SEISMIC/HYDRODYNAMIC UPSET AND FAULTED 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

C4/12210/124/4Y

REQUIRED RESPONSE SPECTRA (RRS)

Mass Point - Location	Elevation (ft)	Reference No.*
28 - Mat	60.00	35
1 - Top of Mat	70.00	36
3 - Shield Building	112.67	37
4 -	132.99	38
5 -	153.32	39
6 -	173.65	40
7 -	193.98	41
8 -	214.31	42
9 -	248.00	43
10 - Comp. Shield Building	95.00	44
34 -	85.00	45
11 - Steel Containment	114.00	46
12 -	133.00	47
13 -	162.00	48
14 -	185.00	49
15 -	212.00	50
16 -	239.20	51
17 - PSW Pedestal	95.00	52
18 -	101.00	53
19 - Primary Shield Wall (PSW)	117.00	54
20 -	133.00	55
21 -	147.00	56
22 - Drywell	96.00	57
23 -	114.00	58
24 -	133.00	59
25 -	143.00	60
26 -	162.00	61
27 -	185.00	62
29 - RPV	113.46	63
30 -	162.57	64
31 - RPV (Internal)	117.63	65
32 -	133.07	66
33 - RPV	138.03	67
None - Weir Wall	91.25	68

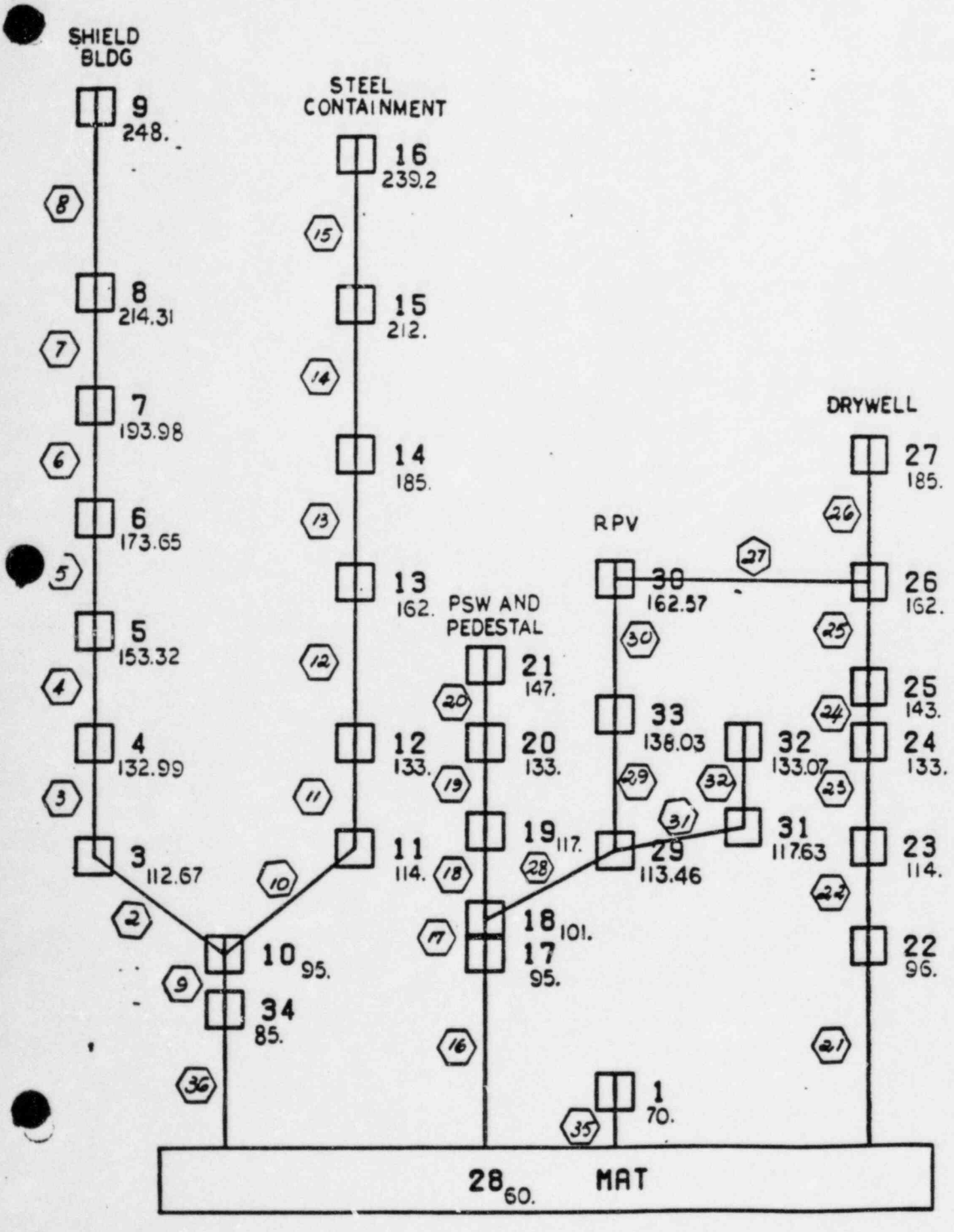
*Each reference number includes:

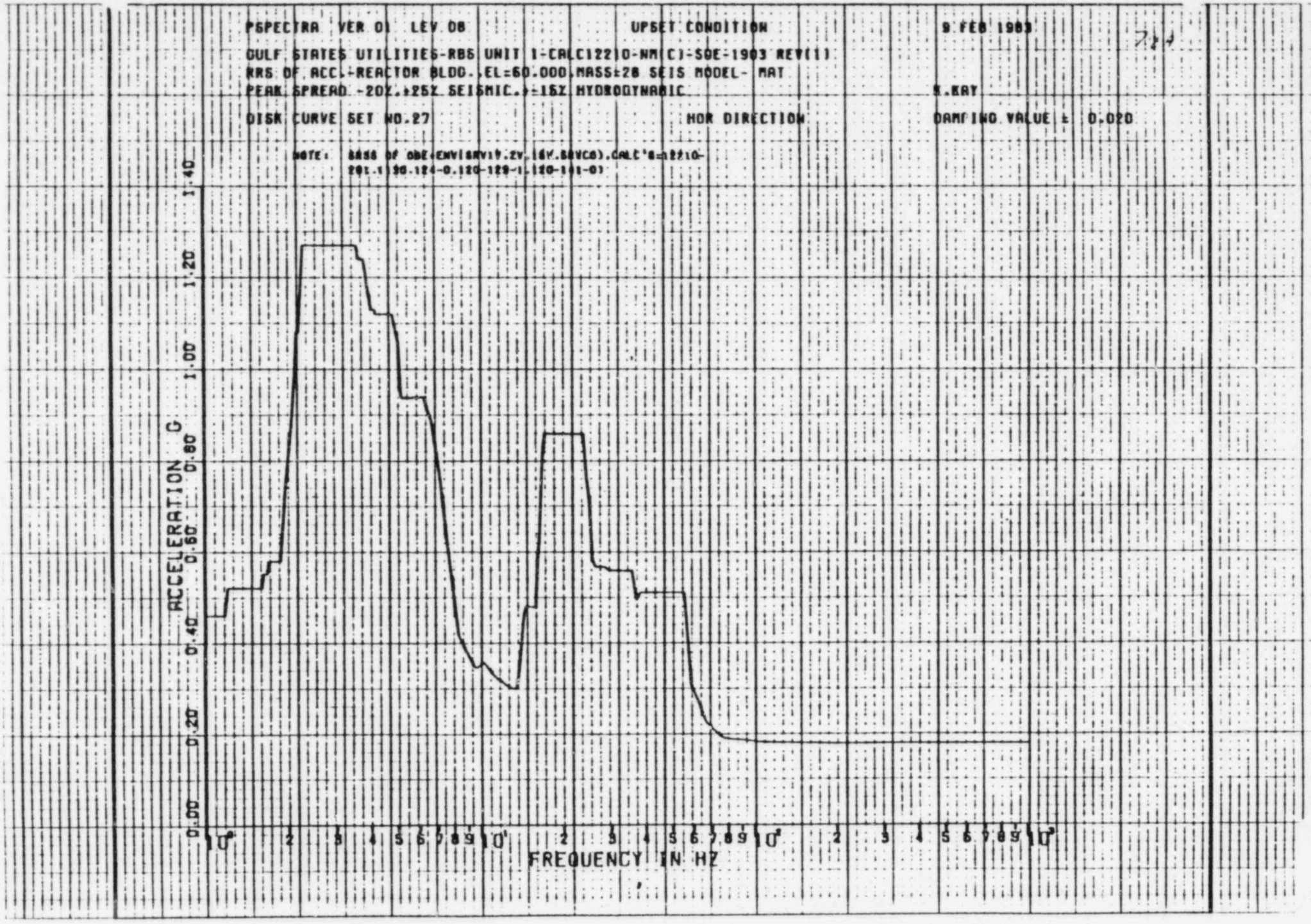
1. Horizontal and vertical direction UPSET condition at 2 percent damping.

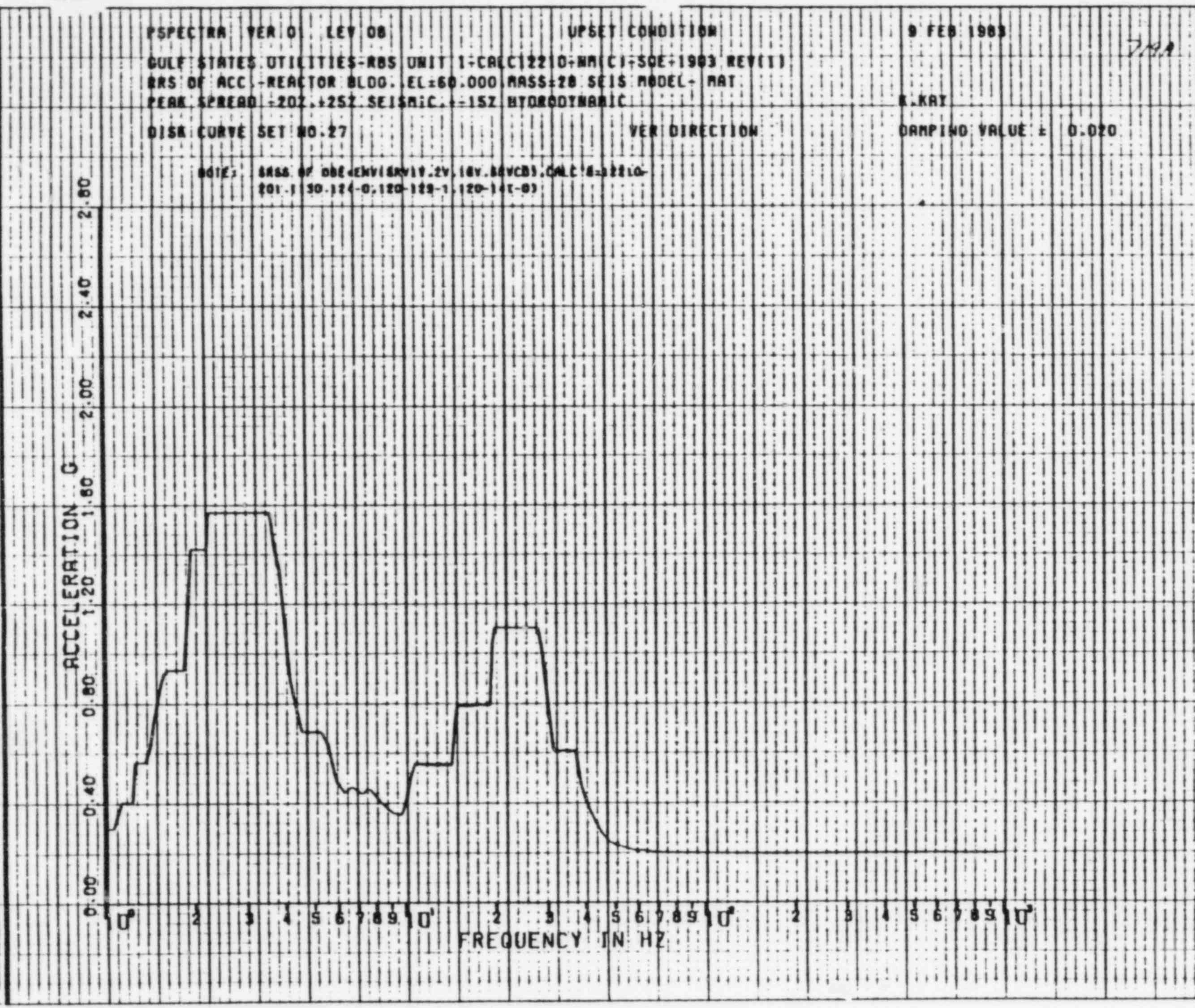
2. Horizontal and vertical direction FAULTED condition at 2, 3, and 4 percent damping.

G.S.U - R.B.1 - J.O 12210 CALC 201.130.124 - A.K.LE

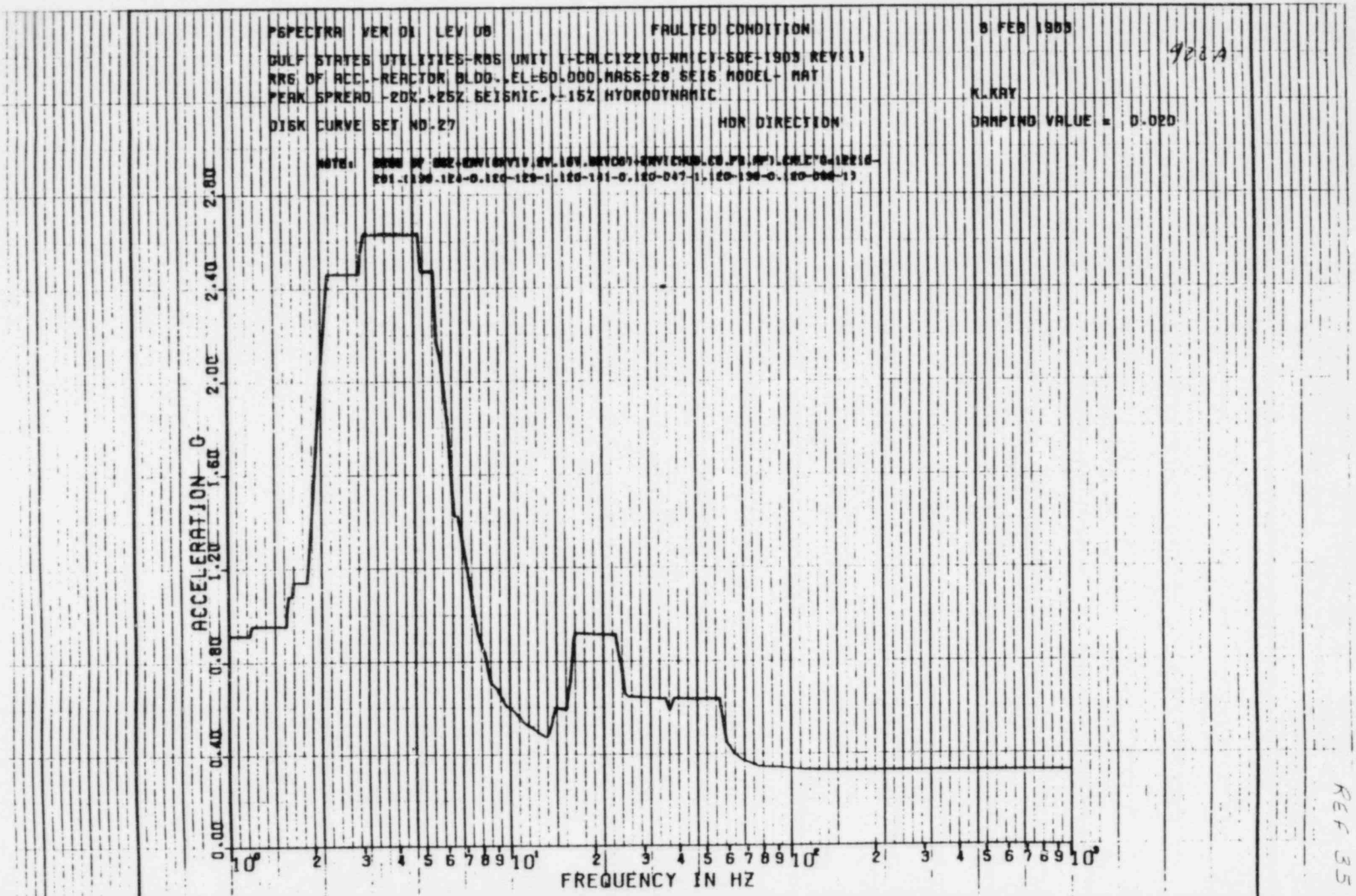
SEISMIC ANALYSIS OF REACTOR BUILDING W/CONCRETE FIX

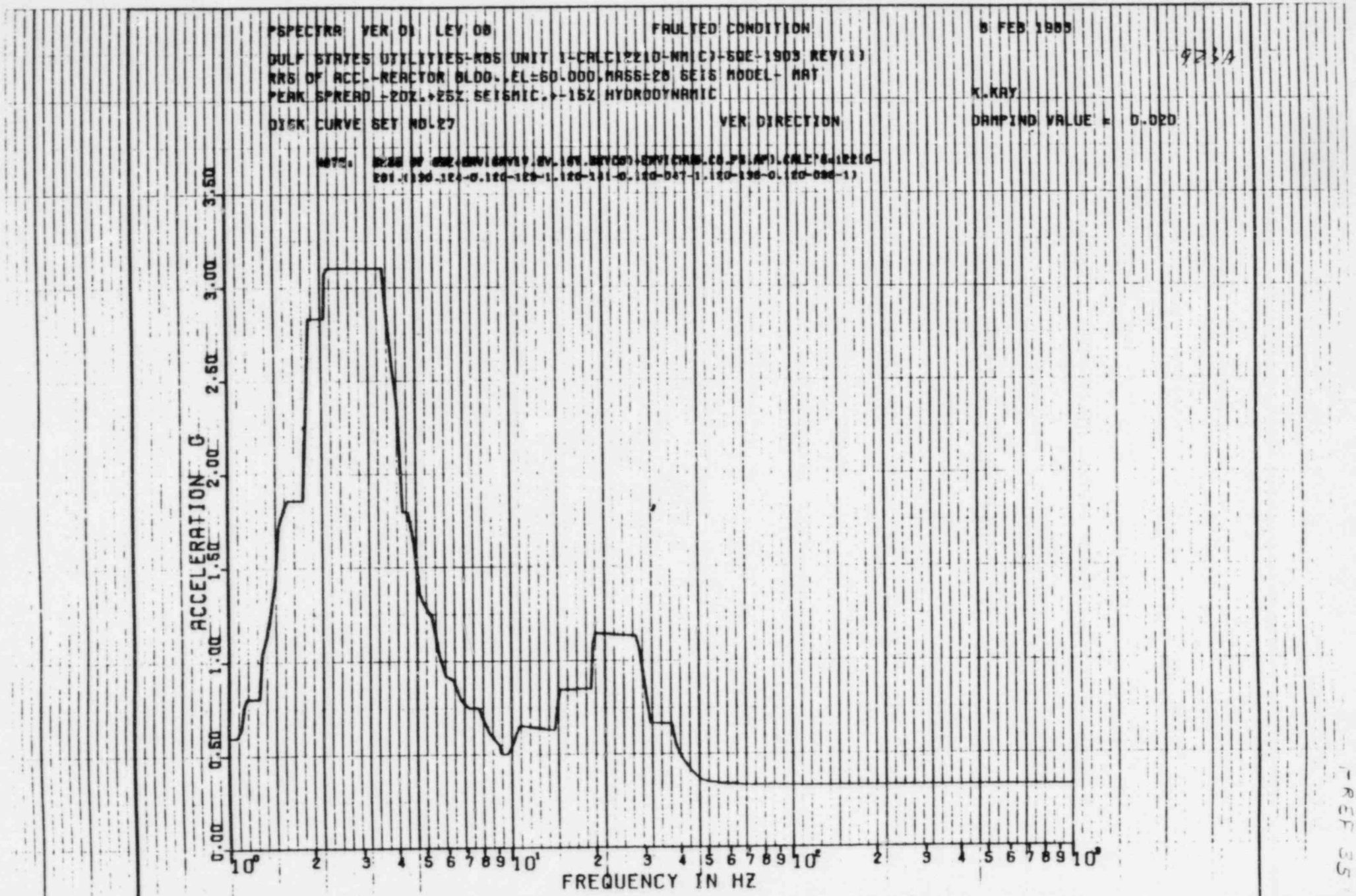



PSPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC1221.0-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=60.000 MASS=28 SEIS MODEL- MAT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
S.KAY
DISK CURVE SET NO.27
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: BASE OF OBE(ENV(SRV19.2V,18V.SRVC8).CALC'S=1221.0-201.1 30.124-0.120-129-1.120-141-0)
ACCELERATION G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
FREQUENCY IN HZ


PSPECTRA VER 0 LEV 08
UPSET CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC 12210-NM(C)-SQE-1983 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=60.000 MASS=28 SEIS MODEL- MAT
PEAK SPREAD -20%,+25% SEISMIC.+-15% HYDRODYNAMIC
R.KAY
DISK CURVE SET NO.27
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: BASS OF OBE<ENV(SRV)(1.2V,(BV.SRVCD).CALC 8=12210-
201-1)30.12(-0,120-129-1,120-14(-0)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ
10⁰
10¹
10²
10³

REF 55


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=60.000,MASS=28 SEIS MODEL- MAT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.27
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

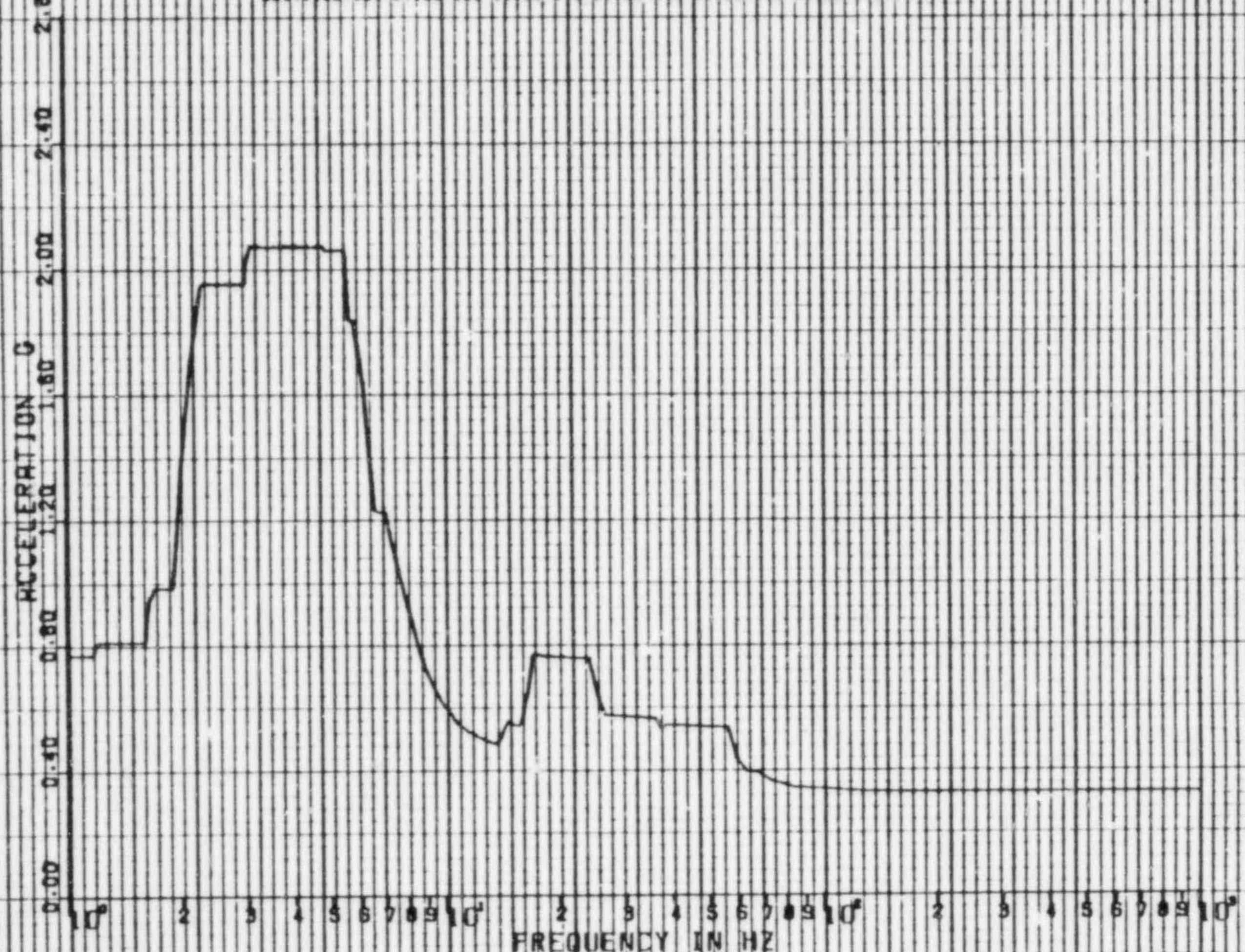

PSPECTRR VER 01 LEV 00
FAULTED CONDITION
8 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC(2210-NM(C)-SQE-1903 REV(1)
9734
RRS OF ACC.-REACTOR BLDG.,EL=60.000,MASS=28 SEIS MODEL- MAT
PEAK SPREAD +-20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.27
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
10^0
2
3
4
5
6
7
8
9
10^1
2
3
4
5
6
7
8
9
10^2
2
3
4
5
6
7
8
9
10^3
FREQUENCY IN HZ

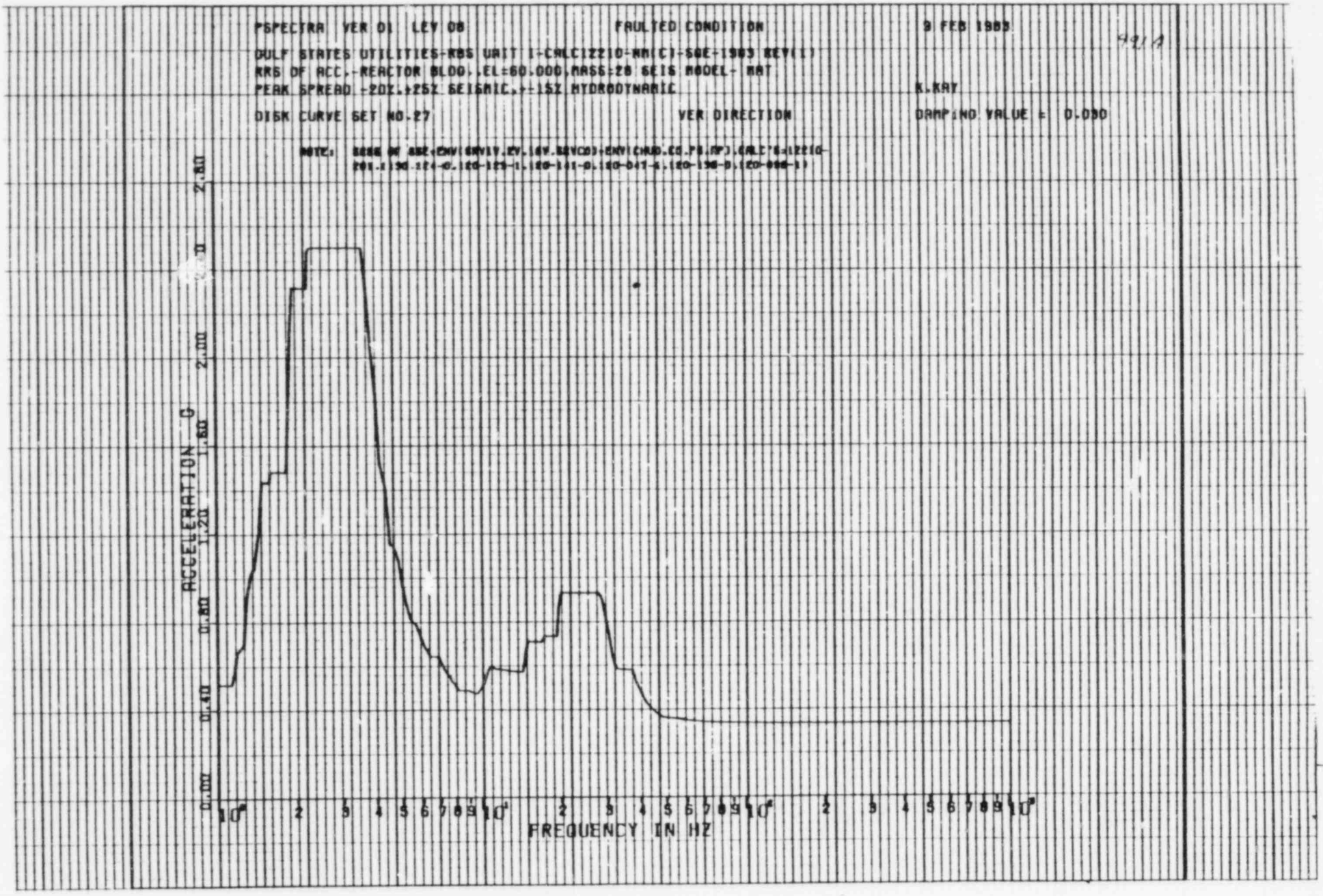
PSPECTRA VER 01 LEV 08 FAULTED CONDITION 9 FEB 1985

GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=60.000,MASS=28 SEIS MODEL- MAT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC K.KAY

DISK CURVE SET NO.27 HOR DIRECTION DAMPING VALUE = 0.030

NOTE:




PSPECTRA VER 01 LEV 08
FAULTED CONDITION
3 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NN(C)-SQE-1983 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=60.000,MASS=28 SEIS MODEL- MAT
PEAK SPREAD -20%,+25% SEISMIC,++15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.27
VER DIRECTION
DAMPING VALUE = 0.050
ACCELERATION G
2.80
2.00
1.60
1.20
0.80
0.40
0.00
FREQUENCY IN HZ

REF 35

REF 35

PSPECTRA VER 01 LEV 08 FAULTED CONDITION 9 FEB 1985

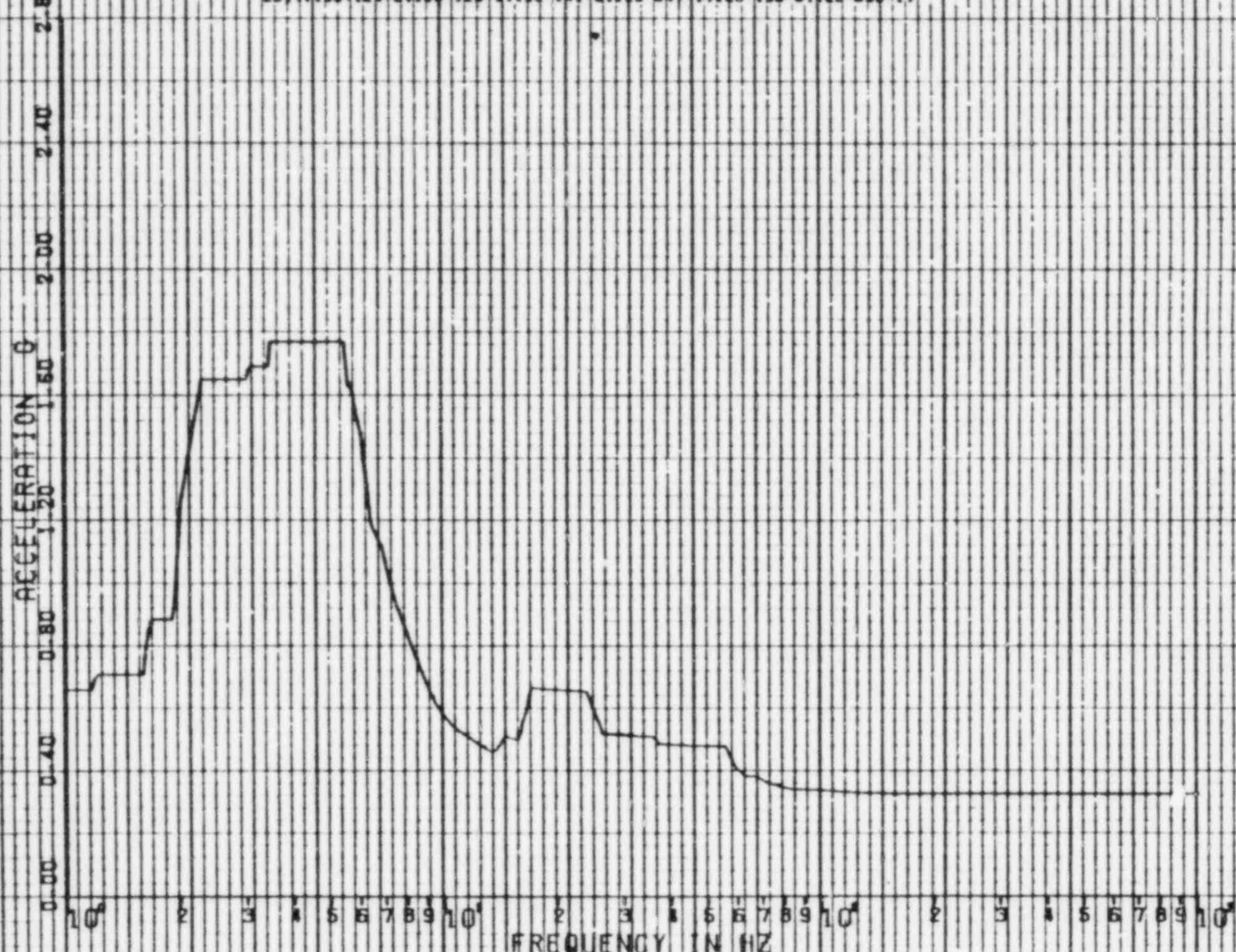
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1803 REV(1)

RRS OF ACC.-REACTOR BLDG..EL=60.000.MASS=28 SEIS MODEL- MAT

PEAK SPREAD -20%.+25% SEISMIC.+-15% HYDRODYNAMIC K.KAT

DISK CURVE SET NO.27 HOR DIRECTION DAMPING VALUE = 0.040

NOTE: [illegible]



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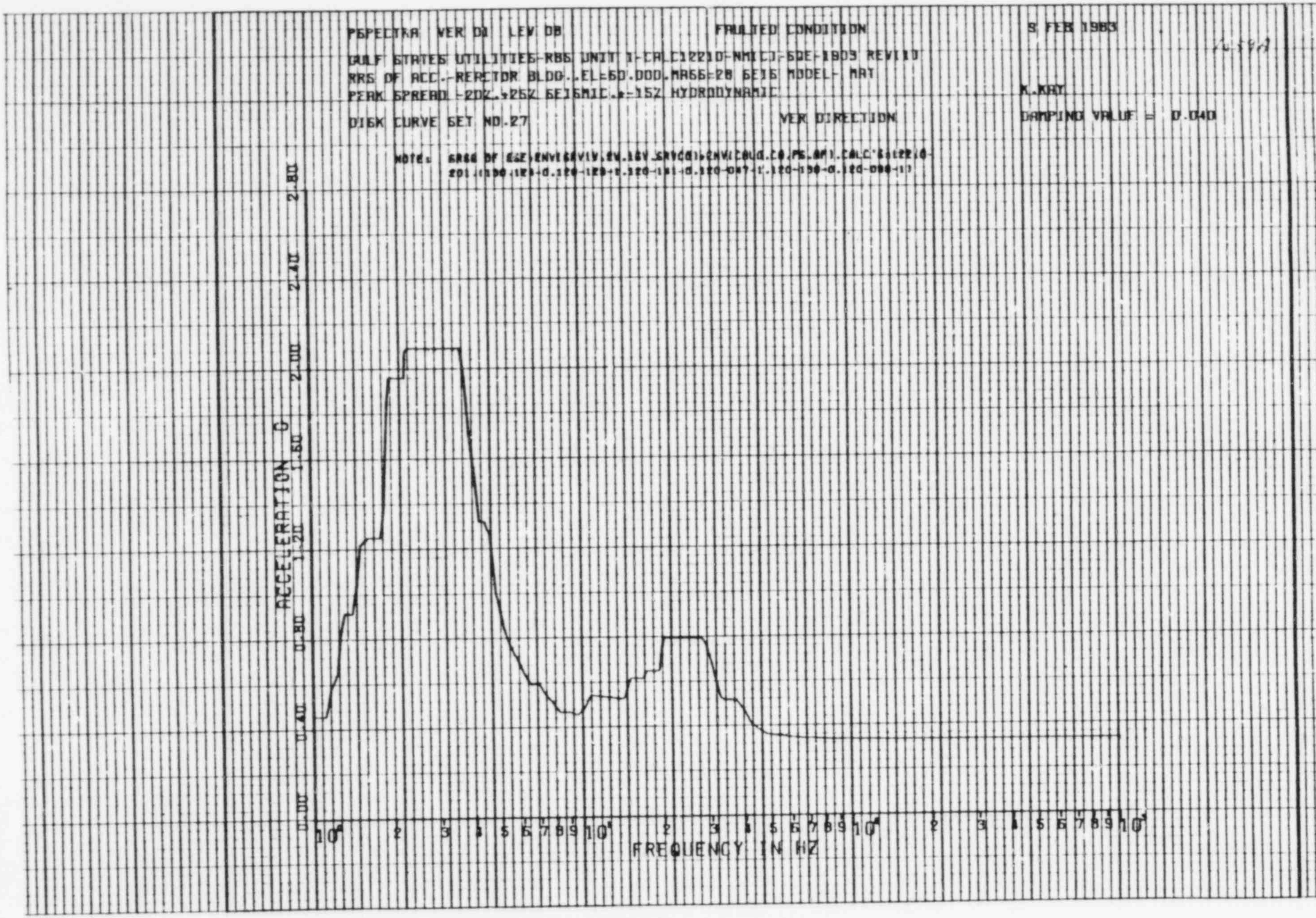

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
5 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SOE-1803 REV(1)
RRS OF ACC.-REACTOR BLDG..EL=60.000.MASS=28 SEIS MODEL- MAT
PEAK SPREAD -20%.+25% SEISMIC.+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.27
VER DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

PSPECTRA VER 01 LEV 08 UPSET CONDITION 9 FEB 1983

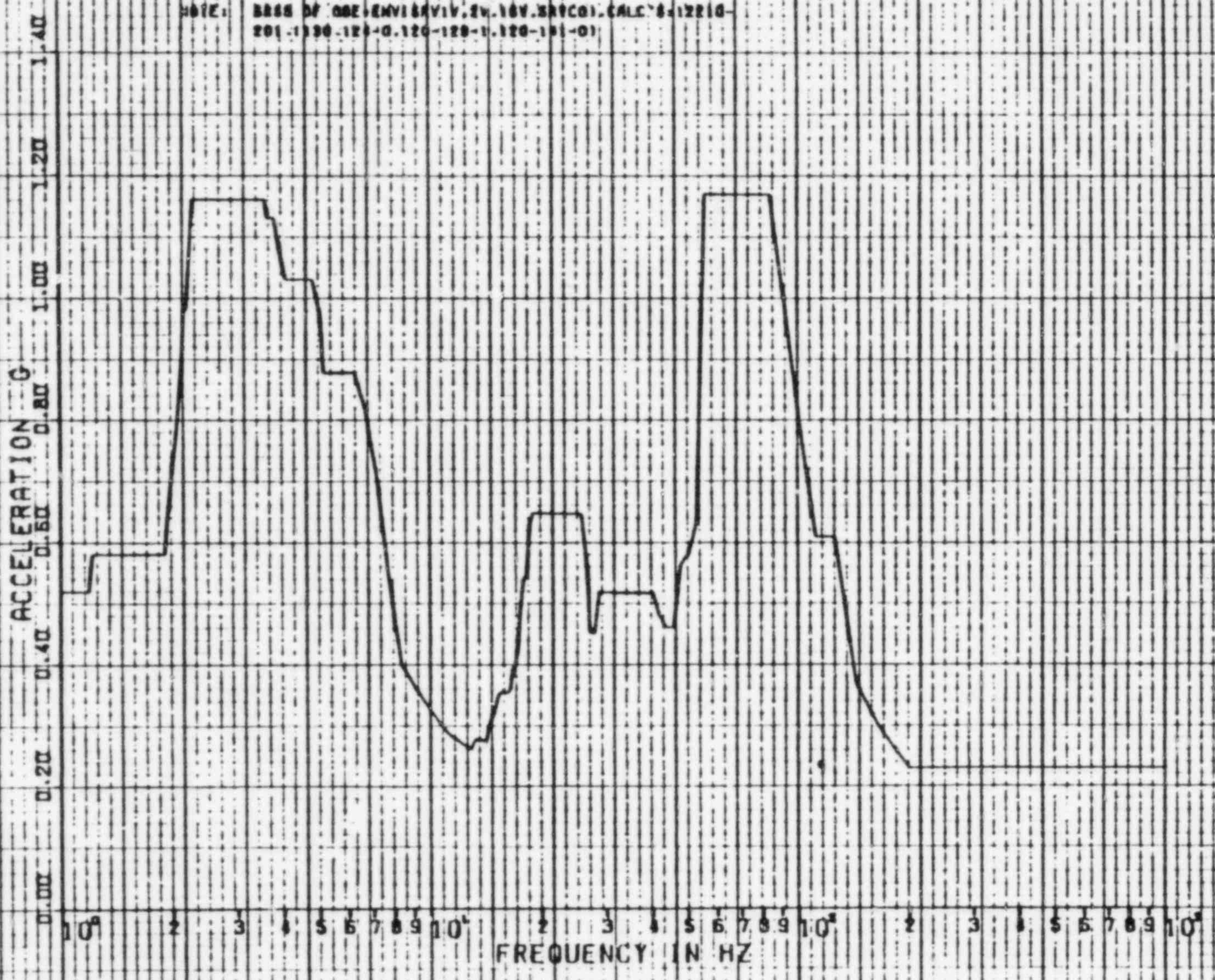
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SOE-1903 REV(1)

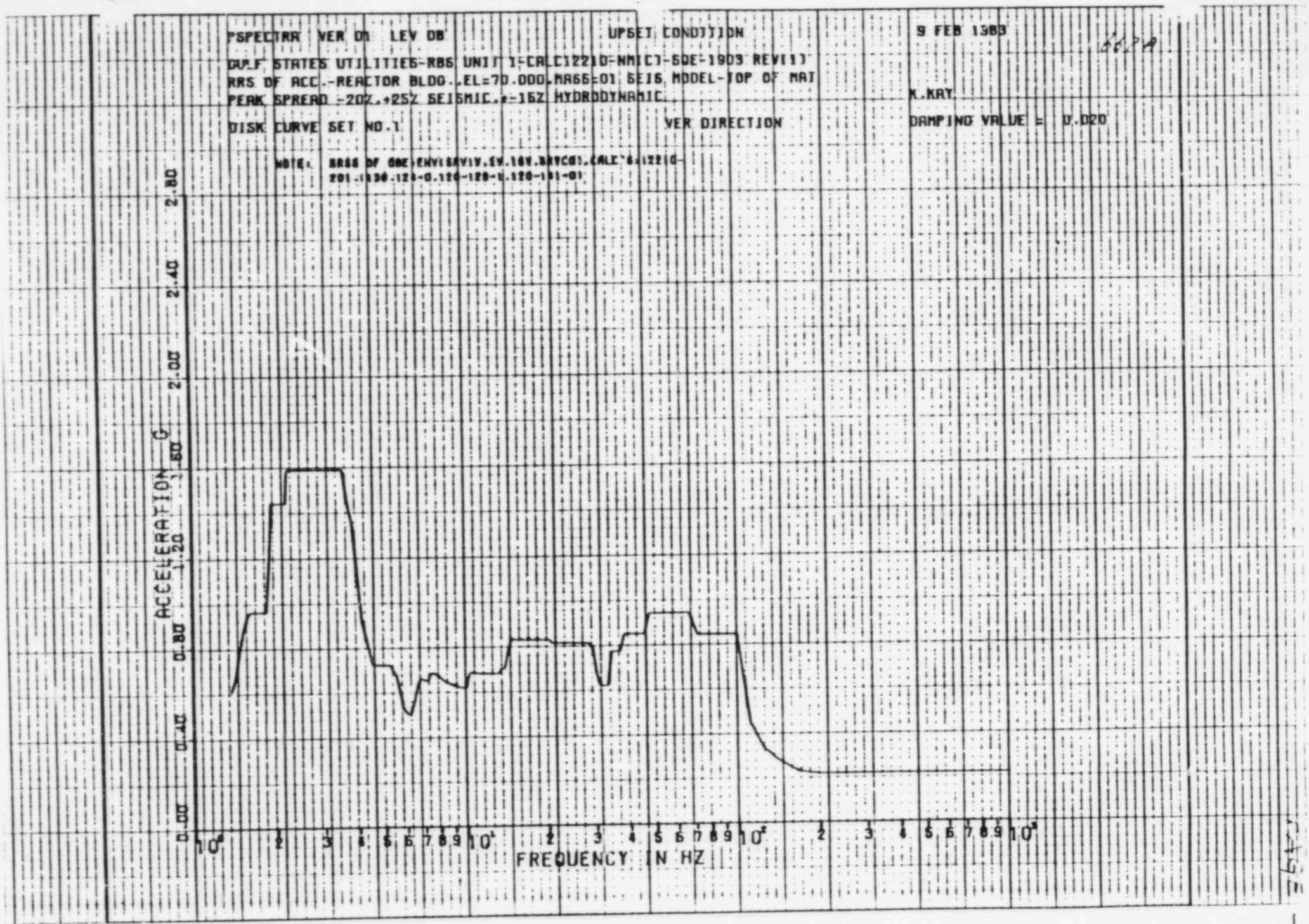
RRS OF ACC.-REACTOR BLDG. EL=70.000 MASS=01 SEIS MODEL-TOP OF MAT

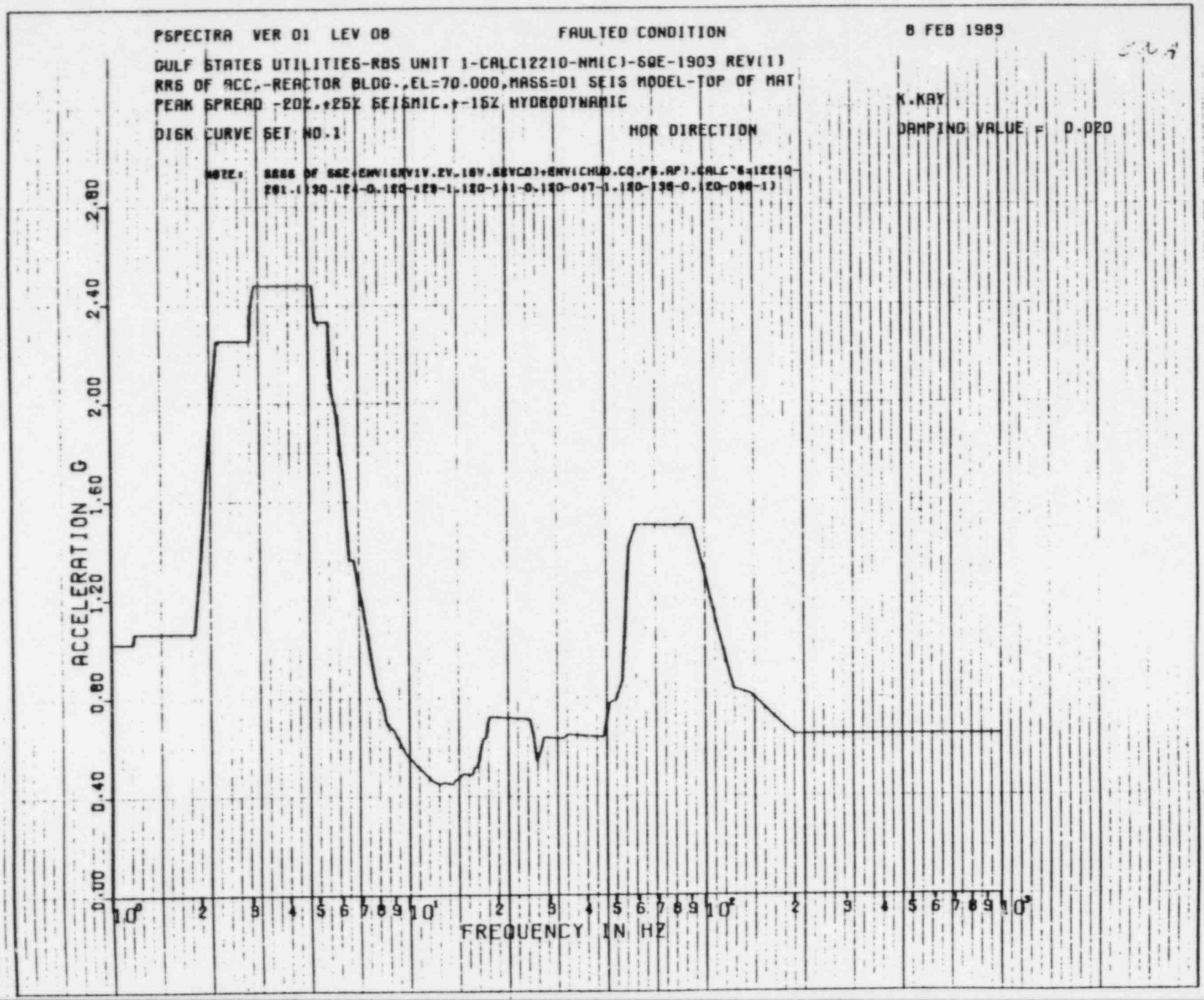
PEAK SPREAD -20%,+25% SEISMIC, +-15% HYDRODYNAMIC K.KAY

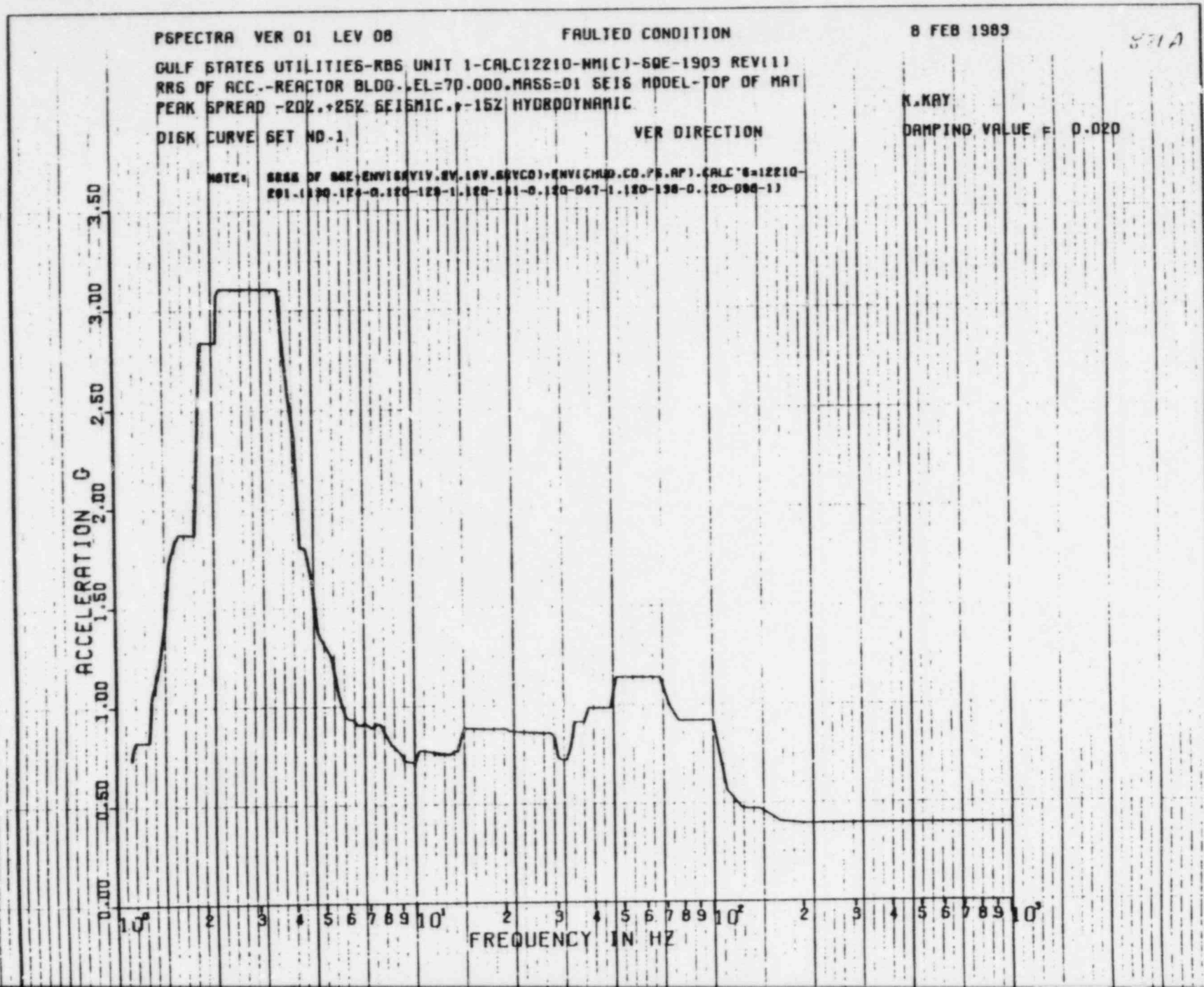
DISK CURVE SET NO.1 HOR DIRECTION DAMPING VALUE = 0.020

NOTE: BASE OF OBE+ENV(SRV(V,2V,10V,SRV(O),CALC 8.12210-
201.1130.12+-0.120-120-1.120-1(1-0)




PSPECTRR VER 01 LEV 08
UPSET CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC-SQE-1903 REV11
RRS OF ACC.-REACTOR BLDG.,EL=70.000,MAGS=01 SEIS MODEL-TOP OF MAT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.1
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: RRSS OF SQE-ENVISRVIV.EV.16V.BRYCG1.CALC'S-12210-201.0130.120-0.120-120-0.120-131-01
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
FREQUENCY IN HZ

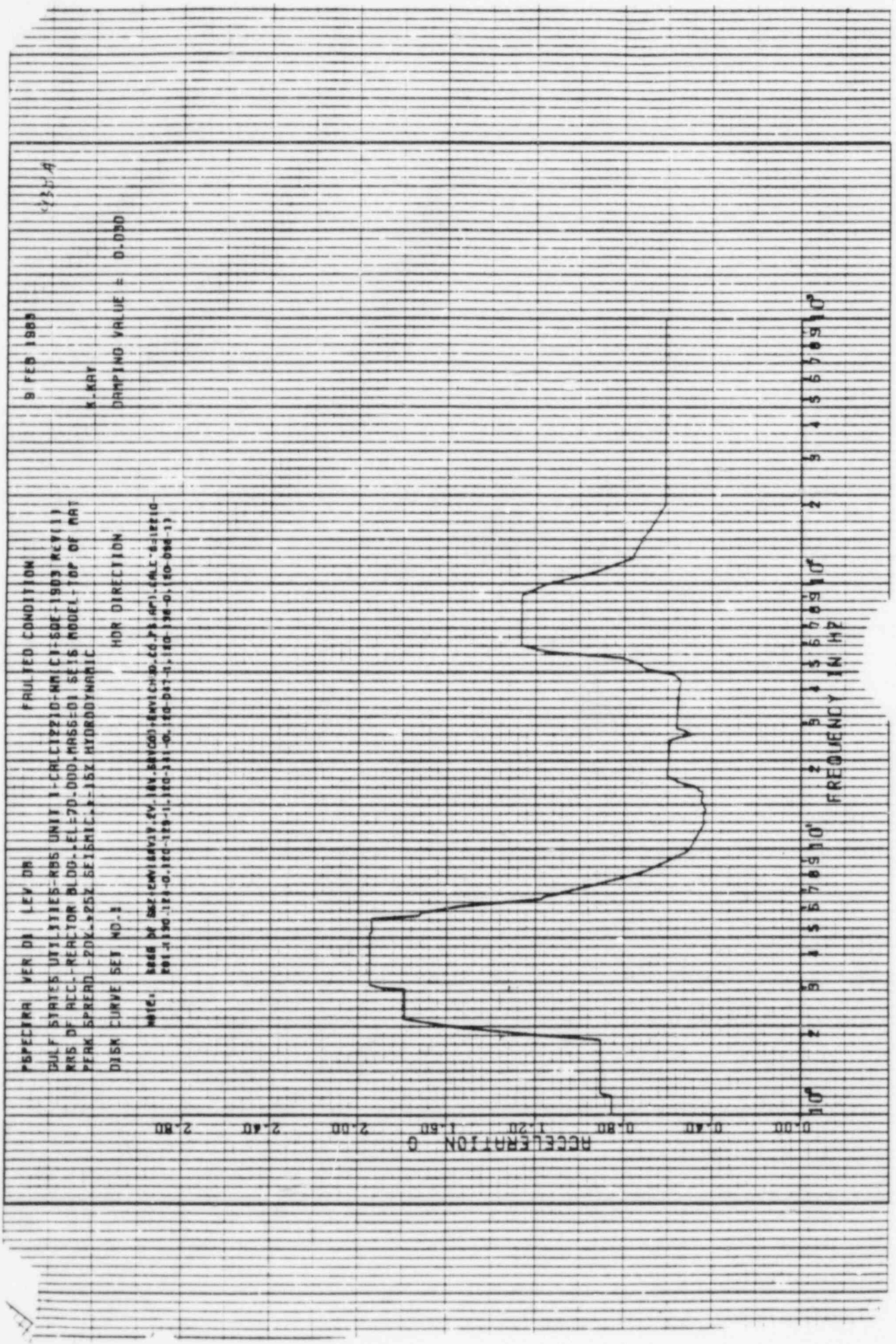

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=70.000,MASS=01 SEIS MODEL-TOP OF MAT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.1
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: SRSS OF SQE+ENV(SRV1V,2V,1BV,SRVCB)+ENV(CHUD,CQ,PB,AP),CALC'S=1221Q-201.(130,124-0.120-429-1.120-101-0.120-047-1.120-136-0.120-096-1)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
10^0
2
3
4
5
6
7
8
9
10^1
2
3
4
5
6
7
8
9
10^2
2
3
4
5
6
7
8
9
10^3
FREQUENCY IN HZ

