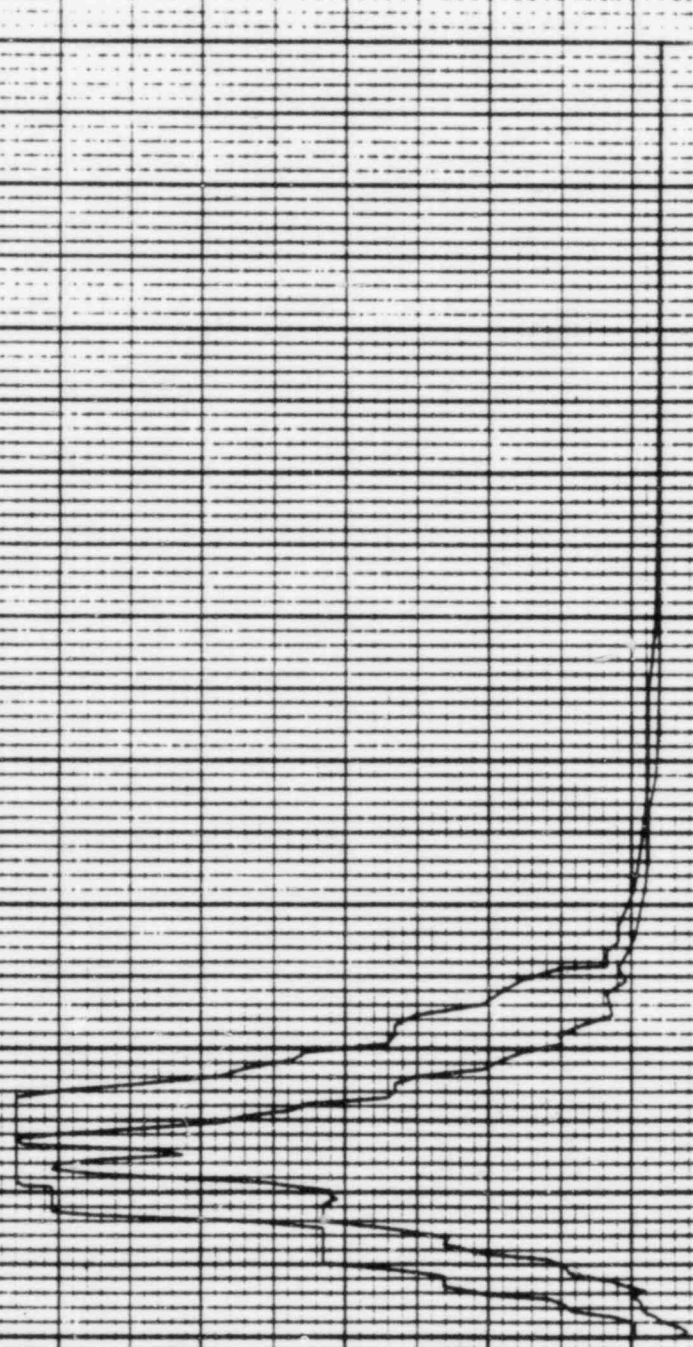
DAMPING VALUE = 0.000

PSPECTRA VER DN LEV D7  
DOLF STAVE UTILITIES-RBS UNIT 1-CAL-12210-NR117-50E-1908 REV D)  
RBS OF ACC-REACTOR BLDG-EL-114-00-MASSE-11 5E15 MODEL-STEEL (CWT,  
PEAK SPEED 1.20V, 1.25V

DISK CURVE SET NO. 201  
1. D 55E VER DIRECTION

NOTE: REACTOR BLDG. RBS. PEAK SPEED (MOM 12210-501, 50L 14 186V D)

ACCELERATION G  
0.00 0.40 0.80 1.20 1.60 2.00 2.40 2.80



FREQUENCY IN HZ  
10^0 10^1 10^2 10^3  
1 2 3 4 5 6 7 8 9 10

PSPECTRA VER 01 LEV 07

22 APR 1982

DULF STATE UTILITIES-RAB UNIT 1-CALC(2210-NMIC)-8QE-1903 REV(0)  
RMS OF ACC.-REACTOR BLDG-EL=133.00, MASS=12 SETS MODEL-STEEL CONT.  
PEAK SPREAD -20%, +26%

2.174

DISK CURVE SET NO.21

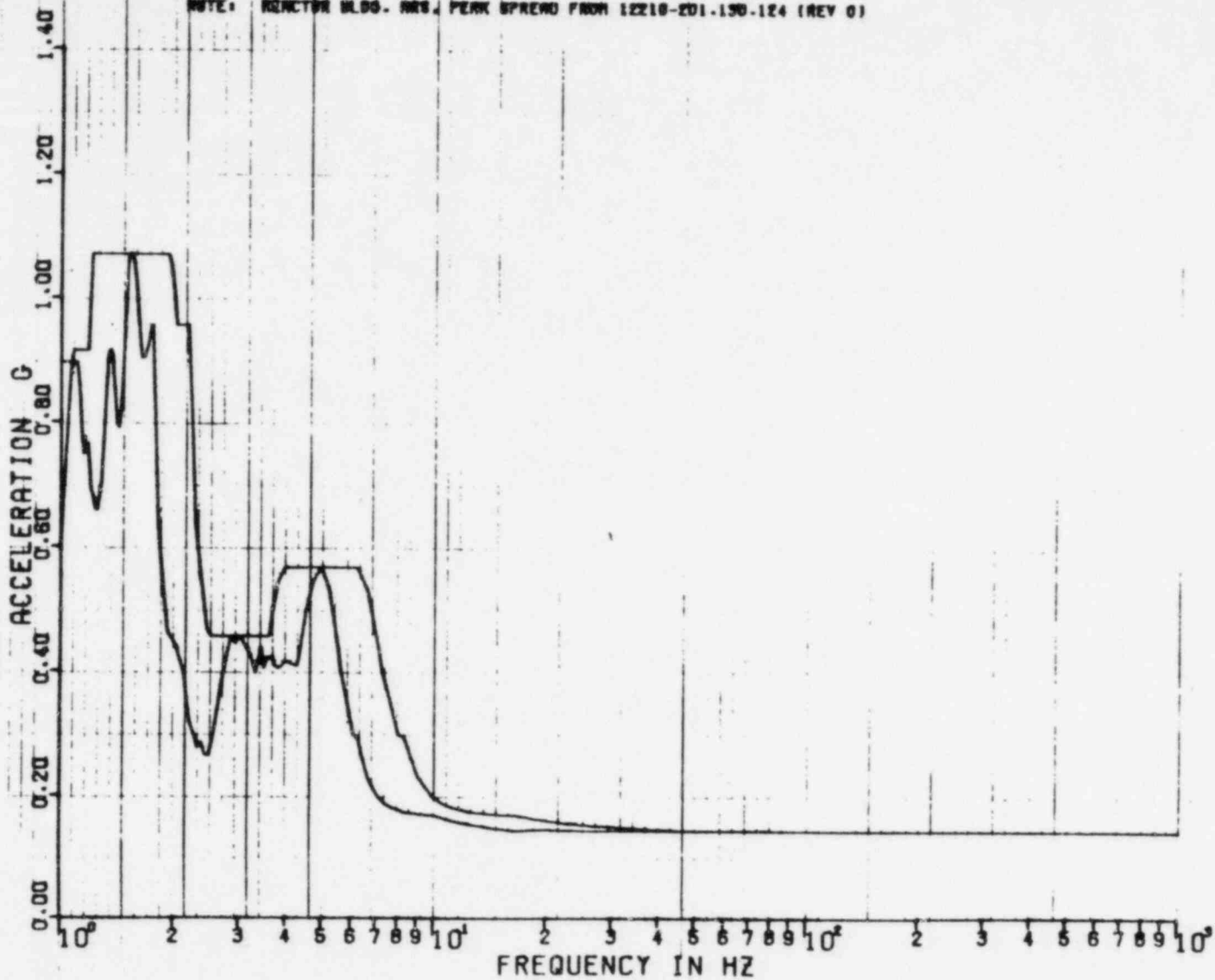
0.5 SSE

HOR DIRECTION

K.KAY

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RMS. PEAK SPREAD FROM 12210-201-130-124 (REV 0)



REF 81

PSPECTRA VER 01 LEV 07

22 APR 1982

20. A

DULF STATE UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(0)  
RBS OF ACC.-REACTOR BLDG-EL=133.00.MASS=12 SEIS MODEL-STEEL CONT.  
PEAK SPREAD -20%.+25%

OBE

K.KAY

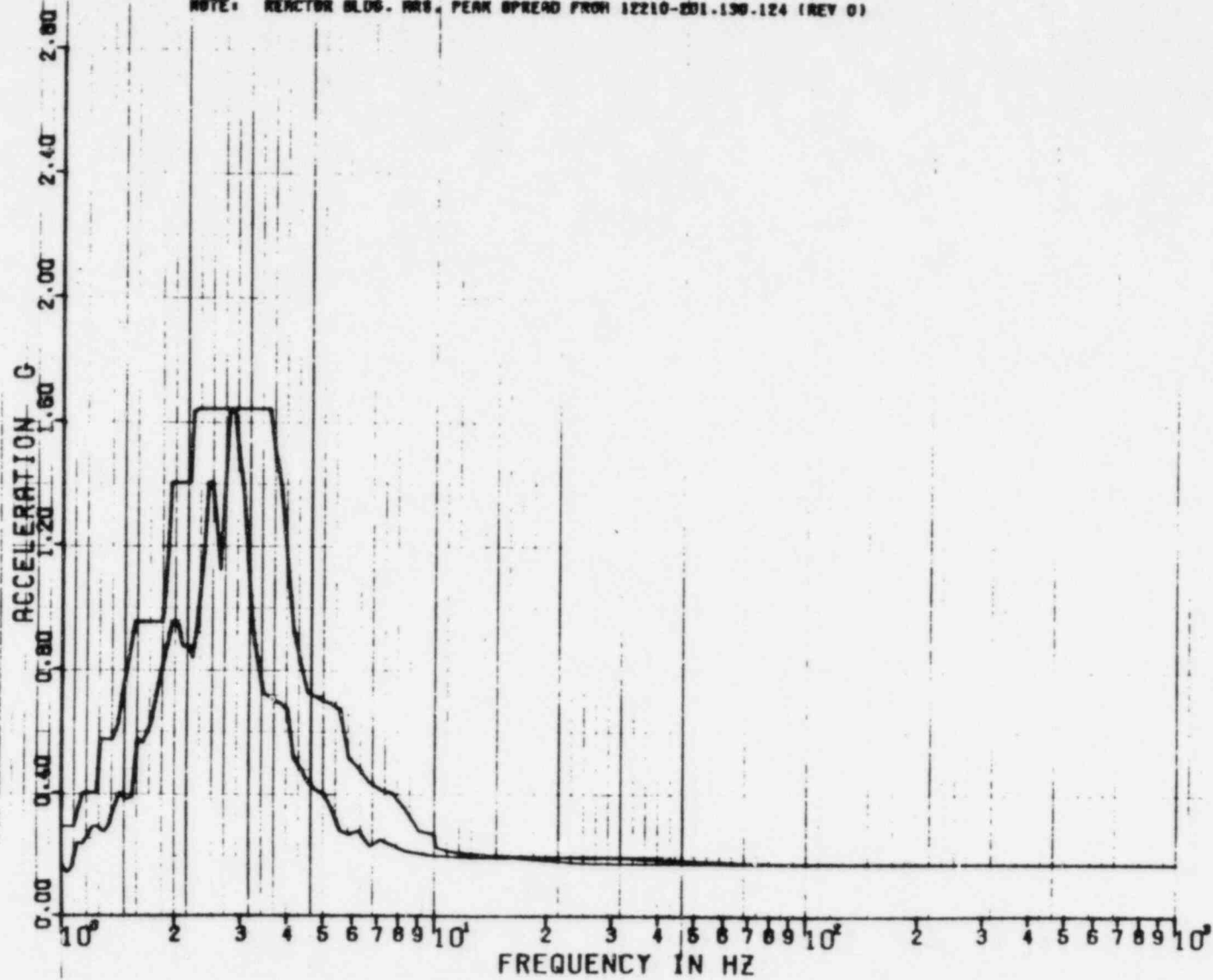
DISK CURVE SET NO.21

0.5 SSE

VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RBS. PEAK SPREAD FROM 12210-201.130.124 (REV 0)



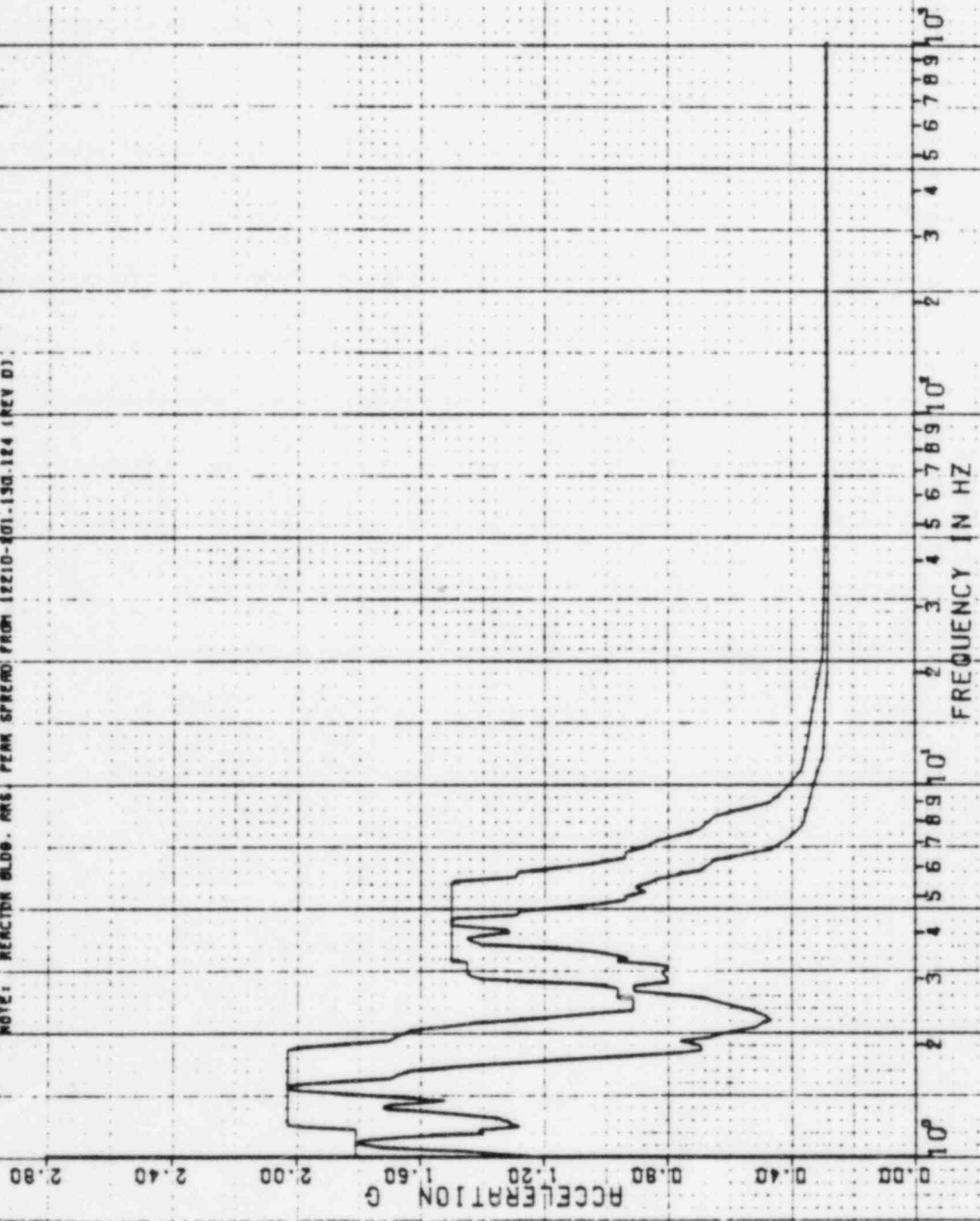
REF B1

8 FEB 1983

K. KAY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 08  
 GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC1-5DE-19D3 REV(1)  
 RRS OF ACC.-REACTOR BLDG. EL=193.00, MASS=12 5E16 MODEL-STEEL CONT  
 PEAK SPREAD -20% +25%  
 DISK CURVE SET NO.22  
 1.0 56E HOR DIRECTION  
 NOTE: REACTOR BLDG. RRS. PEAK SPREAD FROM 12210-501.190.124 (REV D)





621A

8 FEB 1965

X. KRY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 08  
GULF STATES UTILITIES-RBS UNIT 1-CALC 12210-NM1C7-6DE-1965-REV 11)  
RBS OF ACC.-REACTOR BLDG. .EL=193.00, MASS=12 6216 MODEL-STEEL CONT  
PEAK SPREAD -20Z +25Z  
56E

1.0 56E VER DIRECTION

NOTE: REACTOR BLDG. RBS PEAK SPREAD FROM 12210-601.130.124 (REV 01)

DISK CURVE SET NO.22

ACCELERATION G

FREQUENCY IN HZ

10<sup>0</sup>

0.50

1.00

1.50

2.00

2.50

3.00

3.50

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

5.6

6.7

7.8

8.9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

5.6

6.7

7.8

8.9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

5.6

6.7

7.8

8.9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

5.6

6.7

7.8

8.9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

5.6

6.7

7.8

8.9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

5.6

6.7

7.8

8.9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

5.6

6.7

7.8

8.9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

5.6

6.7

7.8

8.9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

5.6

6.7

7.8

8.9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

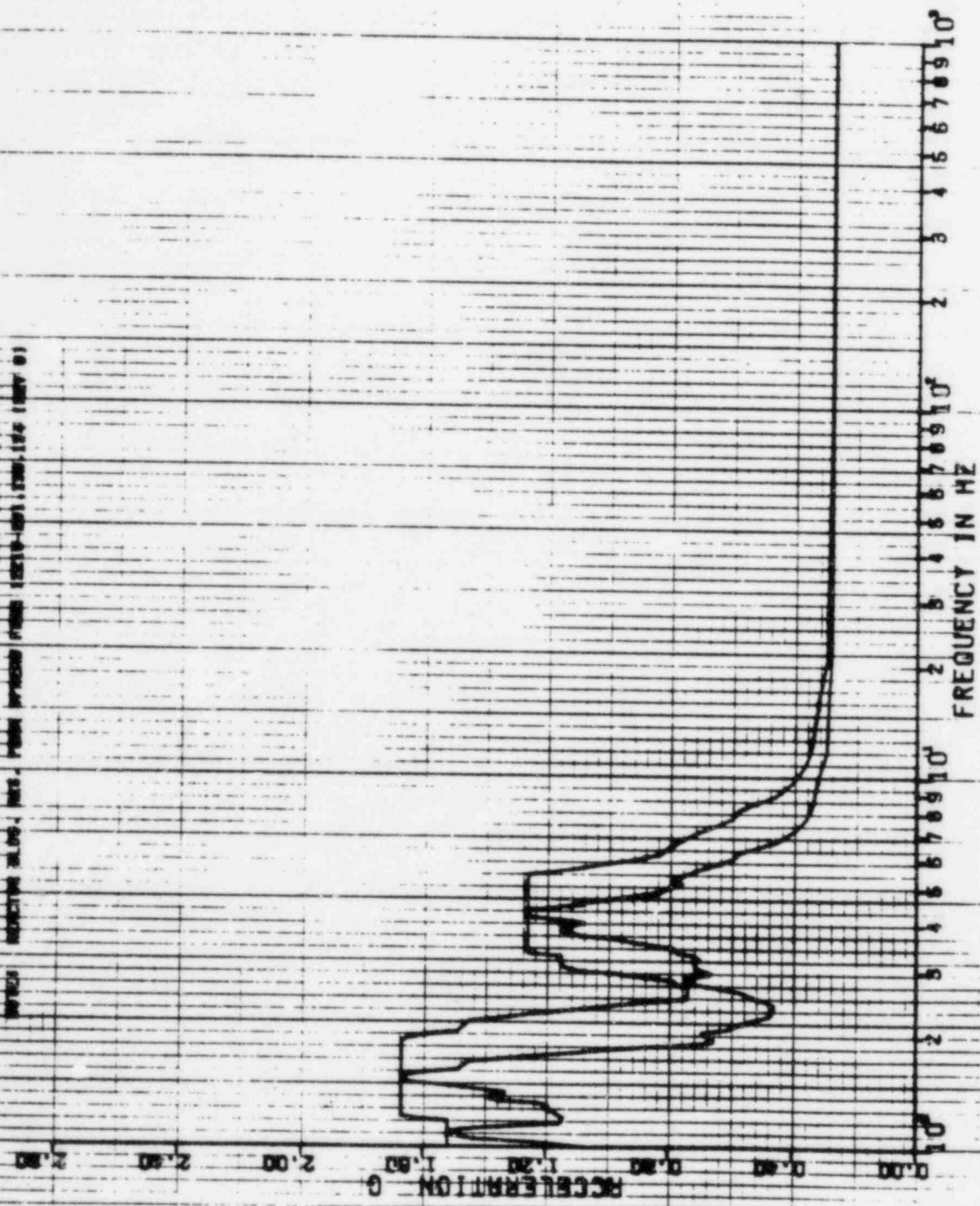
356 A

22 APR 1982

K-KAY

DAMPING VALUE = 0.030

SPECTRA VER 01 LEV 07  
 DULF STATE UTILITIES-RBB UNIT 1-CALC(2210-WH(C)-SWE-1903 REV(0)  
 NRS OF RCC-REACTOR BLDG-EL=139.00.MASS=12 SEIS MODEL-STEEL CONT.  
 PERK SPNRD -20% -25%  
 DIGN CURVE SET NO.22  
 1.0 SSE MOR DIRECTION  
 (MOR) (REACTOR BLDG) (NRS) (RBB) (SWE) (2210-WH(C)-SWE-1903 REV(0))



PSPECTRA VER 01 LEV 07

22 APR 1982

3.0A

DULF STATE UTILITIES-RBS UNIT 1-CALC12210-NM(C)-60E-1903 REV(0)  
RBS OF ACC.-REACTOR BLDG-EL=139.00,MASS=12 SE16 MODEL-STEEL CONT.  
PEAK SPREAD -20X.+25X. S&E

DISK CURVE SET NO.22

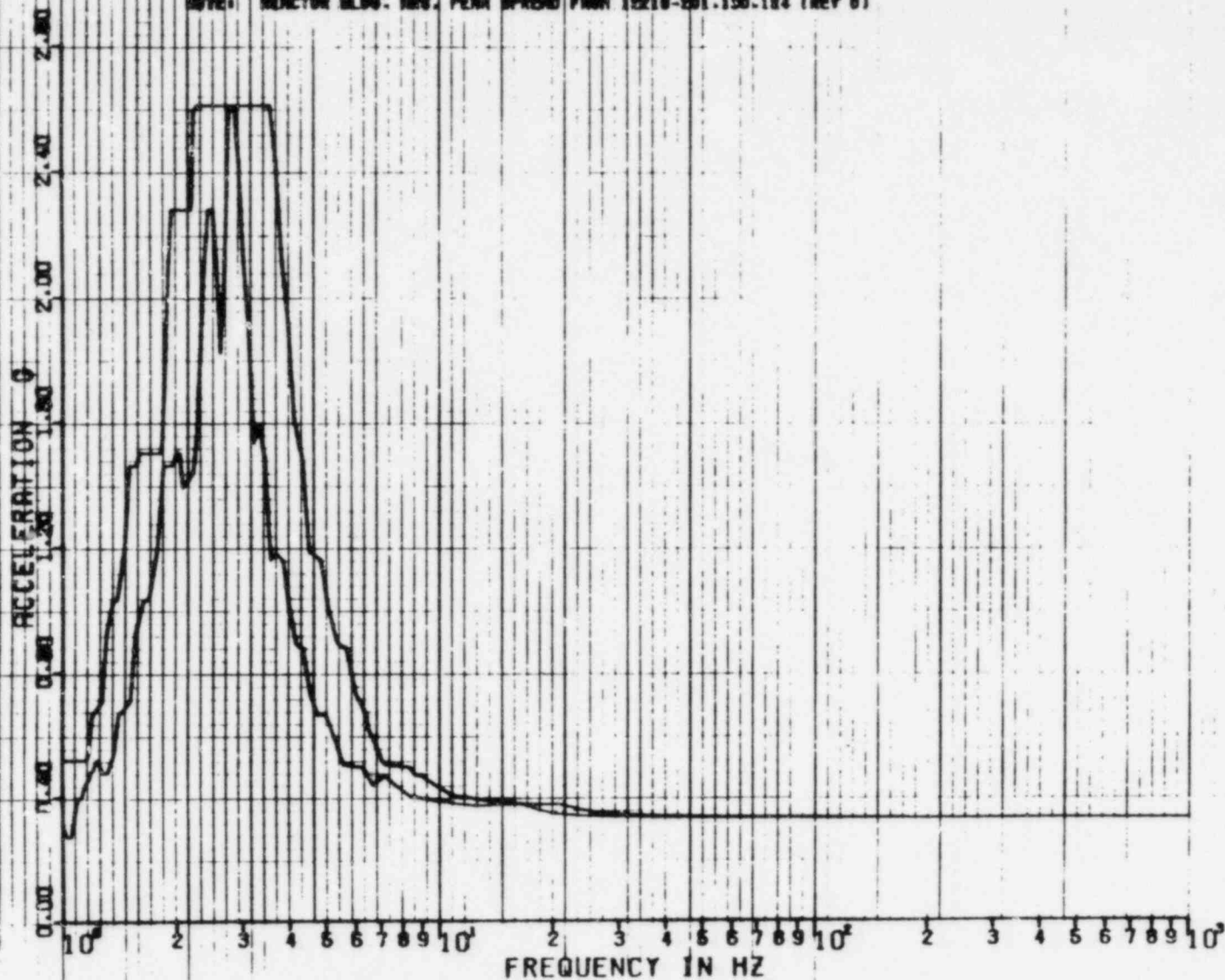
1.0 S&E

VER DIRECTION

K.KAY

DAMPING VALUE = 0.030

NOTE: REACTOR BLDG. RES. PEAK SPREAD FROM 10218-201.150-184 (REV 0)



REF 81



(A)

22 APR 1982

K-ABY

DAMPING VALUE = 0.040

SPECTRA VER 01 LEV 07

CULF STATE UT, UTIES-RBS UNY 1-PLT 1221 D1 M1 C3-SOL-1908 REV 10  
RR5 DF R'C.-REACTOR BLDG-EL-188-DO-4855-12-SE16 MODEL-STEEL CONT.  
PERK SPREAD -20K-25K SSE

DISK CURVE SET NO. 22 1-D 55E HDR DIRECTION

NOTE: REACTOR BLDG HAS PEAK SPEEDS FROM 1220-200 (30-24 REV b)

0.10X

0.20X

0.40X

0.80X

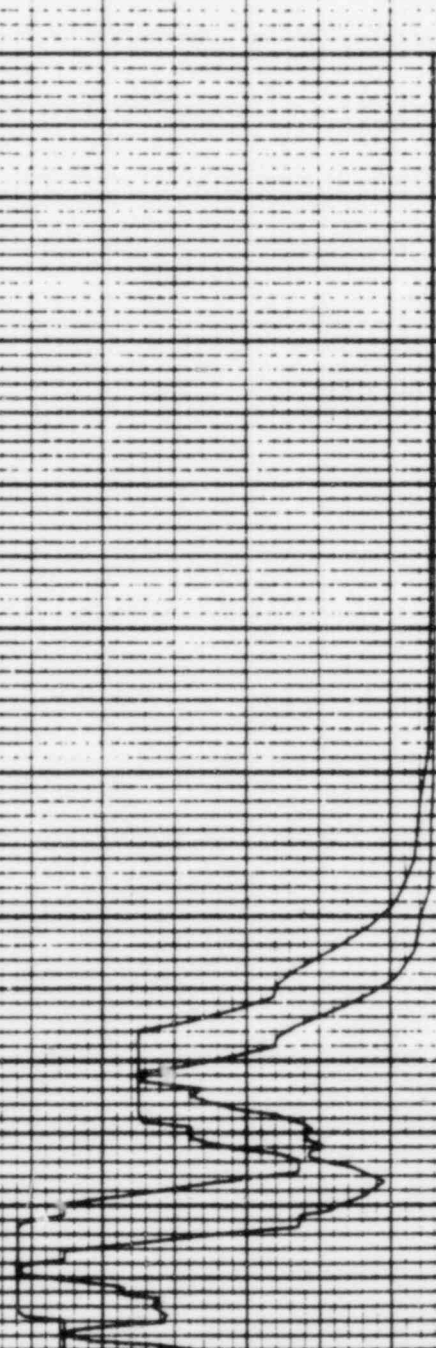
1.60X

3.20X

6.40X

12.80X

REGENERATION G



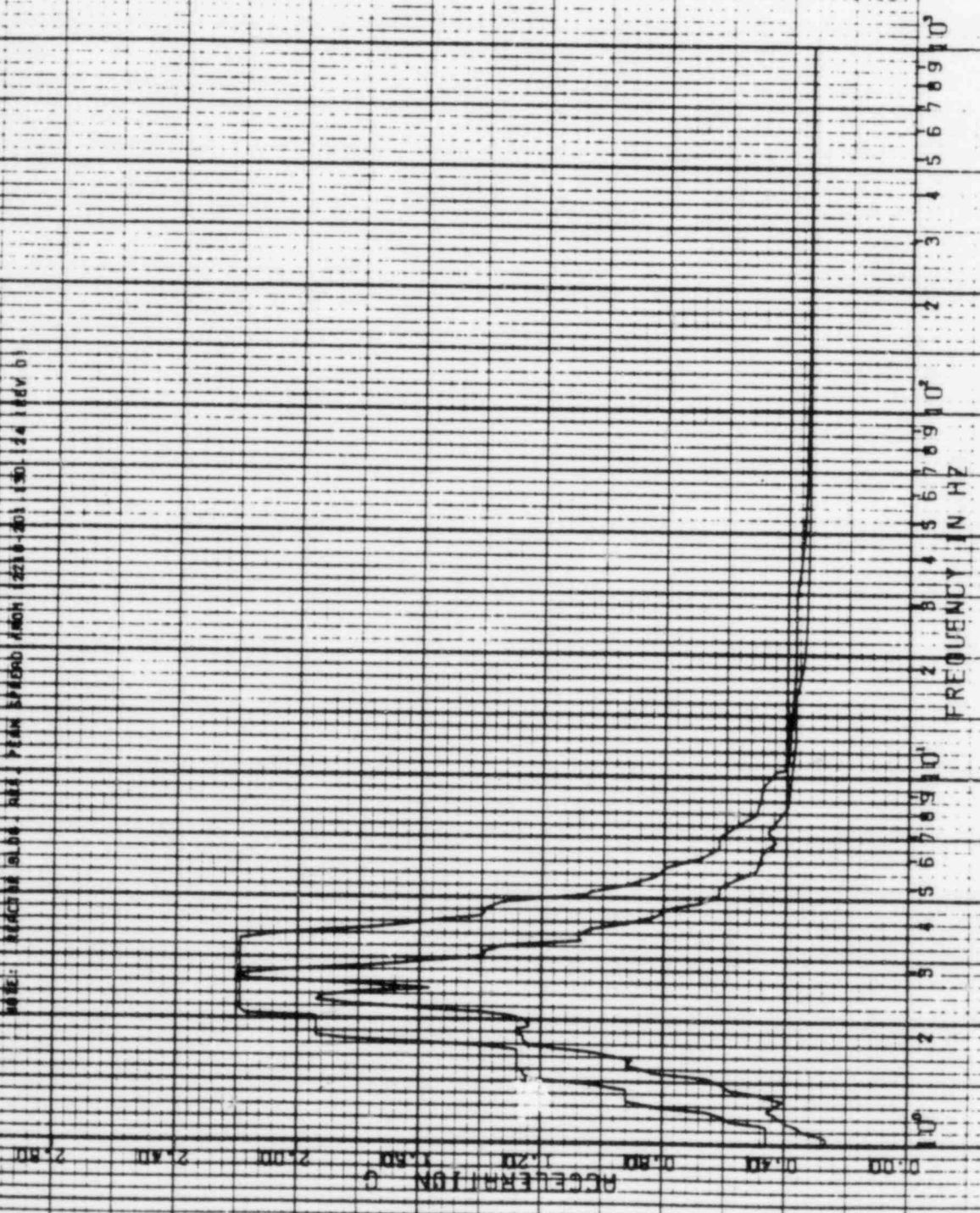
FREQUENCY IN HZ



3A

22 APR 1982  
K-KAY  
DAMPING VALUE = 0.040

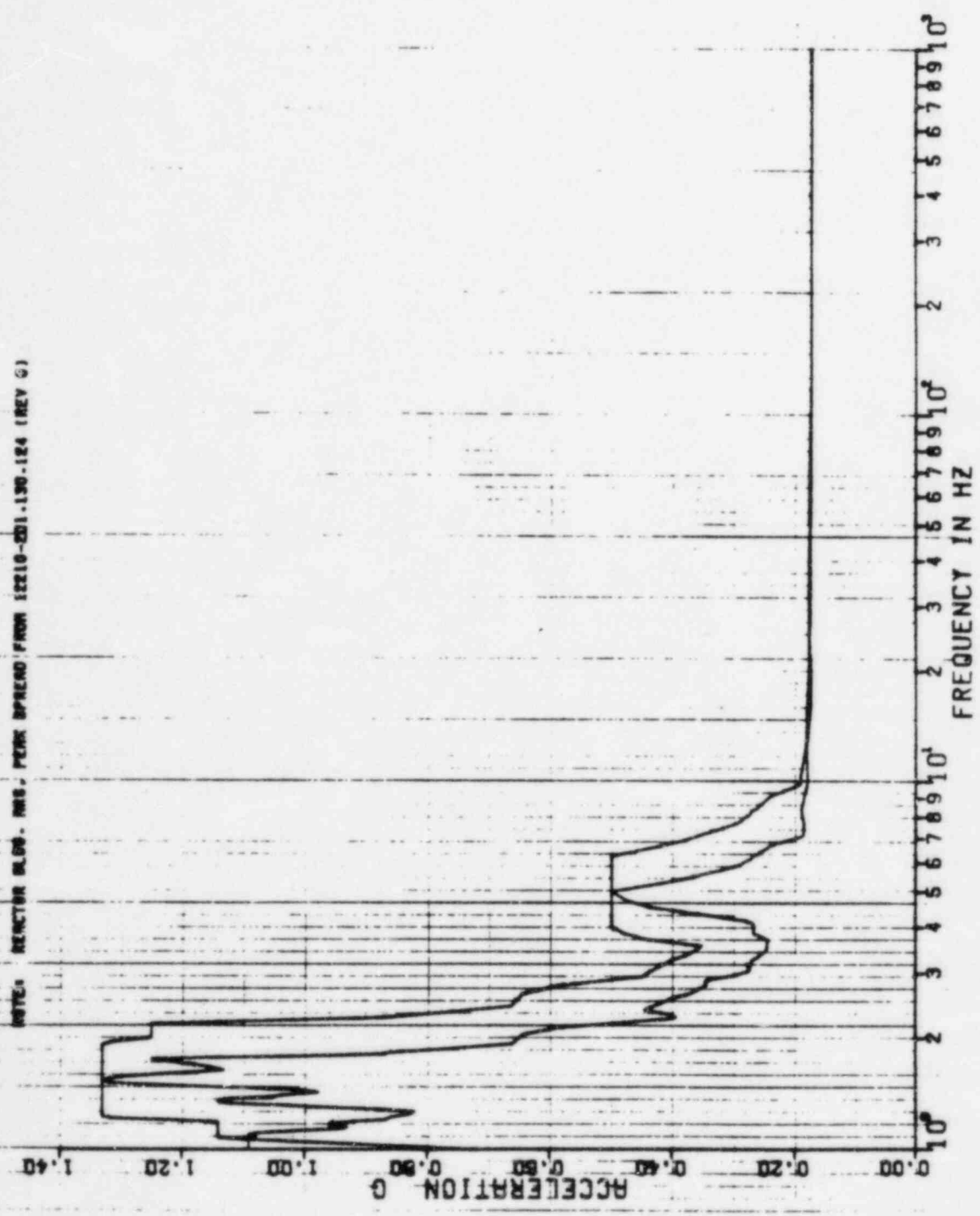
PSPECTRA VER 01 LEV 07  
CULF STAVE UTILITIES-RBS UNIT 1-CALC 12210-ND1-C1-SOL-1909 REV 01  
R65 OF ACC-REACTOR BLOC ELE-138-00, RASSEL 12 SETS MODEL-STEEL CONT.  
PEAK SPREAD -20V, 1.25V  
56E  
DISK CURVE SET NO. 22  
1-D 56E VER DIRECTION  
NOTE: REACTOR BLOC, RBS, PEAK SPREAD FROM (2210-50) (30, 14 18V 0)



22 APR 1982

K. KAY  
DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 07  
 GULF STATE UTILITIES-R86 UNIT 1-CALC(12210-1111C1)-S0E-1909 REV(0)  
 RRS OF ACC.-REACTOR BLDG. EL.=162.00. MASS=13 SEIS MODEL-STEEL CONT.  
 PEAK SPREAD -20%+.25%  
 DISK CURVE SET NO.23  
 0.5 SSE MOR DIRECTION  
 NOTE: REACTOR BLDG. MASS. PEAK SPREAD FROM 12210-001.130-124 (REV G)



22 APR 1982

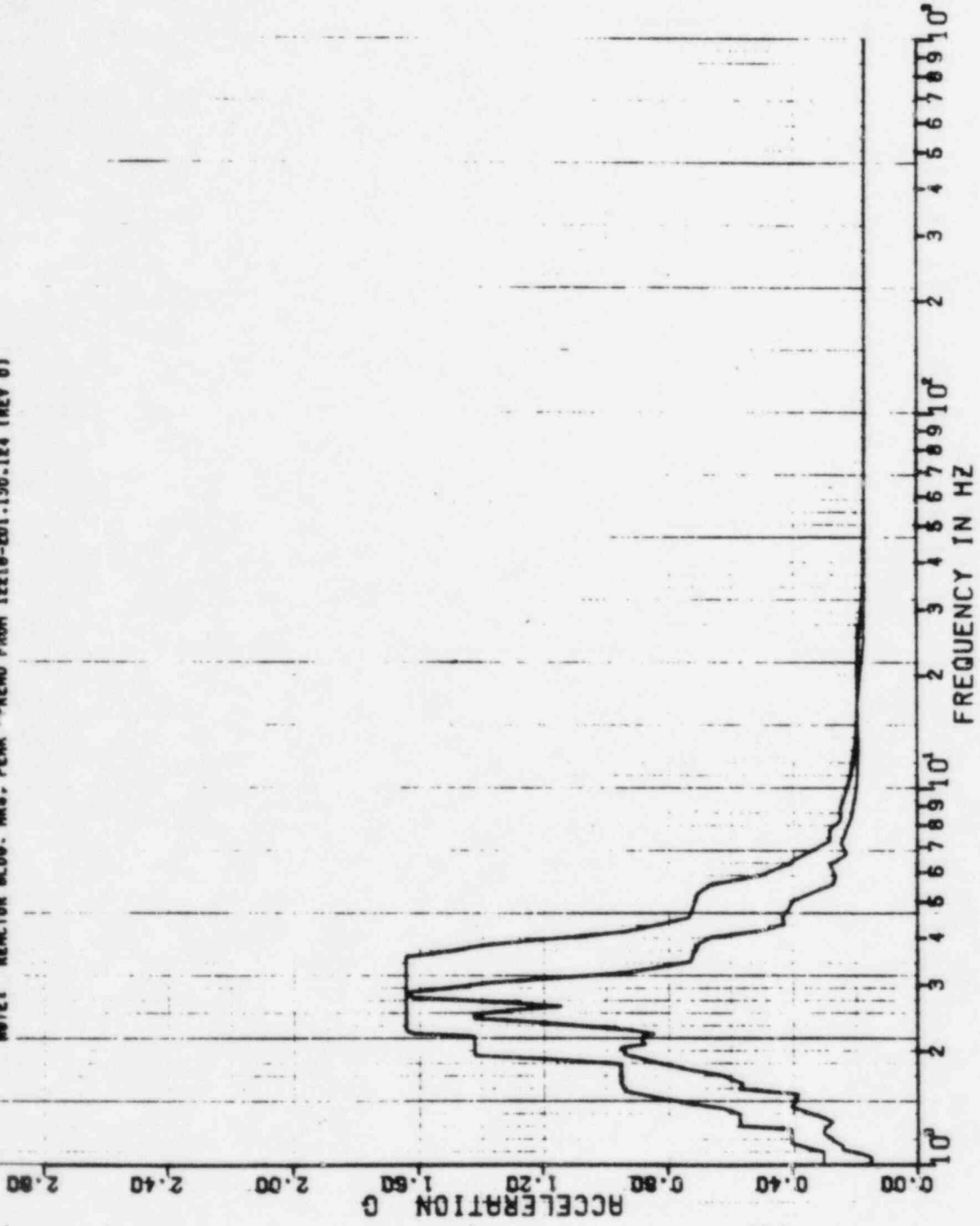
PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-R06 UNIT 1-CALC12210-MM(C)-S0E-1903 REV(0)  
RRS OF ACC.--REACTOR BLDG.-EL=162.00.MASS=13 SE16 MODEL-STEEL CONT.  
PEAK SPREAD -20%.+25%

DISK CURVE SET NO.23 0.5 SSE VER DIRECTION

M.KAY  
DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. MRS. PEAK FROM 12210-CD1.130.124 (REV 0)



6 FEB 1963

K. KRY

DAMPING VALUE = 0.020

UNIT 1-CALC12210-NM(C)-6DE-1903 REV11  
EL=162.00, MASS=19 6E16 MODEL-STEEL CONT  
56E

1.0 56E HOR DIRECTION

NOTE: REACTOR BLDG. AHS PEAK SPREAD FROM 12210-201.130-124 (REV 0)

PSPECTRA VER D1 LEY 08

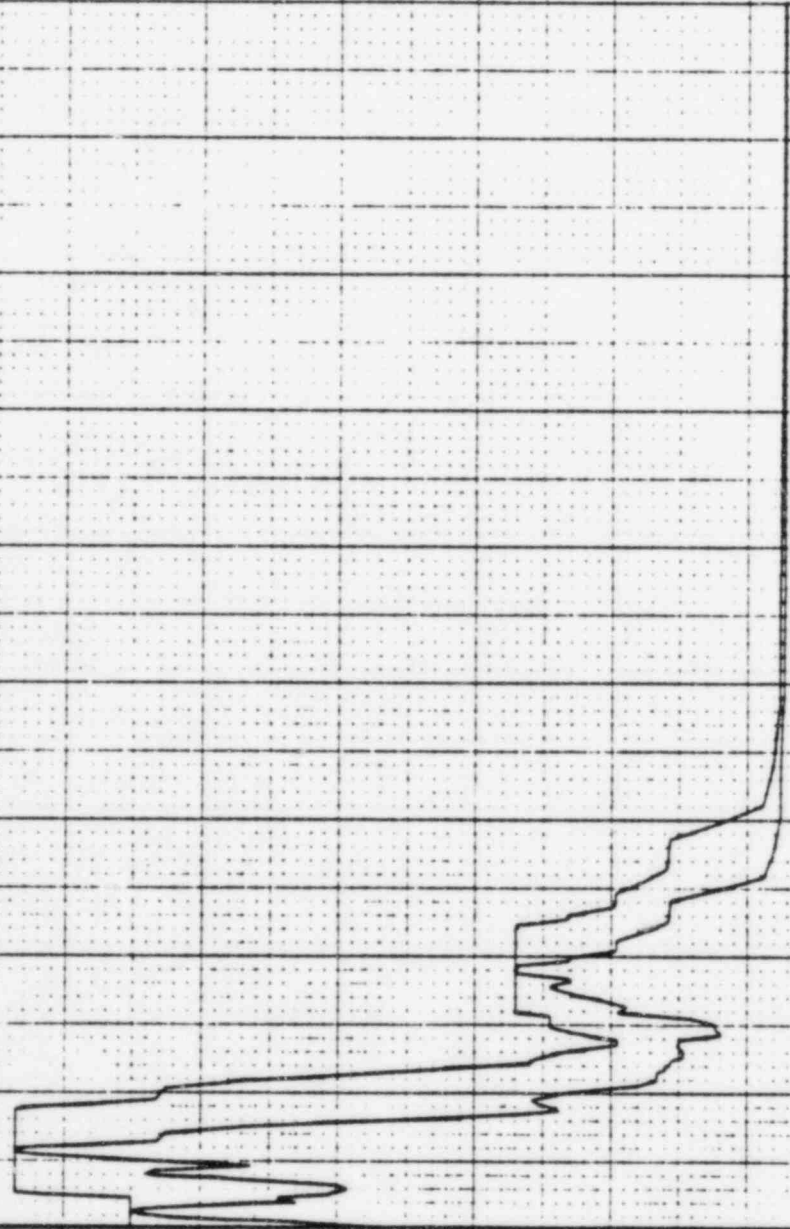
GULF STATES UTILITIES-RBS  
ARS OF ACC.-REACTOR BLDG.  
PEAK SPREAD -20% +25Z

DISK CURVE SET NO.24

REACTOR BLDG. AHS

ACCELERATION G

FREQUENCY IN HZ





6239

8 FEB 1983

K. KRY

DAMPING VALUE = 0.020

UNIT 1-CALC12210-NM(C)-SDE-1993 REV111  
EL=152.00, MASS=13 6E16 MODEL-STEEL CONT  
55E

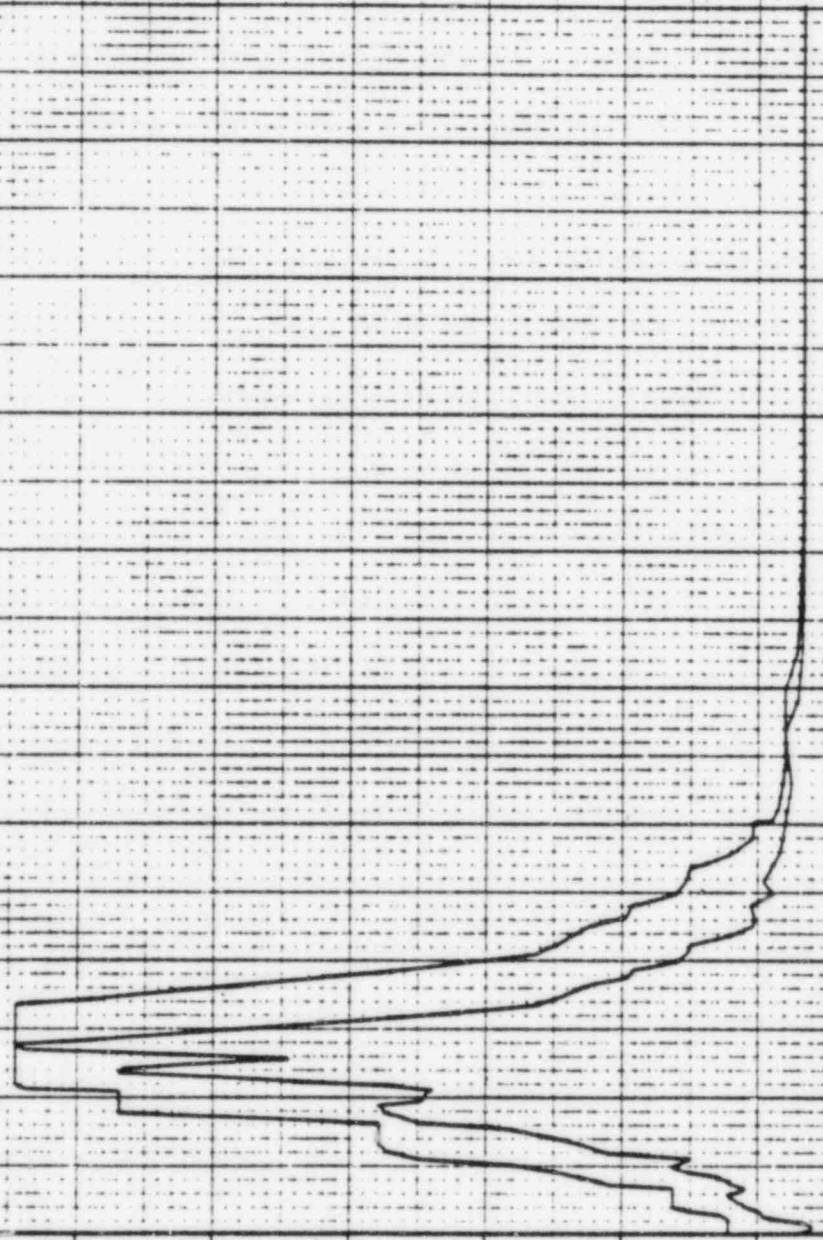
1.0 55E VER DIRECTION

NOTE: REACTOR BLDG. NRB, PEAK SPREAD FROM 12210-101.130.124 (REV 01)

PSPECTRA VER 01 LEV 08  
GULF STATES UTILITIES-RBS  
RRS OF ACC.-REACTOR BLDG.  
PEAK SPREAD -20% +25%  
DISK CURVE SET NO.24

ACCELERATION G

FREQUENCY IN HZ



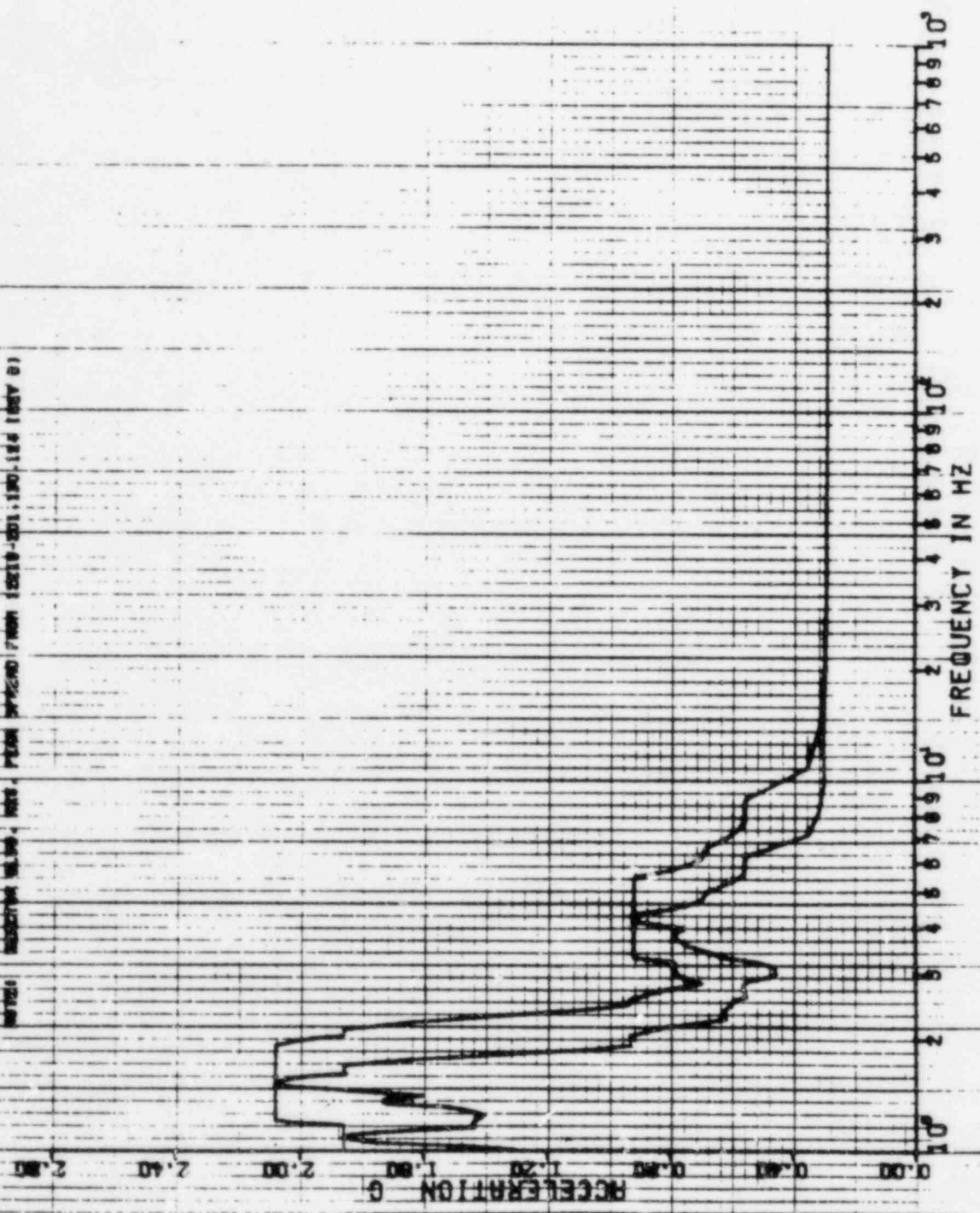
3.78 A

22 APR 1982

K. KAY

DAMPING VALUE = 0.030

SPECTRA VER 01 LEV 07  
 DULF STATE UTILITIES-888 UNIT 1-CALC(12210-MH(C)-25E-1903 REV(0)  
 RRS OF CEC--REACTOR BLDG. EL=182.00. MASS=13 SE% MODEL-STEEL CONT.  
 PEAK SPREAD -20% → 25%  
 DISK CURVE SET NO. 24  
 1.0 65E MOR DIRECTION  
 85E  
 1.0 65E MOR DIRECTION  
 85E  
 1.0 65E MOR DIRECTION  
 85E



3.7 A

22 APR 1982

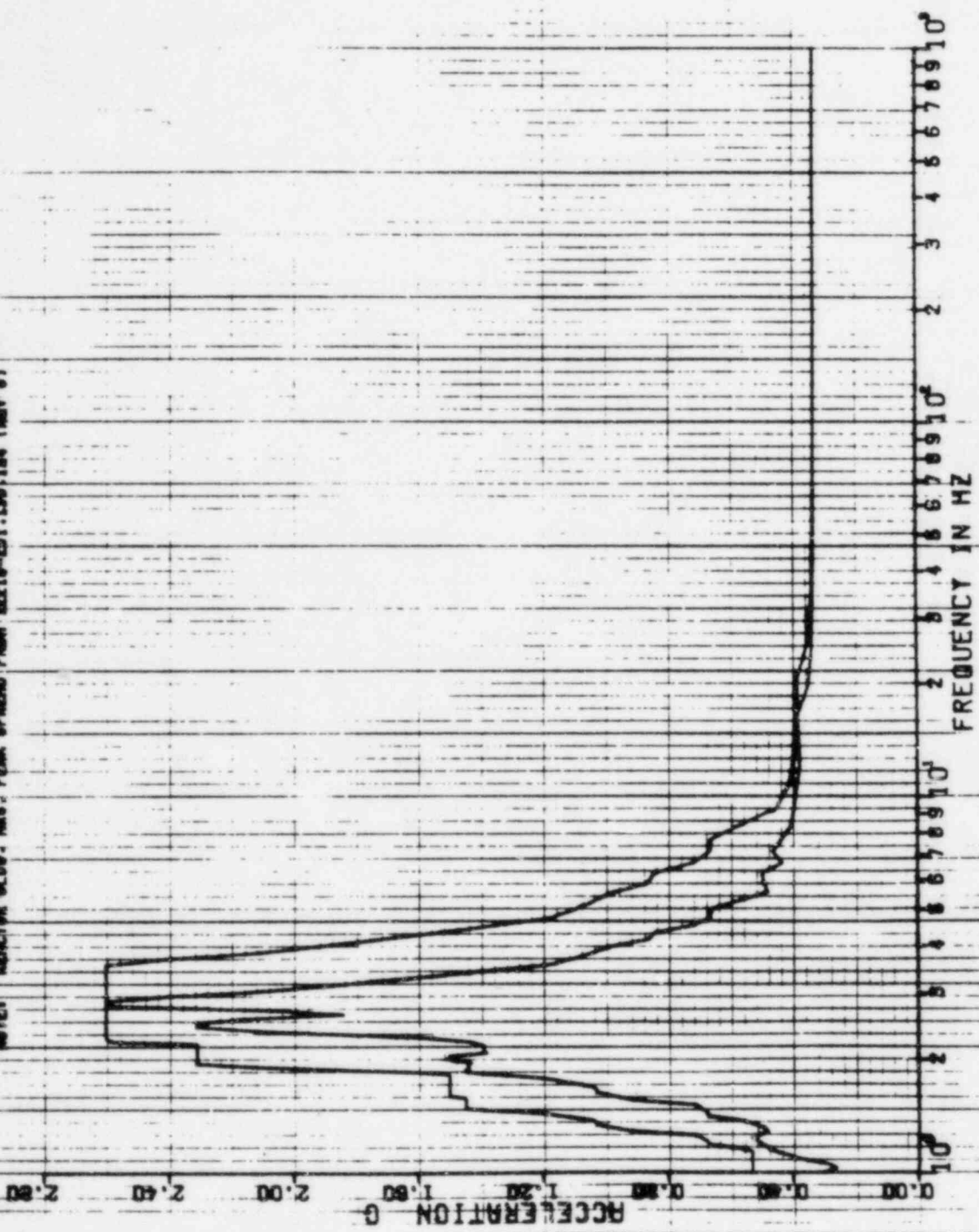
K. KAY

DAMPING VALUE = 0.030

PSPECTRA VER 01 LEV 07  
 DULF STATE UTILITIES-RBB UNIT 1-CALC(12210-WAIC)-802-1903 REV(0)  
 RKB OF ACC.-REACTOR BLDG.-EL=162.00.MASS=13 SEIS MODEL-STEEL CONT.  
 PEAK SPREAD -20%+25%  
 DISK CURVE SET NO.24

1.0 5SE VER DIRECTION

NOTE: REACTOR BLDG. HAS PEAK SPREAD FROM 00210-001.1370.184 (REV 9)





7A

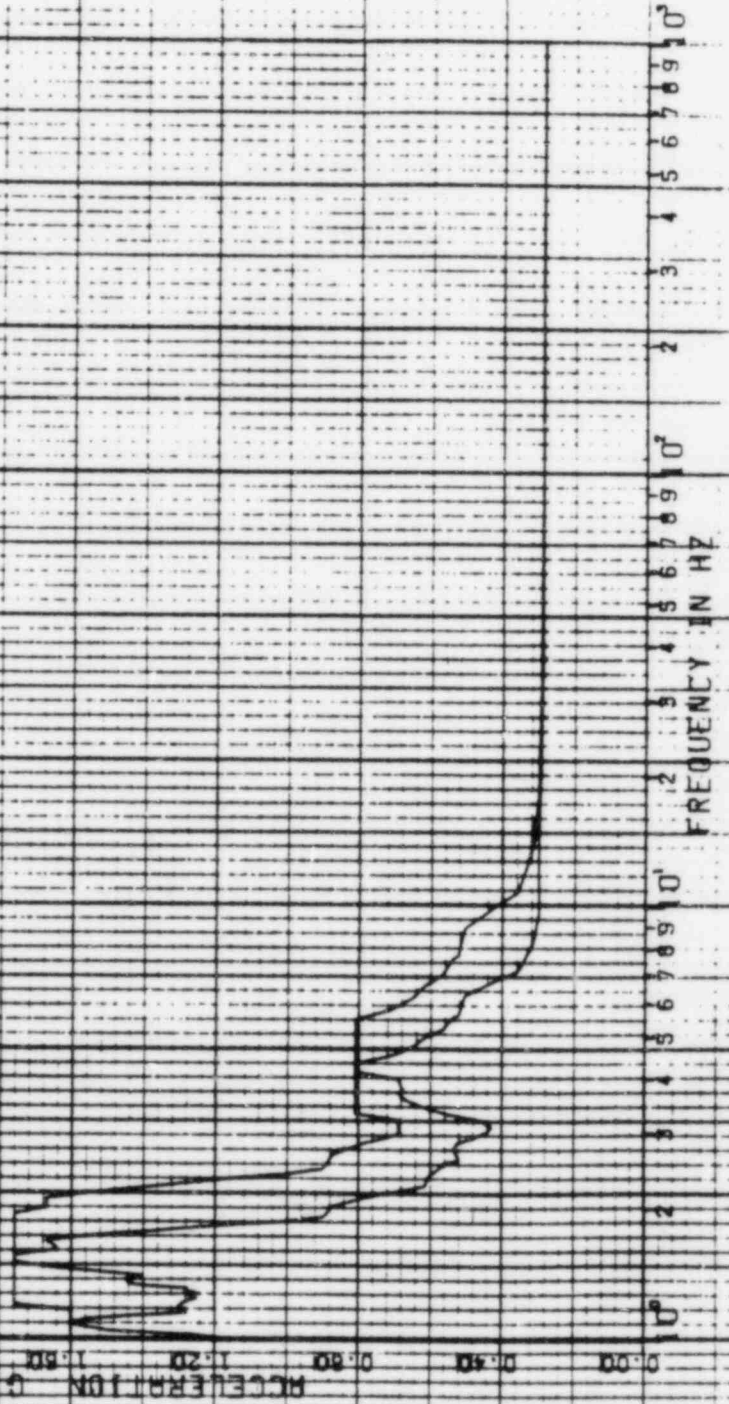
22 APR 1982

K-KRY

DAMPING VALUE = 0.040

PSPECTRA VER 01 LEY 07  
 GULF STATE UTILITIES REACTOR BLDG. UNIT 1 - CMCC (2210-00-001) - 501-1903 REV 01  
 REACTOR BLDG. EL 162.00, MASS = 3 SE S MODEL - STEEL CONT.  
 PEAK SPREAD = 20% 1.25  
 SSE

DISK CURVE SET NO. 24  
 1.0 SSE HOR DIRECTION  
 REACTOR BLDG. NES. PEAK SPREAD FROM (2210-001) (30) (4) REV 01





3-5A

22 APR 1982

K. KRY

DAMPING VALUE = 0.040

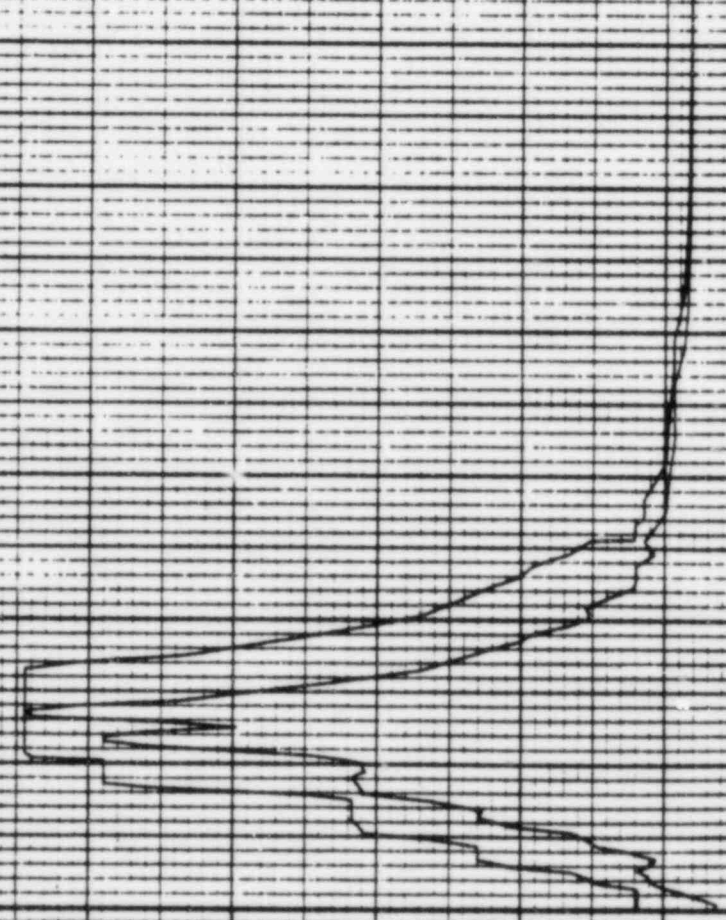
PBPFCYR VER 01 LEV 07  
 GULF STATE UTILITIES RBS UNIT - CALL 2210-4411-506-1903 REV 101  
 RPS OF REACTOR BLOC. FL-162-00. MASS-19 SE S ROBEEL STEEL CONT.  
 PEAK SPREAD 1.07 1.957

DISK CURVE SET NO. 24  
 1.01 55E VER DIRECTION

NAME: REACTOR BLOC. RBS. PEAK SPREAD FROM 12210-201 USD. 14. 1REV. 0

ACCELERATION G  
 0.00 0.50 1.00 1.50 2.00 2.50

FREQUENCY IN HZ  
 10<sup>0</sup> 2 3 4 5 6 7 8 9 10<sup>1</sup>



PSPECTRA VER 01 LEV 07

22 APR 1982

DULF STATE UTILITIES-RBS UNIT 1-CALC(2210-NH.C)-6QE-1909 REV(0)  
RMS OF ACC.-REACTOR BLDG. EL=185.00.MASS=14 SEIS MODEL-STEEL CONT.  
PEAK SPREAD -20%.+25%

K.KAY

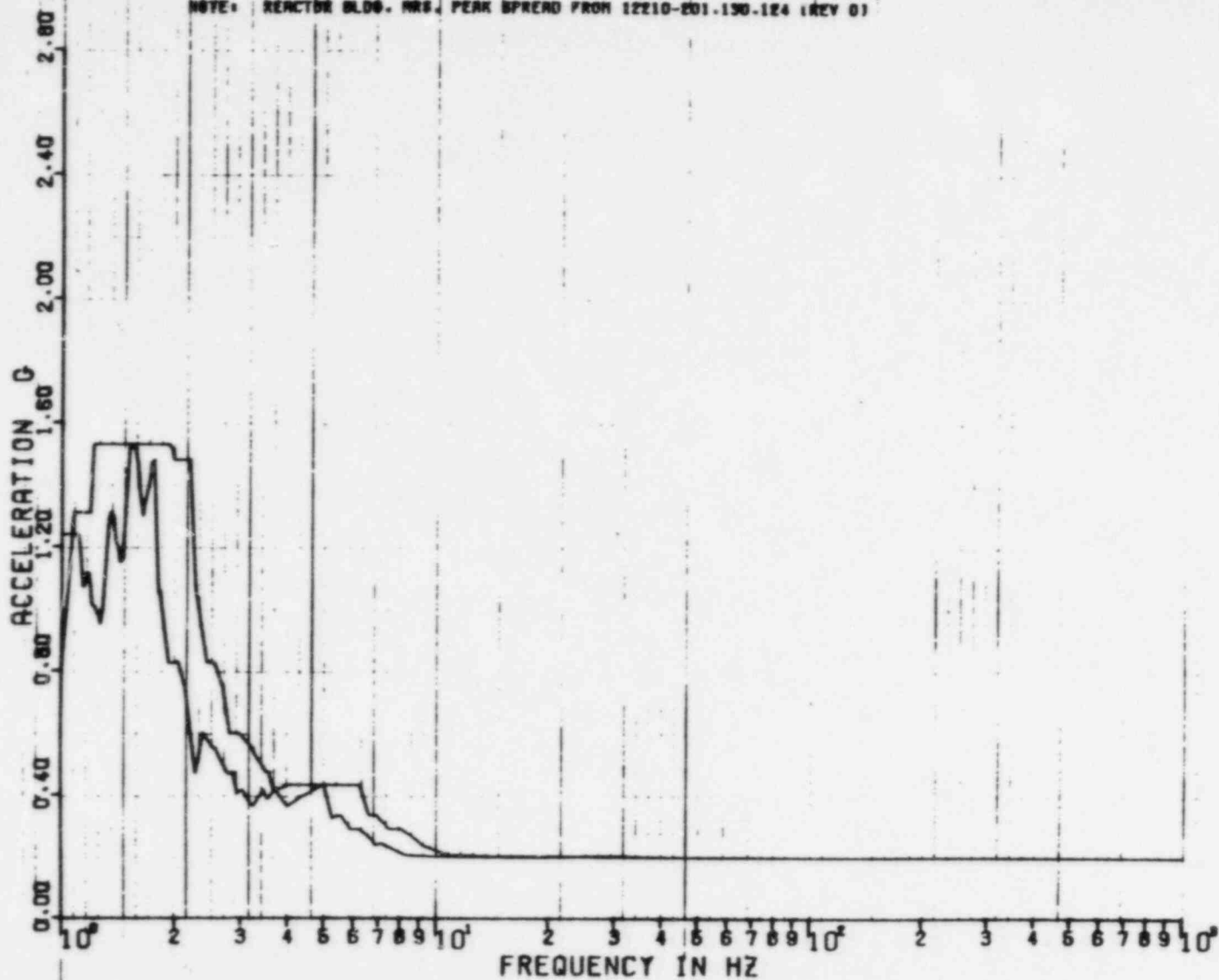
DISK CURVE SET NO.25

0.5 66E

HOR DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RMS, PEAK SPREAD FROM 12210-201.190-124 (REV 0)



PSPECTRA VER 01 LEV 07

22 APR 1982

DULF STATE UTILITIES-RB6 UNIT 1-CALC12210-NM(C)-6QE-1903 REV(0)  
RRS OF ACC.-REACTOR BLDG-EL-185.00,MASS=14 SEIS MODEL-STEEL CONT.  
PEAK SPREAD -20%,+25%

K.KAY

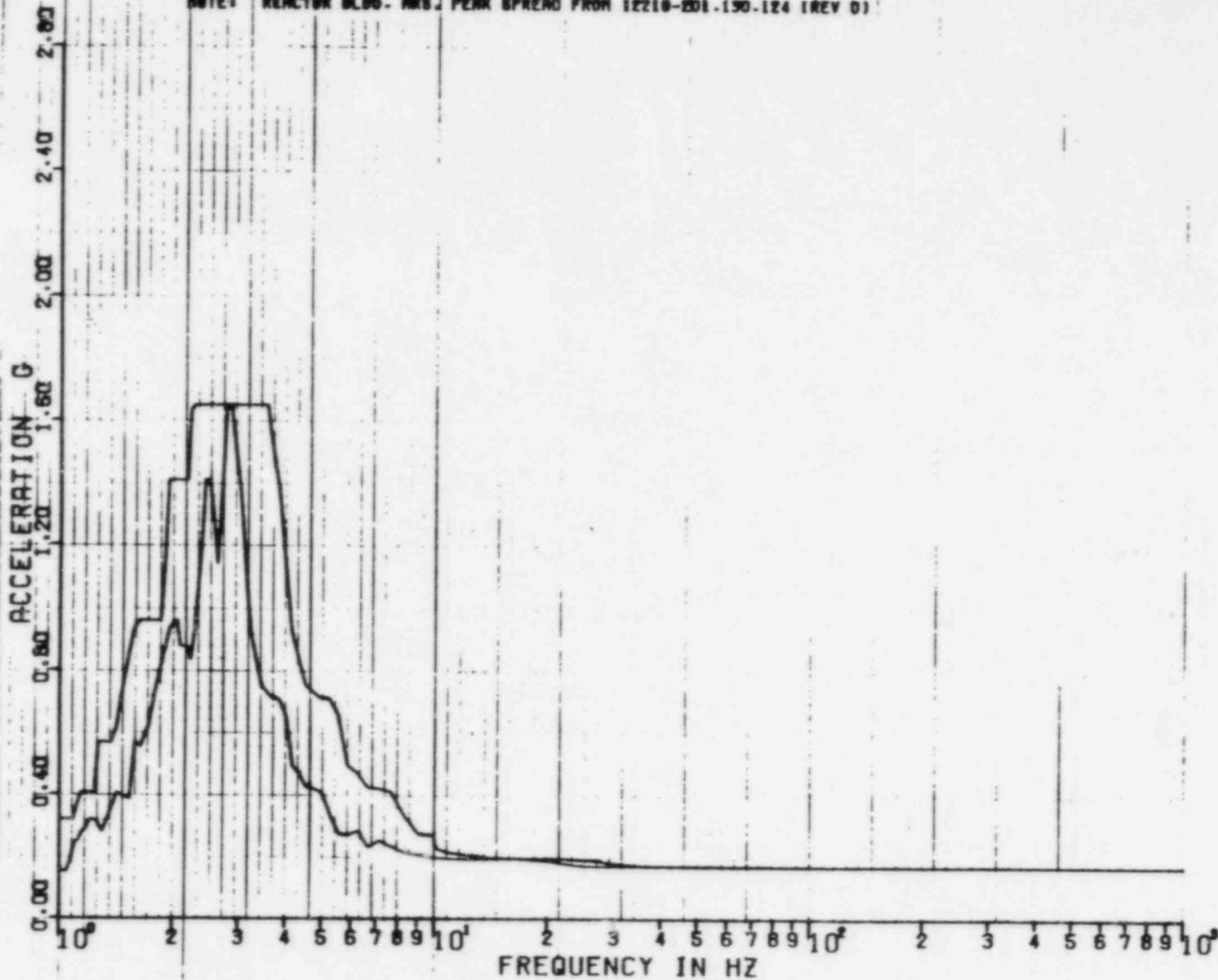
DISK CURVE SET NO.25

0.6 SSE

VER DIRECTION

DAMPING VALUE = 0.020

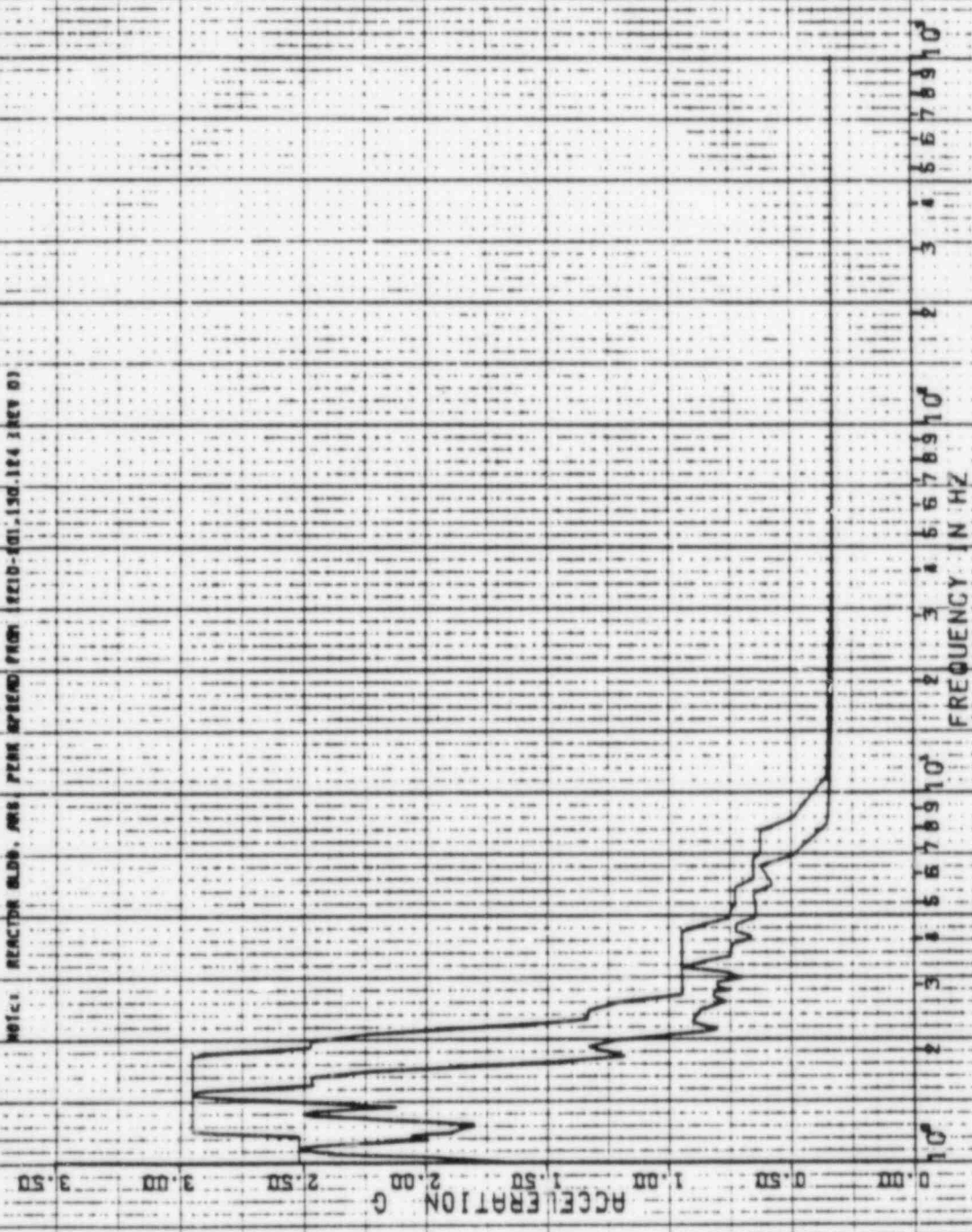
NOTE: REACTOR BLDG. RRS. PEAK SPREAD FROM 12210-201.150-124 (REV 0)



REF 83

6 Feb 1963  
K. KRY  
DRAWING VALUE = 0.020

PSPECTRA VER 03 LEV 08  
DULF STATES UTILITIES-RGS  
MRS OF ACC.-REACTOR BLDG.  
PEAK SPREAD -20Z +25Z  
DISK CURVE SET NO.26  
UNIT 1-CALC1210-NR1CJ-5DE-19D3 REV11  
EL-185.00, MR65-14 5Z16 MODEL-STEEL CONT  
56E  
HOR DIRECTION  
1.0 56E  
NOTES REACTOR BLDG, MRS PEAK SPREAD FROM 5Z10-501.150.184 1REV 01



10<sup>0</sup>  
2  
3  
4  
5  
6  
7  
8  
9  
10  
10<sup>1</sup>  
2  
3  
4  
5  
6  
7  
8  
9  
10  
10<sup>2</sup>



2234

8 FEB 1965

K. KRY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 08  
 GULF STATES UTILITIES-PDS UNIT 1-CALC12210-MMIC1-6DE-1903 REV111  
 MRS OF ACC.-REACTOR BLDG., EL=185.00, MASS=14 5E16 MODEL-STEEL CONT  
 PEAK SPREAD -20% +25%  
 DISK CURVE SET NO.26

3.0 5SE VER DIRECTION

NOTE: REACTOR BLDG. HAS PEAK SPREAD FROM 12210-501.130-184 (REV 01)

ACCELERATION - G

FREQUENCY IN HZ



10<sup>0</sup>

3

5

7

8

9

10<sup>1</sup>

10<sup>2</sup>

PSPECTRA VER 01 LEV 07

22 APR 1982

360 A

DULF STATE UTILITIES-RBS UNIT 1-CALC12218-NR(C)-SSE-1903 REV(0)  
CRS OF ACC.-REACTOR BLDG-EL=185.00, MASS=14 SEIS MODEL-STEEL CONT.  
PEAK SPREAD -20% ±25% SSE

DISK CURVE SET NO.25

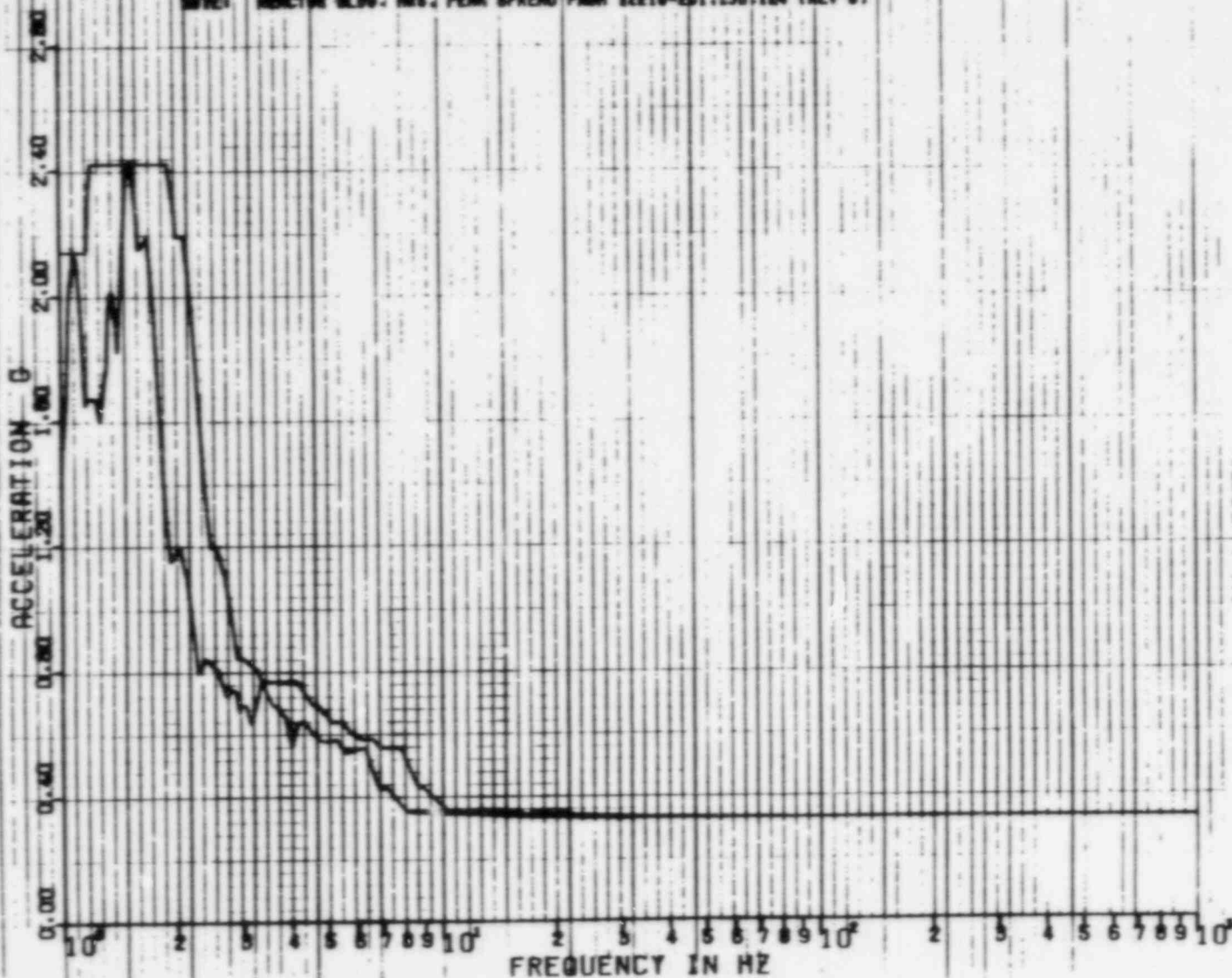
1.0 SSE

HOR DIRECTION

K.KAY

DAMPING VALUE = 0.030

NOTE: MODCTN 0130. NR6. PEAK SPREAD FROM 02218-031.130.184 (REV 01)



REV 03

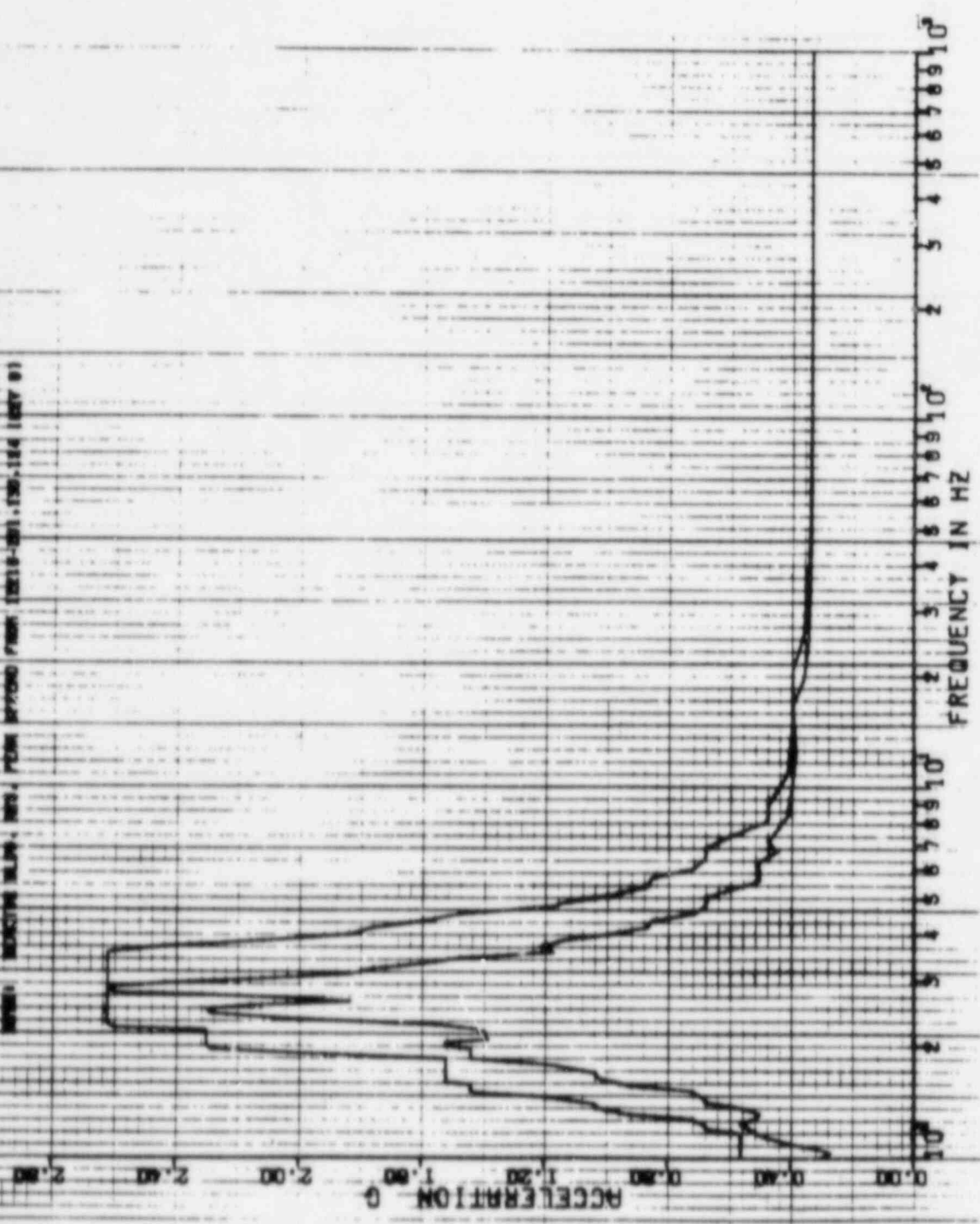
3614

22 APR 1962

K. KAY

DAMPING VALUE = .050

SPECTRUM VER 01 LEV 07  
 DULF STATE UTILITIES-RSS UNIT 1-CALC 12210-MN(C)-SSE-1969 REV(01)  
 RIB OF REACTOR BLDG. EL 195.00. MASS=14.6E16 MODEL-STEEL CONT.  
 PEAK SPECTRUM - 2000-125X  
 DISK CURVE NET NO. 25  
 I. D. SSE VER DIRECTION  
 MASS: MONITORING MOUNT. NET. PEAK SPECTRUM FROM 12210-001.1700.124 (REV 81)





7-1A

22 APR 1981

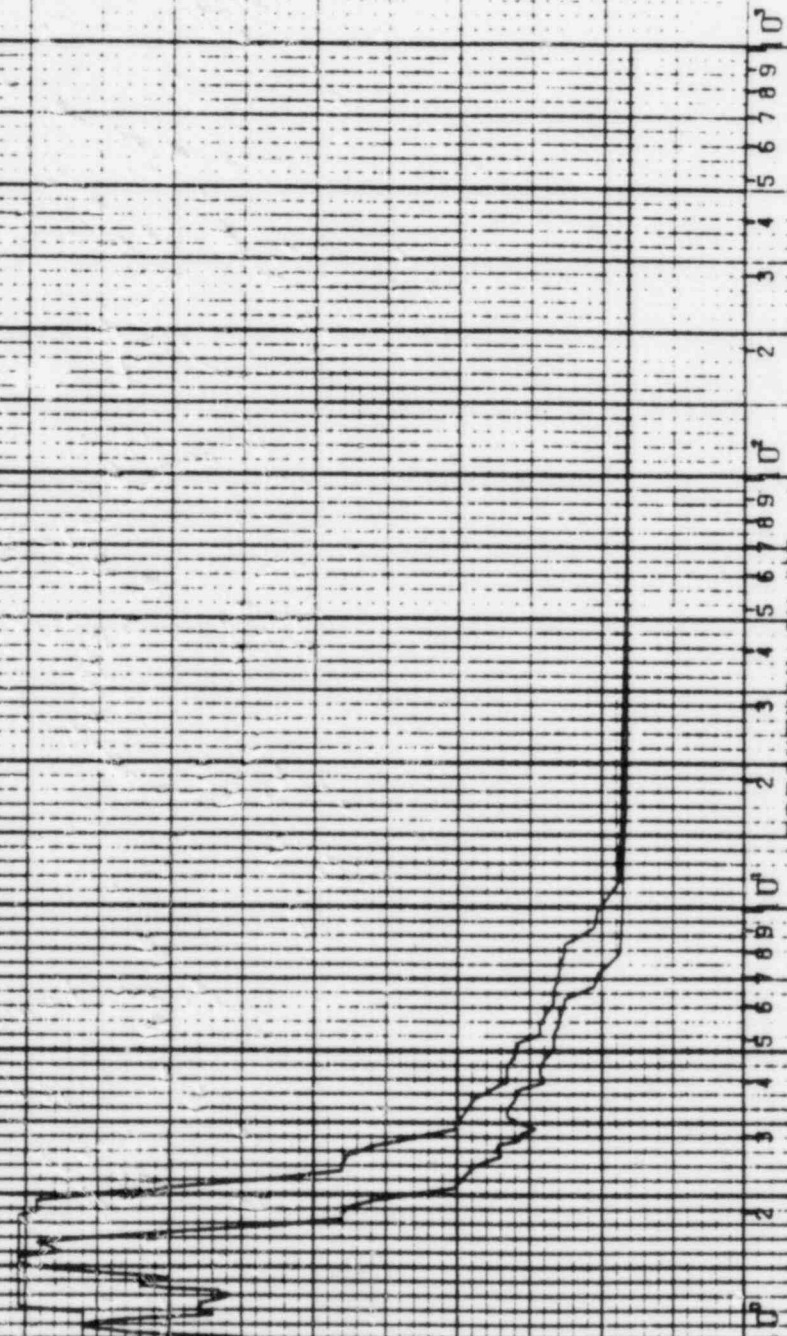
K. KAY

DAMPING VALUE = 0.010

P SPECTRA VER 01 LEV 07  
 GULF STATE UTIL REC-RBS UNIT - CMLC122-D-WNTC1-SOE-1903 REV101  
 RES OF ACC-REACTOR BLOC. EL=103.00 MASS=4 SE S ROPEL-STEEL CONT  
 PEAK SPREAD 1907 125  
 DISK CURVE SET NO.26  
 HORIZ DIRECTION  
 .055E  
 NOTE: REACTOR BLOC. RES. PEAK SPREAD FWHM 421d-2D1 115d 124 (REV. 6)

ACCELERATION

FREQUENCY IN HZ





707A

22 APR 1982

E. KAY

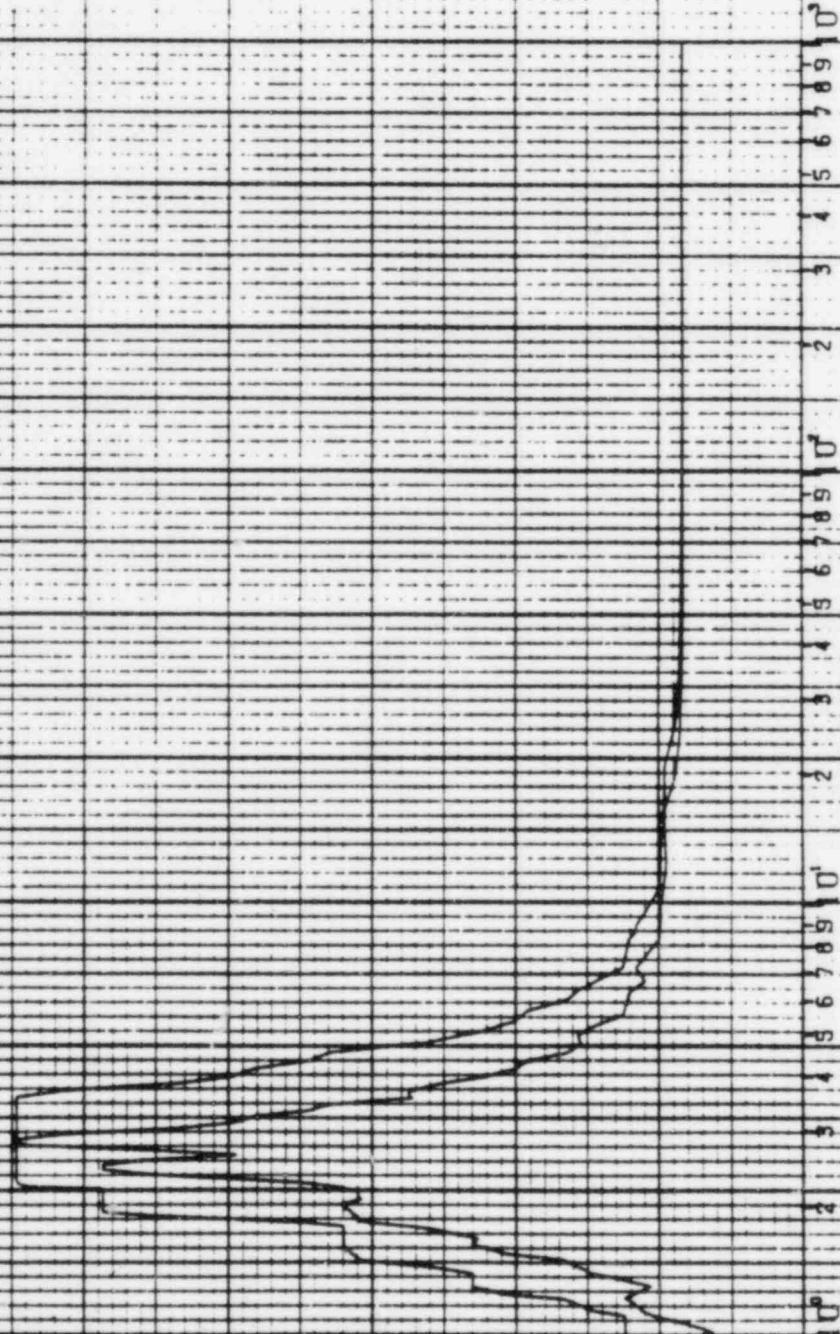
DAMPING VALUE = 0.010

SPECTRA VER 0 LEV 07  
 GULF STATE UTIL. RES. BBS W  
 BBS OF ACC. REACTOR BLOC  
 PEAK SPREAD 1.207 1.257  
 DISK CURVE SET NO. 26  
 .0156E VER. DIRECTION  
 CALL 2210-4411-500-1903 REV 01  
 .05500 MASS = 4 SE S MODEL-STEEL CONT  
 55E

NOTE: BEARING BL. 90 - PMS - PEAK SPHERG FROM R2210-201 USD 124 INEV 01

ACCELERATION G

FREQUENCY IN HZ



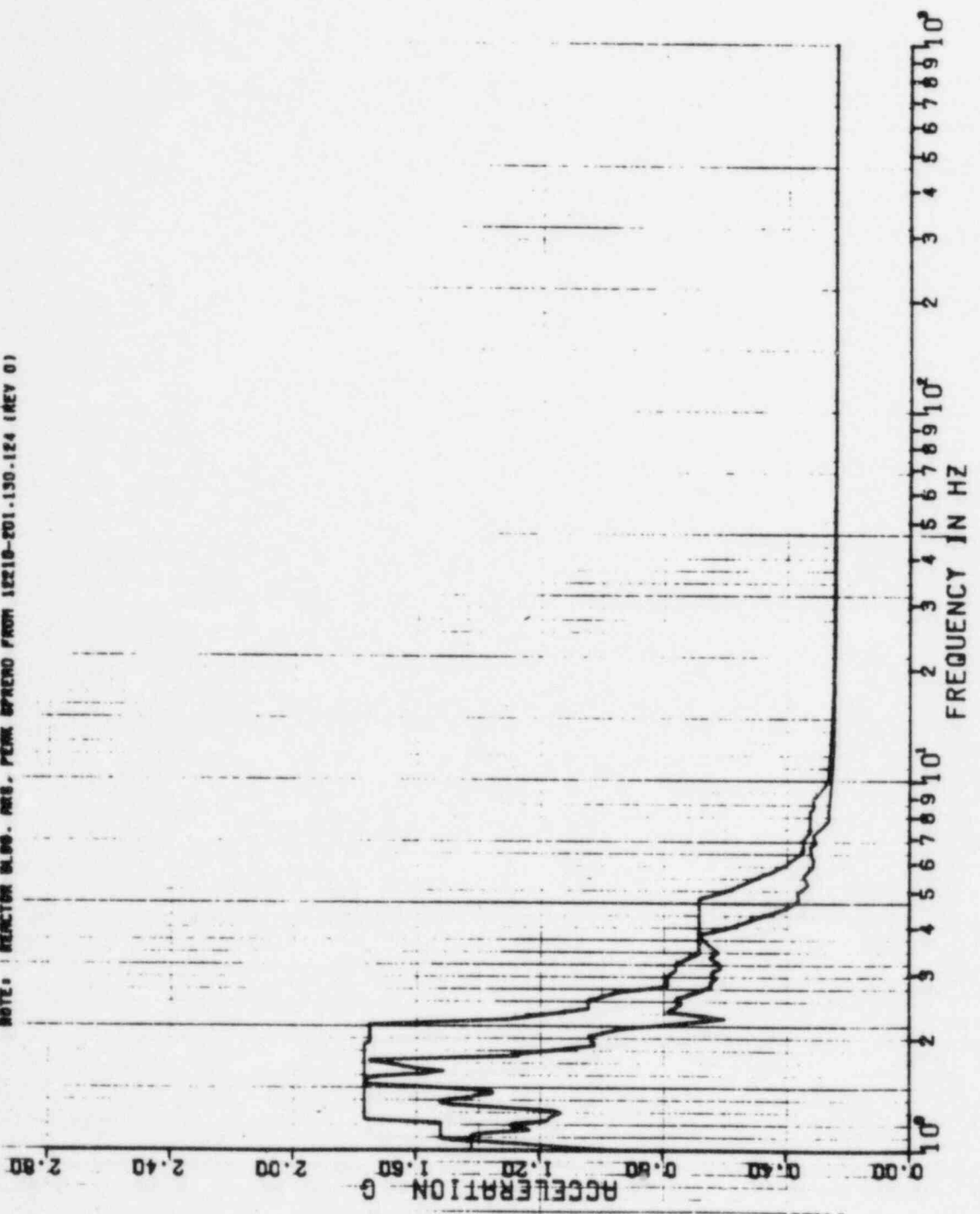
22 APR 1982

K. KAY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 07  
 GULF STATE UTILITIES-RSS UNIT 1-CALC12210-MM(C)-50E-1903 REV(10)  
 RRS OF ACC.-REACTOR 01.00.EL-212.00, MASS=15 SEIS MODEL-STEEL CONT.  
 PEAK SPREAD -20% +25%  
 DISK CURVE SET NO.27  
 0.5 SSE HOR DIRECTION

NOTE: REACTOR 01.00. RRS, PEAK SPREAD FROM 12210-201.130-124 (REV 0)



22 APR 1982

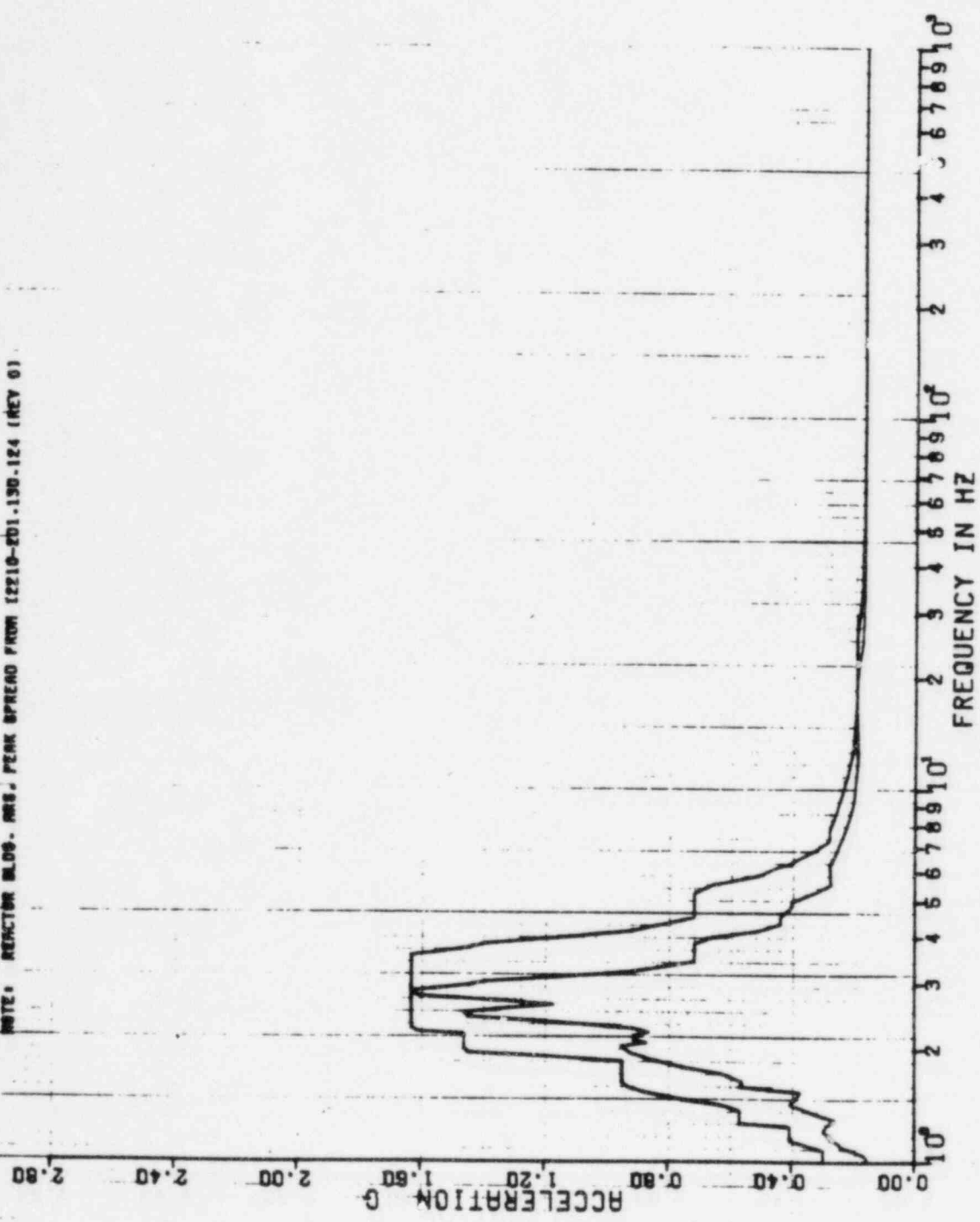
2.3: -0

K. KAY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 07  
 D/JLF STATE UTILITIES-RBS UNIT 1-CALC(12210-MM(C))-80E-1903 REV(0)  
 RRS OF ACC.-REACTOR BLDG.-EL-212.00.MASS=15 SEIS MODEL-STEEL CONT.  
 PEAK SPREAD -20%.+25%

DISK CURVE SET NO.27      0.5 S6E      VER DIRECTION  
 NOTE: REACTOR BLDG. RBS. PEAK SPREAD FROM 12210-201.150-124 (REV 01)



621A

8 FEB 1963

K. KAY

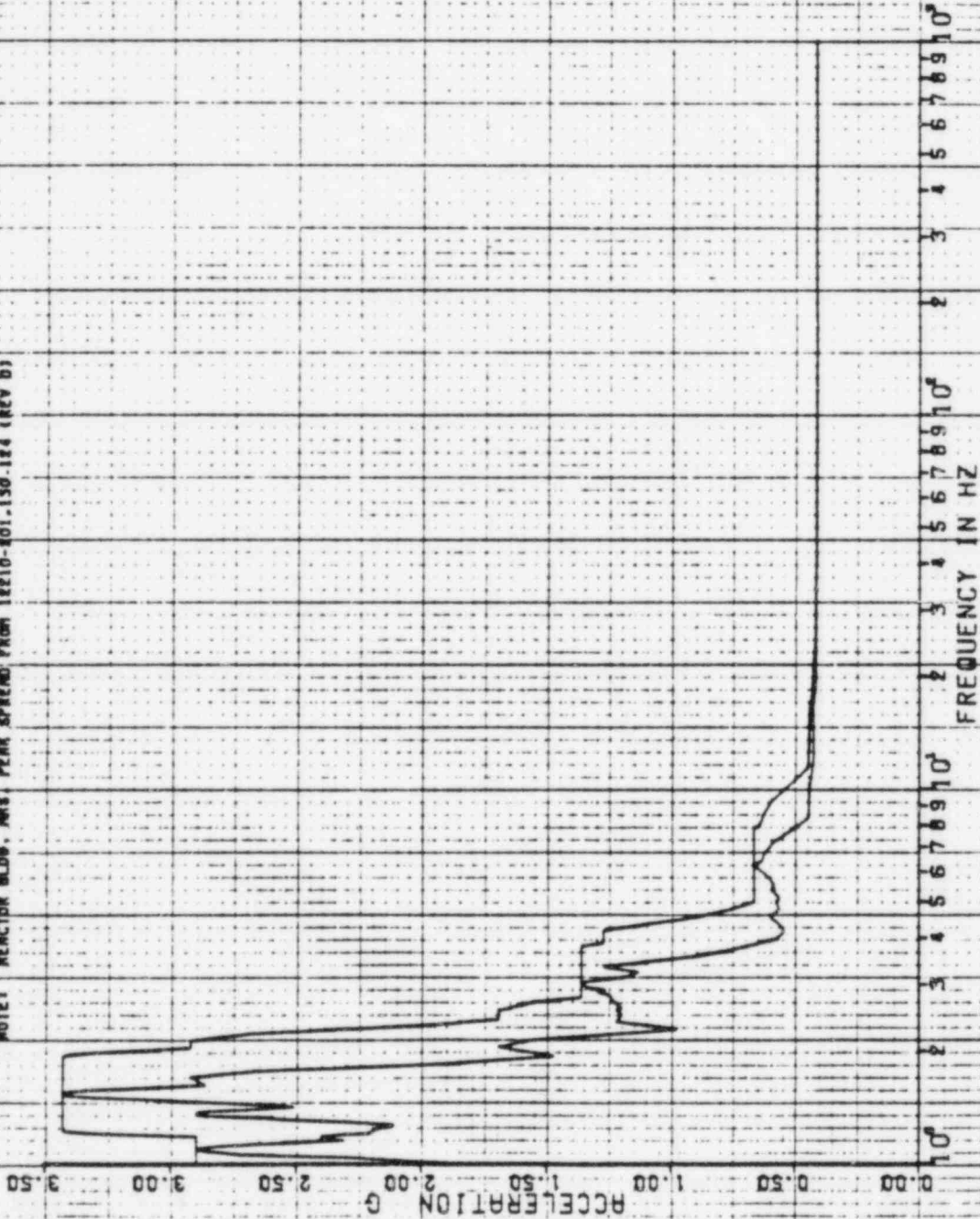
DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 08  
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NR1C1-60E-1903 REV11  
RBS OF ACC.-REACTOR BLDG. EL-212.00, MASS=15 SE16 MODEL-STEEL CONT  
PEAK SPREAD -20% +25%

DISK CURVE SET NO. 26

1.0 55E MOR DIRECTION

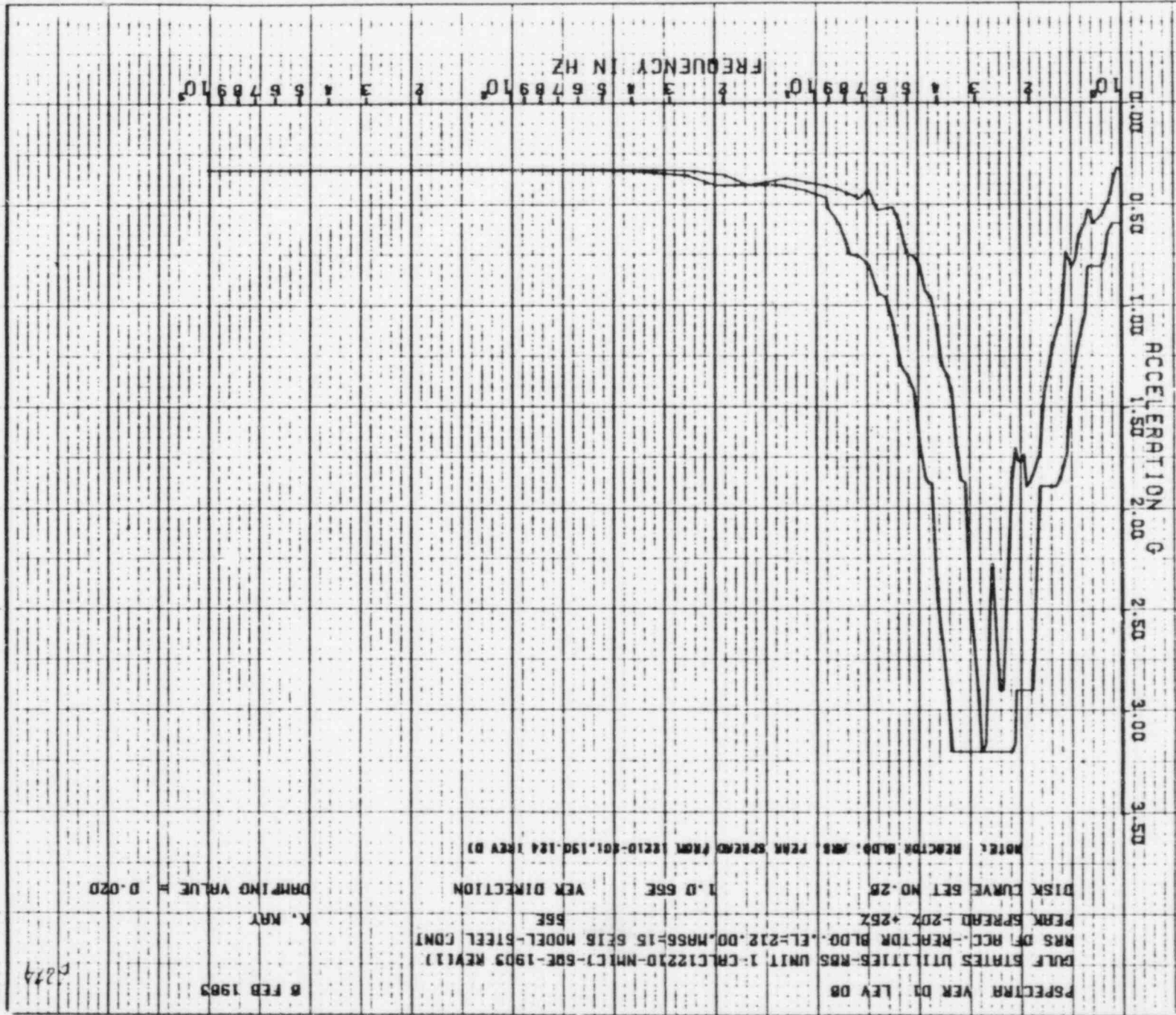
NOTE: REACTOR BLDG. RBS. PEAK SPREAD FROM 18210-501.130-184 (REV D)



5 6 7 8 9 10  
1 2 3 4 5 6 7 8 9 10  
1 2 3 4 5 6 7 8 9 10  
1 2 3 4 5 6 7 8 9 10



REF 84



SPECTRA VER D3 LEV 08  
 GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM1C7-50E-1903 KEV11  
 RBS OF RCC-REACTOR BLDG., EL=212.00, MRS6=15 5E16 MODEL-STEEL (CMT)  
 PEAK SPREAD =20% +25%  
 DISK CURVE SET NO.28  
 1.0 55E  
 VER DIRECTION  
 NOTE: REACTOR BLDG. RBS PEAK SPREAD FROM REID-001.150.124 (REV D)  
 8 FEB 1983  
 K. MAY  
 DRAFTING VALUE = 0.020  
 0274

3624

22 APR 1982

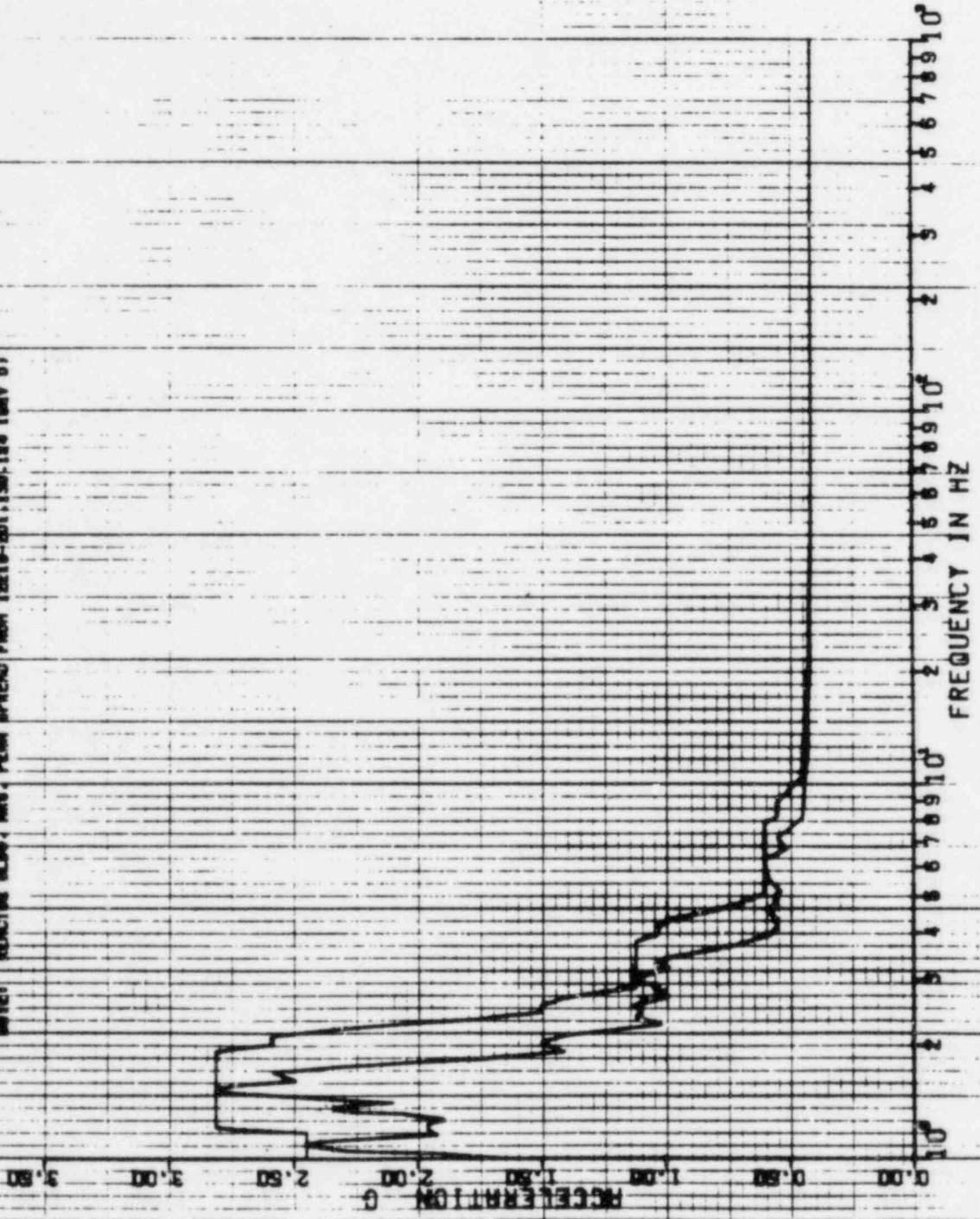
K-KAY

DAMPING VALUE = 0.030

PSPECTRA VER 01 LEV 07  
GULF STATE UTILITIES-RBB UNIT 1-CALC(2210-NHIC)-SDE-1903 REV(0)  
ARS OF REC.-REACTOR BLDG.-EL+212.00.MASS+15 SEIS MODEL-STEEL CONT.  
PEAK SPREAD -20%+25%  
55E

DISK CURVE SET NO.28  
1.0 55E MDR DIRECTION

NOTE: REACTOR BLDG. HAS BEEN SPREAD FROM 12210-201.150.126 180V 87



363

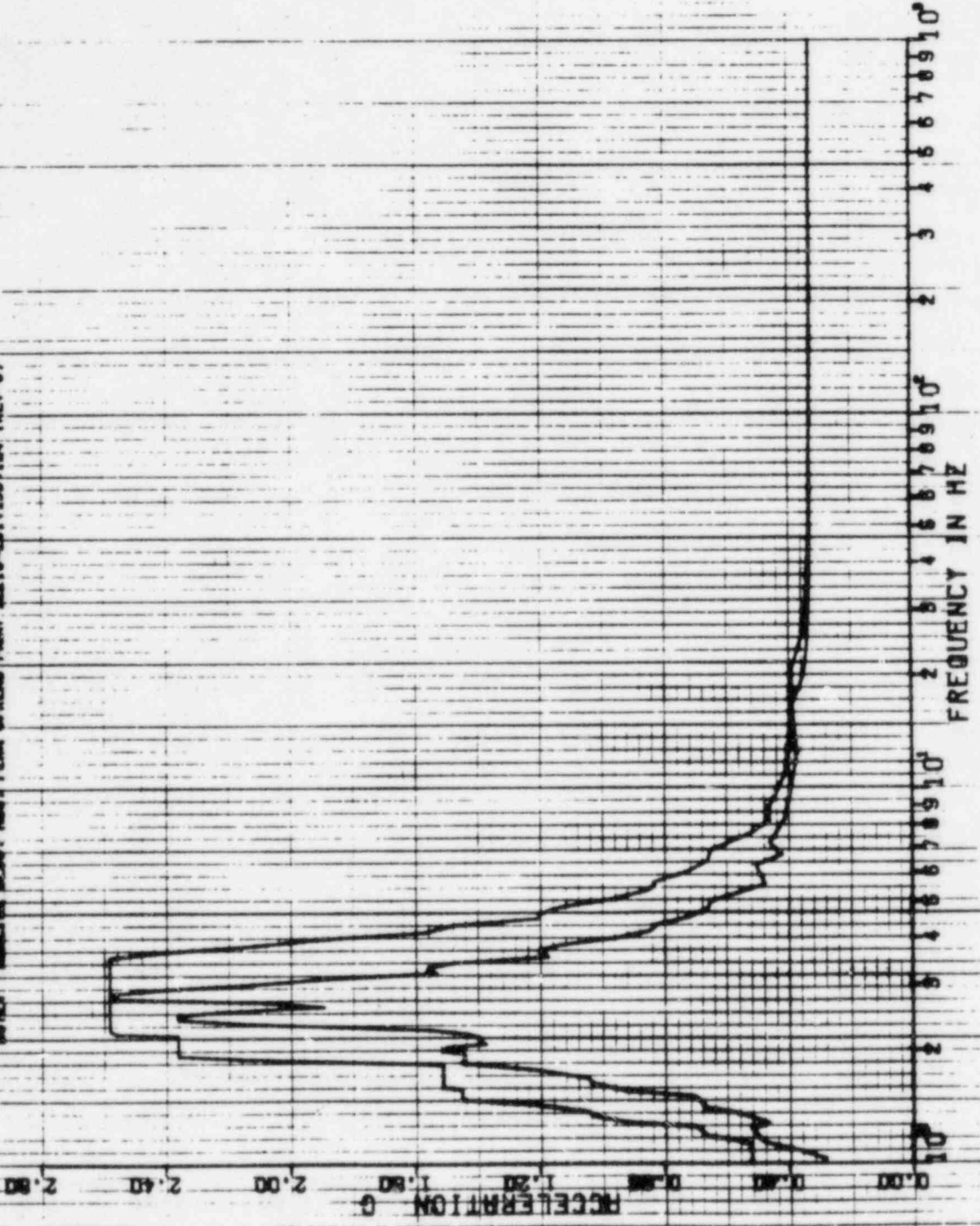
22 APR 1982

K-KRY

DAMPING VALUE = 0.030

P SPECTRUM VER 01 LEV 07  
 GULF STATE UTILITIES-RSS UNIT 1-CALC12210-MA(C)-SSE-1903 REV(0)  
 RRS OF ACC.-REACTOR BLDG. EL-212.00, MASS=15 SEIS MODEL-STEEL CONT.  
 PEAK SPREAD -20Z,+25Z  
 SSE  
 DISK CURVE SET NO. 28  
 1.0 SSE VER DIRECTION

PPKS: REACTOR BLDG. MASS PEAK SPREAD FROM 2010-2011.330-184 (REV 0)





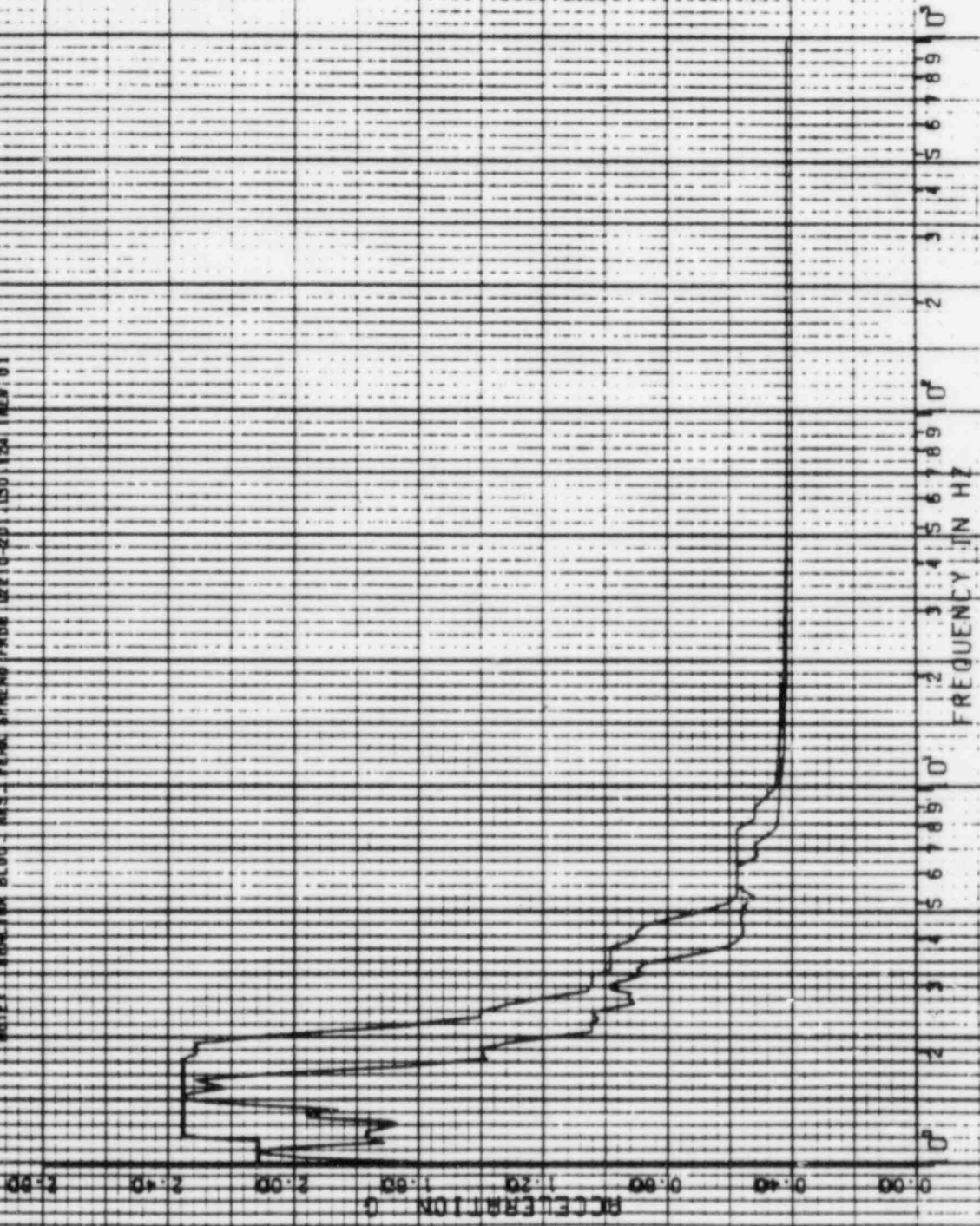
17-8A

22 APR 1982

LEAD

GRIPPING VALUE = 0.010

PSPEC IN VER 0 LEV 07  
 GOLF STATE 0 L 1.5 805 001 - CALC 12210 - MNI 1 - S08 - 1903 REV 101  
 RMS OF REC - REACTOR BLDG CL:212 001 MASS = 15 SE S MODEL - STEEL CONT  
 PENE SPREAD = 207 .257  
 WISE CURVE SE NO 20  
 DATE: REACTOR BLDG - M3 - PEAR - PAREN PROB APR 16 82 1555 124 (REV 01)





22 APR 1962

E. KAY

DAMPING VALUE = 0.010

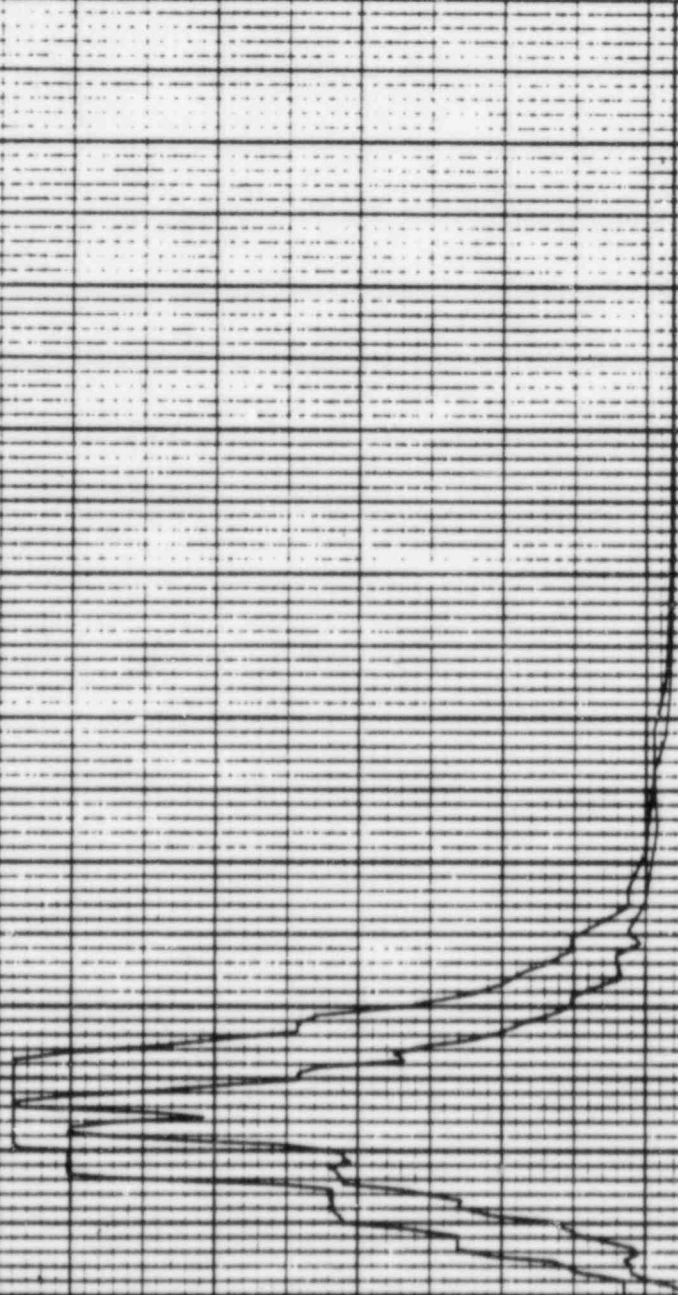
SPECTRA VER 0 LEV 07  
SOUTH STATE UTILITIES BBS UNIT - CALC 12210-MA10-308-1903 REV 10  
BBS OF ACE REACTOR BLOC RU-212.00 MASS-15 SE'S MODEL-STEEL CONT.  
PENE SPREAD -203.257

WISK CURVE SET NO 28 .0 SSE VER DIRECTION

NOTE: REACTOR BLOC AND BLOC ARE NOT FROM UZZ 10-20. UZZ 124 (REV 01)

ACCELERATION 0 0.40 0.80 1.20 1.60 2.00 2.40 2.80

FREQUENCY IN HZ 0 1 2 3 4 5 6 7 8 9 10



PSPECTRA VER 01 LEV 07

DULF STATE UTILITIES-M86 UNIT 1-CALC(12210-MM(C)-50E-1909 REV(0)  
RRS OF ACC.--REACTOR BLDG.-EL-239.20, MASS=16 SEIS MODEL-STEEL CONT.  
PEAK SPREAD -20%, +25Z

DISK CURVE SET NO.29

0.5 SSE

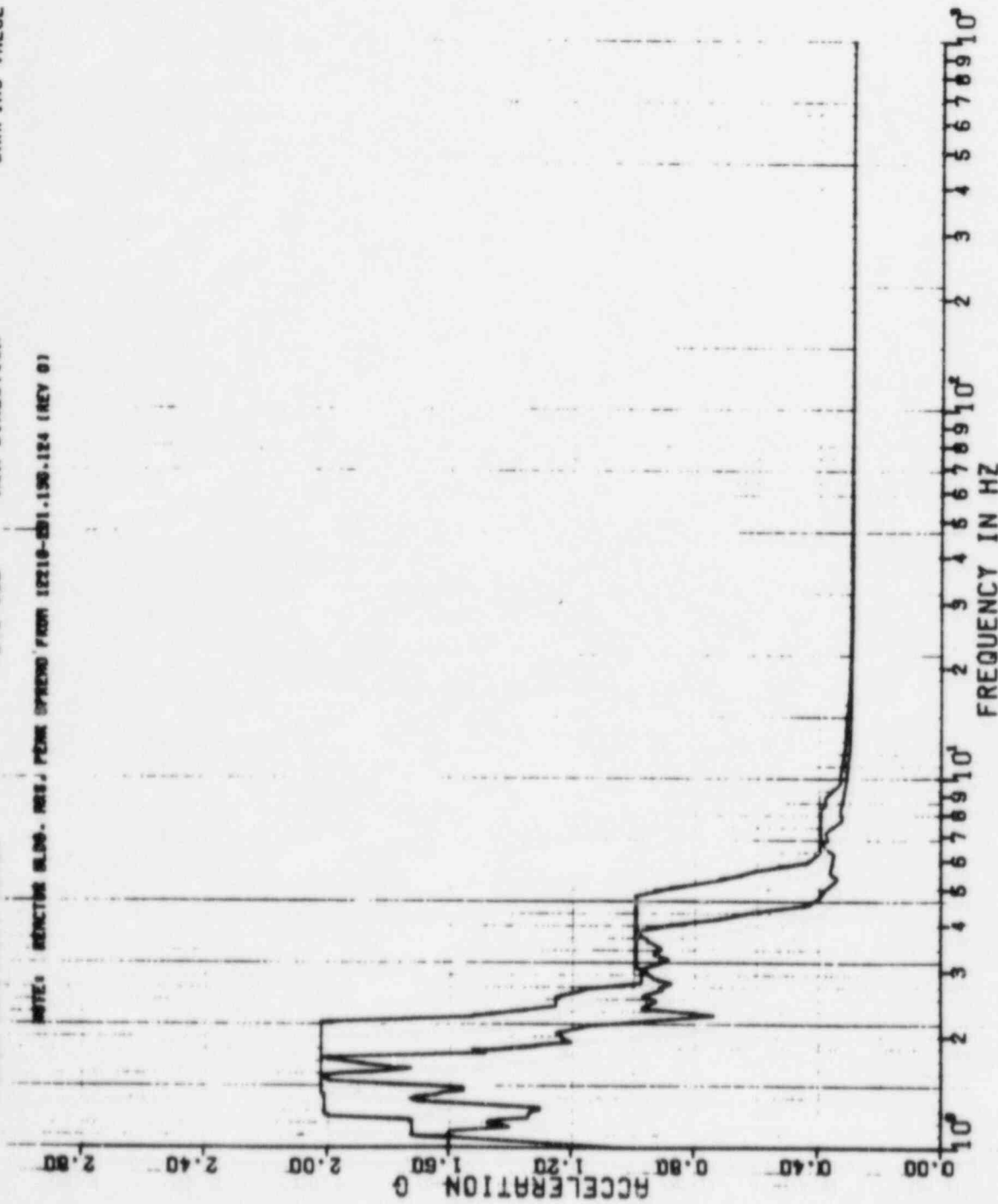
HOR DIRECTION

DAMPING VALUE = 0.020

NOTE: INDICATED BLDG. RES. PEAK SPREAD FROM 10210-001.130.124 (REV 0)

22 APR 1982

K.KAY



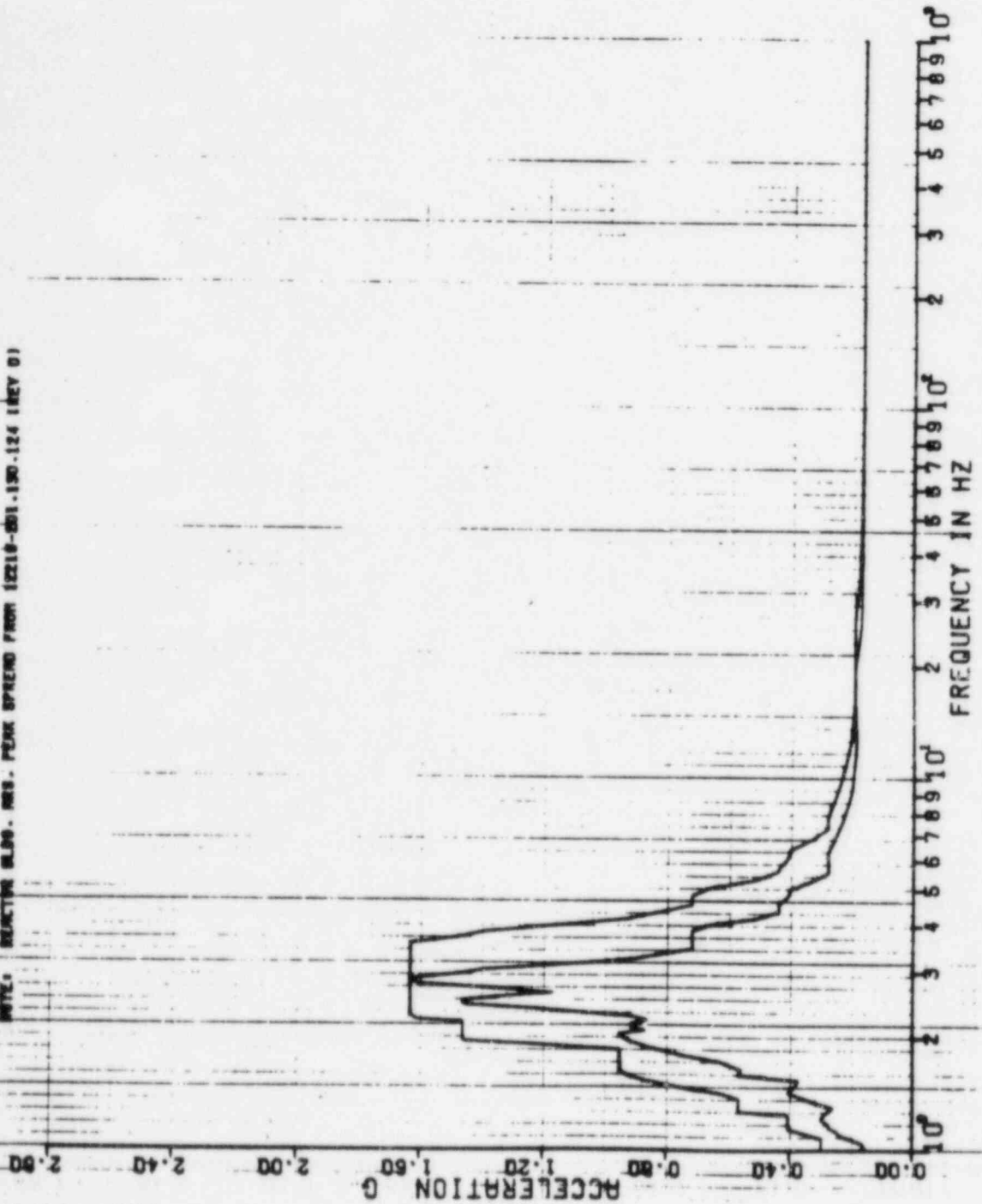
22 APR 1982

2.3: 4

K. KAY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 07  
 OULF STATE UTILITIES-RBS UNIT 1-CALC(12210-MM(C)-SGE-1909 REV(0)  
 RRS OF ACC.-REACTOR BLDG.-EL-239.20.MASS=16 SEIS MODEL-STEEL CONT.  
 PEAK SPREAD +20% +25Z  
 DISK CURVE SET NO.29 0.5 SGE VER DIRECTION  
 NOTE: REACTOR BLDG. RES. PEAK SPREAD FROM 12210-201.130.124 (REV 0)



REF 85

FREQUENCY IN HZ  
10  
9  
8  
7  
6  
5  
4  
3  
2  
1  
0.1

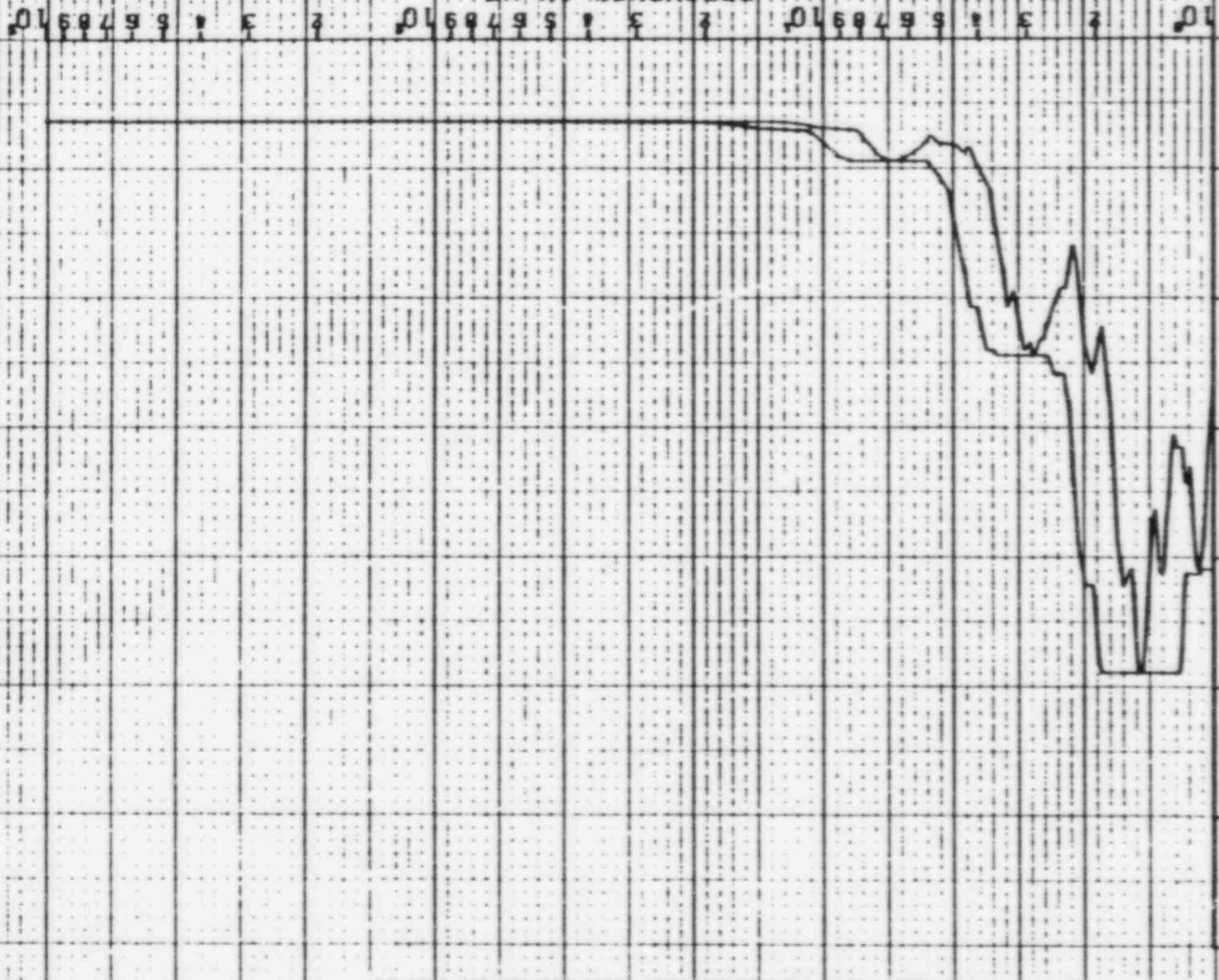
ACCELERATION  
0  
0.20  
0.40  
0.60  
0.80  
1.00

PSPECTRA VER D1 LEV 08  
DULF STATES UTILITIES-RBS UNIT 1-CRCL12210-NM1C7-69E-1903 REV11  
RMS OF RCC-REIN OR BLDO. EL-239.20, M866-16 6E16 MODEL-STEEL CONT  
PEAK SPREAD -20% +25%  
DISK CURVE SET NO.30  
1.0 SSE  
HOM DIRECTION  
NOTE: REACTOR BLDG. RMS PEAK SPREAD FROM 1E210-601.150.1E4 (REV D)

X. KRY  
DRAWING VALUE = 0.020

8 FEB 1983

624





6.1.4

8 FEB 1985

A. KRY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 08  
 GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MNICJ-5DE-18DS REV(11)  
 RRS OF ACC.-REACTOR BLDG.-EL-259-RD-MR55-16 5E16 MODEL-STEEL CONT  
 PEAK SPREAD -20Z +25Z  
 DISK CURVE SET NO.30

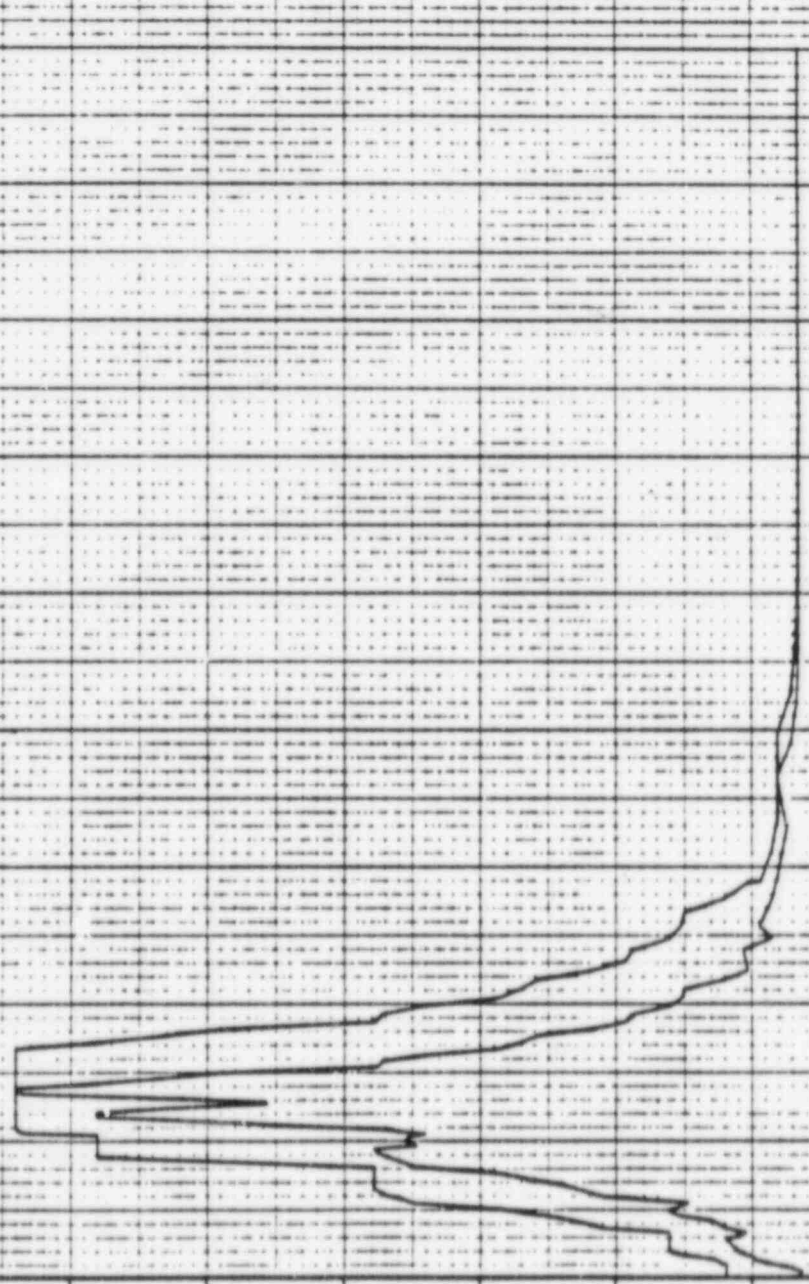
1.0 55E VER DIRECTION

NOTE: REACTOR BLDG. RBS. PEAK SPREAD FROM 12210-401-150-124 (REV B)

ACCELERATION 0 0.50 1.00 1.50 2.00 2.50 3.00 3.50

10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup> 10<sup>9</sup> 10<sup>10</sup>

FREQUENCY IN HZ



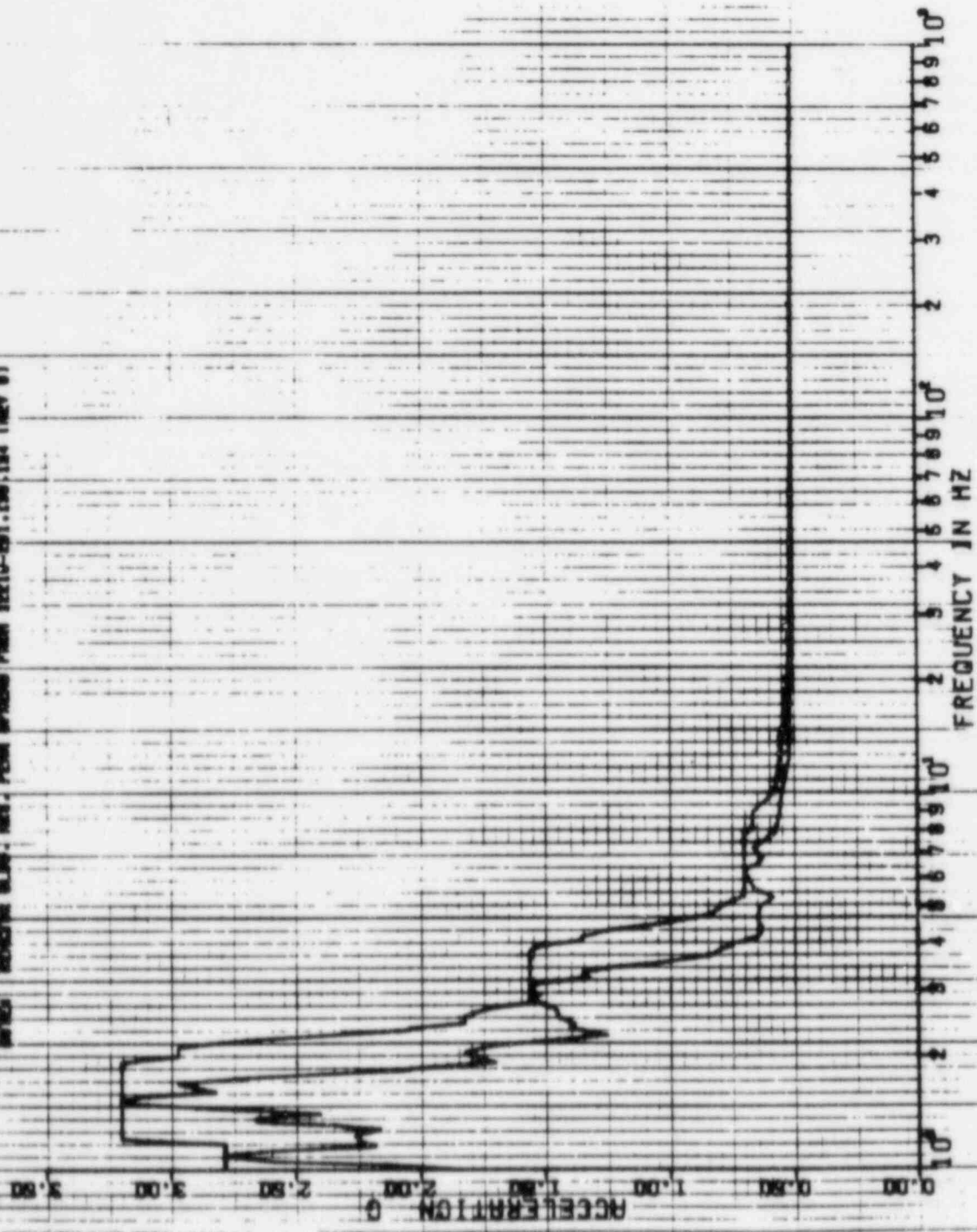
3644

22 APR 1982

K. KAY

DAMPING VALUE = 0.050

P SPECTRA VER 01 LEV 07  
 DULF STATE UTILITIES-R86 UNIT 1-CALC(1210-MR(C)-88E-1903 REV(0)  
 RRS OF ACC.-REACTOR BLDG.-EL-239.20, MASS-16 SEIS MODEL-STEEL CONT.  
 PEEK SPREAD - 2011+252.  
 DISK CURVE SET NO. 30  
 1.0 SSE MOR DIRECTION  
 SERIES: INDICATED VALUE. INTS. FROM SPREAD FROM 2010-291.130.134 (REV 0)



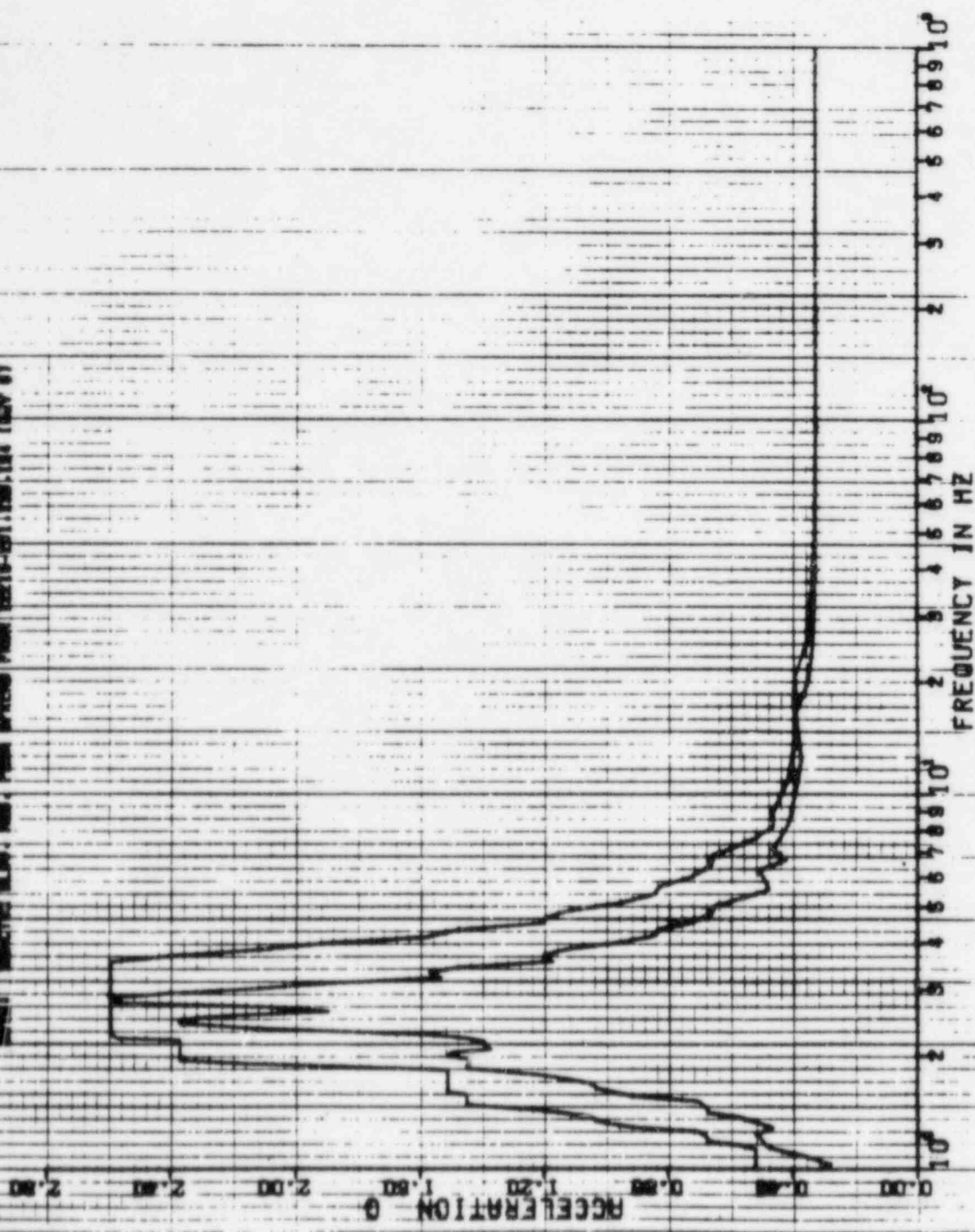
365A

22 APR 1962

K. KAY

DAMPING VALUE = 0.030

INSPECTOR VER 01 LEV 07  
 GULF STATE UTILITIES-RDS UNIT 1-CALC 12210-MN(C)-802-1903 REV 101  
 REV: OF ACC. REACTOR BLDG-EL-239-20-MASS-16 SEIS MODEL-STEEL CONT.  
 PERK SPZ280 -20L-25X  
 DISK CURVE SET NO. 50  
 1.0 SSE VER DIRECTION  
 FROM (2010-251) (2010-124) (2010-81)





-150 A

22 APR 1982

K. KRY

DAMPING VALUE = 0.040

PSPECTRA VER DA LEV D7  
 GOLF SWAVE UTILITIES-RBS UNIV 1-CALCIPED-NHLYD-SDE-1989 REVIDJ  
 RIS OF RCL-REACTOR BLOC-ELPBB-20-MAS5-16 SE15 MODEL-SWEELE-DMY  
 PERK SPREAD-20Z-25V  
 DISK CURVE SET NO. 01

1.01 55E HOR DIRECTION

NOTE: REACTOR BLOC HAS BEEN SPREAD FROM 4210-401.5G.114 (REV D)

ACCELERATION 0 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00

FREQUENCY IN HZ 10<sup>0</sup> 2 3 4 5 6 7 8 9 10<sup>1</sup>





131A

22 APR 1982

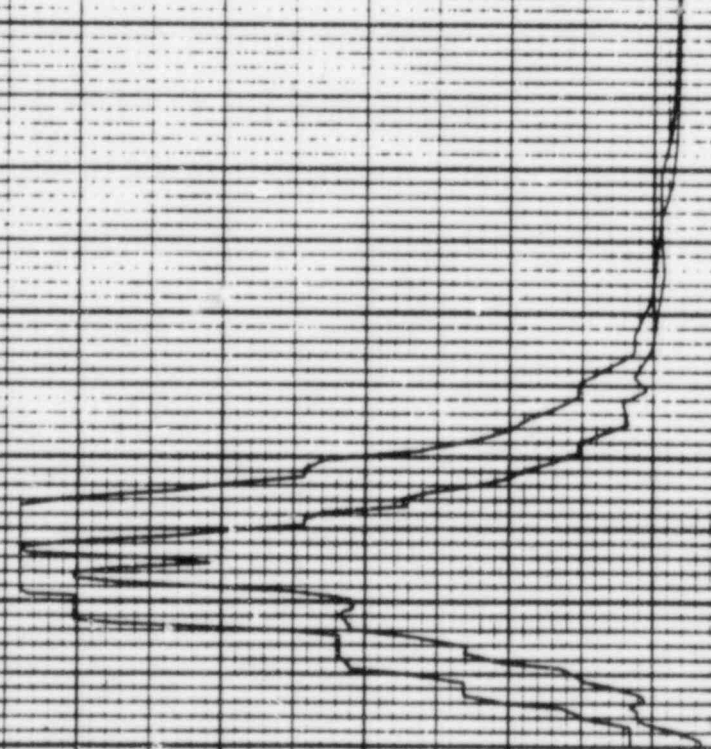
K XRAY

DAMPING VALUE = 0.040

PSEUDORR VER D3 LEV D7  
 CULF STAVE UNIT VVTE5-RBS UNIT 1-CAL C1221 D1NHTC J-S01 1908 REV D3  
 RRS OF RECL-REACTOR BLDG EL-238.20 MASS-15 SE15 MODEL STEEL CONT.  
 PERK SPREAD -20V L-25X  
 DISK CURVE SET NO. 30

1.0 SSE VER DIRECTION

NOTE: REACTION 0.04 MASS PERM SPREAD FROM (2210-500.150.124 146V b)



REGENERATION G

FREQUENCY IN HZ

PSPECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-N11(C)-S0E-1903 REV(0)  
RRS OF ACC.-REACTOR BLDG.EL=96.000.MASS=17 SEIS MODEL-PSM.PEDESTAL  
PEAK SPREAD -20%.+25% 08E