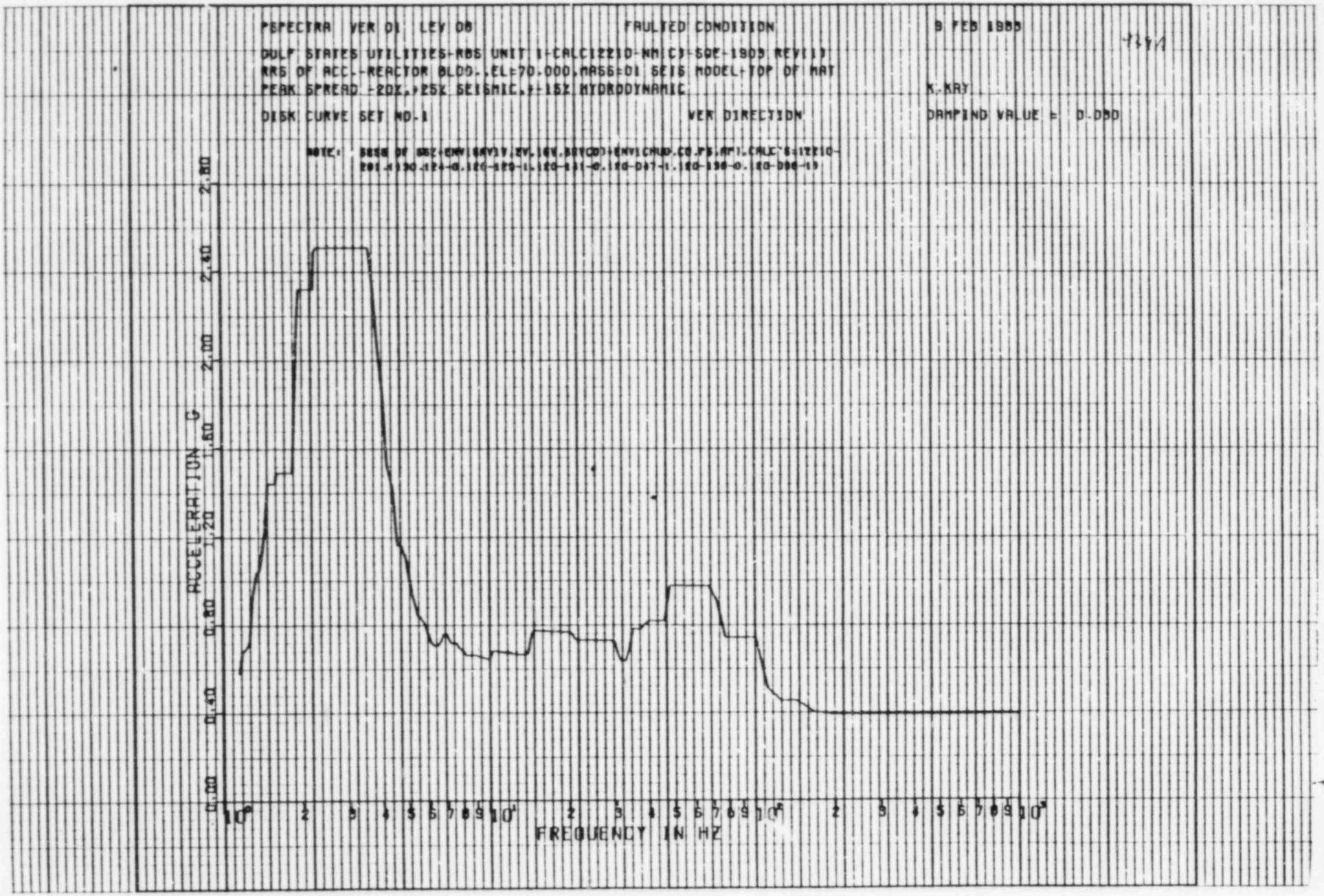

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=70.000,MASS=01 SEIS MODEL-TOP OF MAT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DAMPING VALUE = 0.020
DISK CURVE SET NO.1
VER DIRECTION
NOTE: SRSS OF SQE+ENV(SRV1V.SV.1SV.SRVCO)+ENV(CMUD.CO.PS.AP).CALC'S=12210-
291.(120.126-0.120-129-1.120-141-0.120-047-1.120-138-0.120-098-1)
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ
10^0
2
3
4
5
6
7
8
9
10^1
2
3
4
5
6
7
8
9
10^2
2
3
4
5
6
7
8
9
10^3

371A

REF 36

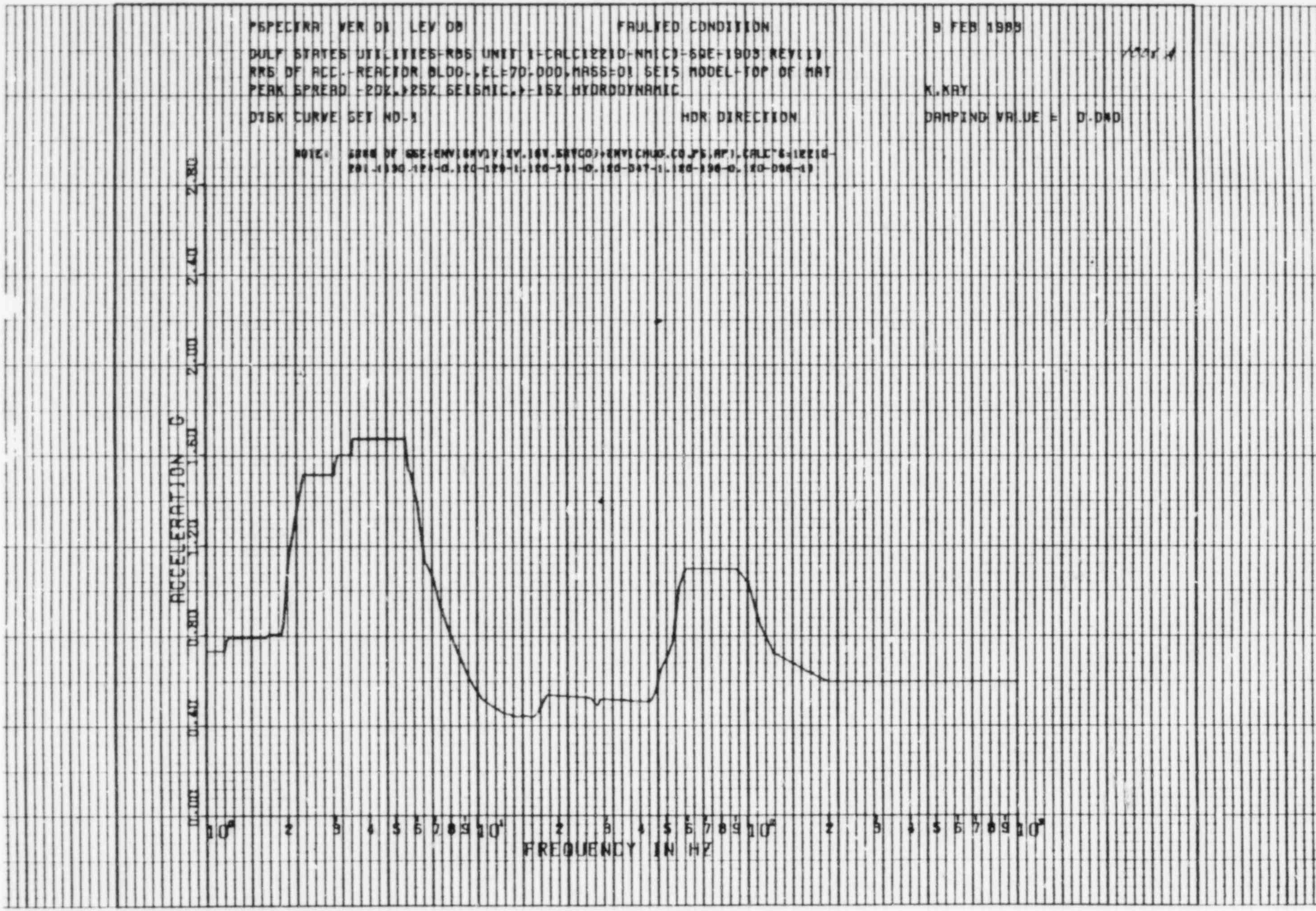
REF 36


PEPECIRA WER DI LEV DR FAULTED CONDITION
GULF STATES UTILITIES-RBS UNIT 1-CRC12210-NMIC1-SGE-1903 REV(1)
RBS DF REC-REACTOR BLDG-EL=70-000,RB66=01 SEIS MODEL-TOP OF MAT
PEAK SPREAD=+20%,+25% SEISMIC=+-15% HYDRODYNAMIC
DISK CURVE SET NO=1
8 FEB 1989
K-KAY
DAMPING VALUE = 0.050
HOR DIRECTION
ACCELERATION G
FREQUENCY IN HZ
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1988
DULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1003 REV(1)
RBS OF ACC.-REACTOR BLDG., EL=70.000, MASS=01 SEIS MODEL=TOP OF MAT
PEAK SPREAD =20%, =25% SEISMIC, +-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO-1
VER DIRECTION
DAMPING VALUE = 0.050
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

REF 36

REF 36


PSPECTRA VER 01 LEV 00
FAULTED CONDITION
9 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=70.000,MASS=01 SEIS MODEL-TOP OF MAT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO-1
HOR DIRECTION
DAMPING VALUE = 0.040
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

REF 36

PSPECTRA VER 01 LEV 08 FAULTED CONDITION 9 FEB 1988

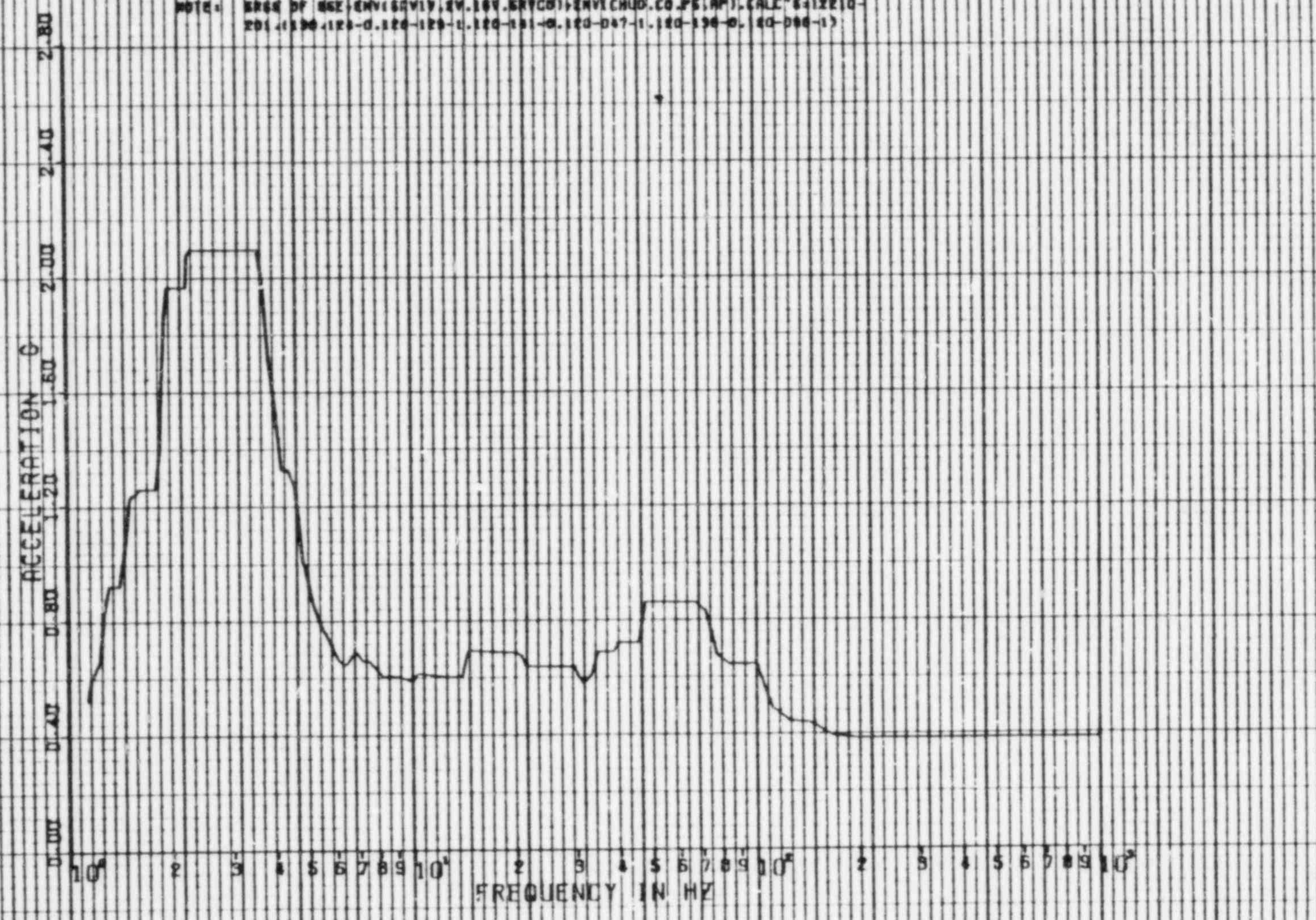
GULF STATES UTILITIES-RBS UNIT 1 CALC12210-NM(C)-SQE-1903 REV(1)

RRS OF ACC.-REACTOR BLDG.-EL=70.000,MASS=01 SEIS MODEL-TOP OF MAT

PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC

K.KAY

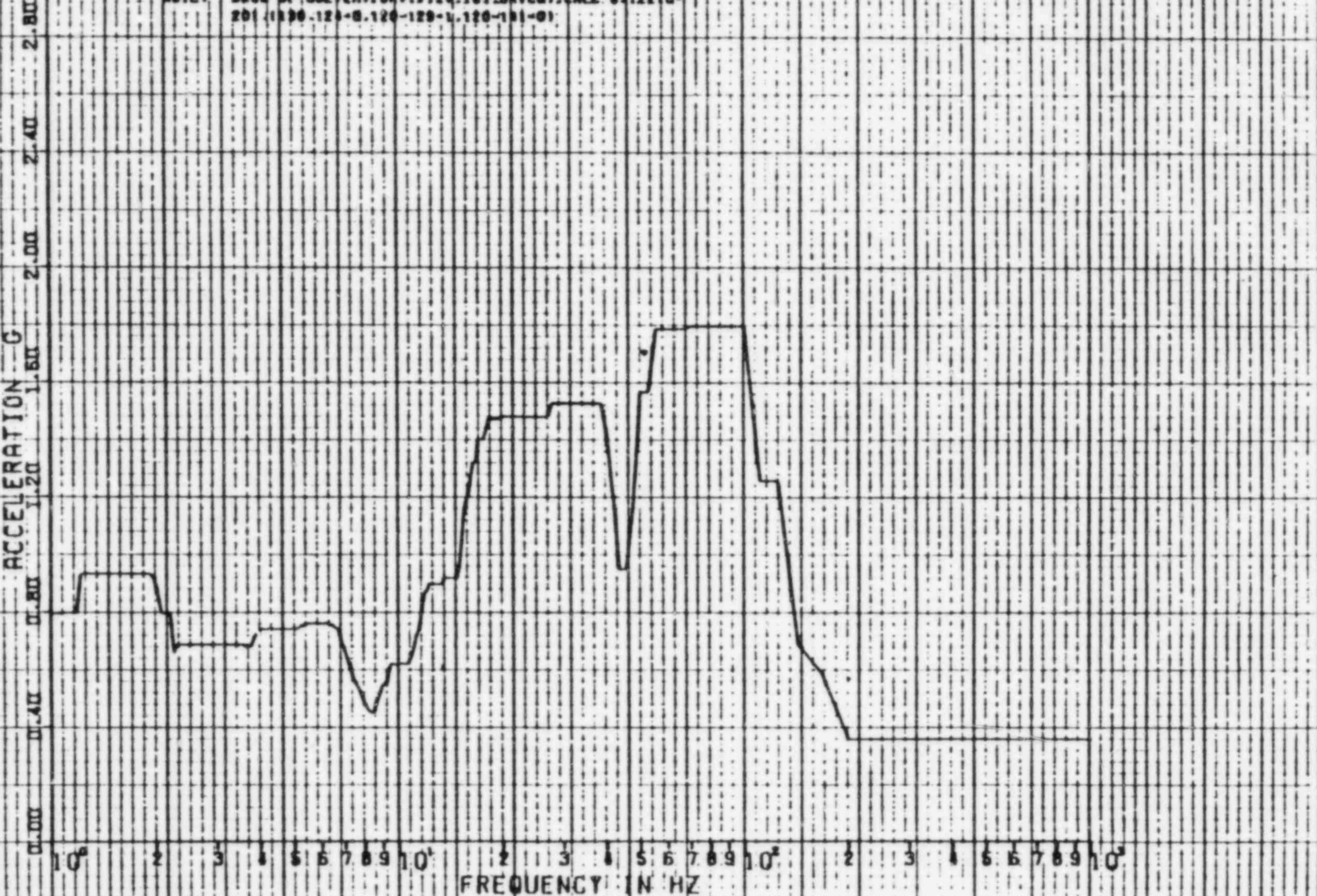
DISK CURVE SET NO.1 VER DIRECTION DAMPING VALUE = 0.040



PSPECTRA . VER 01 LEV 08 UPSET CONDITION 8 FEB 1983

GULF STATES UTILITIES-RBS UNIT 1-CALC(12210-NM(C)-SQE-1803 REV(1))
RRS OF ACC.-REACTOR BLDG. EL=112.67 MASS=03 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC K.KAY
DISK CURVE SET NO.2 HOR DIRECTION DAMPING VALUE = 0.020

NOTE: BASE OF OBE-ENVISAVIV.2V.16Y.3RYC0).CALC'S:12210-201(1190.124-8.120-129-4.120-191-0)



REF 37

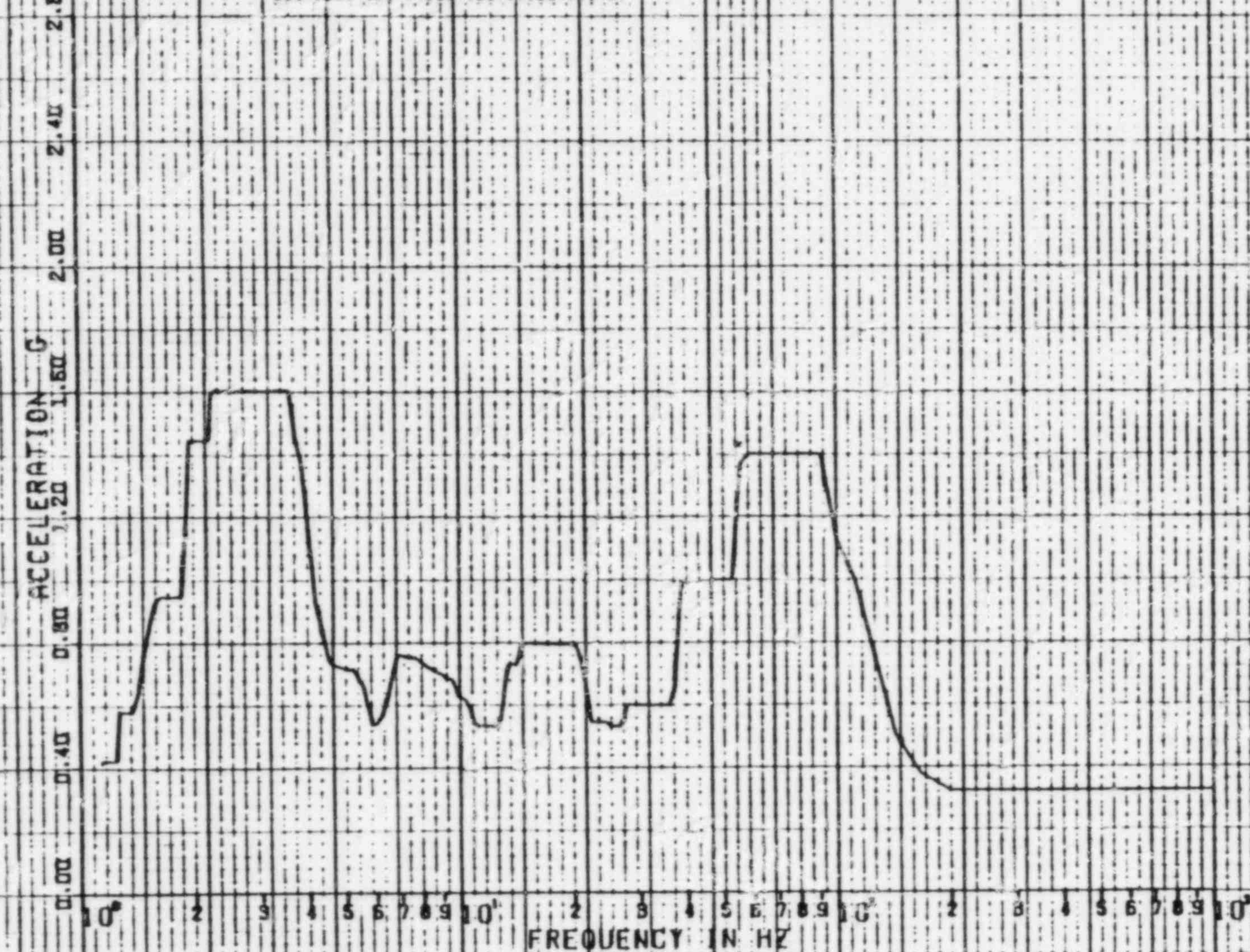
PSPECTRA VER 01 LEV 08 UPSET CONDITION 9 FEB 1983

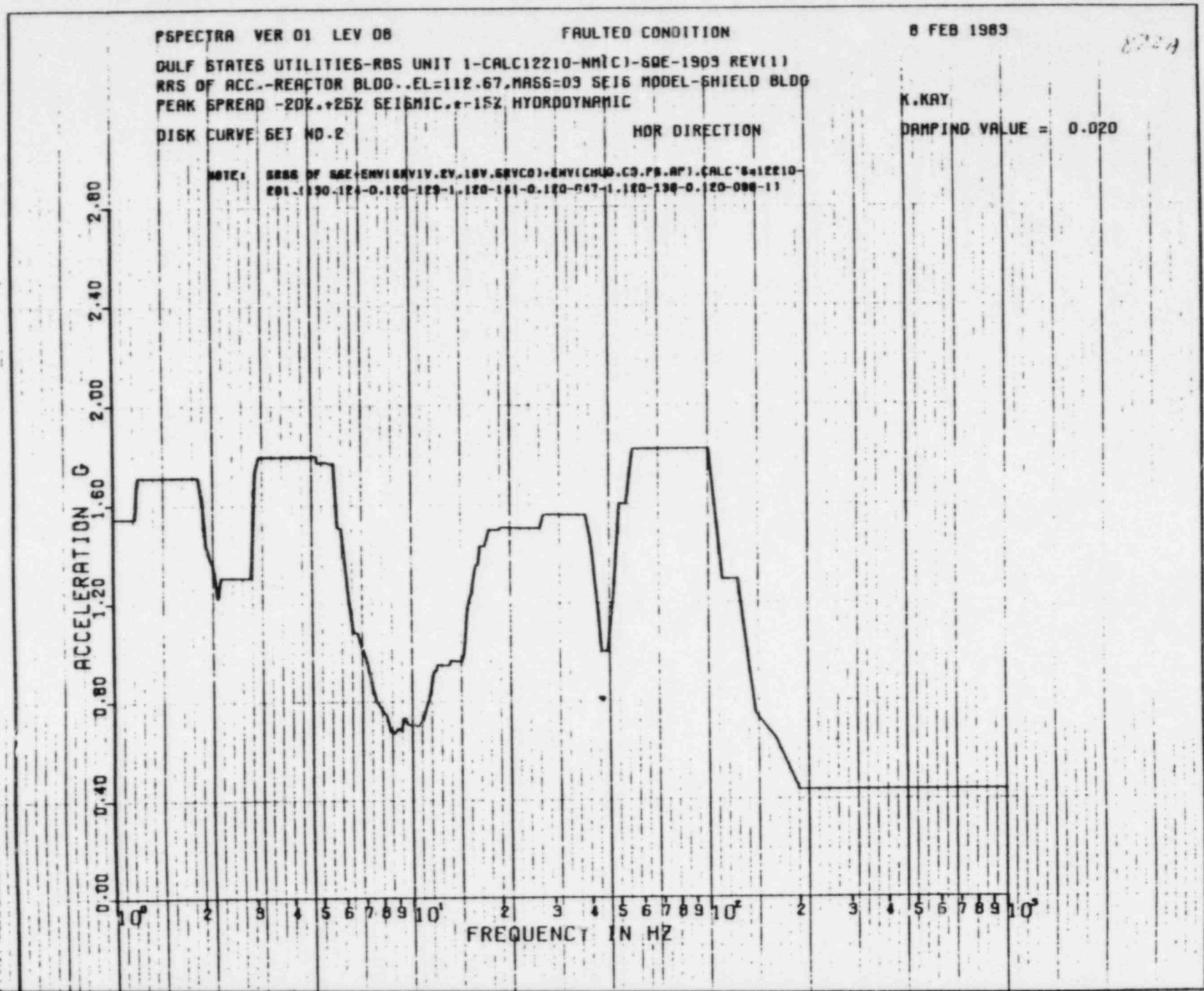
66.99

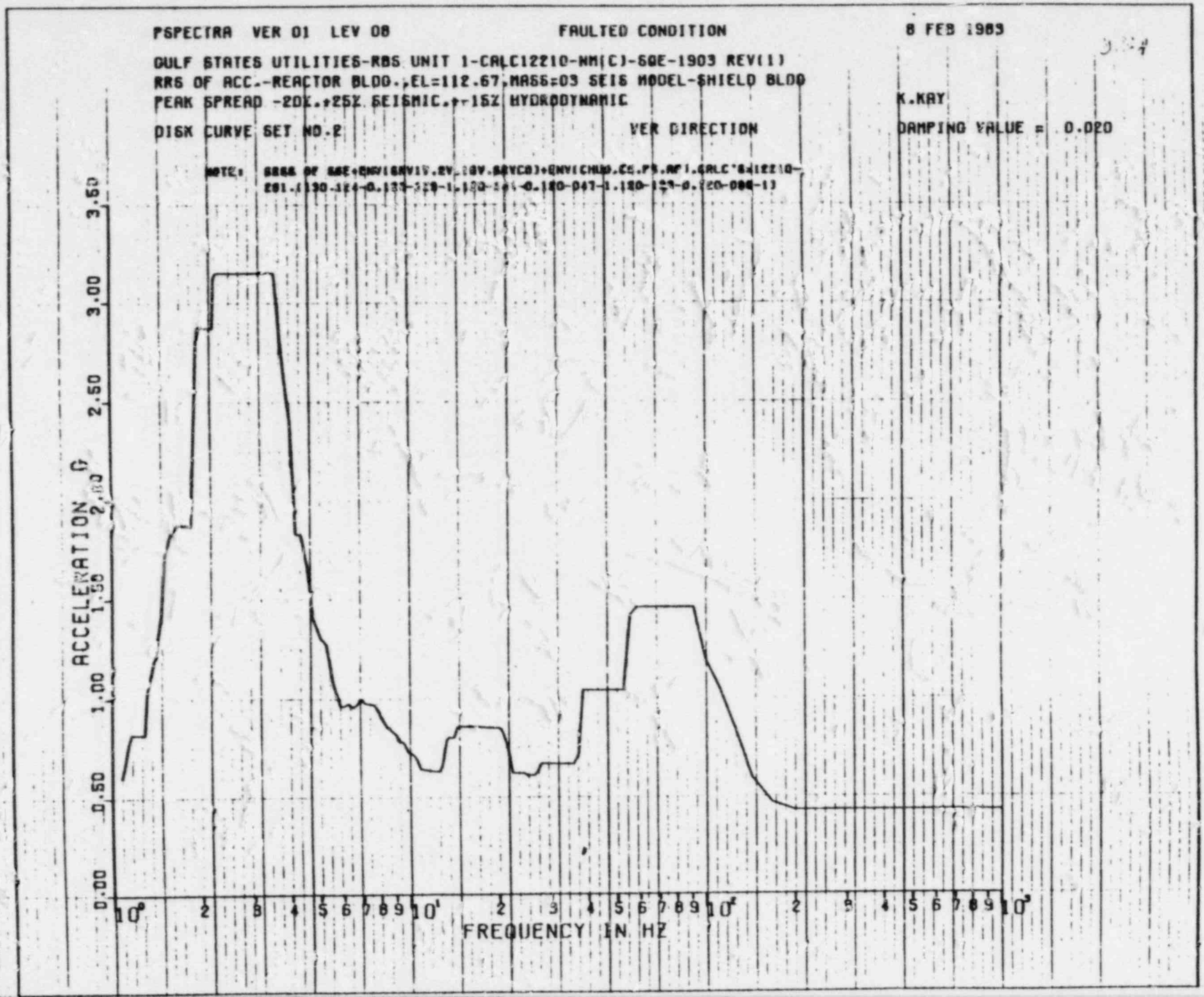
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SDE-1909 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=112.67,MASS=03 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC K.KAY