DISK CURVE SET NO.31

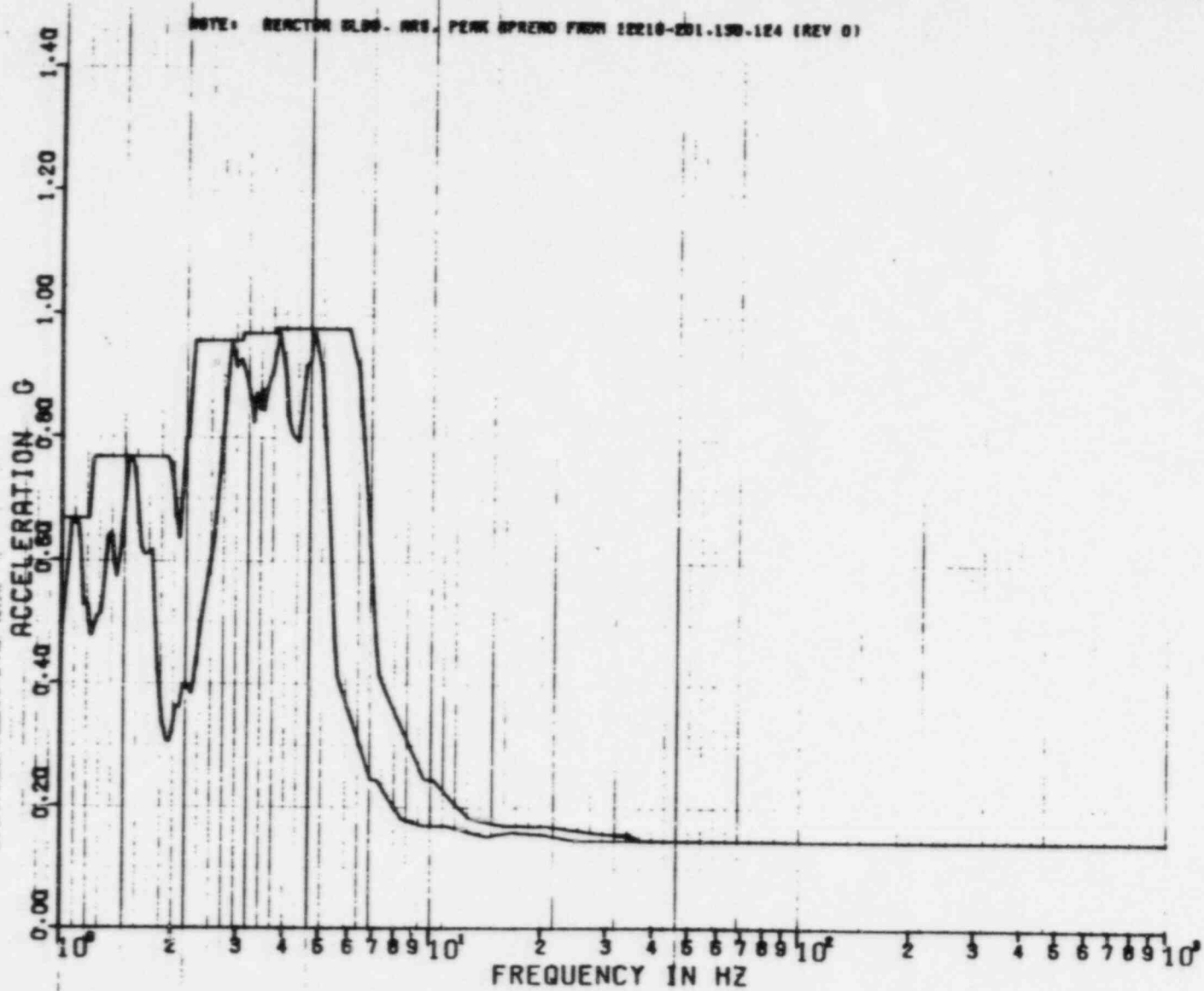
0.5 66E

HOR DIRECTION

K.KAY

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RRS. PEAK SPREAD FROM 12210-201.130-124 (REV 0)



REF 86

PSPECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1909 REV(0)  
RBS OF ACC.-REACTOR BLDG.EL=95.000,MASS=17 SEIS MODEL-PSM,PEDESTAL  
PEAK SPREAD -20%,+25% OBE

K.KAY

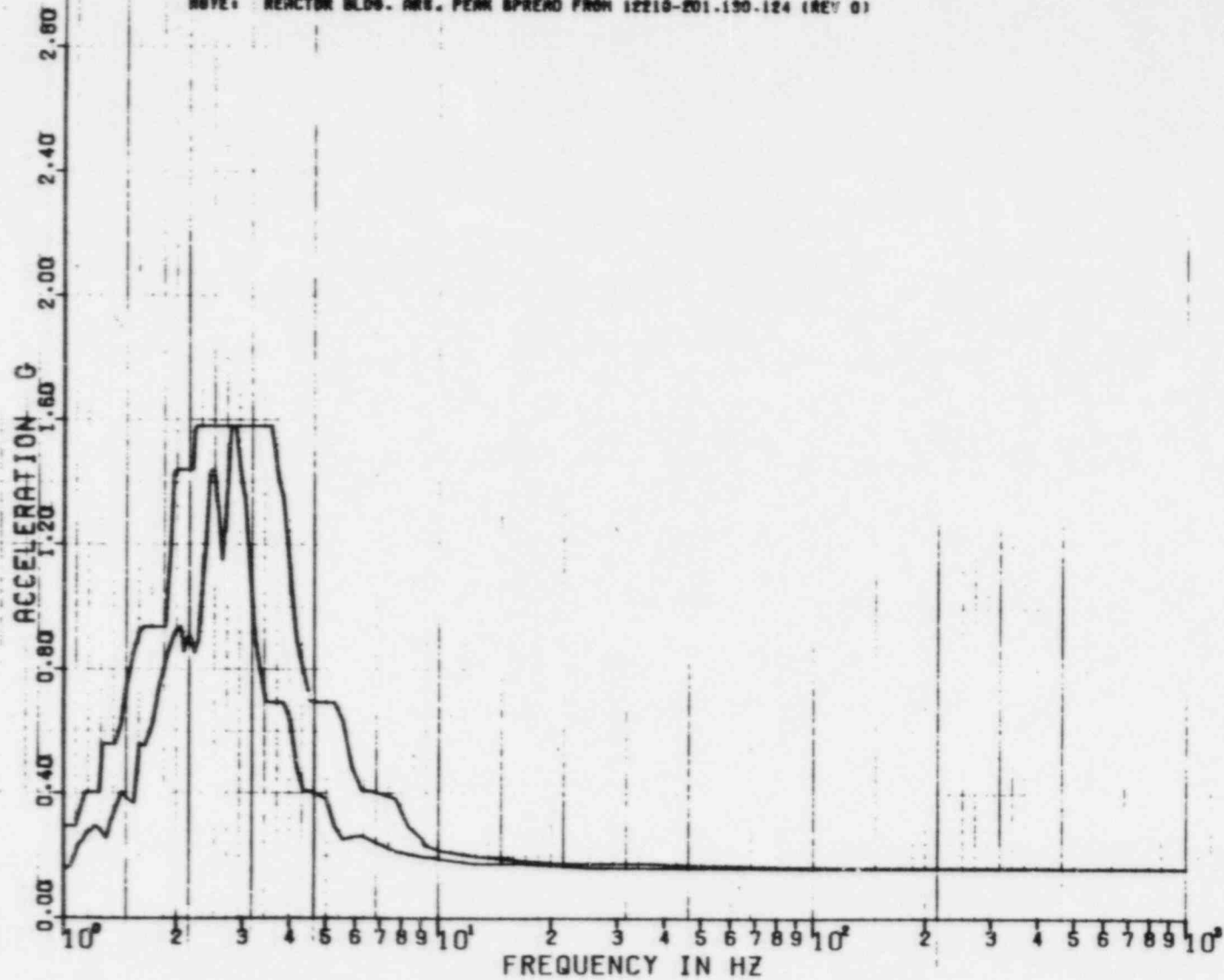
DISK CURVE SET NO.91

0.5 GSE

VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RBS. PEAK SPREAD FROM 12210-201.190.124 (REV 0)

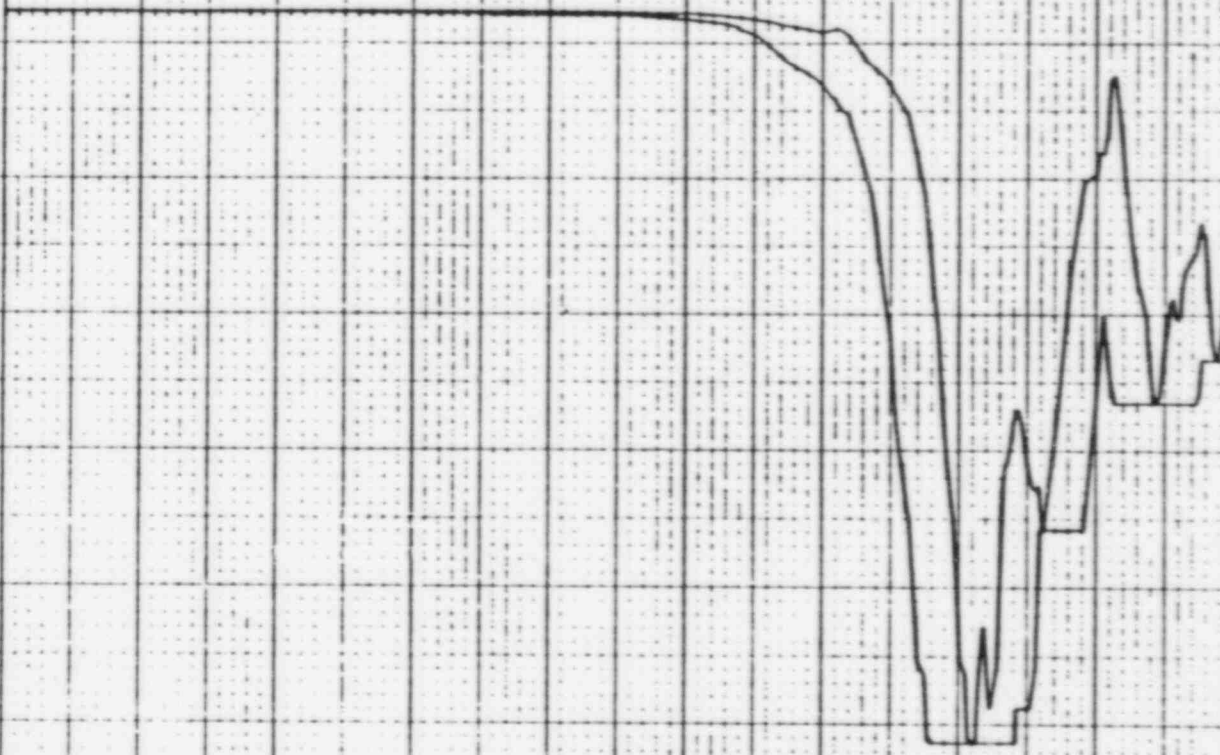


REF 86

REF 86

FREQUENCY IN HZ  
10 9 8 7 6 5 4 3 2 1 0.5 0.2 0.1

ACCELERATION G  
0.00 0.40 0.80 1.20 1.60 2.00 2.40 2.80



SPECTRA VER 01 LEV 08  
 DULF STATES UTILITIES-RBS UNIT 1-CR/C12210-NM(C)-6DC-1903 REV11  
 RMS OF RCC-RECTOR BLDG. EL:95.000,MR55:17 6E16 MODEL-75M,FEDERAL  
 PEAK SPREAD -20Z +25Z  
 DISK CURVE SET NO.32  
 1.0 GSE  
 HOR DIRECTION  
 GSE  
 X. RAY  
 DAMPING VALUE F. 0.020  
 NOTE: RECTOR BLDG. RMS PEAK SPREAD FROM TESTID-601.130.124 (REV B)

8 FEB 1983

534



6.2

8 FEB 1963

X. KAT

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 08  
 GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MNIC1-502-1903 REV117  
 RRS OF ACC.-REACTOR BLDG. EL-95-000. MASS-17 5E16 MODEL-PSM.PEDESTAL  
 PEAK SPREAD -20Z +25Z

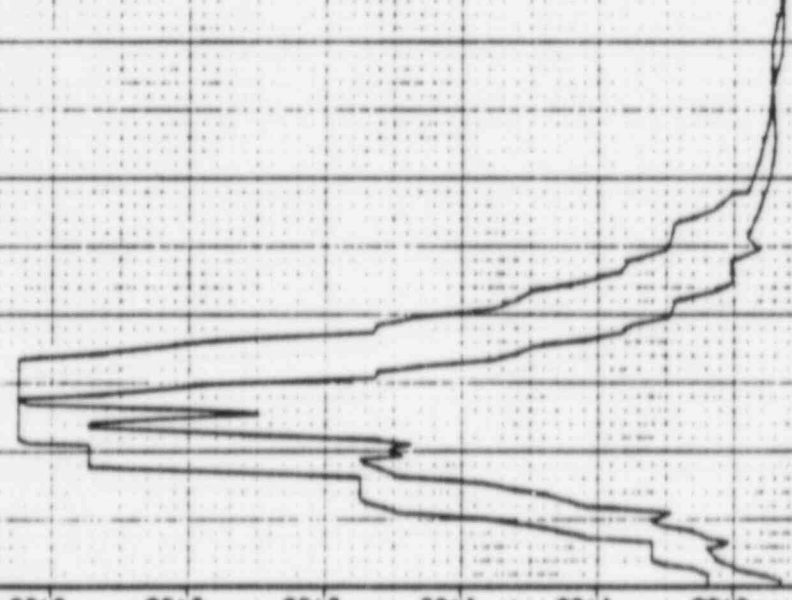
1.0 55Z VER DIRECTION

NOTE: REACTOR BLDG. MASS. PEAK SPREAD FROM 1E210-601.130-1E4 (REV 0)

DISK CURVE SET NO.32

ACCELERATION G

FREQUENCY IN HZ



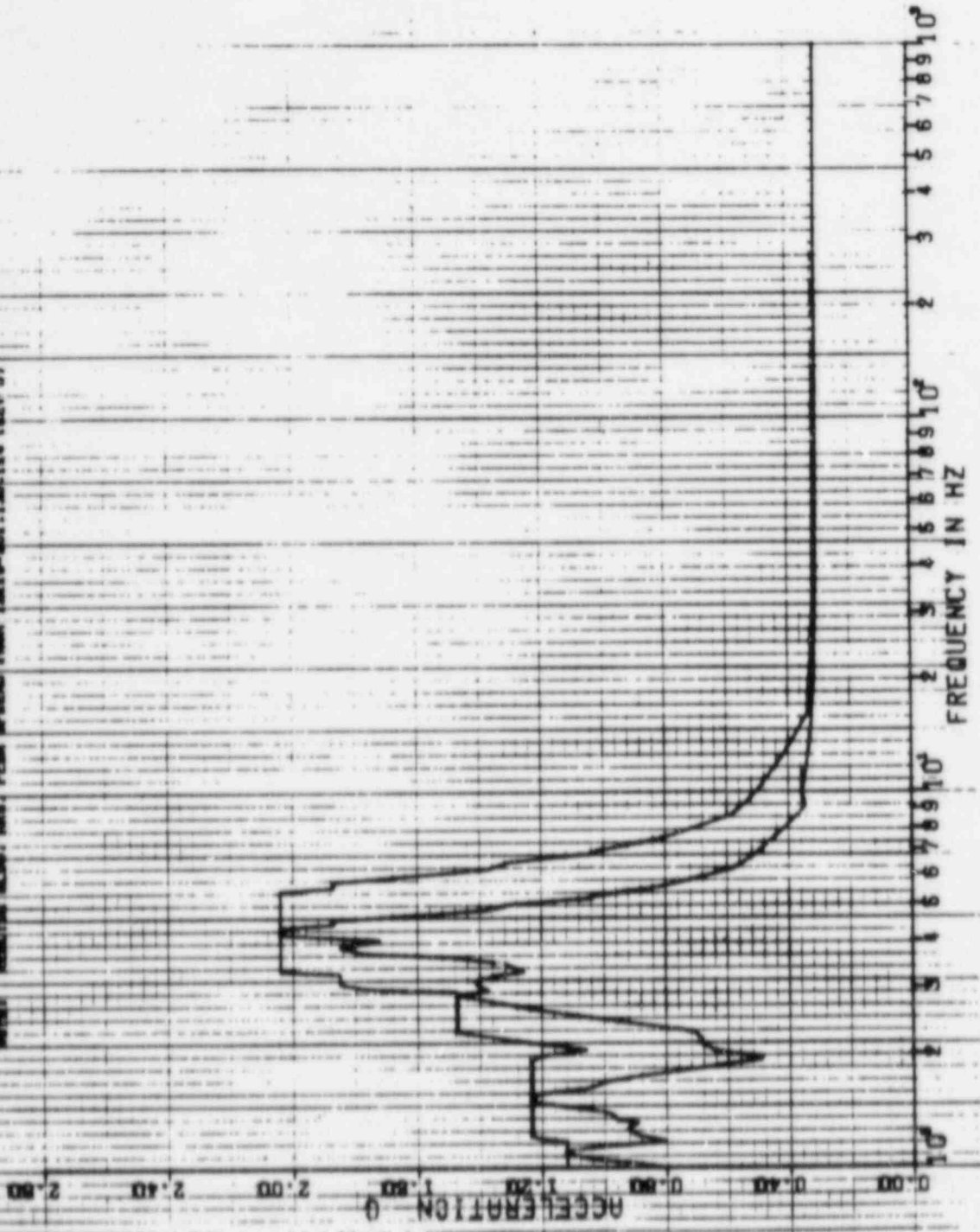
3160

22 APR 1982

K. KAY

DAMPING VALUE = 0.030

PSPECTRA VER ON LEV 07  
 GULF STATE UTILITIES-RBS UNIT 1-CALCIBID-MHC)-SDE-1809 REV (0)  
 NWS OF REC-REACTOR BLDG. EL-95.000.MASS-17 SEIS MODEL-PSM.PEDESTAL  
 PERIL SPHERO-EXL-185K  
 DISK CURVE SET NO. 92  
 1-D SSE  
 1-D SSE  
 MDR DIRECTION  
 MDR DIRECTION



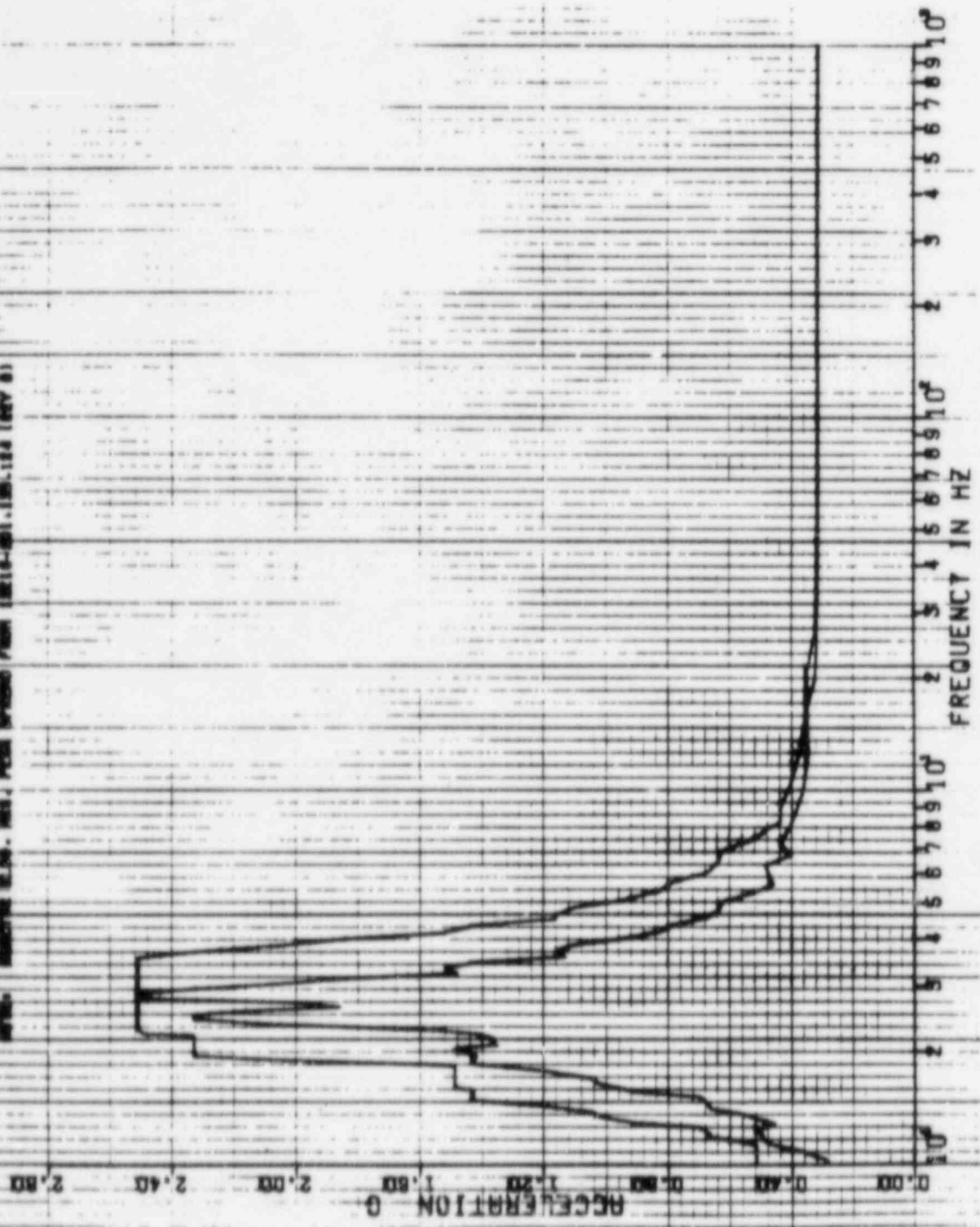
367A

22 APR 1982

K. RAY

DAMPING VALUE = 0.050

SPECTRA VER 01 LEV 07  
 DUL STATE UTILITIES-RBS UNIT 1-CALC12210-WAIC1-00E-1909 REV 01  
 RMS OF ACC.-REACTOR BLDG. EL-95.000. MASS=17 SEIS MODEL-PSM. PEDESTAL  
 PERK SPREAD. -20Z. +25Z  
 DISK CURVE SET NO. 32  
 1.0 SSE VER DIRECTION  
 DATA: MASSING 12.00. MASS PERK SPREAD FROM 0010-001.100.100 (REV 0)





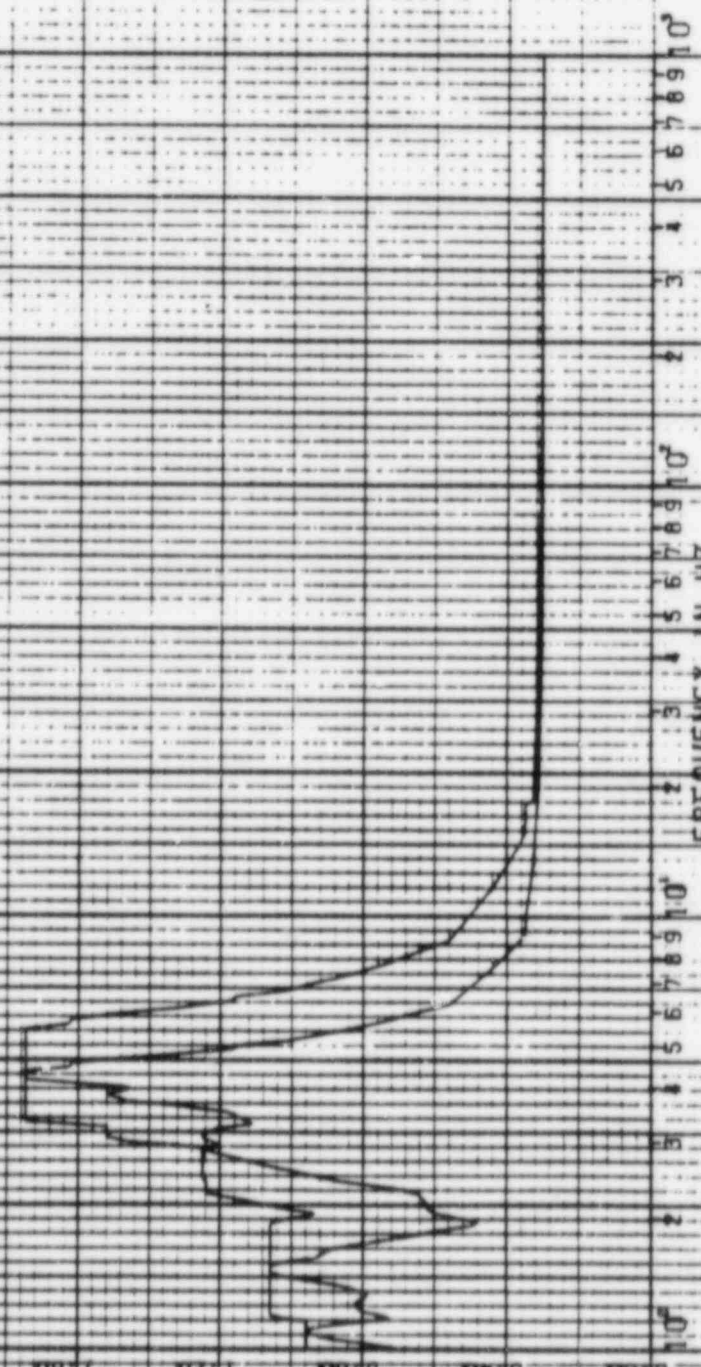
17329

22 APR 1952

K. KRY

DAMPING VALUE = 0.040

SPECTRA VER DN LEV 00  
 GOLF STAIRS UNIT VIBES-RBS UNIT 1-CALCULATED-NMTCJ-50E-1909 REV D0  
 RMS OF REACTOR BLDG. EL-96.000. MASS-17 SEIS MODEL-PSW.PEDESTAL  
 PERK SPRING-20K.25Z  
 DISK CURVE SET 401-92  
 A.D. 55E HDR DIRECTION  
 UNIT: REACTOR BLDG. RMS. PERK SPRING FROM 12M.0.000. (SEL. 174 VIEW B)



FREQUENCY IN HZ

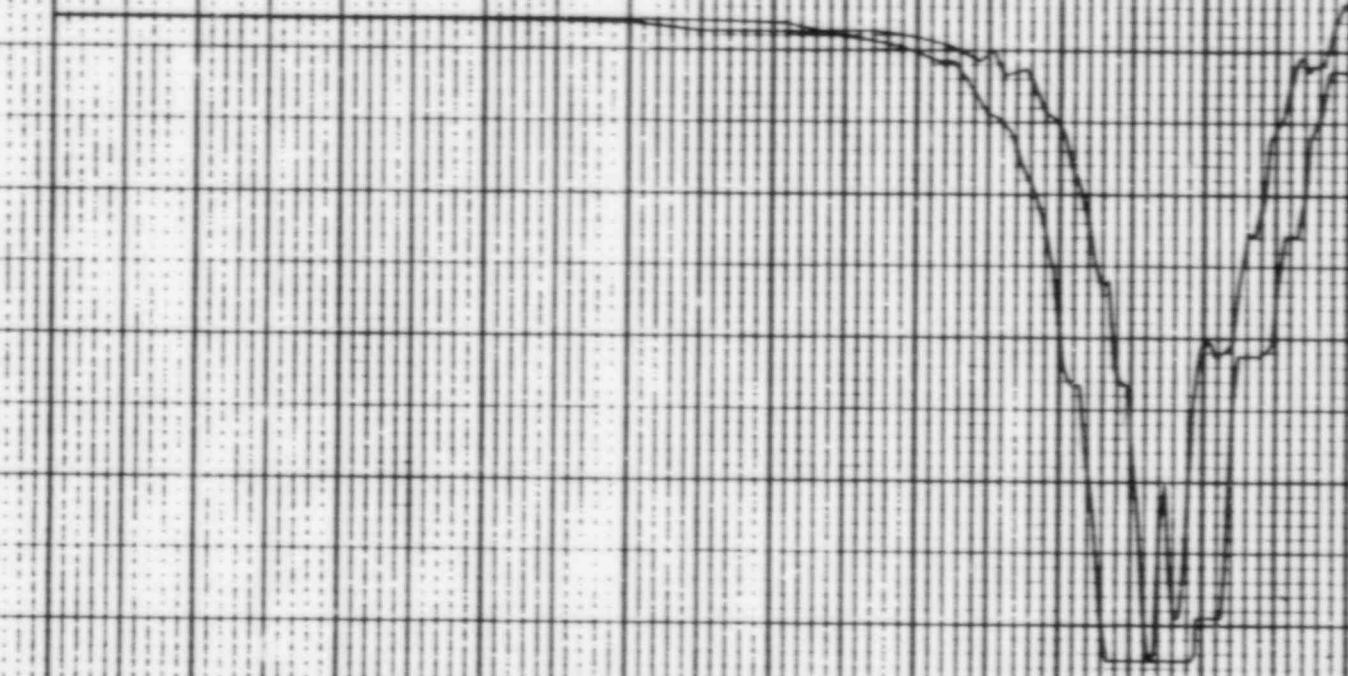
REGENERATION



REF 86

FREQUENCY IN HZ  
10 9 8 7 6 5 4 3 2 1 0  
10 9 8 7 6 5 4 3 2 1 0

REGENERATION 0  
0.000 0.200 0.400 0.600 0.800 1.000 1.200 1.400 1.600 1.800 2.000 2.200 2.400 2.600 2.800 3.000



PSPECTRA VER DA LEV 00  
 GOLF STATE JAIL-RES-RBS UNIT 1-CAL1222D-NM11-50E-1909 KEY (0)  
 RRS OF RCTL-REACTOR BLDG, EL-95-DDD, MASS-17 SEIS. MODEL-PSM, PEDESTAL  
 PEAK SPECTRUM PDR \*25X  
 SSE  
 DISK CURVE SET NO. 92  
 1.0 SSE  
 VER DIRECTION  
 DAMPING VALUE F. D.D.M.D.  
 K KAY  
 22 APR 1982

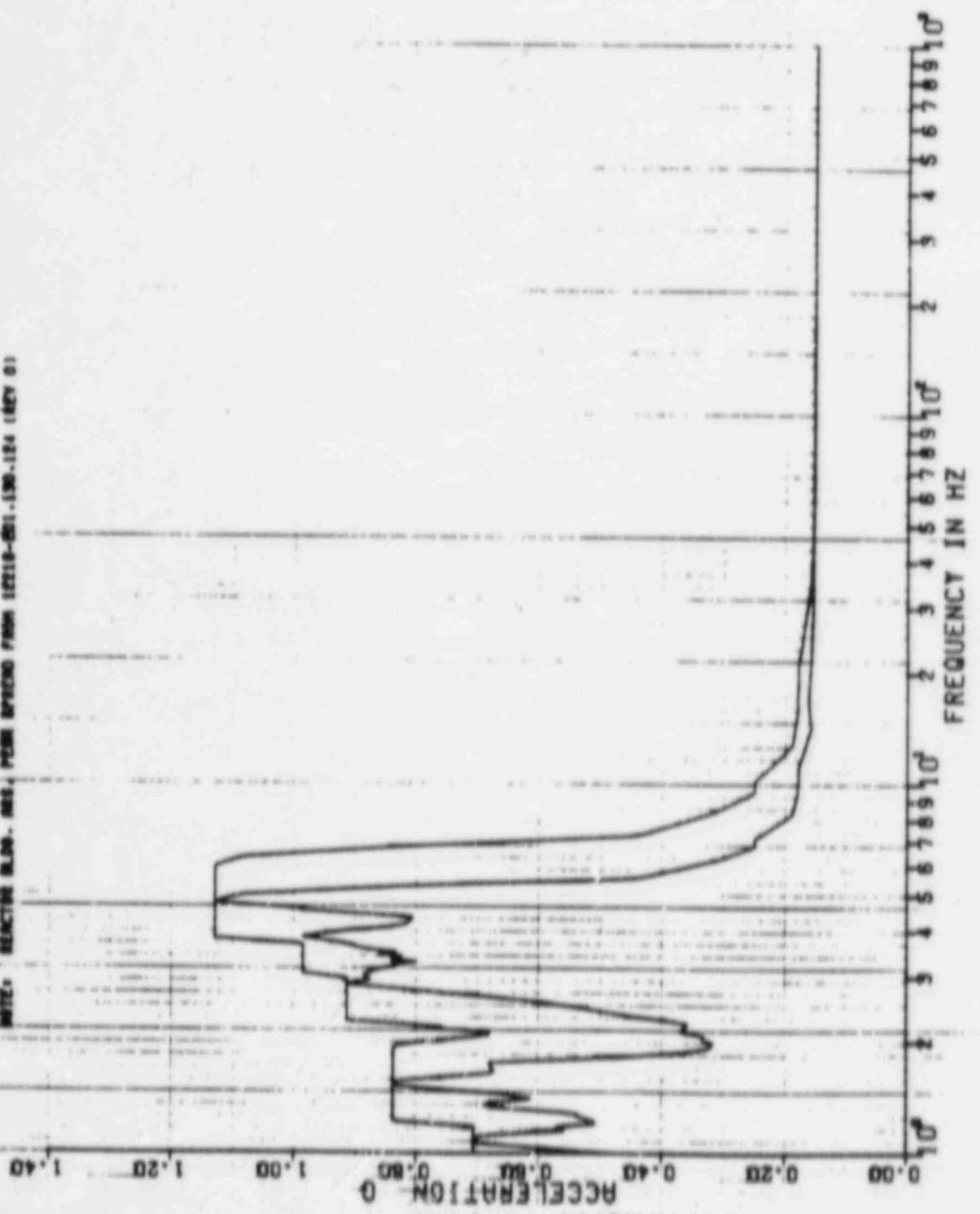
411A

22 APR 1982  
2:24 AM

K. KAY  
DAMPING VALUE = 0.020

SPECTRA VER 01 LEV 07  
DULF STATE UTILITIES-RBS UNIT 1-CALC12210-AMIC)-SQE-1903 PEV(0)  
RBS OF ACC.-REACTOR BLDG.-EL-101.00, MASS=18 SEIS MODEL-P5M, PEDESTAL  
PEAK SPREAD -20X,+25Z

JISK CURVE SET NO-33 0.5 SSE MOR DIRECTION  
NOTE: REACTOR BLDG. RBS, PEAK SPREAD FROM 10218-851.130-124 (KEY 8)

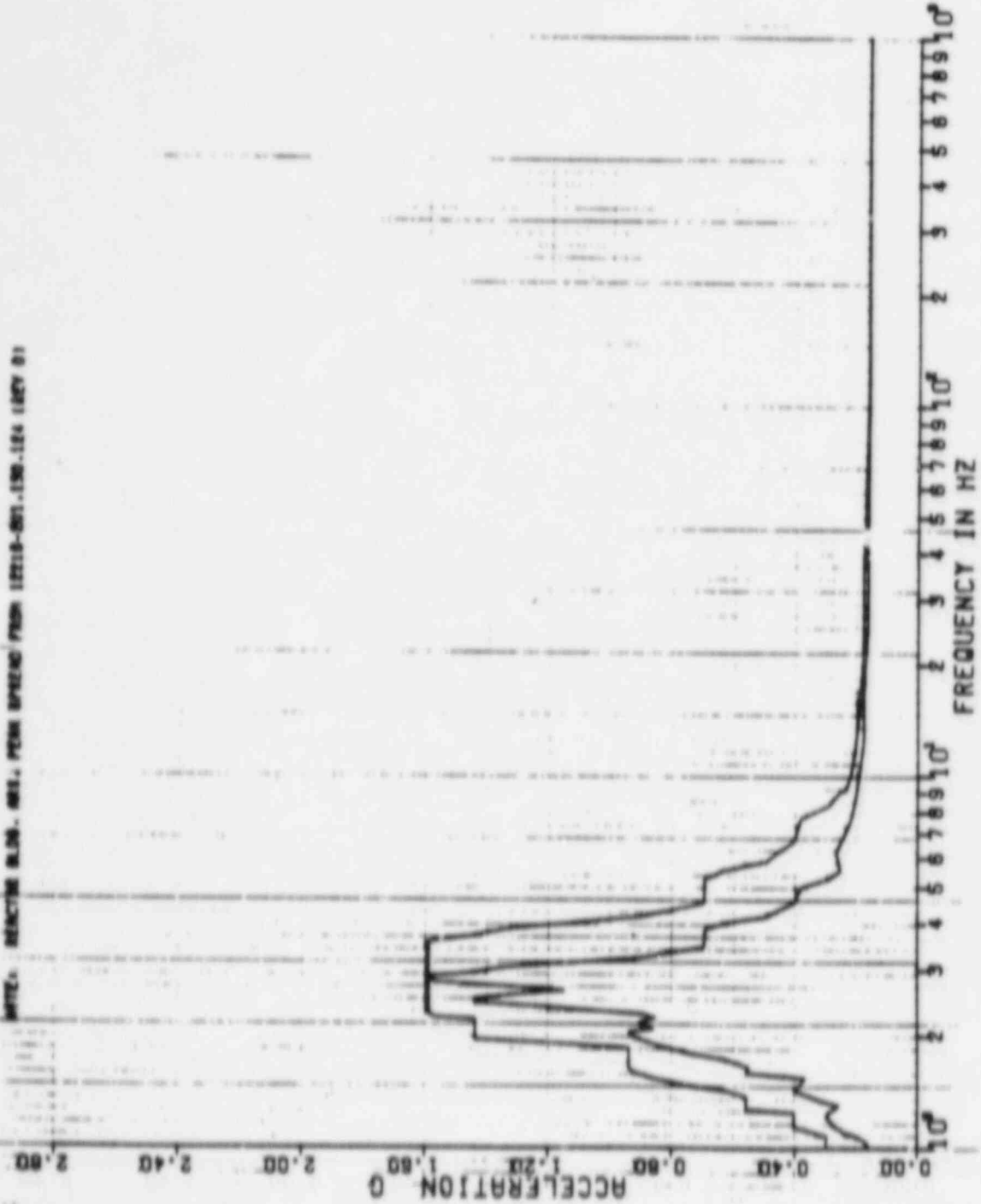


22 APR 1982

K. MAY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 07  
 DULF STATE UTILITIES-RSS UNIT 1-CALC12210-MNIC1-88E-1903 REV101  
 RSS OF RCC--REACTOR BLDG. EL=101.00, MASS=18 SEIS MODCL-PSM, PEDESTAL  
 PEAK SPEED -202. +252  
 DISK CURVE SET NO. 33 0.5 SSE VER DIRECTION  
 NOTE: REACTOR BLDG. RSS. PEAK SPEED FROM 12210-001.130-124 (REV 01)



8 FEB 1963

K. KRY.

DRAWING VALUE 0.020

PSPECTRA VER 03 LEV 08  
 GULF STATES UTILITIES-RMS UNIT 1-CALCIP210-NMIC)-SDE-1903 REV11)  
 MRS OF ACC.-REACTOR BLDG. .EL=101.00.MR66=18.6E16 MODEL-PSM.PEDESTAL  
 PEAK SPREAD -20% +25%  
 DISK CURVE SET NO.34

1.0 55E HOR DIRECTION

NOTE: REACTOR BLDG. RMS. PEAK SPREAD FROM (E210-101.150.184 TRV D)

2.80

2.40

2.00

1.60

1.20

0.80

0.40

0.00

ACCELERATION - G

10<sup>0</sup>  
 2  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 10<sup>1</sup>

FREQUENCY IN HZ





6.5.70

6 FEB 1965

K. MAY

DAMPING VALUE = 0.020

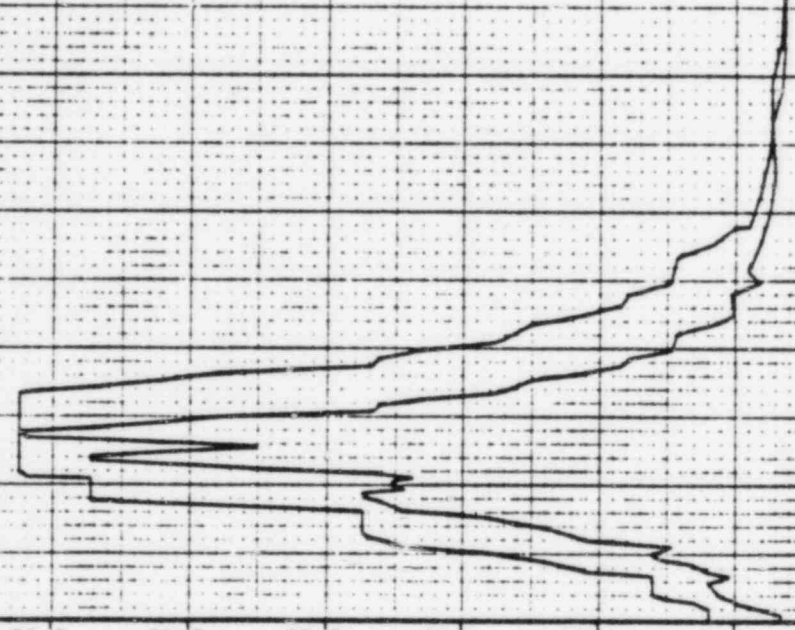
PSPECTRA VER 01 LEV 08  
 GULF STATES UTILITI. RBS UNIT 1-CALC12210-MMIC)-SDE-1903 REV11)  
 RRS OF ACC.-REACTOR B.00.-EL-101.00.-WAS65E10 5E16 MODEL-PSM.PEDESTAL  
 PEAK SPREAD -20Z.+25Z.  
 55E

1.0 55E VER DIRECTION

DISK CURVE SET NO.34  
 NOTE: REACTOR BLDG. RRS. PEAK SPREAD FROM 12210-201.130.124 (REV D)

ACCELERATION  
 0 0.50 1.00 1.50 2.00 2.50 3.00 3.50

FREQUENCY IN HZ  
 10<sup>0</sup> 2 3 4 5 6 7 8 9 10<sup>1</sup>



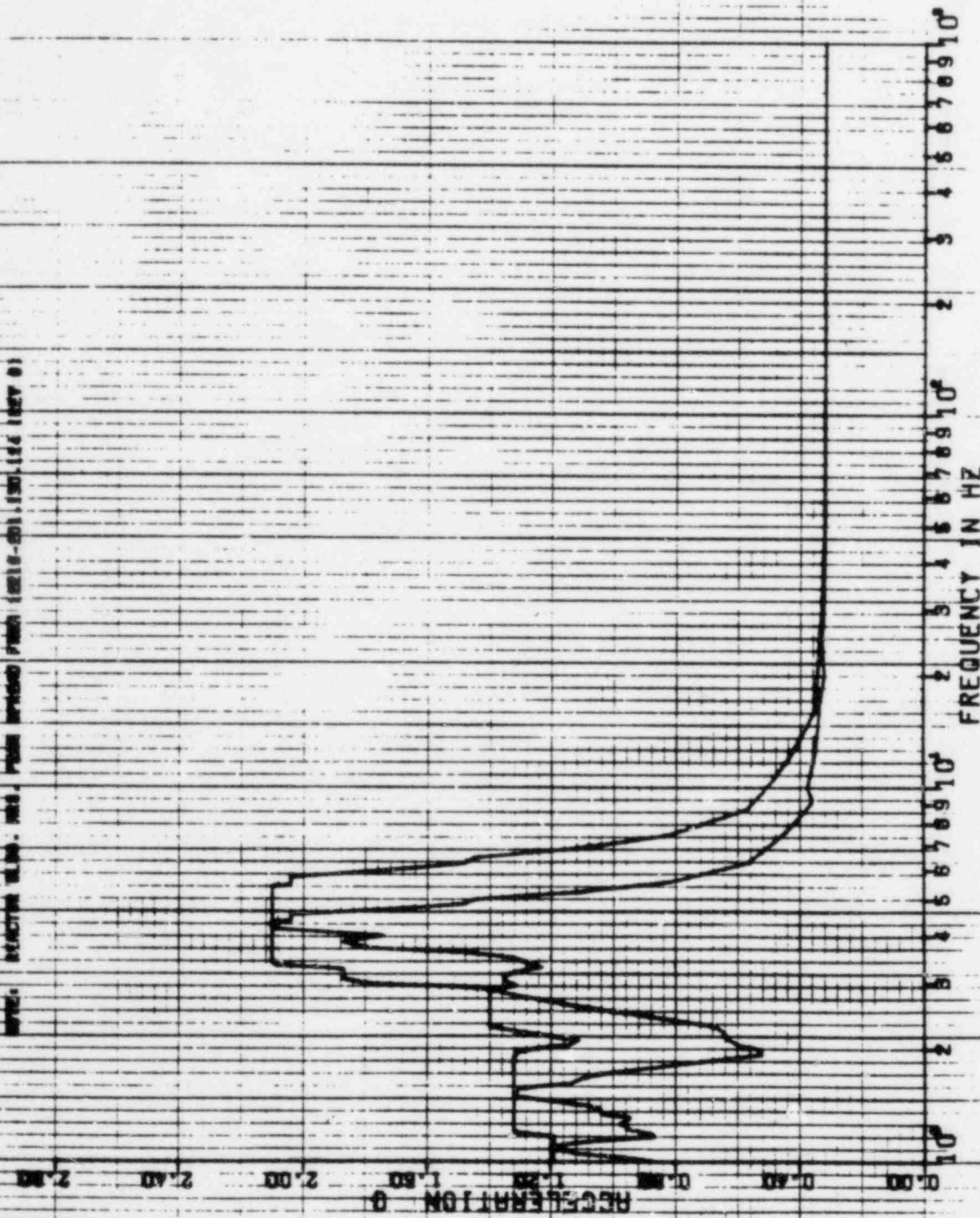
22 APR 1982

31A

K.KAY

DAMPING VALUE = 0.090

PAPER: VER 01 LEV 07  
 MAF WYTE UTILITIES-RDS UNIT 1-CALC12210-WM(C)-S02-1909 REV(0)  
 RRS OF ACC.-REACTOR BLDG-EL-101.00.MASS=18 SE16 MODEL-P&M.PEDESTAL  
 PERK SPREAD -PZL->25Z  
 DISK CURVE SET NO.34  
 1.0 SSE HOR DIRECTION  
 WYTE: INACTIV BLDG. WYS. P&M SPREAD P&M (2218-201.130.114 INCV 0)



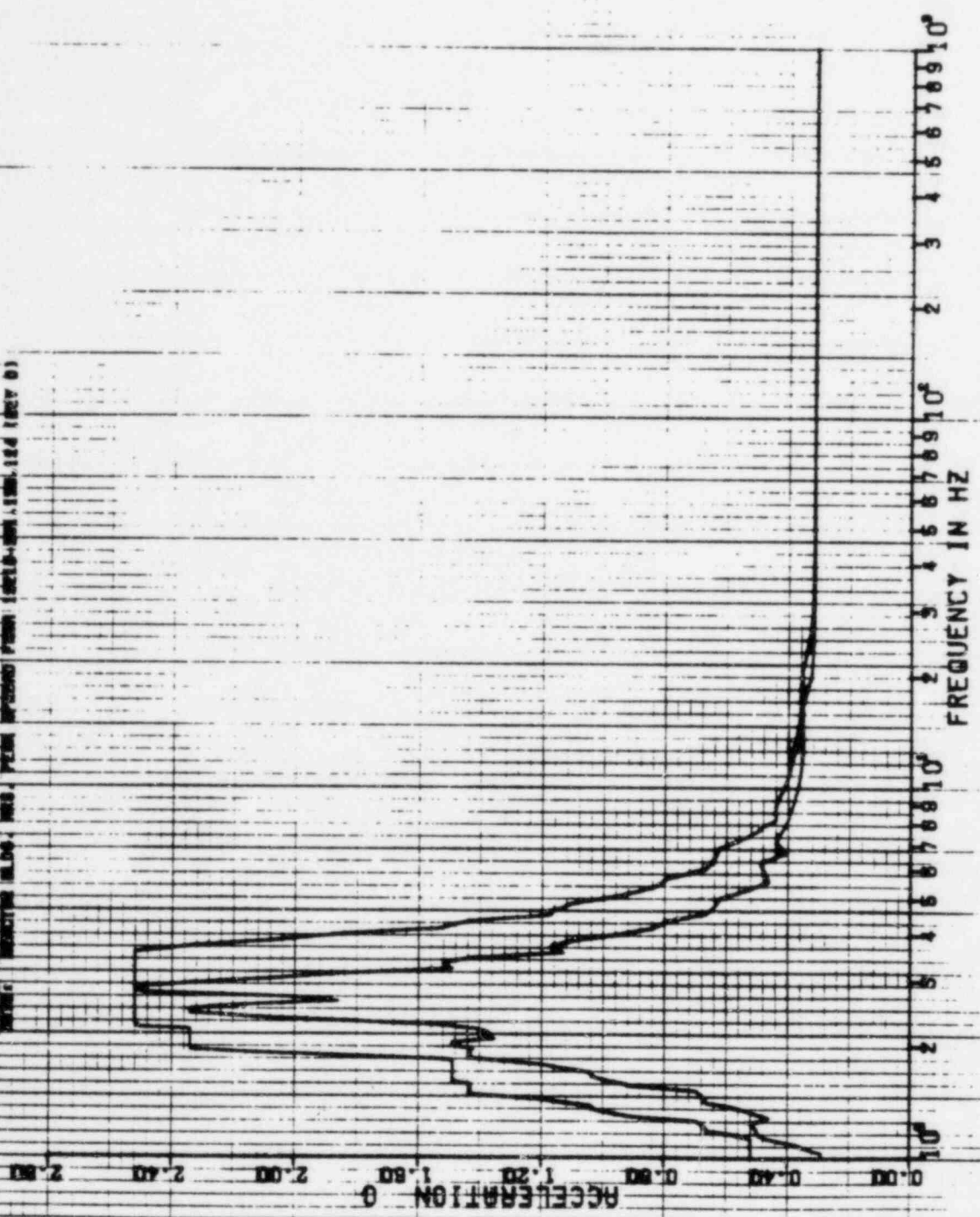
351A

22 APR 1982

K-KAY

DAMPING VALUE = 0.030

PEDESTAL VER 01 LEY 07  
 GULF STATE UTILITIES-883 UNIT 1-CALCIZE10-MNIC)-88E-1903 REV(0)  
 RNS BY REC.-RECTOR BL00.EL=101.00.MASS=19 SE16 MODEL-P5H.PEDESTAL  
 PERK BEVERD -EOL-25Z  
 DISK CURVE SET NO.34  
 1-D SSE VER DIRECTION  
 5SE  
 DATA: INACTIVE BL00. MNS. PERM SPSSNO FROM 19818-19818.184 (REV 0)





22 APR 1982

KL KAY

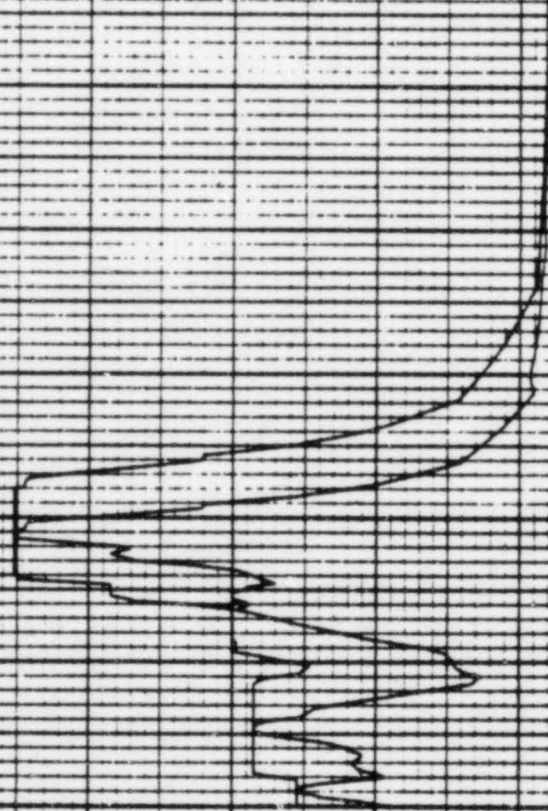
DAMPING VALUE = 0.040

PSPECTRA VER 01 LEV 07  
 GULF STATE UTILITIES-R85 UNIT 1-CALC 12210-NR 13-SOE-1979 REV 01  
 WRS OF ACC. REACTOR BLDG. EL=101.00, MASS=18 SE 15 MODEL-PSM.PEDestal  
 PEAK SPREAD= 202.155V  
 DISK CURVE SET NO.04  
 A.D.55E HDR DIRECTION  
 DATE: REACTOR ALB6, R85, PEAK SPREAD /MOH (2210-20) 130.14 166V.0

DATE: REACTOR ALB6, R85, PEAK SPREAD /MOH (2210-20) 130.14 166V.0

ACCELERATION G  
 0.00 0.40 0.80 1.20 1.60 2.00 2.40 2.80

FREQUENCY IN HZ  
 10<sup>0</sup> 2 5 4 5 6 7 6 9 10<sup>0</sup> 2 5 4 5 6 7 6 9 10<sup>0</sup> 2 3 4 5 6 7 6 9 10<sup>0</sup>





4.7

22 APR 1982

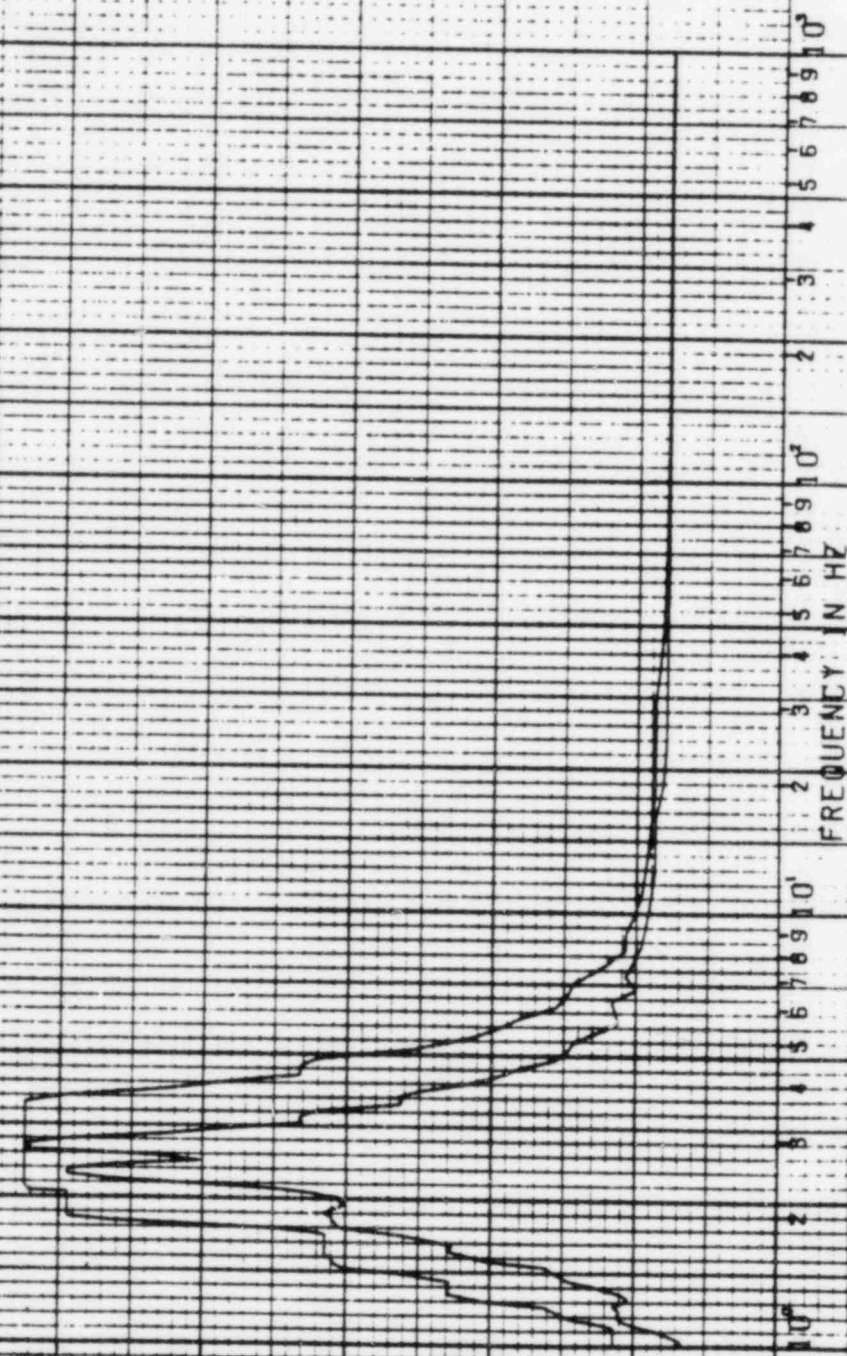
K. KRY

DAMPING VALUE = 0.000

SPECTRA VER 01 LEV 07  
 CULF STAVE UTILITIES-RBS UNIT 1-CALC12210-NM131-SDE-1008 REV 03  
 RBS OF ALL REACTOR BLDG. EL-101-00. MASS-18 SEIS MODEL-PSM, PEDESTAL  
 PEAK SPREAD - 20V, 1.25V  
 DISK CURVE SET MDLBA  
 .D 55E VER DIRECTION

NOTE: REACTOR BLDG. PKG. PEAK SPREAD FROM 14280-200 (50.14 100V b)

0.000 0.001 0.010 0.100 1.000 10.000 100.000  
 RECELERATION G



10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup>  
 1 2 3 4 5 6 7 8 9 10  
 FREQUENCY IN HZ

PSPECTRA VER 01 LEV 07

22 APR 1982

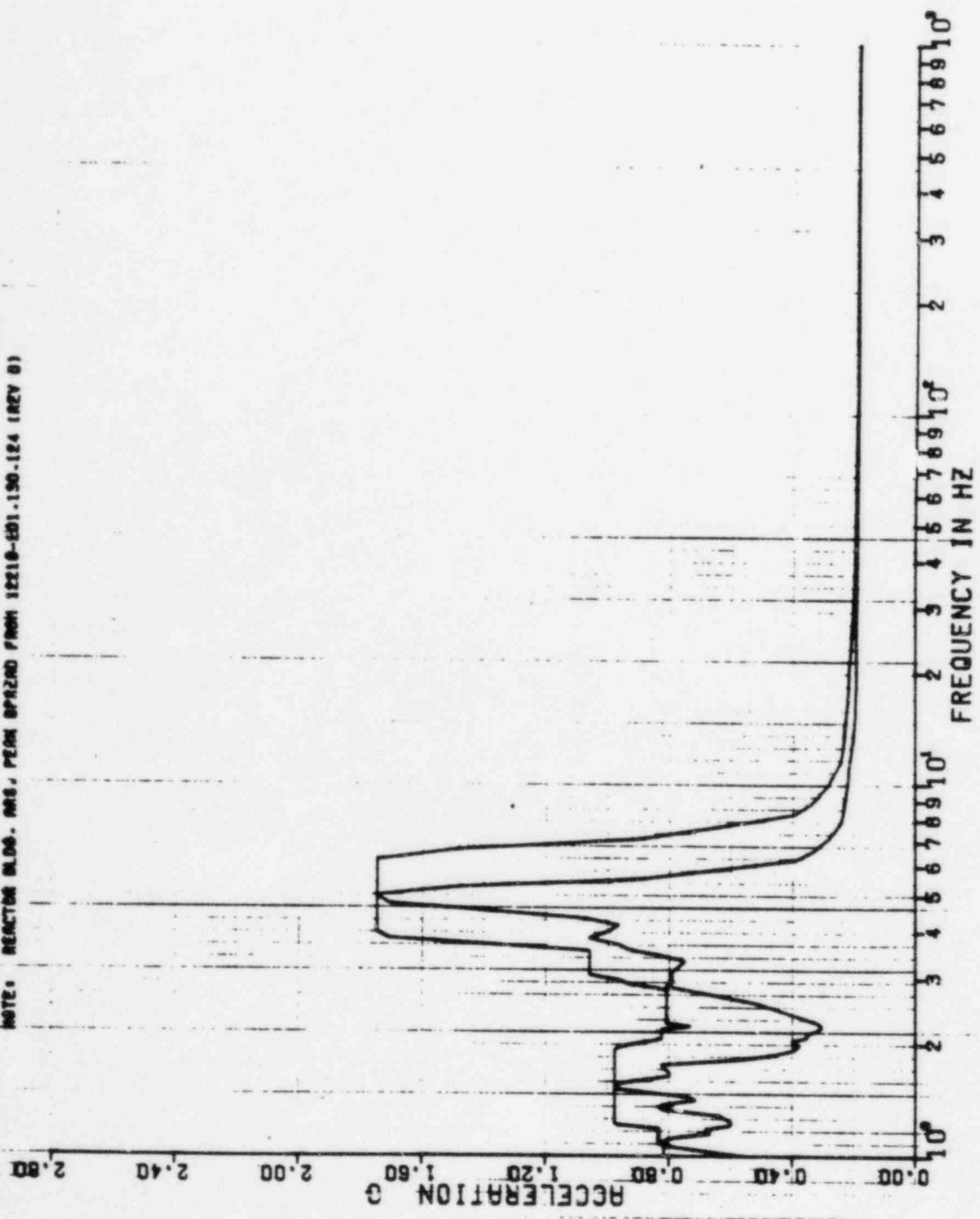
DULF STATE UTILITIES-REGS UNIT 1-CALC(12210-NR(C)-SQE-1909 REV(0)  
RRS OF ACC.-REACTOR BLDG.-EL-117.00.MASS=19 SETS MODEL-PSM.PEDESTAL  
PEAK SPREAD -20Z.+25Z  
08E

K.KAY

DAMPING VALUE = 0.020

DISK CURVE SET NO.35 0.5 55E HOR DIRECTION

NOTE: REACTOR BLDG. RRS, PEAK SPREAD FROM 12210-191.190-124 (REV 8)



2.7 A

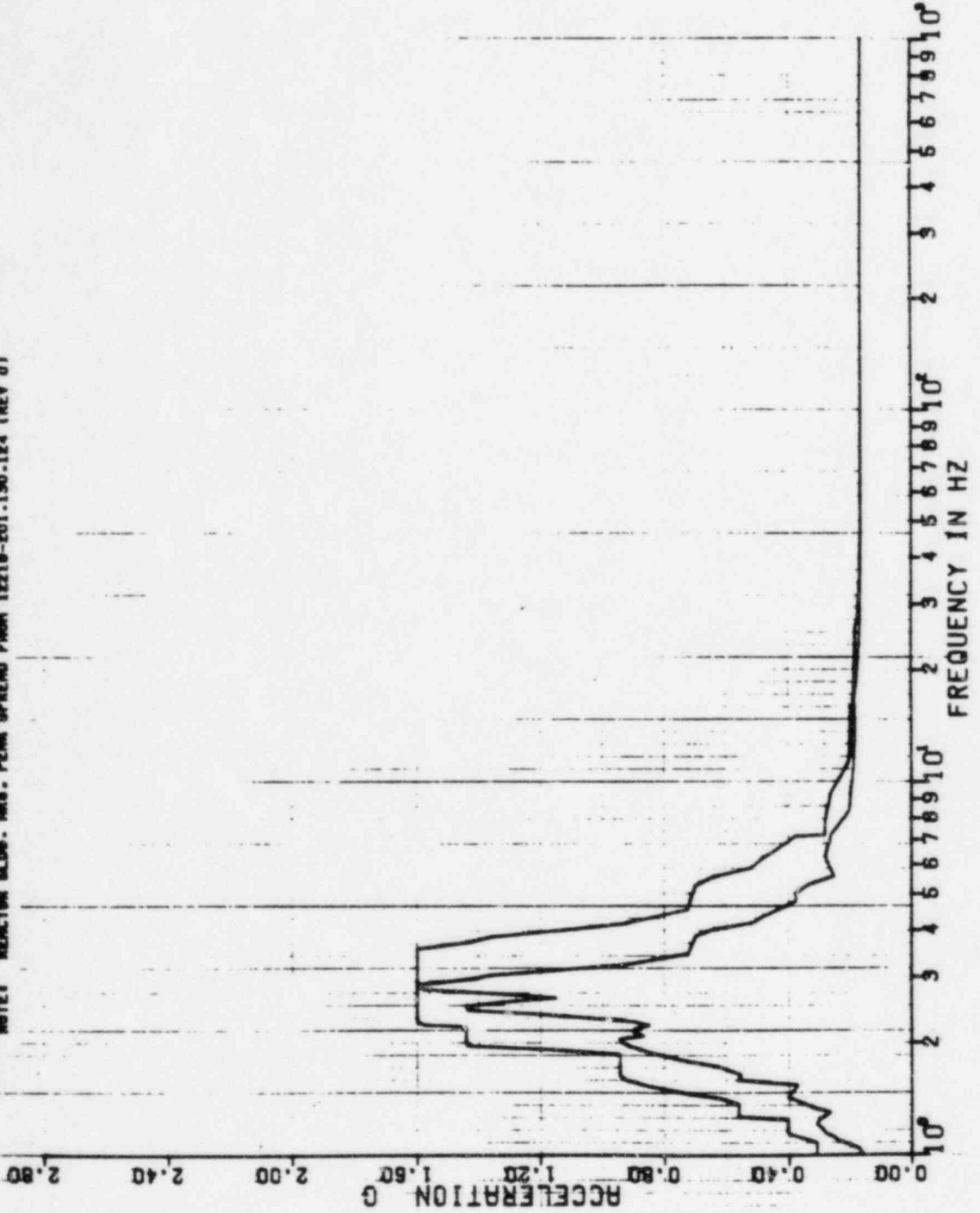
22 APR 1982

K. KAY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 07  
 GULF STATE UTILITIES-R08 UNIT 1-CALC12210-NR(C)-50E-1909 REV(0)  
 NRS OF ACC.-REACTOR BLDG.-EL=117.00.MASS=19 SETS MODEL-PSM.PEDESTAL  
 PEAK SPREAD -20%.+25%  
 DISK CURVE SET NO.95 0.5 SSE VER DIRECTION

NOTE: REACTOR BLDG. R08. PEMS SPREAD FROM 12210-C01.150-124 (REV 0)



574

8 FEB 1985

X. KRY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 08  
GULF STATES UTILITIES-RDS UNIT 1-CALC(12210-MM(C))-SDE-1983 REV11)  
RKS OF ACC.-REACTOR BLDG.-EL=117.00, HAS66-19 5E16 MODEL-76W  
PEAK SPREAD -20Z +25Z

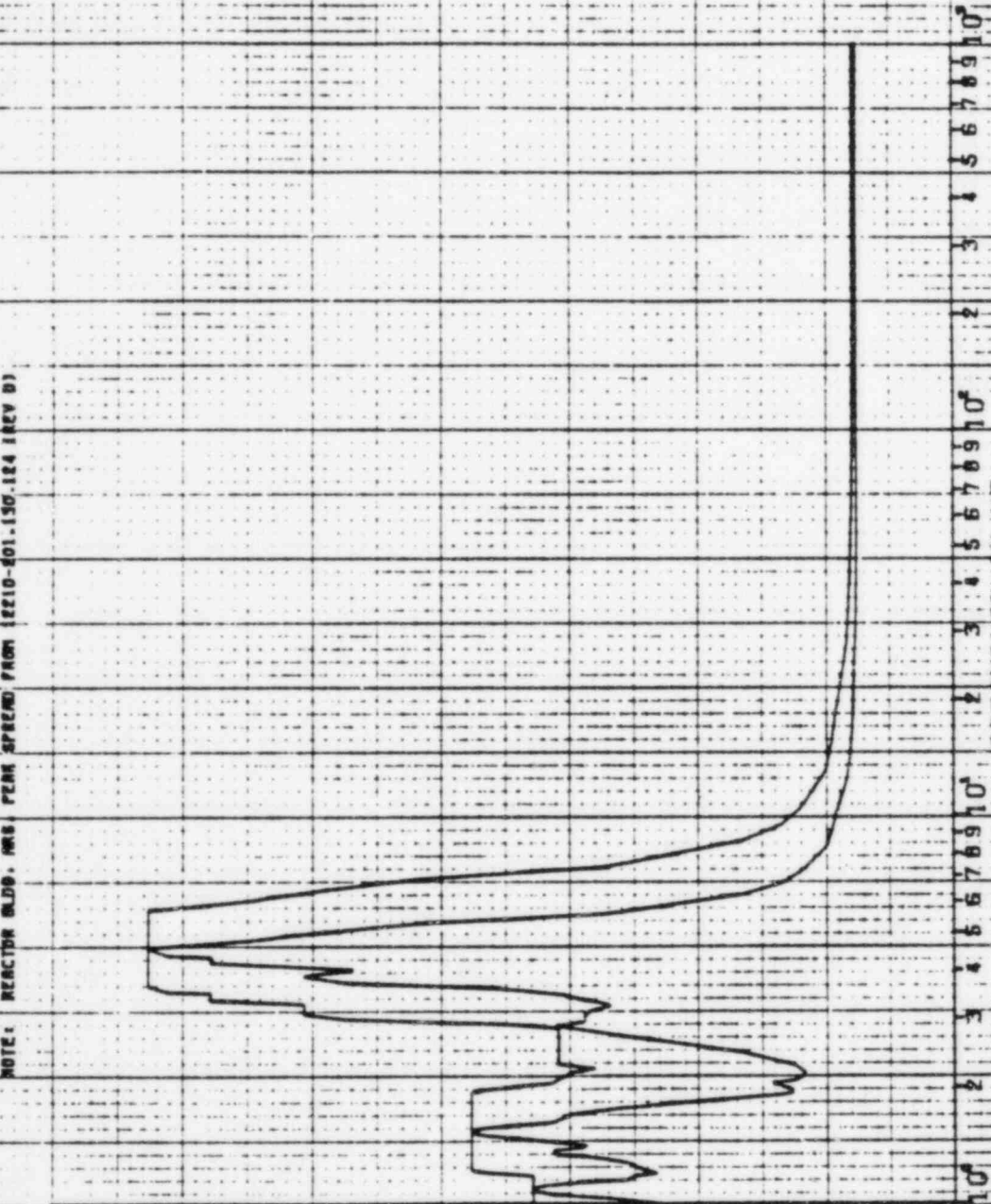
1.0 55E HDR DIRECTION

NOTE: REACTOR BLDG. HAS PEAK SPREAD FROM 12210-501.150-124 (REV D)

DISK CURVE SET NO.36

ACCELERATION

FREQUENCY IN HZ





2.5A

8 FEB 1983

X. KRY

DAMPING VALUE = 0.020

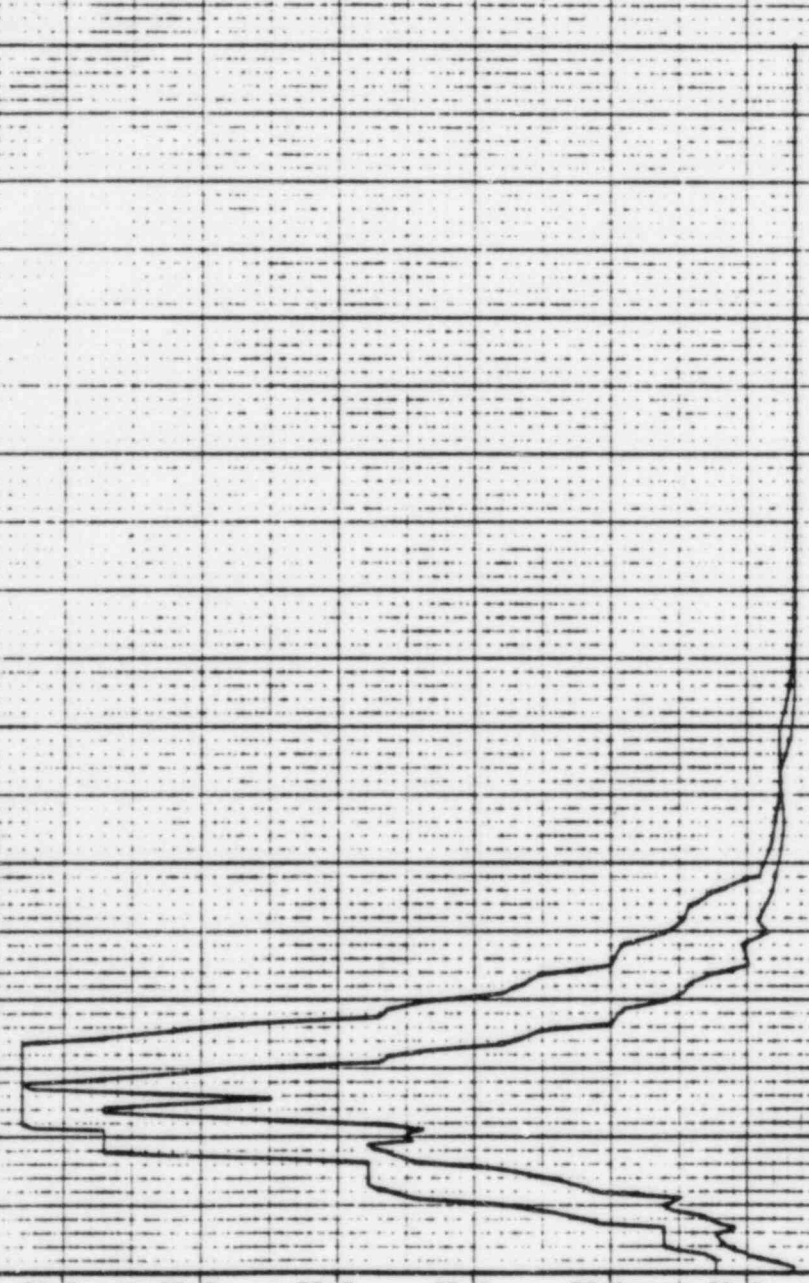
PSPECTRA VER D1 LEV 08  
CULF STATES UTILITIES-RBS UNIT 1-CALC12210-MMC1-50E-1903 REV117  
RRS OF ACC. - REACTOR BLDG. .EL=117.00.MASS=19 6E16 MODEL-P6M  
PEAK SPREAD -20% +25Z

1.0 SSE VER DIRECTION

DISK CURVE SET NO.36  
NOTE: REACTOR BLDG. RBS PEAK SPREAD FROM 12210-101.130.124 (REV D)

ACCELERATION G

FREQUENCY IN HZ





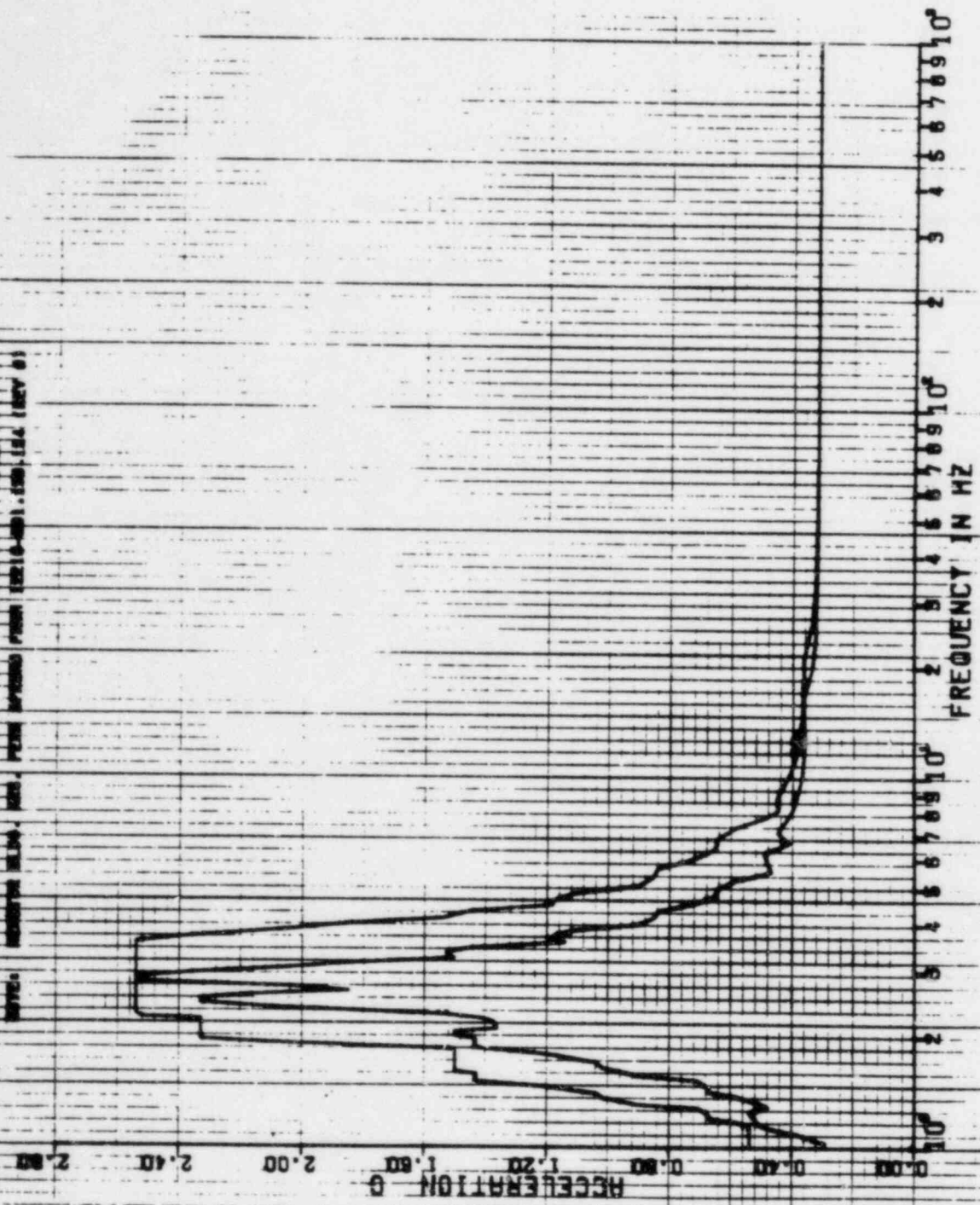
211A

22 APR 1962

K.KAY

DAMPING VALUE = 0.030

PSECTRA VER 01 LEV 07  
 DULY STATE UTILITIES-RBB UNIT 1-CMLC12210-WHIC)-SEE-1903 REV(0)  
 RRS OF N.C.-REACTOR BLDG-EL=117.00, RRB8=19 SE16 MODEL-PSM, PEDESTAL  
 PERM. SPINNO -207, 25Z  
 DISK CURVE SET NO. 36  
 1.0 GSE VER DIRECTION  
 NOTE: REACTOR BLDG. VIB. FROM REACTOR FROM 1910-1911.100.154 (REV 0)





4-0 A

22 APR 1982

K. KRY

DAMPING VALUE = 0.010

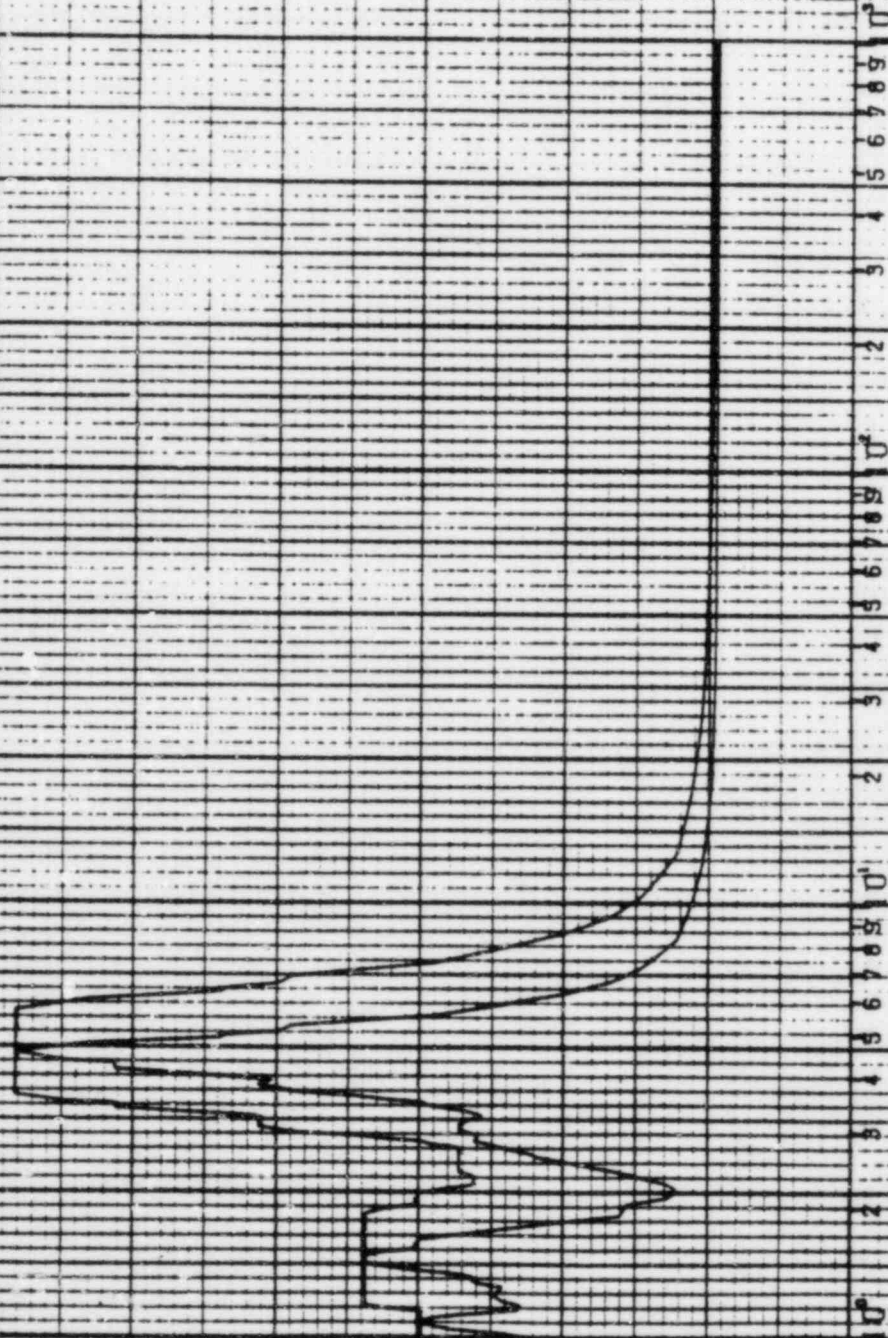
SPECTRA VER 01 LEV 07  
 CULY STATE UTILITIES-KBS UNIT CALL 12210-NM (1)-SUE-305-REV 01  
 RMS OF ACC. REACTOR BLOC. EL. 17.00, MASS. 9 SEIS. MODEL PSM/PEDESTAL  
 PEAK SPREAD .207 1.257  
 DISK CURVE SET NO. 36

1.0 55E HDR DIRECTION

NOTE: REACTOR BLOC. HAS PEAK SPREAD FROM 12210-20.1301 14 REV 0

ACCELERATION G

FREQUENCY IN HZ





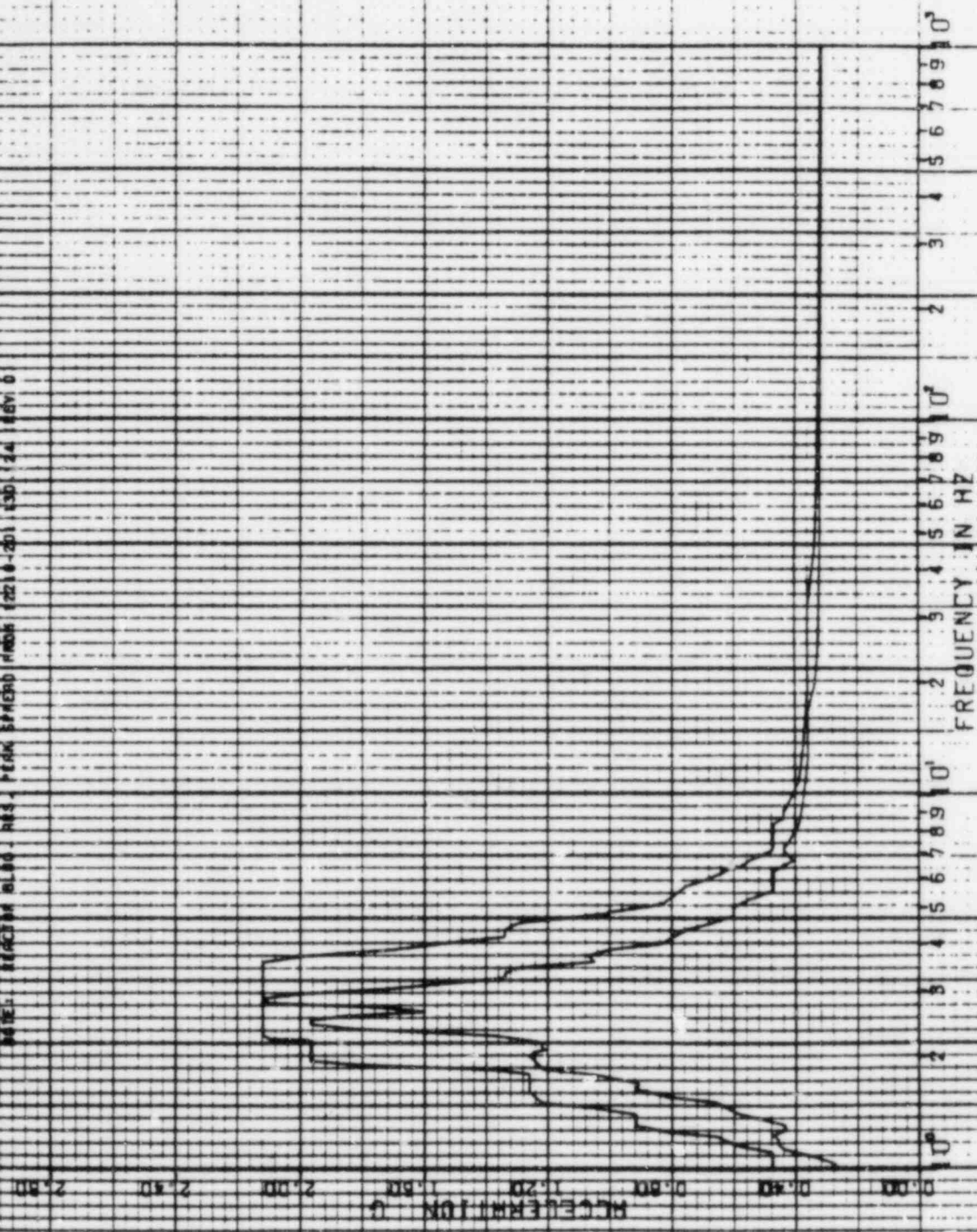
74

22 APR 1982

K. KAY

DAMPING VALUE = 0.010

SPECTRA VER 01 LEV 07  
 CULF STATE UTILITIES SUBS UNIT - ONLY 12210-UNIT (-501-1903 REV 0)  
 RMS OF ACC. REACTOR BLOC. EL. 17.00, MASS = 0 SE 5 MODEL - PSM, PENESTAL  
 PEAK SPREAD 1.202, 95%  
 DISK CURVE SET NO. 36  
 DIRECTION VER DIRECTION  
 1.0 SSE  
 WIND: MAGNUM 0100, RMS, PEAK SPREAD FROM (2210-201) 130, 1.24 REV 0



PSPECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-RBS UNIT 1-CALC(12210-MM(C)-S0E-1903 REV(0)  
RBS OF ACC.-REACTOR BLDG. EL-133.00, MASS=20 SEIS MODEL-PSM, PEDESTAL  
PEAK SPREAD -20%, +25Z

K. KAY

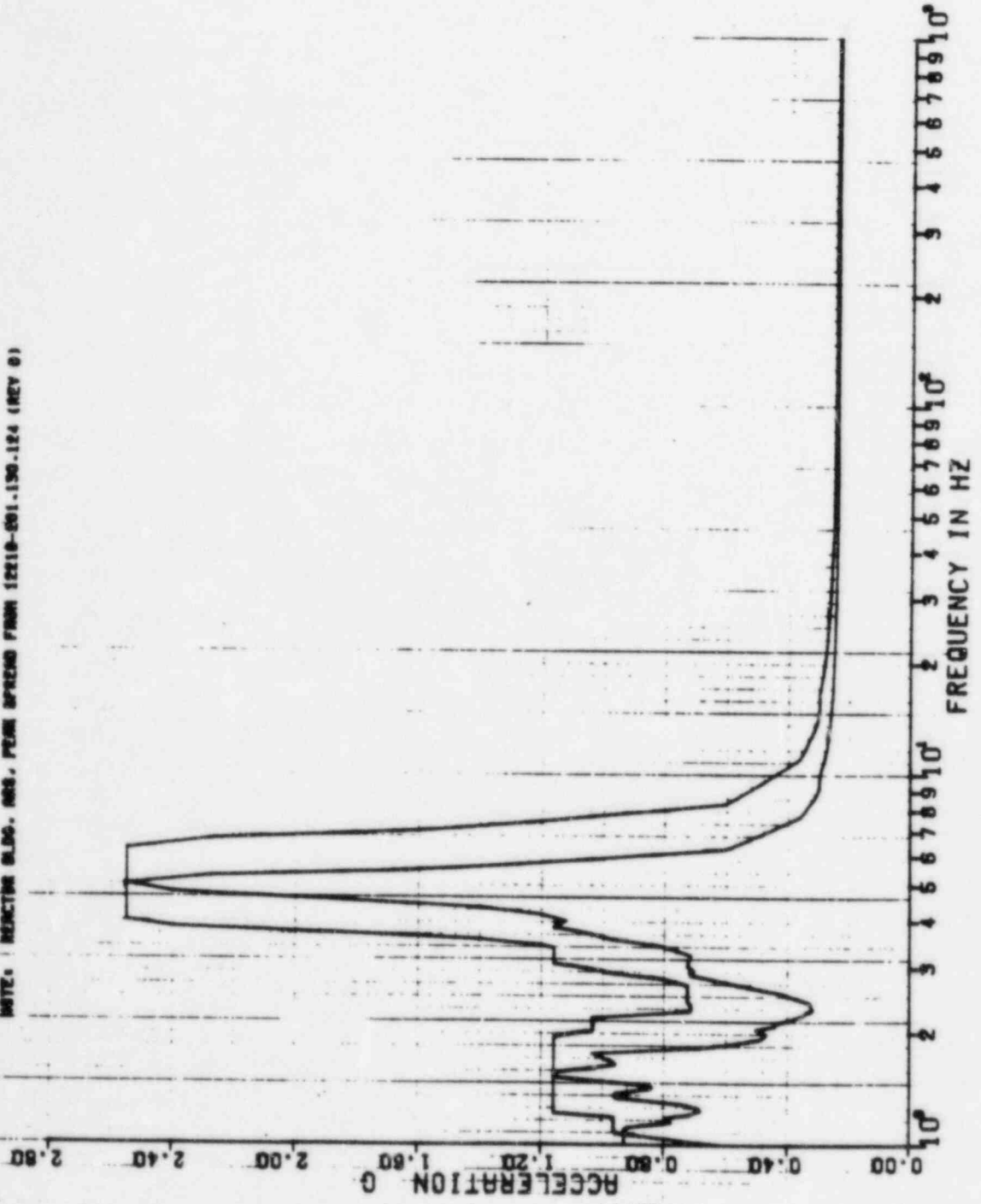
DAMPING VALUE = 0.020

DISK CURVE SET NO. 37

6.5 SSE

HOR DIRECTION

NOTE: REACTOR BLDG. RBS. PEAK SPREAD FROM 12210-091-130-124 (REV 0)



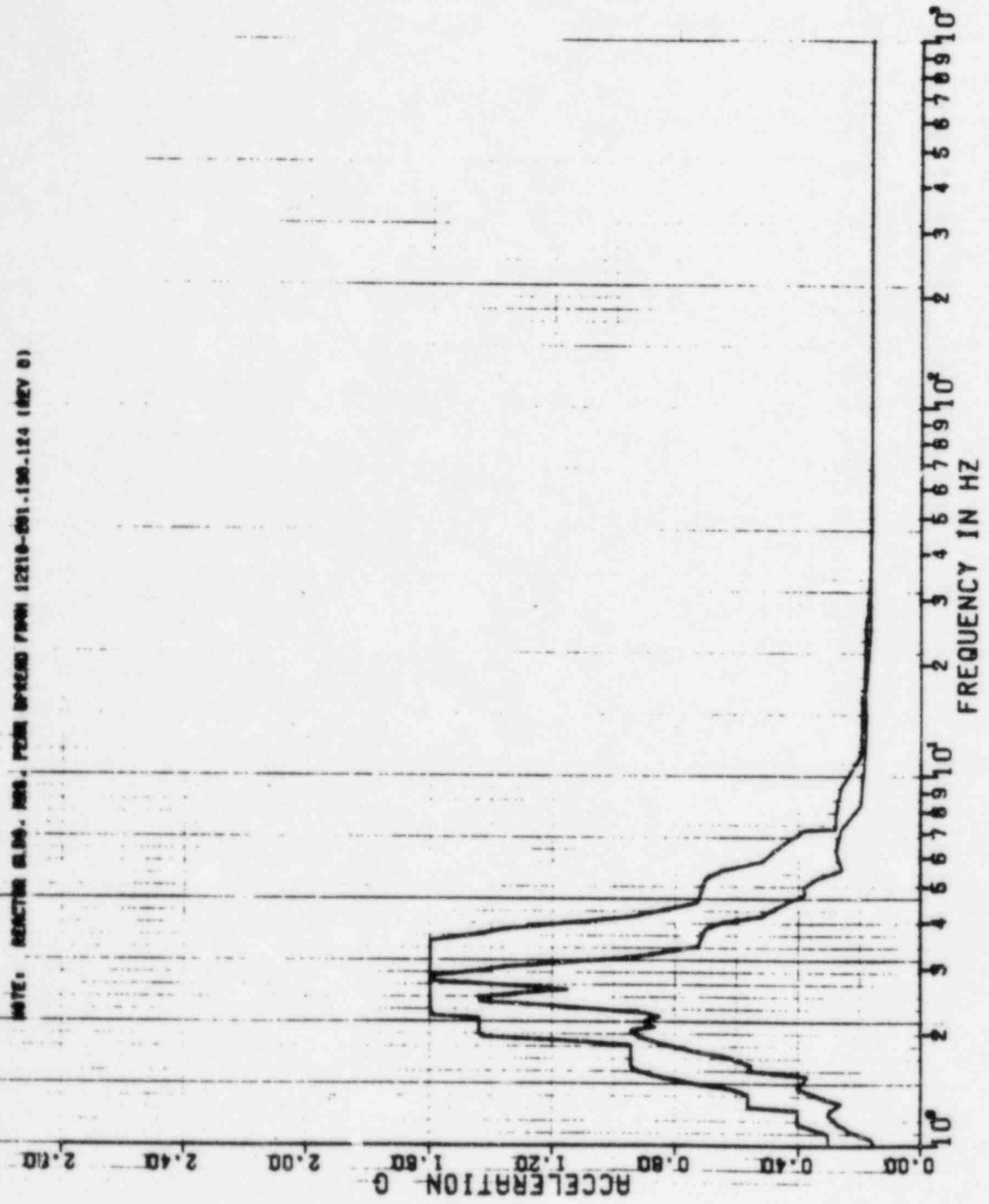
2.41A

22 APR 1962

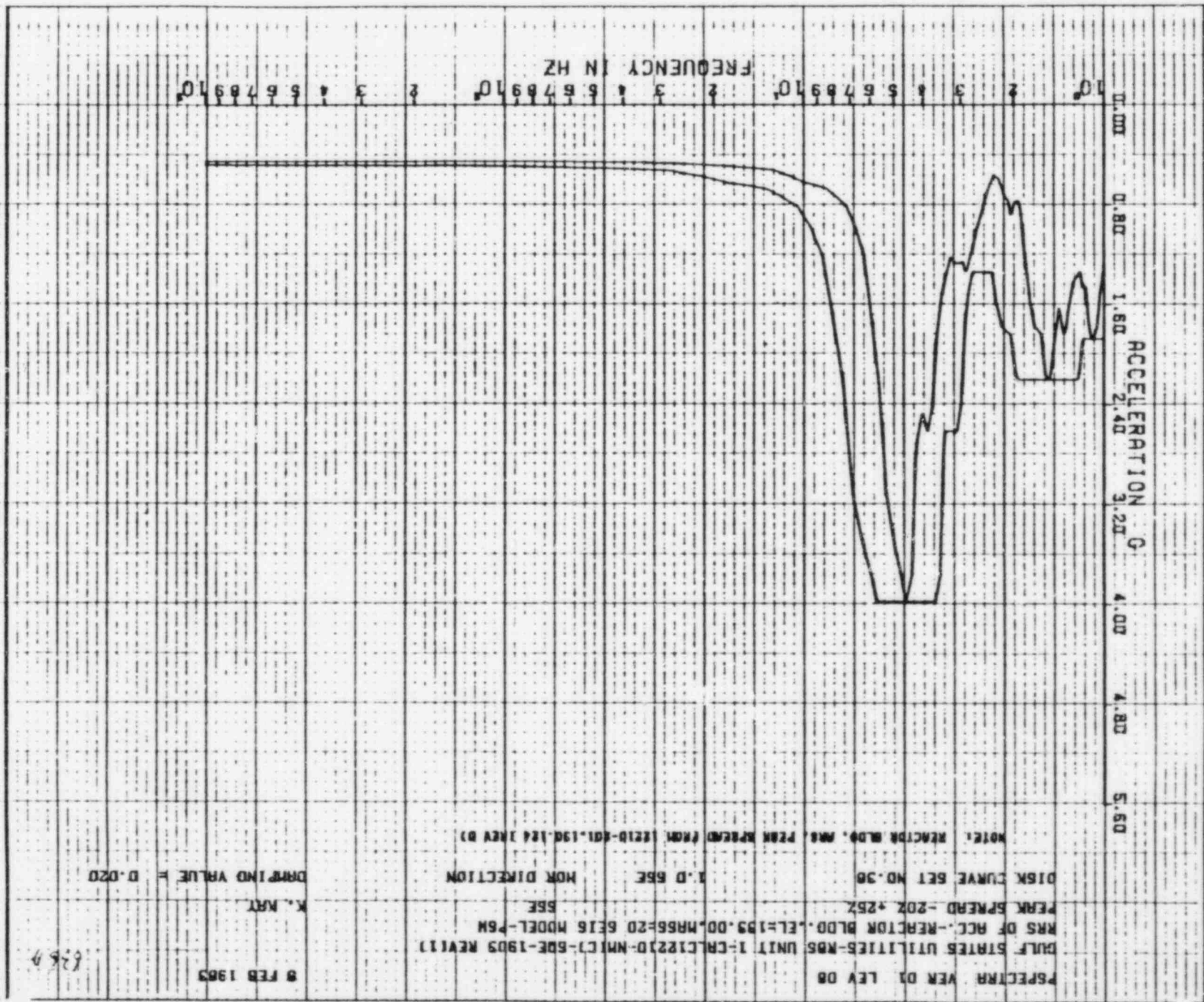
K.KAY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 07  
 GULF STATE UTILITIES-RBB UNIT 1-CALC.12210-NR(C)-50E-1903 REV10)  
 RRS OF ACC.-REACTOR BLDG.-EL-199.00.MASS=20 SC16 MODEL-PSM.PEDESTAL  
 PEAK SPREAD -20%.+25Z  
 DISK CURVE SET NO.37  
 0.5 SSE VER DIRECTION  
 NOTE: REACTOR BLDG. MASS FROM SPREAD FROM 12210-001.190-124 (REV 0)



REF 89



DRAWING VALUE = 0.020

K. MAT

9 FEB 1983

6364

SPECTRA VER 01 LEV 08  
 GULF STATES UTILITIES-R06 UNIT 1-CALC1220-NM(C)-SDE-1905 REV11  
 RMS OF ACC.-REACTION BLDG. EL=103.00, MR66=20 6E16 MODEL-F5M  
 PEAK SPREAD -20% +25%  
 DISK CURVE SET NO.36  
 1.0 55E  
 HOR DIRECTION  
 NOTE: REACTOR BLDG. RMS PEAK SPREAD FROM (2210-001.190.124 3REV 0)



637A

6 FEB 1965

K. KRY

DAMPING VALUE = 0.020

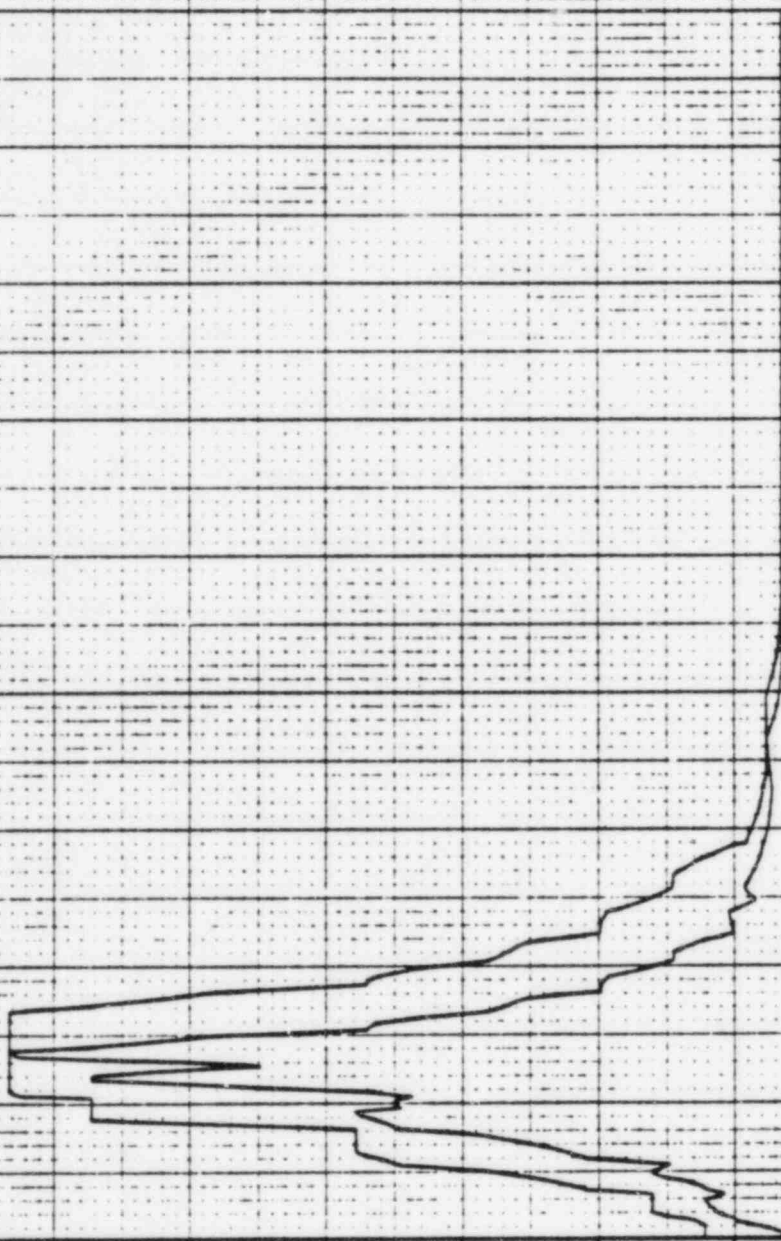
7SPECTRA VER 01 LEV 08  
 DULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(CJ)-58E-1803 REV(1)  
 RRS OF ACC.-REACTOR BLDG.-EL=189.00-NR56E20 5E16 MODEL-76W  
 PEAK SPREAD -20Z +25Z  
 DISK CURVE SET NO.38

1-D 55E VER DIRECTION

NOTE: REACTOR BLDG. MAG. PEAK SPREAD FROM 12210-201.150-124 18CY D1

ACCELERATION 0 0.50 1.00 1.50 2.00 2.50 3.00 3.50

FREQUENCY IN HZ 10<sup>0</sup> 2 3 4 5 6 7 8 9 10<sup>1</sup>



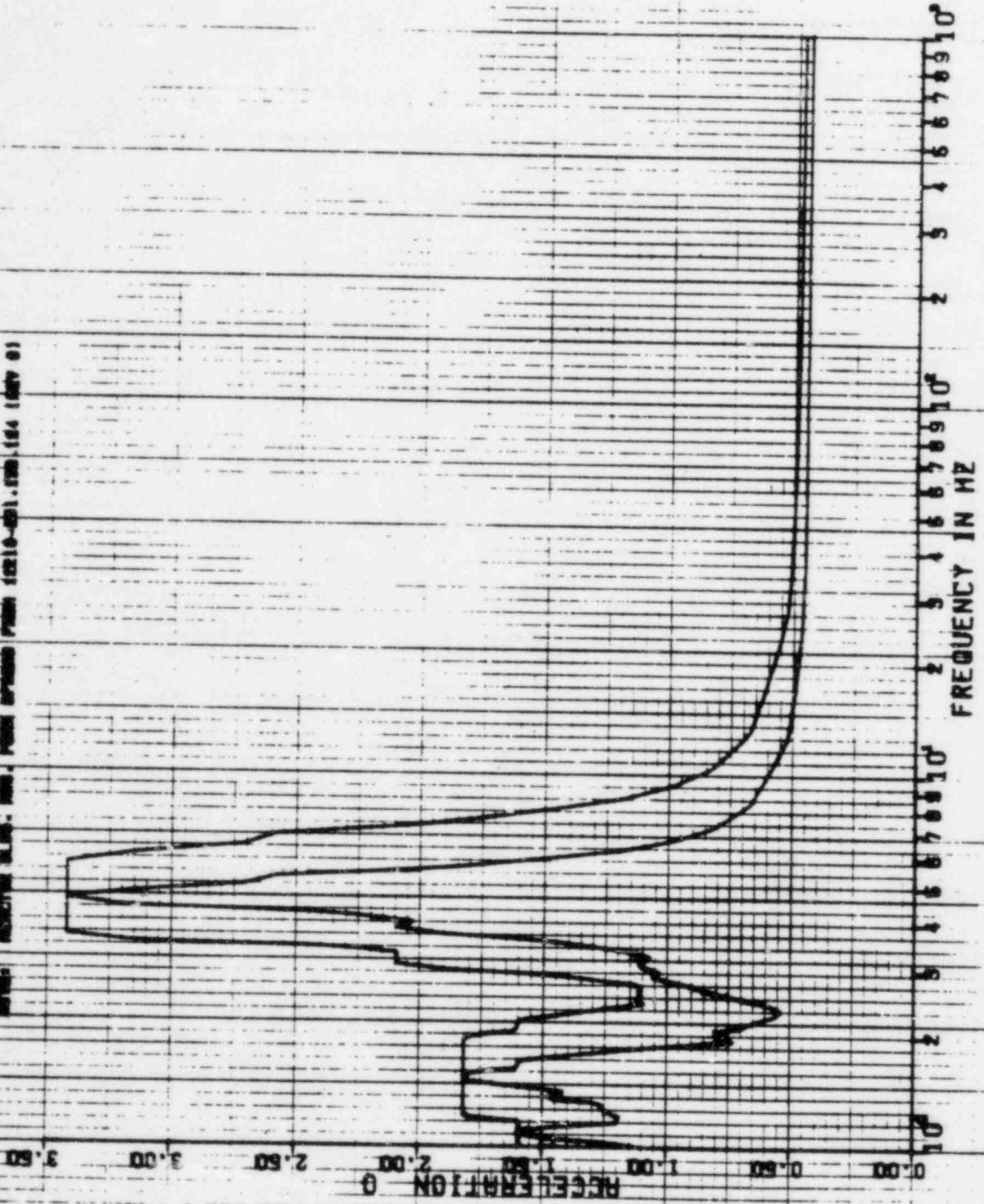
22 APR 1962

314A

K-KAY

DAMPING VALUE = 0.030

SPECTRA VER. 01 LEV 07  
 GULF STATE UTILITIES-RBS UNIT 1-CALCIZZ10-WM(C)-SSE-1963 REV(0)  
 RBS OF REC.-REACTOR BLDG.-EL-139.00.NASS-20 SEIS MODEL-PSX.PEDESTAL  
 PEAK SPEED -20% .75Z  
 DISK CURVE SET NO.36  
 1.0 SSE HOR. DIRECTION  
 FROM INSTRUMENT BLDG. NO. 100. FROM BRIDGE FROM INSTR. BLDG. (64 (REV 0))

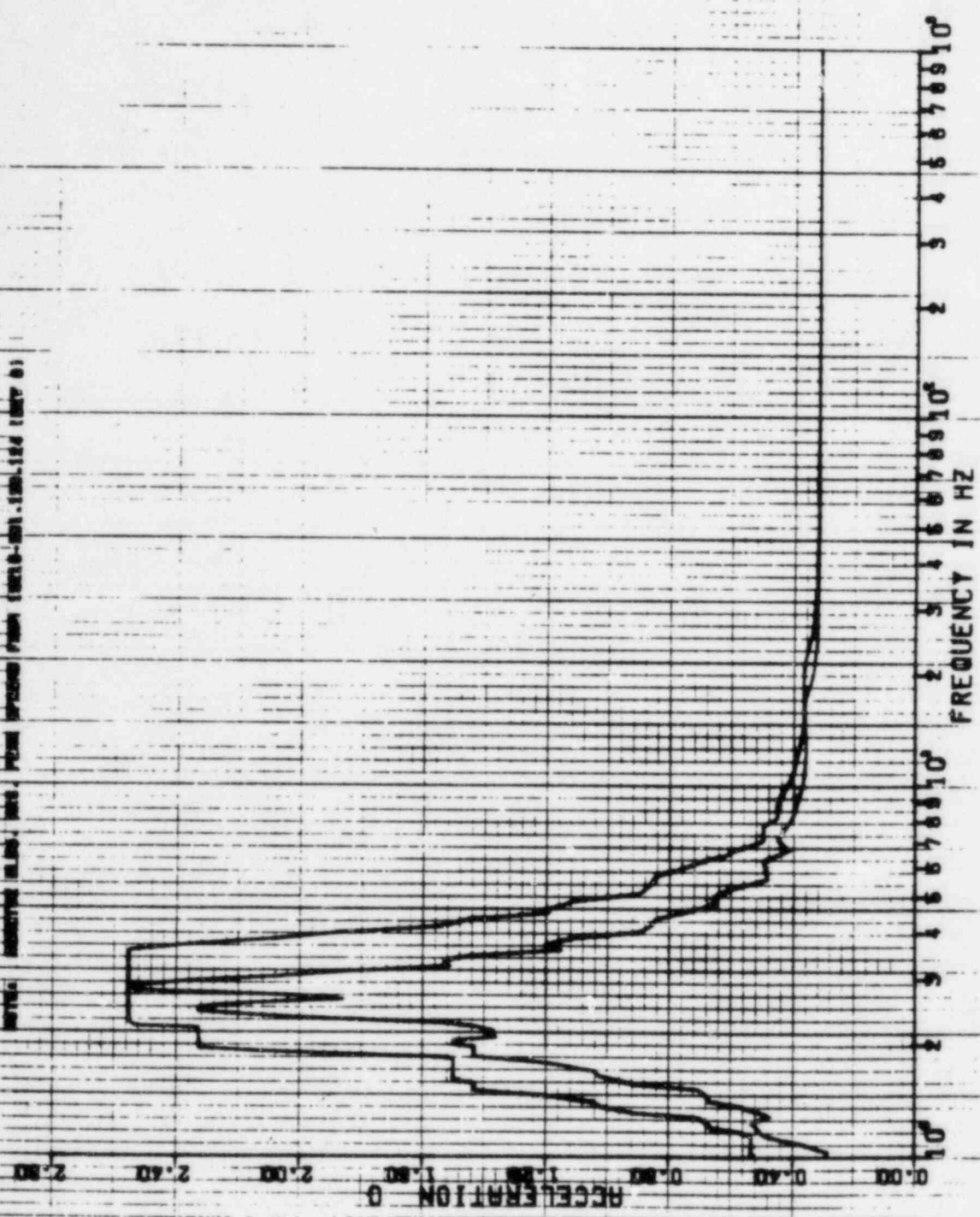


22 APR 1962

K. KAY

DAMPING VALUE = 0.030

SPECTRA VER 01 LEV 07  
 GULF STATE UTILITIES-RBB UNIT 1-CALCULATED-WRMC-80E-1909 KEY 10  
 RRS OF REC.-REACTOR BLDG.-EL-198.00.NASS-20 SE16 MODEL-PSW.PEDESTAL  
 PEAK SPREAD:-20X.25X  
 DISK CURVE SET NO.58  
 1.0 SSE VER DIRECTION  
 NOTES: INDICATED IN LOG. INFO. PANEL SPREADS FROM (INFO-801.150-154 (REV 8))





A-10A

22 APR 1987

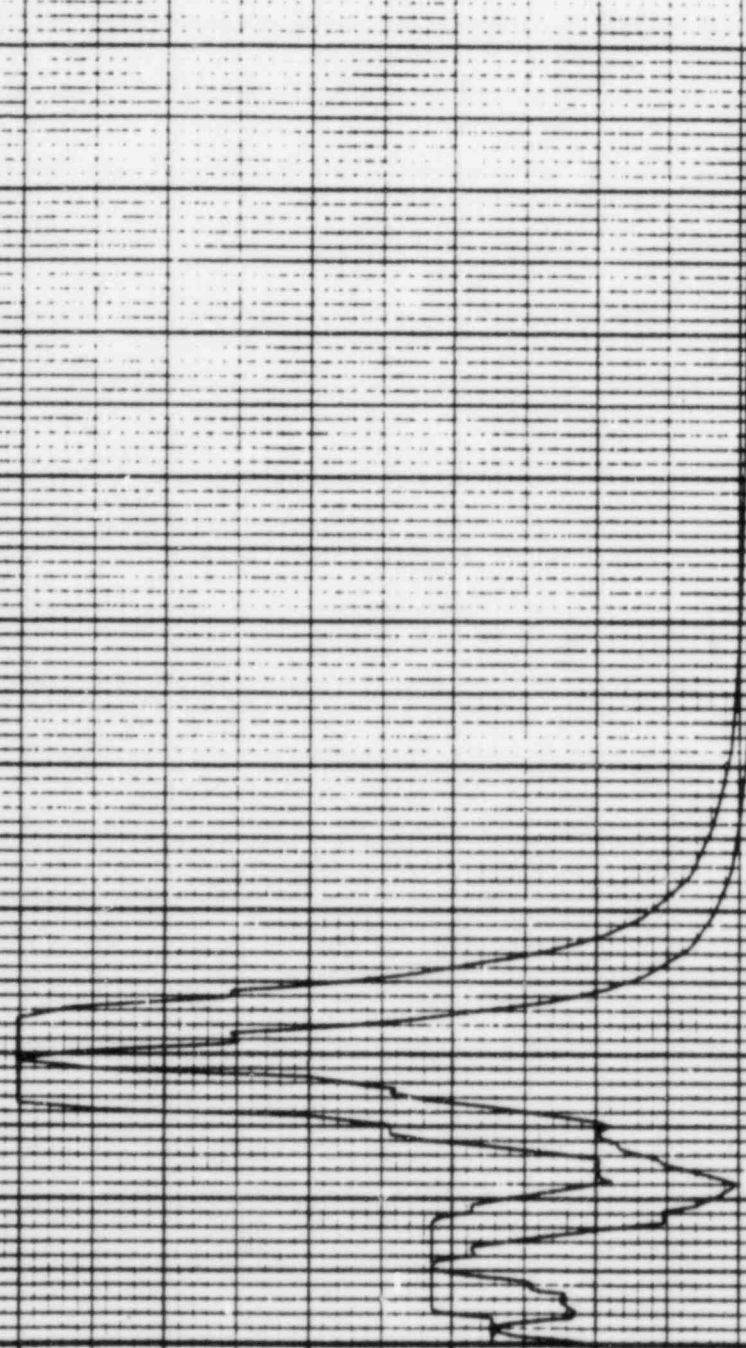
K-KAY

DAMPING VALUE = 0.010

PSEPCINA VER 0 LEV 07  
 GULF STATE UTILITIES-RBS ON -CALL 22 0-MINUTE -500-1903 REV 10  
 RES OF MCC -REACTOR BLDG. EL=133.00, MASS=20 SE S MODEL-PSM, PEDESTAL  
 PEAK SPREAD =207.257  
 DISK CURVE SE 00.30  
 .0 SSE HOR DIRECTION  
 NOTE: REACTOR BLDG. HAS PEAK AHEAD /MOR 223.8-201 USD 13A REV 01

ACCELERATION 0 0.50 1.00 1.50 2.00 2.50 3.00 3.50

0 1 2 3 4 5 6 7 8 9 10  
 0 1 2 3 4 5 6 7 8 9 10  
 0 1 2 3 4 5 6 7 8 9 10  
 FREQUENCY IN HZ





7714

22 APR 1982

K. KRY

DAMPING VALUE = 0.040

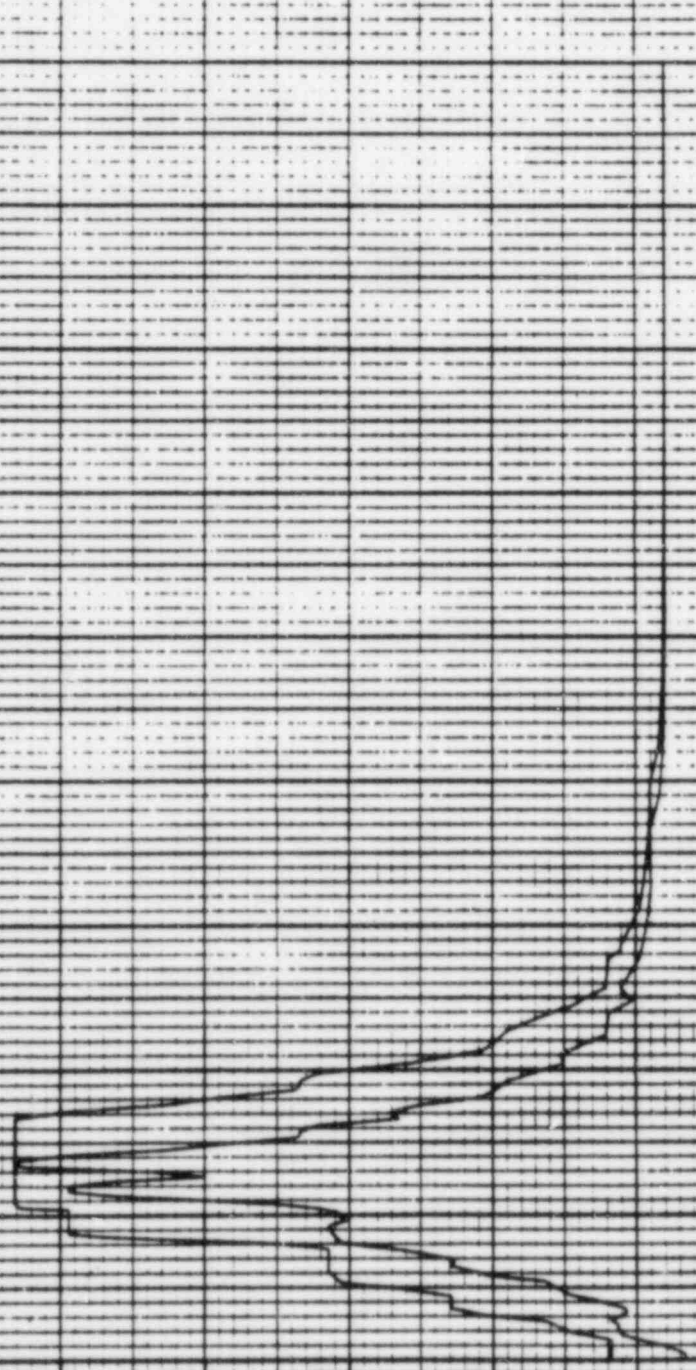
SPECTRA VER D1 LEV 07  
CULT STATE UNIV RES-BBS UNIT 1 CALLEZZI-D-507-1908 REV 00  
WRS OF ACC-REACTOR BLDG. EL-188-DD. MASS=20 SEIS MODEL-PSM.PEDESTAL  
PEAK SPREAD 1.0V. 25V  
SEE

0-DI SSE VER DIRECTION

DISK CURVE SET NO. 38

NOTE: REACTOR ALSO HAS PEAK SPEED FROM 220-400 (SD-124 INCH D)

ACCELERATION 0  
0.00X  
0.10X  
1.00X  
1.00X  
2.00X  
2.00X  
2.00X  
2.00X



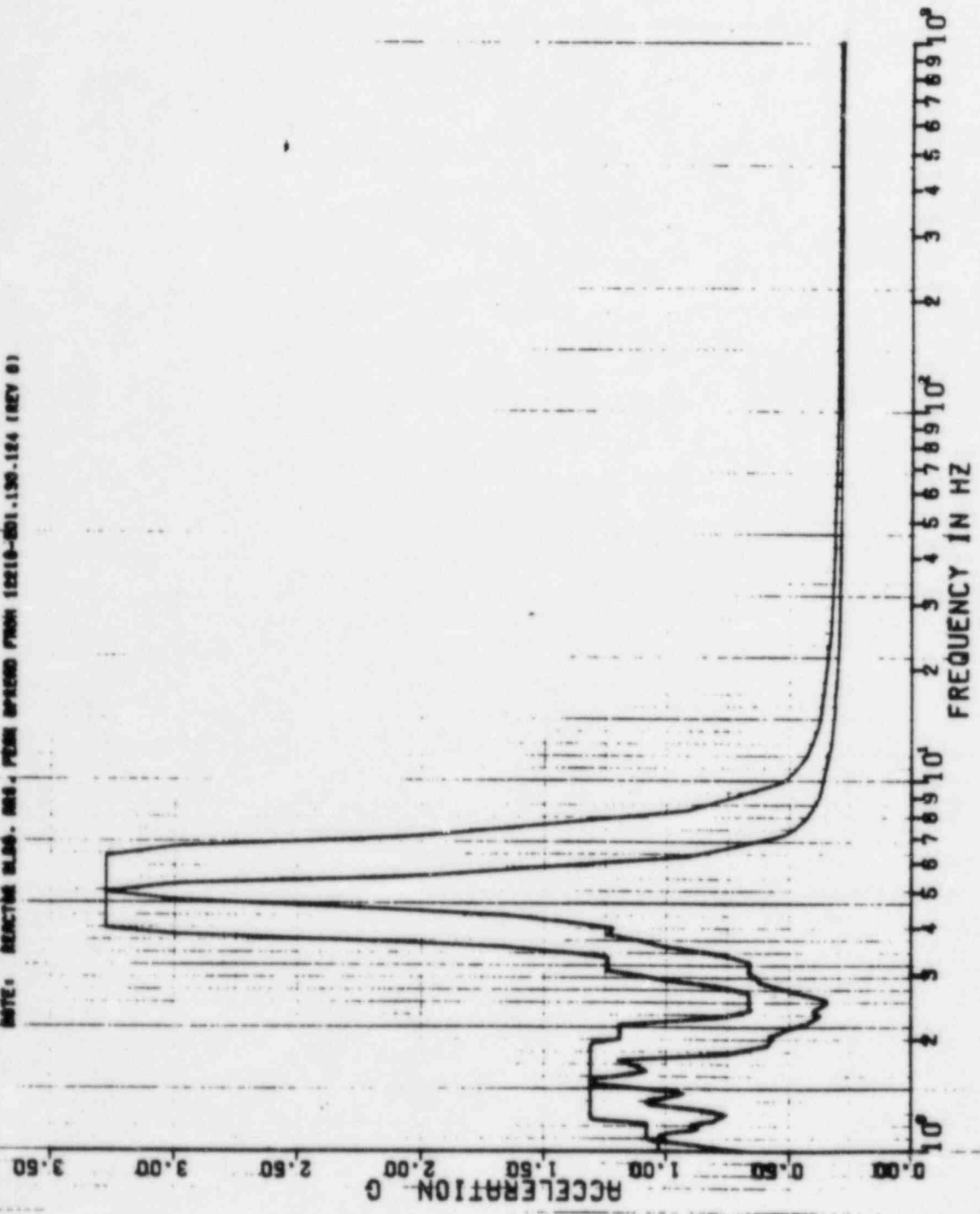
10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup>  
FREQUENCY IN HZ

22 APR 1982

K. KAY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 07  
 OULF STATE UTILITIES-RBS UNIT 1-CALC12210-NH(C)-SQE-1903 REV10)  
 RRS OF ACC.-REACTOR BLDG-EL=147.00.MASS=21 SEIS MODEL-P6M,PEDESTAL  
 PEAK SPREAD -20%+25Z  
 OBE  
 DISK CURVE SET NO.39  
 0.5 SSE MOR DIRECTION  
 NOTE: REACTOR BLDG. RBS. FROM SPREAD FROM 12210-001.130-184 (REV 0)



P6PECTRA VER 01 LEV 07

22 APR 1982

DULF STATE UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(0)  
RBS OF ACC.-REACTOR BLDG.EL=147.00.MASS=21 SEIS MODEL-PSM.PEDESTAL  
PEAK SPREAD -20%.+25% OBE

K.KAY

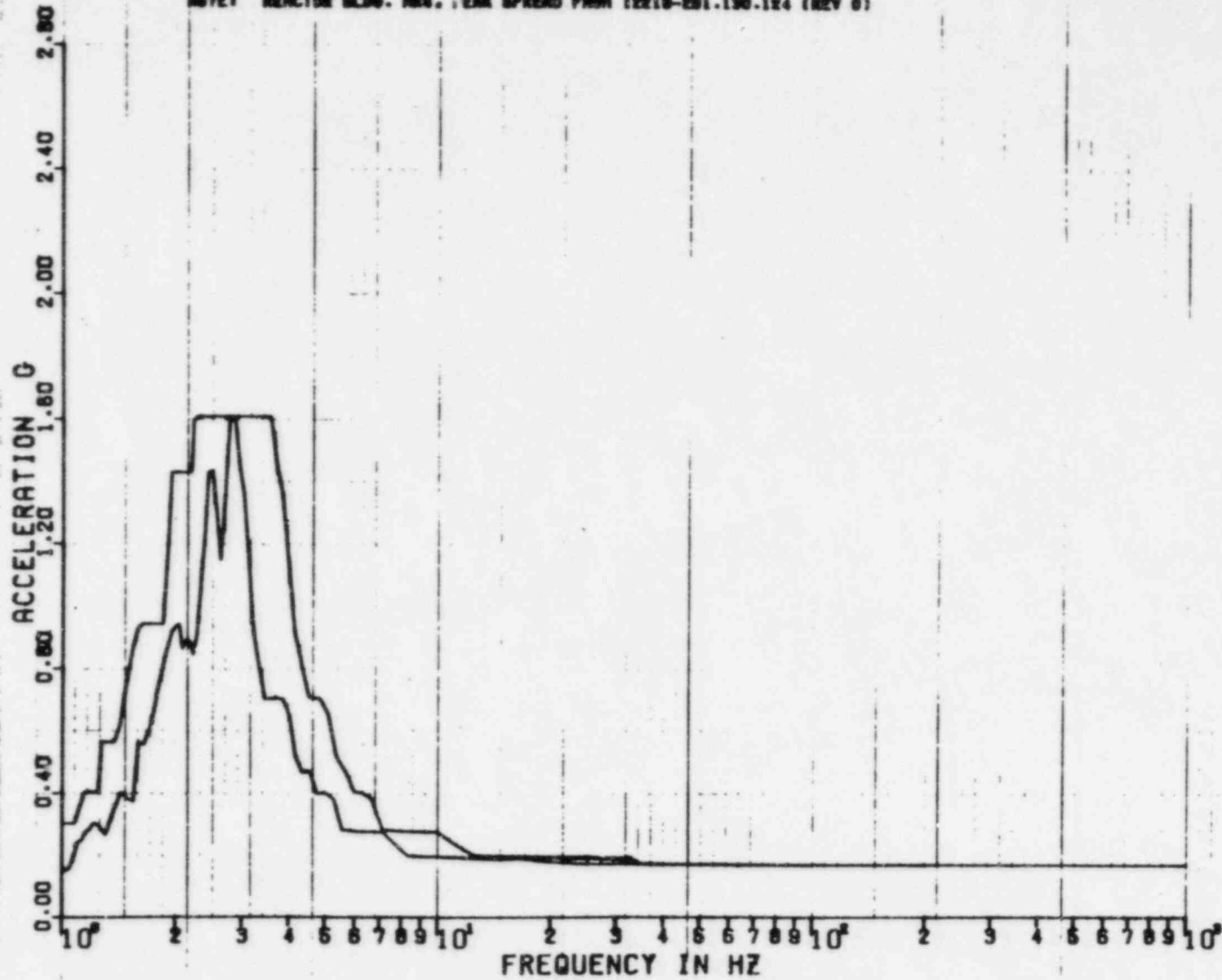
DISK CURVE SET NO.99

0.5 SSE

VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RBS. PEAK SPREAD FROM 12210-201.130.124 (REV 0)



REF 90

638A

8 FEB 1965

X. KAY

DAMPING VALUE = 0.020

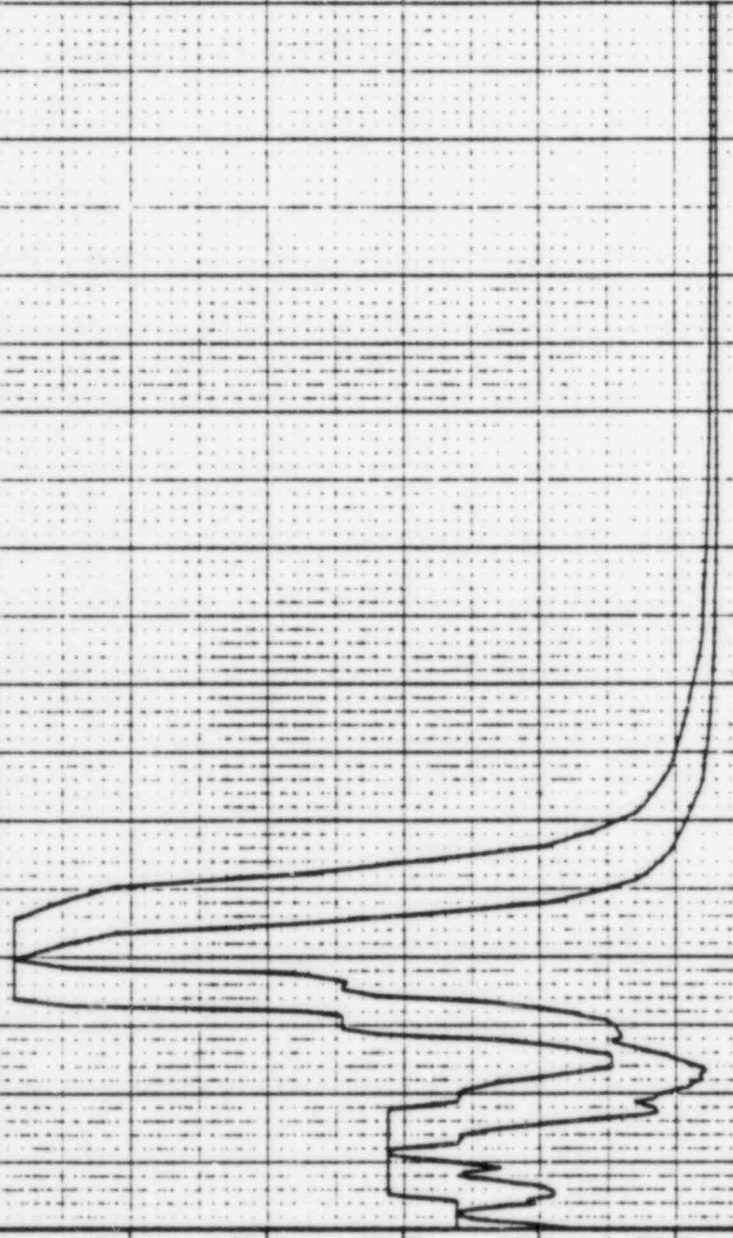
PSPECTRA VER 01 LEV 06  
 GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MMIC1-50E-1905 REV111  
 RRS OF ACC.-REACTOR BLDG.-EL-147.00, RAS6-21 5E16 MODEL-76H  
 PEAK SPREAD -20% +25%

DISK CURVE SET NO.40

NOTE: REACTOR BLDG. RBS. PEAK SPREAD FROM 1210-201-150-124 INEV 01  
 2.0 55E MOR DIRECTION

ACCELERATION 0 0.80 1.60 2.40 3.20 4.00 4.80 5.60

FREQUENCY IN HZ 10<sup>0</sup> 2 3 4 5 6 7 8 9 10





634A

8 FEB 1963

K. KRY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 08  
DULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM1C7-6DE-1903 REV11)  
RBS OF ACC.-REACTOR BLDG.-EL-147-00, MR66-21 SET16 MODEL-PSM  
PEAK SPREAD -20Z +25Z

DIGK CURVE SET NO.40  
1.0 SSE VER DIRECTION

NOTE: REACTOR BLDG. RBS PEAK SPREAD FROM 12210-001.190.184 (REV D)

ACCELERATION

FREQUENCY IN HZ



10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup>  
5.676910<sup>0</sup> 5.676910<sup>1</sup> 5.676910<sup>2</sup>

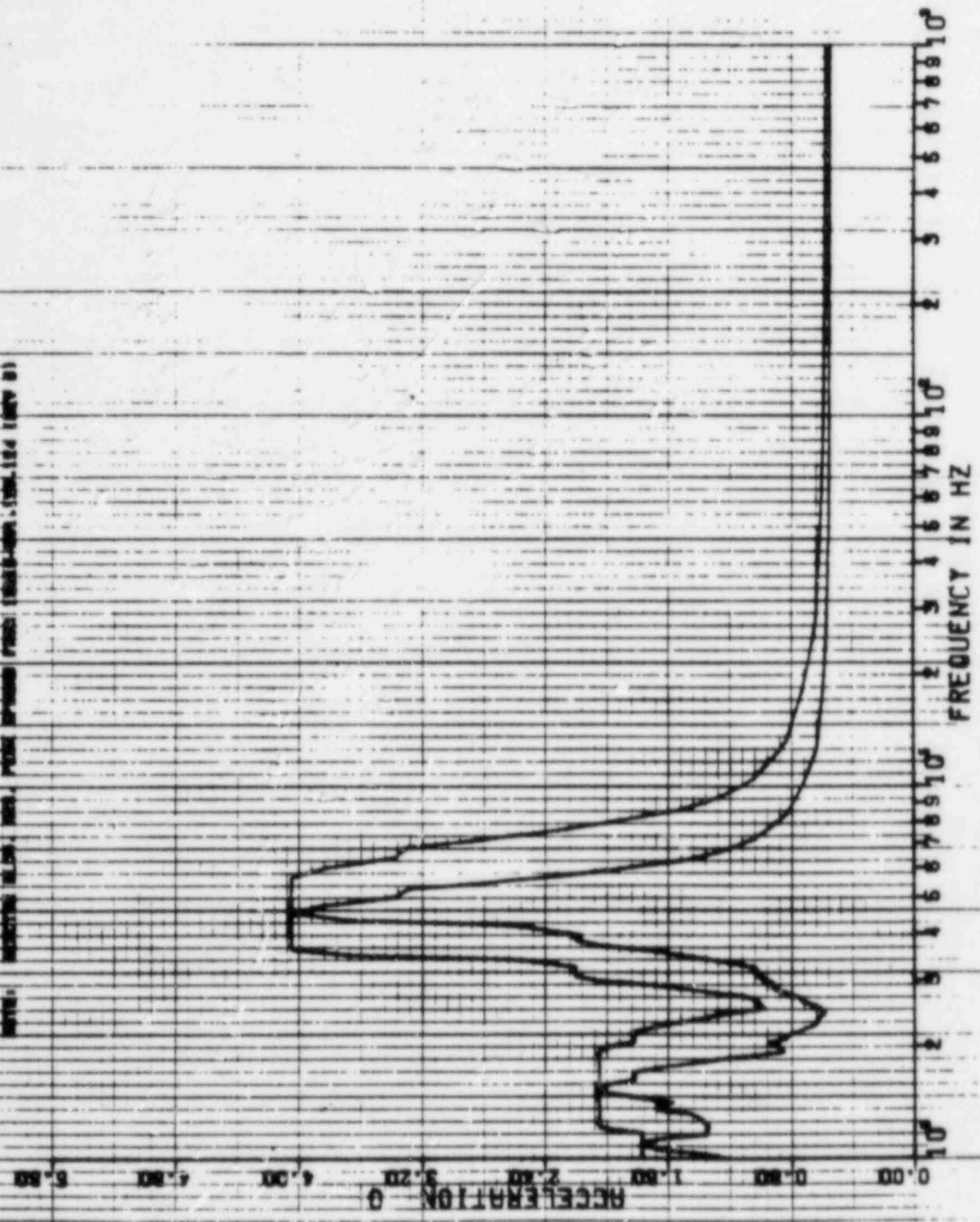
3744

22 APR 1982

K. KAY

DAMPING VALUE = 0.050

PSPECTRA VER 01 LEY 07  
 GULF STATE UTILITIES-RSS UNIT 1-CALC(1210-NMIC)-SDE-1803 REV(0)  
 NRS DF ACC.-REACTOR BLDG.-EL-147-00-NRS5-21 SEIS MODEL-PSH.PEDESTAL  
 PERK SPEND - EDE.L.PSZ  
 DISK CURVE SET NO.40  
 1.0 SSE  
 HBR DIRECTION  
 SSE  
 NRS. SECTORS 4.00. MIN. POS. SPREAD PARAM (1000-000.100.104 100V 8)

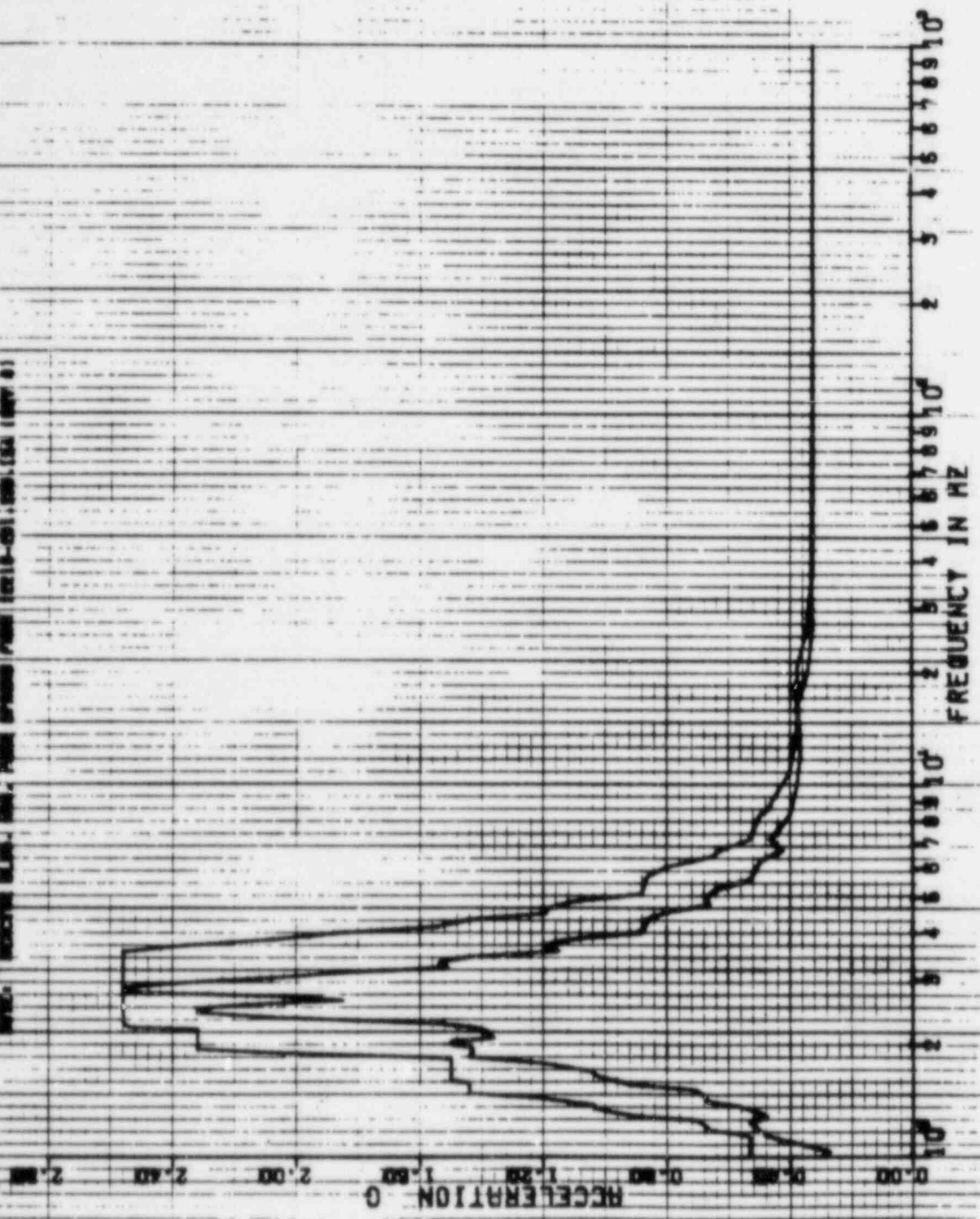


22 APR 1962

K.KAY

DAMPING VALUE = 0.030

PERFECTOR VER 01 LEV 07  
 SELF STATE UTILITIES-KOS ONLY 1-CALC 12210-MR(C)-58E-1903 REV (0)  
 KRS OF MCC.-REACTOR BLDG-CL-147.00-MASS-21 921% MODEL-PSM.PERCSTRAL  
 PENC SPEND. -COTL-282  
 BSE  
 DISK CURVE SET NO. 40  
 1.0 BSE  
 VER DIRECTION  
 MRG. MARCH 24, 1962. PSM SPEND PSM (010-01.000.000.000) (010-01.000.000) (010-01.000.000)





22 APR 1982

K. KRY  
DAMPING VALUE = 0.040

SPECTRA VER DA LEV D7  
SULF STATE UTILITIES-RBS UNIT 1-CALCIPROD-NITD-SOE-1908 REV D)  
RPS OF REC. REACTOR BLDG. EL=147.00. MASSERA SENS MODEL P6H, PEDESTAL  
PEAK SPEED 1.00K/25K  
DISK CURVE SET NO. 140

A. D. 55E HOR DIRECTION

NOTE: REACTOR BLDG. RBS. PEAK SPEED FROM 1200-200. (100.144 REV D)

5.000

4.000

3.000

ACCELERATION

2.000

1.000

0.000

10<sup>0</sup>

2

3

4

5

6

7

8

9

10

2

3

4

5

6

7

8

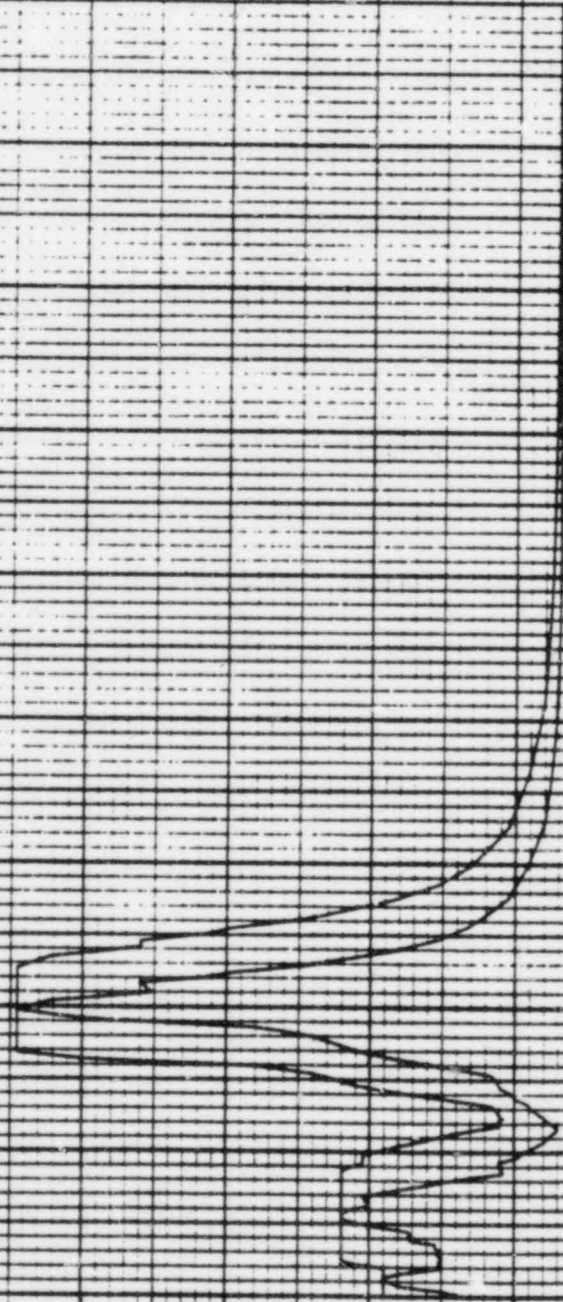
9

10

10<sup>0</sup>

10<sup>0</sup>

FREQUENCY IN HZ





11A

22 APR 1982

K. KRY

DAMPING VALUE = 0.040

PSPECTRA VER 01 LEV 07  
 CULF STATE UTY LIVES RBBS UNIT 1 - CALCIFIED-NHTCJ-5DE-1908 (REV D)  
 RRS OF ACC. REACTOR BLDG. FLEND. DDL MASSERN SENS MODEL PSM, PEDESTA  
 PEAK SPREAD - 20V ± 25%

VER DIRECTION

A.D. 55E

NOTE: REACTION (ALSO) RRS PEAK SPREAD FROM 4200-200 (50-124 INCH D)

DISK CURVE SET NO. 40

RECELERATION 0  
 0.00  
 0.40  
 0.80  
 1.20  
 1.60  
 2.00  
 2.40  
 2.80

10<sup>0</sup>  
 2  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 10<sup>1</sup>

FREQUENCY IN HZ



PSPECTRA VER 01 LEV 07

DULF STATE UTILITIES-RSS UNIT 1-CALC12210-MM(C)-80E-1803 REV10)  
RNG OF ACC.--REACTOR BLDG. EL=96.000.MASS=22 SE18 MODEL-DRYHELL  
PEAK SPREAD -20Z.+25Z

DISK CURVE SET NO.41

0.5 SSE

HOR DIRECTION

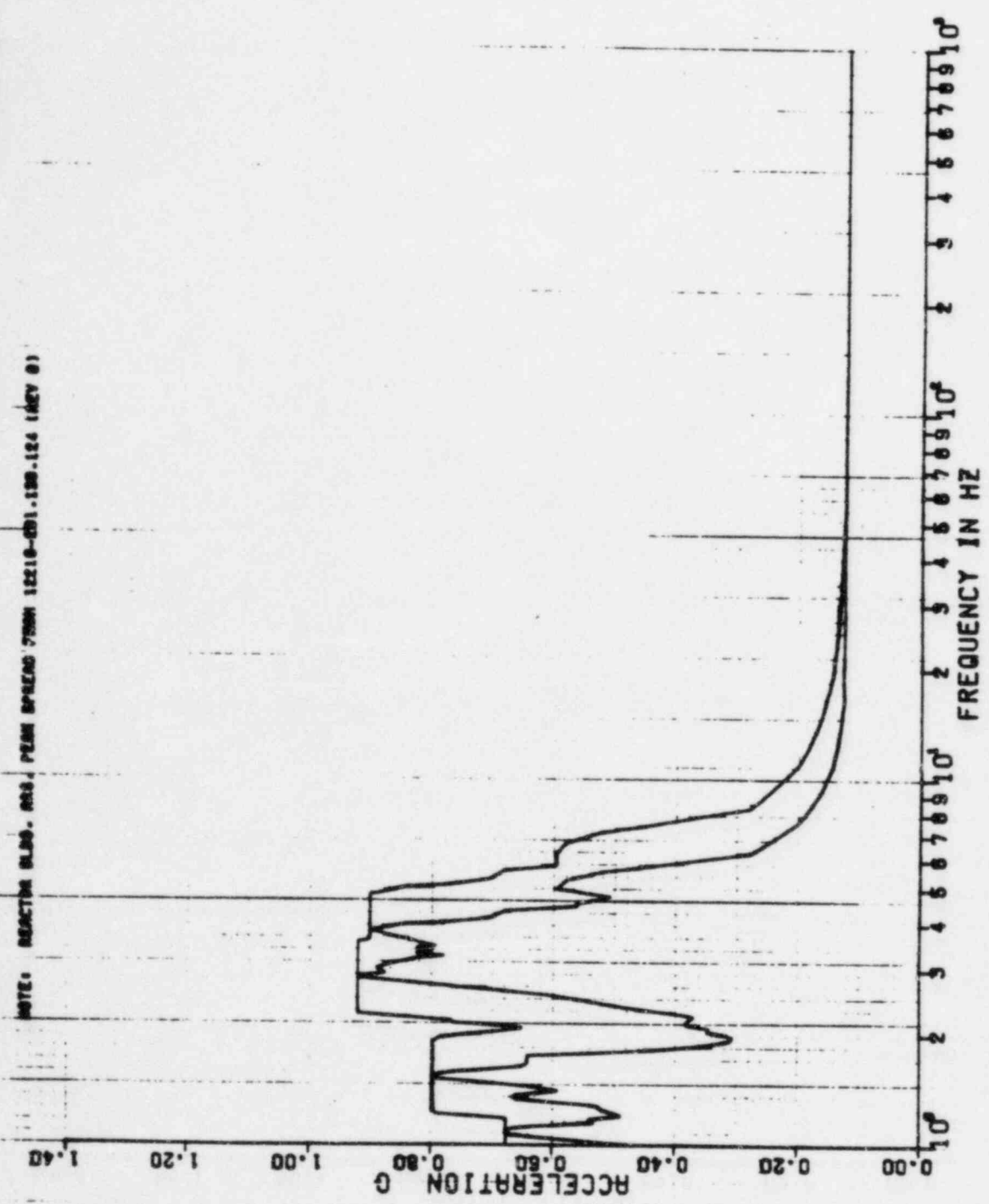
NOTE: REACTOR BLDG. 808, PEAK SPREAD 799H 12210-201.128-124 (REV 0)

22 APR 1982

2.11A

K.KAY

DAMPING VALUE = 0.020



PSPECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-RB6 UNIT 1-CALC12210-NMIC)-50E-1903 REV10)  
RRS OF ACC.-REACTOR BLDG.EL=96.000.MASS=22 SEIS MODEL-DRYWELL  
PEAK SPREAD -20%.+25%

114

DISK CURVE SET NO.41

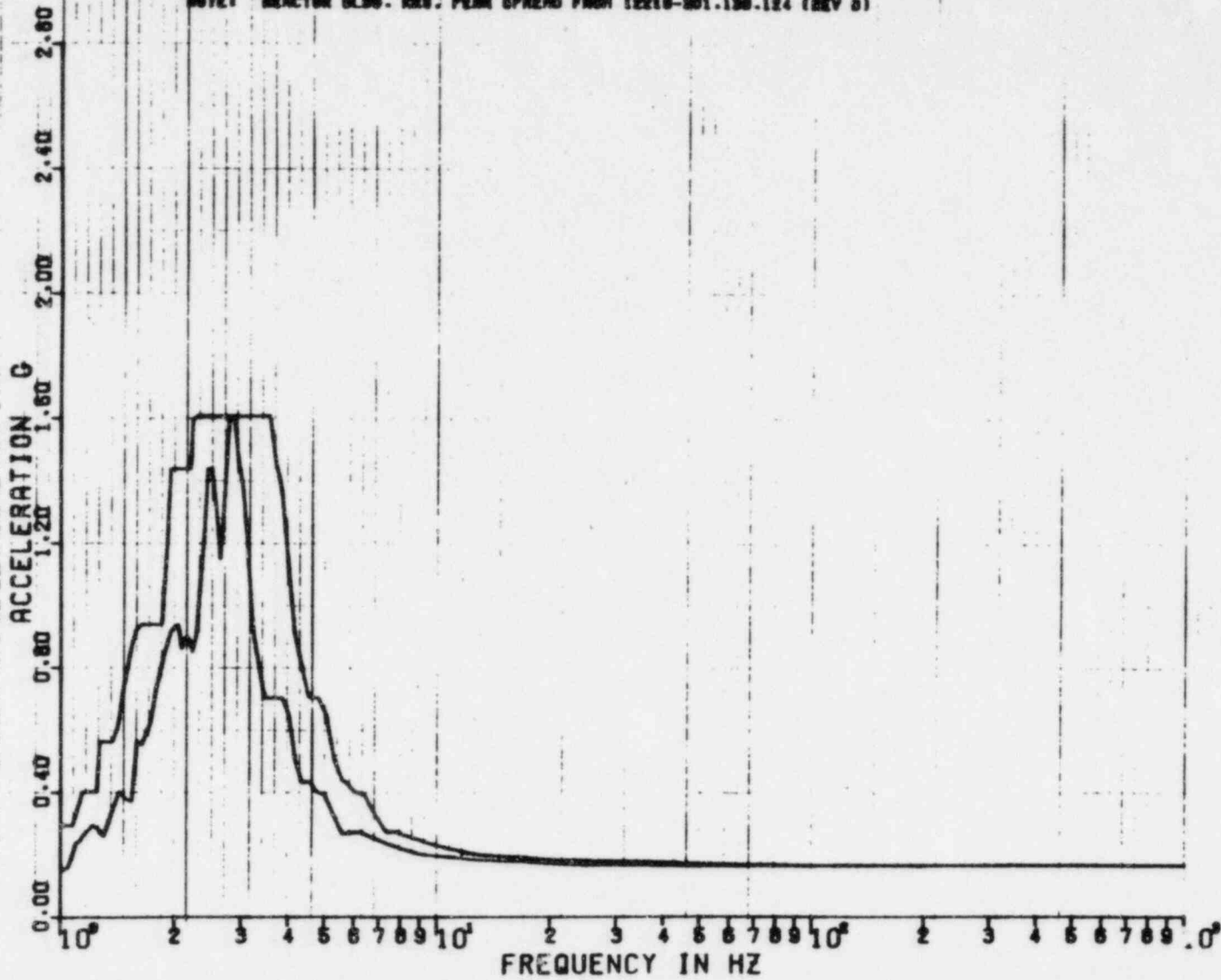
0.5 SSE

VER DIRECTION

K.KAY

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RRS. PEAK SPREAD FROM 12210-501.130.124 (REV 0)



REF 91

6 FEB 1963

K. MRY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 08  
 GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-50E-1903 REV(1)  
 RBS OF ACC.-REACTOR BLDG. .EL=96.000, MASS=22.5E16 MDOEL-DRYWELL  
 PEAK SPREAD -20% +25%  
 DISK CURVE SET NO.42  
 NOTE: REACTOR BLDG. RBS. PEAK SPREAD FROM 8E10-601.130.124 (REV D)

1.0 55E HOR DIRECTION

NOTE: REACTOR BLDG. RBS. PEAK SPREAD FROM 8E10-601.130.124 (REV D)

2.80

2.40

2.00

1.60

1.20

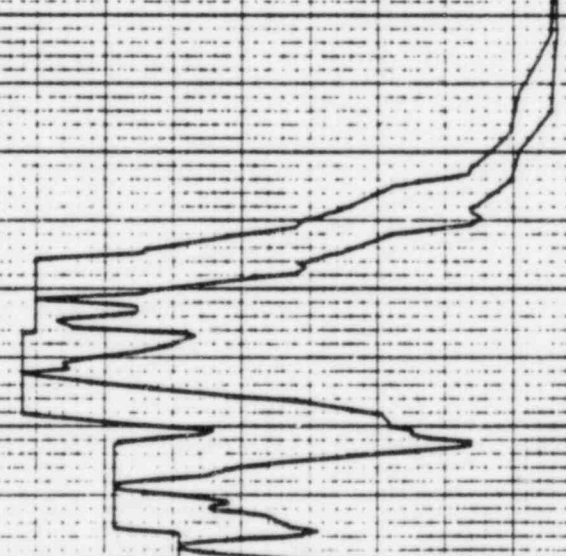
0.80

0.40

0.00

ACCELERATION

10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup>  
 5.678910<sup>1</sup> 5.678910<sup>2</sup> 5.678910<sup>3</sup> 5.678910<sup>4</sup> 5.678910<sup>5</sup>  
 FREQUENCY IN HZ





64A

8 FEB 1965

K. MAY

DAMPING VALUE = 0.020

PSPEC:RA VER 01 LEV 08  
DULF STATES UTILITIES-RMS UNIT 1-CALC12210-MMIC7-50E-1903 REV(1)  
RMS OF ACC.-REACTOR BLDG. EL-96.000, MASS-22 5E16 MODEL-DRYNELL  
PEAK SPREAD -20% +25% 56E

1.0 56E VER DIRECTION

NOTE: REACTOR BLDG. RMS PEAK SPREAD FROM 12210-001-130.124 (REV 01)

DISK CURVE SET NO.42



10<sup>0</sup> 2 3 4 5 6 7 8 9 10<sup>1</sup> 2 3 4 5 6 7 8 9 10<sup>2</sup>  
FREQUENCY IN HZ