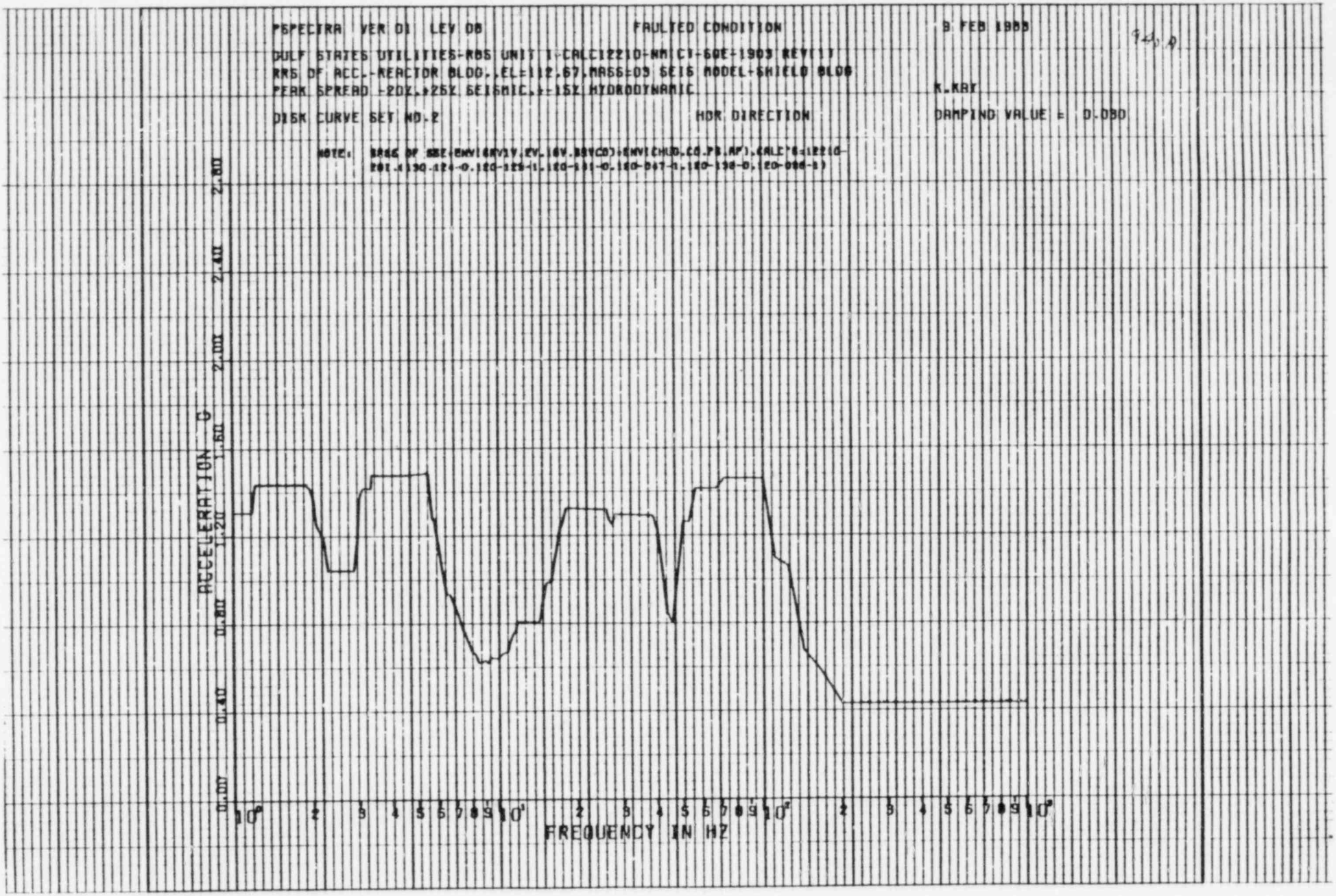
DISK CURVE SET NO.2 VER DIRECTION DAMPING VALUE = 0.020

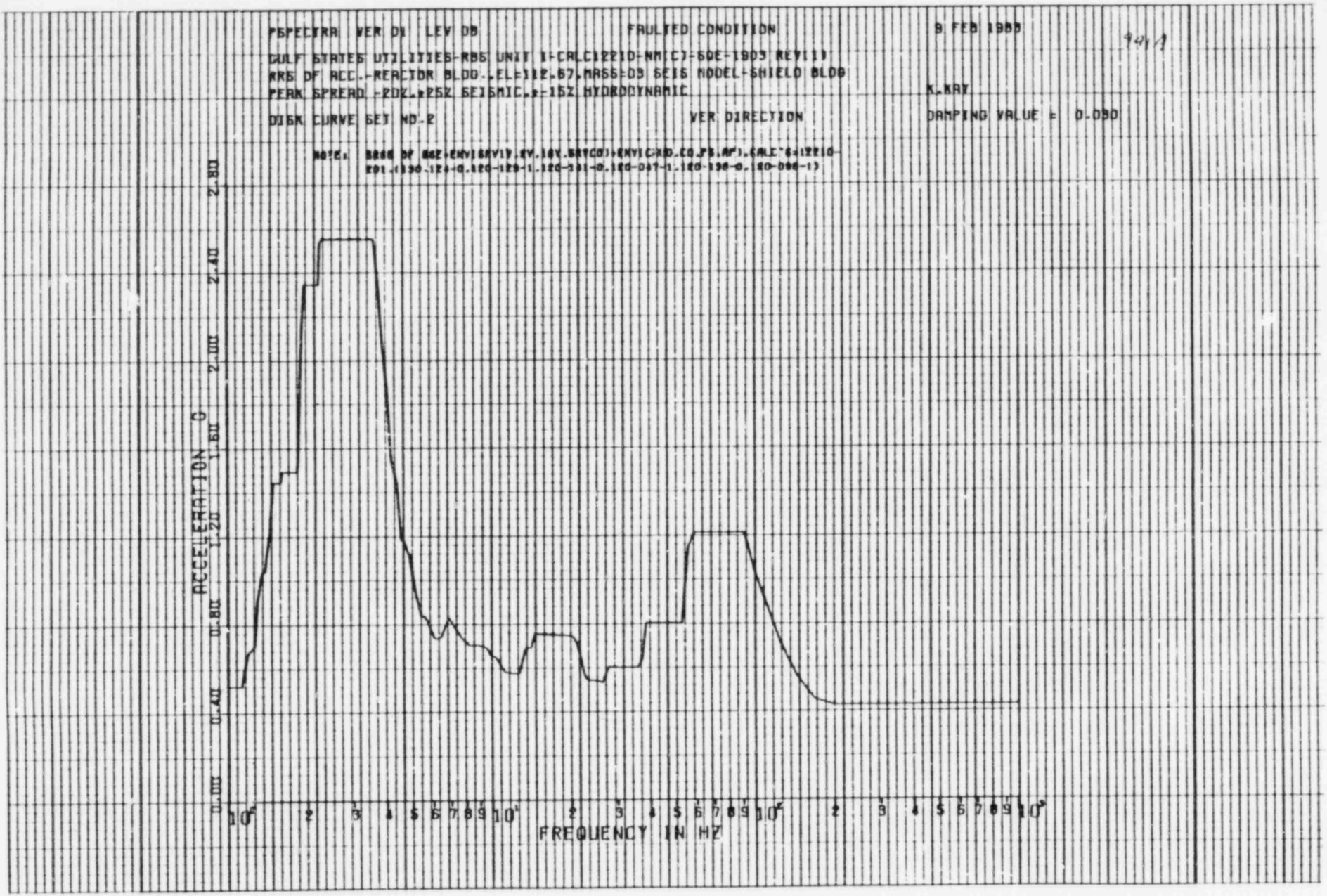
NOTE: BASE OF OBE+ENV(SRV(1V,2V,)6V,B2VC6),CALC'S:12210-
201.1330.12)-0,120-129-1,223-131-0)




PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG..EL=112.67,MASS=03 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.2
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: SRSS OF SQE+ENV(SRV1Y.EV,.18V.SRVC0)+ENV(CHUO.C3.PS.AP).CALC'S=1EE10-
E01.(130.124-0.120-129-1.120-101-0.120-047-1.120-130-0.120-090-1)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
10⁰
2
3
4
5
6
7
8
9
10¹
2
3
4
5
6
7
8
9
10²
2
3
4
5
6
7
8
9
10³
FREQUENCY IN HZ

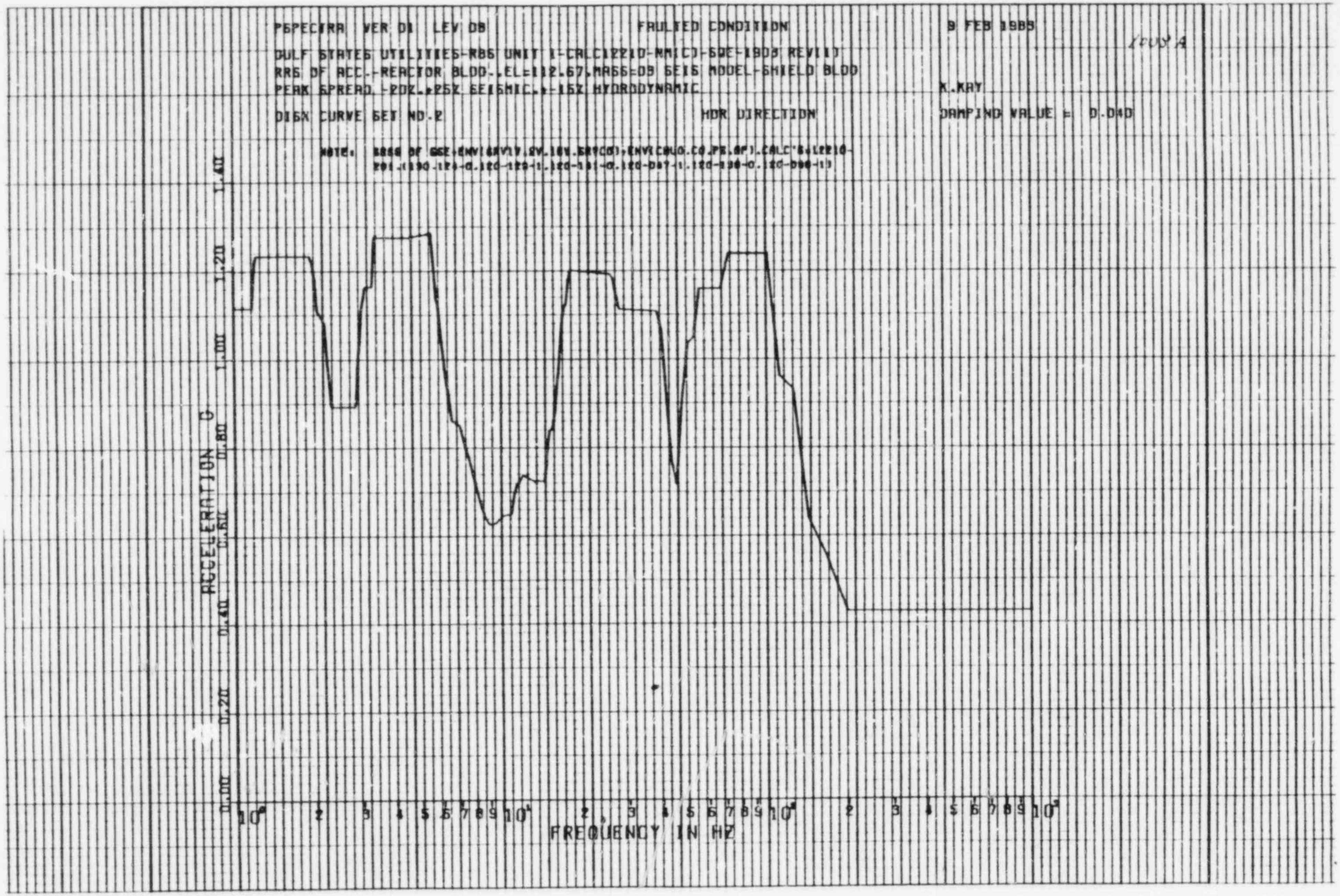

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=112.67,MASS=03 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.2
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: SRSS OF SSE+ENV(SRV15.2V,18V.SRVCB)+ENV(CHLD.CS.PS.AF).CALC'S(12210-
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ

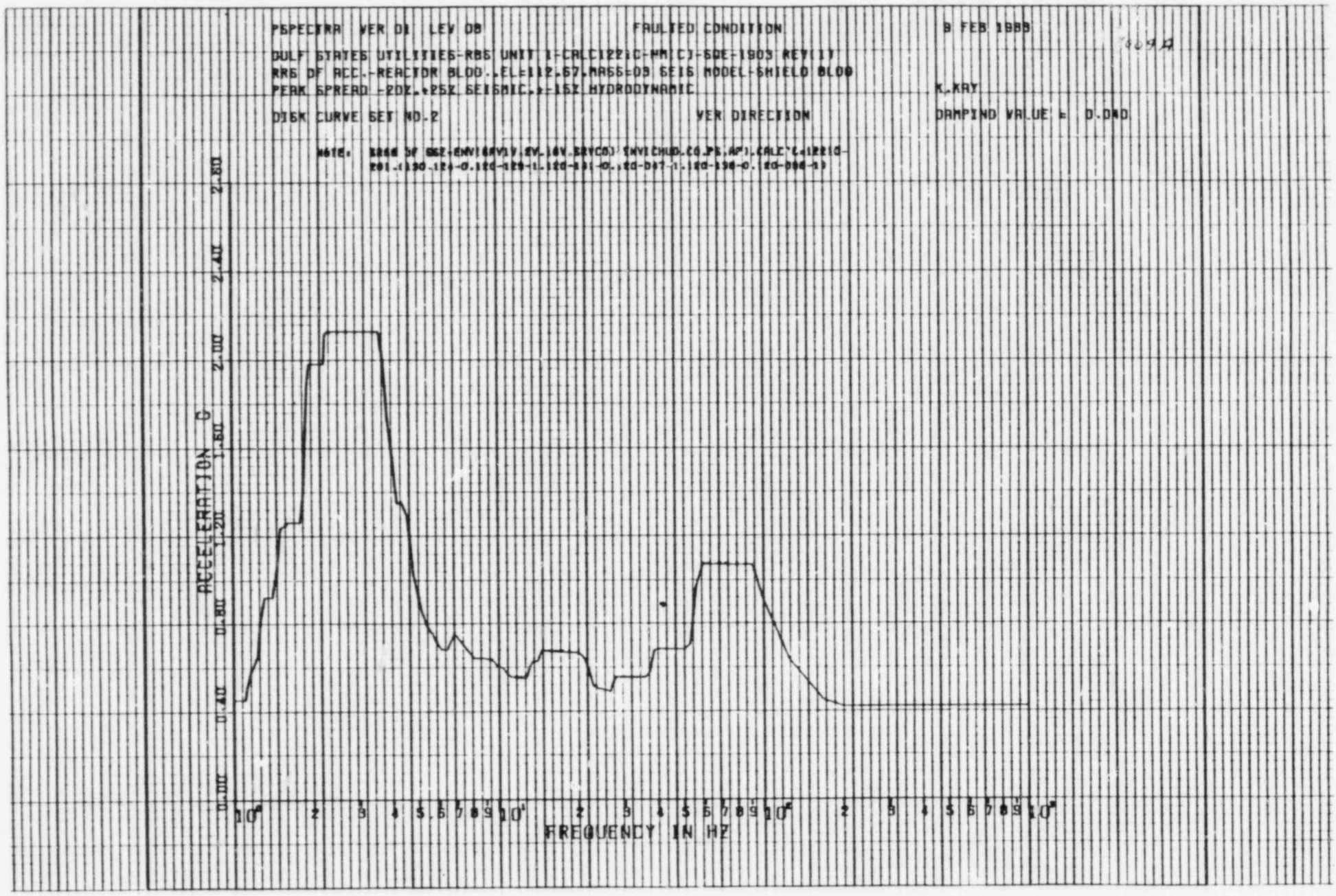

SPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM-C1-60E-1903 REV[1]
RBS OF ACC.-REACTOR BLDG.,EL=112.67,MASS=03 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.2
HOR DIRECTION
DAMPING VALUE = 0.050
NOTE: SPEC OF SSE+ENV(SRV1Y,EV,16V,B3YCO)+ENV(CHLD,CO,P3,AF),CALC'6=12210-201.1190.124-0.120-125-1.120-131-0.120-047-1.120-198-0,120-086-1)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

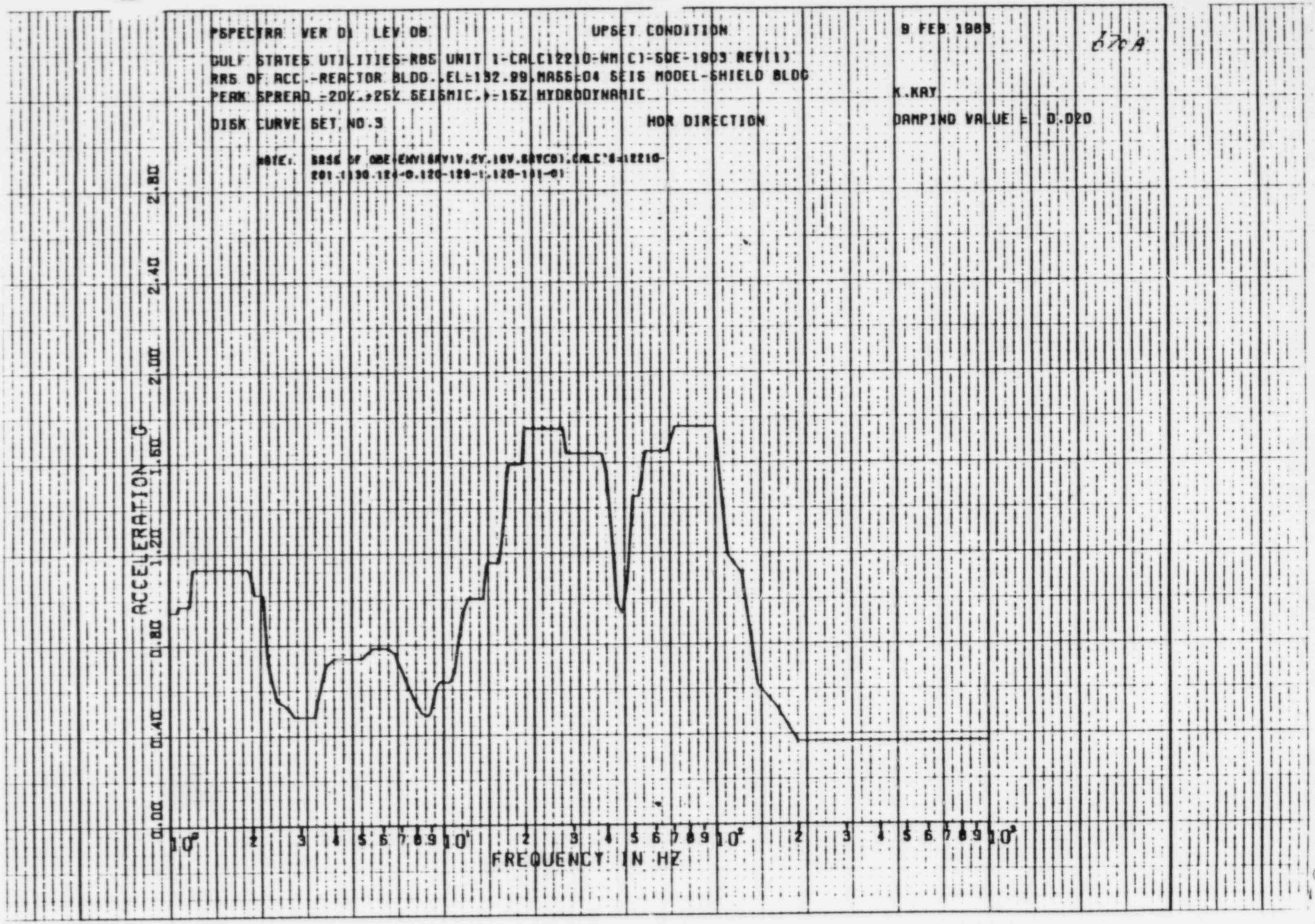

SPECTRA VER D1 LEV DB FAULTED CONDITION
8 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-60E-1003 REV(1)
K.RAY
DAMPING VALUE = 0.050
VER DIRECTION
ACCELERATION G
FREQUENCY IN HZ

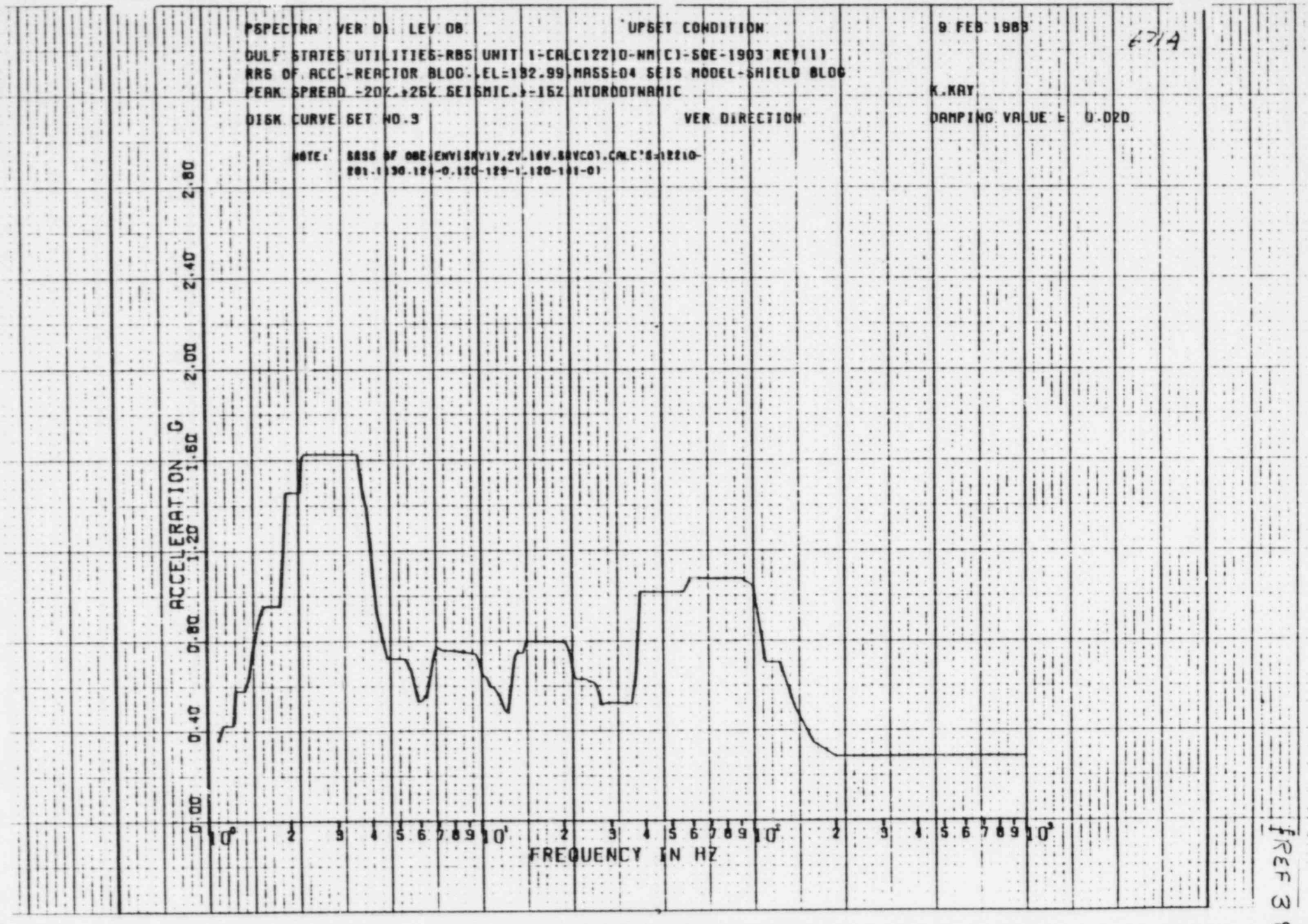
REF 37

REF 37

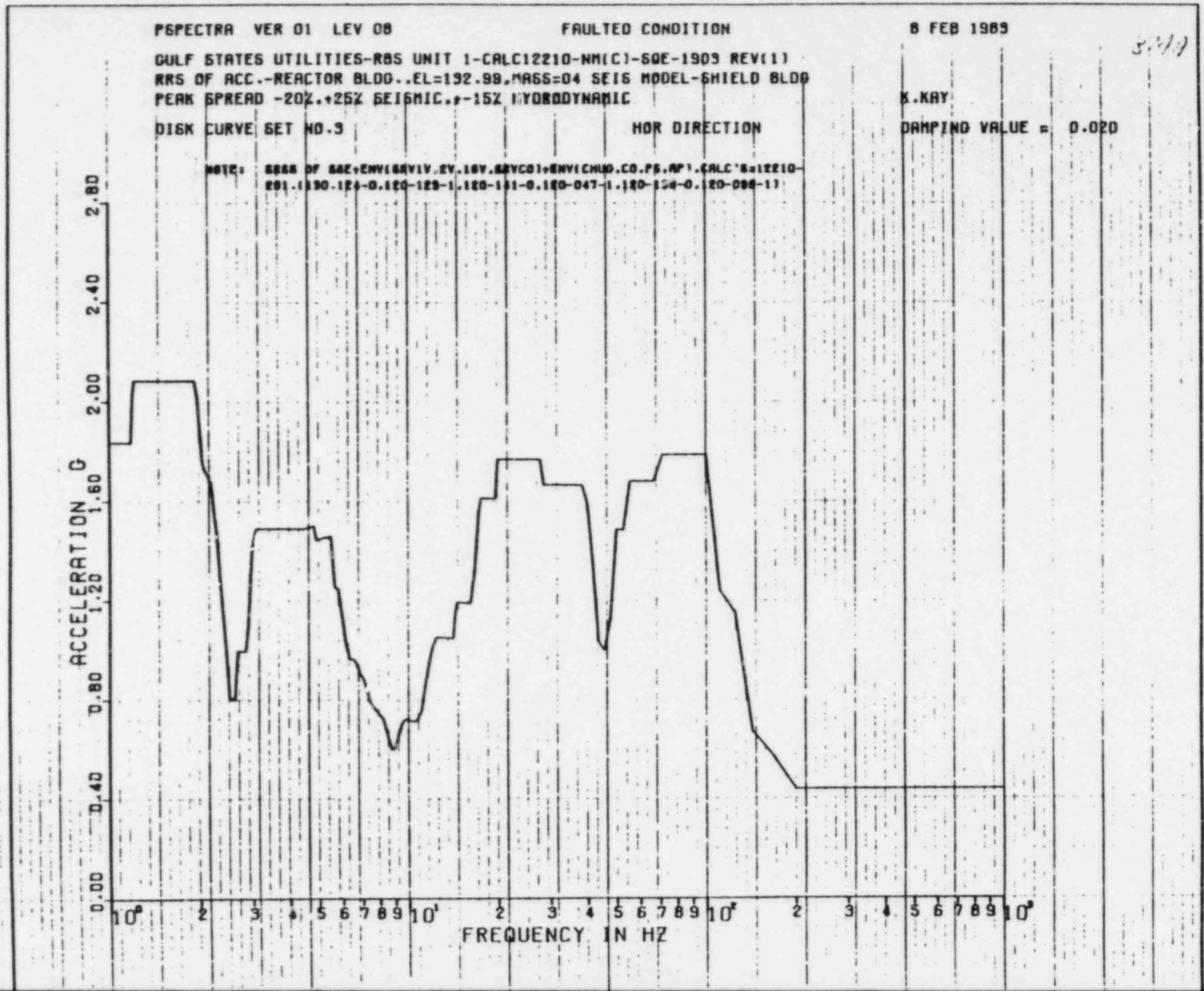

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SDE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=112.67,MASS=09 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.2
HOR DIRECTION
DAMPING VALUE = 0.040
NOTE:
ACCELERATION G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
FREQUENCY IN HZ

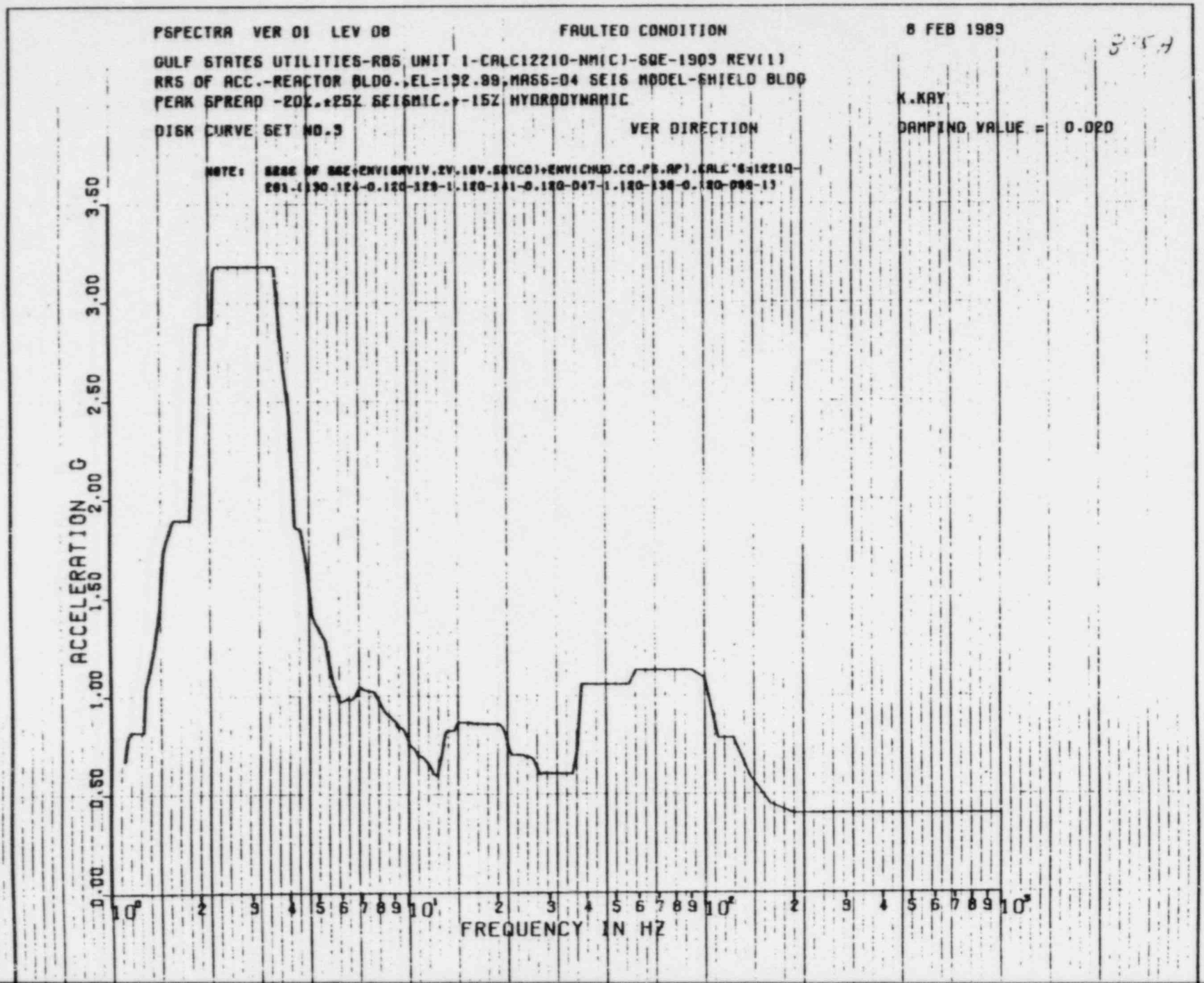

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC122;C-MMIC)-SDE-1903 REV(1)
RBS OF ACC.-REACTOR BLDG.,EL=112.67,MASS=03 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.2
VER DIRECTION
DAMPING VALUE = 0.040
NOTE: USED OF GSZ+ENV(ENV19.SV.10V.S2YCO) ENVICHLD.CO.PS.AF).CALC'C+12210-
201.(130.12+-0.12C-12E-1.12C-131-0.,EC-D47-1.12C-19E-0.(EC-09E-1)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

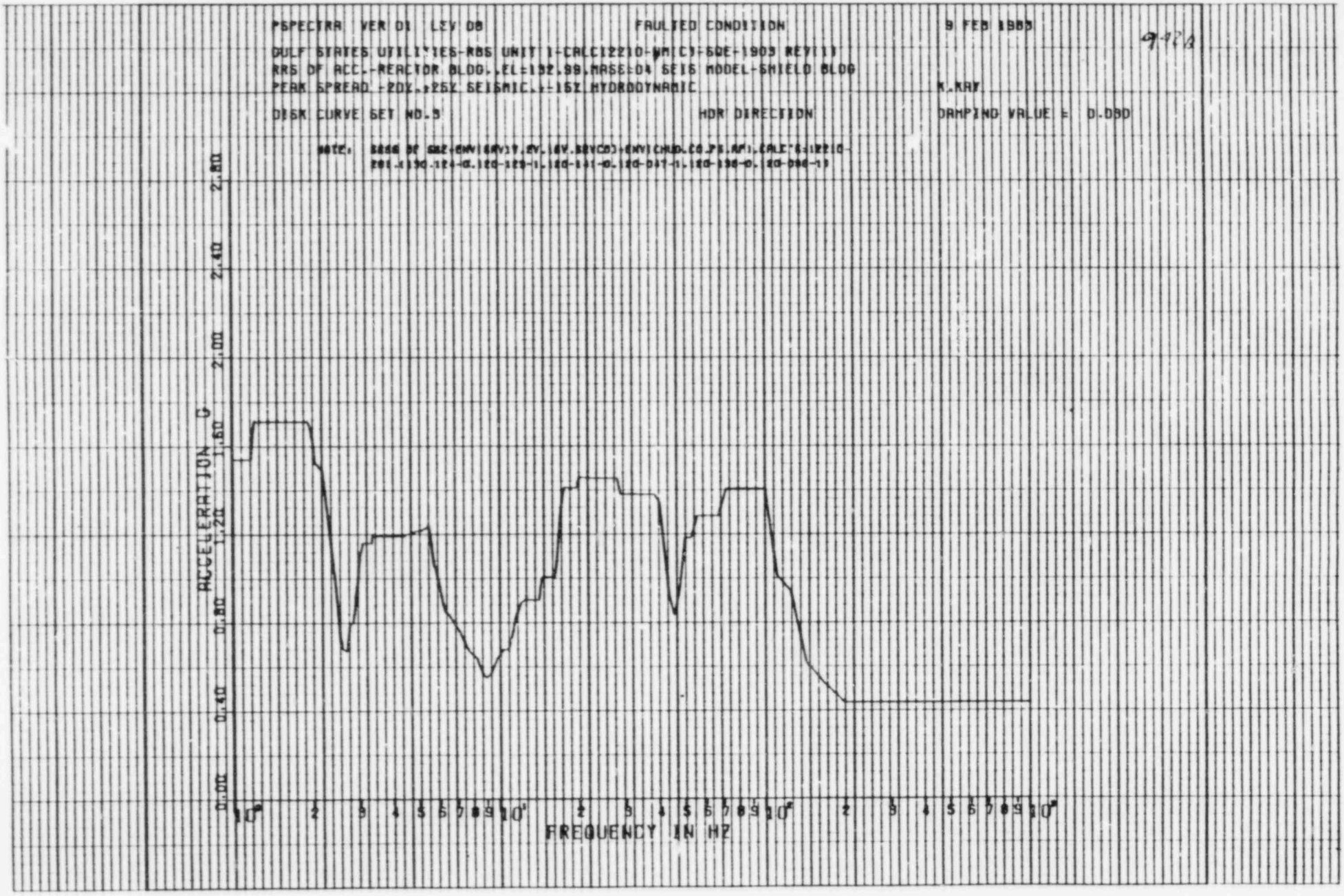

PSPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC(12210-NM(C)-SDE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=132.99,MASS=04 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.3
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

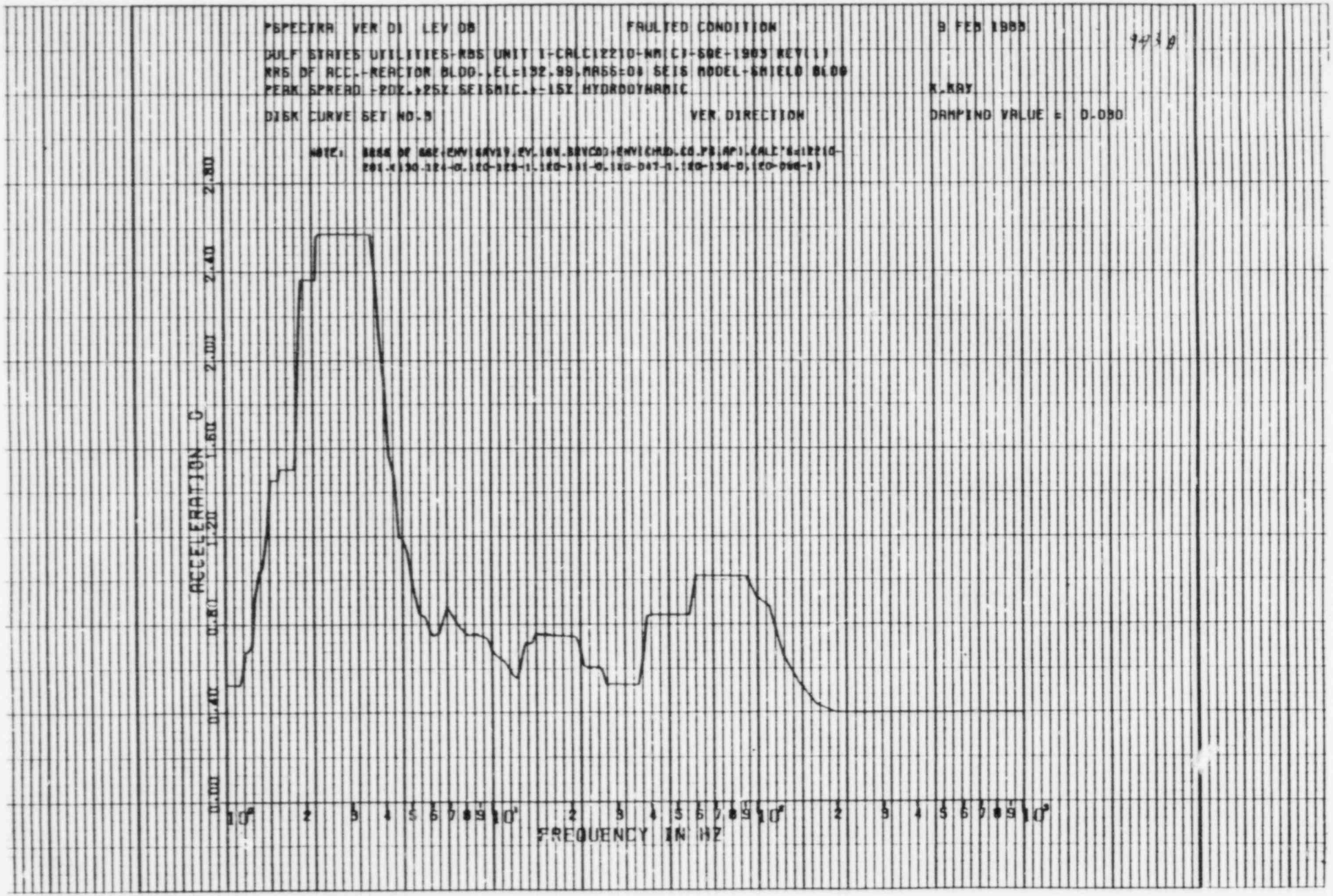

PSPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1983
671A
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=132.99 MASS=04 SEIS MODEL-SHIELD BLDG
PEAK SPREAD =20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.3
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: BASE OF OBE(ENV(SRV1V,2V,1GV,SRVC0),CALC'S=12210-201.(130.124-0.120-129-1.120-101-0)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
10^0
2
3
4
5
6
7
8
9
10^1
2
3
4
5
6
7
8
9
10^2
2
3
4
5
6
7
8
9
10^3
FREQUENCY IN HZ

FREF 3


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RMS OF ACC.-REACTOR BLDG..EL=132.98,MASS=04 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
S.KAY
DISK CURVE SET NO.3
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: SRSS OF SQE+ENV(SRV1V,2V,3V,SRVC0)+ENV(CHUG,CO,PS,AP),CALC'S=12210-
2.80
2.40
2.00
1.60
1.20
0.80
0.40
0.00
ACCELERATION G
FREQUENCY IN HZ


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1989
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=152.89,MASS=04 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.3
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: SRSS OF SQE+ENV(SRV1V.2V.1BV.SRVCO)+ENV(CHUG.CO.PB.AP).CALC'S=12210-
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=132.99,PHASE=04 SEIS MODEL-SHIELD BLDG
PEAK SPREAD =20%,=25% SEISMIC,=15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.3
HOR DIRECTION
DAMPING VALUE = 0.080
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ


SPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-GDE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=132.99,AZ55=08 SEIS MODEL-SHIELD BLDG
PEAK SPREAD =20%,+25% SEISMIC,+-15% HYDRODYNAMIC
R.KAY
DISK CURVE SET NO.5
VER DIRECTION
DAMPING VALUE = 0.030
NOTE: SRSS OF SQZ+ENV(SRV19,2V,18X,38YCD)+ENV(CMBD,CD,P8,AP),CALC'G=12210-201.X(90.124+0.120-329-1.120-331-0.120-047-1.120-130-0,120-098-1)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

PSPECTRA VER 01 LEV 08 FAULTED CONDITION 9 FEB 1988

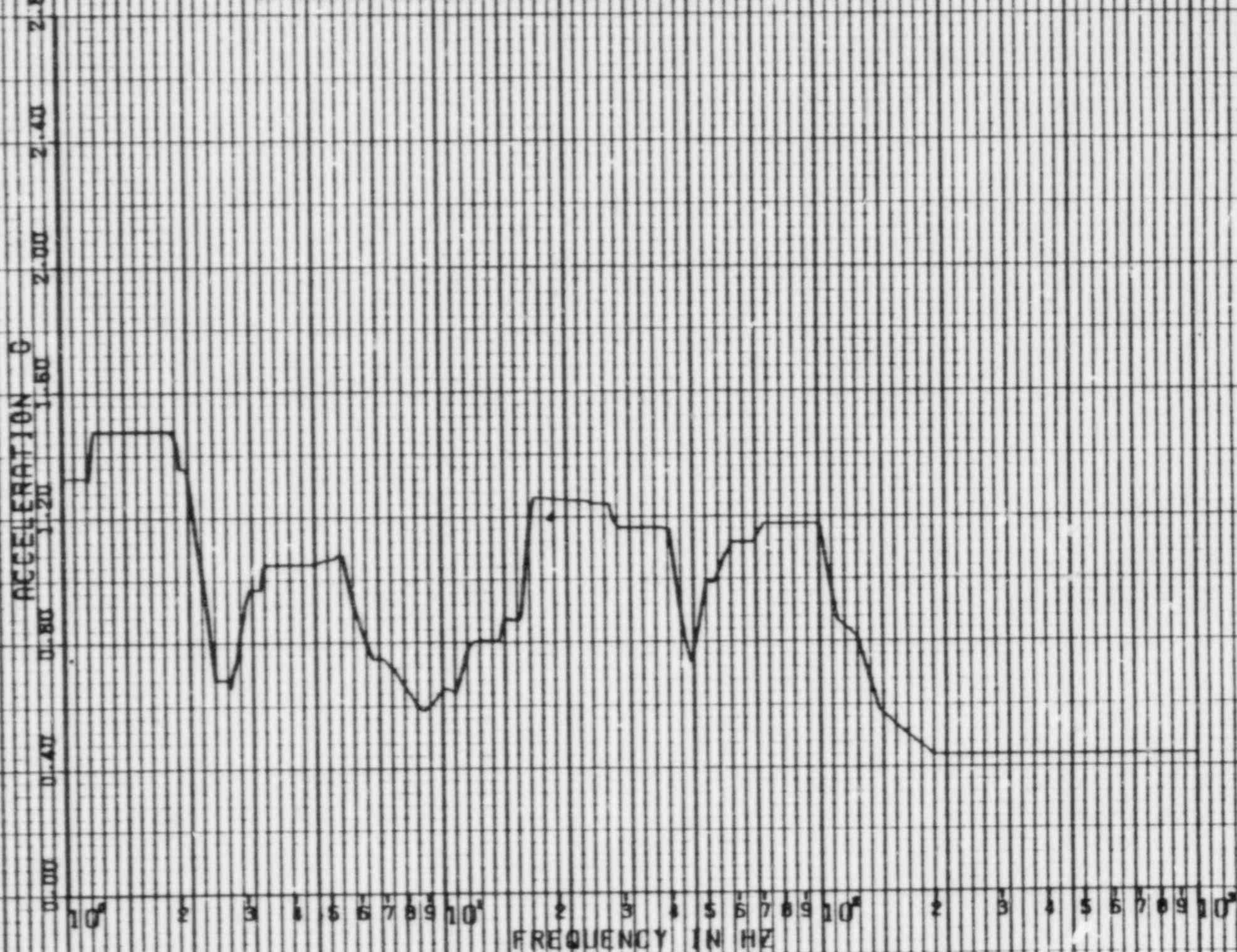
GULF STATES UTILITIES-RBS UNIT 1-CALC(12210-NM(C)-SQE-1903 REV(1)

RRS OF ACC.-REACTOR BLDG.,EL=182.88,MASS=04 SEIS MODEL-SHIELD BLDG

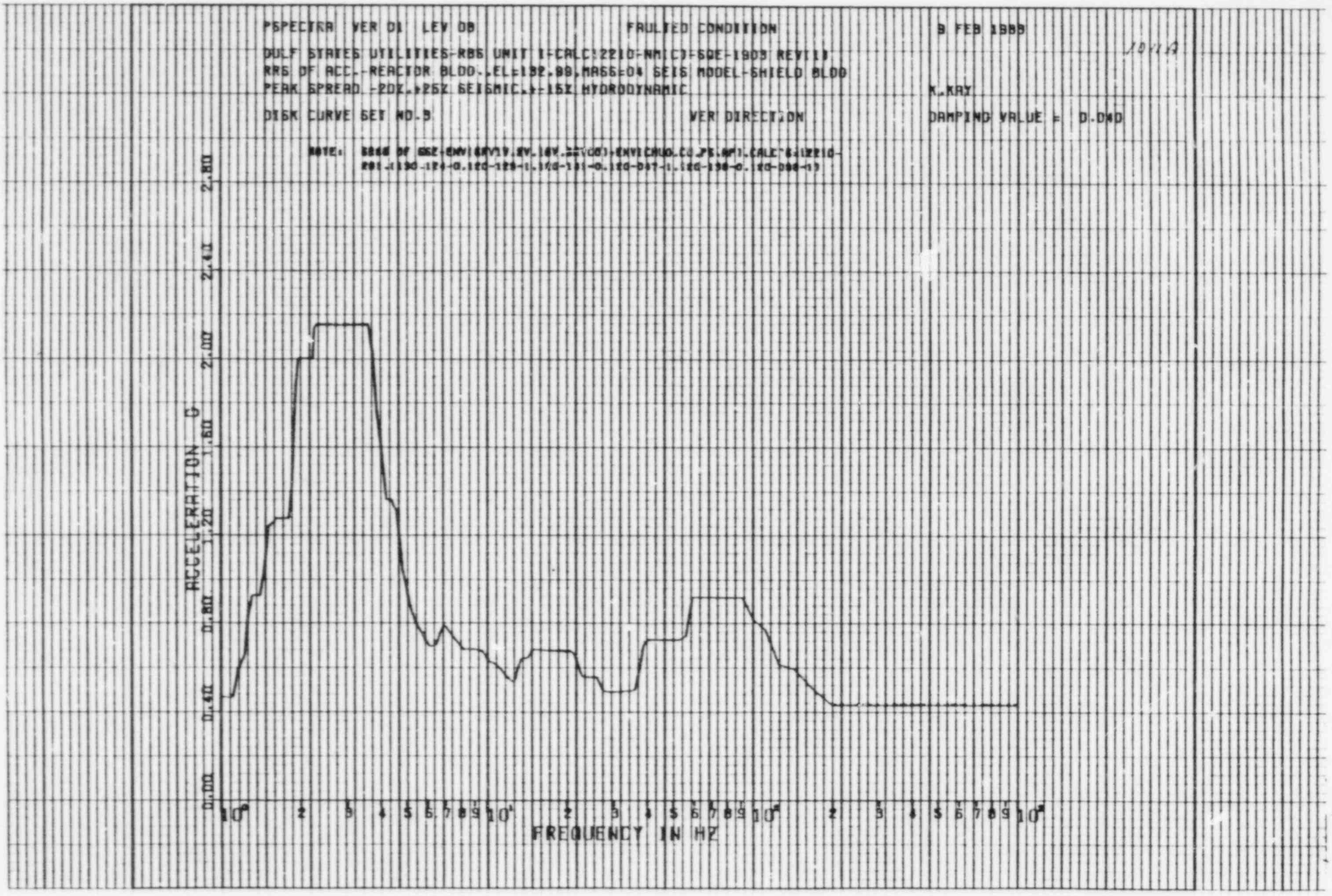
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC K.KAY

DISK CURVE SET NO.9 HOR DIRECTION DAMPING VALUE = 0.040

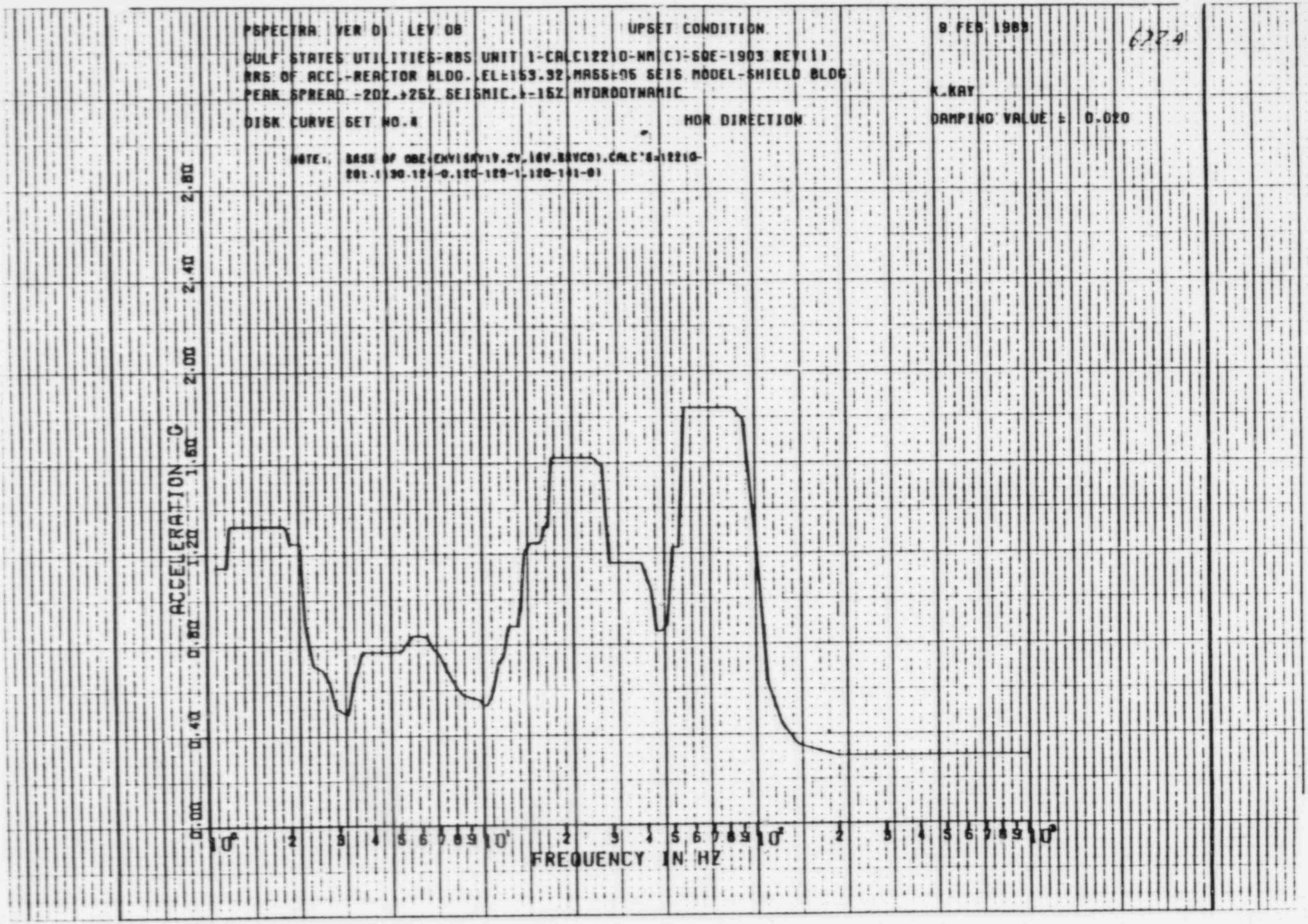
NOTE: SRSS OF SSE+(NV(SRV1V,EW,16V,SRV(C))+(NV(CRUD.CO,PS,AP)).CALC 6-12210-201.(190-12)-0.120-129-1.120-131-0.120-047-1.120-130-0.120-008-1)