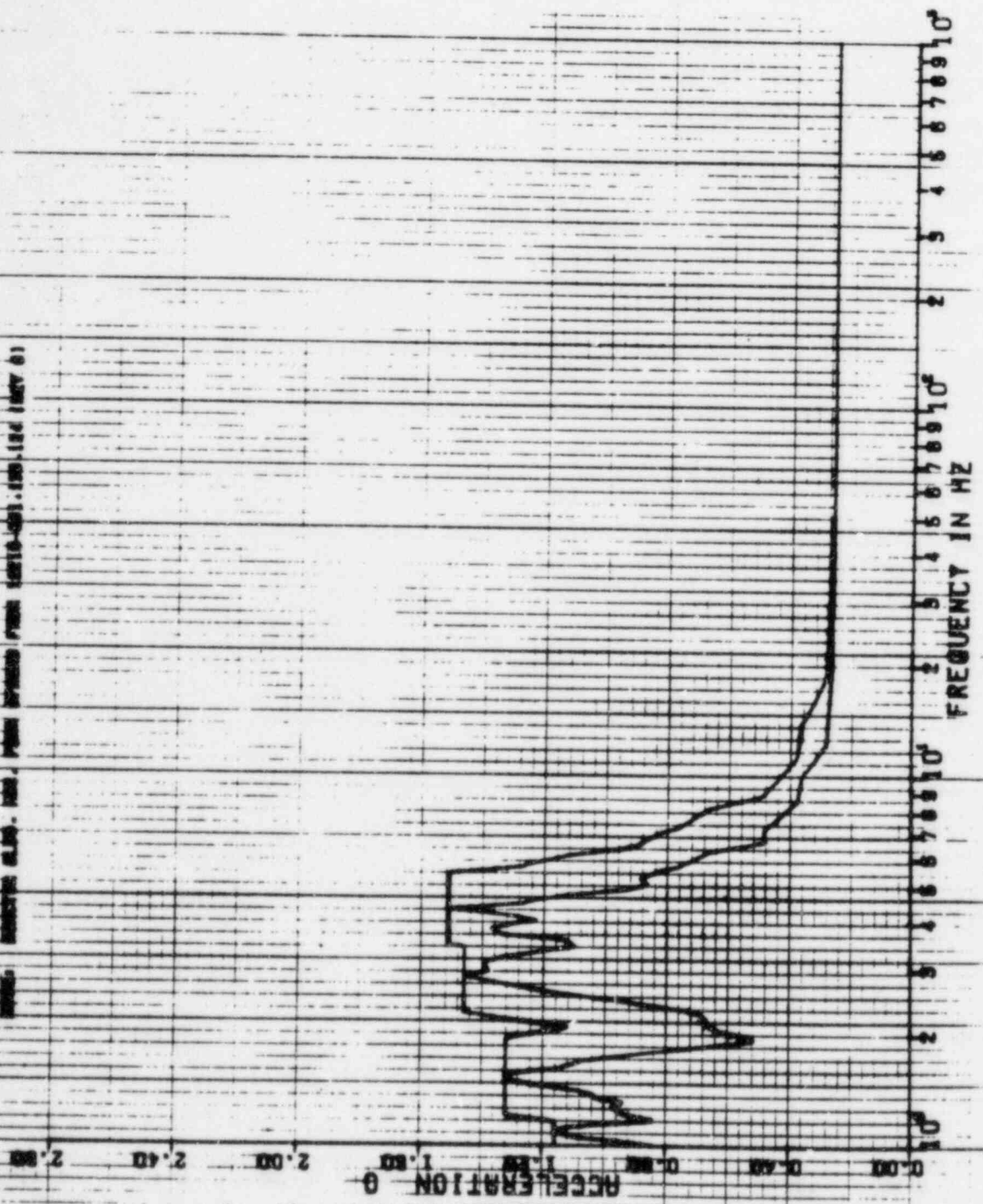
3.76 A

22 APR 1962

K.KAY

DAMPING VALUE = 0.030

PROJECT: VER 01 | LEV 07  
 GULF STATE UTILITIES-RSS UNIT 1-CMLC12210-DR(C)-SQE-1903 REV101  
 ARE OF MCC-REACTOR BLDG. CL-88.000. NWS8-22 9218 MODEL-GRYNELL  
 PERK SPZNDL-1-201.025Z  
 DISK CURVE SET NO. 82  
 1.0 SSE  
 FOR DIRECTION  
 DATA: BANGOR BLDG. 100. FROM BANGOR FROM 1219-091.120.184 (REV 8)







1114

22 APR 1982

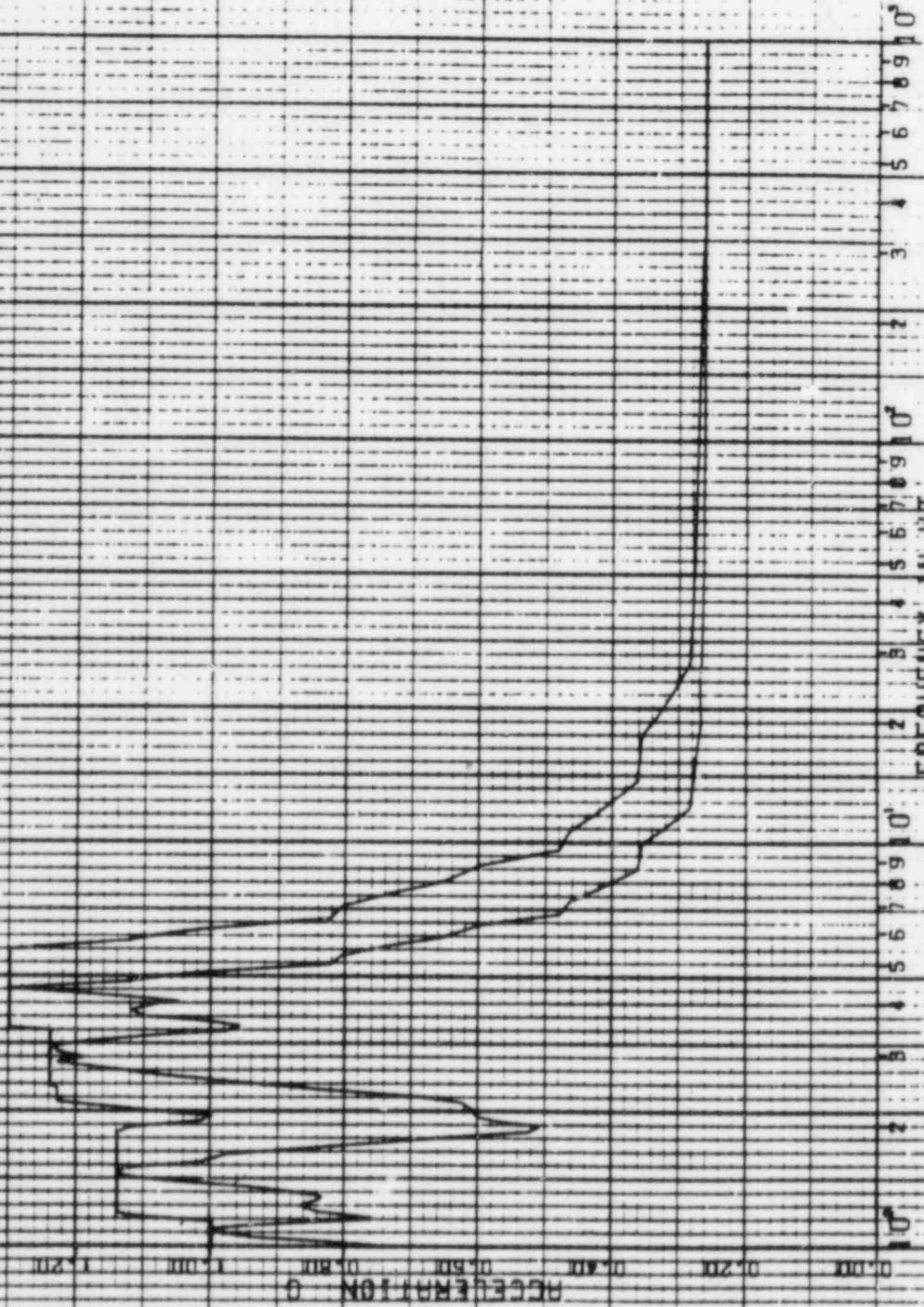
K-KBY

DAMPING VALUE = 0.040

SPECTRA VER D1 LEV 07  
 CULF STOVE UTILITIES-RBS UNIT 1-CALC 12210-NHIL-50E-1908 REV 03  
 RRS OF ACC-REACTOR BLOC-EL-96.000. MASS-22 SETS MODEL-DRYNELL  
 PEAK SPEED 1207.85V  
 DISK CURVE SET NO. 12  
 1-D 55E HDR DIRECTION  
 NOTE: REACTOR ALON. RAS. PEAK SPEED (MON 2238-20) 1501.74 184V b1

DAMPING VALUE = 0.040

NOTE: REACTOR ALON. RAS. PEAK SPEED (MON 2238-20) 1501.74 184V b1



ACCELERATION G

FREQUENCY IN HZ



975A

22 APR 1982

K. KRY

DAMPING VALUE = 0.040

PSPECTRR VER DI LEV D7

CULF SYMUL UTILITIES-RBS UNIT 1-CAL12210-WR111-SOE-1909 REV 0)  
RBS OF ALL REACTOR BLOC. EL-96.000. MASS-22 SEIS MODEL-DRYWELL  
PEAK SPREAD 1.20V. L25V

DISK CURVE SET NO. 12 1.0 55E VER DIRECTION

NOTE: REACTION BLOC. RBS PEAK SPREAD FROM 2210-201 130.14 188V 01

2.80

2.40

2.00

ACCELERATION G

1.60

1.20

0.80

0.40

0.00

10<sup>0</sup>

2

3

4

5

6

7

8

9

10

2

3

4

5

6

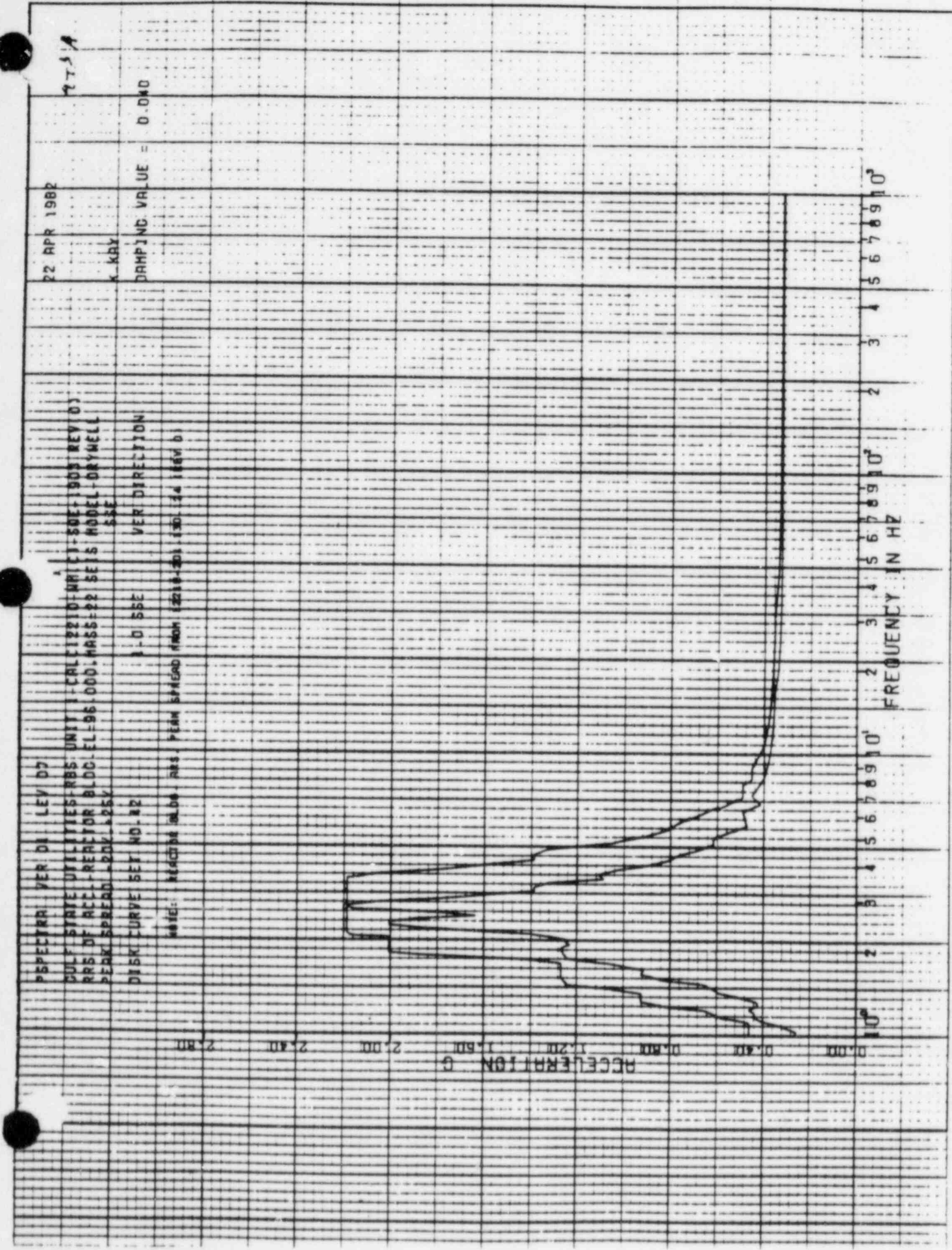
7

8

9

10

FREQUENCY IN HZ



PSPECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NMIC1-80E-1903 REV10)  
RMS OF ACC.-REACTOR BLDG.FL=114.00.MASS=23 SEIS MODEL-DRYWELL  
PEAK SPREAD -20%.+25%

29.4

DISK CURVE SET NO.43

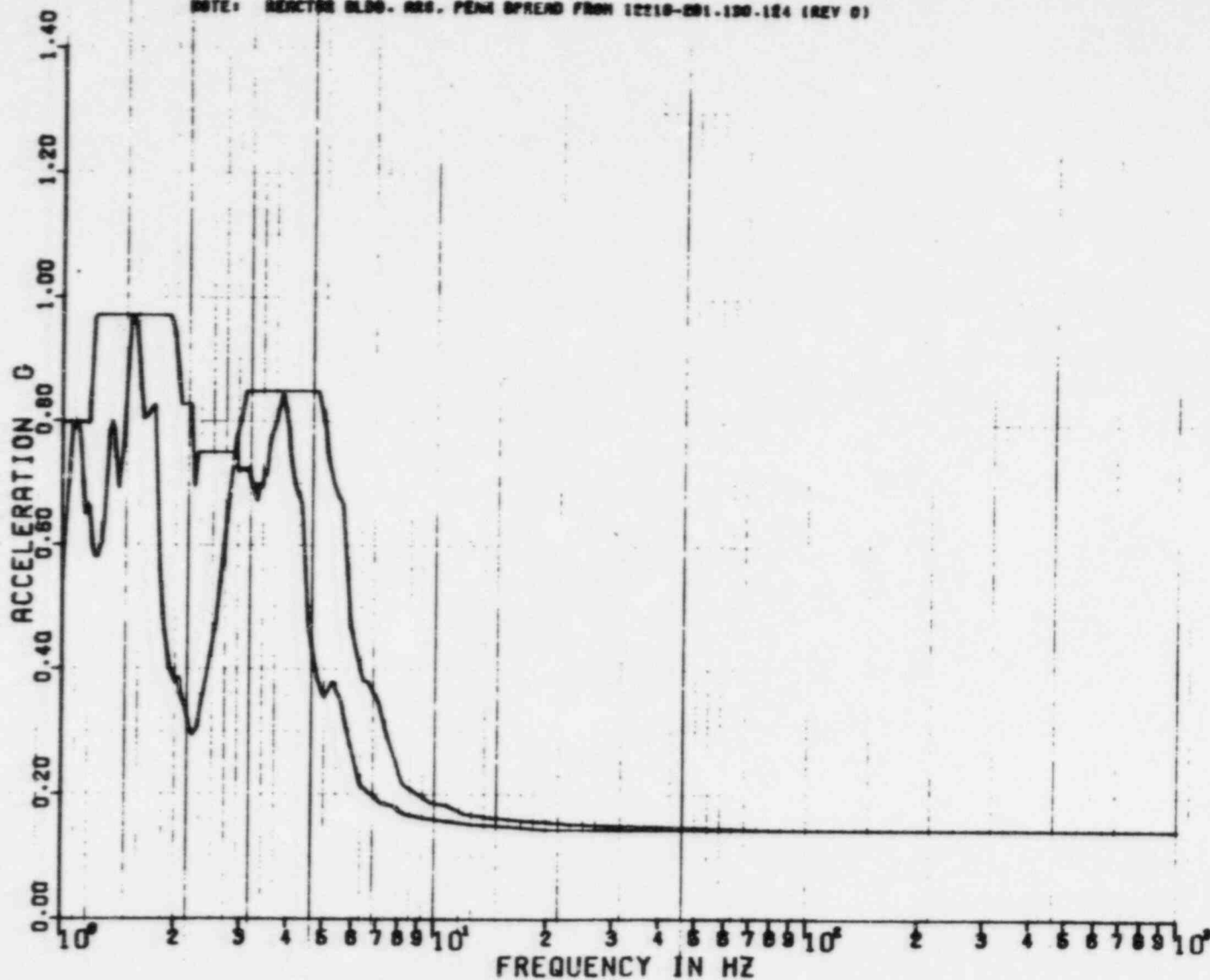
0.5 SSE

HOR DIRECTION

K.KAY

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RMS. PEAK SPREAD FROM 12210-201-130-124 (REV 0)



REF 92

22 APR 1982

7/4

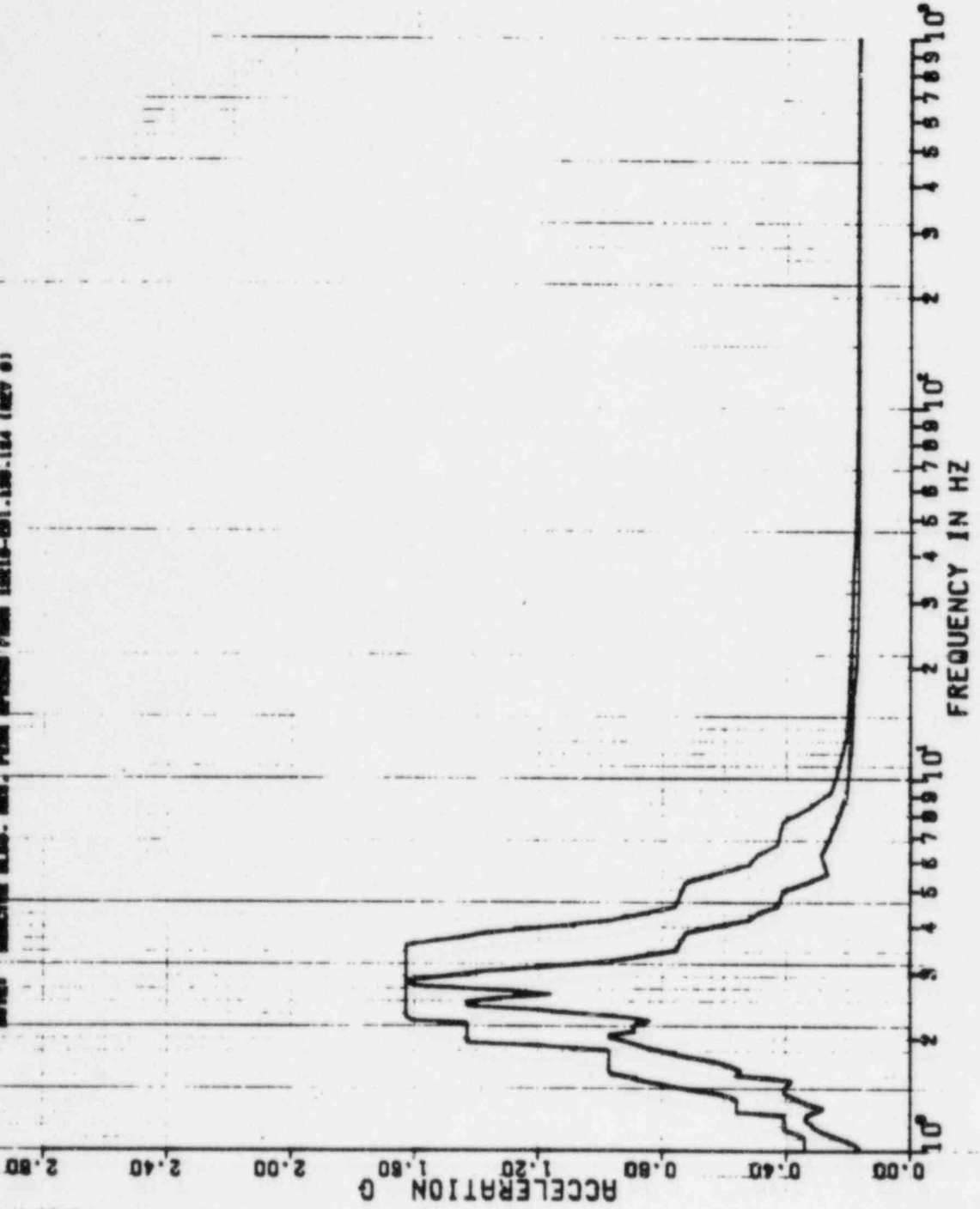
K. KAY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 07  
 GULF STATE UTILITIES-RSS UNIT 1-CALC(12010-MR(C)-50E-1903 REV(0)  
 RRS OF ACC.-REACTOR BLDG.-EL=114.00, MASS=23 SEIS MODEL-DRYWELL  
 PEAK SPREAD -20%+25%  
 DISK CURVE SET NO.43

0.5 GSE VER DIRECTION

NOTE: REACTOR BLDG. HAS PEAK RESPONSE FROM 10010-091.100-104 (REV 0)





6410

8 FEB 1965

K. KRY

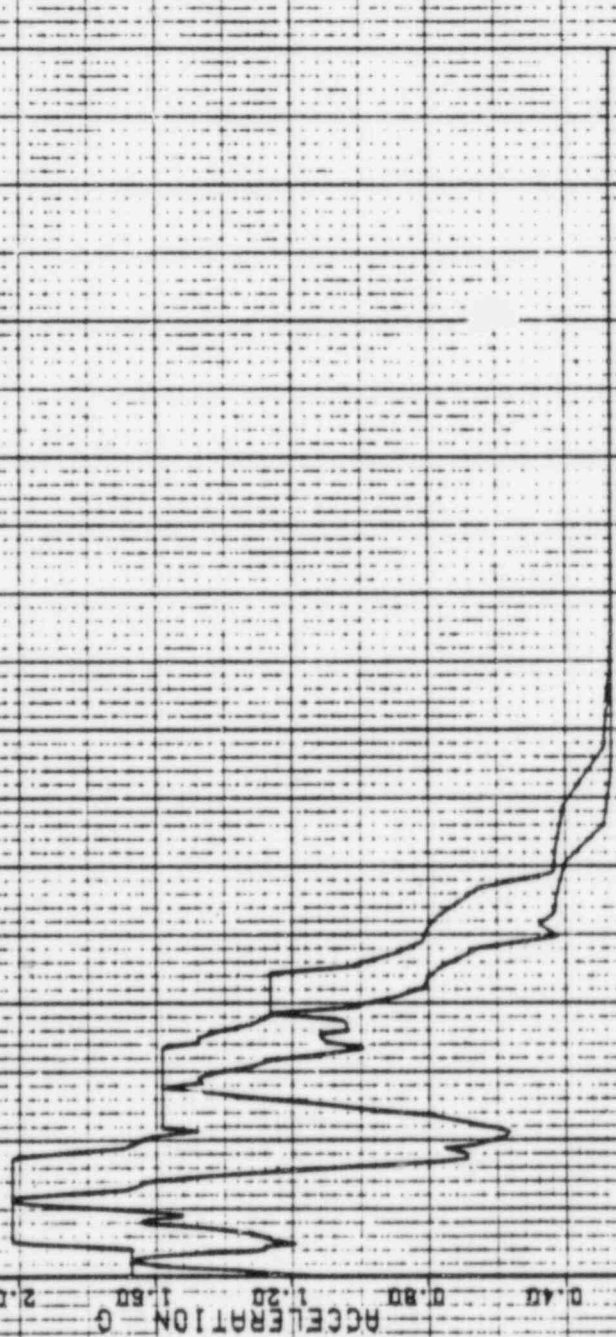
DAMPING VALUE = 0.020

PSPECTRA VER 03 LEV 08  
 GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MM1C7-60E-1903 REV11)  
 RMS OF ACC.-REACTOR BLDG. EL=114.00, MASS=23 SEIS MODEL-DRYWELL  
 PEAK SPREAD -20% +25%

1.0 55E MCR DIRECTION

NOTE: REACTOR BLDG. RMS PEAK SPREAD FROM 2210-501-150-104 (REV B)

DISK CURVE SET NO.44



10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup>  
 2 3 4 5 6 7 8 9 10  
 FREQUENCY IN HZ

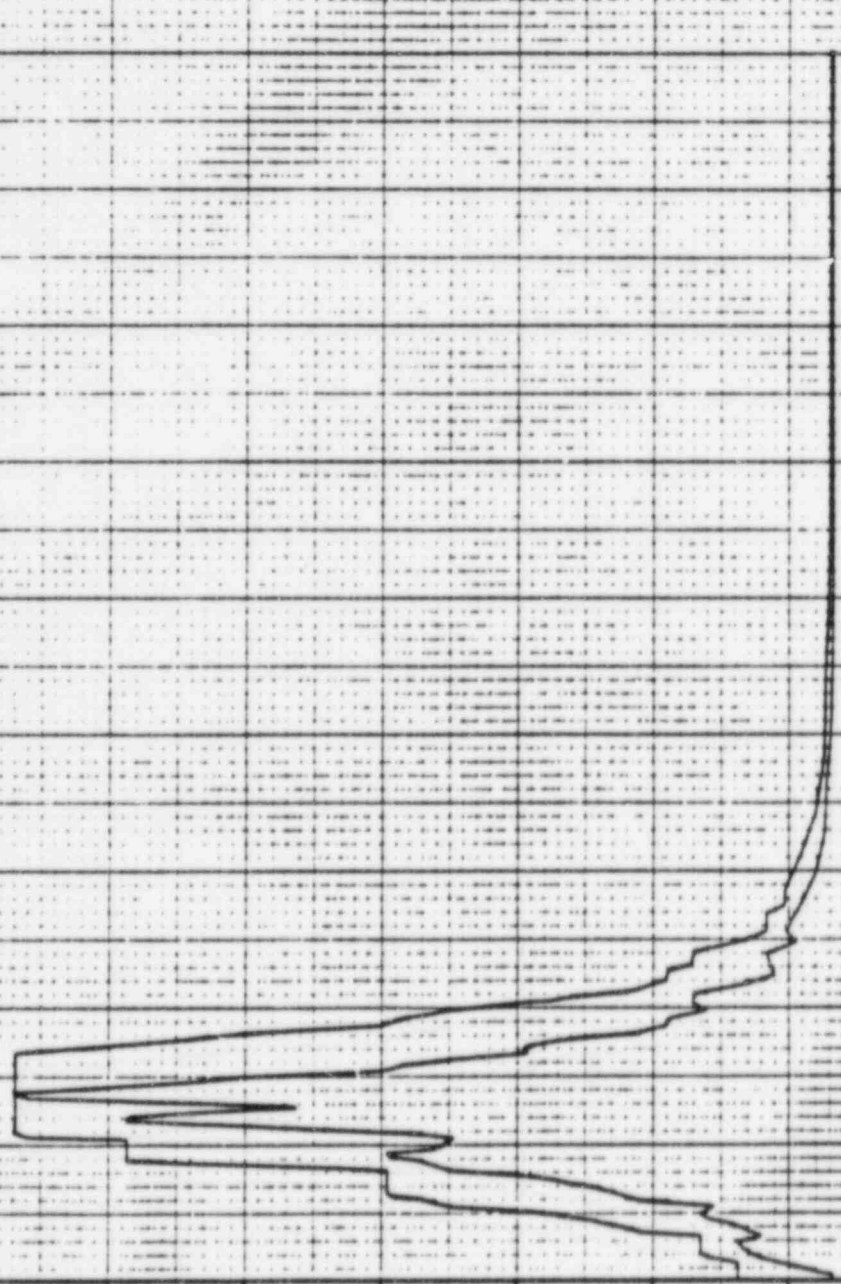
54739

6 FEB 1963

K. KRY

DAMPING VALUE = 0.020

PSPECTRA VER 03 LEV 08  
 DULF STATES UTILITIES-RBS UNIT 3-CALC12210-NM1C7-6DE-1CD3 REV11)  
 MRS OF ACC.--REACTOR BLDG. FL=114.00, MRSF=23 5E16 MDEL-DRYWELL  
 PERK SPREAD -20Z +25Z  
 DISK CURVE SET NO.44  
 3.0 SSE VER DIRECTION  
 NOTE: REACTOR BLDG. MRS. PERK SPREAD FROM 12210-601-150-124 (REV D)



10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 5.678910<sup>4</sup>  
 FREQUENCY IN HZ

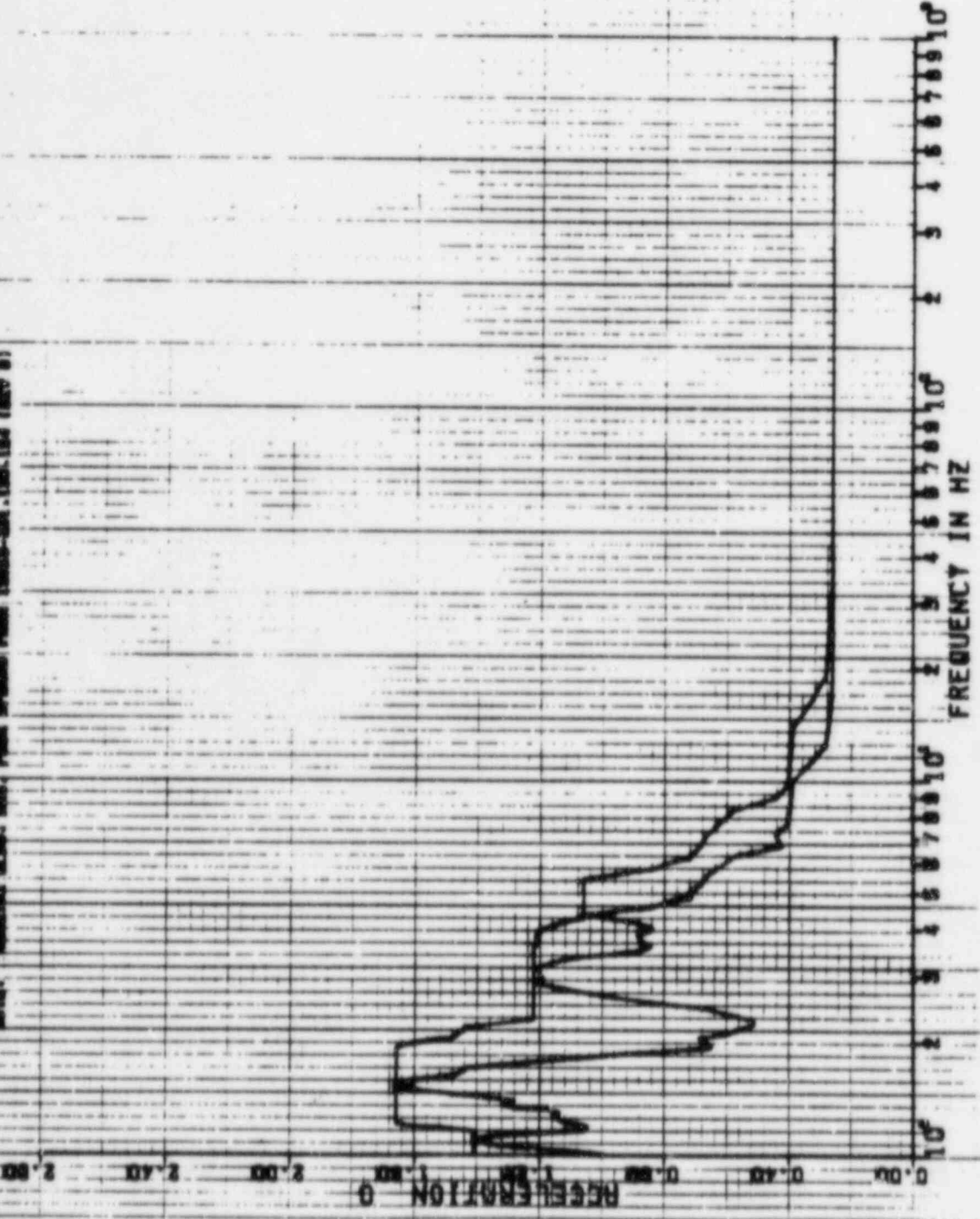
3714

22 APR 1962

K. JURY

DAMPING VALUE = 0.0790

PAPER: PER DS LEV 07  
 ONLY STATE UTILITIES-AMC UNIT 1-CALCULATED-MIC)-32E-1300 REV(D)  
 CASE OF REC-REACTOR BLDG. EL-119.00. WIND-23 SEIS MODEL-CRYWELL  
 PEAK RESPONSE -20X.05X  
 DISK DRIVE MET NO.43  
 1.0 GAZ HOR DIRECTION  
 WIND: WINDSPEED 0.100. WIND PRESSURE FROM 1000-00. 100.1004 (REV B)









414A

22 APR 1988

K KBY

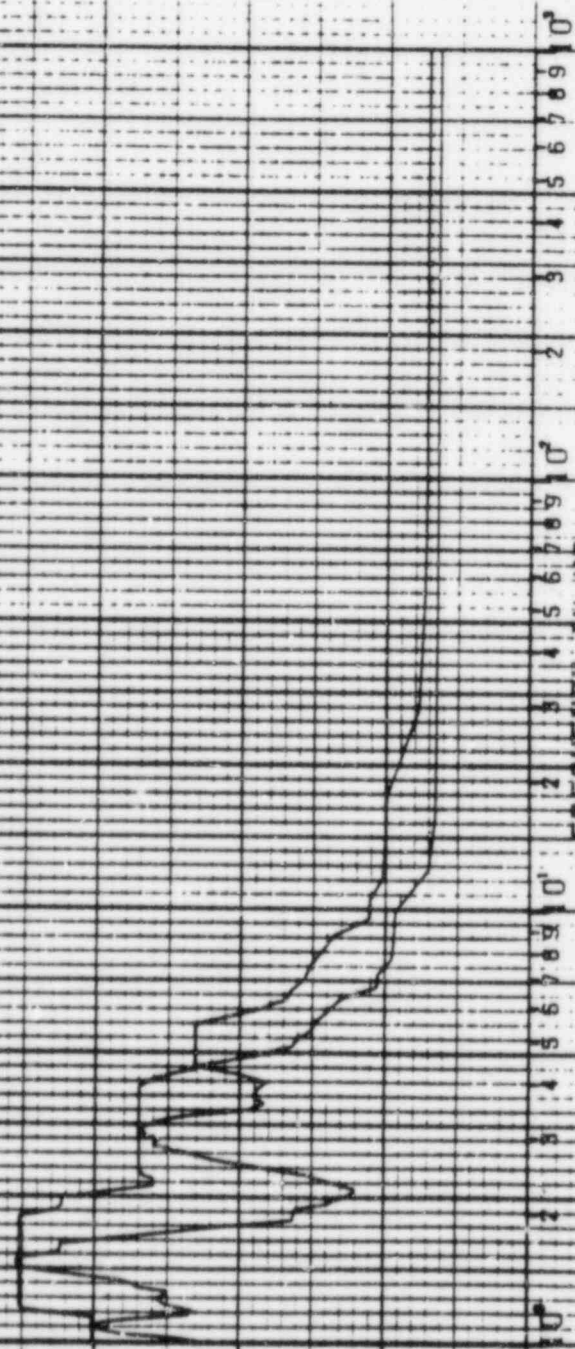
DAMPING VALUE = 0.040

SPECTRA VER 01 LEY 07  
 GULF STATE UTILITIES-RBS UNIT -CALL 22 0 UNIT -S01-1003 REV 01  
 PRS OF REC-REACTOR BLOC ELE 1.00 MASS-23 SE S MODEL-007WELL  
 PERM SPREAD -S01-152  
 DISK CURVE SET NO. 27  
 3.0 SEC HOR DIRECTION  
 NAME: REACTOR BLOC, HRS. REAR SPREAD FROM (22 0-23) 150.124 18V. 01

0.00  
 0.50  
 1.00  
 1.50  
 2.00  
 2.50  
 3.00  
 3.50  
 4.00  
 4.50  
 5.00  
 5.50  
 6.00  
 6.50  
 7.00  
 7.50  
 8.00  
 8.50  
 9.00  
 9.50  
 10.00

ACCELERATION G

FREQUENCY IN HZ



SPECTRA VER D1 LEV 07

GULF STATE UTILITIES-RBS UNIT 1-CALL 1910-NM (1) SGE-1001 REV 0)  
RBS OF ACC. REACTOR BLOC. ELE 11.00. HASSE-23 SE 15 MODEL-DAYNELL  
PEAK SPREAD 1.007. 55E

DISK CURVE SET NO. 111

1.0 55E VER DIRECTION

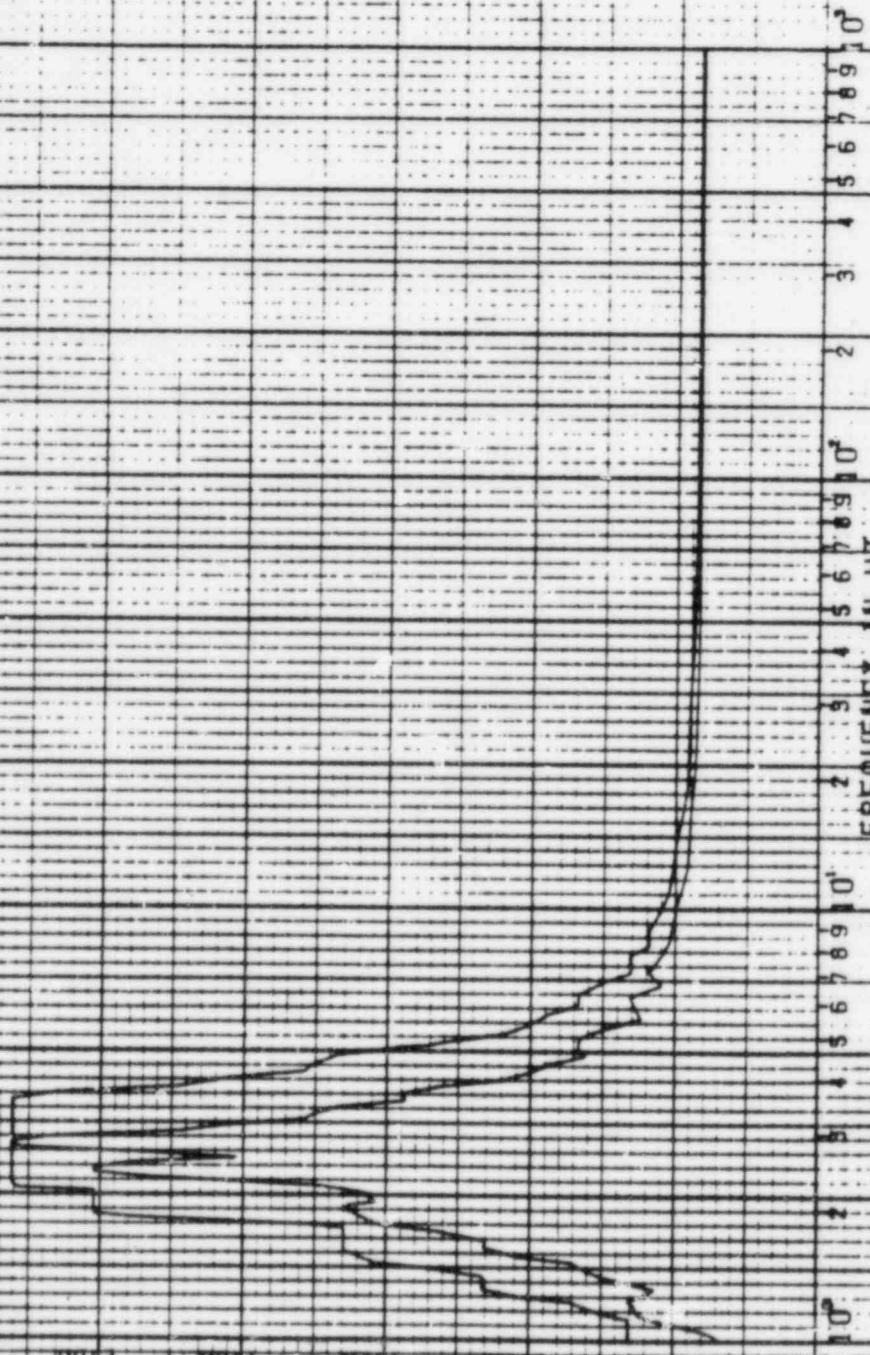
NOTE: REACTOR ALBO. RBS. PEAK SPREAD FROM (2210.50) (50.14 10dy b)

22 APR 1982

X-KRY

DAMPING VALUE = 0.000

4.3.12



ACCELERATION G

0.00

1.00

2.00

2.50

10<sup>0</sup>

10<sup>1</sup>

10<sup>2</sup>

10<sup>3</sup>

5.6769 x 10<sup>3</sup>

FREQUENCY IN HZ

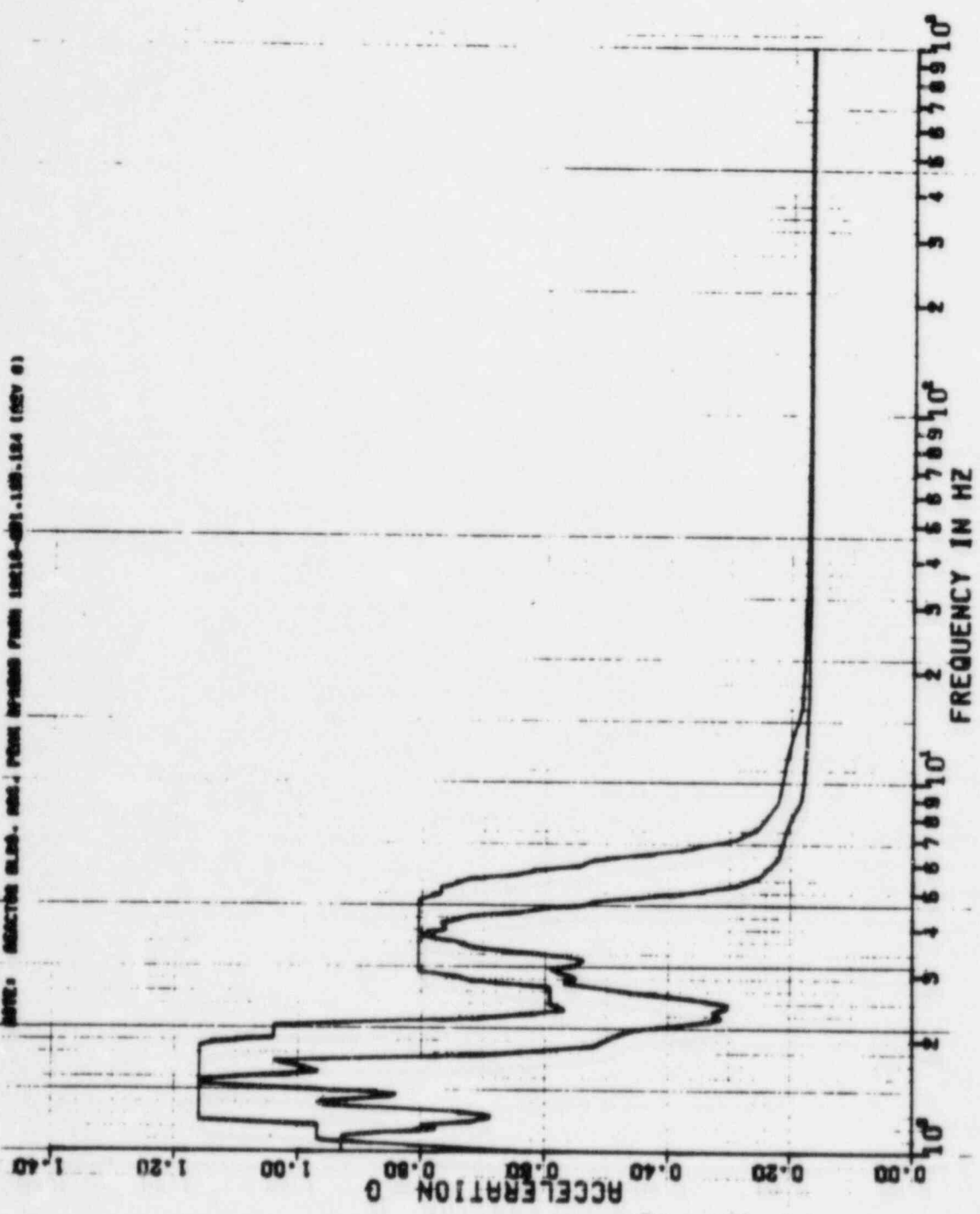
24

22 APR 1962

K.KAY

DAMPING VALUE = 0.020

SPECTRA VER 01 LEV 07  
 GULF STATE UTILITIES-RDS UNIT 1-CALC.12210-WHIC1-80E-1903 REV101  
 RRS OF ACC.-REACTOR BLDG.-EL-133.00.MASS=24 SEIS MODEL-DRTWELL  
 PEAK SPREAD -201.-+25Z  
 DISK CURVE SET NO.45  
 0.5 SSE MOR DIRECTION  
 DATE: REACTOR BLDG. NO.1 FROM SPREAD FROM 10210-001.100-104 (REV 0)





22 APR 1962

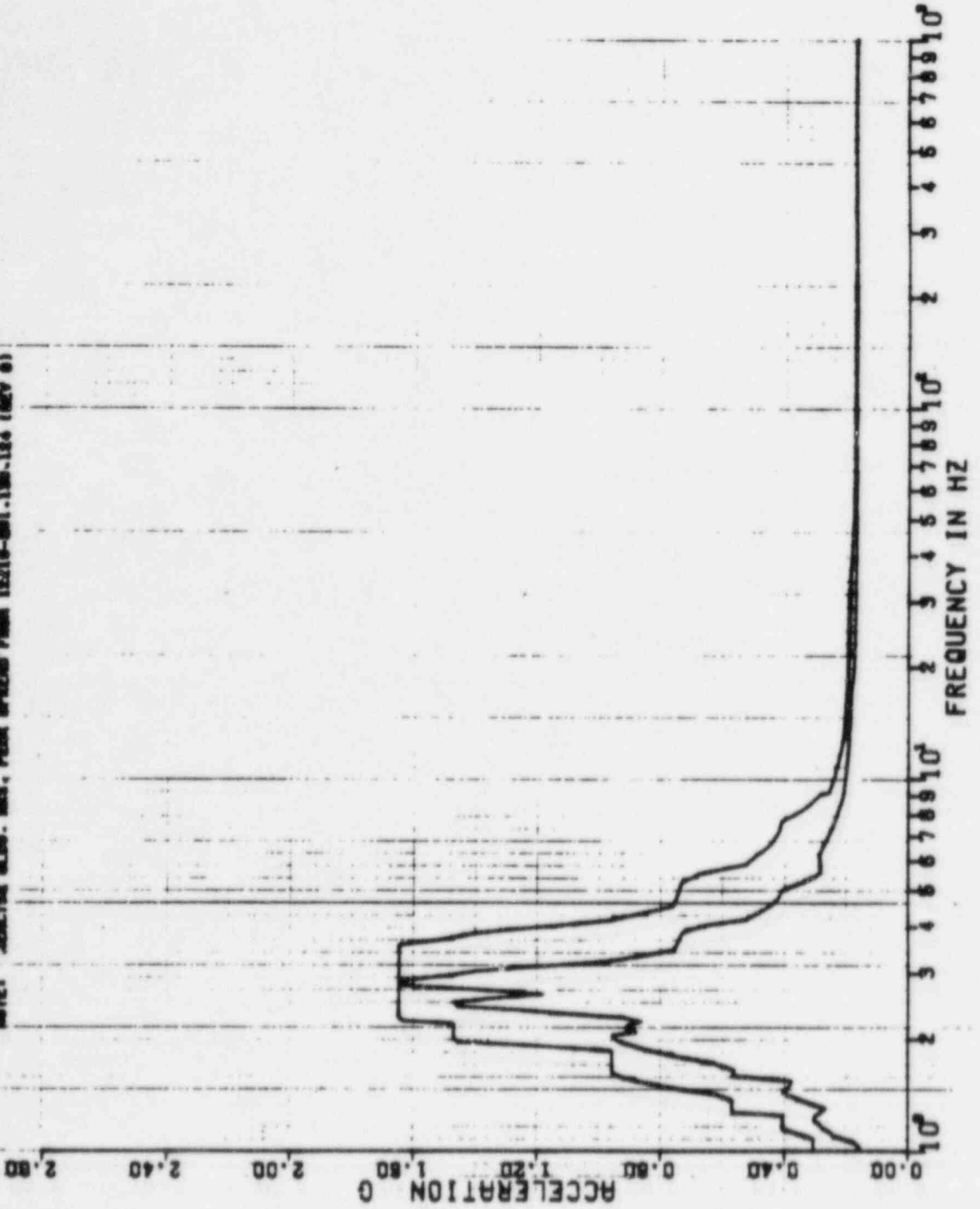
2.7.4

K. KAY

DAMPING VALUE = 0.020

SPECTRA VER 01 LEV 07  
 GULF STATE UTILITIES-RBS UNIT 1-CALC(12210-NHIC)-SSE-1903 REV(0)  
 RRS OF ACC.-REACTOR BLDG. EL=133.00, MASS=24 SEIS MODEL-ORYNELL  
 PEAK SPREAD -E01.+25Z  
 DISK CURVE SET NO.45  
 0.5 SSE  
 VER DIRECTION  
 SSE

NOTE: 30ACTIVE BLDG. SCS, FROM SPREAD FROM 12/10-001.130-124 (KEY 0)



441A

6 FEB 1963

K. KRY

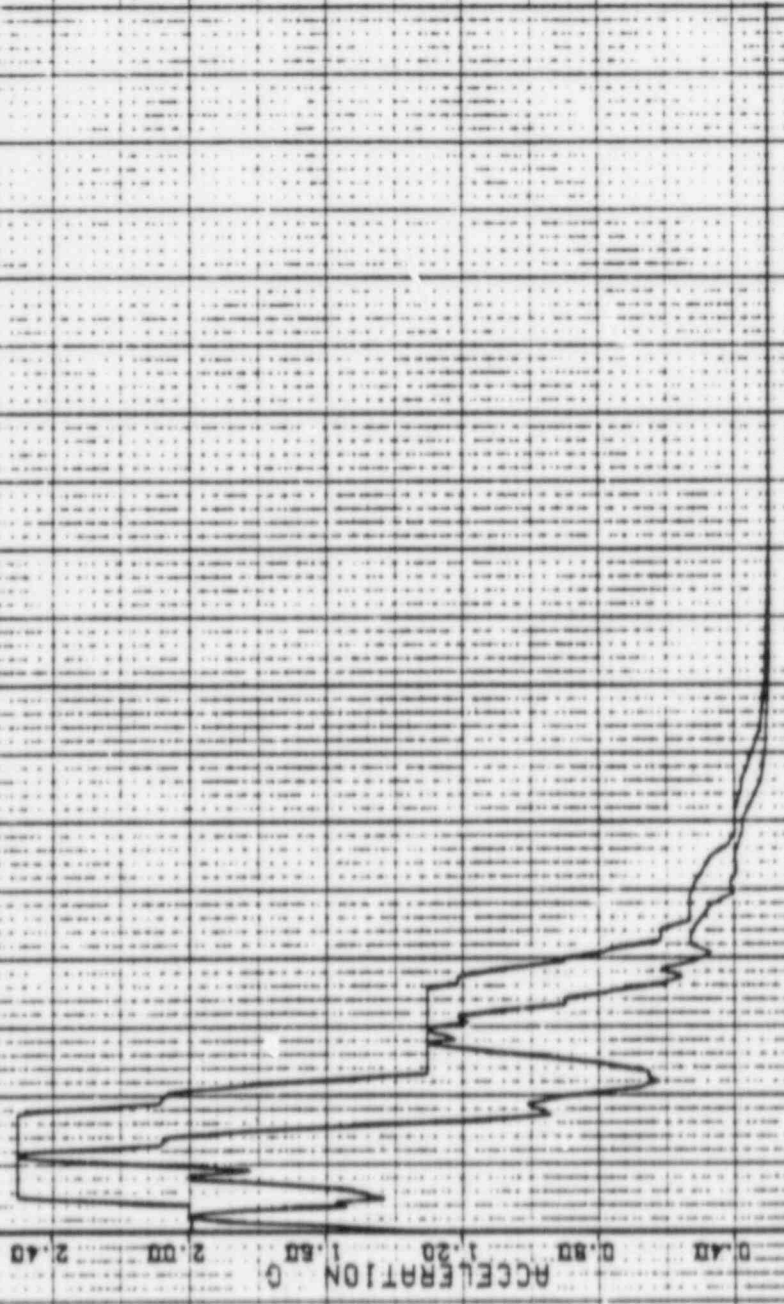
DAMPING VALUE = 0.020

SPECTRA VER 03 LEV 08  
 GULF STATES UTILITIES-RDS UNIT 1-CR-12210-MNCT-50E-1903 REV117  
 RRS OF ACC.-REACTOR BLDG., EL-133.00, MASS-24, SE16 MODEL-DRYWELL,  
 PEAK SPREAD -20% +25%  
 DISK CURVE SET NO-45  
 NOTE: REACTOR BLDG. RRS PEAK SPREAD FROM (2210-201, 150-164 REV D)

MDR DIRECTION

J-D 55E

PEAK SPREAD FROM (2210-201, 150-164 REV D)



5.678910<sup>0</sup>

5.678910<sup>0</sup>

5.678910<sup>0</sup>

10<sup>0</sup>

6-1-A

8 FEB 1965

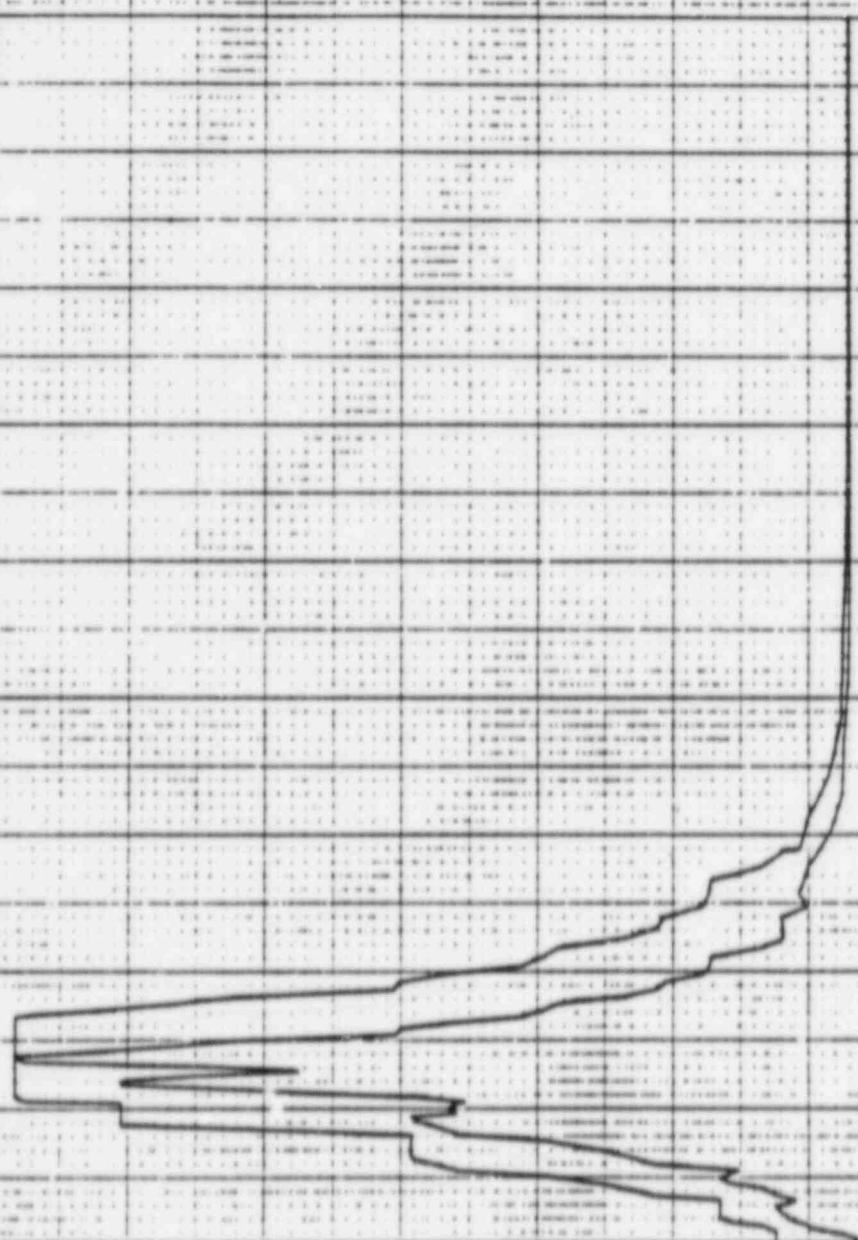
K. MAY

DAMPING VALUE = 0.020

SPECTRA VER 01 LEV 08  
DULF STATES UTILITIES-PBS UNIT 1-CALC12210-MMCT-SQE-1903 REV11)  
RMS OF ACC.-REACTOR BLDG. EL-193.00, MASS-24 SEIS MODEL-DRYNELL  
PEAK SPREAD -20% +25%

DISK CURVE SET NO.46  
3-D SSE VER DIRECTION  
NOTE: REACTOR BLDG. RMS PEAK SPREAD FROM 12210-001.130.184 182V 03

ACCELERATION  
0 0.50 1.00 1.50 2.00 2.50 3.00 3.50



10^0 10^1 10^2  
1 2 3 4 5 6 7 8 9 10  
FREQUENCY IN HZ



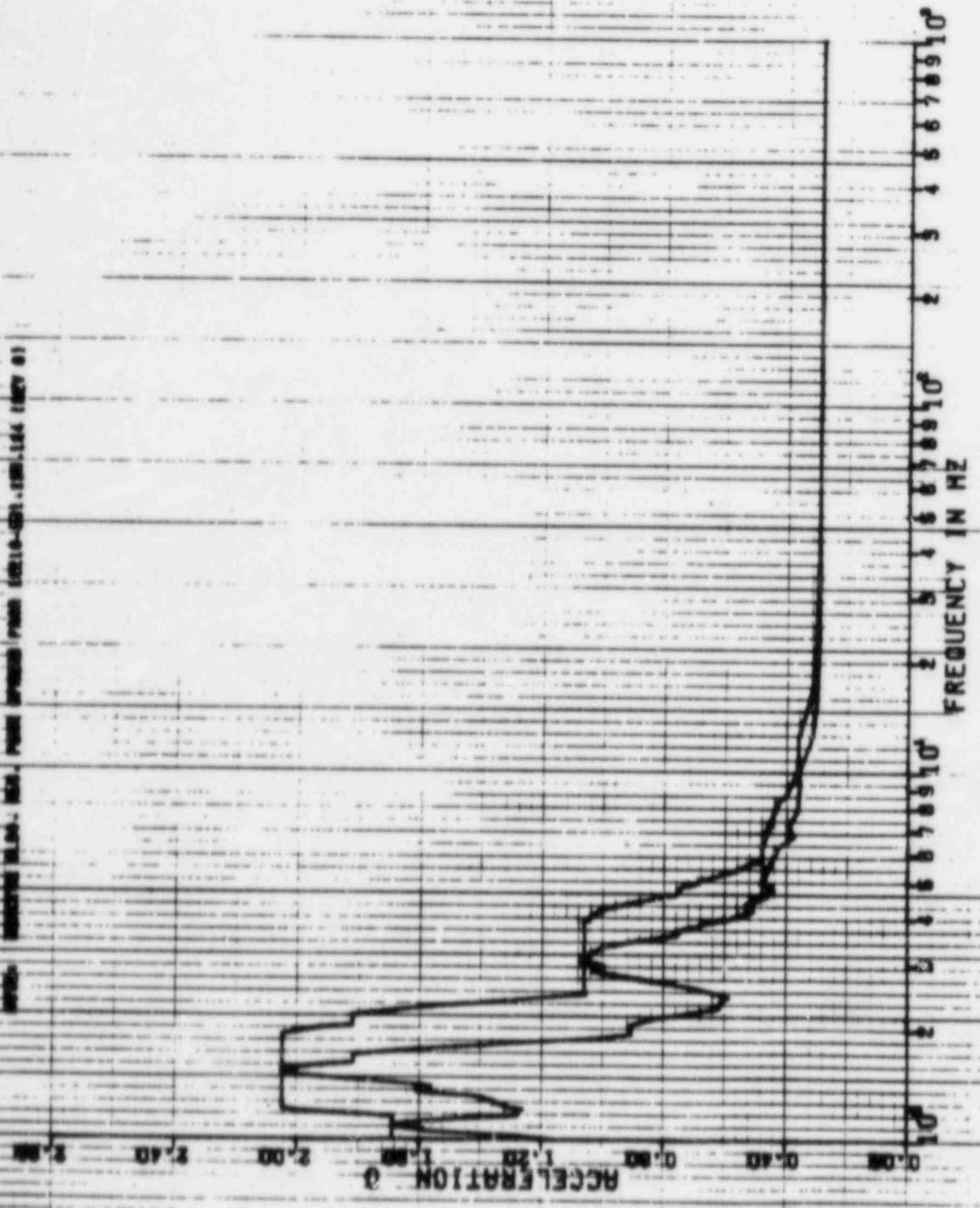
3.2: A

22 APR 1962

K. KAY

DAMPING VALUE = 0.050

PROJECTION VER 01 LEV 07  
 GULF STATE UTILITIES-ROB UNIT 1-CMLC12210-MHC1-302-1903 REV10  
 RES OF MCC-REACTOR BLDG-EL-133-00, RMS=23 BE18 MODEL-DEYWELL  
 PEAK RESPONSE 1-2005-362Z  
 DIBK CURVE NET NO. 48  
 1.0 GSE HOR DIRECTION  
 1.0 GSE HOR DIRECTION  
 1.0 GSE HOR DIRECTION



PSPECTRA VER 01 LEV 07

22 APR 1982

3019

DULF STATE UTILITIES-RBS UNIT 1-CALC12210-AM(C)-80E-1903 REV(0)

RBS OF ACC.-REACTOR BLDG. EL=199.00. MASS=24 SEIS MODEL-DRYWELL

PEAK SPREAD -20% -25%

SEE

K.KAY

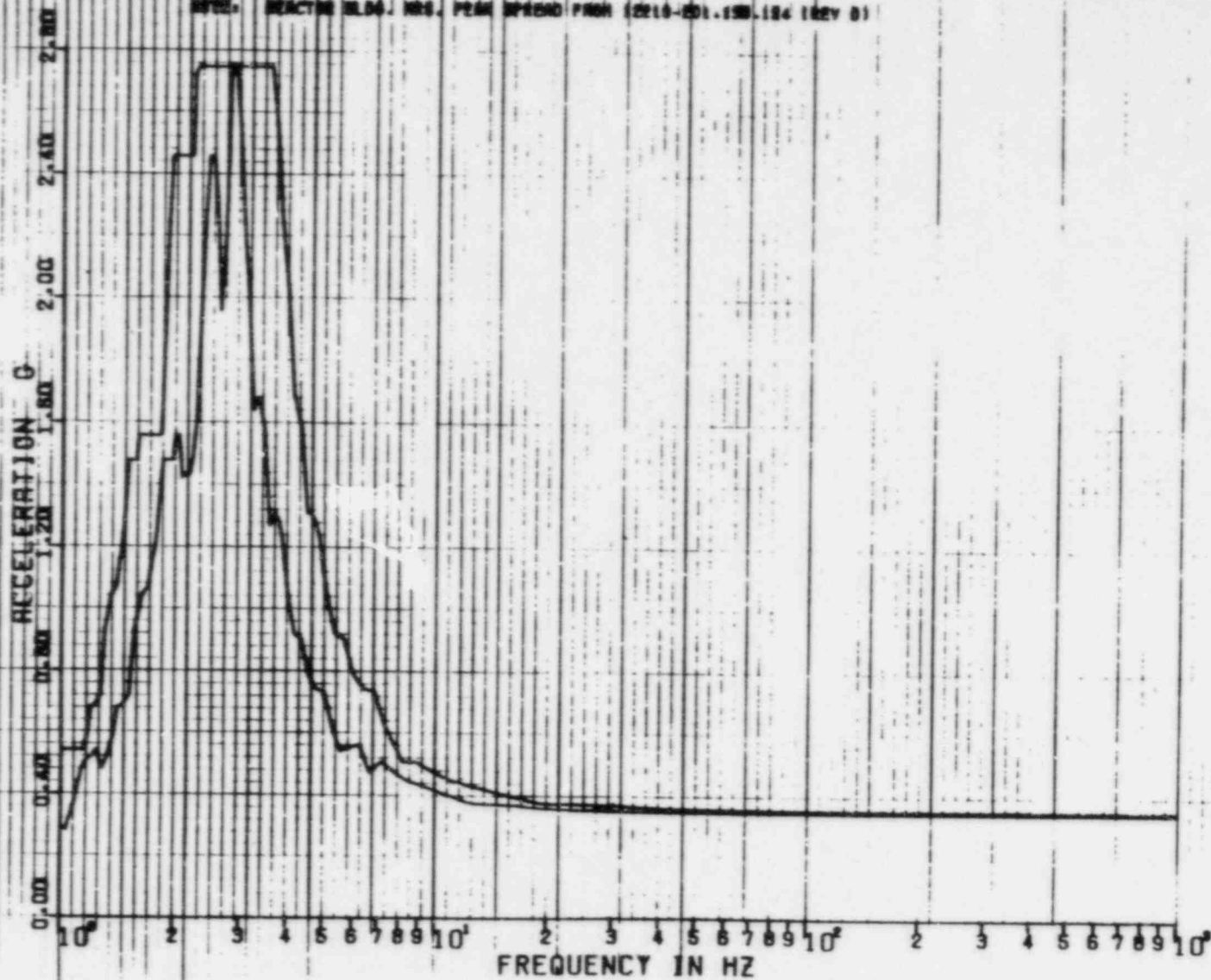
DISK CURVE SET NO. 45

1.0 SEE

VER DIRECTION

DAMPING VALUE = 0.030

NOTE: REACTOR BLDG. MASS, PEAK SPREAD FROM (2210-201.199.124 (REV 0))



REF 93

4

7

22 APR 1982

K. KAY

DAMPING VALUE = 0.040

#SPECTRA VER 01 LEV 07  
 OUP STATE UTILITIES-RBS UNIT 1-CALC1210-MNUC-508-1903-REV70  
 PPS OF ACC - REACTOR BLDG. EL-133.00. MASS-24 SETS MODEL-BRYWELL  
 PEAK SPEED - 202.4252  
 DISH CURVE SET NO. 46

1.0 SSE

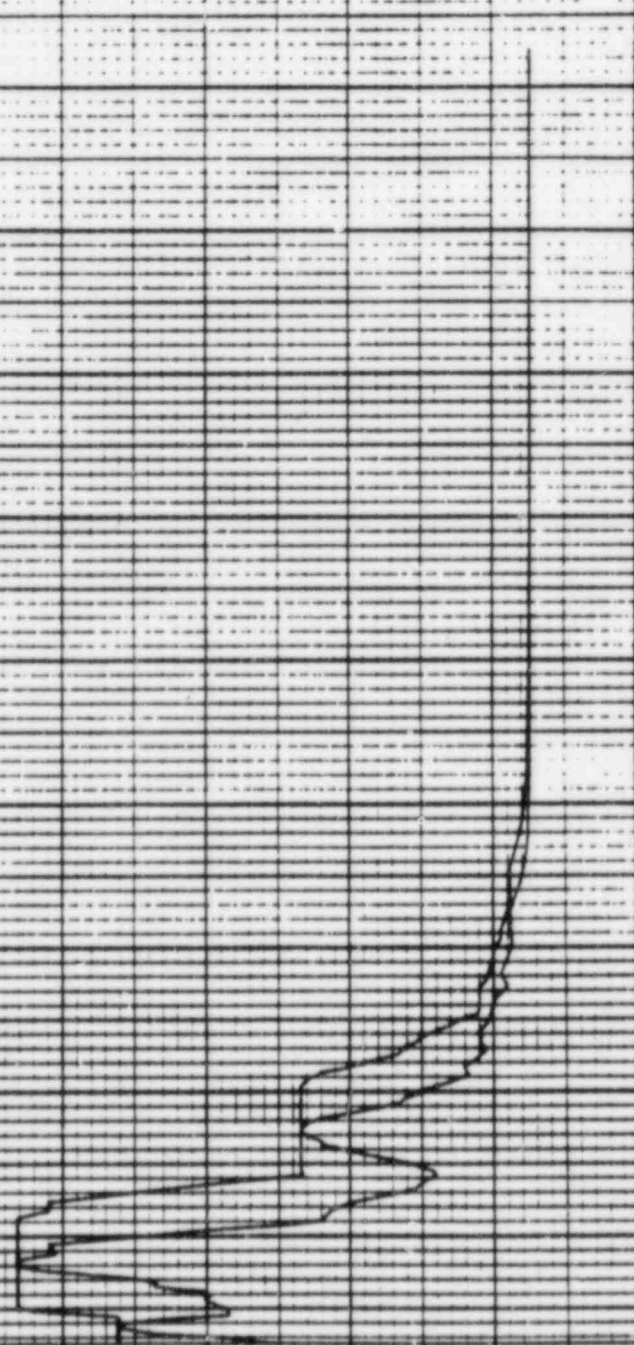
1.0 SSE

FOR DIRECTION

MODE: REACTOR BLDG. PPS. PEAK SPEED: 202.4252 MASS: 24.0000

ACCELERATION G

FREQUENCY IN HZ





7.1A

22 APR 1982

K. MAY

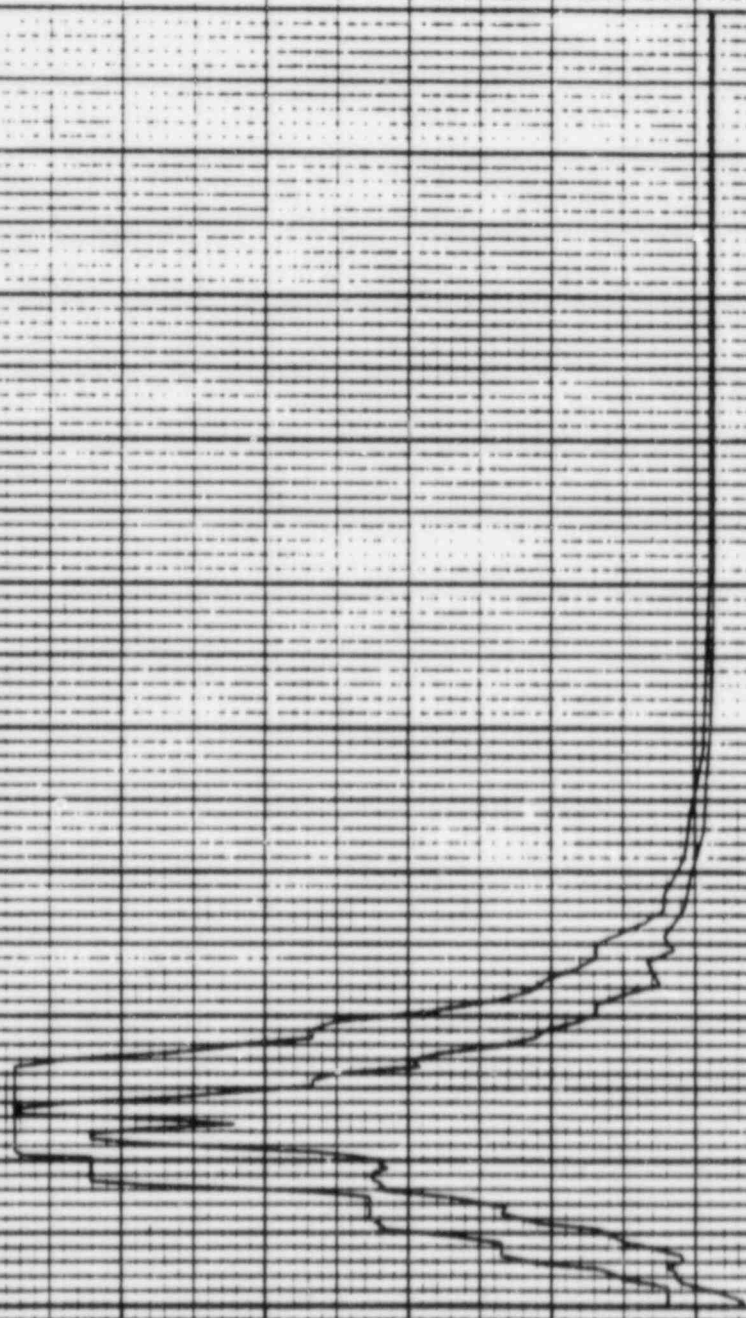
DAMPING VALUE = 0.010

PSPECTRA VER 01 LEV 07  
 GULF STATE UTILITIES-RBS UNIT 1-CALCULATED-WHITE-SOL-1982 REV 03  
 RPS OF ACC.-REACTOR BLOC. EL-133.00, MASS-21 SETS MODEL-DRYWELL  
 PEAK SPREAD LEAD 1.25  
 DISK CURVE SET NO. 16  
 VER. DIRECTION  
 1-D SSE

NOTE: REACTOR BLOC. HAS PEAK SPREAD FROM (2210-20) (50.24 LEV 01)

ACCELERATION G  
 0.00 0.40 0.80 1.20 1.60 2.00 2.40 2.80

FREQUENCY IN Hz  
 10<sup>0</sup> 2 3 4 5 6 7 8 9 10<sup>1</sup>



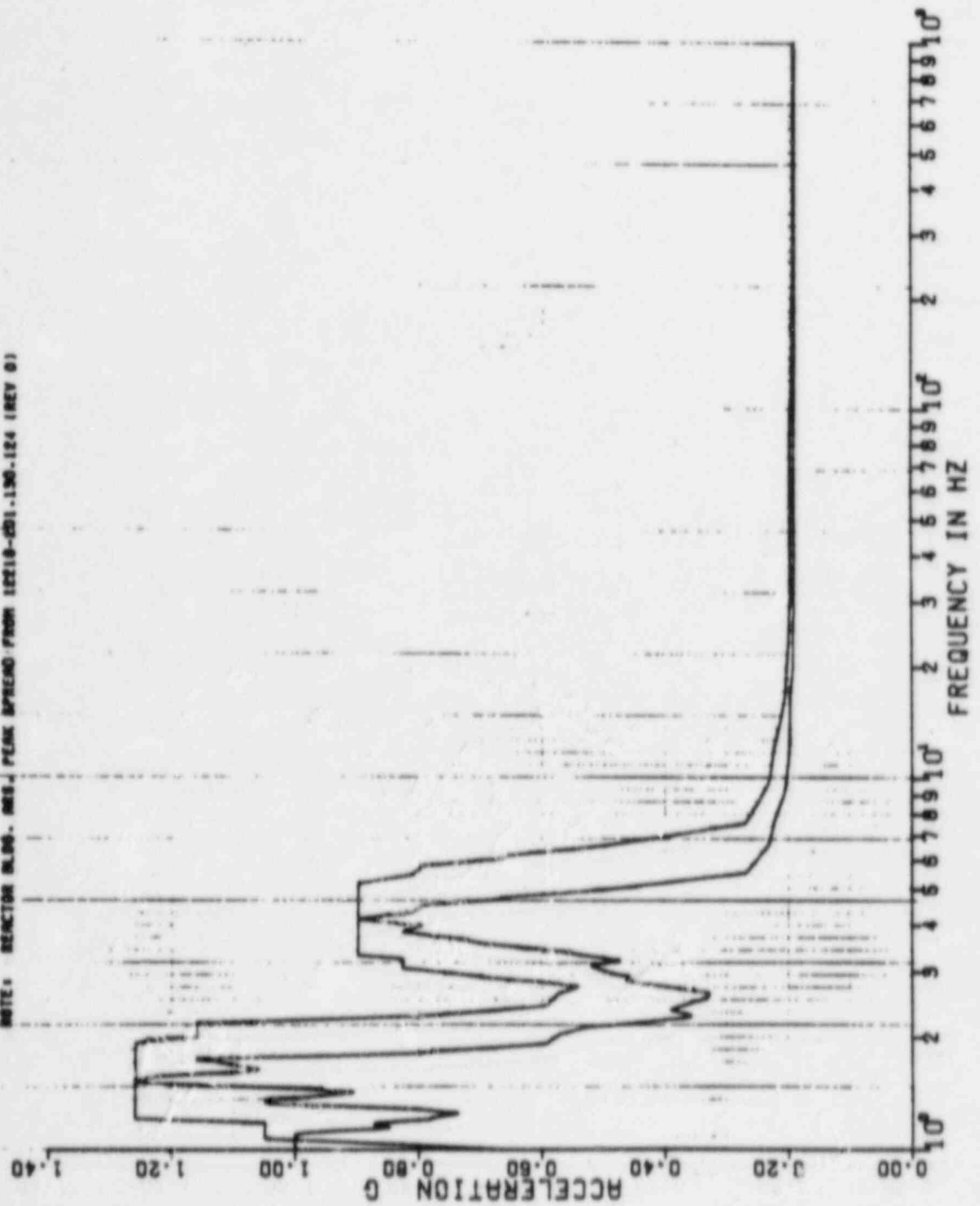
22 APR 1982

K. KAY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 07  
 OULF STATE UTILITIES-RBS UNIT 1-CALC12210-MM(C)-S0E-1903 REV(0)  
 RRS OF ACC.-REACTOR BLDG. EL=143.00, MASS=25 SEIS MODEL-DRYWELL  
 PEAK SPREAD -20Z,+25Z  
 DISK CURVE SET NO.47 0.5 SSE HOR DIRECTION

NOTE: REACTOR BLDG. MASS PEAK SPREAD FROM 10218-201-130-124 (REV 0)



PSPECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-RBS UNIT 1-CALC12?10-NM(C)-SDE-1903 REV(0)  
RBS OF ACC.-REACTOR BLDG-EL-143.00.MASS=25 SEIS MODEL-DRYWELL  
PEAK SPREAD -20%+25%