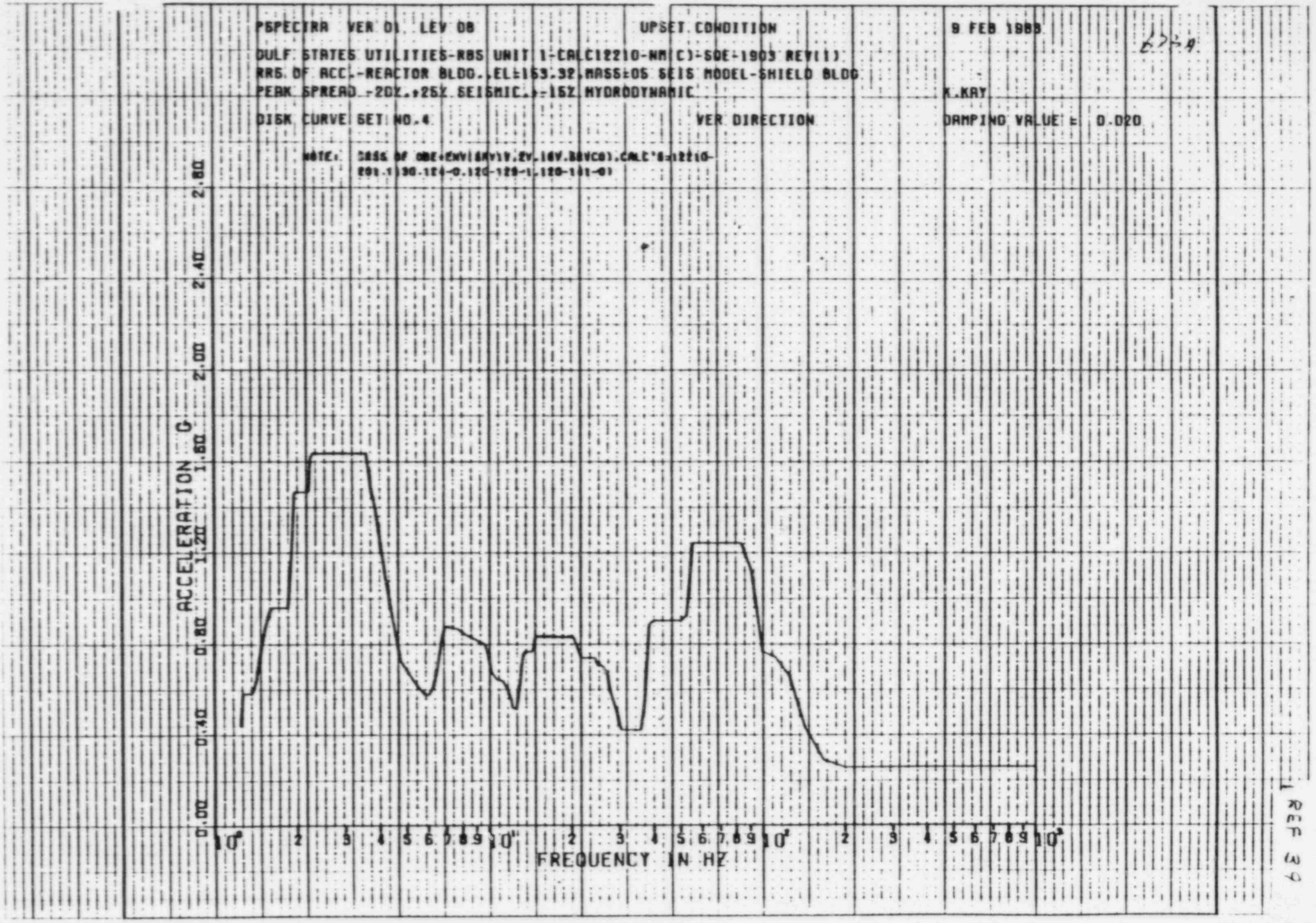


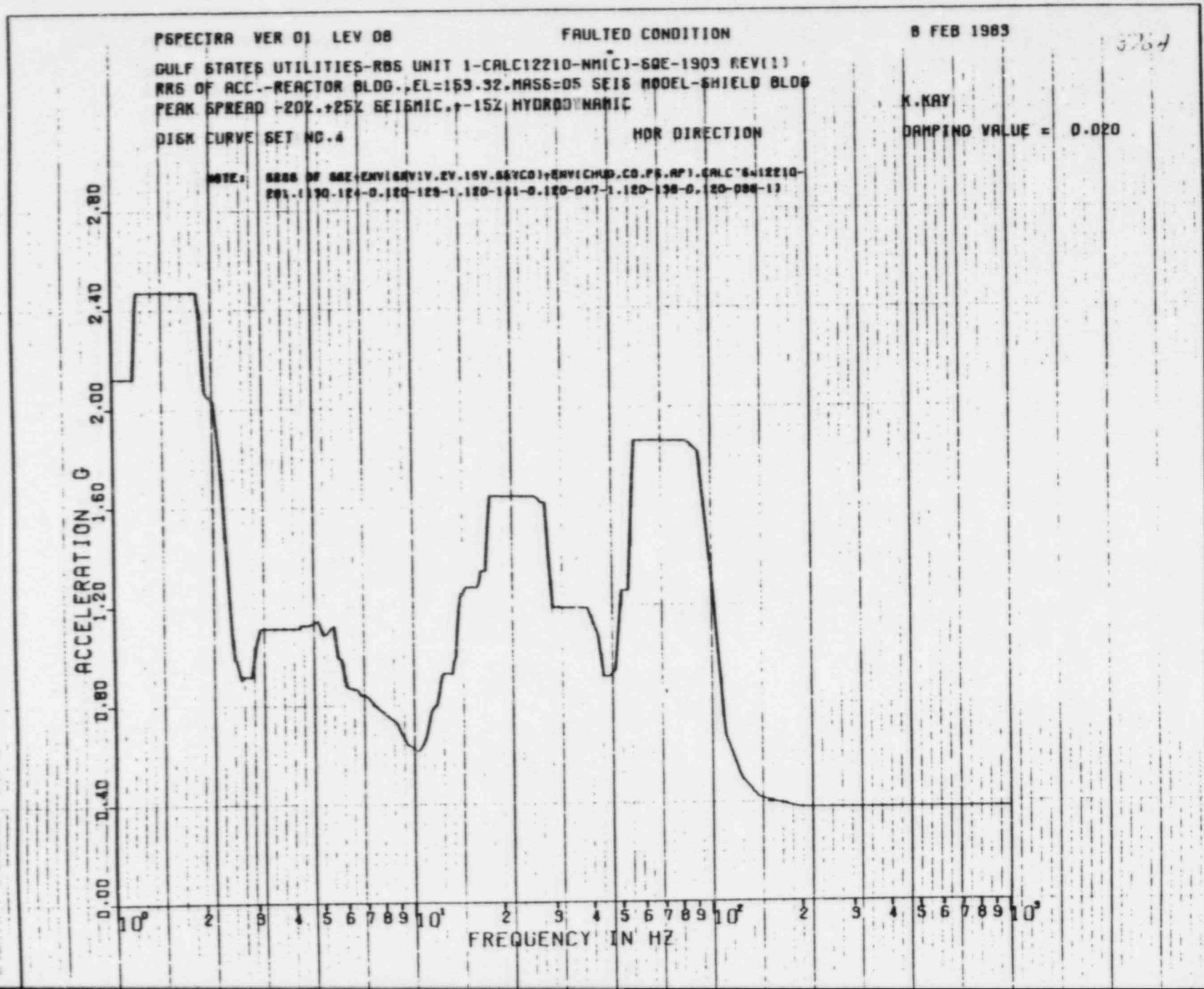
10/8/88

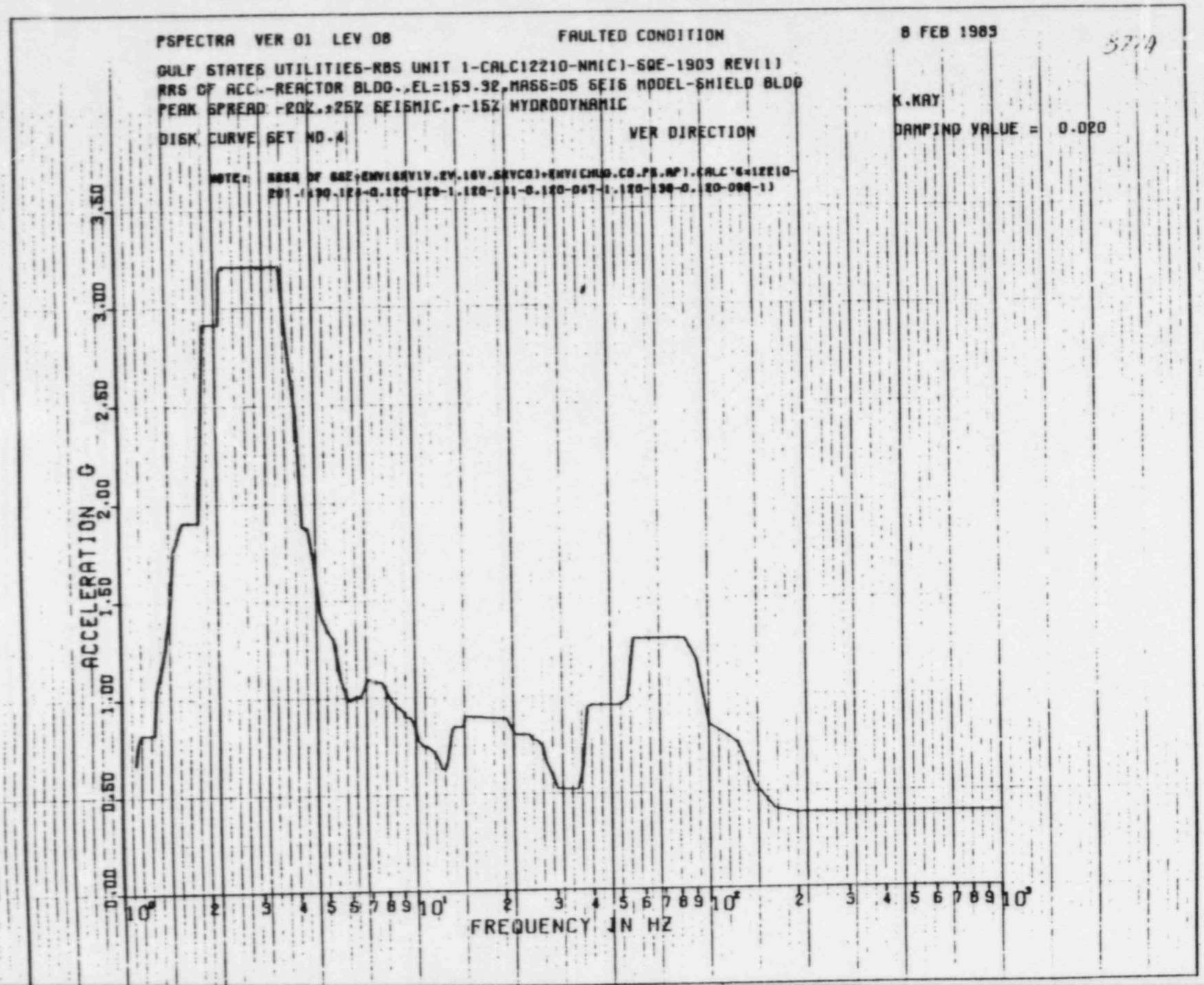

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC:2210-NMIC)-SQE-1903 REV:1)
RBS OF ACC.-REACTOR BLDG.,EL=132.00,AZ=0+ SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.3
VER DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
FREQUENCY IN HZ

REF 38


PSPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1989
6274
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=163.32,MASS=05 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.4
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: BASE OF OBE(EHV1SAV19.2V,18V.83YC0),CALC'S-12210-
201.(90.124-0.120-129-1.120-101-0)
ACCELERATION-G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ


PSPECTRA VER 01 LEV 08
UPSET CONDITION
8 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=163.32,MASS=05 SEIS MODEL-SHIELD BLDG
PEAK SPREAD =20%,=25% SEISMIC,=-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.4
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: ENVELOPE OF OBE+ENV(SRV19.2V,16V.88VCB),CALC'S=12210-
291.1)30.1Z4-0.12C-129-1.12D-101-01
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ
REF 39


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=153.32,MASS=05 SEIS MODEL-SHIELD BLDG
PEAK SPREAD +20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.4
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: SRSS OF SQE(ENV(SRV1V,2V,1SV,SSYCO),ENV(CHUG,CO,PS,AP),CALC'S#12210-201.(1)0.124-0.120-129-1.120-181-0.120-047-1.120-198-0.120-086-1)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
10⁰
2
3
4
5
6
7
8
9
10¹
2
3
4
5
6
7
8
9
10²
2
3
4
5
6
7
8
9
10³
FREQUENCY IN HZ


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=153.92,MASS=05 SEIS MODEL-SHIELD BLDG
PEAK SPREAD +20%,-25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.4
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: SRSS OF SSE-ENV(SSEV1V.2V.1BV.SSEVC0)+ENV(CHLD.C0.P5.NP).CALC'S=12210-201-(190.120-0.120-129-1.120-131-0.120-047-1.120-130-0.120-098-1)
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ

PSPECTRA VER 01 LEV 08 FAULTED CONDITION 9 FEB 1985

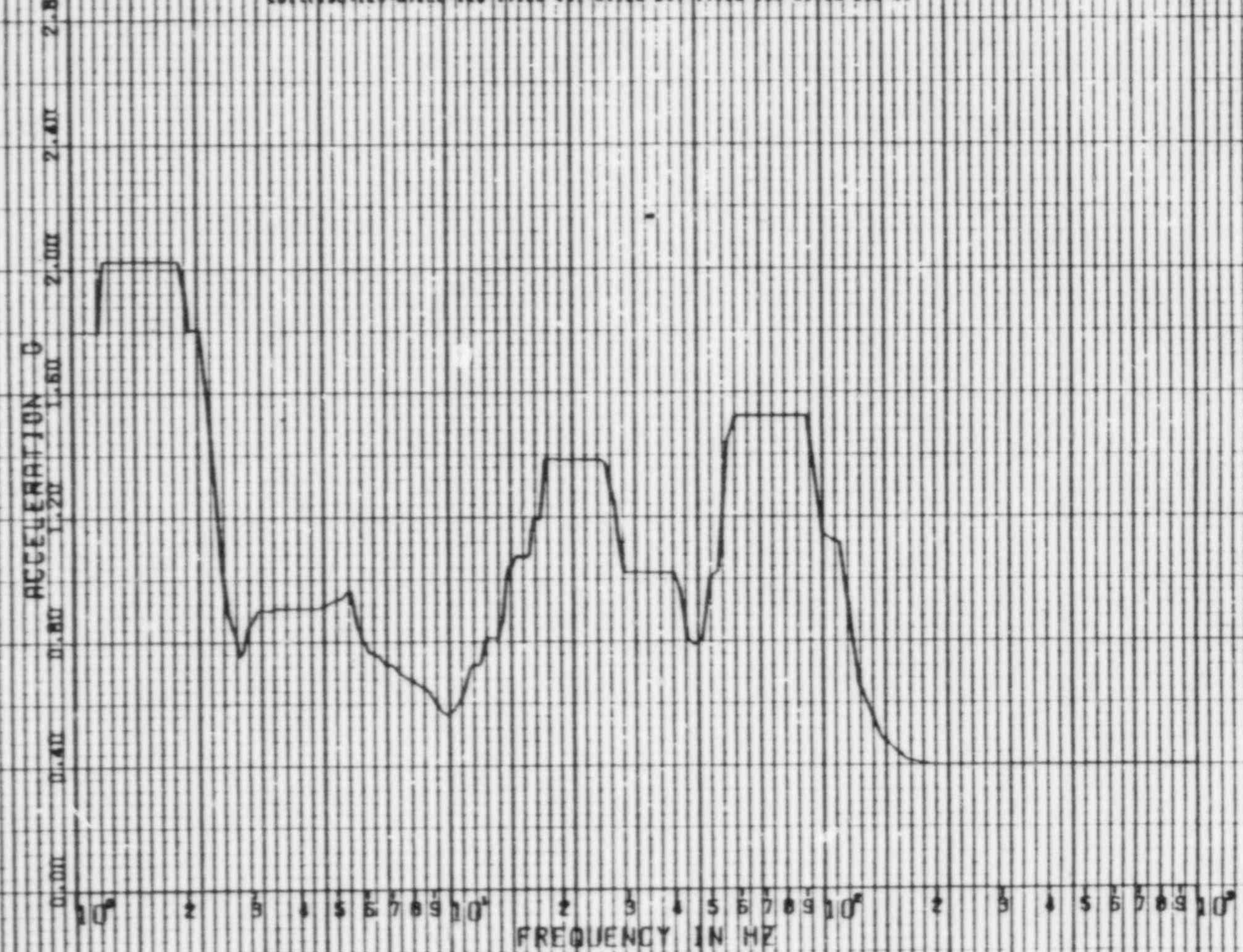
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1803 REV(1)

RRS OF ACC.-REACTOR BLDG.,EL=153.32,MASS=05 SEIS MODEL-SHIELD BLDG

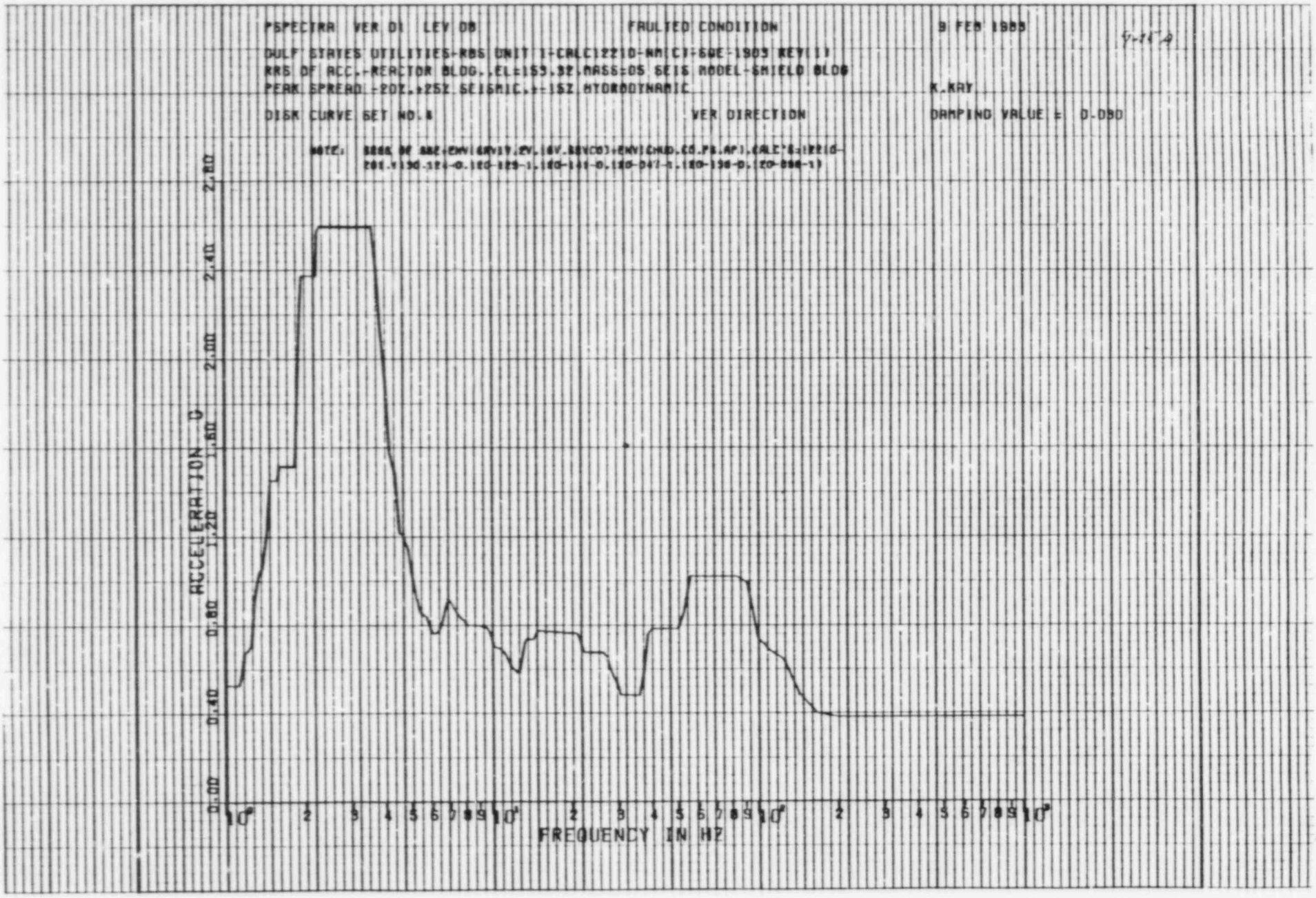
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC K.KAY

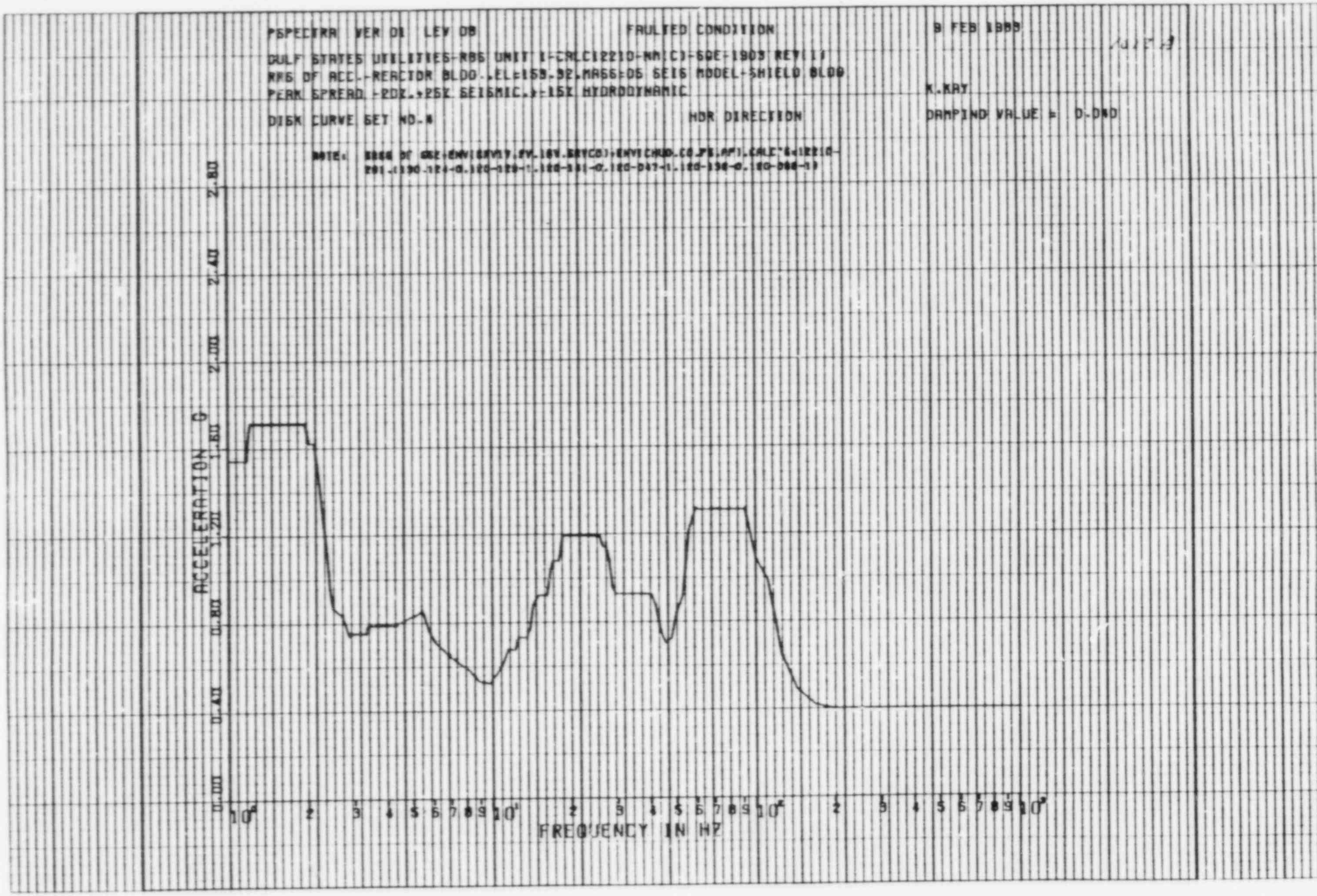
DISK CURVE SET NO.4 HOR DIRECTION DAMPING VALUE = 0.080

NOTE: SRSS OF SSE(ENV(SAV17,SV.18Y,SRYC0))+ENV(CHUG,CO,PS,AP),CALC 8-12210-201,(130-124-0,120-129-1,120-131-0,120-047-1,120-139-0,120-098-1)



REF 37


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-60E-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=155.33',MASS=05 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.4
VER DIRECTION
DAMPING VALUE = 0.050
NOTE: SRSS OF ABS(ENV(ERV17,EV,16V,REVCO))+ENV(CHRD,CO,PB,AP),CALC'6=(2216-201.*150.12+-0.1E0-125-1.1E0-141-0.1E0-047-1.1E0-150-0.1E0-096-1)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
10⁰
2
3
4
5
6
7
8
9
10¹
2
3
4
5
6
7
8
9
10²
2
3
4
5
6
7
8
9
10³
FREQUENCY IN HZ


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=153.32,MASS=05 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.8
HOR DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