DISK CURVE SET NO.47

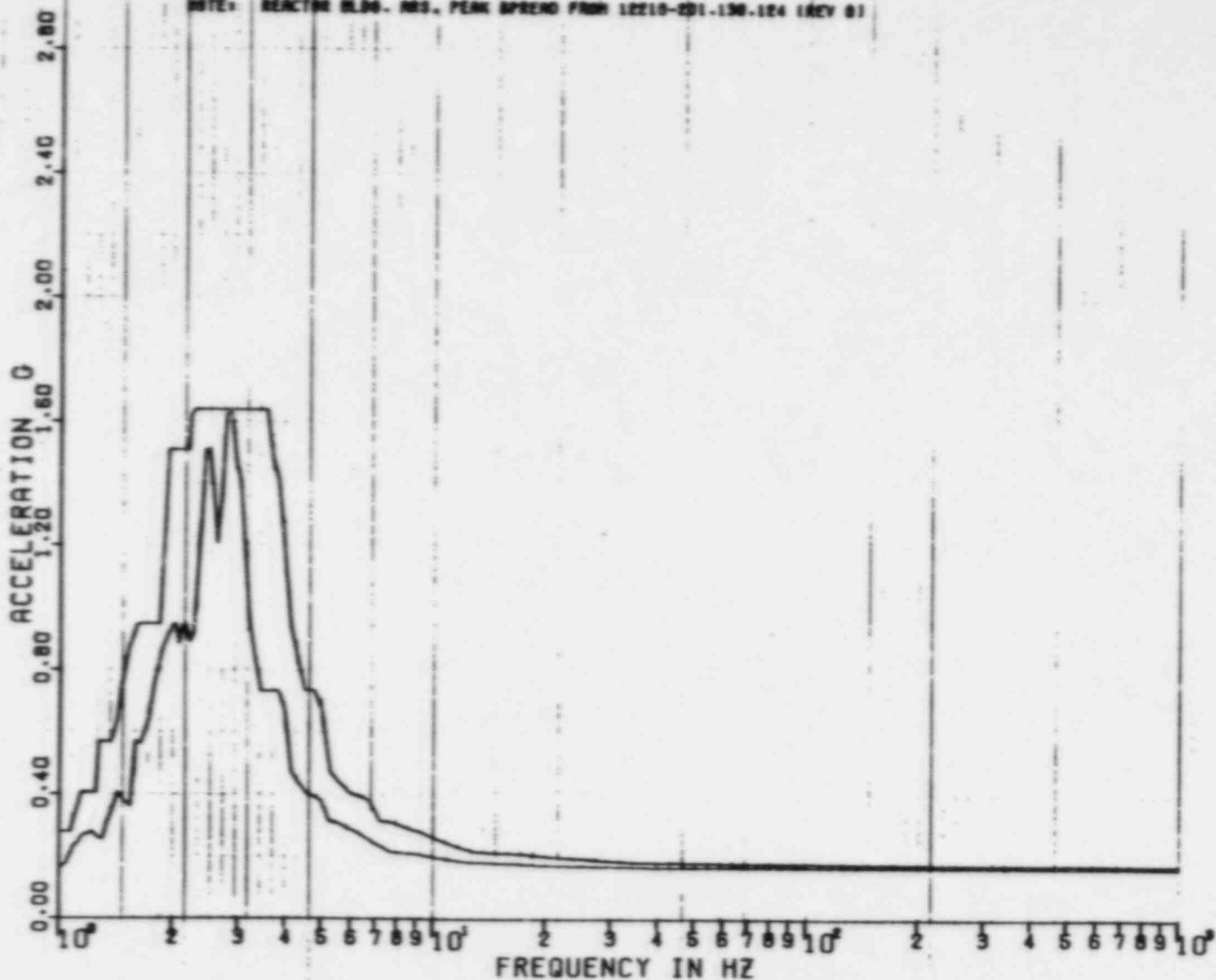
0.5 SSE

VER DIRECTION

K.KAY

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. MASS, PEAK SPREAD FROM 12210-201.130.124 (REV 01)



REF 94



676A

6 FEB 1965

K. KRY

DAMPING VALUE = 0.020

PSPECTRA VER. 01 LEV. 06  
DULF STATES UTILITIES-RDS UNIT 1-CALC12210-NH(CJ)-50E-1303 REV11)  
RMS OF ACC.-REACTOR BLDG. -EL-143-00-MAS6-25 5E16 MODEL-DRYWELL  
PEAK SPREAD -20% +25Z

1.0 55E MOR DIRECTION

NOTE: REACTOR BLDG. RMS PEAK SPREAD FROM 12210-201.150-124 12CV 01

DISK CURVE SET NO. 48

2.80

2.40

2.00

1.60

1.20

0.80

0.40

0.00

ACCELERATION

10<sup>0</sup>

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

291

292

293

294

295

296

297

298

299

300

301

302

303

304

305

306

307

308

309

310

311

312

313

314

315

316

&lt;

6474

8 FEB 1965

K. MAY

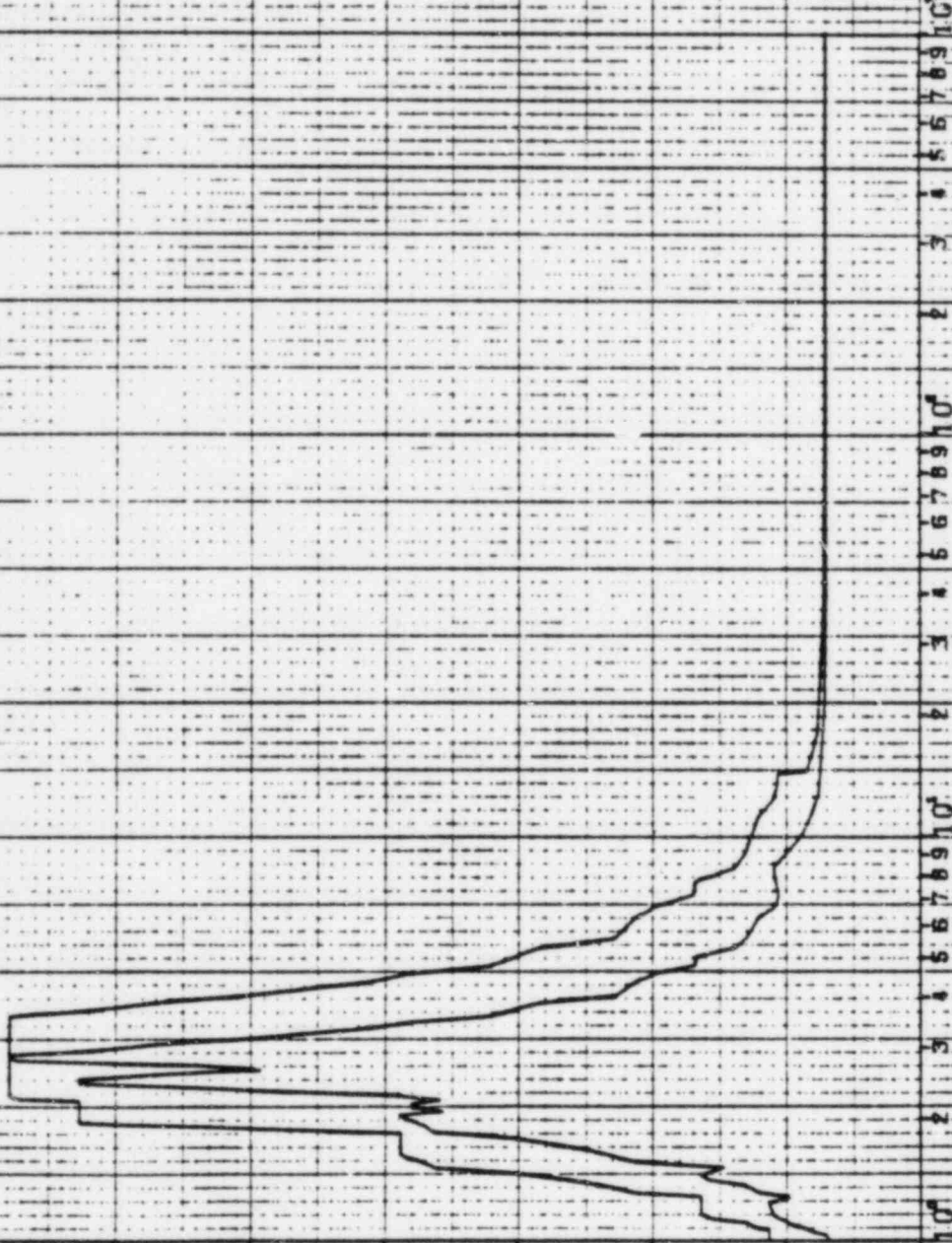
DRAWING VALUE = 0.020

PSPECTRA VER 01 LEV 06  
 GULF STATES UTILITIES-RBS UNIT 1-CRCL12210-NMIC1-SOE-1903 REV111  
 RRS OF ACC.-REACTOR BLDG.-EL-143.00,RRSS-25 6L16 MODEL-DRYHLL  
 PEAK SPREAD -20% +25%  
 DISK CURVE SET NO.46

1.0 55E VER DIRECTION

NOTE: REACTOR BLDG. RRS. PEAK SPREAD FROM 12210-001-136.124 TRAY D7

ACCELERATION G



FREQUENCY IN HZ

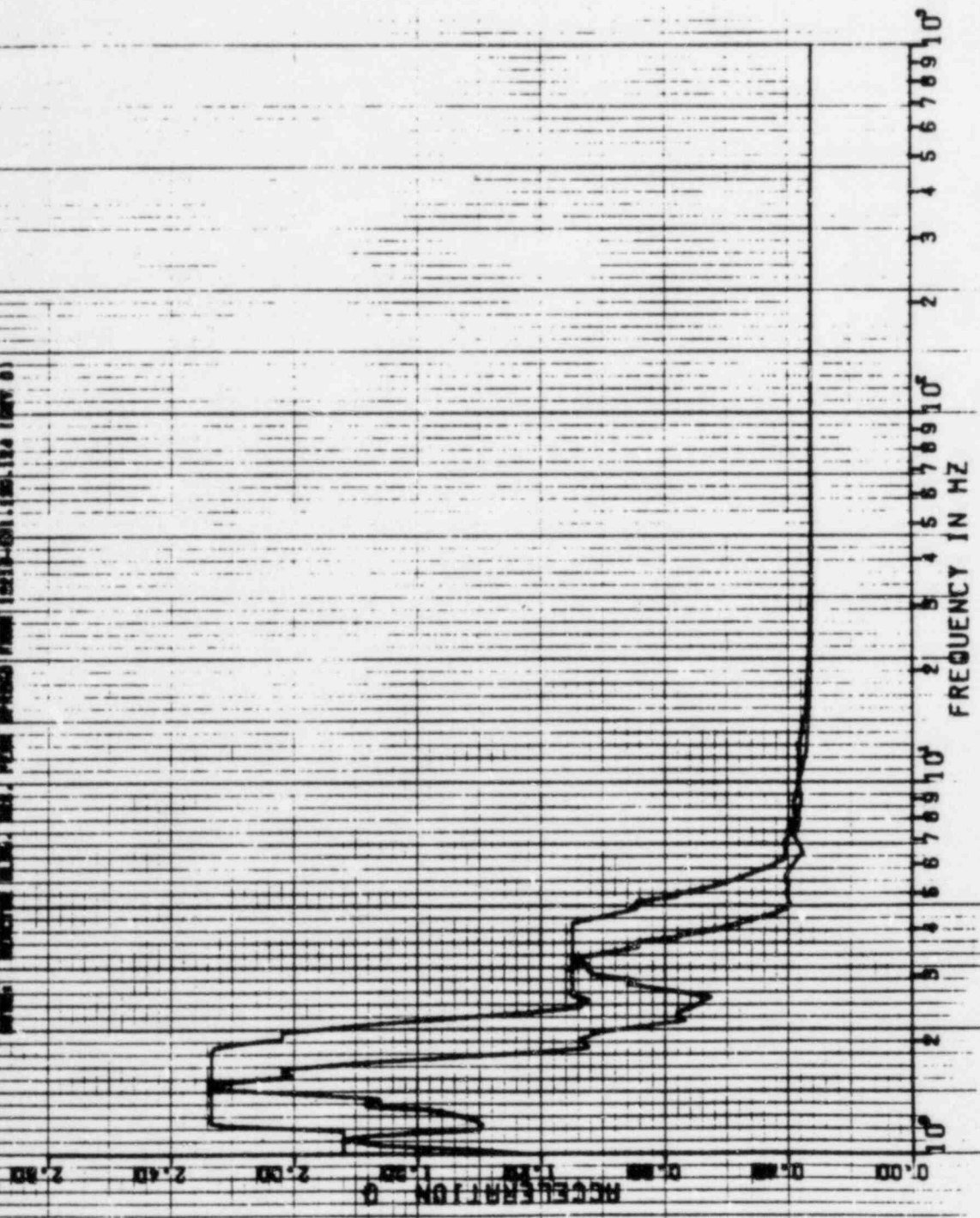
36 1

22 APR 1982

K. KAY

DAMPING VALUE = 0.050

PSPECTR VER 01 LEV 07  
 GULF STATE UTILITIES-RSS UNIT 1-CHL C12210-AN(C)-SDE-1903 REV(D)  
 ARE OF REC.-REACTOR BLDG.-EL-143.00, NRS66-25 SEIS MODEL-DRYWELL  
 PERK SPHERO.-202L.025X  
 DISK CURVE SET NO. 49  
 1-D SSE HOR DIRECTION  
 DATA INDICATED IN LOG. FILE. FROM SPHERO FROM (SEIS-001) (NO. 124 (REV B))





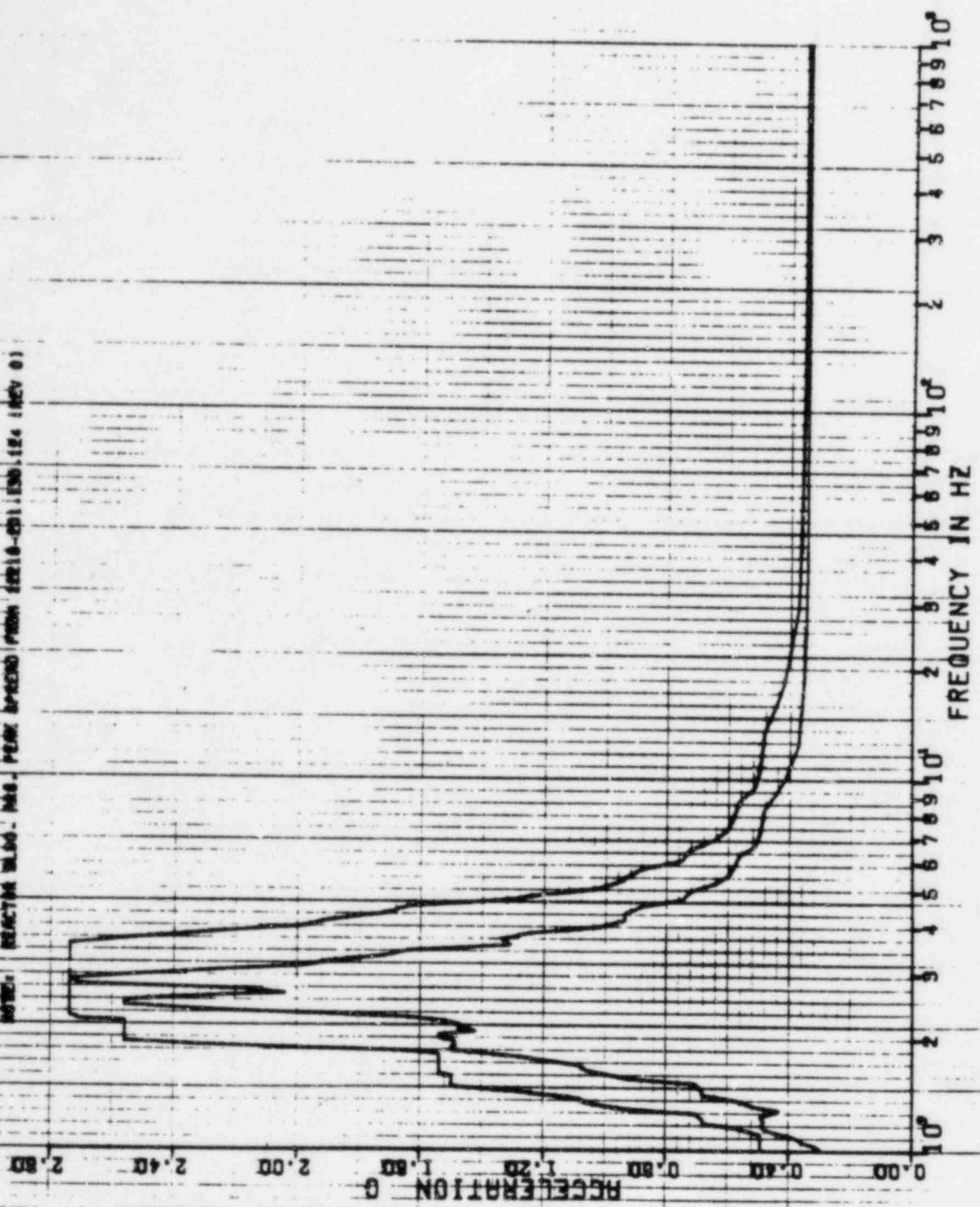
3-3-A

22 APR 1962

K. KAY

DAMPING VALUE = 0.030

PSPECTRA VER 01 LEV 07  
 DULF STATE UTILITIES-RBS UNIT 1-CALC12210-AM(C)-802-1903 REV10)  
 RRS OF ACC.-REACTOR BLDG.-EL-143.00.MASS=25 5E16 MODEL-DRYWELL  
 PEAK SPREAD -20%+25%  
 DISK CURVE SET NO.48  
 1.0 SSE VER DIRECTION  
 NOTE: REACTOR BLDG. HAS PEAK SPREAD FROM 221.6-251.836.124 (REV 0)





4481A

22 APR 1982

K. KRY

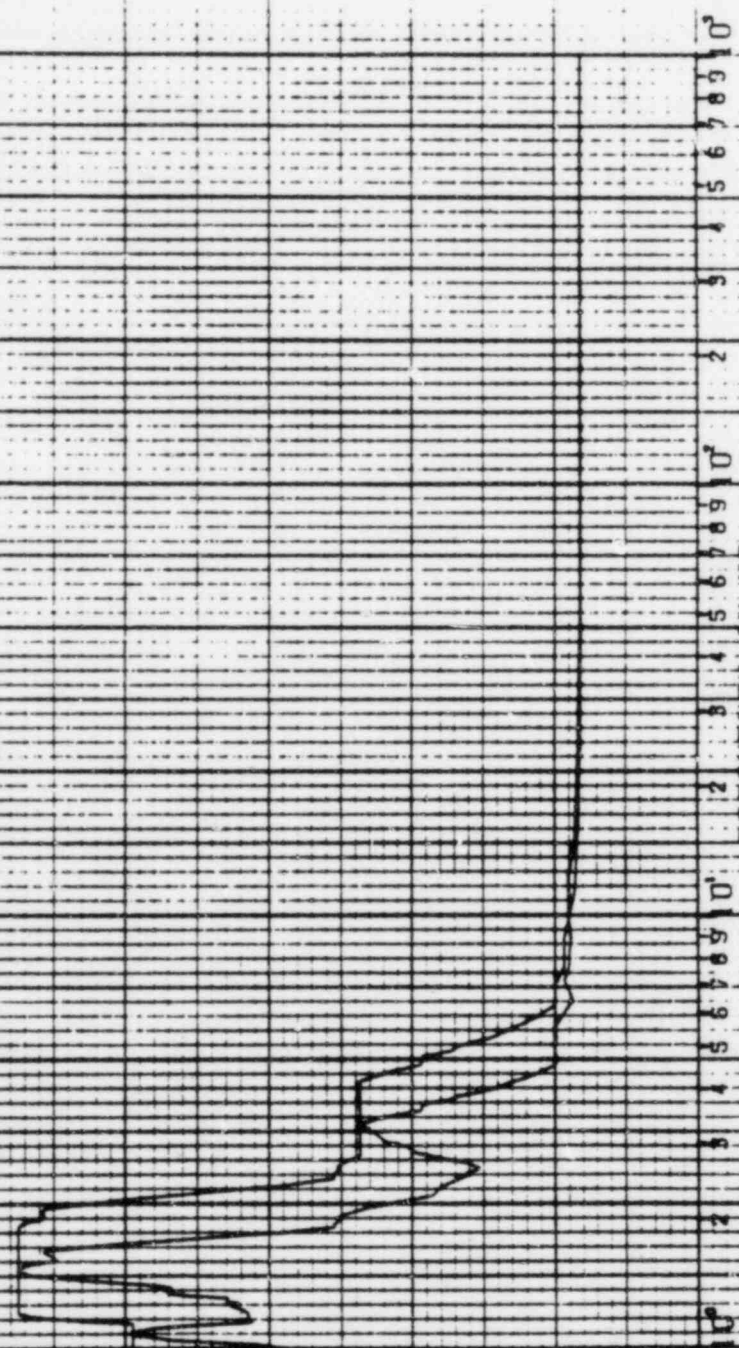
DAMPING VALUE = 0.010

SPECTRA VER 01 LEV 07  
 CULY STATE UTILITIES WBS UNIT 1 - CRLL 1220 - UNIT 1 - SDE - 1903 MEV 01  
 RES OF REC. REACTOR BLOC. EL = 149.00. MASS. 25 SE S. MODEL. ORYWELL  
 PEAK SPREAD = 207.1257

DISK CURVE SET NO. 10  
 1.0155E HOR DIRECTION

NOTE: REACTOR BLOC. HAS PEAK W/FRQD FROM 220.0-201.0 TO 14.1 (REV. 6)

ACCELERATION  
 0 0.50 1.00 1.50 2.00 2.50



10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup>  
 1 2 3 4 5 6 7 8 9 10  
 FREQUENCY IN HZ

22 APR 1982

R. KAY

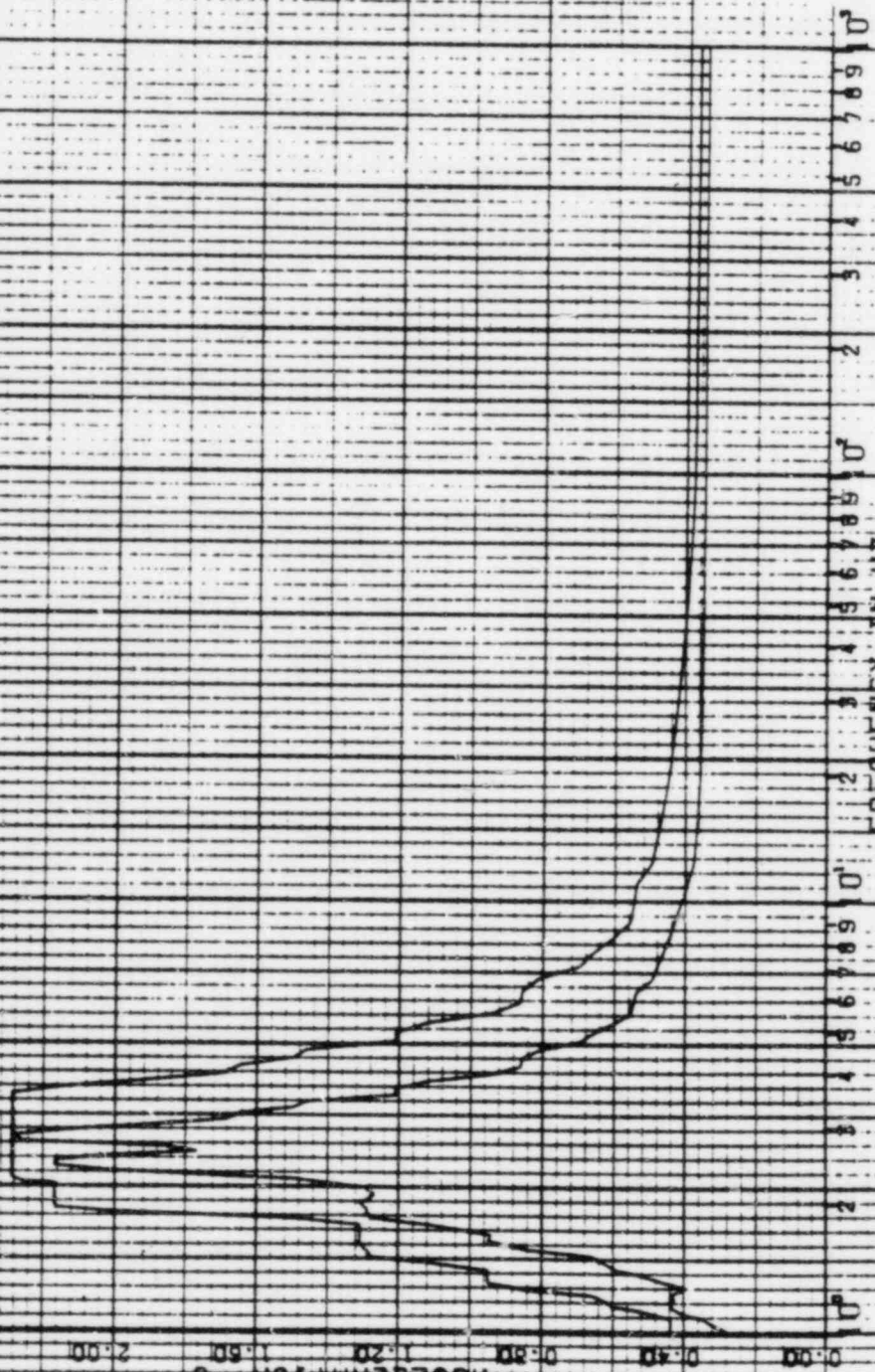
DAMPING VALUE = 0.010

SPECTRA VER DI LEY 07  
 GULF STATE UTILITIES RBS UNIT - CALC 2210-0-0010 - S0E - 903 REV 01  
 RMS OF ACC. REACTOR BLDG. EL. 13.00 MASS-25 SE S MODEL-DAYWELL  
 PEAK SPREAD - 207.352  
 DISK CURVE SET NO. 10

.0 SSE VER DIRECTION  
 NOTE: REACTOR BLDG. HAS PEAK SPREAD FROM 2210-0-201 130B 124A REV 01

ACCELERATION G

FREQUENCY IN HZ



22 APR 1982

K. KAY

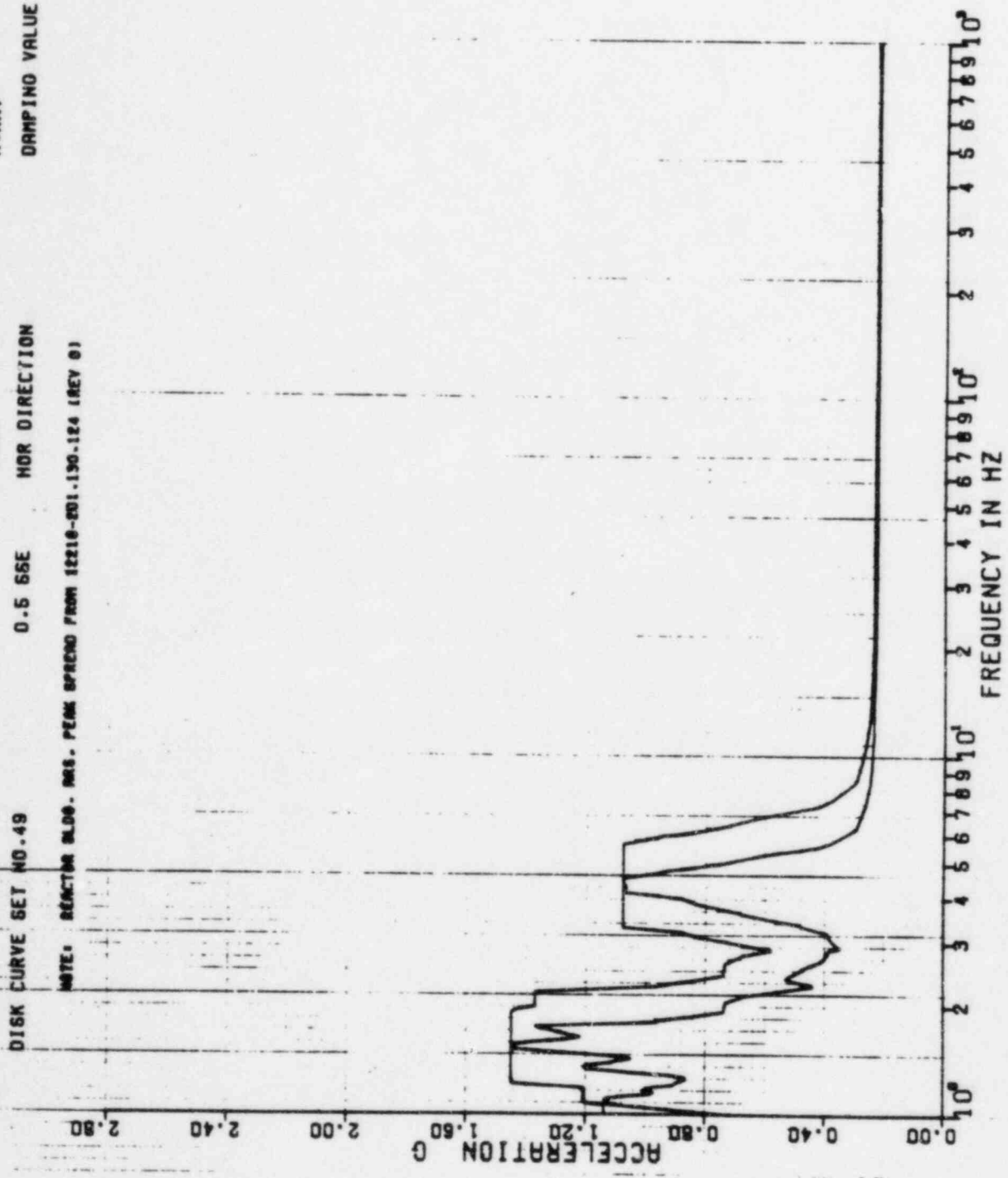
DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 07

OULF STATE UTILITIES-R86 UNIT 1-CALC(12210-NMIC)-SQE-1503 REV(10)  
RMS OF ACC.-REACTOR BLDG. EL=162.00, MASS=26 SEIS MODEL-DRYWELL  
PEAK SPREAD -20% +25%  
08E

DISK CURVE SET NO.49 0.5 55E HOR DIRECTION

NOTE: REACTOR BLDG. RMS. PEAK SPREAD FROM 12210-201.150.124 (REV 0)





22 APR 1982

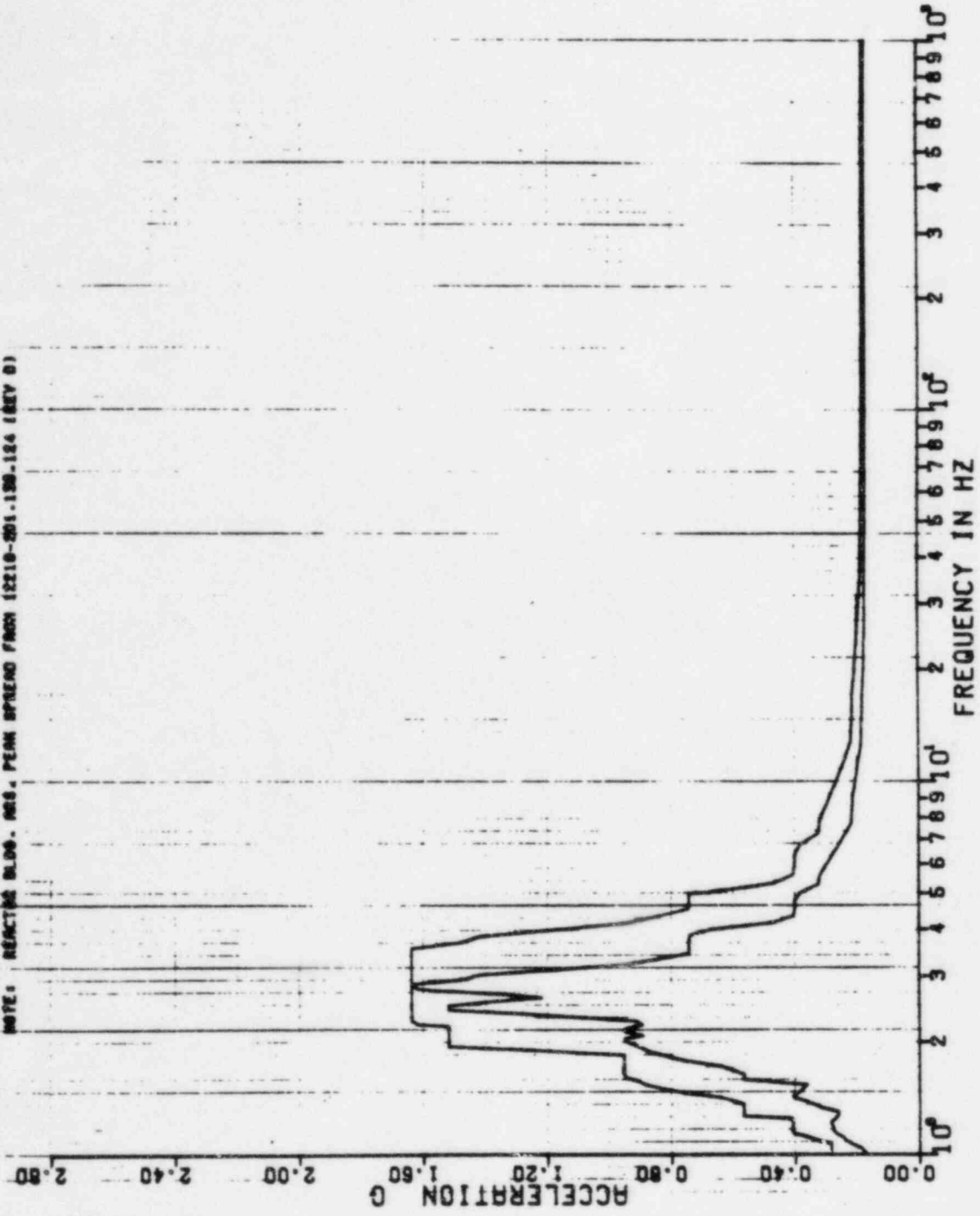
K.KAY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 07  
DULF STATE UTILITIES-R66 UNIT 1-CALC12210-MH.V.1)-50E-1903 REV10)  
RR6 OF ACC.-REACTOR BLDG.-EL=162.00.MAGS=26 SET6 MODEL-DRYNELL  
PEAK SPREAD -20%.+25%

DISK CURVE SET NO.49 0.5 SSE VER DIRECTION

NOTE: REACTOR BLDG. MAG. PEAK SPREAD FROM 12210-201-120-124 (REV 0)



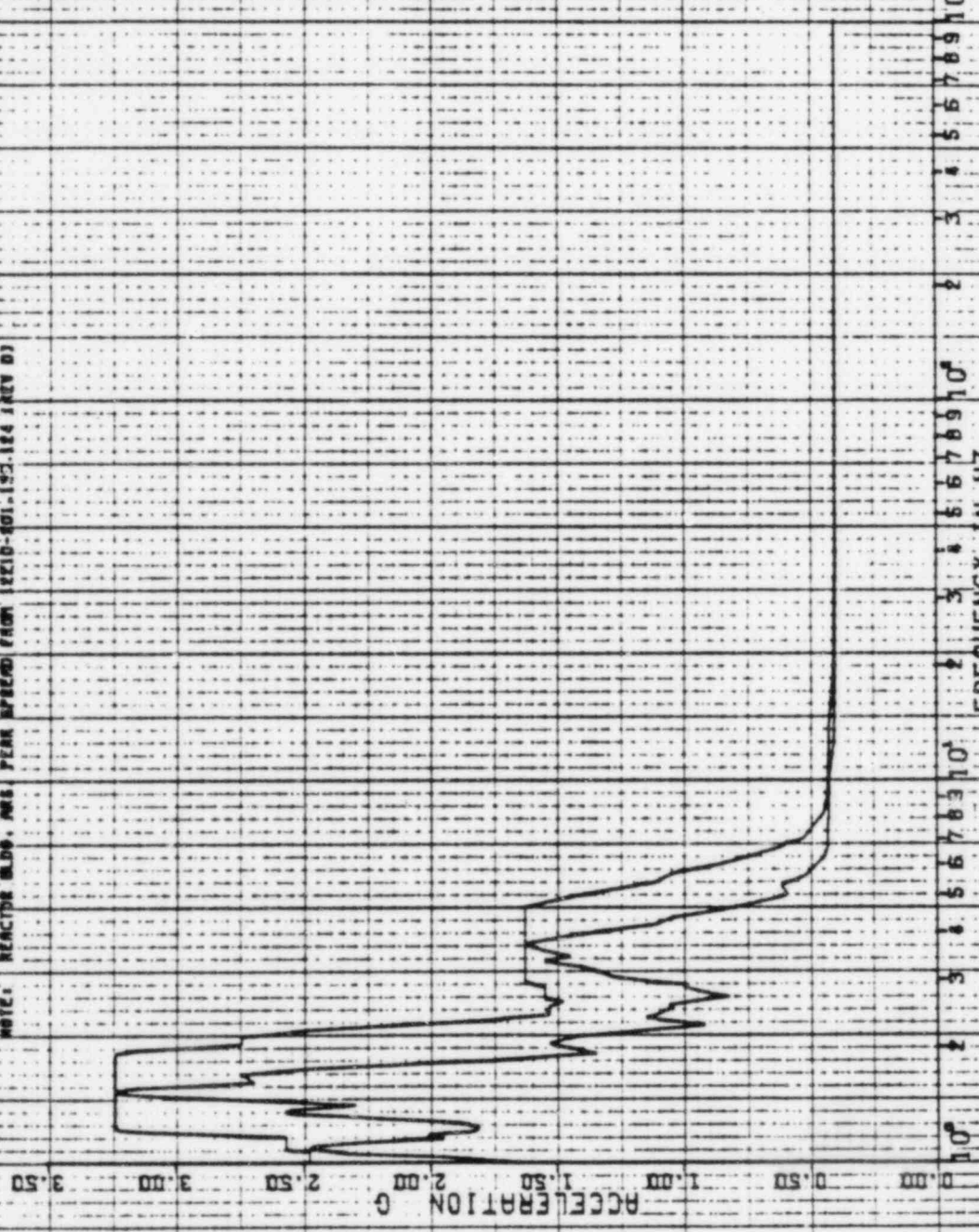
6 FEB 1963

K. KRY

DAMPING VALUE = 0.020

SPECTRA VER 01 LEV 06  
 GULF STATES UTILITIES-RSS UNIT 1-CALC12210-NH17-60E-1903 REV11)  
 RRS OF ACC.-REACTOR BLDG., EL-162.00, MASS-26.5E16 MODEL-DRYWELL  
 PEAK SPREAD -20% +25%  
 DISK CURVE SET NO. 50  
 NOTE: REACTOR BLDG. HAS PEAK SPEED FROM 1210-601.192.184 (REV D)

1.0 55E. HOR DIRECTION



5.678910<sup>3</sup>

5.678910<sup>2</sup>

5.678910<sup>1</sup>

3-11-71

8 FEB 1965

K. KRY

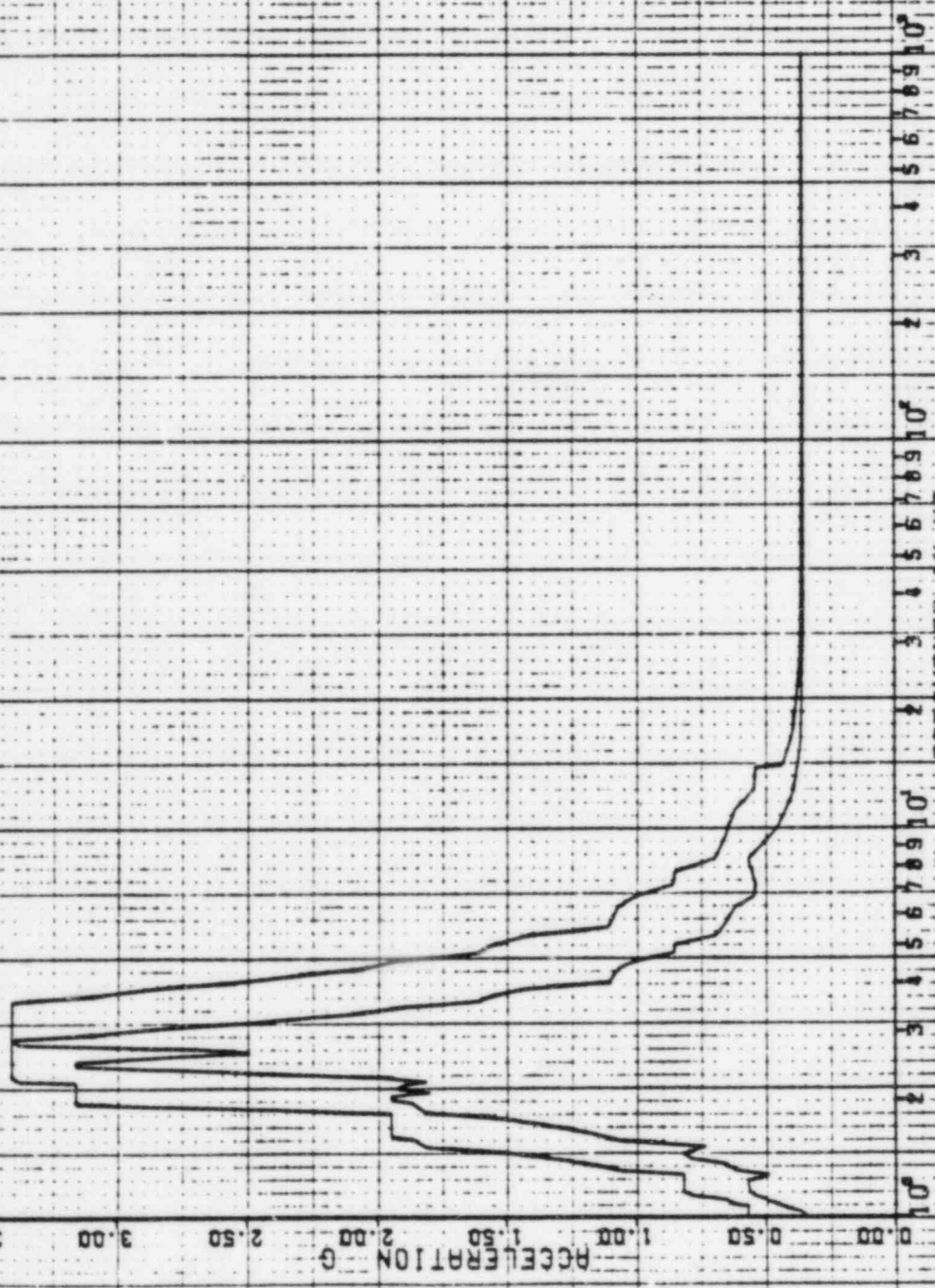
DAMPING VALUE = 0.020

UNIT 1-CALC12210-MM(C)-6DE-1903 REV(1)  
EL-162.00, MASS-26 5E16 MODEL-DRYNELL  
55E

1.0 55E. VER DIRECTION

NOTE: REACTOR BLDG. AHS. PEAK SPREAD FROM 12210-501.130.124 (REV D)

PSPECTRA VER 01 LEV 08  
CULF STATES UTILITIES-R06  
MRS OF ACC.-REACTOR BLDG.  
PEAK SPREAD -20% +25Z  
DISK CURVE SET NO.50



5.6769\*10^2  
3  
2  
10^3  
10^2  
10^1  
10^0  
FREQUENCY IN HZ



SPECTRA VER 01 LEV 07

22 APR 1982

3.14

GULF STATE UTILITIES-RSS UNIT 1-CALL 12210-NA(1)-SSE-1903 REV(0)  
RMS OF ACC.-REACTOR BLDG. EL=162.00.MASS=26 SEIS MODEL-DRYNELL  
PEAK SPREAD -20% → 25%

K.KAY

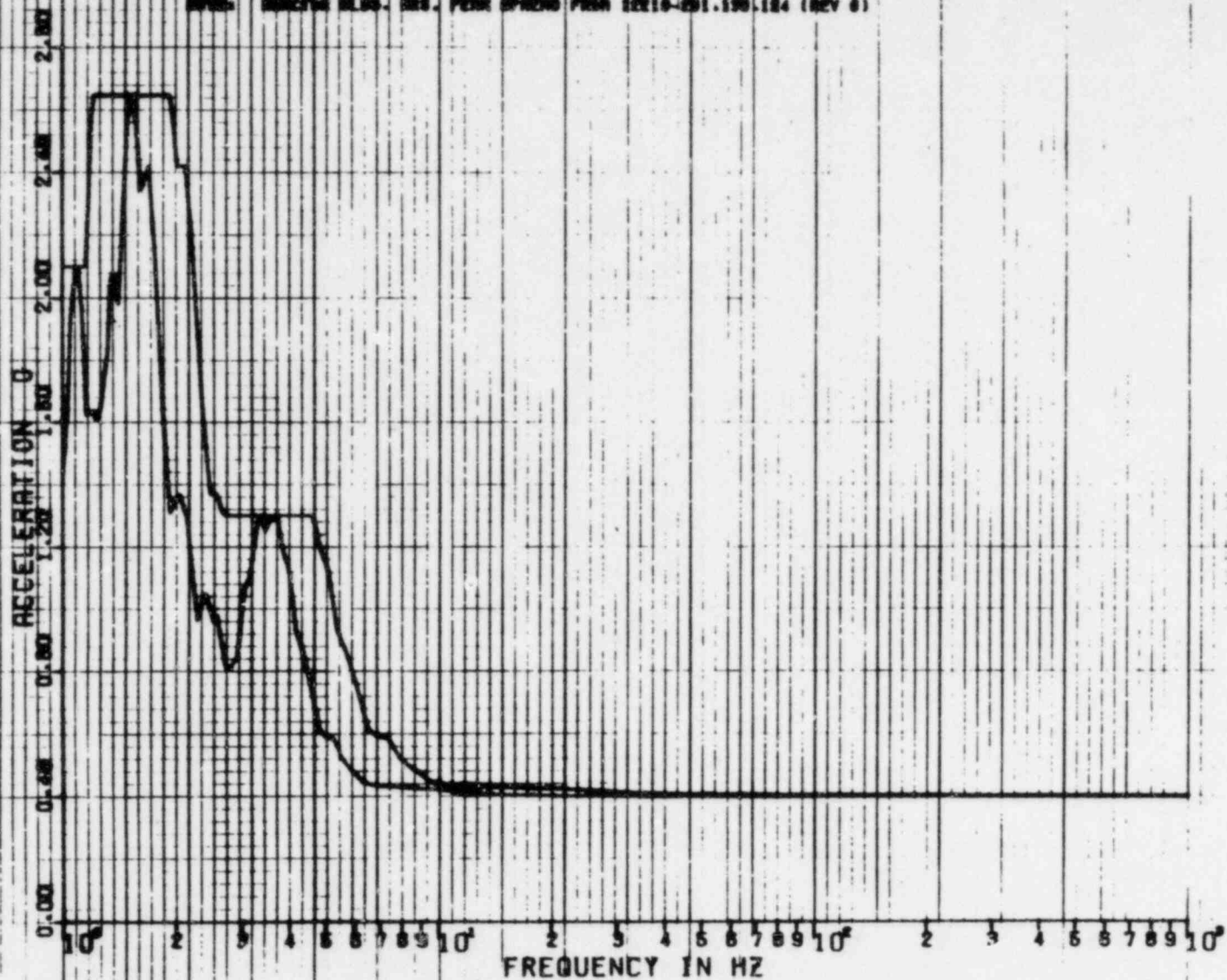
DISK CURVE SET NO.50

1.0 SSE

HOR DIRECTION

DAMPING VALUE = 0.030

UNIT: REACTOR BLDG. 004. PEAK SPREAD FROM 12210-001.190.124 (REV 01)



REF 95



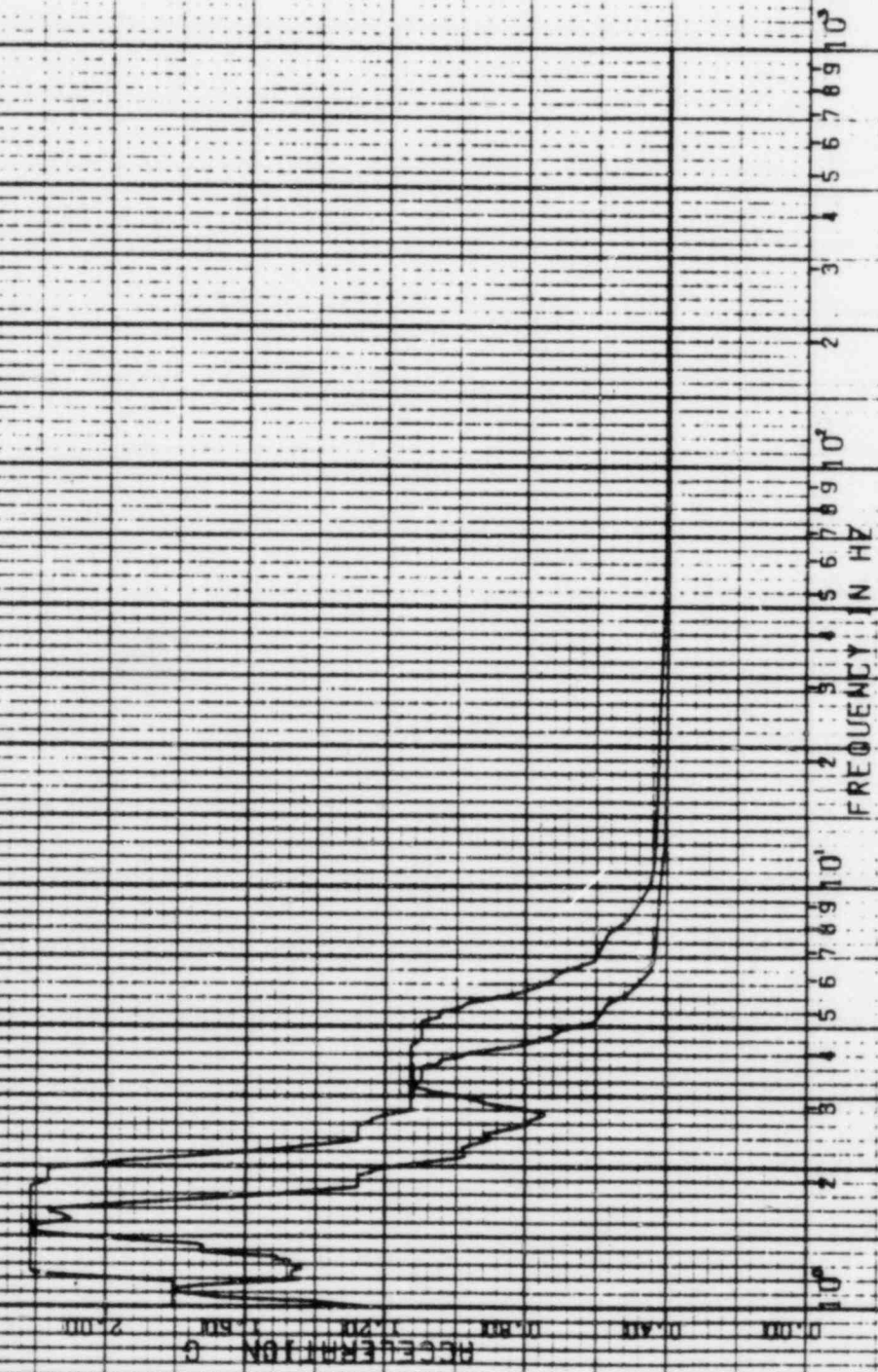
730A

22 APR 1982

K. KRY

DAMPING VALUE = 0.040

PEPECTRA VER DE LEV D7  
 GULF STATE UTILITIES RBBS UNIT 1 CALLEZZIO-NH17-501-1909 REV 0)  
 RMS OF ACC-REACTOR BLDG-ELL-182-00-WASS-26 SEIS MODEL DRYWELL  
 PEAK SPREAD 1.20V-1.25V  
 DISK CURVE SET NO. 50  
 1-DI 55E HDR DIRECTION  
 NOTE: REACTOR BLDG Acc. Peak Spread (Moh 4230-201.150.14 18V U)





11A

22 APR 1982

X-KRY

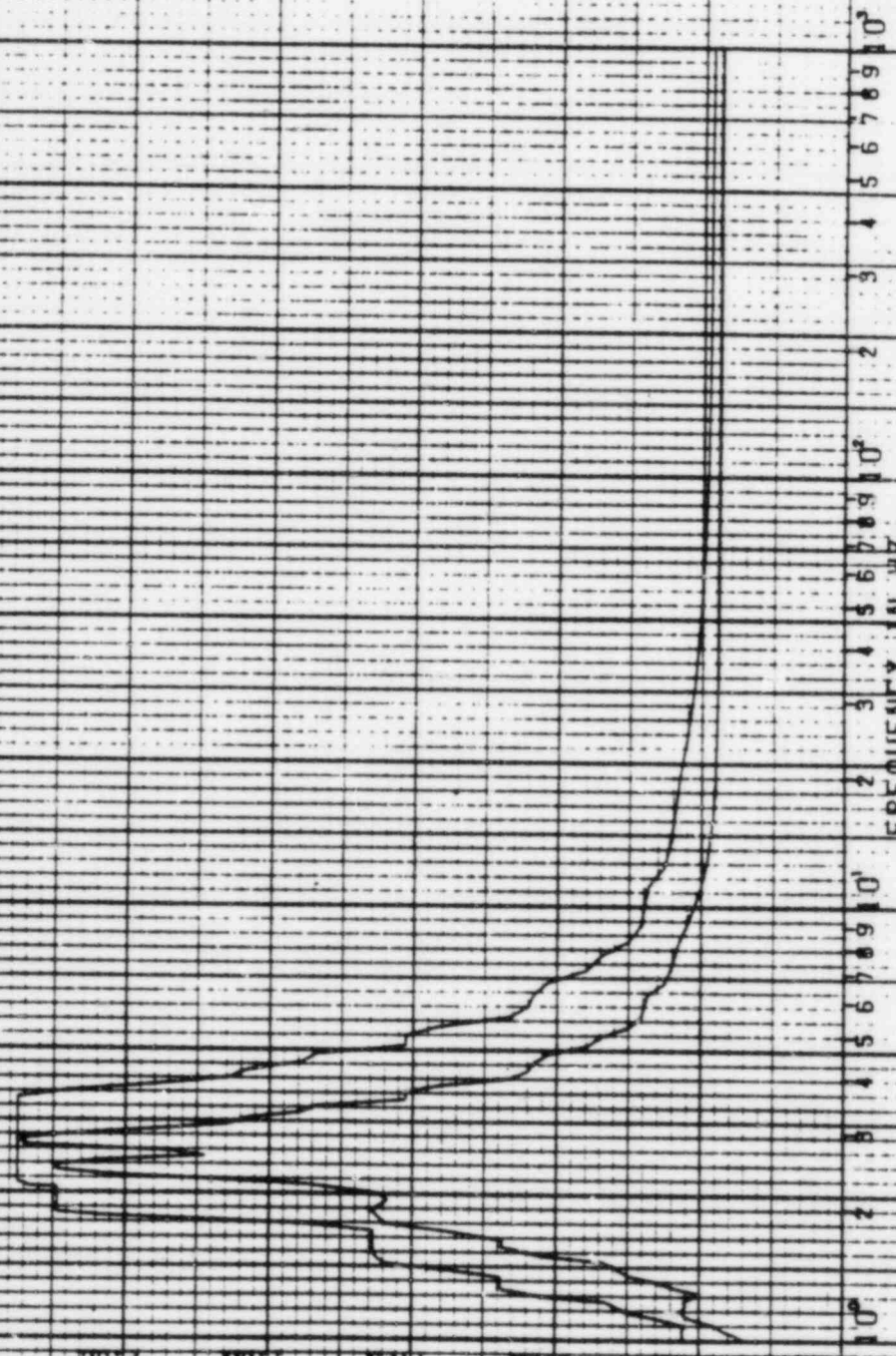
DAMPING VALUE = 0.020

PEPECTRA VER: DI LEV: D7  
 CULY STATE UTILITIES-KBS UNIV. CALIF. 12210-NHTCO-SOE-1908 MEV D3  
 RRS OF ACC-REACTOR BLDG-EL-162-DD. MASS-85 SETS MODEL-DRYWELL  
 PEAK SPEED 1.20V 1.25K  
 SEE  
 DISK CURVE SET NO. 150

A-DI 55E VER DIRECTION

WAVE: REACTION BLDG. MASS. PEAK SPEED / MCH 12210-NHTCO (SO. 12 1 REV 0)

0.000  
 0.400  
 0.800  
 1.200  
 1.600  
 2.000  
 2.400  
 2.800  
 RECELERRATION G



10<sup>0</sup>  
 10<sup>1</sup>  
 10<sup>2</sup>  
 FREQUENCY IN HZ  
 1 2 3 4 5 6 7 8 9 10  
 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup>

PSPECTRA VER 01 LEV 07

22 APR 1982

25

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NMIC)-8QE-1903 REV10)

RRS OF ACC.-REACTOR BLDG.EL=185.00,MASS=27 SEIS MODEL-DRYWELL

PEAK SPREAD -20%,+25%

OBE

K.KAY

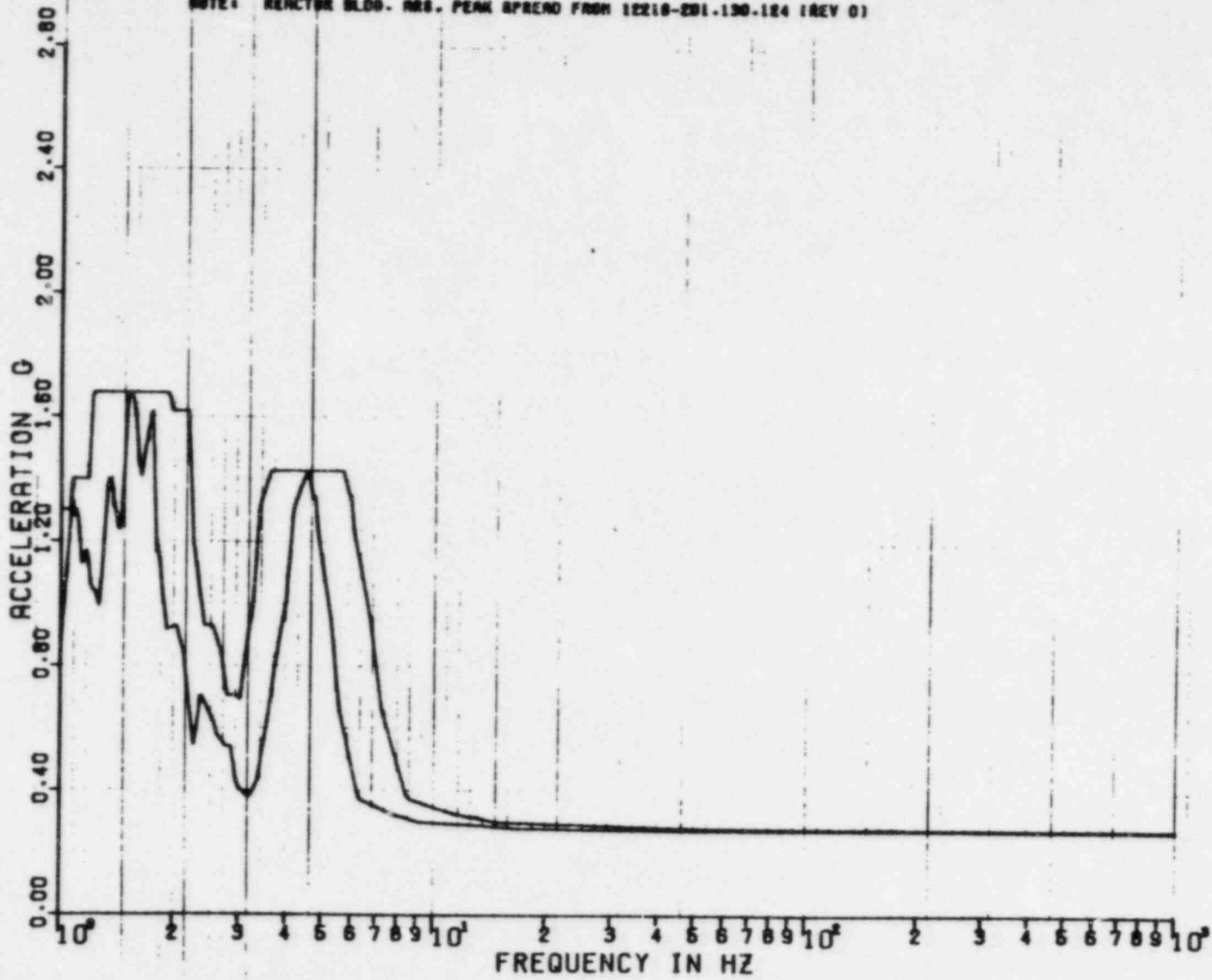
DISK CURVE SET NO.51

0.6 SSE

HOR DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RRS. PEAK SPREAD FROM 12210-201.130.124 (REV 01)



REF 96

PSPECTRA VER 01 LEV 07

22 APR 1982

DULF STATE UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(0)  
RR6 OF ACC.-REACTOR BLDG.EL=185.00,MASS=27 6E16 MODEL-DRYWELL  
PEAK SPREAD -20%,+25%

K.KAY

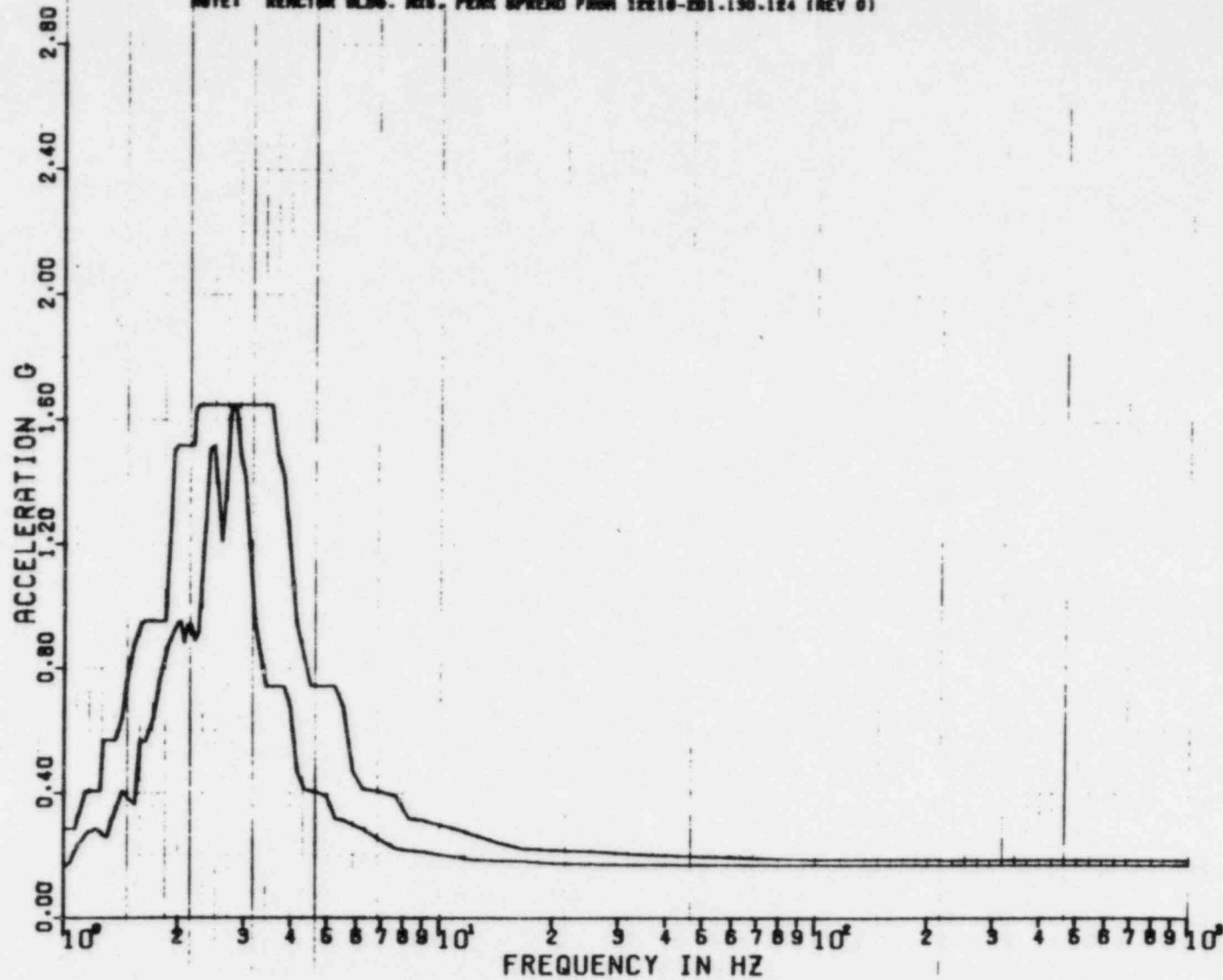
DISK CURVE SET NO.61

0.5 SSE

VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RES. PEAK SPREAD FROM 12210-201.130-124 (REV 0)



REF 96



1574

6 FEB 1963

K. KRY

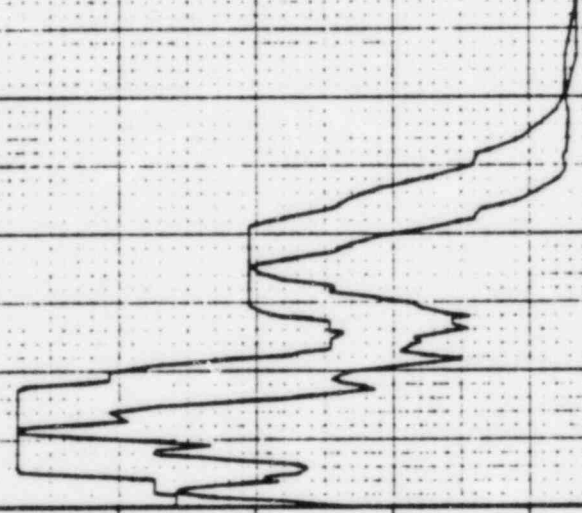
DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 08  
GULF STATES UTILITIES-RBS UNIT 1-CALC121210-NM1C1-5DE-1903 REV11)  
PKS OF ACC.-REACTOR BLDG. FL=185.00, MASS=27 5E16 MODEL-DRYWELL  
PEAK SPREAD -20% +25%

DISK CURVE SET NO.52  
1.0 55E HOR DIRECTION

NOTE: REACTOR BLDG. PKB PEAK SPREAD FROM (2210-201.150-124 (REV 0)

ACCELERATION G  
5.60  
4.80  
4.00  
3.20  
2.40  
1.60  
0.80  
0.00



10<sup>0</sup> 10<sup>1</sup>  
2 3 4 5 6 7 8 9 10<sup>0</sup>  
2 3 4 5 6 7 8 9 10<sup>0</sup>  
2 3 4 5 6 7 8 9 10<sup>0</sup>  
FREQUENCY IN HZ

6574

8 FEB 1963

K. KRY

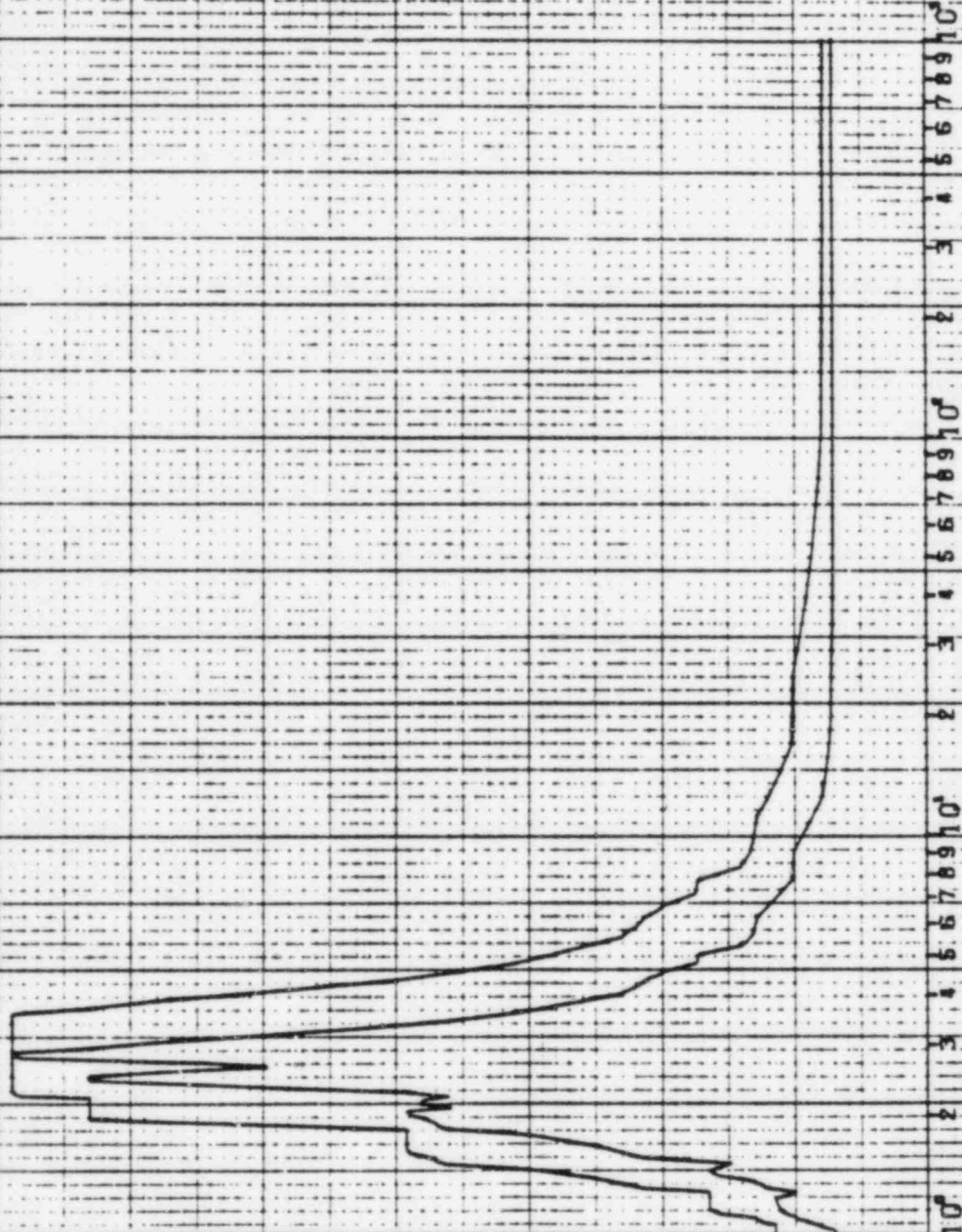
DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 08  
 GULF STATES UTILITIES-RDS UNIT 1-CALC12210-MNIC1-50E-1803 REV111  
 RRS OF ACC.-REACTOR BLDG.-EL=185.00.MASS=27 6E16 MODEL-DRYWELL  
 PEAK SPREAD -20% +25%

1-D 65E VER DIRECTION

NOTE: REACTOR BLDG. HAS PEAK SPREAD FROM 1E10-201.130-1E4 (REV B)

ACCELERATION G



FREQUENCY IN HZ

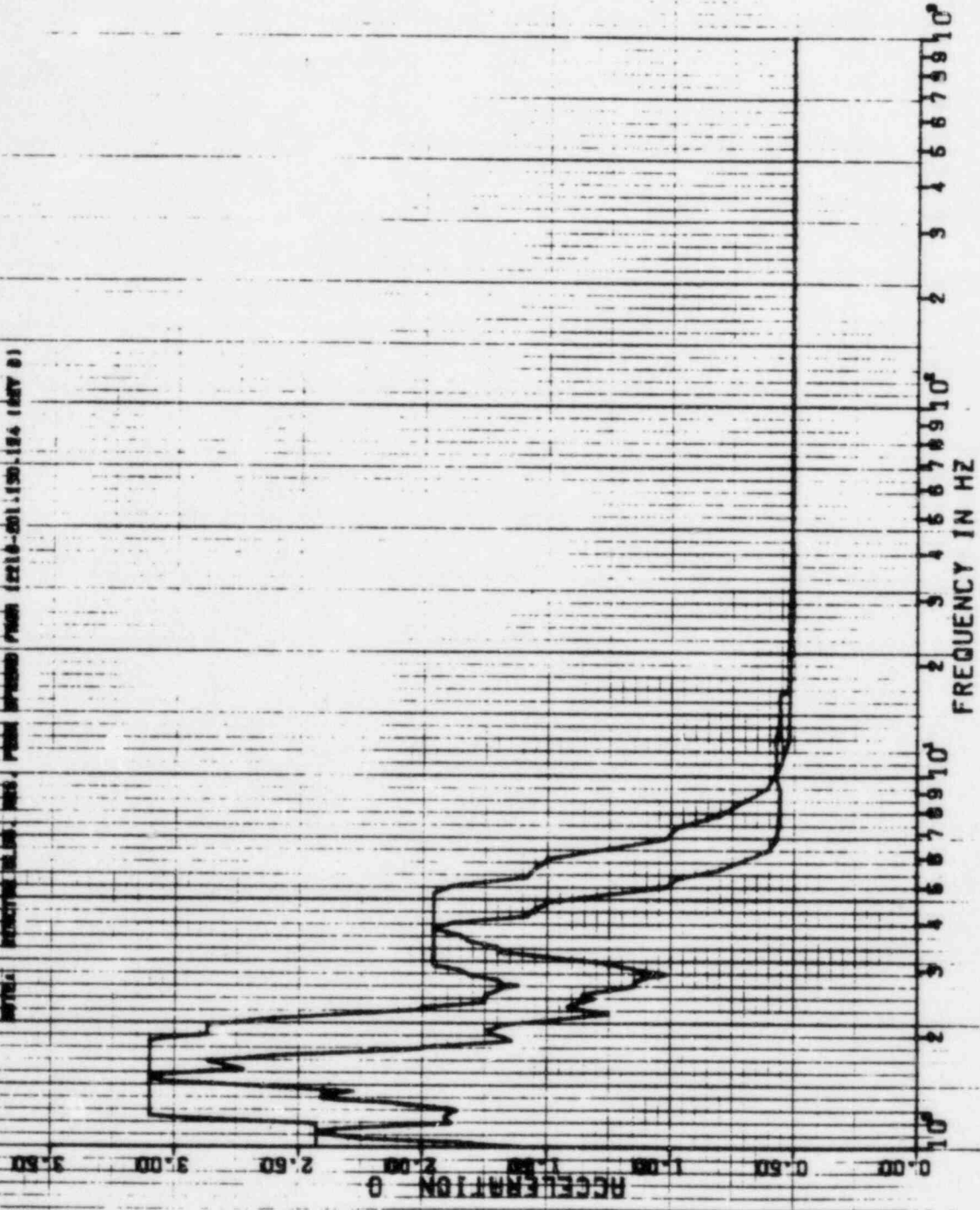
350 A

22 APR 1982

K. KAY

DAMPING VALUE = 0.030

SPECTRA VER D1 LEV 07  
 DULF STATE UTILITIES-RBS UNIT 1-CALC12210-NM1(C)-8UE-1909 REV(0)  
 NRS OF REC.-REACTOR BLDG. EL=185.00. NRSS=27 SEIS MODEL-DRYWELL  
 PERK SPEND -20%+25%  
 DISK CURVE SEV NO.52  
 1.0 SSE HOR DIRECTION  
 DATA: REACTOR BLDG. RES. FROM SPEND FROM (2210-201.150.154 (MAY 8))





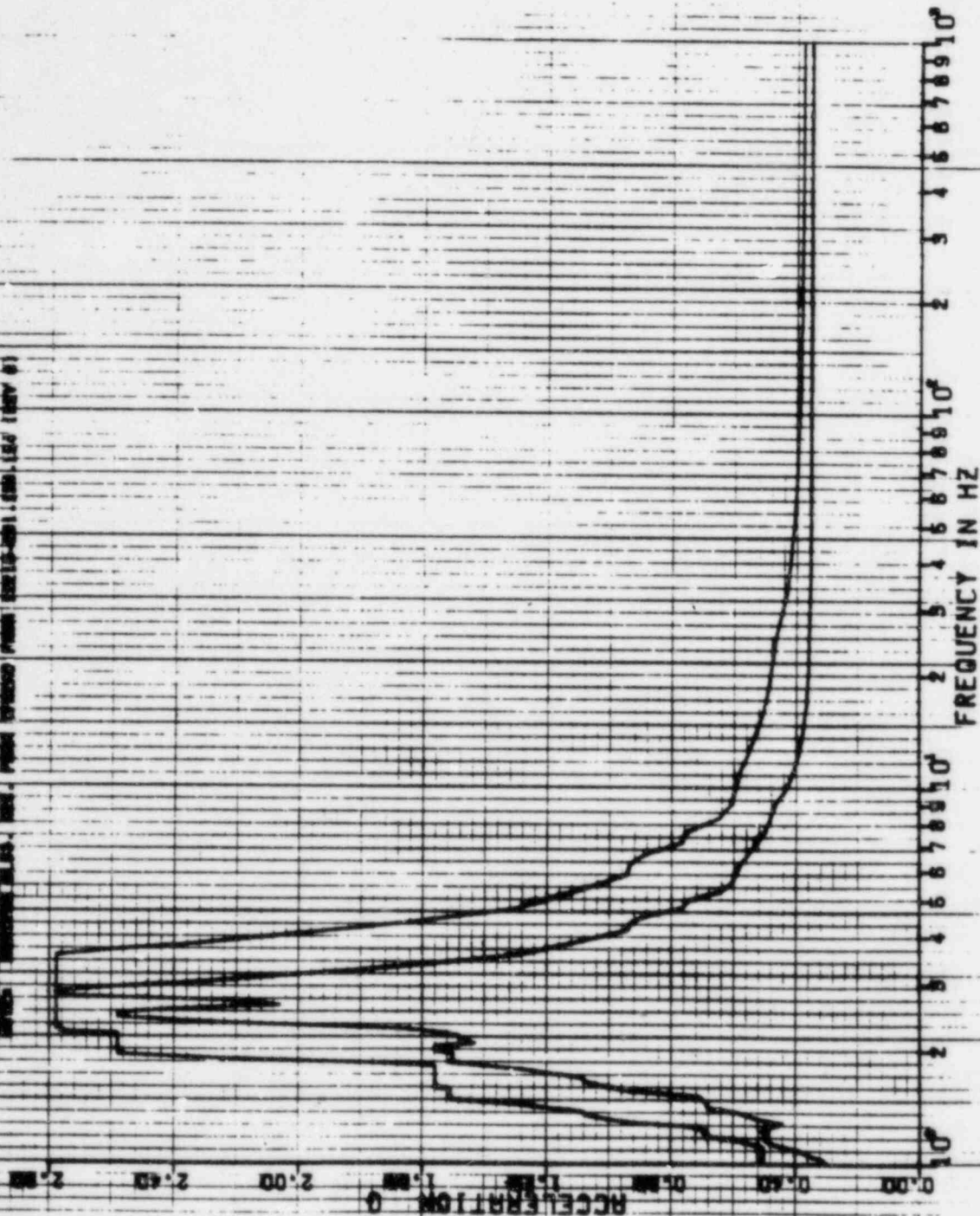
22 APR 1982

3h/A

K-MAY

DAMPING VALUE = 0.050

PEPELINA VER 01 LEY 07  
 MEX P. STATE UTILITIES-RDS UNIT 1-CALCICIZTIO-MEXICO-58E-1903 REV 01  
 RES OF INC.-REACTOR BLDG. EL-106.00.NASS-27 SE16 MODEL-ORYNELL  
 PERM. REF. NO. 2071-25Z  
 DISA CURVE SET NO. 52  
 1.0 SSE VER DIRECTION  
 1982 APR 22 09:50 PMM 0012-0011 (00) 187 (REV 0)