REF 37

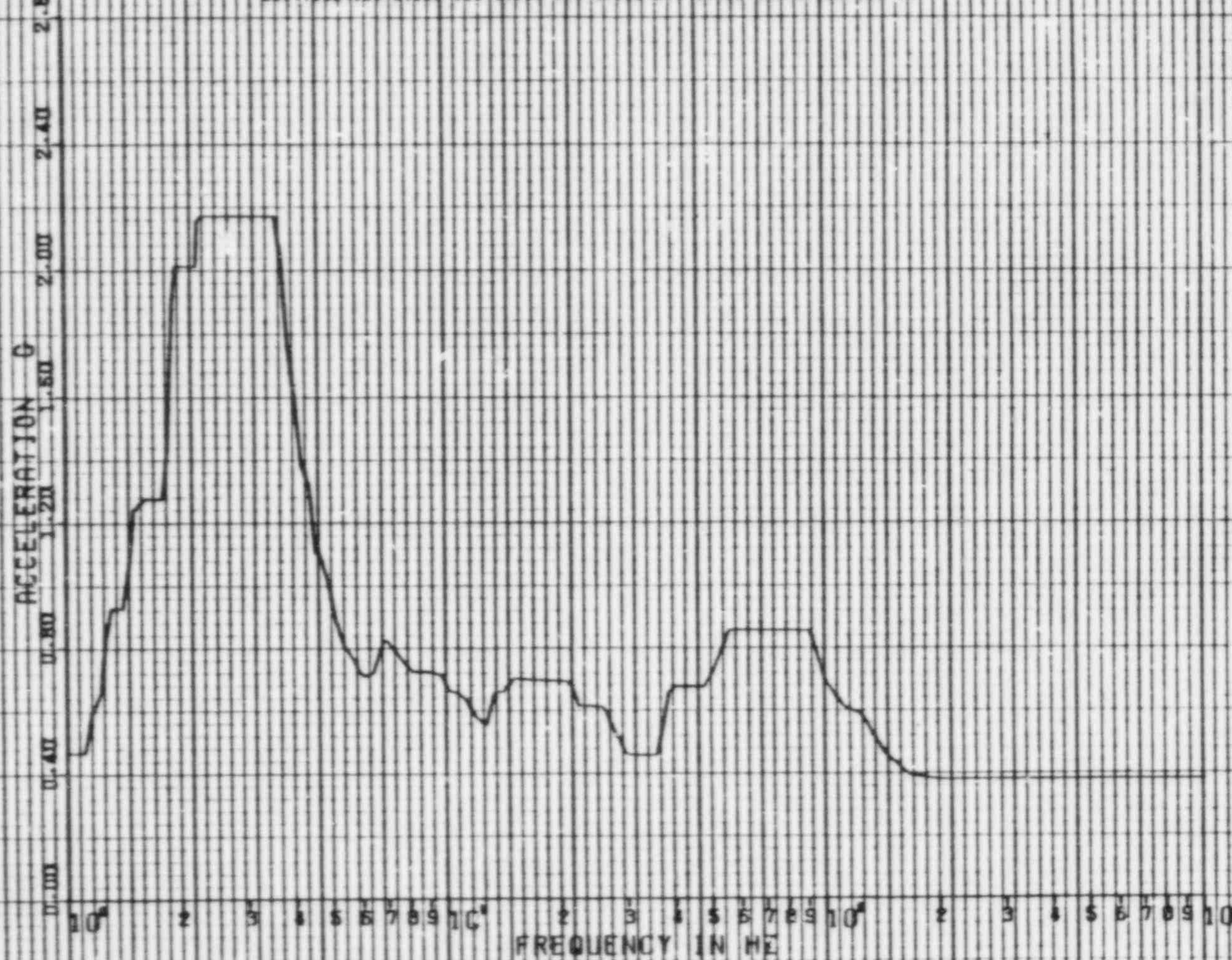
REF 39

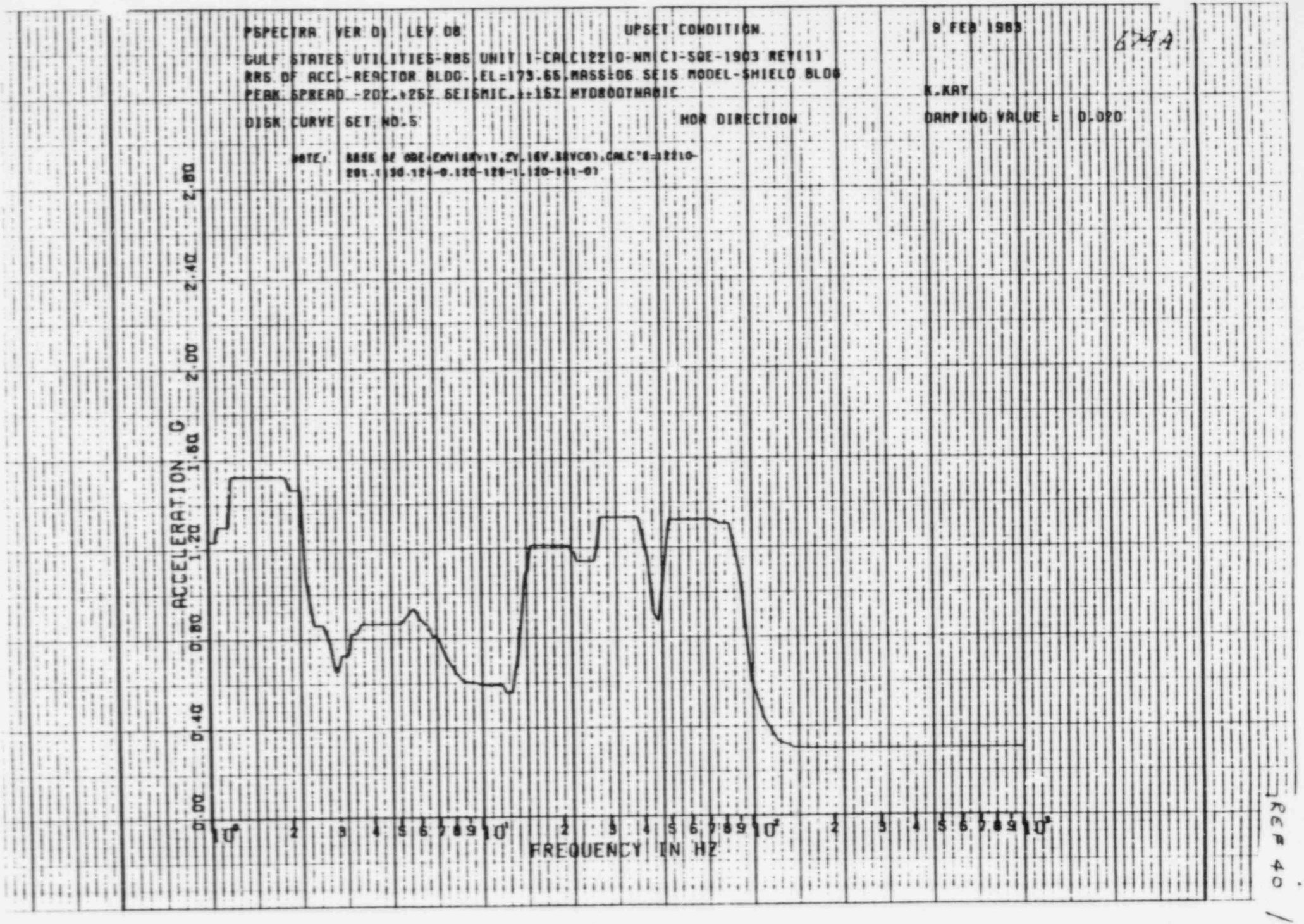
PSPECTRA VER 01 LEV 08 FAULTED CONDITION 8 FEB 1988

GULF STATES UTILITIES-RBS UNIT 1-CALC(2210-NM(C)-SQE-1909 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=159.32,MASS=05 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC K.KAY

DISK CURVE SET NO.4 VER DIRECTION DAMPING VALUE = 0.040

NOTE: [illegible]




PSPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1983
6244
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM C1-SQE-1903 REV[1]
RBS OF ACC.-REACTOR BLDG. EL=173.65 MASS=06 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC, +-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.5
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: BASIS OF OBE=EXV(SRV)1Y,2V,1GV,SSVC8),CALC'S=12210-
201.1)30.124-0.120-120-1.120-141-0)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ
REV # 40

REF 40

PSPECTRA VER 01 LEV 08 — UPSET CONDITION — 9 FEB 1983 — 675A

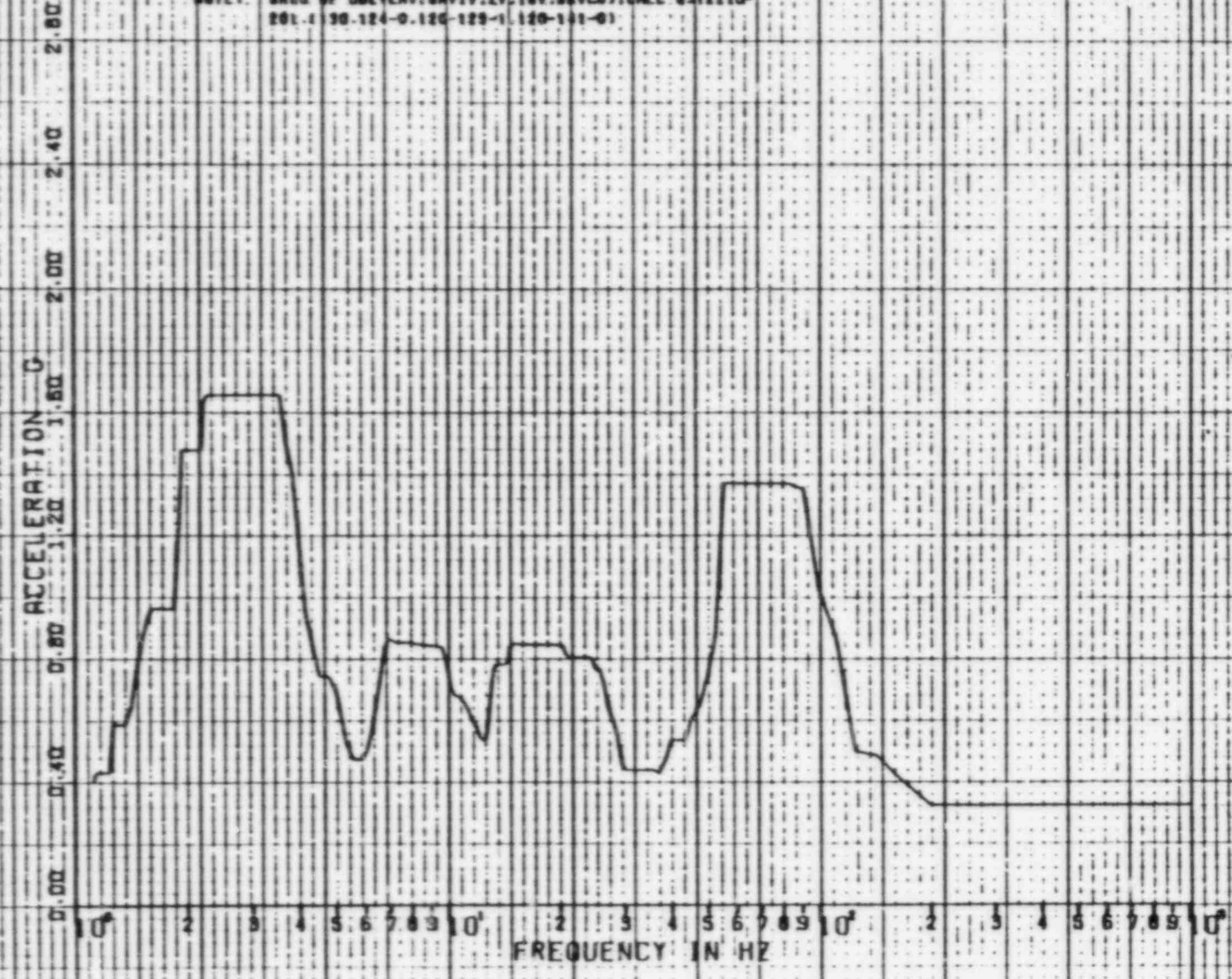
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SOE-1903 REV(1)

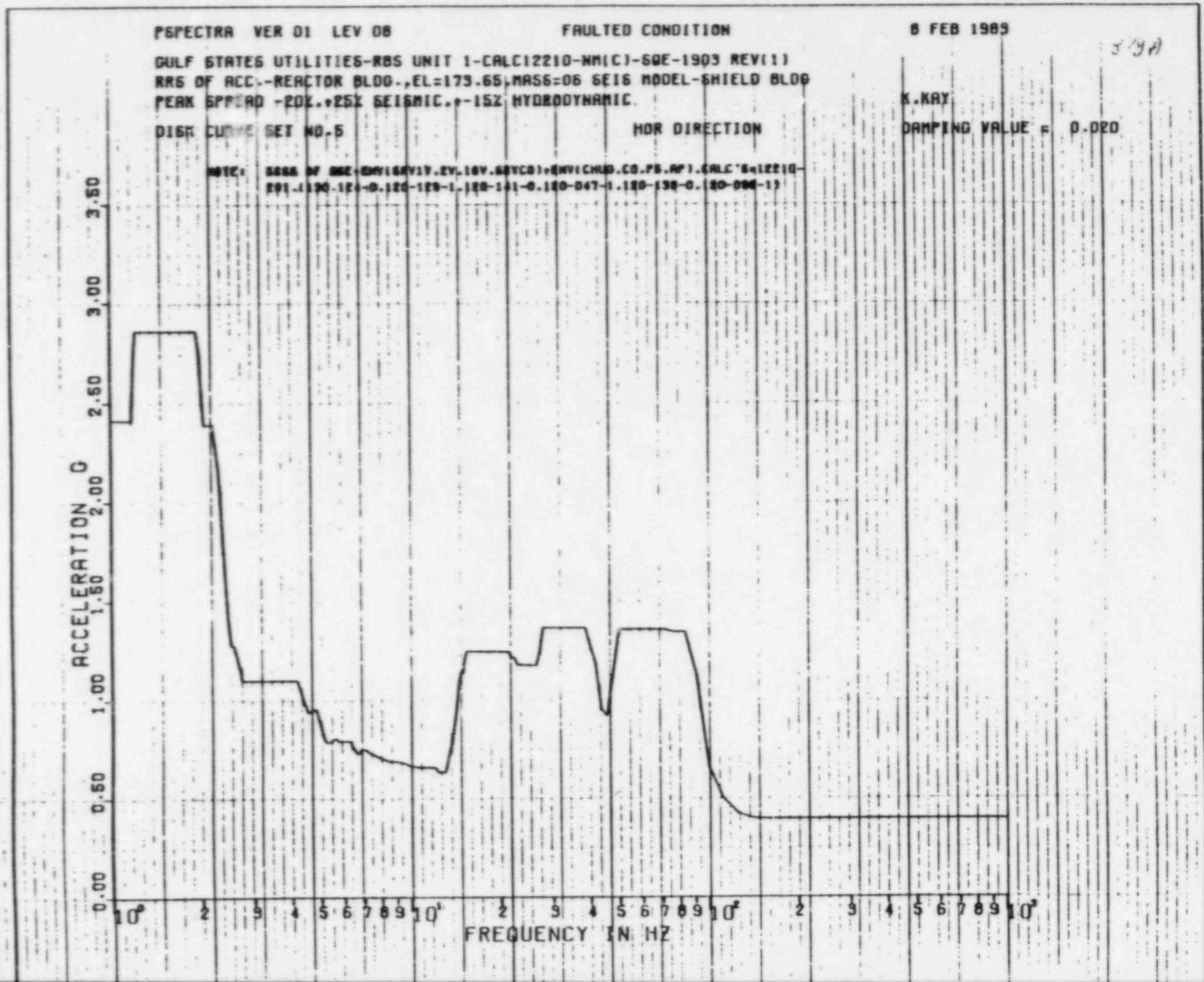
RRS OF ACC.-REACTOR BLDG.,EL=173.65,MASS=06 SEIS MODEL-SHIELD BLDG

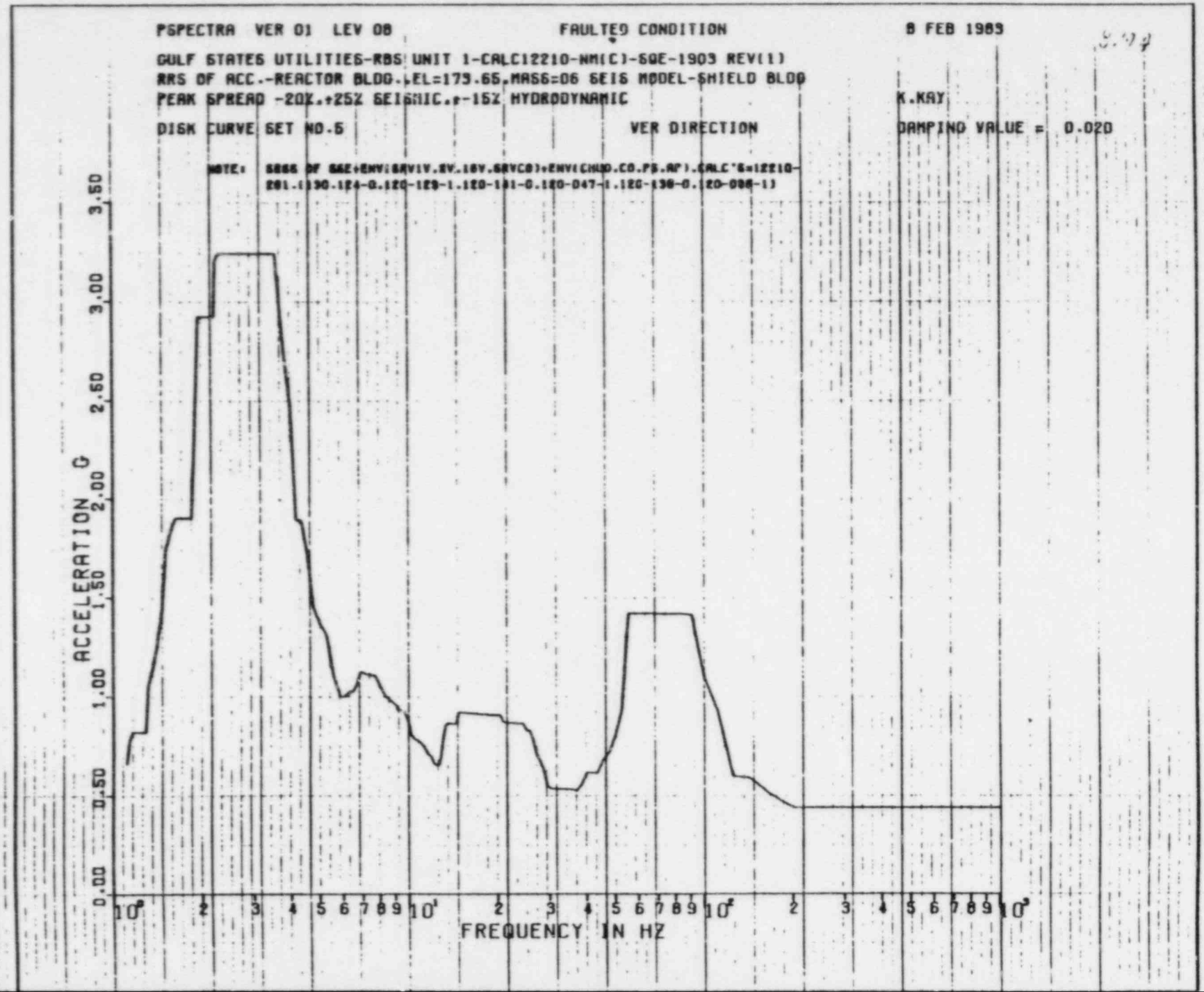
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC — K.KAY

DISK CURVE SET NO.5 — VER DIRECTION — DAMPING VALUE = 0.020

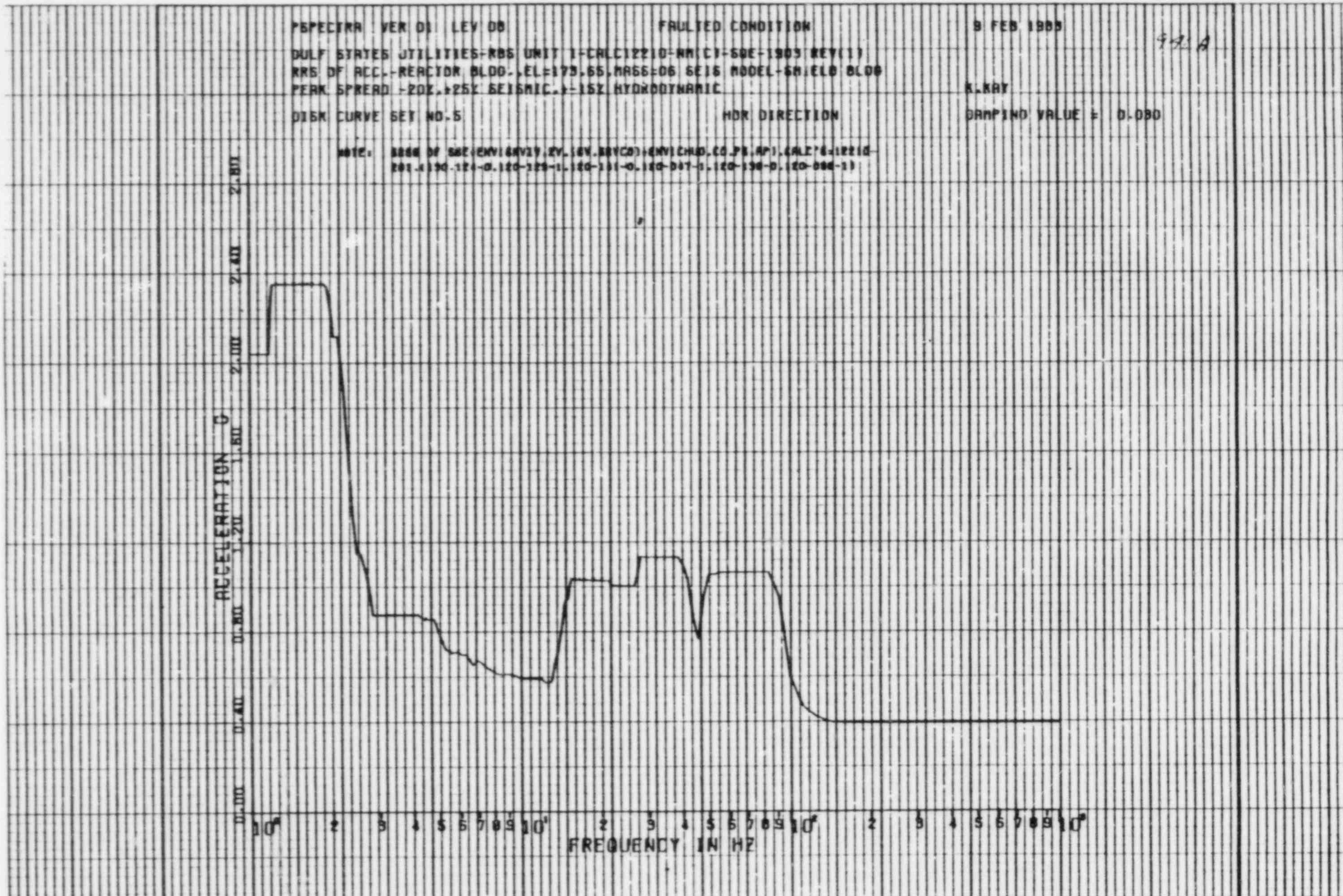
NOTE: SRSS OF OBE(ENV(SRV1V.2V.(6V.SRVCO).CALC'6=12210-201.(130.124-0.120-129-1.120-141-0)

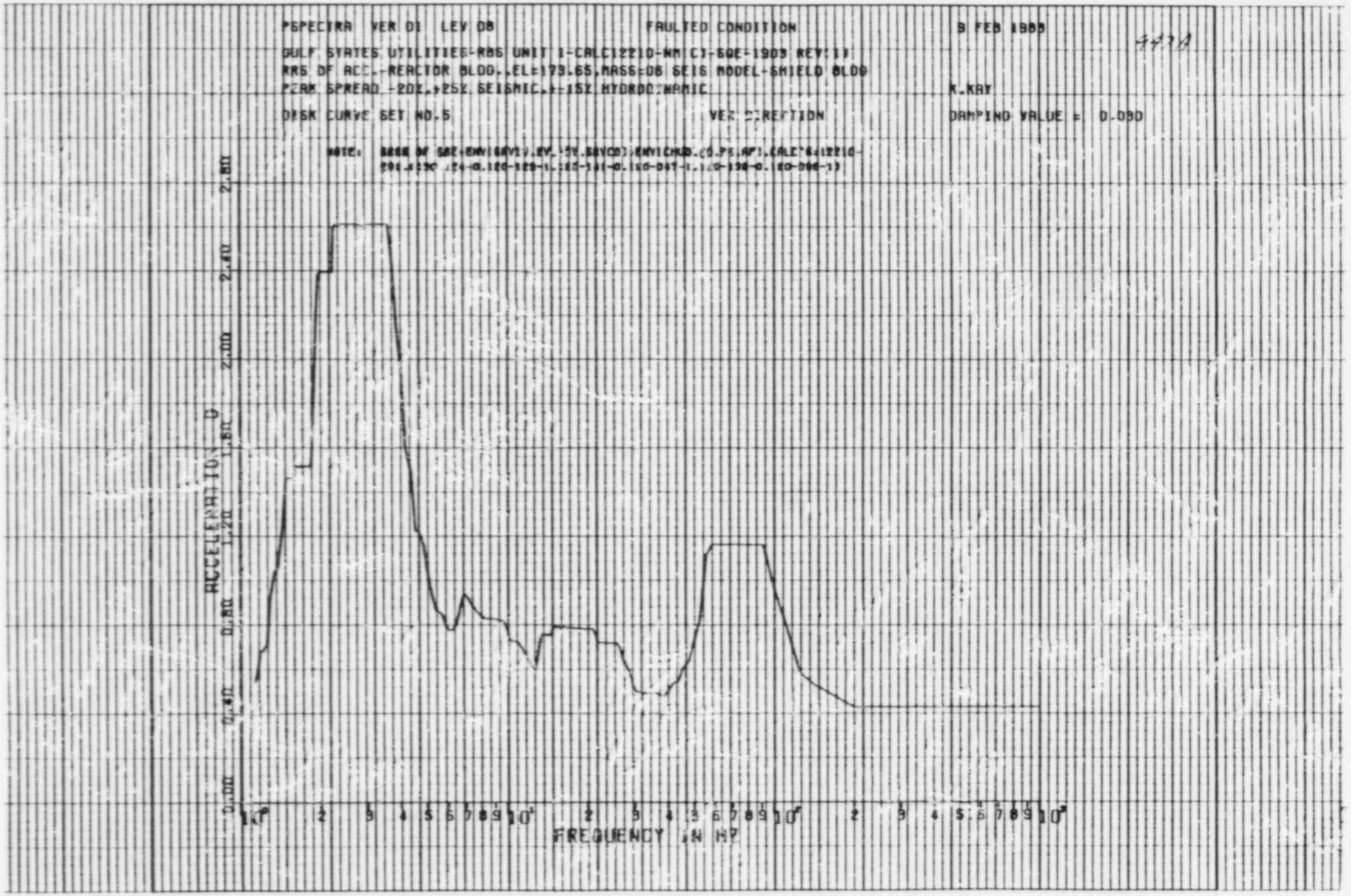


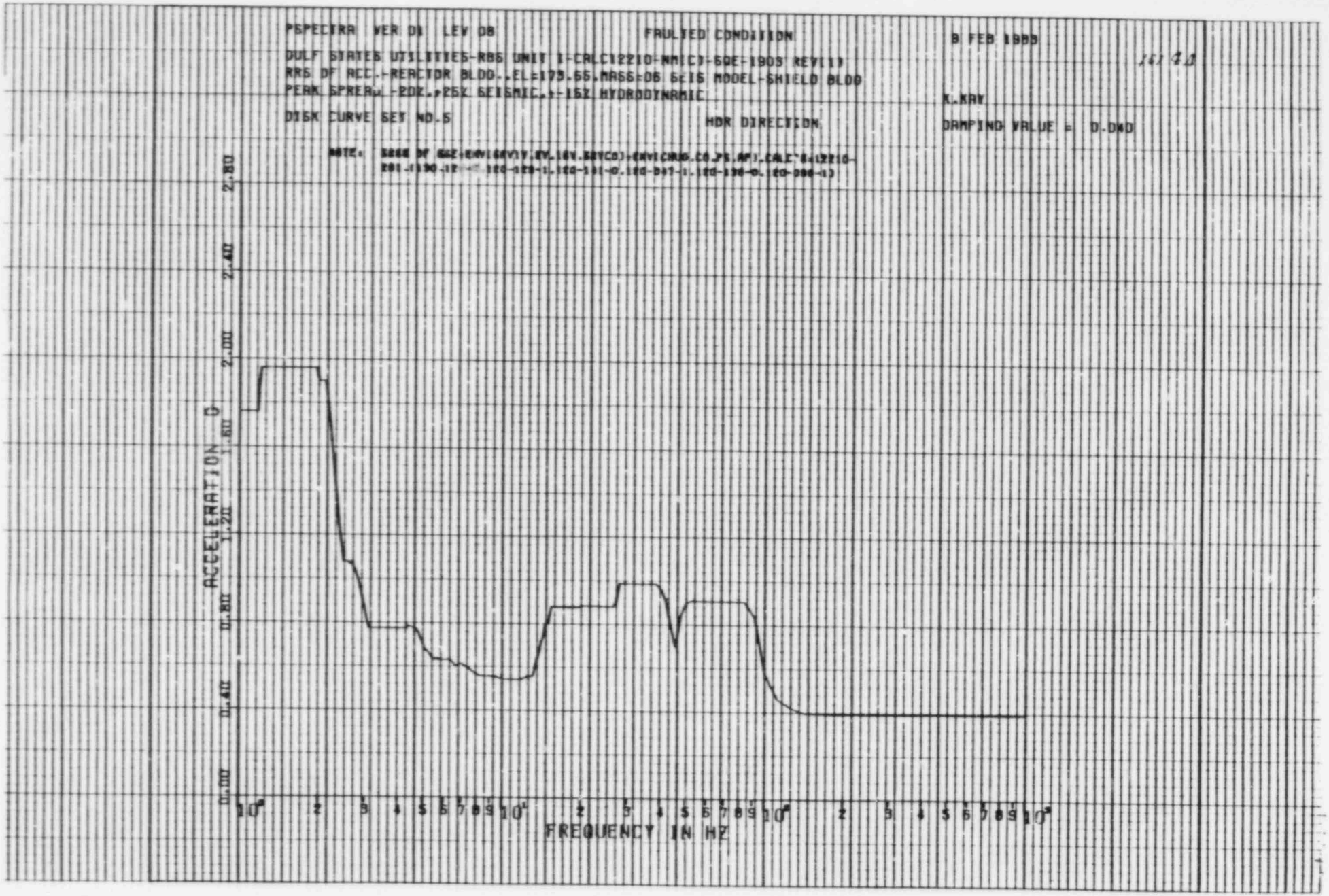

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=173.65,MASS=06 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISP CURVE SET NO.5
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=173.65,MASS=06 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.5
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: SRSS OF SSE+ENV(SRV1V,SV,1BV,SBVC8)+ENV(CHSD,CO,PS,AP),CALC'S=12210-201.(130,124-0.12C-129-1.12D-131-0.12D-047-1.12C-130-0.12D-006-1)
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
FREQUENCY IN HZ