1-2A

22 APR 1982

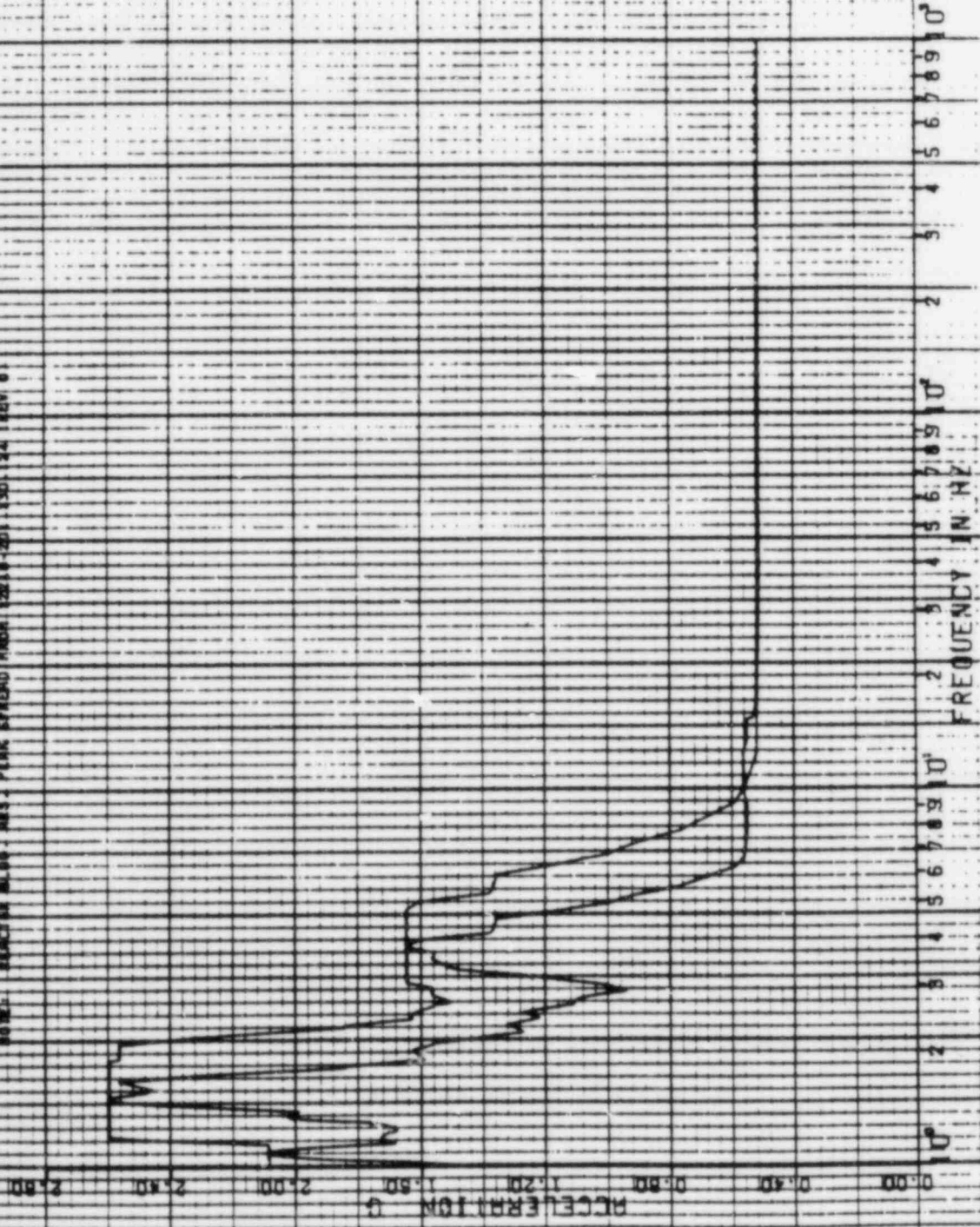
K. KAY

DAMPING VALUE = 0.010

SPECTRA VER 01 LEV 07  
 GOLF STATE UTILITIES-RBS UNIT - CALL 2210-0-0017-50E-1003 REV 01  
 NRS OF REC. REACTOR BLDG. EL-105.00. MASS-27 SE S MODEL-ORHWELL  
 PEAK SPREAD 20Y. 125Y  
 SEE

DISK CURVE SET NO. 52  
 .0155E HDR DIRECTION

NOTE: PEAKS IN BLDG. NRS. PEAK SPREAD FROM (2210-20) 130.144 1REV 01



0.00  
0.50  
1.00  
1.50  
2.00  
2.50

0  
2  
4  
6  
8  
10

FREQUENCY IN HZ





22 APR 1982

K. KAY

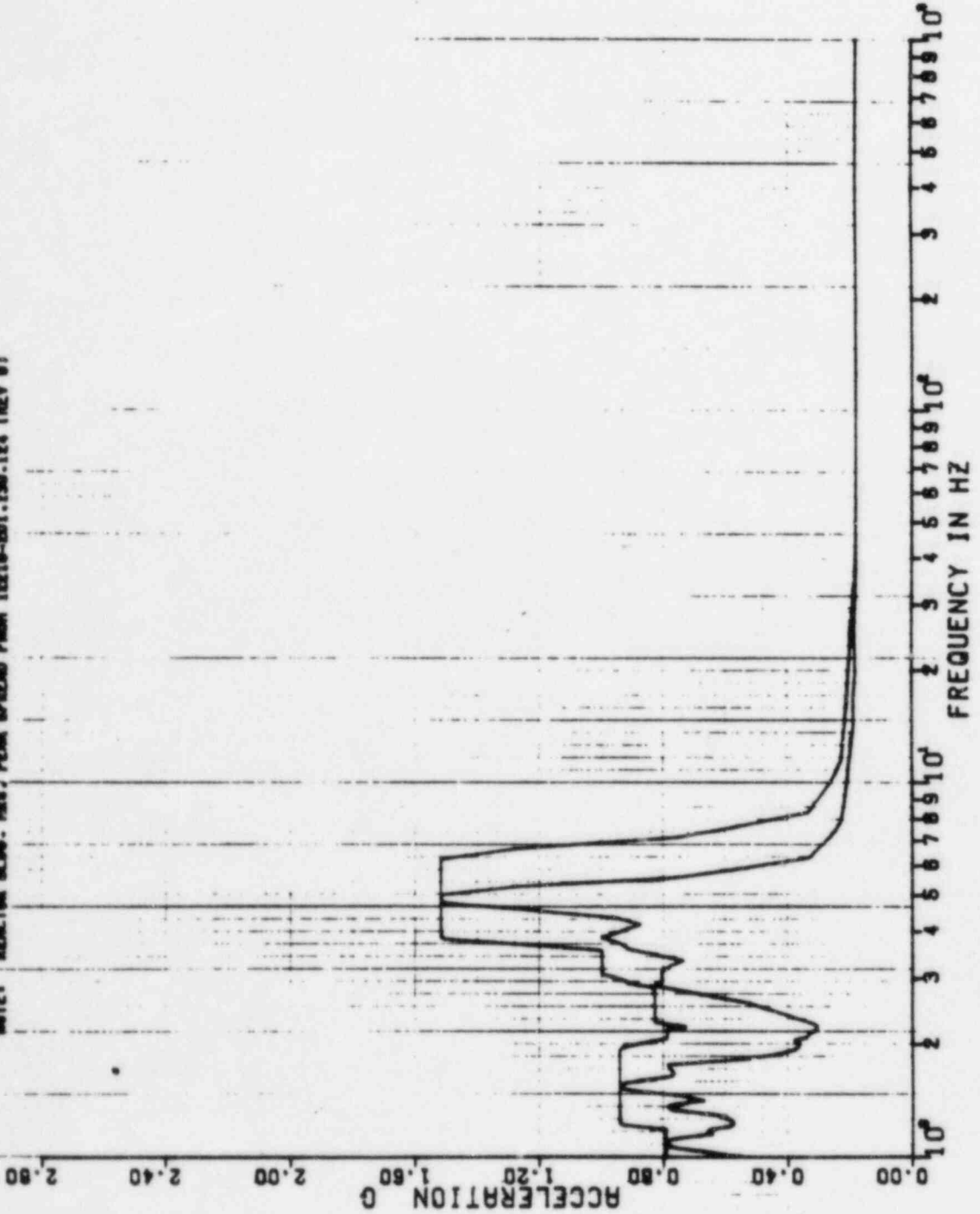
DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NR(C)-SQE-1903 REV(0)  
RRS OF ACC.-REACTOR BLDG. EL.-113.46, MASS=29 SETS MODEL-RPV  
PEAK SPREAD -20% +25%  
OBE

DISK CURVE SET NO.55      0.5 SSE      HOR DIRECTION

NOTE: REACTOR BLDG. MASS, PEAK SPREAD FROM 10010-001.130-124 (REV 8)



PSPECTRA VER 01 LEV 07

OULF STATE UTILITIES-RDS UNIT 1-CALC12210-NH(C)-802-1903 REV(0)  
RRS OF ACC.--REACTOR BLDG.-EL=113.46, MASS=29 SEIS MODEL-RPY  
PEAK SPREAD -20Z.+25Z

DISK CURVE SET NO.55

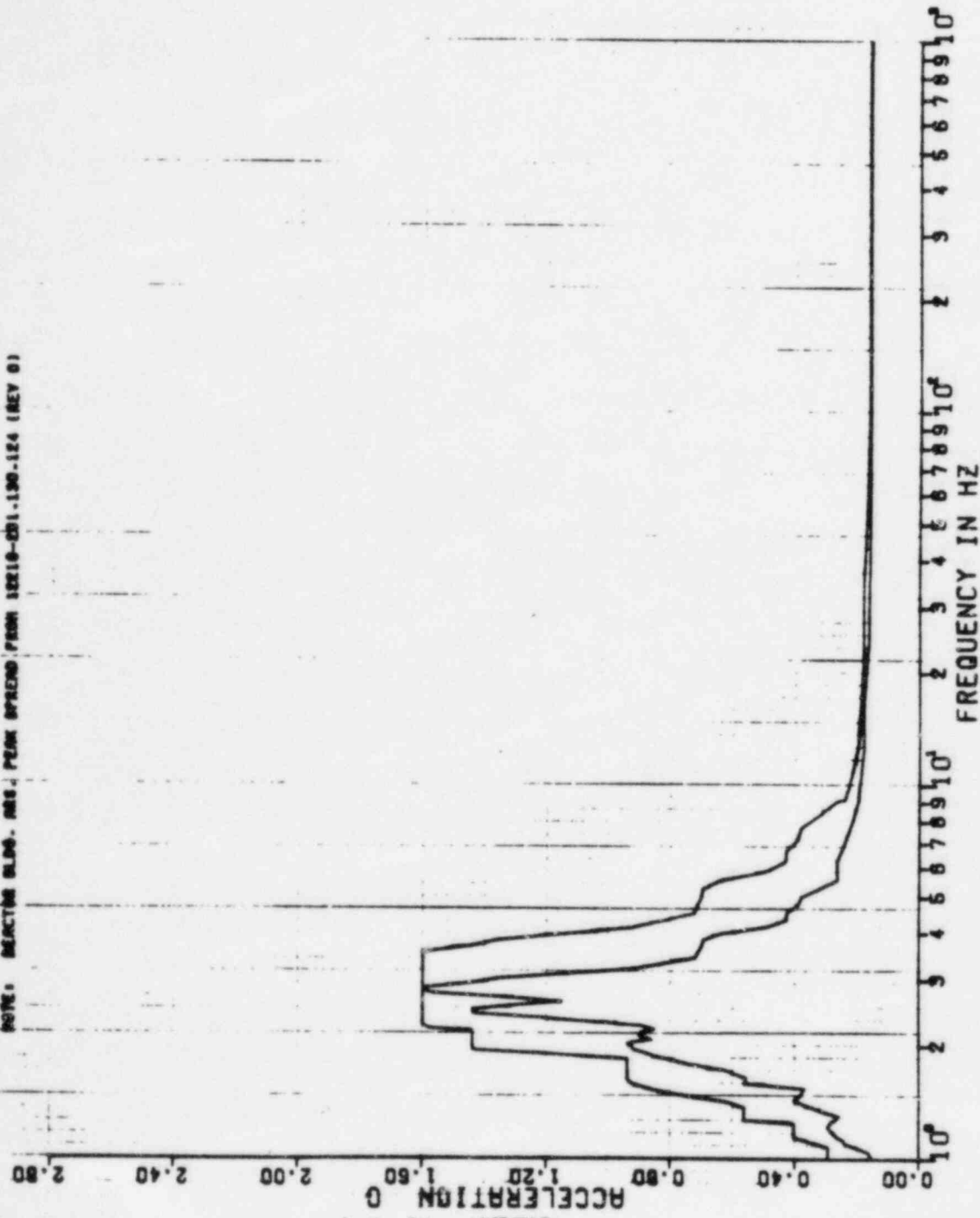
0.5 SSE VER DIRECTION

NOTE: REACTOR BLDG. HAS PEAK SPREAD FROM 12518-201.130-124 (REV 0)

22 APR 1982

K.KAY

DAMPING VALUE = 0.020



3549

6 FEB 1965

K. A. KRY

DAMPING VALUE = D.DEC

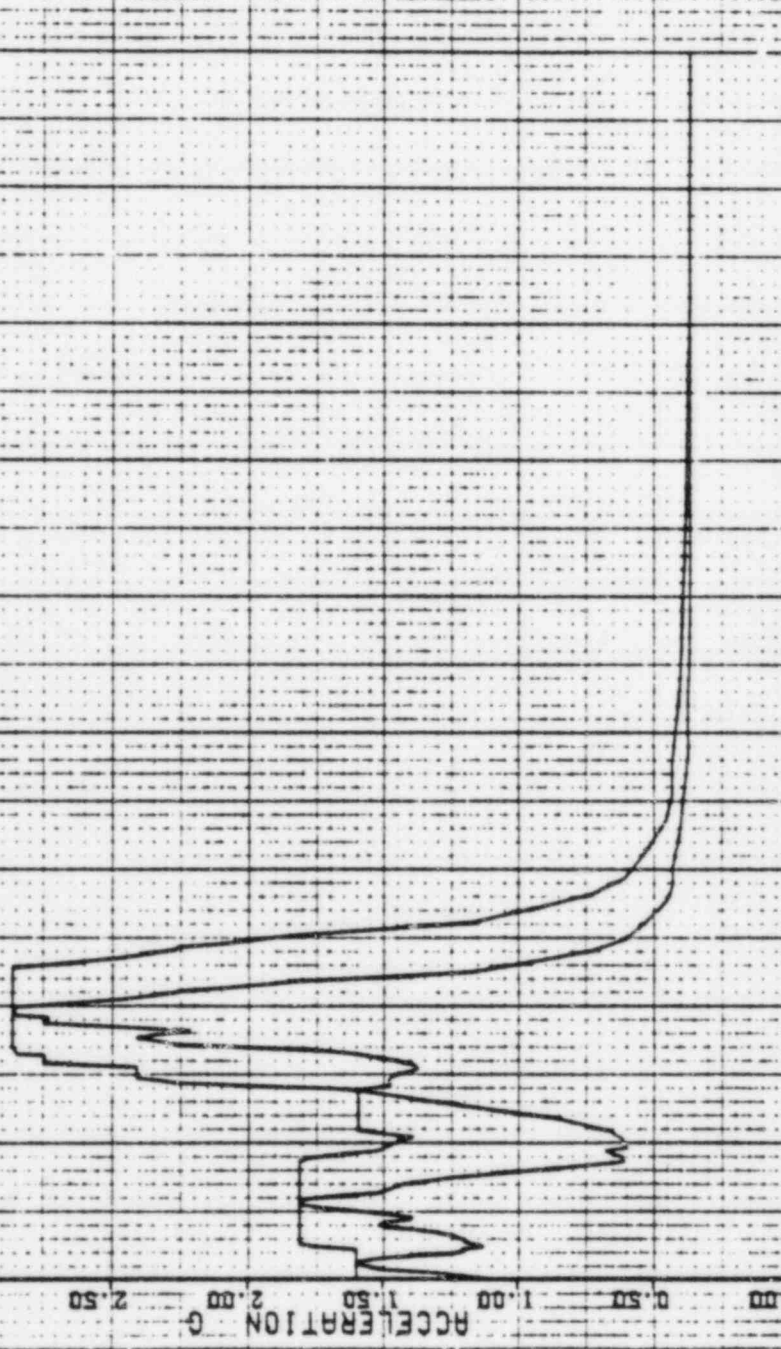
PSPECTRA VER 01 LEV 08  
 GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC1)-SBE-1903 REV11)  
 RRS OF ACC.-REACTOR BLDG.-EL=119.46, MASS=29 5E16 MODEL-RFY  
 PEAK SPREAD -2DZ +25Z  
 DISK CURVE SET NO.56

1.0 SSE MOR DIRECTION

NOTE: REACTOR BLDG, RBS PEAK SPREAD FROM 12210-601.150-124 1REV 01)

ACCELERATION 0 1.00 2.00 3.00 3.50

FREQUENCY IN HZ 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup>





6554

8 FEB 1983

K. KAY

DAMPING VALUE = 0.020

UNIT: 1-CALC12210-NMIC1-50E-19D3 REV111

EL=113.46, MASS=29 5E16 MODEL-NPV

55E

VER DIRECTION

1.0 55E

NOTE: REACTOR BLDG, MASS. PEAK SPREAD FROM 1E21D-001.130-184 (REV D1)

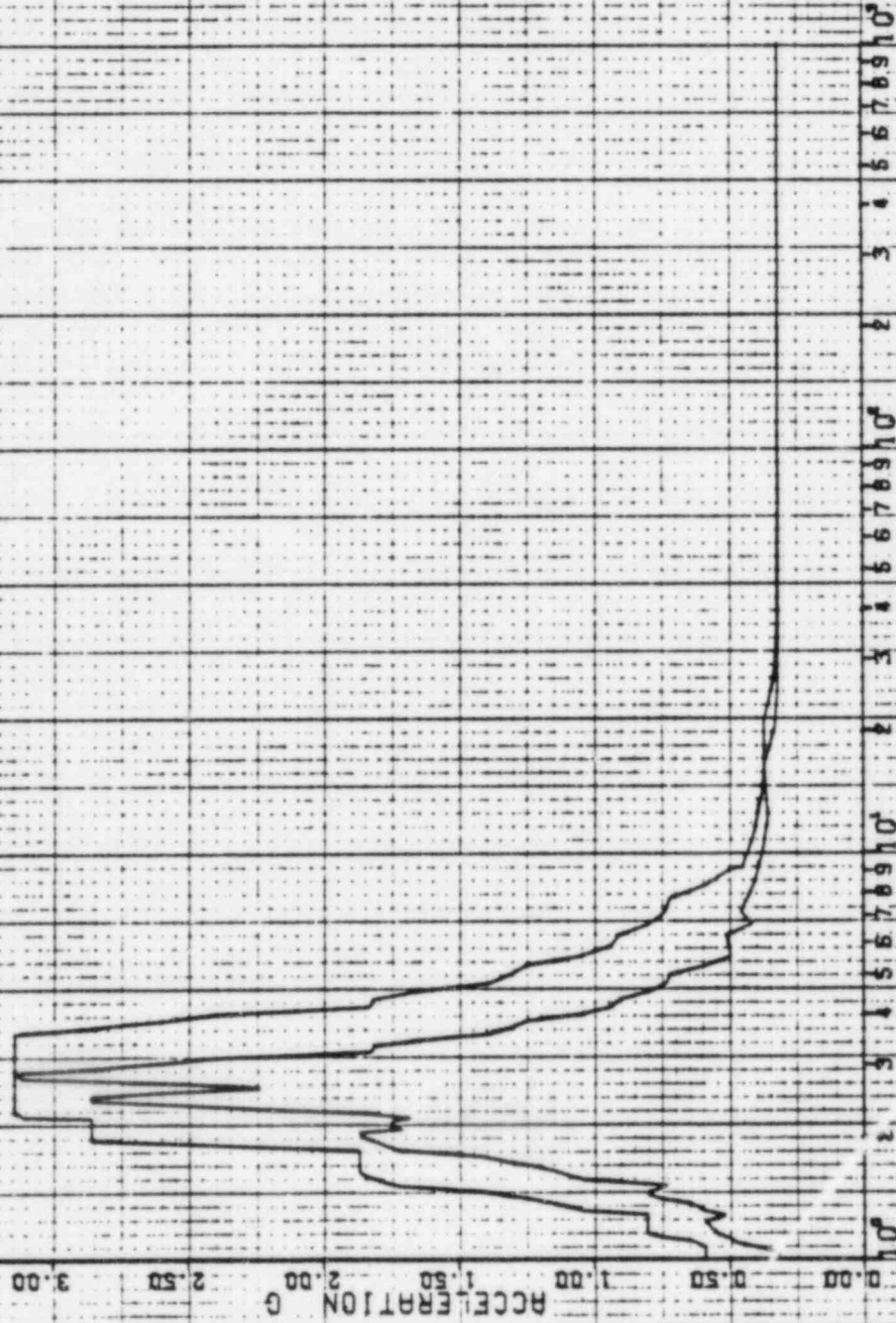
PSPECTRA VER 01 LEV 08

GULF STATES UTILITIES-RDS

RRS OF ACC.-REACTOR BLDG

PEAK SPREAD -20% +25%

DISK CURVE SET NO.55



10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup> 10<sup>9</sup> 10<sup>10</sup>

FREQUENCY IN HZ

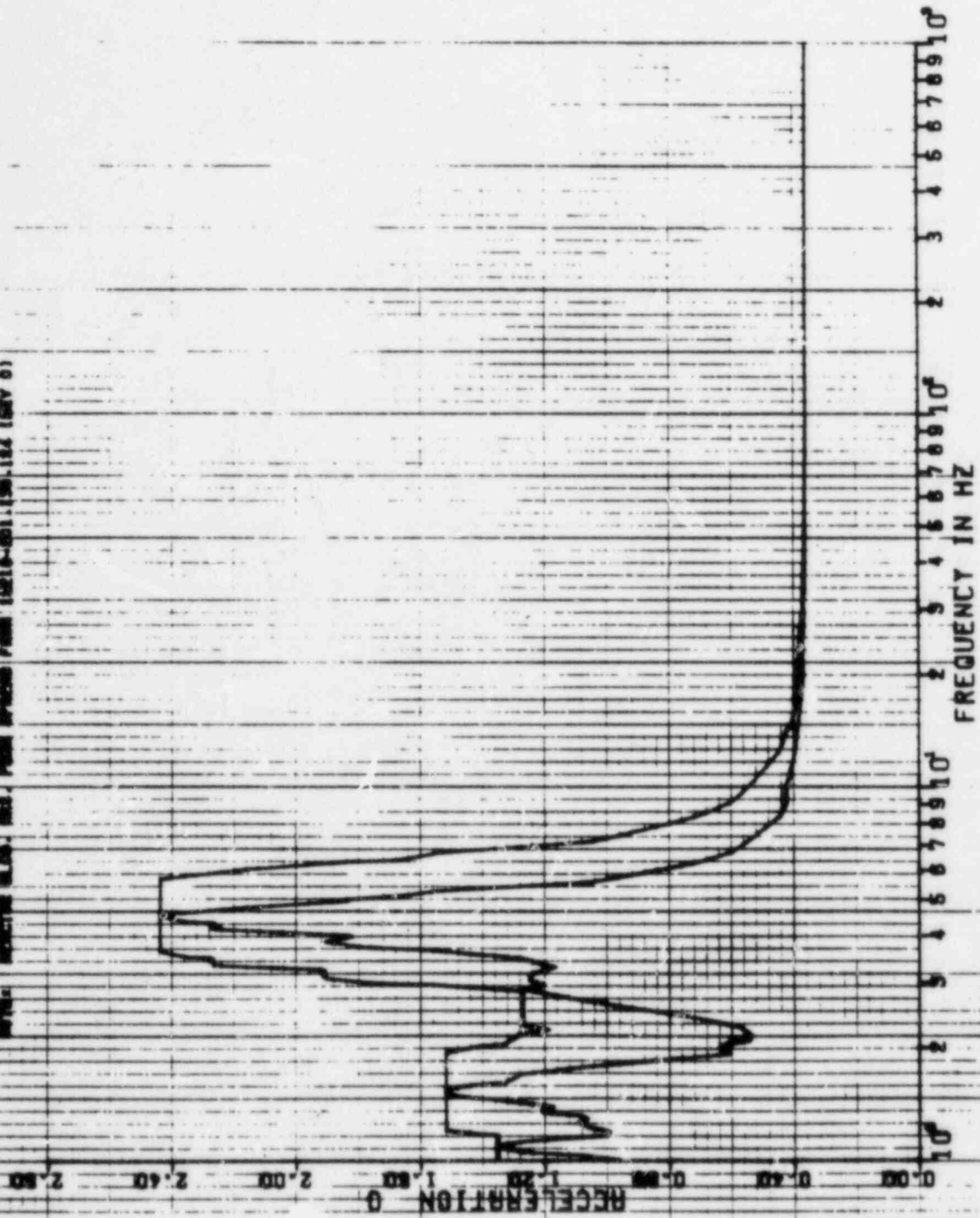
31-A

22 APR 1982

K-MAY

DAMPING VALUE = 0.030

PSPECTR VER 01 LEV 07  
 DULY STATE UTILITIES-RBS UNIT 1-CALC12210-WAIC)-502-1903 REV10)  
 RRE OF NCC-REACTOR BLDG-EL-113.46.NA68-29 SE16 MODEL-RPV  
 PERK. R'NEED. -202.825Z  
 DTRK CURVE SET NO.58  
 WAVE= INDUCTIVE BLDG. RBS. FROM PRESSURE PAN (W210-201) (500.164 (REV 0))  
 1.0 SSE HDR DIRECTION  
 SBE



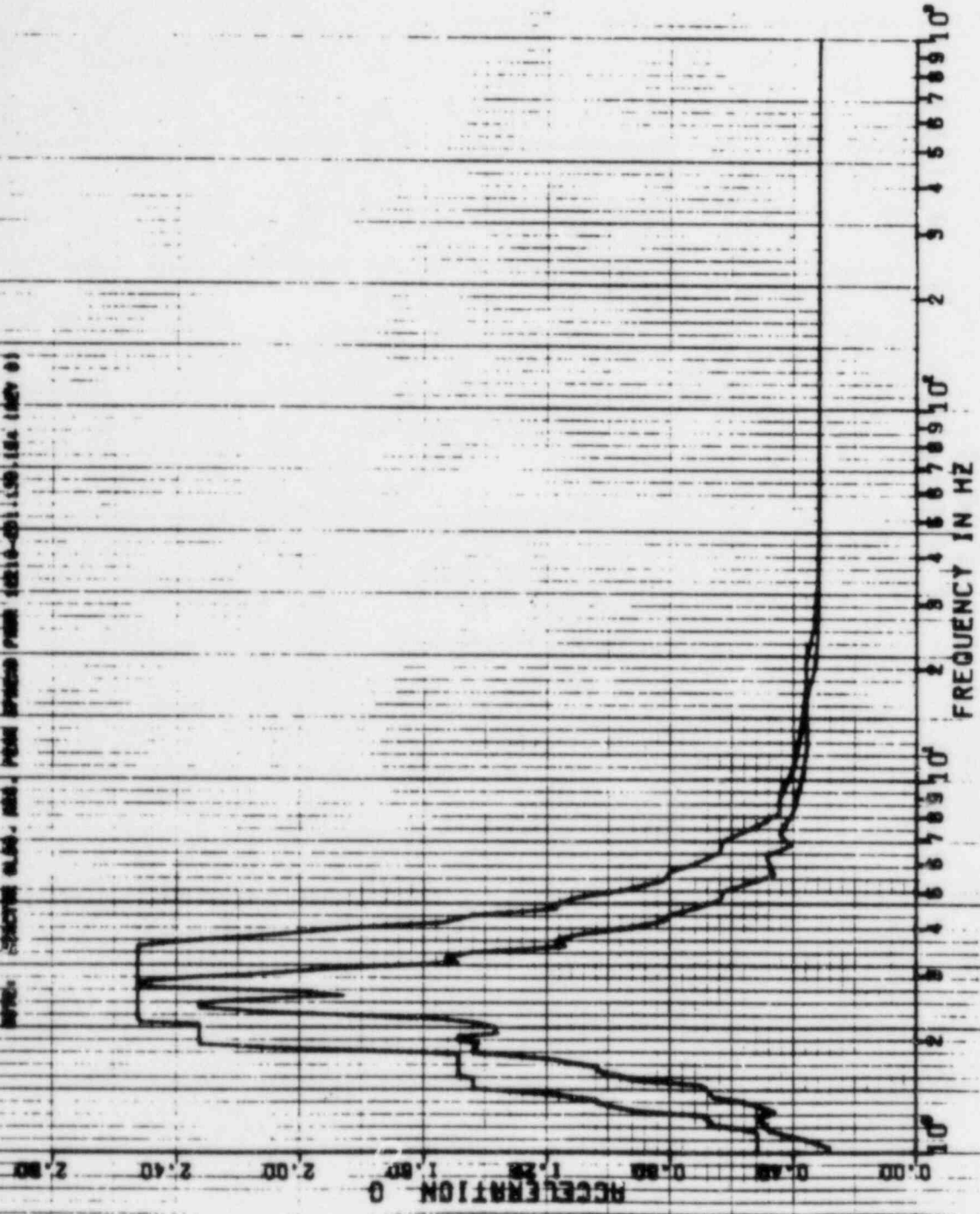
3..A

22 APR 1962

K.KRY

DAMPING VALUE = 0.050

SPECTRUM VER 01 LEV 07  
 GULF STATE UTILITIES-RSS UNIT 1-CALC(12210-RRIC)-80E-1903 REV(0)  
 RRS OF ACC.-REACTOR BLDG-EL-113.46.MASS-29 GEIS MODEL-RPV  
 PERK SPHERO -2071-262  
 SEE  
 DISK CURVE SET NO.56  
 1.0 SSE VER DIRECTION  
 UNIT: 20000000.000 PERK SPHERO PERK (2010-01)1.50 (84 (REV 0))





150A

22 APR 1982

X-KRY

DAMPING VALUE = 0.040

SPECTRA VER DI LEV 00  
CULF SPRAY UTILITIES-RBS UNIT 1-CALC 1210-NRITY-50E-1909 REV 03  
RMS DT ACCEL-REACTOR BLOC. EL-118-AB. MASS-89 SET 5 MODEL-RPV  
PEAK SPREAD 20K-25K  
SEE

DISK CURVE SET NO. 55  
1.0 55E HDR DIRECTION

NOTE: REACTOR BLOC. HAS PEAK SPREAD FROM (220-201) (301) (4.18KV) b)

REGENERATION 0  
0.000 0.001 0.002 0.003 0.004 0.005 0.006 0.007 0.008 0.009 0.010  
2.000 2.001 2.002 2.003 2.004 2.005 2.006 2.007 2.008 2.009 2.010  
4.000 4.001 4.002 4.003 4.004 4.005 4.006 4.007 4.008 4.009 4.010  
6.000 6.001 6.002 6.003 6.004 6.005 6.006 6.007 6.008 6.009 6.010  
8.000 8.001 8.002 8.003 8.004 8.005 8.006 8.007 8.008 8.009 8.010  
10.000 10.001 10.002 10.003 10.004 10.005 10.006 10.007 10.008 10.009 10.010

FREQUENCY IN HZ  
10<sup>0</sup> 2 3 4 5 6 7 8 9 10





22 APR 1982

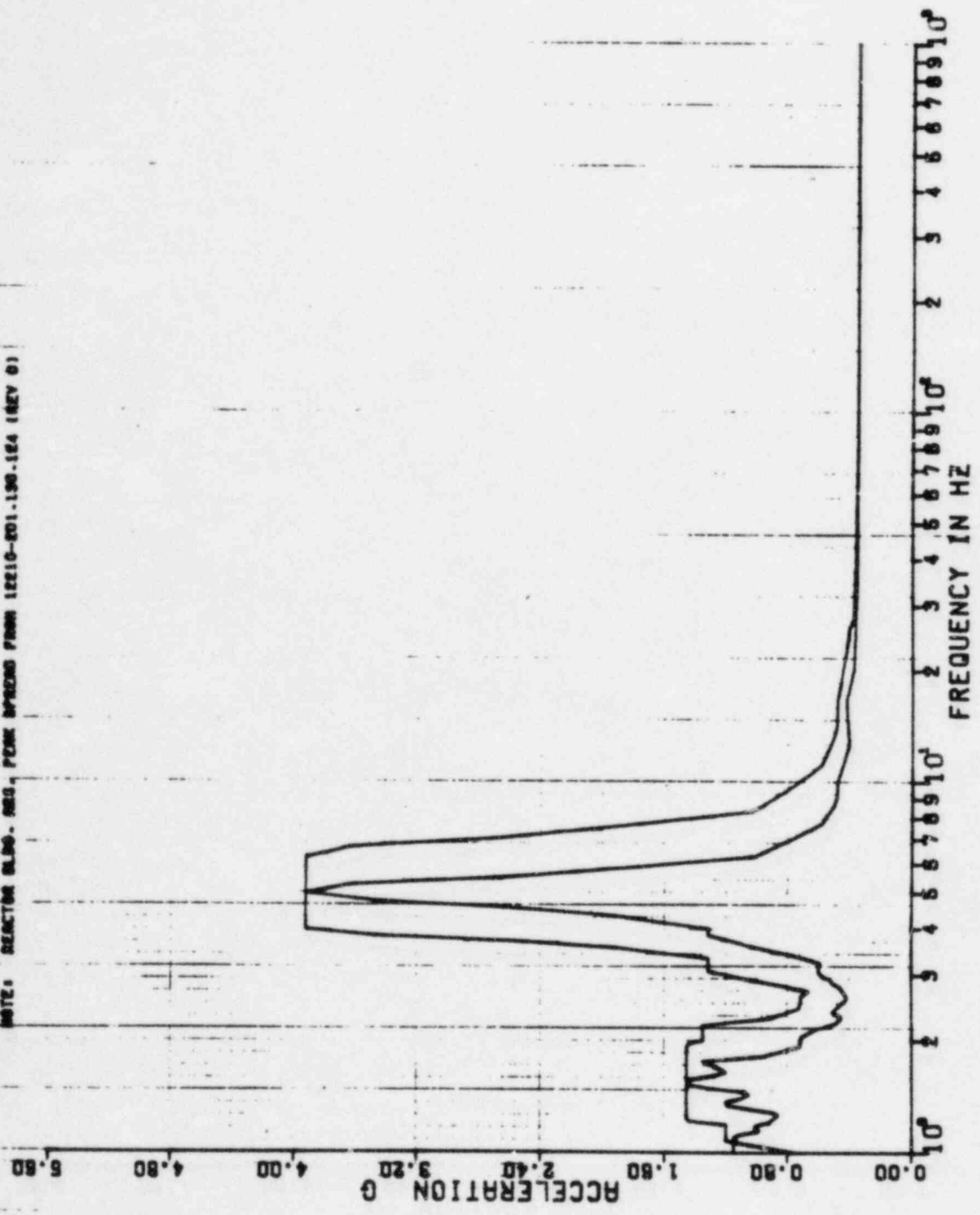
K. KAY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 07  
GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NM(C)-80E-1903 REV(0)  
RRS OF ACC.-REACTOR BLDG. EL-162.57, MASS=30 SEIS MODEL-RPV  
PEAK SPREAD -20%, +25%

DISK CURVE SET NO. 57      0.5 SSE      HOR DIRECTION

NOTE: REACTOR BLDG. RBS, PEAK SPREADS FROM 12210-801.190-124 (REV 0)





22 APR 1982

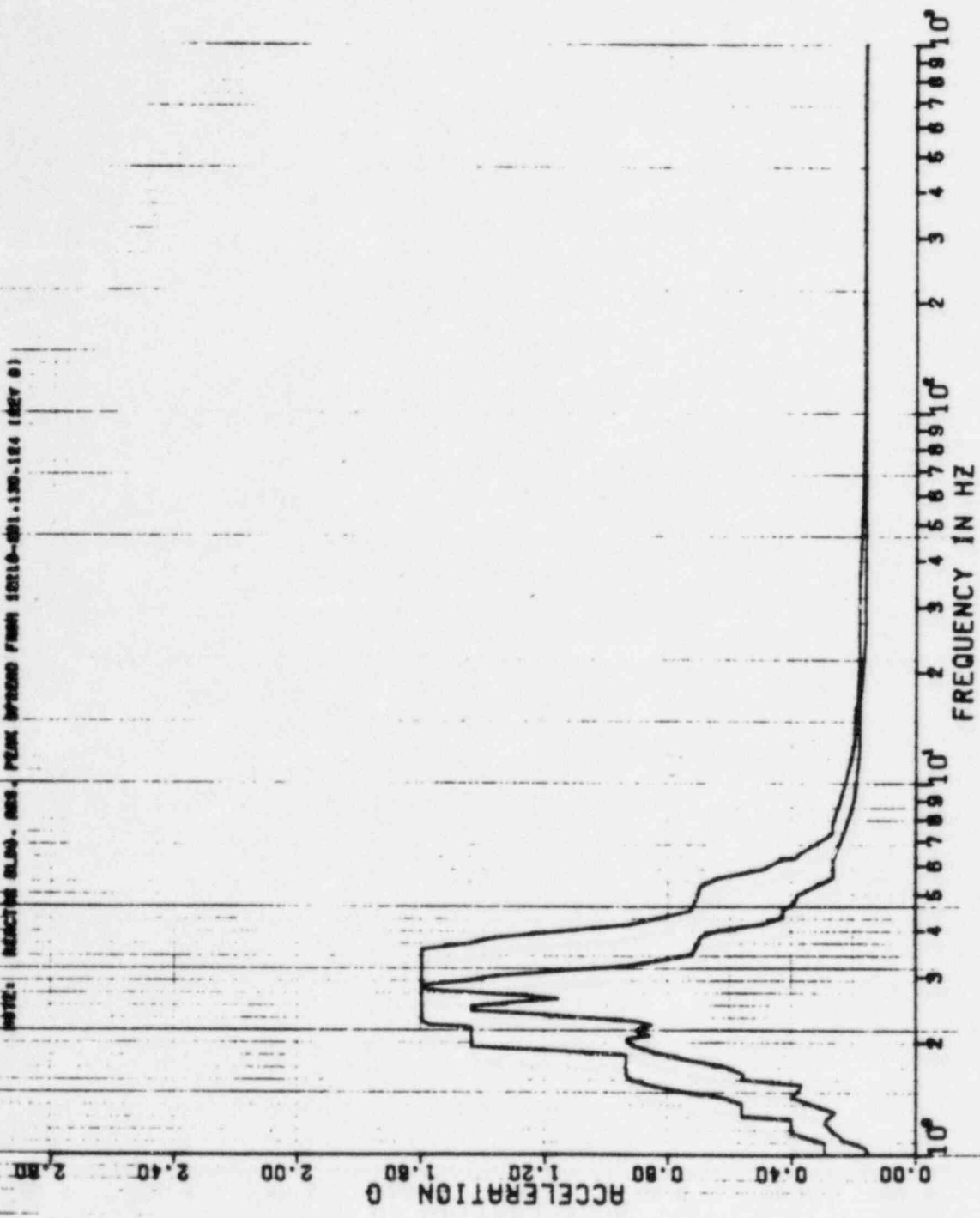
A. KAY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 07  
 GULF STATE UTILITIES-RSS UNIT 1-CALC12210-MM(C)-59E-1903 REV(0)  
 RRS OF ACC.-REACTOR BLDG. EL-162.57. MASS=30 SEIS MODEL-RPY  
 PEAK SPREAD -20%. +25%  
 OBE  
 DISK CURVE SET NO. 57

0.5 SSE VER DIRECTION

NOTE: REACTOR BLDG. HAS PEAK SPREAD FROM 10210-001.130-104 (REV 0)



151A

8 - 3 1963

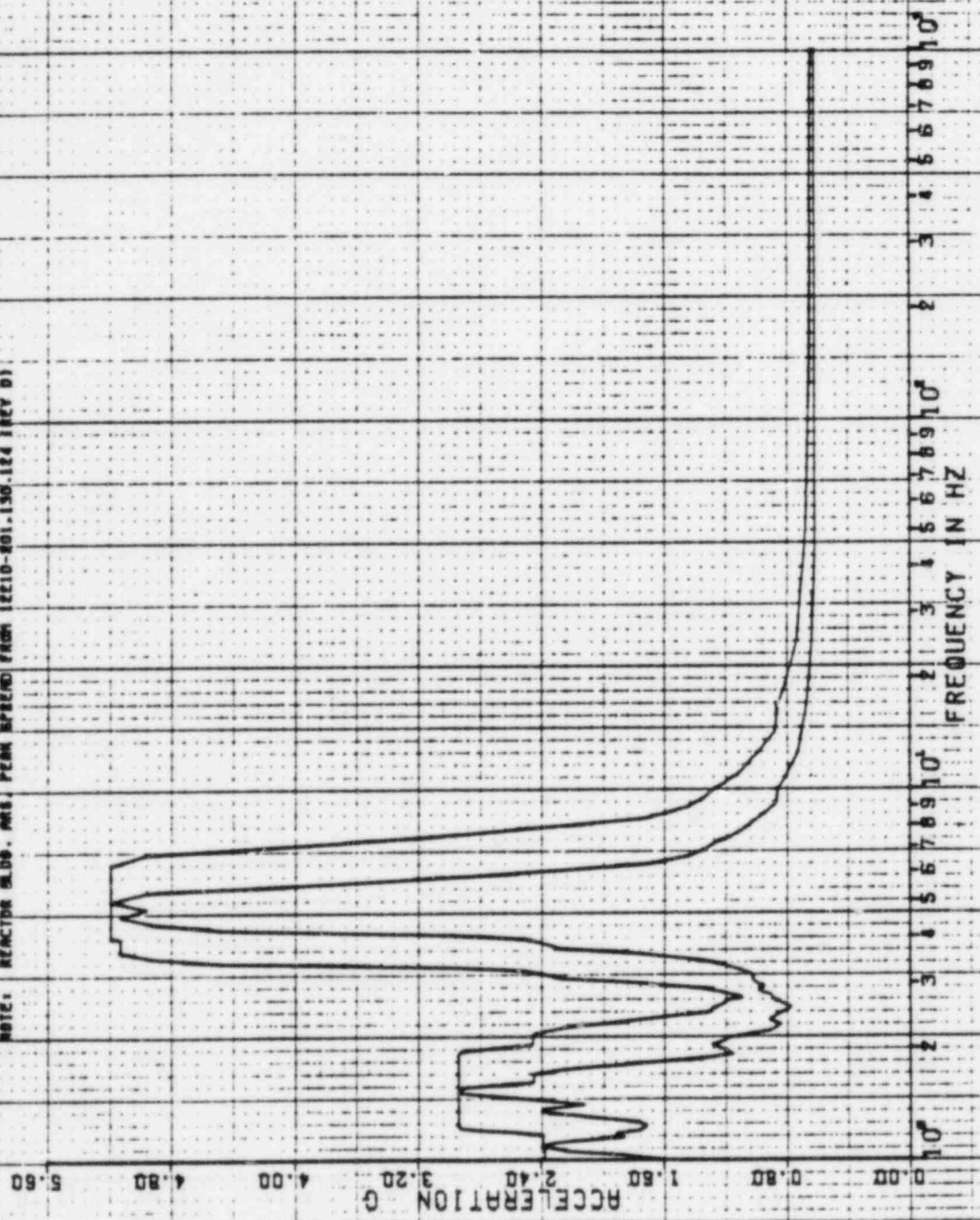
K. MAT

DAMPING VALUE = 0.020

SPECTRA VER 01 LEV 08  
 GULF STATES UTILITIES-RBS  
 UNIT 1-CALC12210-MMICJ-50E-19D3 REV(1)  
 RRS OF ACC.-REACTOR BLDG.-EL-162.57, MASS-30 5E15 MODEL-RPV  
 PEAK SPREAD -20% +25%  
 DISK CURVE SET NO.50

1.0 55E HOR DIRECTION

NOTE: REACTOR BLDG. MASS PEAK SPREAD FROM 12210-001.150.124 (REV D)



FREQUENCY IN HZ

657A

6 FEB 1965

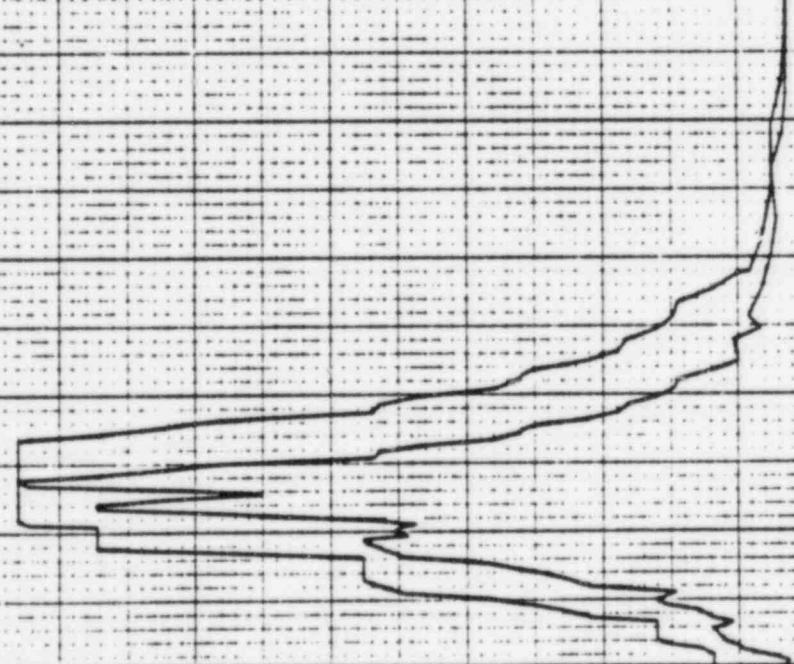
K. KRY

DAMPING VALUE = 0.020

SPECTRA VER 01 LEV 06  
 DULF STATES UTILITIES-RBS UNIT 1-CALC(12210-NR1C)-SDE-1903 REV11  
 MRS OF ACC.-REACTOR BLDG.-FL:162.57, MRS5-50, 5E16, MDOEL-RPV  
 PEAK SPREAD -20Z +25Z  
 DISK CURVE SET NO.58  
 VER DIRECTION  
 1.0 55E  
 NOTE: REACTOR BLDG. MRS. PEAK SPREAD FROM (2210-501.150,184 REV 01)

ACCELERATION 0 0.50 1.00 1.50 2.00 2.50 3.00 3.50

FREQUENCY IN HZ 10<sup>0</sup> 2 3 4 5 6 7 8 9 10<sup>1</sup>





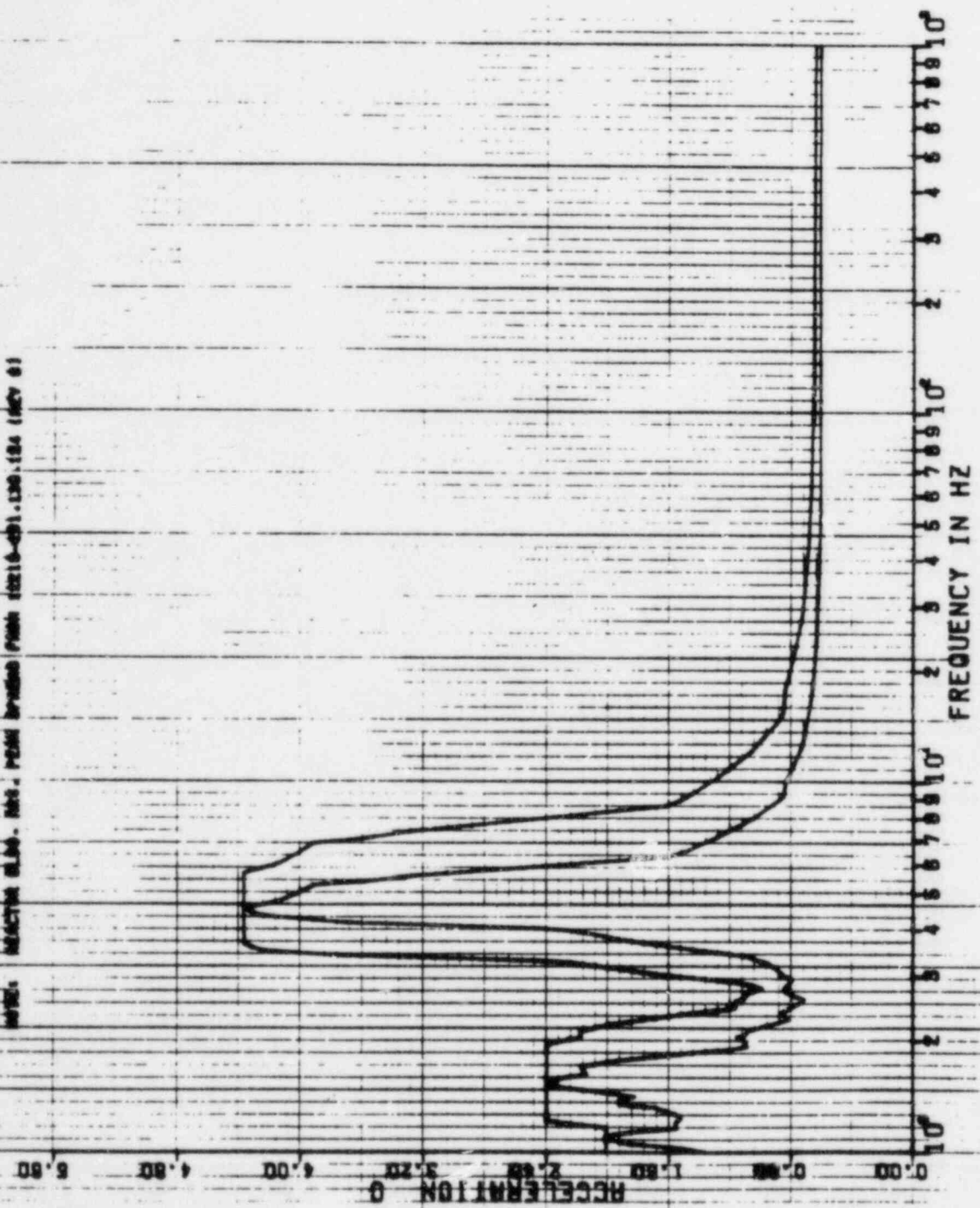
22 APR 1962

3 D

K. KAY

DAMPING VALUE = 0.030

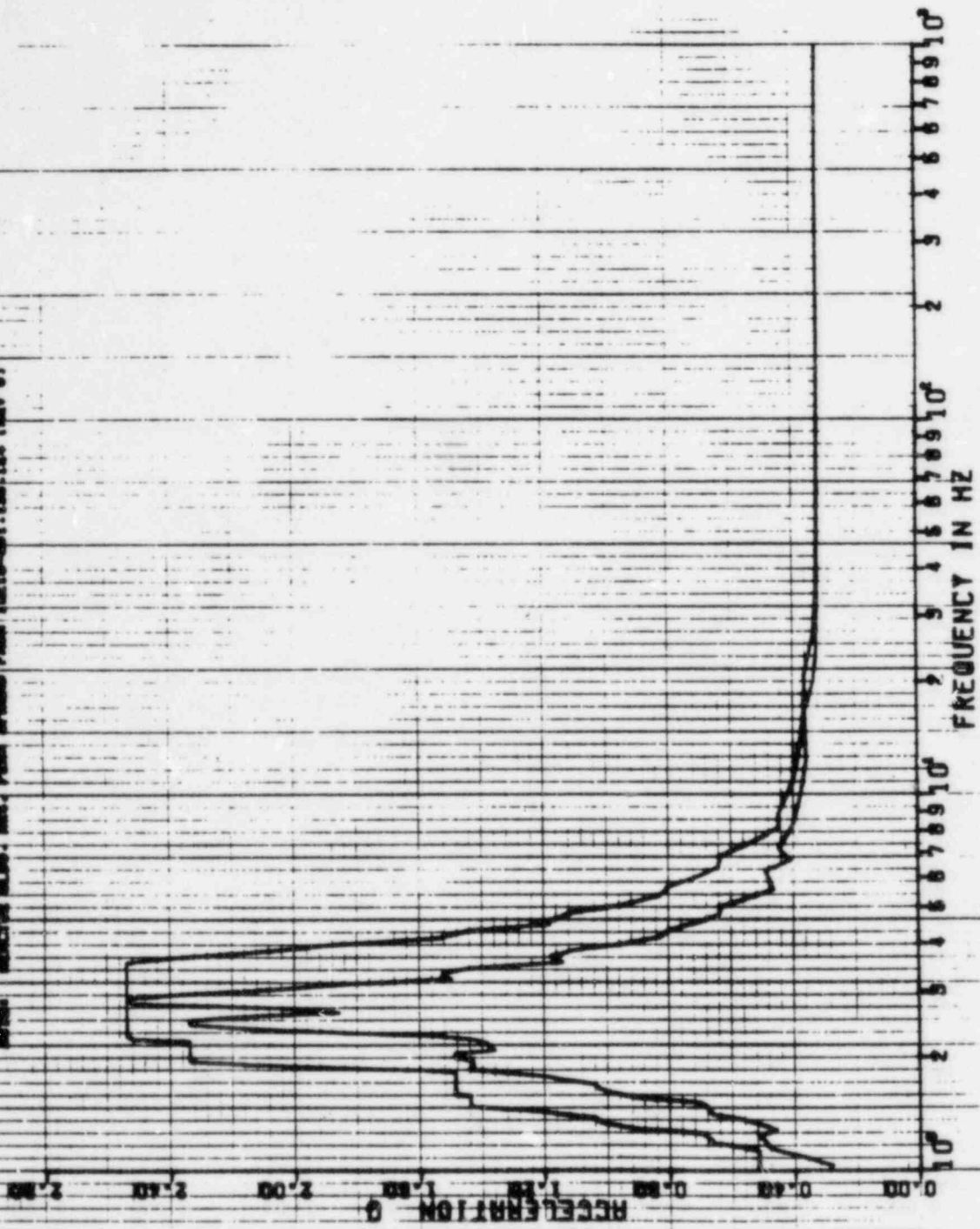
SPECTRA VER 01 LEV 07  
 GULF STATE UTILITIES-RSS UNIT 1-CALC12210-ARICI-50E-1903 REV(0)  
 NOS OF ACC-REACTOR BLDG-EL-162.57, MASS-30 SEIS MODEL-RPV  
 PEAK SPREAD -20%, +25%  
 DISK CURVE SET NO.59  
 1.0 SEE HOR DIRECTION  
 NOTE: REACTOR BLDG. NOS. FROM SPREAD FROM 10216-031.130.184 (REV 61)



22 APR 1982 34.7

K.MAY  
DAMPING VALUE = 0.030

\*SPECTRUM VER 01 LEV 07  
GULF STATE UTILITIES-888 UNIT 1-CALCULATED-ANICI-88E-1903 REV(0)  
RMS OF ACC-REACTOR BLDG. EL-102.57.MASS-30 SE18 MODEL-RPV  
PEAK RESPOND -EVAL-252  
DISK CURVE SET NO.50  
1.0 GSE VER DIRECTION  
NOTE: REACTOR BLDG. HAS BEEN RECALC FROM 88E18-001.000.100 (REV 0)



SPECTRA VER 01 LEV 07  
 CULY STATE UTILITIES RB5 UNIT - CRLC12210-NR1C3-S02-1909 (REV 0)  
 RRS OF ACC. REACTOR BLDG. EL=162.57, MASS=80 SETS MODEL-RPV  
 PEAK SPREAD .00V .05V  
 DISK CURVE SET NO. 58  
 I.D. 58E HOR DIRECTION  
 DAMPING VALUE = 0.040  
 DATE: 22 APR 1982  
 V. KRY

758A

22 APR 1982

DAMPING VALUE = 0.040

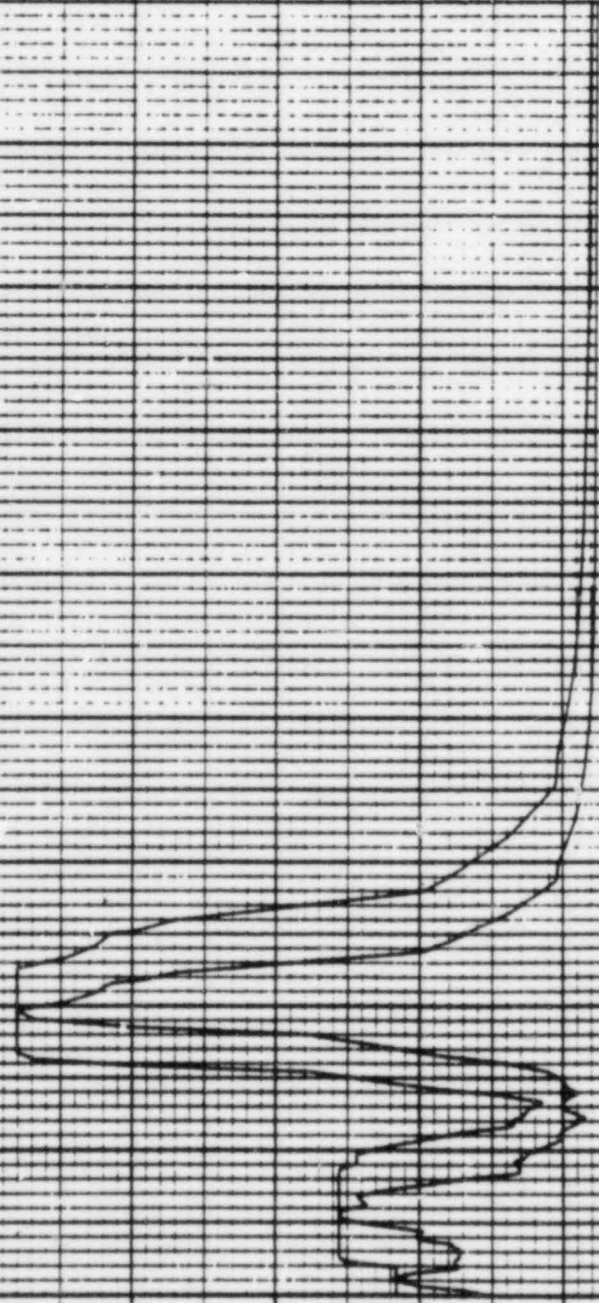
HOR DIRECTION

I.D. 58E

NOTE: REACTOR BLDG. HAS PEAK SPREAD (MOH. 2218-201 (SD. 14 (REV. 6)

ACCELERATION G  
 0.00 0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50

10<sup>0</sup> 2 3 4 5 6 7 8 9 10<sup>1</sup>  
 FREQUENCY IN HZ





PERECTRA VER 01 LEV 07

GULF STATE UTILITIES, RMS UNIT 1, CALLETA, NM, C-50E-1003 REV (0)  
RES OF ACC. REACTOR BLOC. EL-169.57, MASS 90 SE'S MODE. 1.0V  
PEAK SPREAD: 20% 1.557

DISK CURVE SET NO. 58 1.0.55E VER DIREL. 2DN

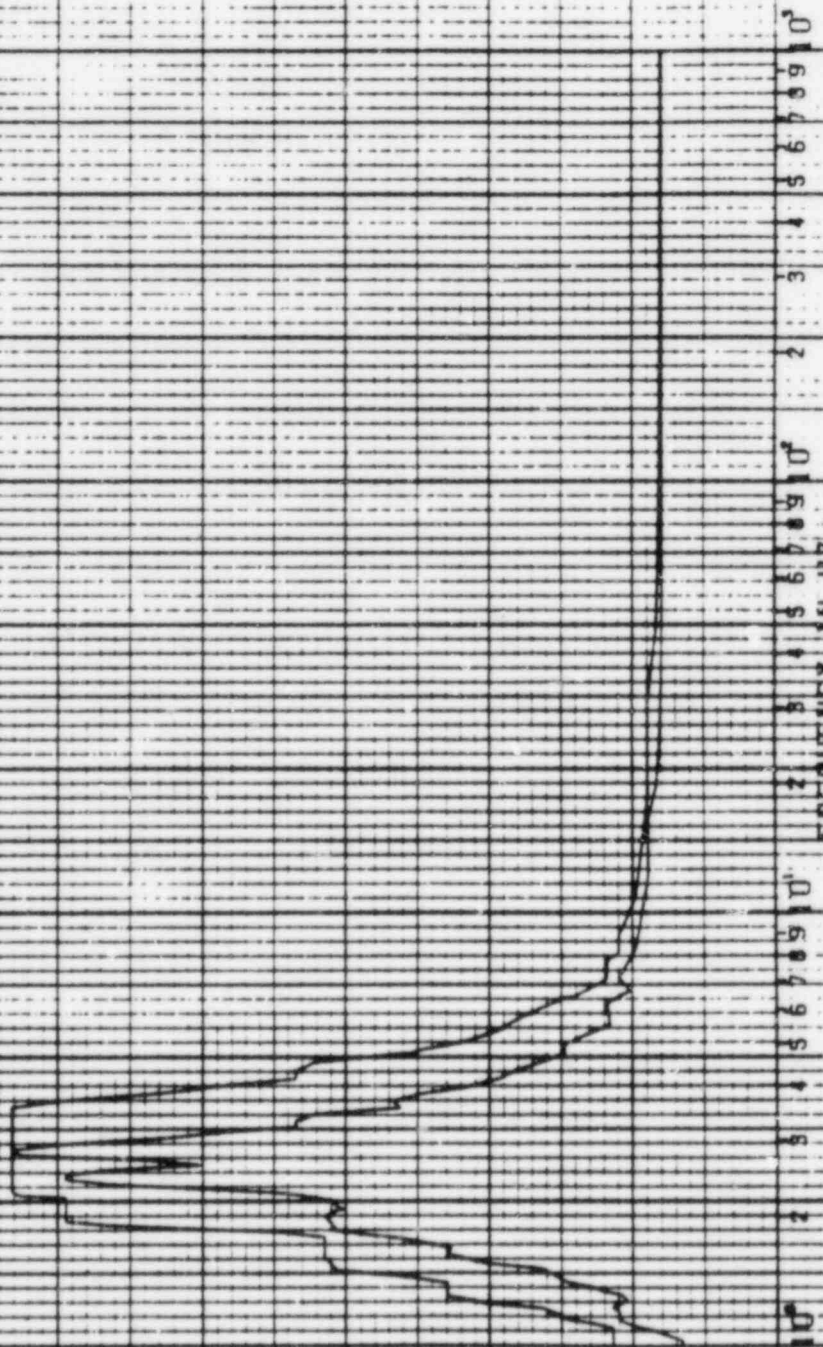
NOTE: REACTOR BLOC. RES. PEAK SPREAD FROM 1.00E-001 TO 1.44 1.00V (0)

22 APR 1982

K. KAY

DAMPING VALUE = 0.010

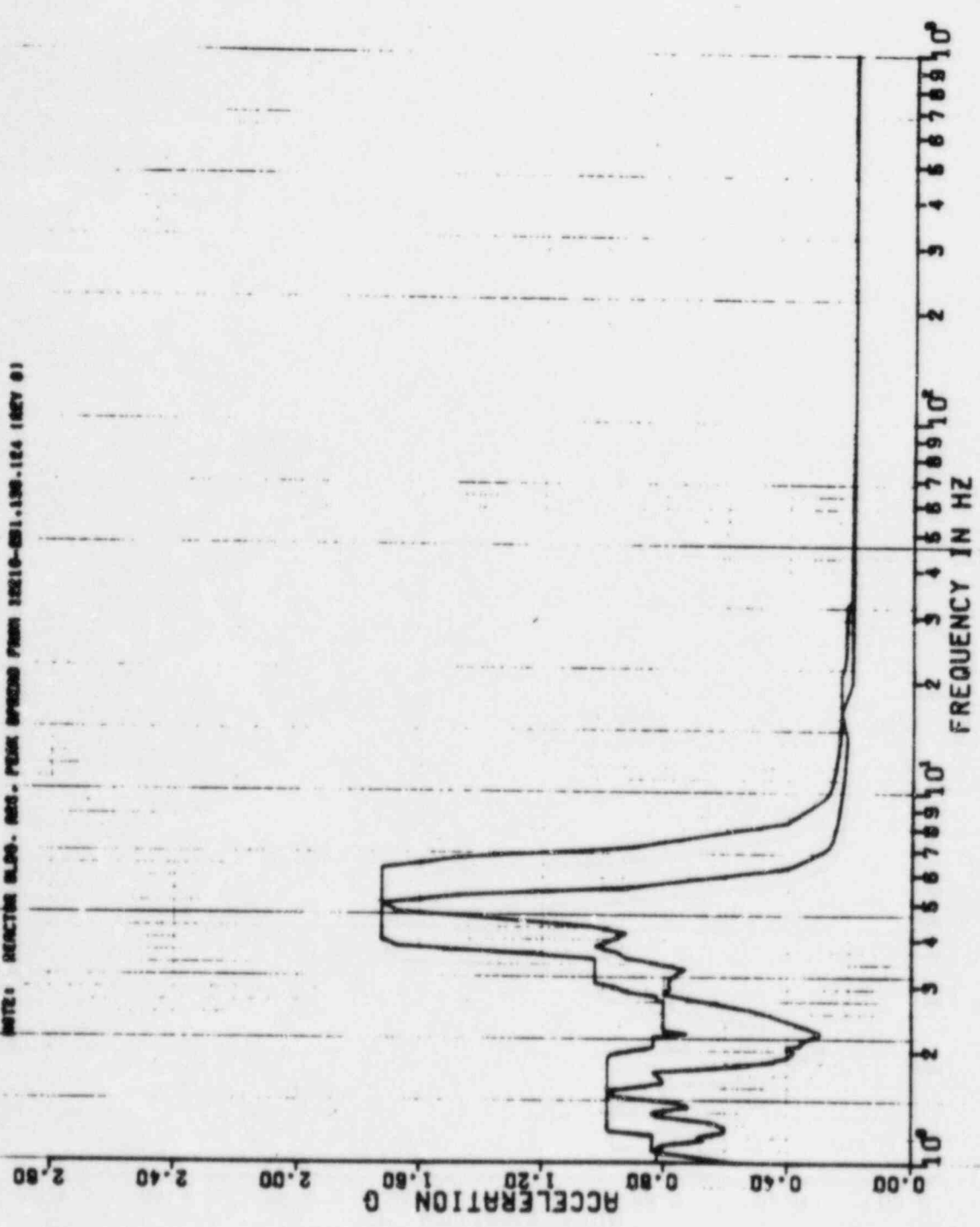
ACCELERATION 0 0.00 1.00 2.00 2.50



FREQUENCY IN HZ 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup>

22 APR 1982  
K. KAY  
DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 07  
OULF STATE UTILITIES-R88 UNIT 1-CALC(12210-NR1C)-60E-1903 REV(0)  
RRS OF ACC.-REACTOR BLDG. EL=117.63. MASS=91 SEIS MODEL-RPV  
PEAK SPREAD -20%+25Z  
08E  
DISK CURVE SET NO. 59  
0.5 56E HOR DIRECTION  
NOTE: REACTOR BLDG. ACC. PEAK SPREAD FROM 12E10-051.130-124 (KEY 8)



1-3-0

22 APR 1962

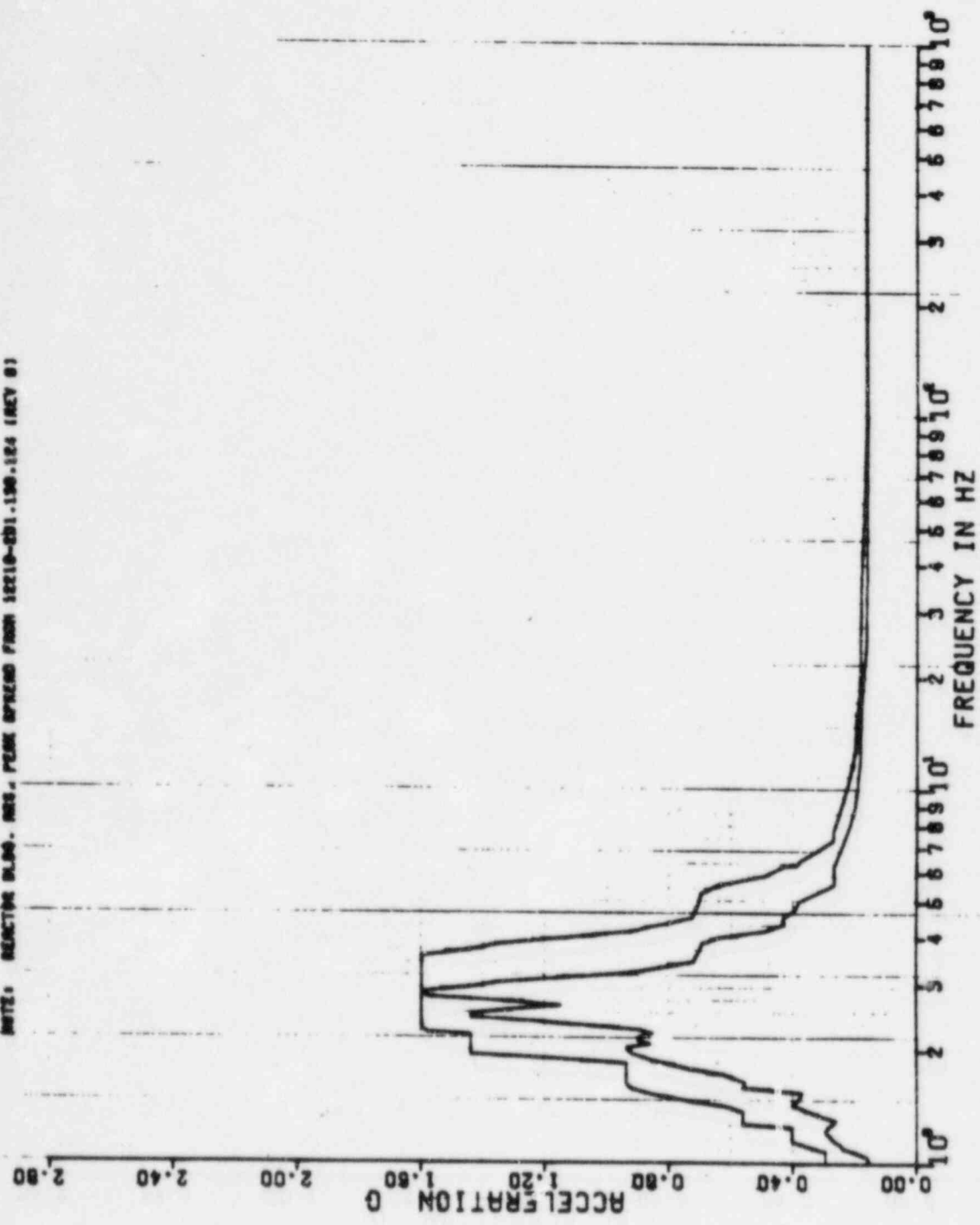
PSPECTRA VER 01 LEV 07  
 GULF STATE UTILITIES-RBS UNIT 1-CALC12210-MNIC1-SQE-1909 REV(0)  
 RRS OF ACC.--REACTOR BLDG.-EL=117.63, MASS=31 6E16 MODEL-RPV  
 PEAK SPREAD -20Z.+25Z  
 OBE  
 DISK CURVE SET NO.59

K.KAY

DAMPING VALUE = 0.020

0.5 SSE VER DIRECTION

NOTE: REACTOR BLDG. MASS, PEAK SPREAD FROM 18210-201.190-184 (REV 0)





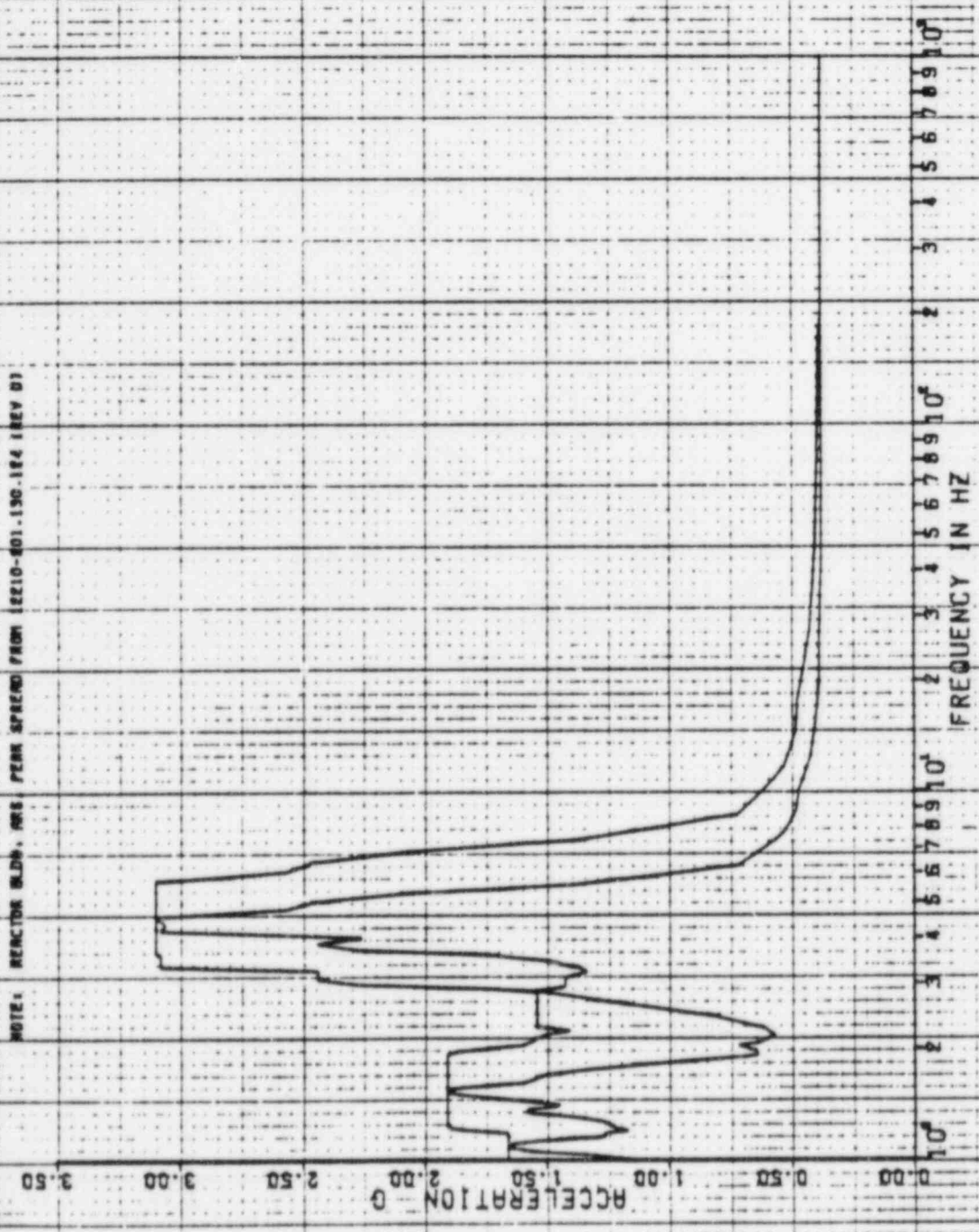
65PA

6 FEB 1965

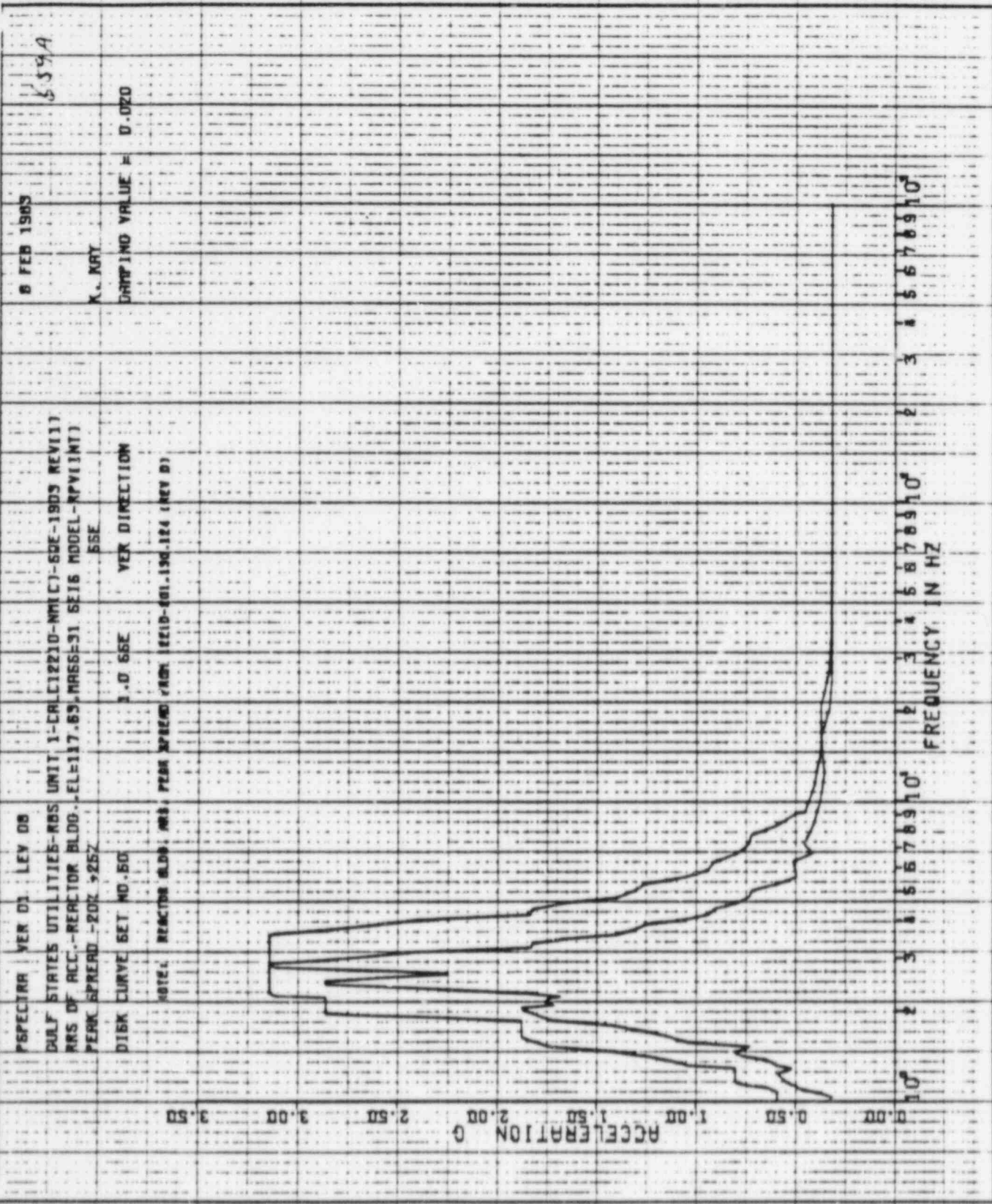
K. KRY

DAMPING VALUE = 0.020

SPECTRA VER 01 LEV 08  
 GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NR(C)-SDE-1903 REV11)  
 PWS OF ACC--REACTOR BLDG--EL=117.63, MASS=31 5E16 MODEL-RP(VINT)  
 PEAK SPREAD -20Z +25Z  
 DISK CURVE SET NO.60  
 1.0 55E MOR DIRECTION  
 NOTE: REACTOR BLDG, WRS PEAK SPREAD FROM 12210-601.130-184 1REV 01



5.6769\*10<sup>4</sup>



6 FEB 1963

K. KRY

DAMPING VALUE = 0.020

659A

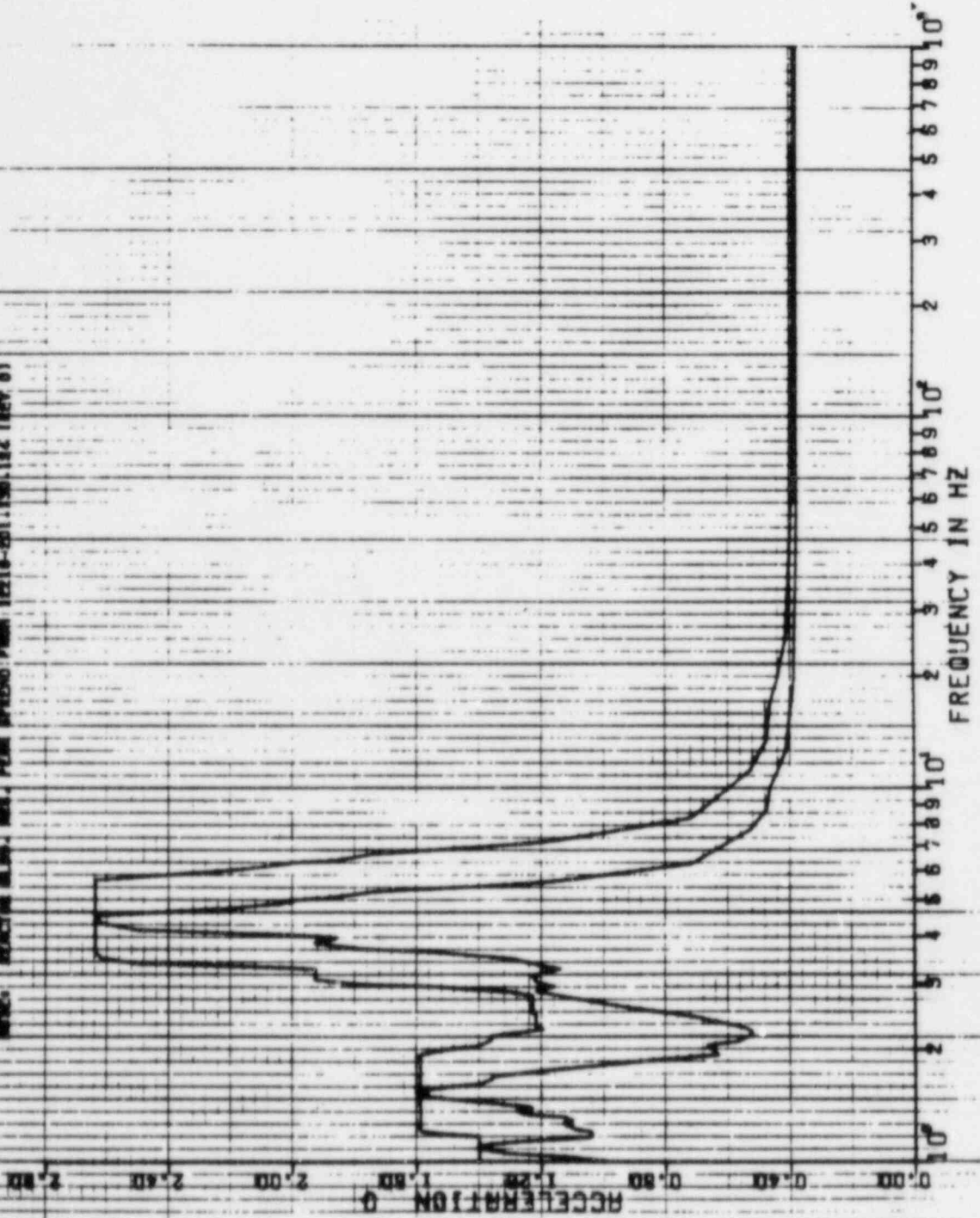
22 APR 1982

351A

K. KAY

DAMPING VALUE = 0.050

PSPECTRA VER 01 LEV 07  
 GULF STATE UTILITIES-RBS UNIT 1-CALC12210-RRIC1-80E-1909 REV 01  
 RRS OF ACC-REACTOR BLDG-EL-117.63-MASS=31 SEIS MODEL-RPV  
 PEAK SPEND. +201.25Z  
 5SE  
 HDR DIRECTION  
 1.0 5SE  
 DISK CURVE SET NO.60  
 RRS- REACTOR BLDG. NO.3. PEAK SPEND PWR (221.6-201.194 INCV. 0)





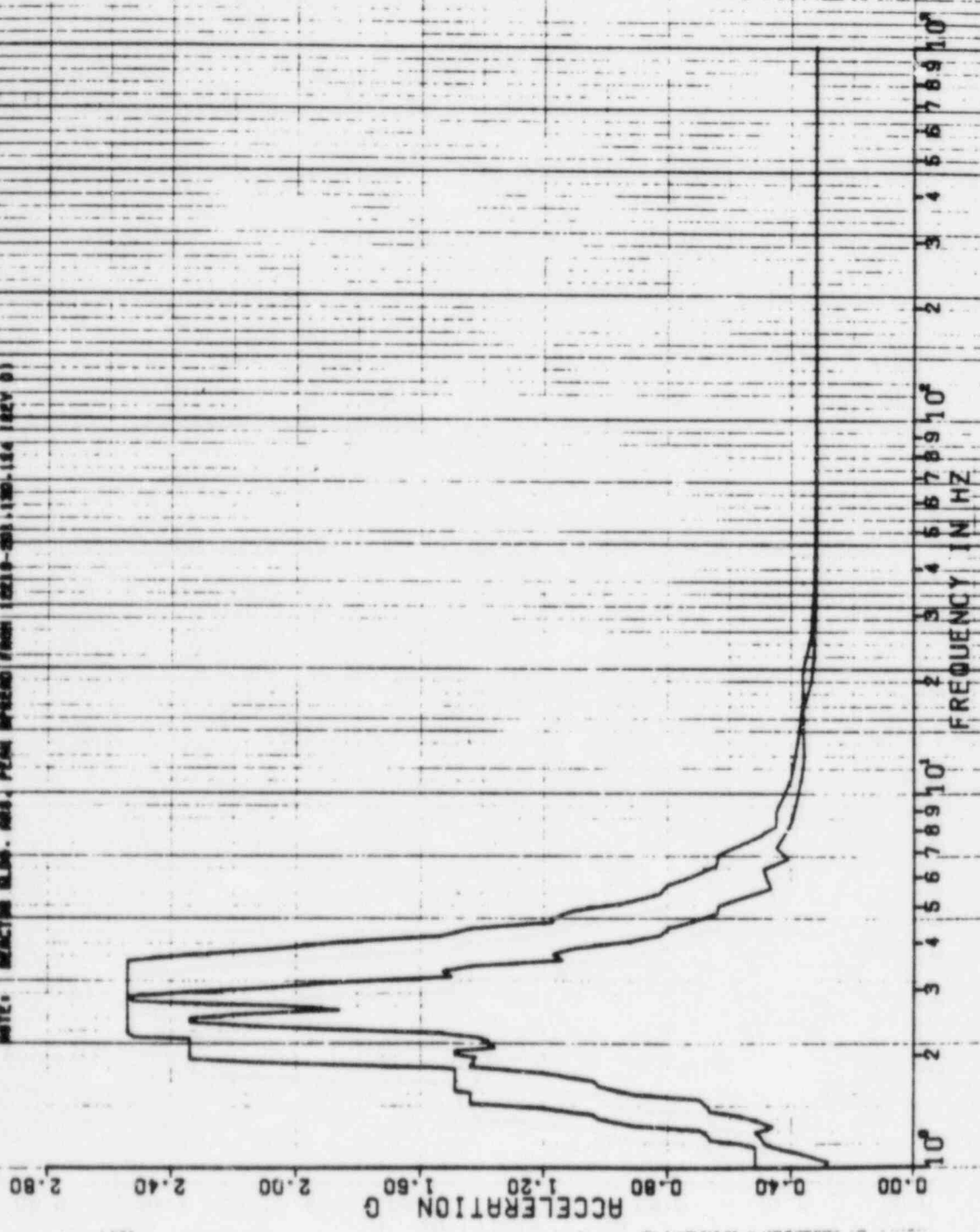
395A

22 APR 1982

K. KRY

DAMPING VALUE = 0.050

PSPECTRA VER 01 LEV 07  
 GULF STATE UTILITIES-RBS UNIT 1-CALC12210-MM(C)-502-1903 REV(0)  
 RRS OF ACC.-REACTOR BLDG-EL=117.69, MASS=31 SETS MODEL-RPY  
 PERK SPREAD -50X.#25X  
 SEE  
 VER DIRECTION  
 1.0 SSE  
 DISK CURVE SET NO. 50  
 NOTE: REACTOR BLDG. 608. PEAK SPREAD FROM 10219-503.130-154 (HZ)



7.0 A

22 APR 1982

K.KBY

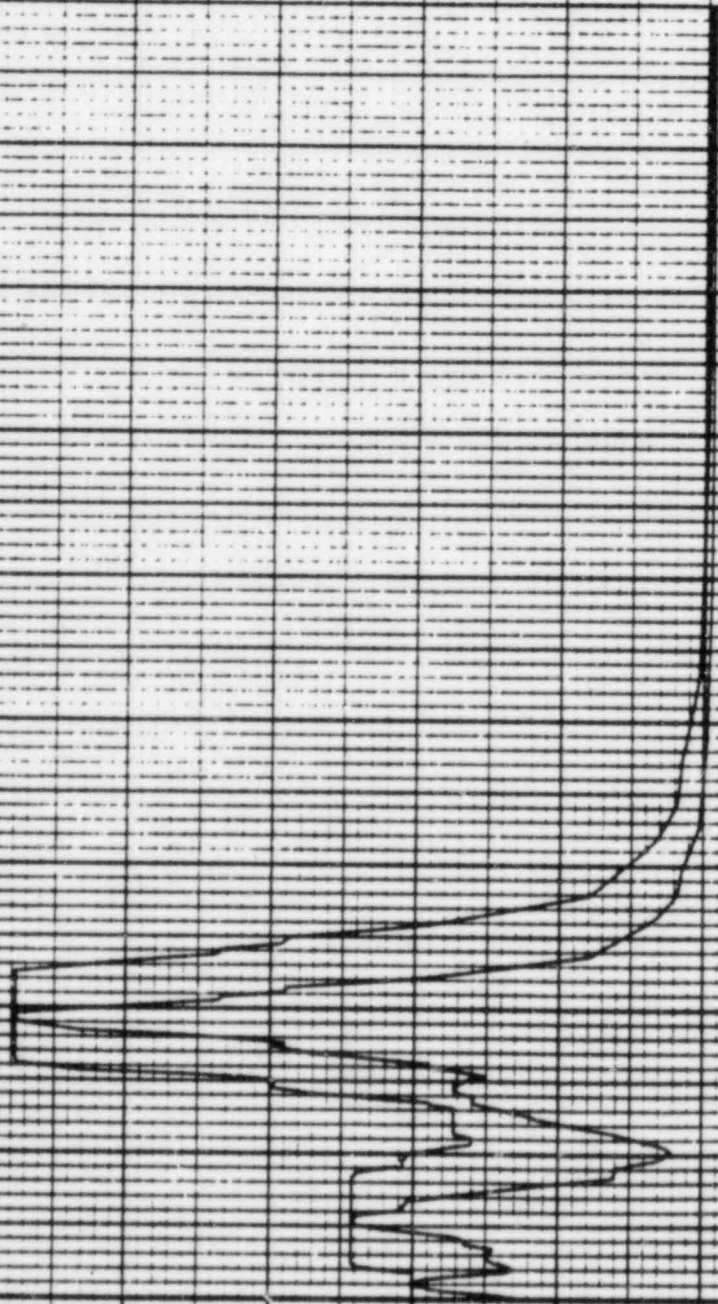
DAMPING VALUE = 0.010

SPECTRA VER ID1 LEV 07  
 GULF STATE UTILITIES-RBS UNIT 1-111122101 MW (1-501-1903 REV 0)  
 BRS OF REC-REACTOR BLOC. EL=17.69, MASS=3 SETS MODEL-RPV  
 PEAK S-REND 1-207.195  
 SSE  
 HDR DIRECTION  
 1-0 SSE  
 DISK CURVE SET NO. 60

NOTE: REACTOR BLOC. HAS PEAK SPREAD WIDTH (2016-201) (30.124 (REV 0)

ACCELERATION G  
 0.00 0.50 1.00 1.50 2.00 2.50 3.00

FREQUENCY IN HZ  
 10<sup>0</sup> 2 3 4 5 6 7 8 9 10<sup>1</sup>



7-114

82 APR 1982

K. MAY

DAMPING VALUE = 0.010

PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES - MBS UNIT - CALC 12210-UNIT-1-501-1903 REV 01  
RFS OF ACC. REACTOR BLOC. CL=117.65, MASS=31 SETS ABOVE RPY  
PEAK SPREAD = 20% ± 25%  
SSR

DISK CURVE SET NO. 50  
1.0 SSR VER DIRECTION

NOTE: REACTOR BLOC. HAS PEAK SPREAD FROM (2210-20) TO 124 (REV 01)

2.500

2.400

2.300

ACCELERATION G

1.800

1.200

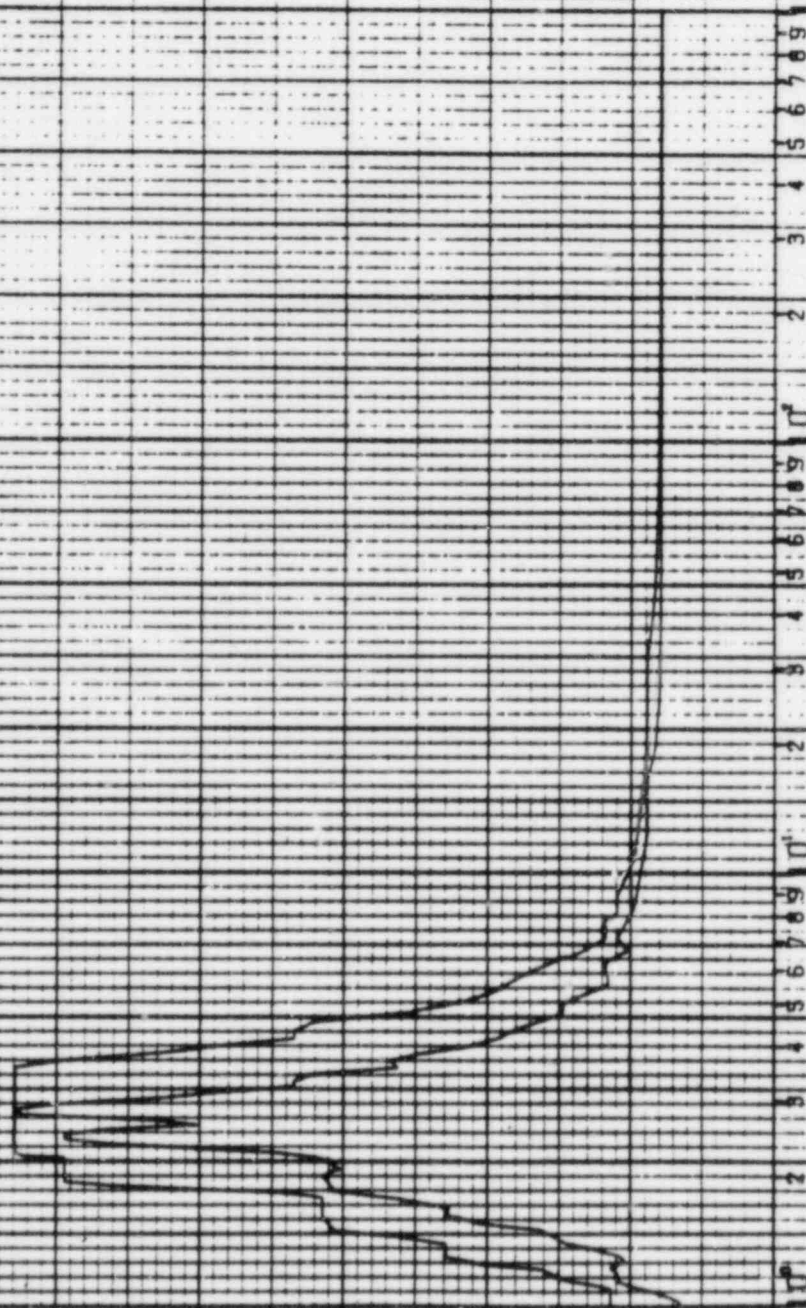
0.800

0.400

0.000

10<sup>0</sup> 2 3 4 5 6 7 8 9 10<sup>1</sup> 2 3 4 5 6 7 8 9 10<sup>2</sup>

FREQUENCY IN HZ





PSPECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-RB6 UNIT 1-CALC12210-NM(C)-6QE-1909 REV(0)  
RRS OF ACC.-REACTOR BLDG.EL=133.07.MASS=92 SE16 MODEL-RPV  
PEAK SPREAD -20%.+25Z

DISK CURVE SET NO.61

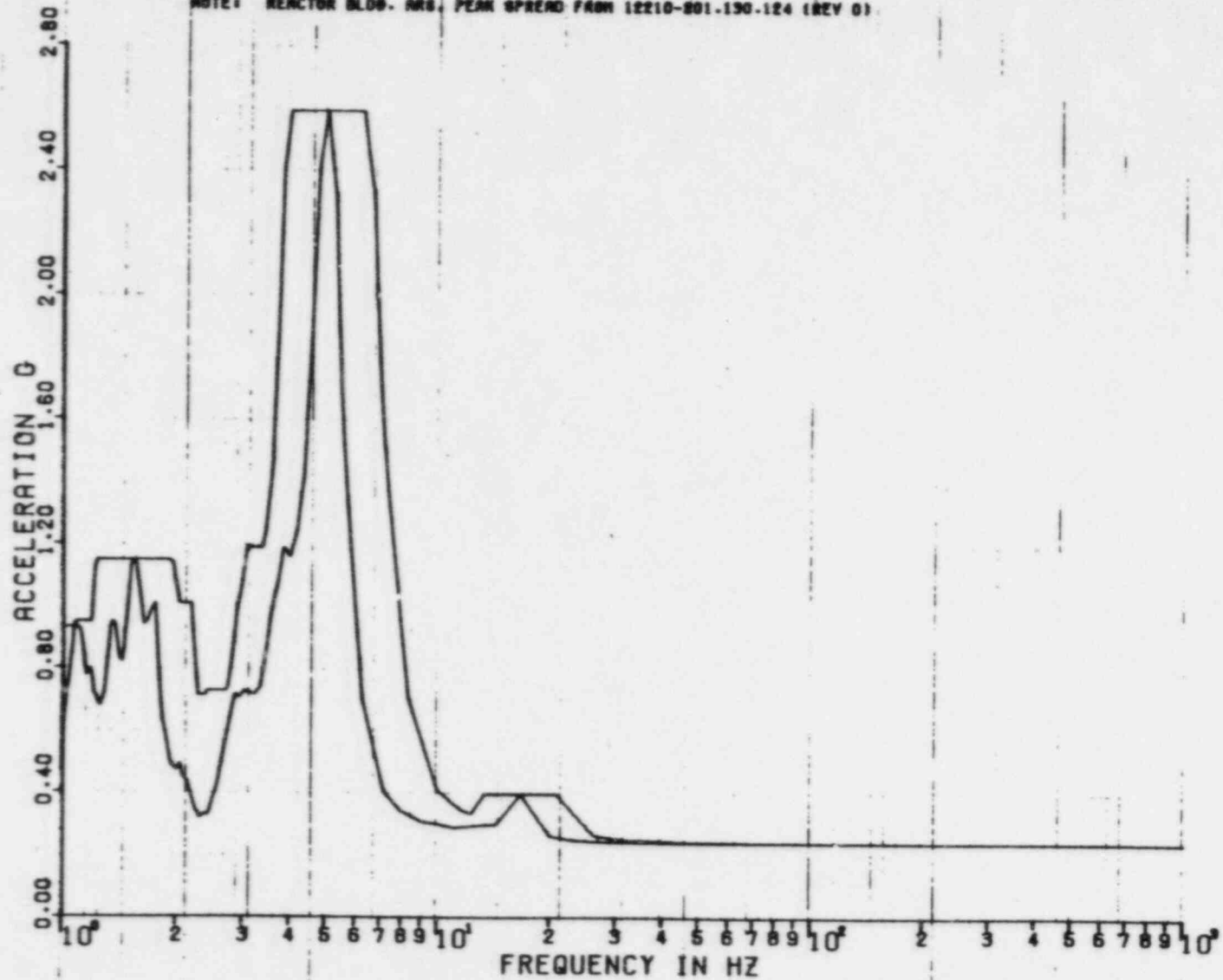
0.5 SSE

NOR DIRECTION

K.KAY

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RRS, PEAK SPREAD FROM 12210-801-130-124 (REV 0)



REF 100

P6PECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-R86 UNIT 1-CALC12210-NM(C)-SQE-1909 REV(0)  
RRS OF ACC.-REACTOR BLDG-EL-139.07, MASS=92 SE16 MODEL-RPV  
PEAK SPREAD -20%, +25%

145

DISK CURVE SET NO.61

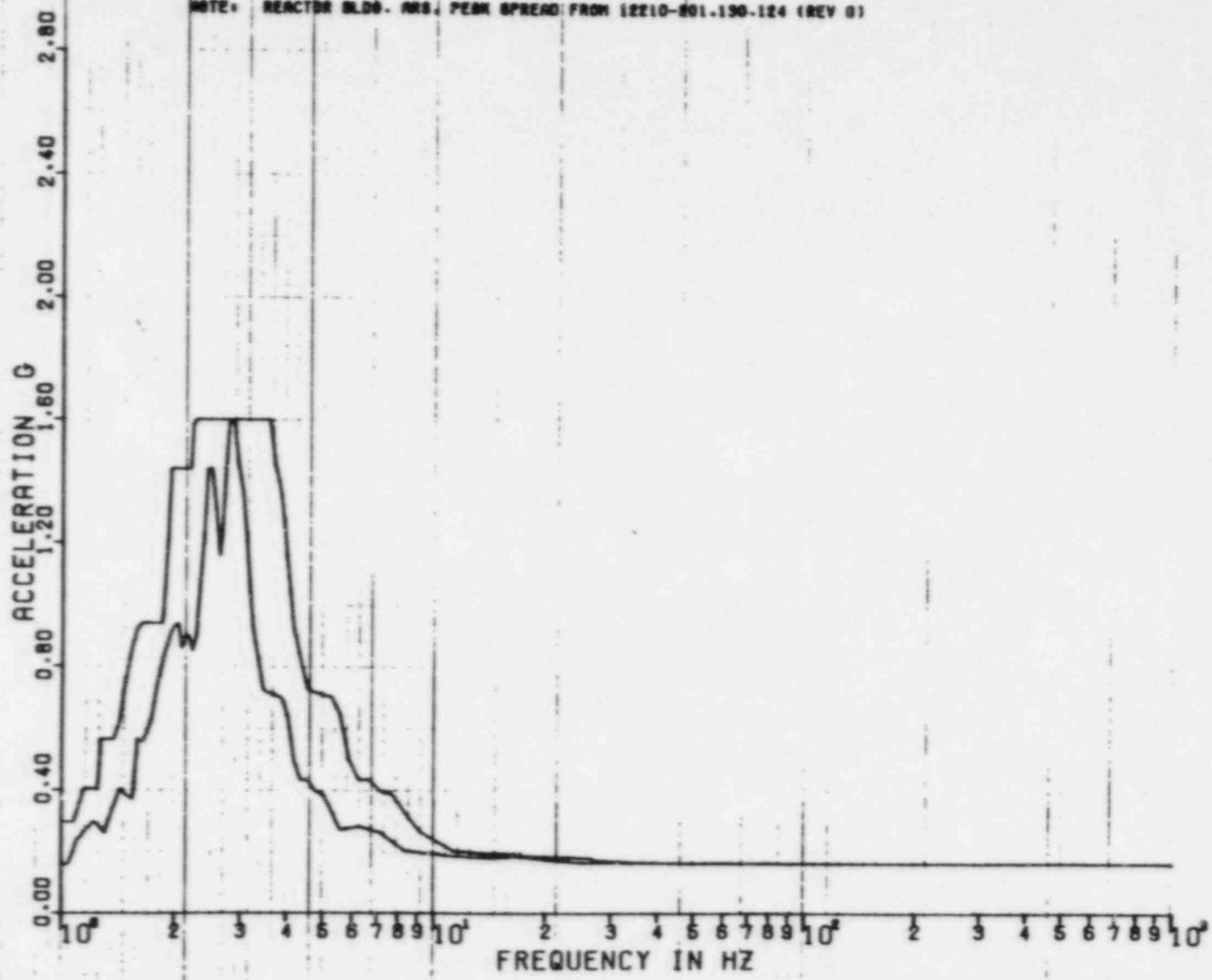
D.5 SSE

VER DIRECTION

K.KAY

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RRS, PEAK SPREAD FROM 12210-201.130-124 (REV 0)



REF 100





DATA

8 FEB 1983

K. KRY

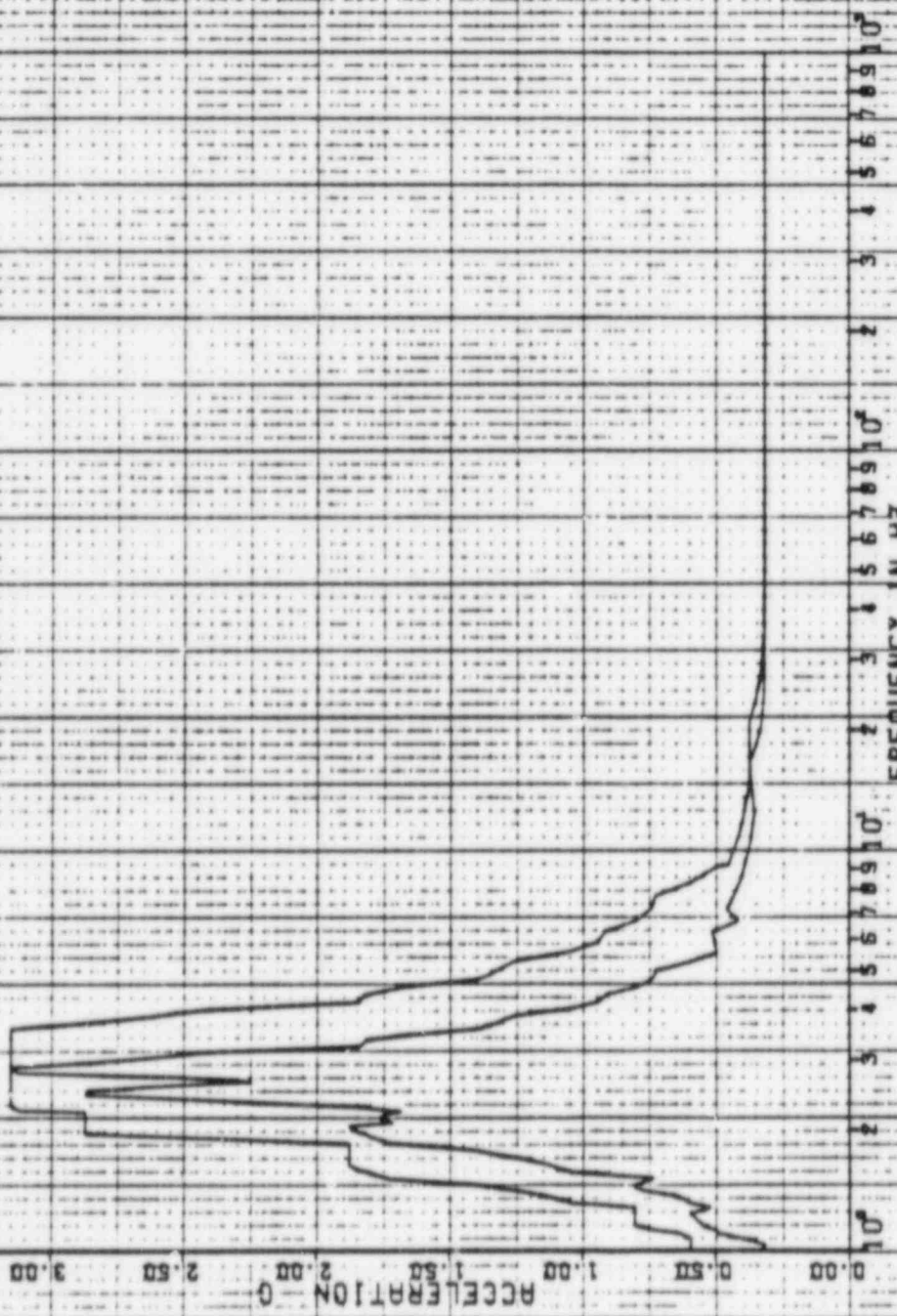
DAMPING VALUE = 0.020

SPECTRA VER 01 LEV 08  
 GULF STATES UTILITIES-RSS UNIT 1-CR12210-NR1CJ-502-1903 REV11)  
 RRS OF ACCI--REACTOR BLDG. . EL=133.07, MASS=32 5E16 MODEL-RPV1INT)  
 PEAK SPREAD --20Z +25Z

1.0 56Z VER DIRECTION

NOTE: REACTOR BLDG. NR8. PEAK SPREAD FROM (2210-001.130.184 INCY 0)

DISK CURVE SET NO. 62



10<sup>0</sup> 2 3 4 5 5.678910<sup>1</sup>  
 FREQUENCY IN HZ

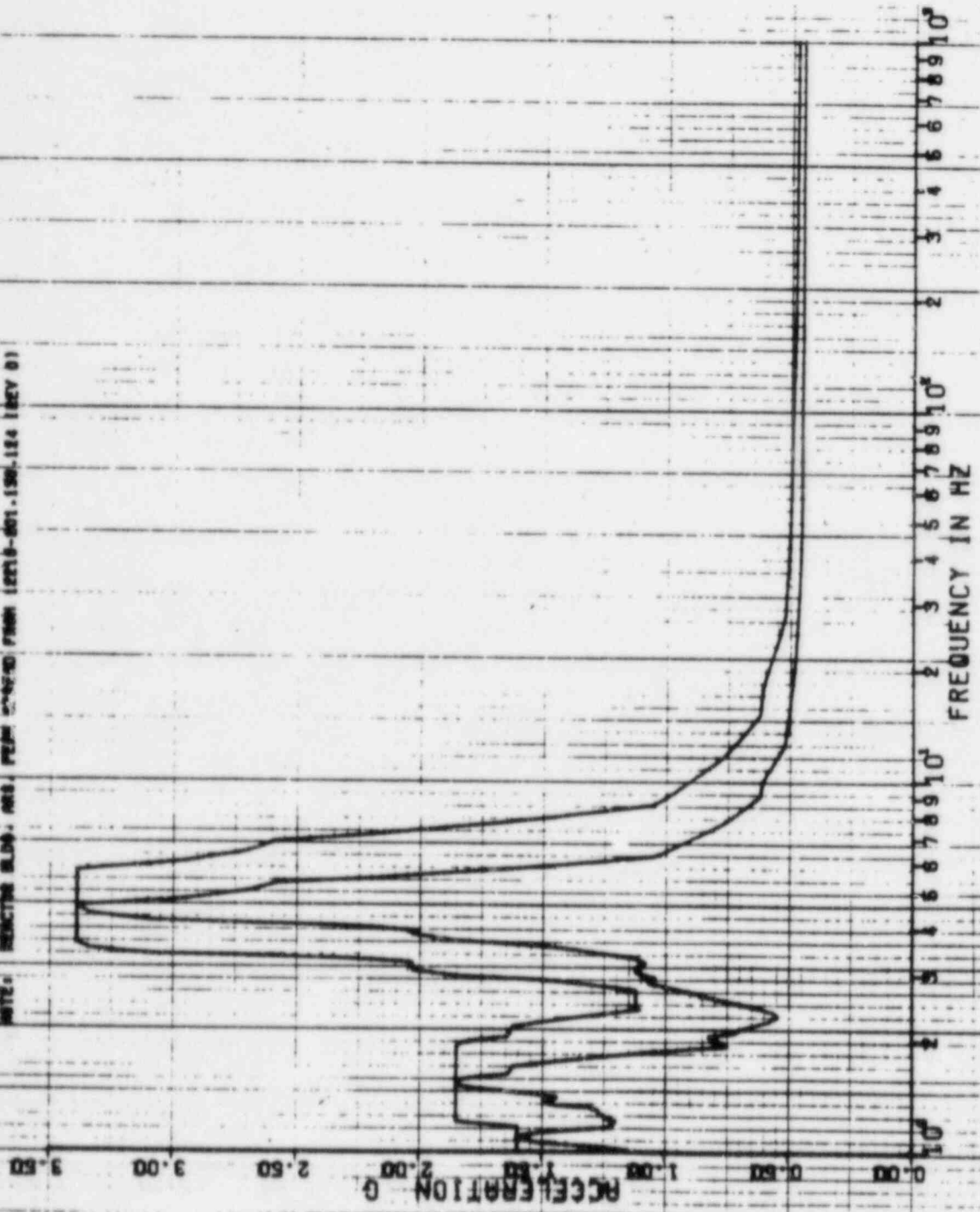
31.4

22 APR 1982

K. KAY

DAMPING VALUE = 0.080

PSECTRN VER 01 LEV 07  
 DULF STATE UTILITIES-RBS UNIT 1-CALC12210-MH(C)-SDE-1909 REV10  
 RRS OF REC.-REACTOR BLDG. EL-199.07.MASS=92 SEIS MODEL-RPV  
 PERK SP/RECD -202L.25X  
 DISK CURVE SET NO.62  
 1.0 SSE HOR DIRECTION  
 NOTE: REACTOR BLDG. MASS PERM ATTEND FROM 12210-001.199-184 1REV 01



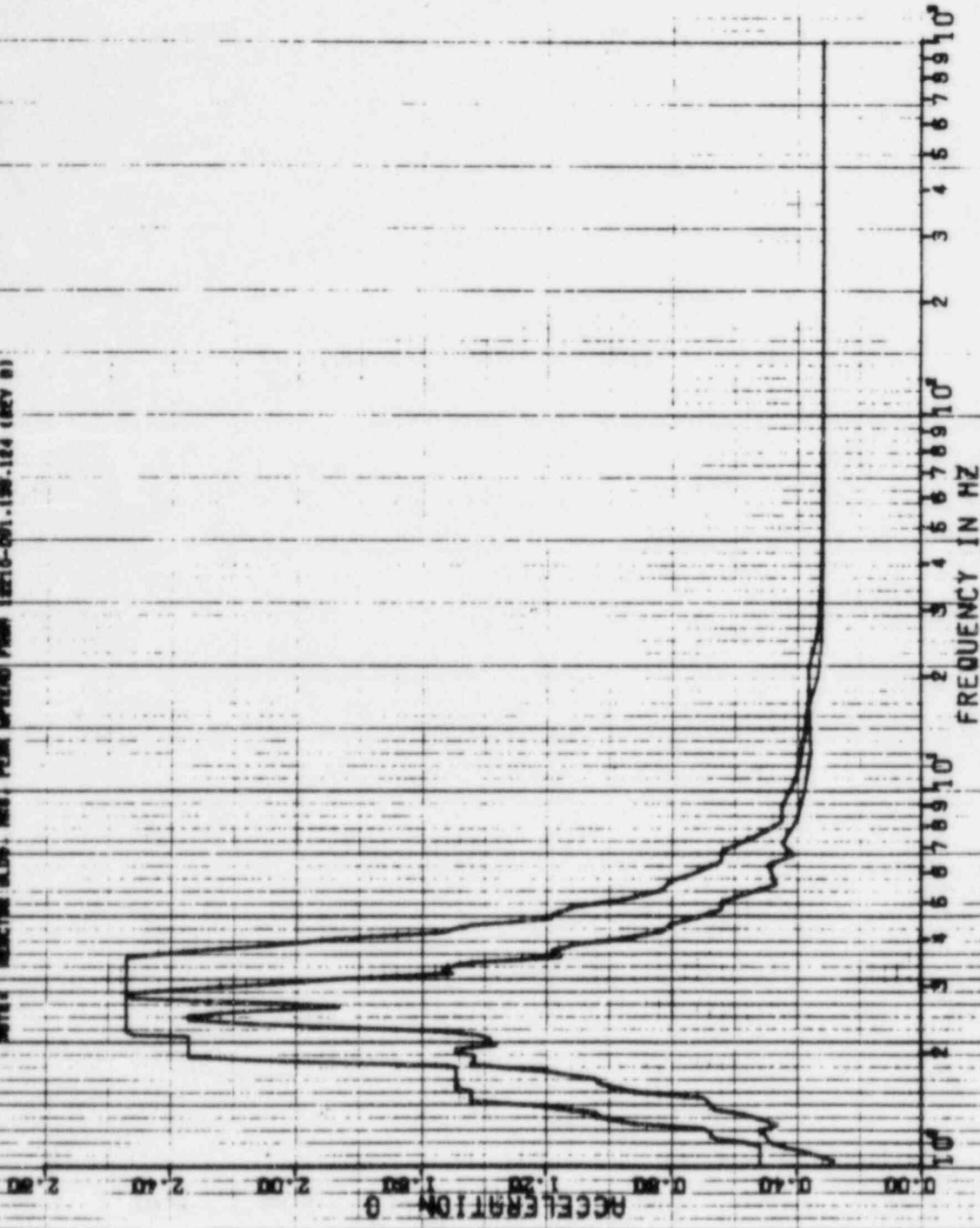
3.7.4

22 APR 1962

K. KAY

DAMPING VALUE = 0.050

PIPELINE VER D1 LEV D7  
 DULY STATE UTILITIES-806 UNIT 1-CALC1212D-MH(C)-50E-1903 REV(0)  
 RRS OF REC.-REACTOR BLDG.-EL-135.07.MASS-52 SEIS MODEL-RPV  
 PERK SPEND -202.425Z  
 DISK CURVE SET NO.82  
 1.0 SSE VER DIRECTION  
 NOTE: REACTIVE BLDG. MASS FROM SPREAD FROM 1210-001.136.184 (REV B)





PSPECTRA VER DI LEV 07  
CULT STATE UTILITIES-RBS ONLY 1-CRL12210-MNCT1-SDE-1903 REV 03  
RES OF ACC-REACTOR BLDG. EL=188.07, MASS=52 SETS MODEL-RPV  
PEAK SPREAD=20Z.25V

DISK CURVE SET NO.52

NOTE: REACTIVE WLDN. HAS. PEAK SPREAD/MON (2218-201 (SD. 14 18DV 0)

1-D 5BE HDR DIRECTION

DAMPING VALUE = 0.000

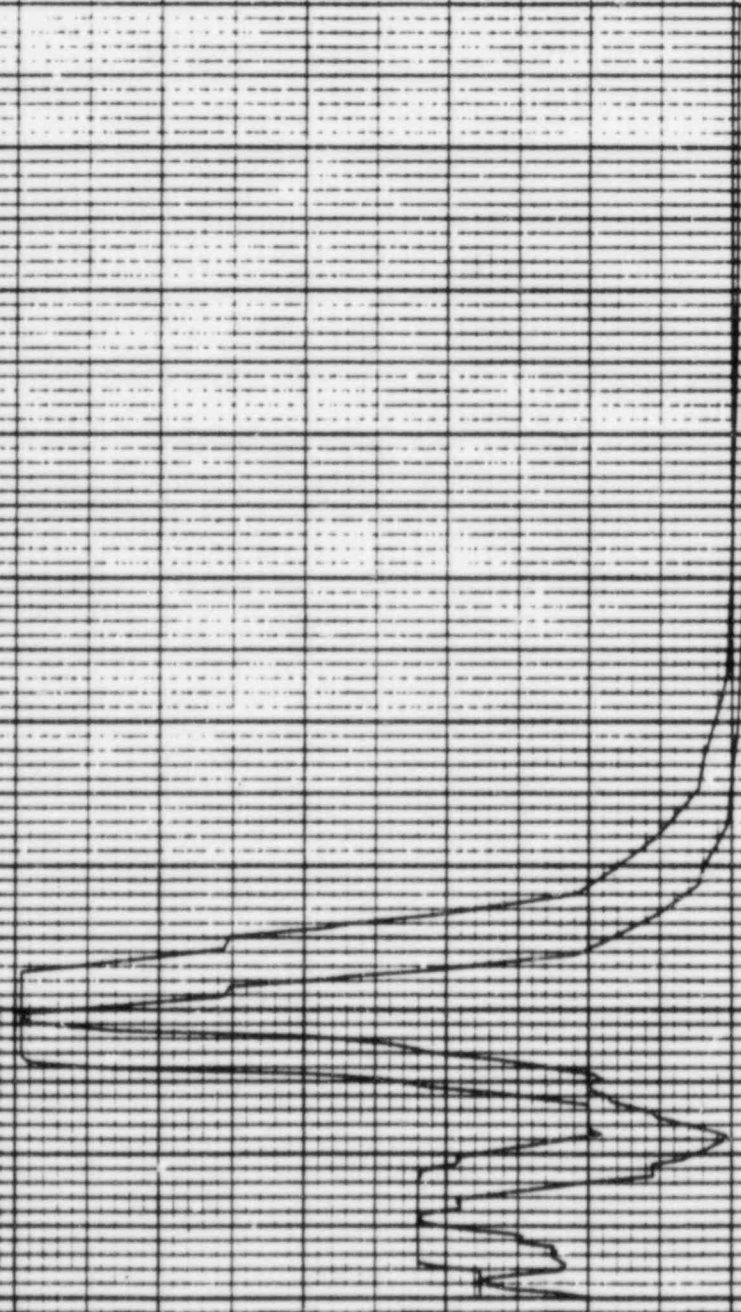
K-KRY

22 APR 1982

7

ACCELERATION  
0 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00

FREQUENCY IN HZ  
10<sup>0</sup> 2 3 4 5 6 7 8 9 10<sup>1</sup>  
10<sup>0</sup> 2 3 4 5 6 7 8 9 10<sup>1</sup>



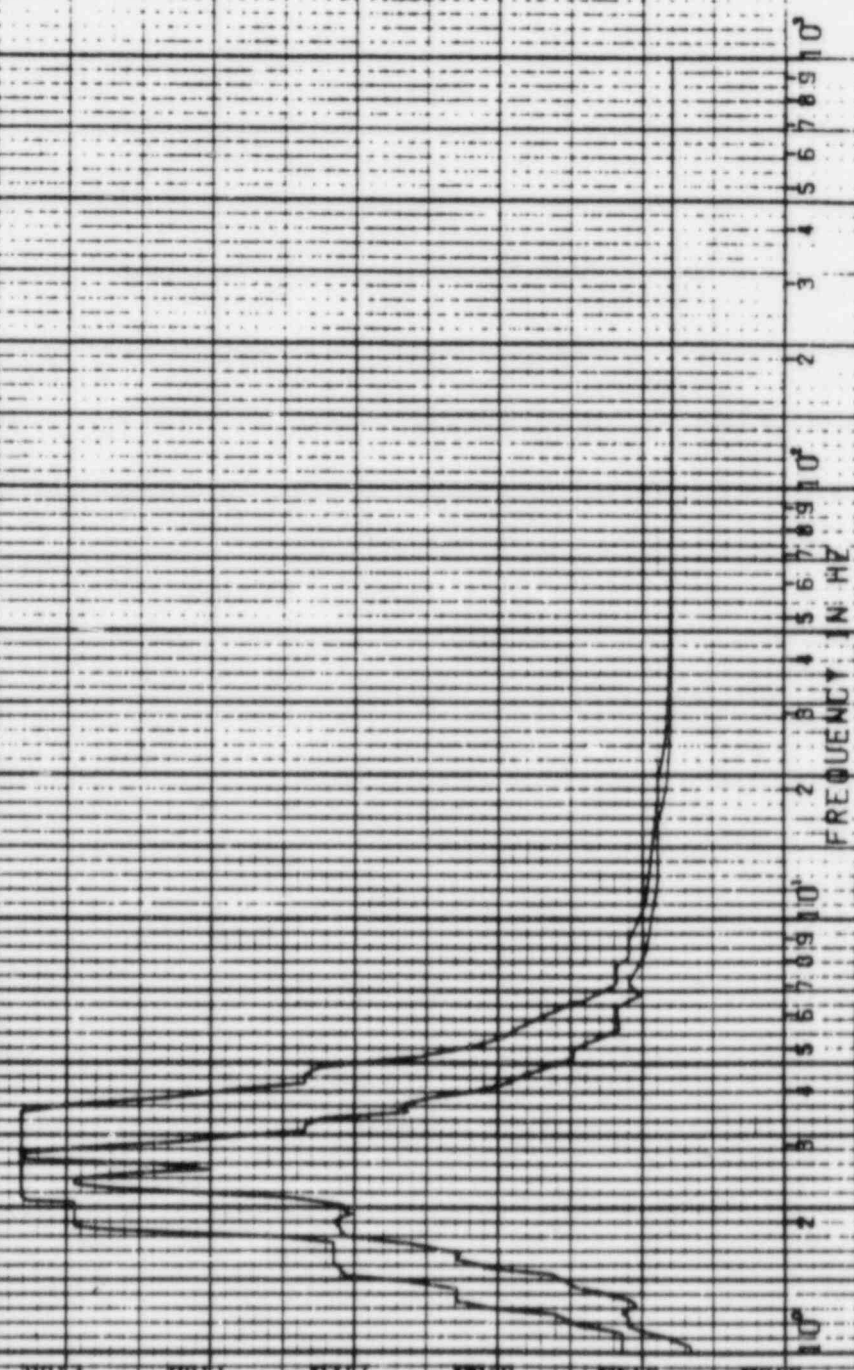
7639

22 APR 1982

K...RAY

DAMPING VALUE = 0.040

SPECTRA VER D1 LEV D0  
 CULF STATE UNIV L11E5-R85 UNIV I-CALC I2210-NHTCY-507-1908 REV D)  
 RRS OF ACC - RECFOR BLDG. EL-199.07, HASSE-82 SETS: KJOEL-RPV  
 PERK SUPERD - 20V. 25V  
 DISK CURVE SET NO. 52  
 I.D. 55E VER. DIRECTION  
 WAVE: MEASURING ALBE PAS. PEAK SHOWN FROM 4200-500 (50.124 INCH b)



FREQUENCY IN HZ

PSPECTRA VER 01 LEV 07

22 APR 1982

21A W

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NM(C)-6QE-1909 REV(0)  
RMS OF ACC.-REACTOR BLDG.EL=138.03,MASS=93 SEIS MODEL-RPV  
PEAK SPREAD -20%,+25%

DISK CURVE SET NO.63

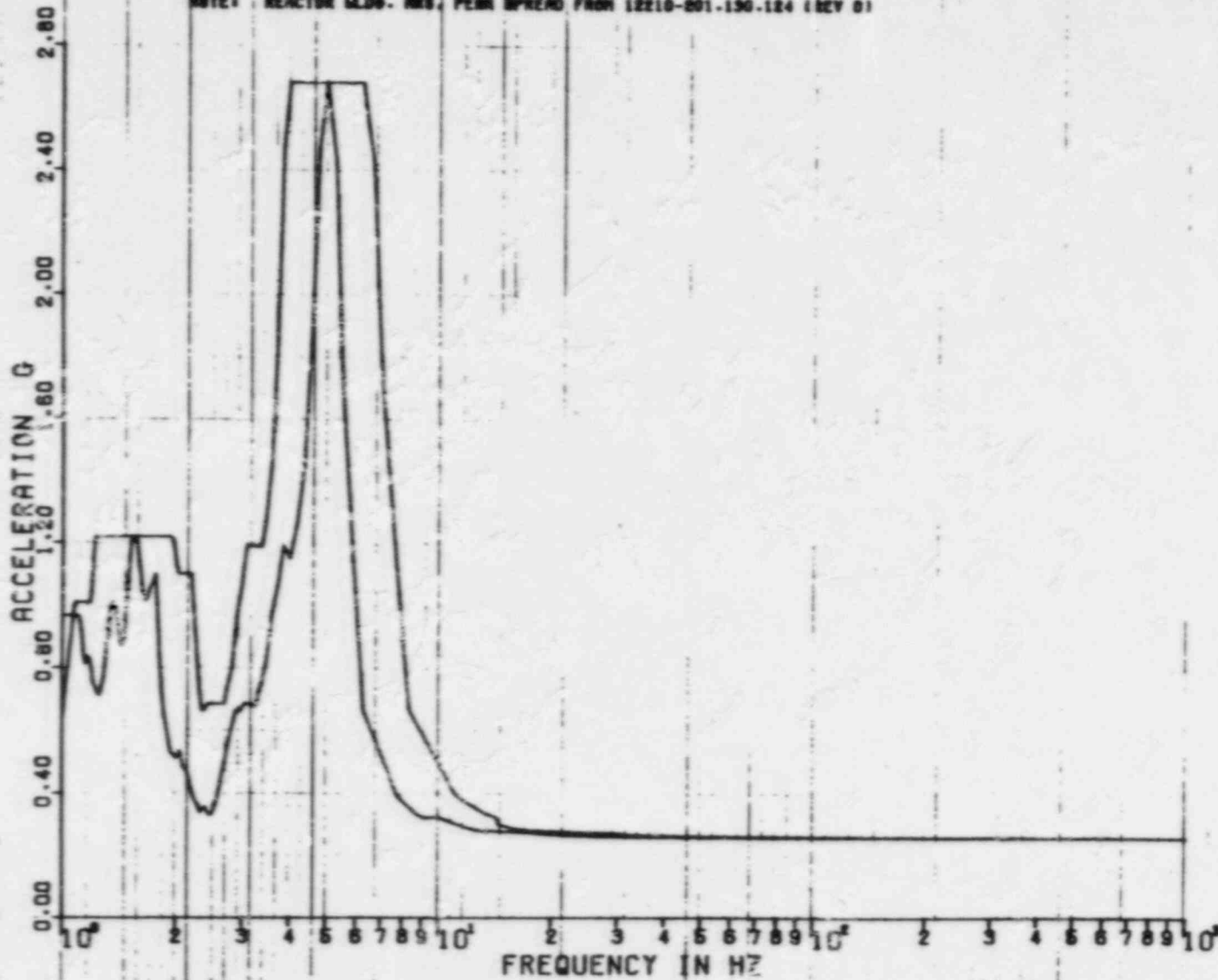
0.6 SSE

HOR DIRECTION

K.KAY

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RMS, PEAK SPREAD FROM 12210-201-130-124 (REV 0)



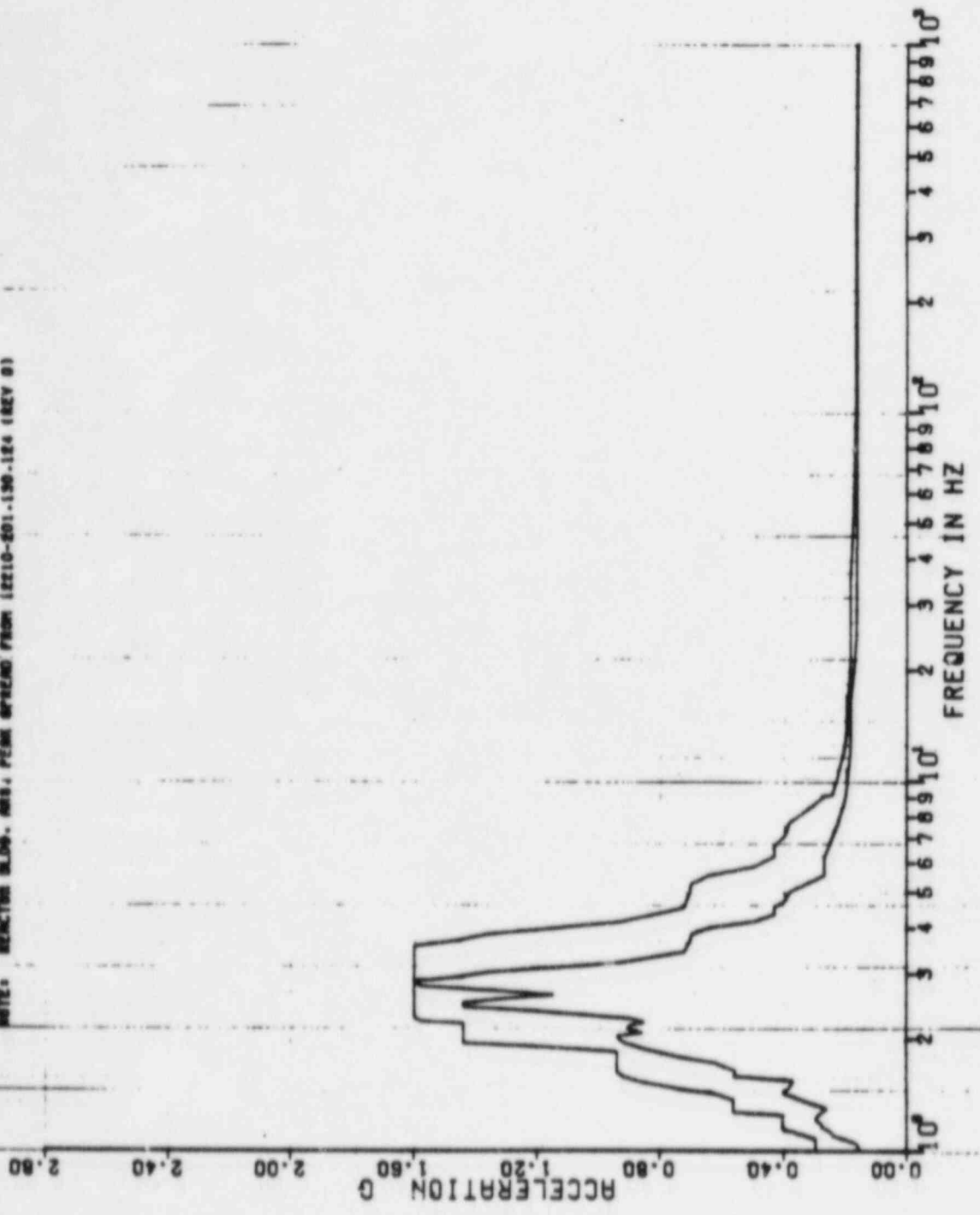
REF 101



22 APR 1982  
K. KAY  
DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 07  
GULF STATE UTILITIES-RBS UNIT 1-CALC1221D-MM(L)-60E-1909 REV(0)  
RBS OF ACC.-REACTOR BLDG.-EL-198.03.MASS=33 SEIS MODEL-RPY  
PEAK SPREAD -20%.+25Z  
OBE

DISK CURVE SET NO.63  
0.5 SSE VER DIRECTION  
NOTE: REACTOR BLDG. RBS, PEAK SPREAD FROM 12210-201.190-124 (REV 0)



0.504

8 1 -B 1963

K. KAY

DAMPING VALUE = 0.020

PSPECTRA VER D1 LEV 08  
 DULF STATES UTILITIES-MS UNIT 1-CAL-12210-MMCI-6DE-19D3 REV11  
 RRS OF ACC.-REACTOR BLDG.-EL-138.03, MASS-33 SE16 MODEL-RPV  
 PEAK SPREAD -20Z +25Z

1.0 55E HOR DIRECTION

NOTE: REACTOR BLDG. MASS PEAK SPREAD FROM 12210-001.130-124 (REV D)

DISK CURVE SET NO.64

5.00

4.00

3.20

2.40

1.60

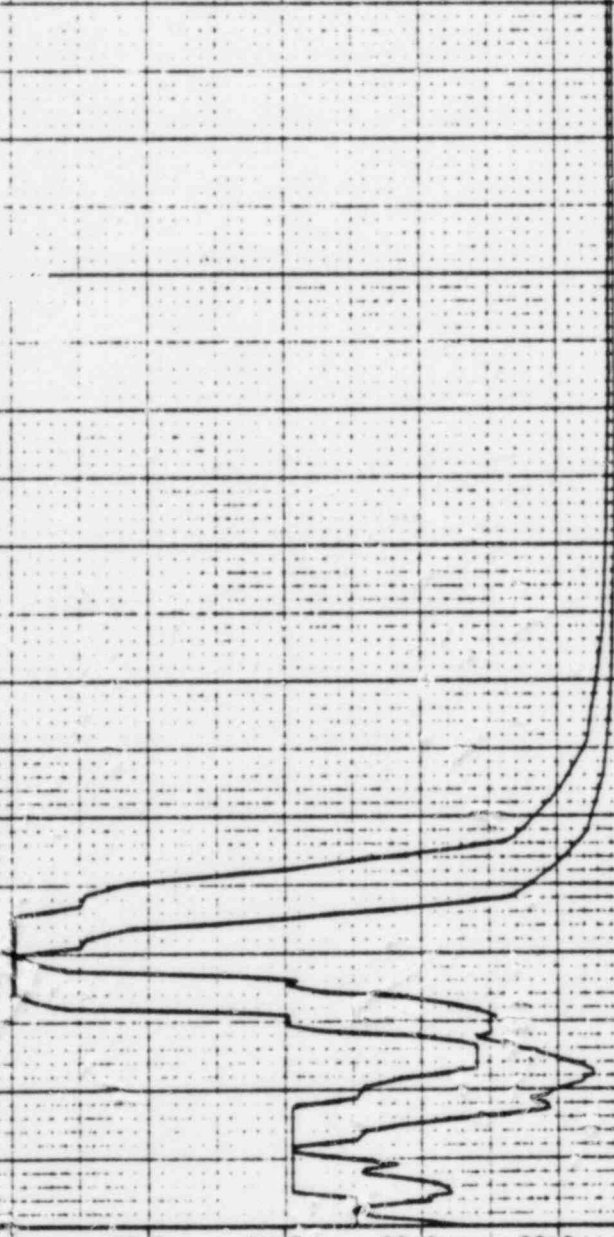
0.80

0.00

ACCELERATION G

10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup> 10<sup>9</sup> 10<sup>10</sup>

FREQUENCY IN HZ



11-A

8 FEB 1963

K. KRY

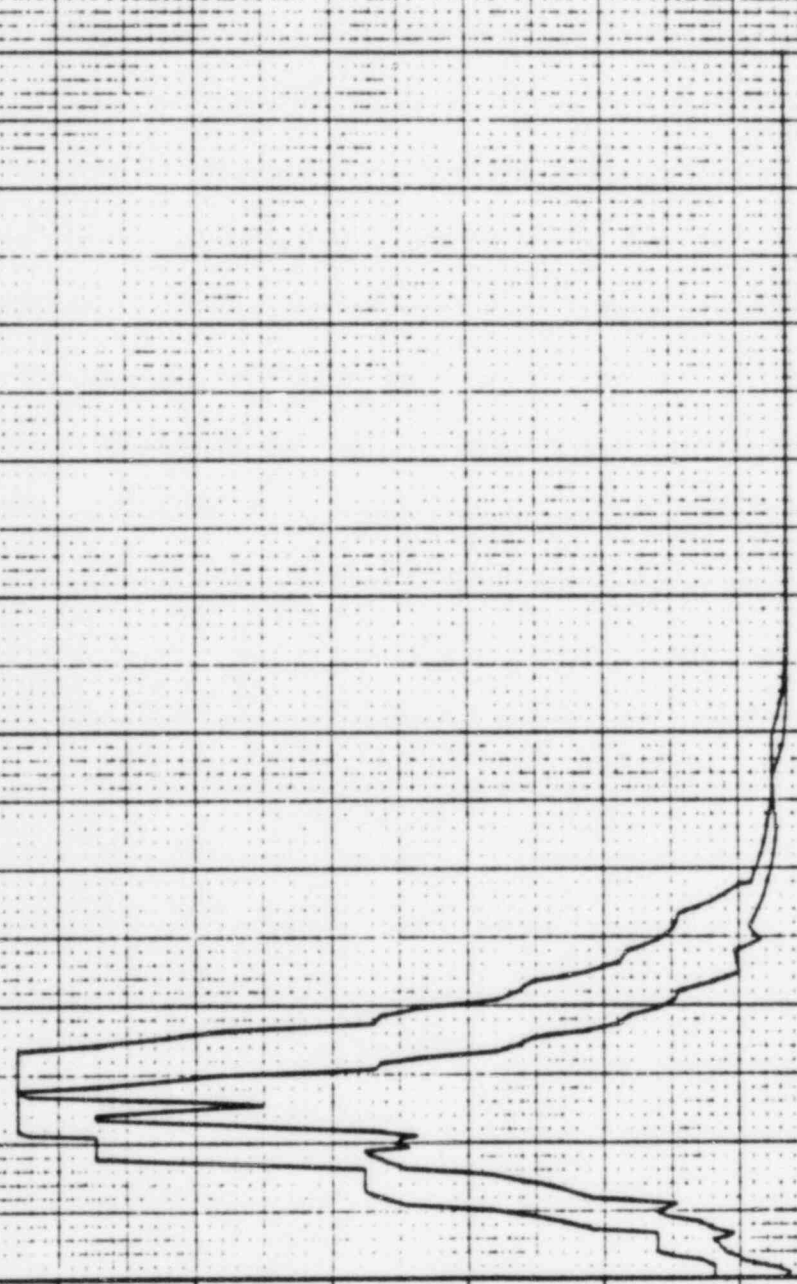
DAMPING VALUE = 0.0520

PSPECTRA VER 01 LEV 08  
 GULF STATES UTILITIES-R06 UNIT 1-CALC(12210-N01C)-50E-1903 REV117  
 MRS OF ACC.-REACTOR BLDG.-EL-19B-D3, MRS5253 6E16 MODEL-RPV  
 PEAK SPREAD -20Z →25Z  
 DISK CURVE SET NO.64

1.0 55E VER DIRECTION

NOTE: REACTOR BLDG. MRS PEAK SPREAD FROM 12210-001.150-124 18EY 01

ACCELERATION 0 0.50 1.00 1.50 2.00 2.50 3.00 3.50



10^0 1.00 0.50 0.00 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 5.676910^1

FREQUENCY IN HZ



PSPECTRA VER 01 LEV 07

22 APR 1982

39-

DULF STATE UTILITIES-RBS UNIT 1-CALC12210-NH(C)-6QE-1909 REV(0)  
RR6 OF ACC.-REACTOR BLDG. EL=138.03, MASS=99 SEIS MODEL-RPV  
PEAK SPREAD -20%.+25% 6SE

DISK CURVE SET NO.64

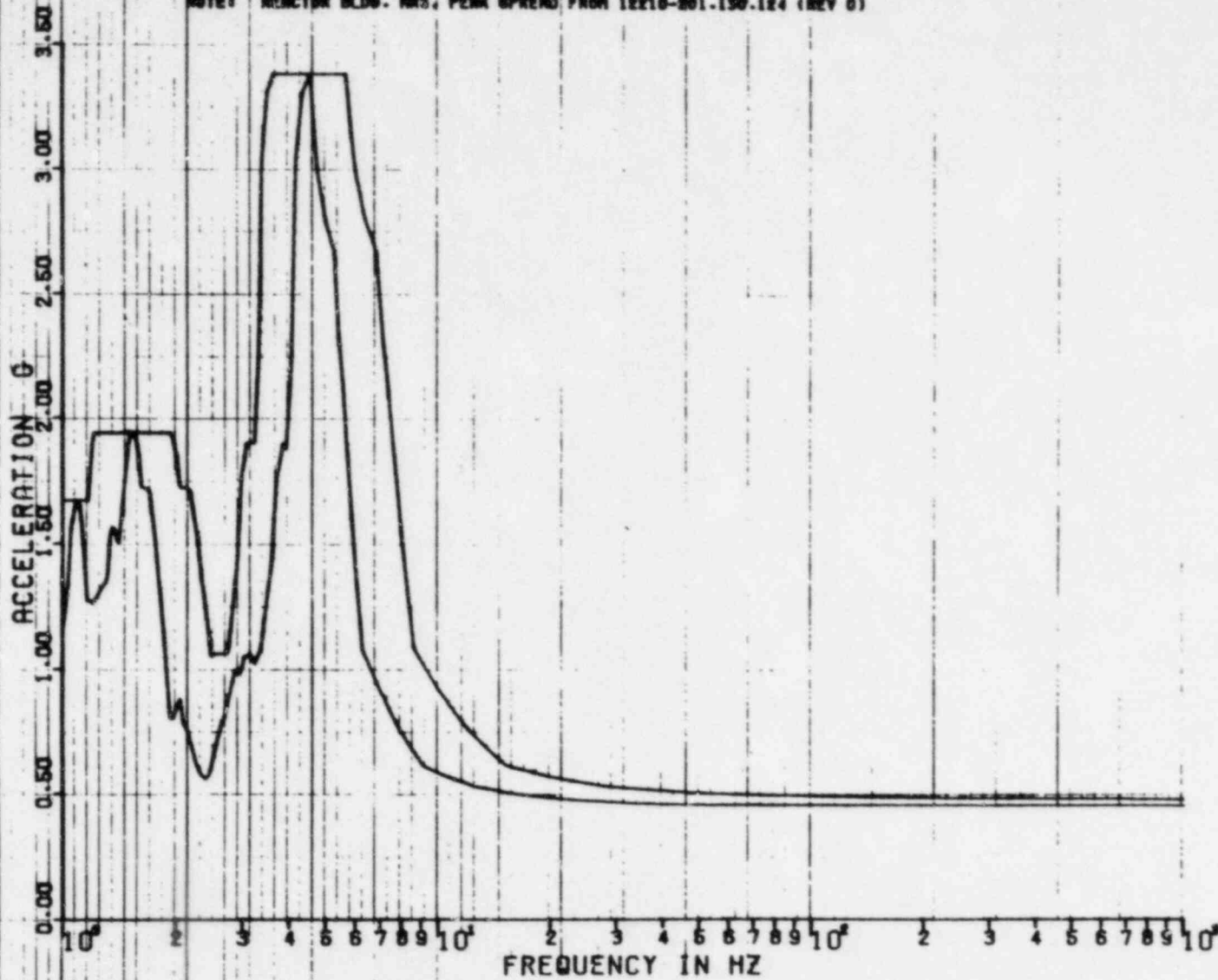
1.0 6SE

NOR DIRECTION

K.KAY

DAMPING VALUE = 0.030

NOTE: REACTOR BLDG. RR6, PEAK SPREAD FROM 12210-201.150.124 (REV 0)



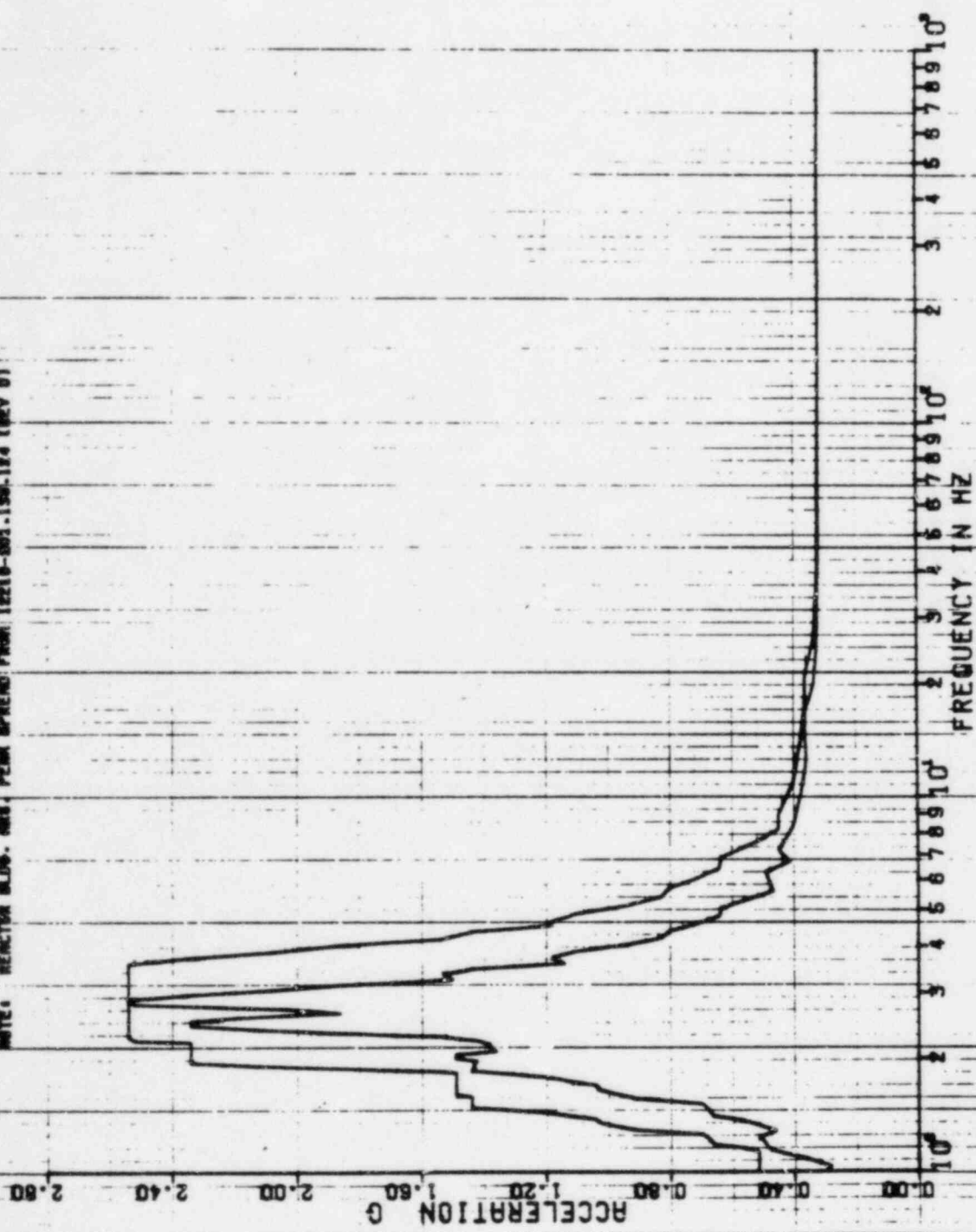
REF 101

22 APR 1982

K.KAY

DAMPING VALUE = 0.050

PEPECTRA VER 01 L... 07  
 DOLF STATE UTILITIES-RBS UNIT 1-CALC12210-NHICU-SQE-1909 REV10)  
 RRB OF ACC.-REACTOR BLDG-EL-198.03.MASS-93 SE16 MODEL-RPV  
 PEAK SPREAD -20%.+25Z  
 DISK CURVE SET NO.84  
 1.0 SSE VER DIRECTION  
 NOTE: REACTOR BLDG. RBS. PEAK SPREAD FROM 12210-001.198.184 (REV 0)



7A

22 APR 1988

K. KAY

DAMPING VALUE = 0.010

SPECTRA VER 01 LEV 07  
 GULF STATE UTILITIES-RBS UNIT 1-CALC 12210.MIT 17-S01 1903 REV D  
 RMS OF ACC-REACTOR BLDG. ELE 138.03. MASS=83 SE 16 MODEL-RPV  
 PEAK SPREAD 1.07 1.052

1-D SSE HDR DIRECTION

50 REL. MARCH 11 04. 1988. PGM 244980 FROM (2210-S01 130.14 185V D)

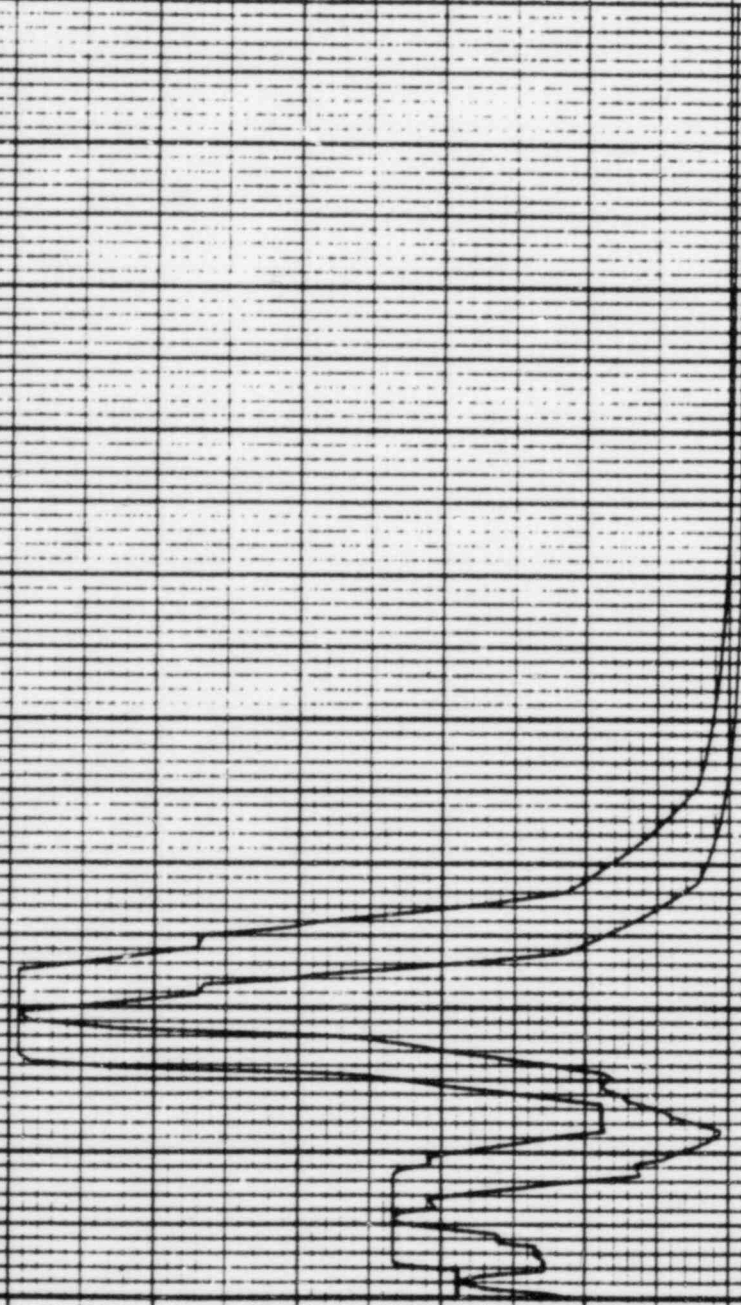
DISK CURVE SET NO. 5A

ACCELERATION G

FREQUENCY IN HZ

0.00 0.50 1.00 1.50 2.00 2.50 3.00 3.50

10<sup>0</sup>





2A

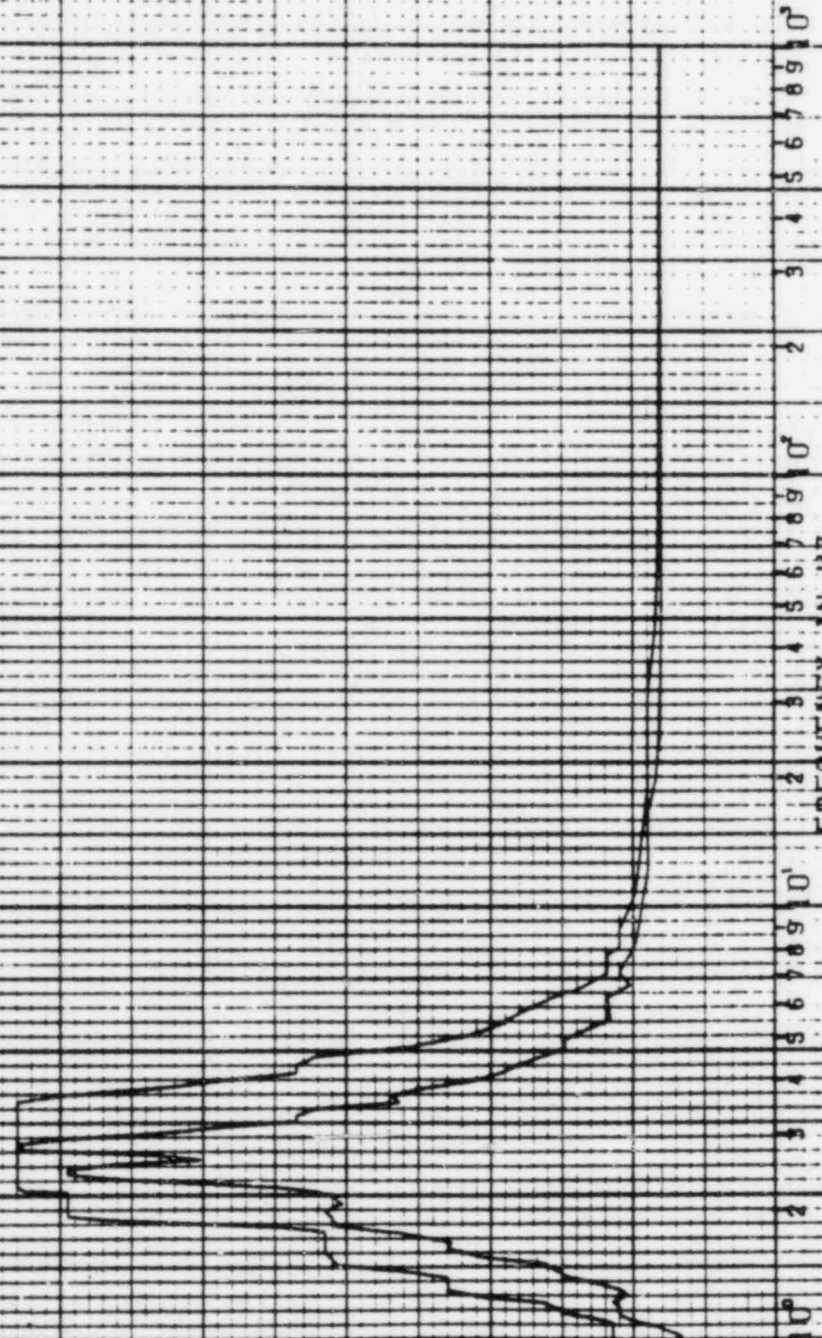
22 APR 1982

K-KAY

DAMPING VALUE = 0.040

PSPECTRA VER 01 LEY 07  
 GULF STATE UTILITIES 805 UNIT 1 - CAL 12210 - NRIC 1-50E-1903 REV 101  
 WRS OF REC. - REACTOR BLOCICLE 38.03 - MASS-93 SE S. MODEL-RPV  
 PERK SPEED - 207.257 SSE  
 DISK CURVE SET W0.168 1.0 SSE VER DIRECTION  
 DATE: REACTOR BLOC. REG. PERK SPEED R03H 12210-201 130.14 165V 01

ACCELERATION G  
 0.00 0.40 0.80 1.20 1.60 2.00 2.40 2.80



10<sup>0</sup> 2 3 4 5 6 7 8 9 10<sup>1</sup> 2 3 4 5 6 7 8 9 10<sup>2</sup>  
 FREQUENCY IN HZ