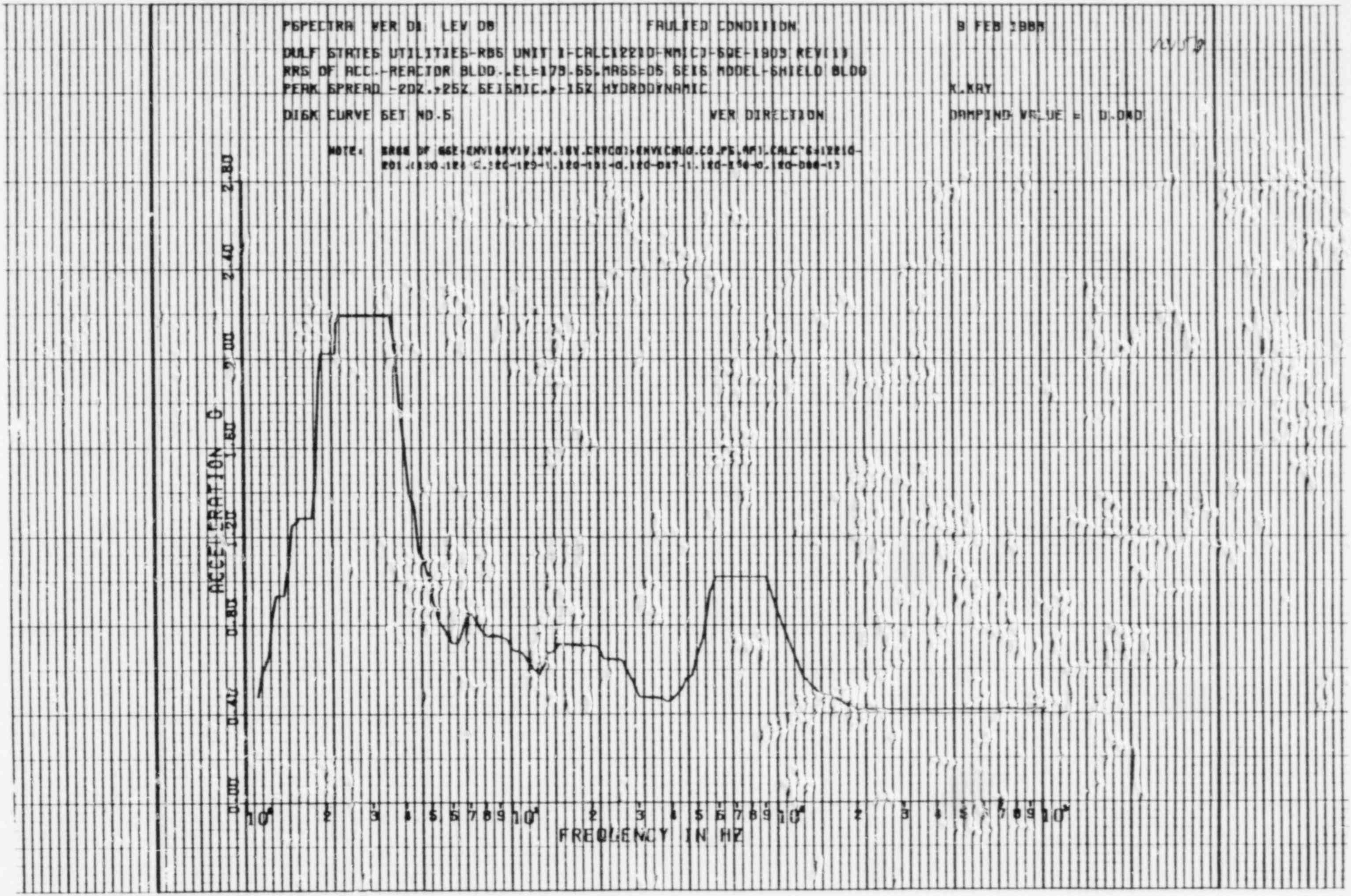
REF 40


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=173.65,MASS=06 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.5
HOR DIRECTION
DAMPING VALUE = 0.080
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

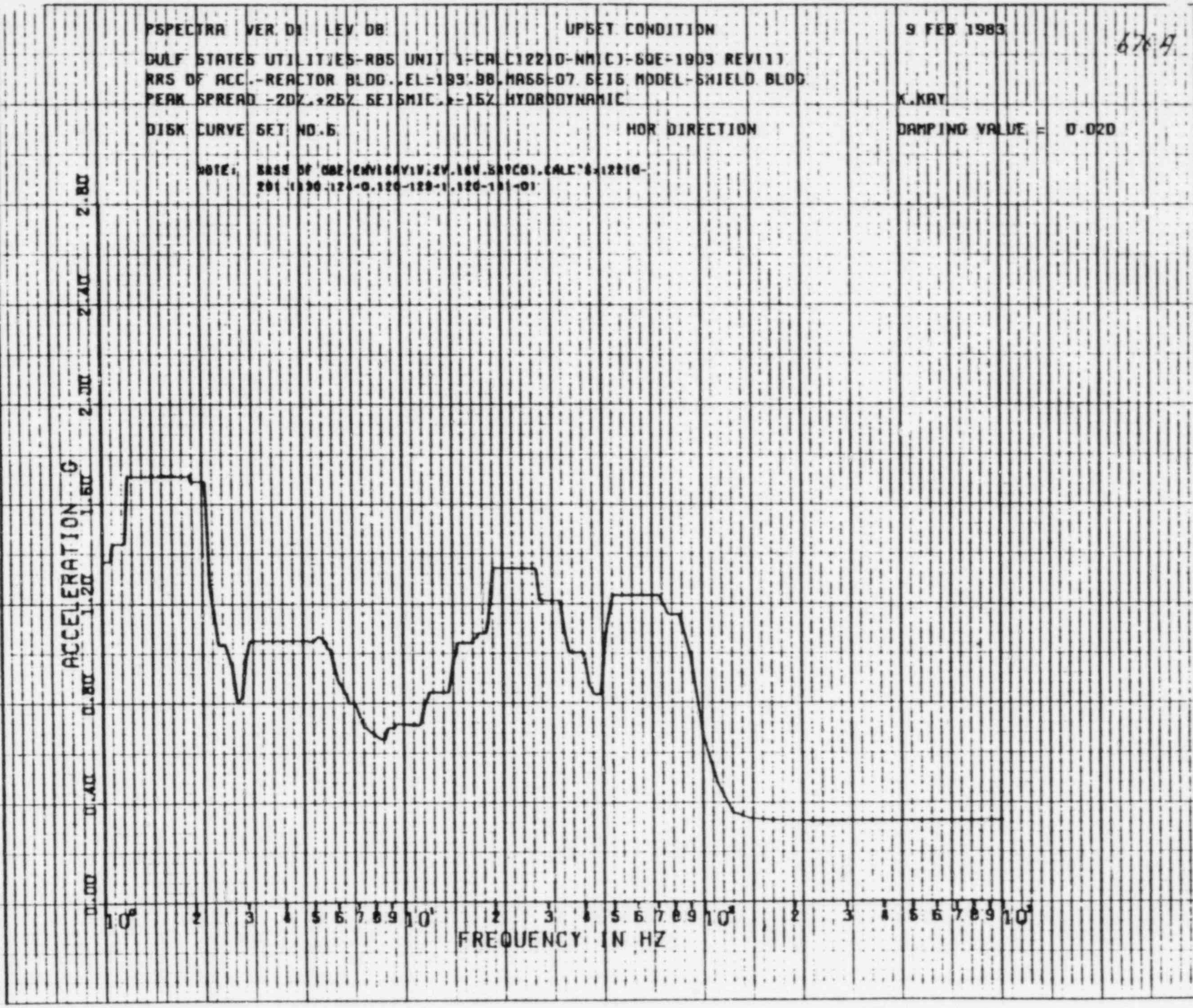

SPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM C)-SQE-1903 REV: 1?
RMS OF ACC.-REACTOR BLDG.,EL=179.65,MASS=08 SEIS MODEL-SMIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,++15% HYDRODYNAMIC
K.KAY
DESK CURVE SET NO.5
VER: CREATION
DAMPING VALUE = 0.080
ACCELERATION, G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ
1
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10


PSPECTRA VER 01 LEV 08 FAULTED CONDITION
8 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=179.65,AREA=06 SEIS MODEL-SHIELD BLDG
PEAK SPREAU -2DZ.,2SK SEISMIC,)-1SZ HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.5 HOR DIRECTION DAMPING VALUE = 0.040
NOTE: EQUATION OF CURVE=(ENVELOPE(V19,EV.16V.SEYCO)+ENVELOPE(RUD.CO.75.AF).CALC 84-12210-
ACCELERATION G
0.000
0.400
0.800
1.200
1.600
2.000
2.400
2.800
FREQUENCY IN HZ

REF 40


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SDE-1909 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=179.55,MASS=05 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.5
VER DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

REF 41


PSPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=183.98,MASS=07 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.6
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE:
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ
10^0
2
3
4
5
6
7
8
9
10^1
2
3
4
5
6
7
8
9
10^2
2
3
4
5
6
7
8
9
10^3

REF 41

SPECTRA VER 01 LEV 08 UPSET CONDITION 9 FEB 1983

6778

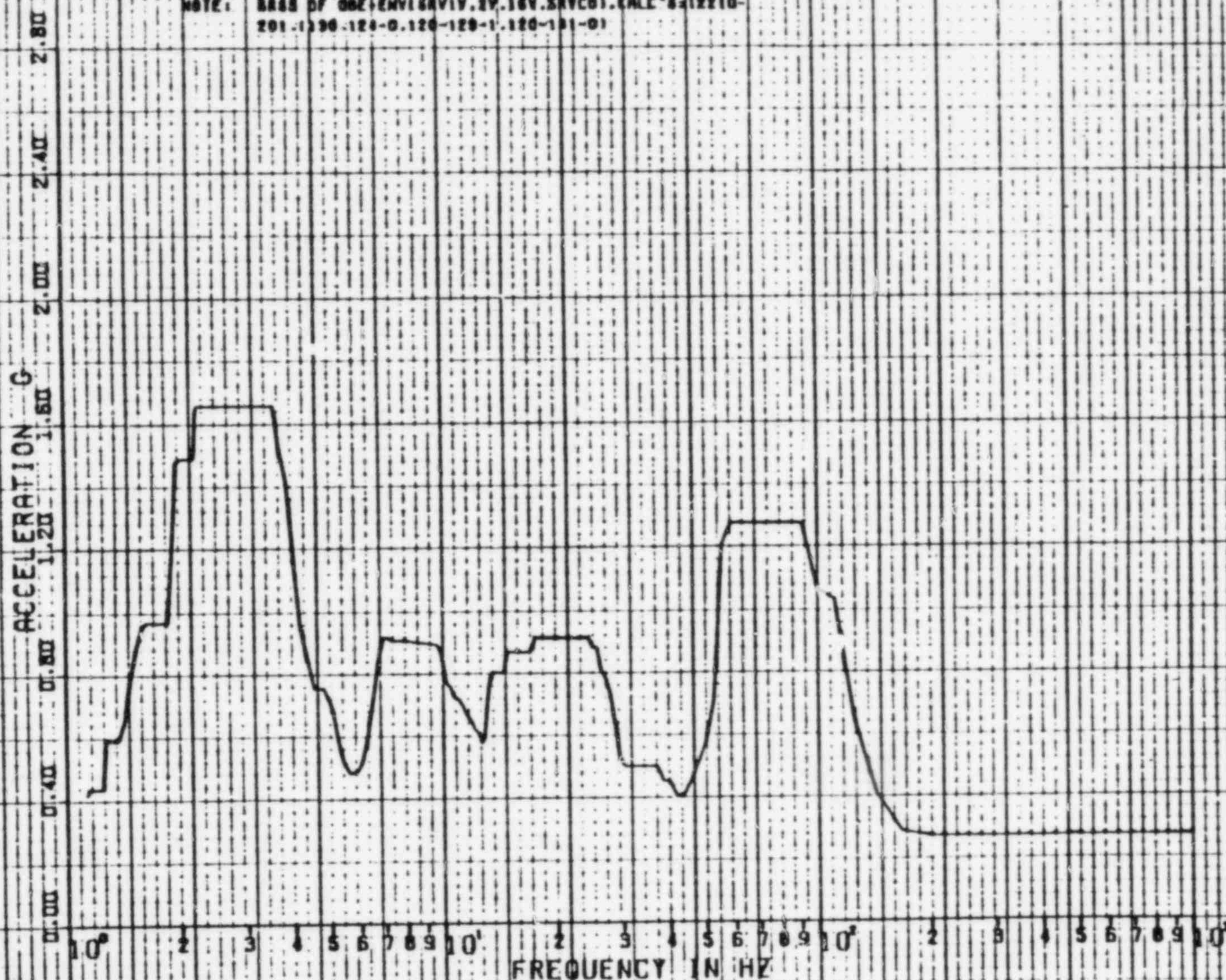
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SDE-1903 REV(1)

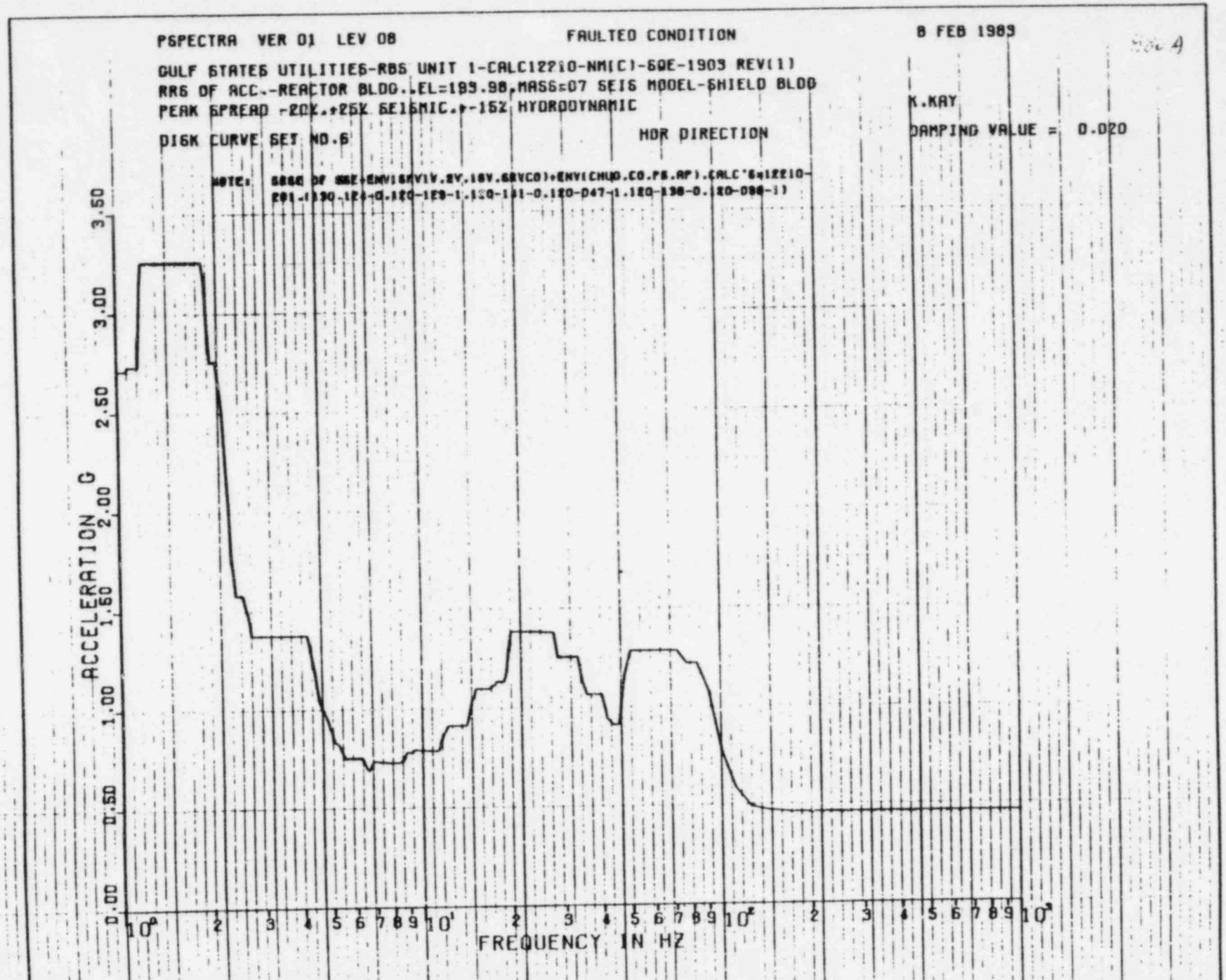
RRS OF ACC.-REACTOR BLDG.,EL=183.98,MASS=07 SEIS MODEL-SHIELD BLDG

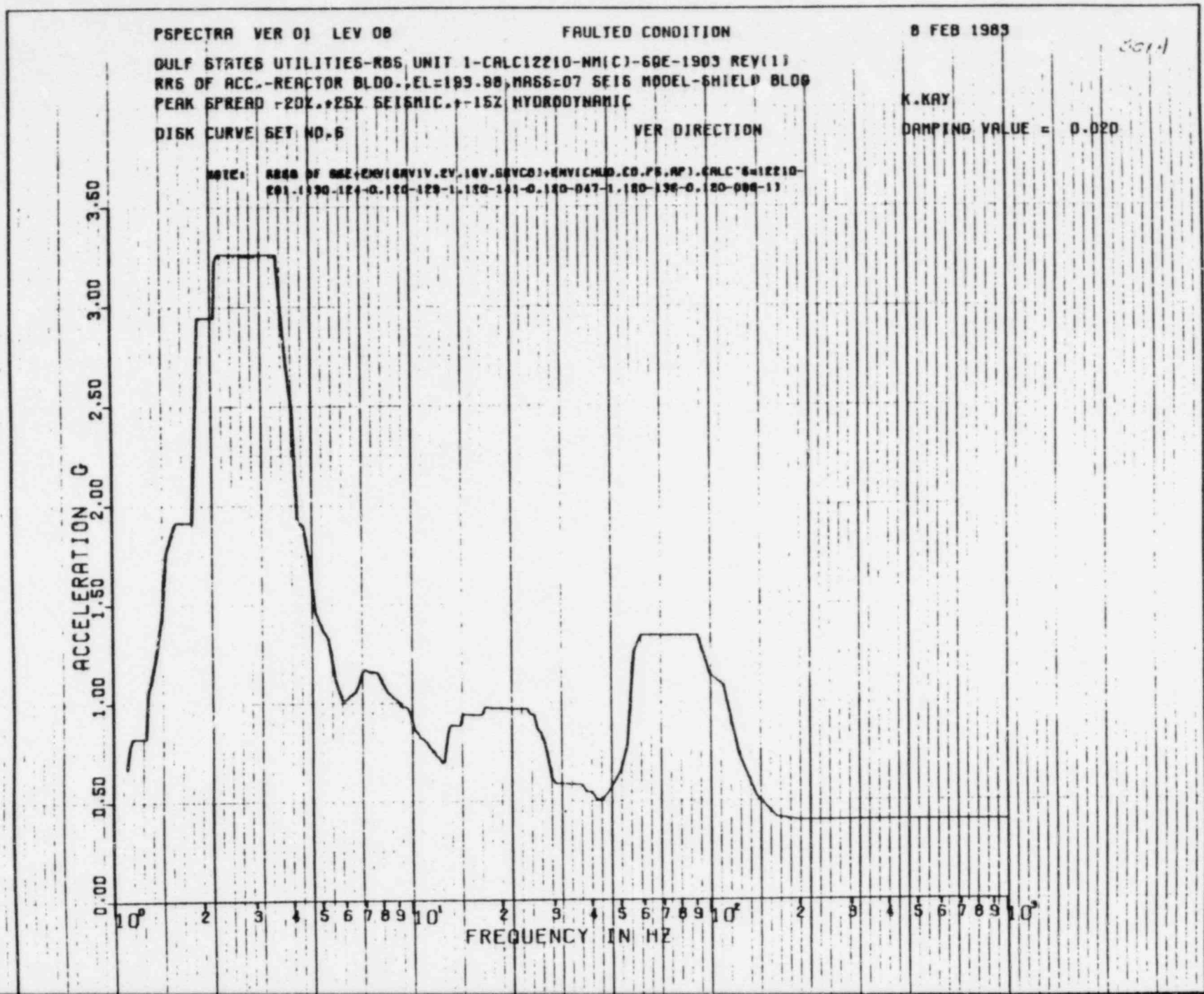
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC K.KAY

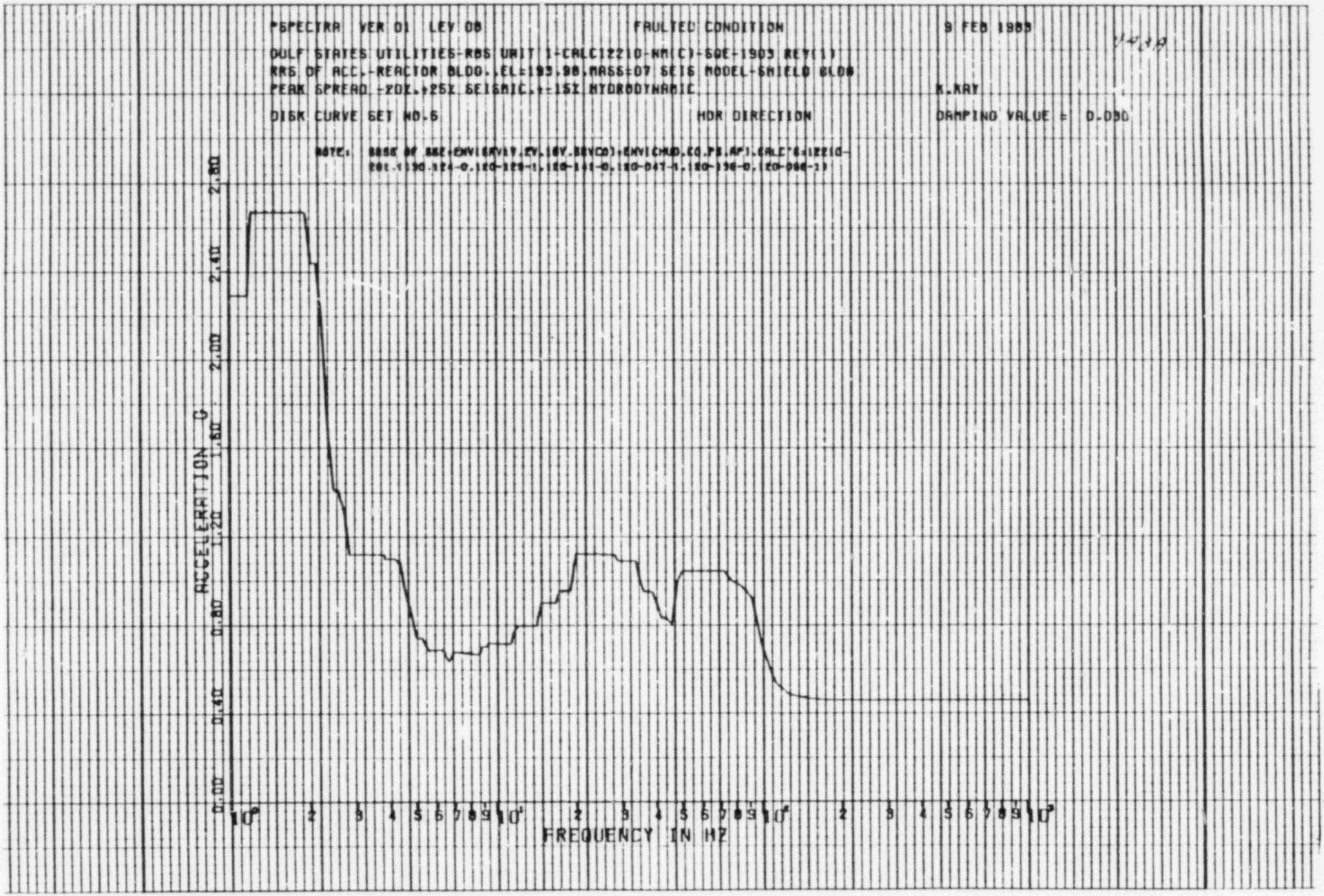
DISK CURVE SET NO.6 VER DIRECTION DAMPING VALUE = 0.020

NOTE: BASE OF OBE+ENV(SRV(Y,2V,16V,SRVC0),CALC 6-12210-201.1)36.124-0.120-129-1.120-131-01

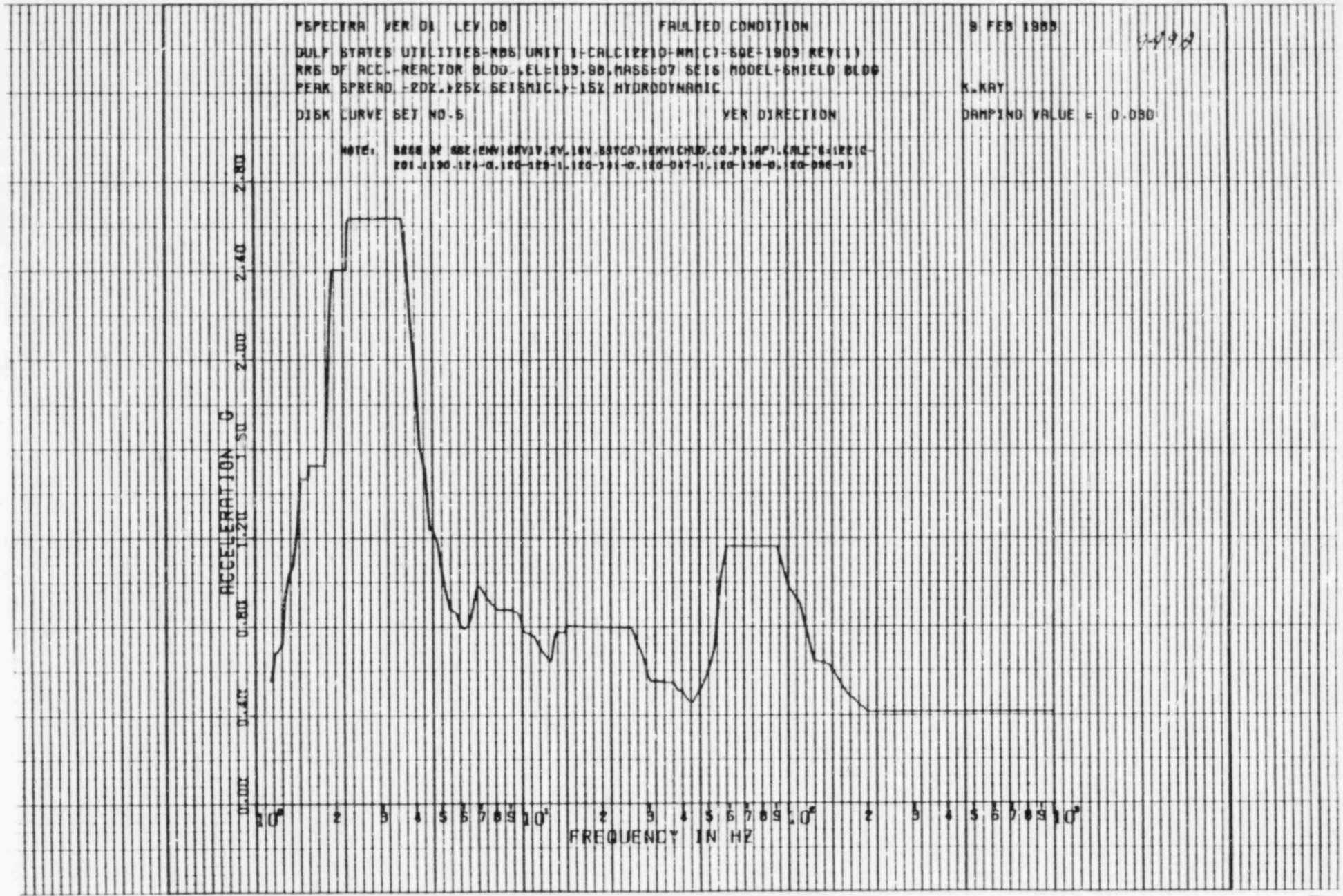


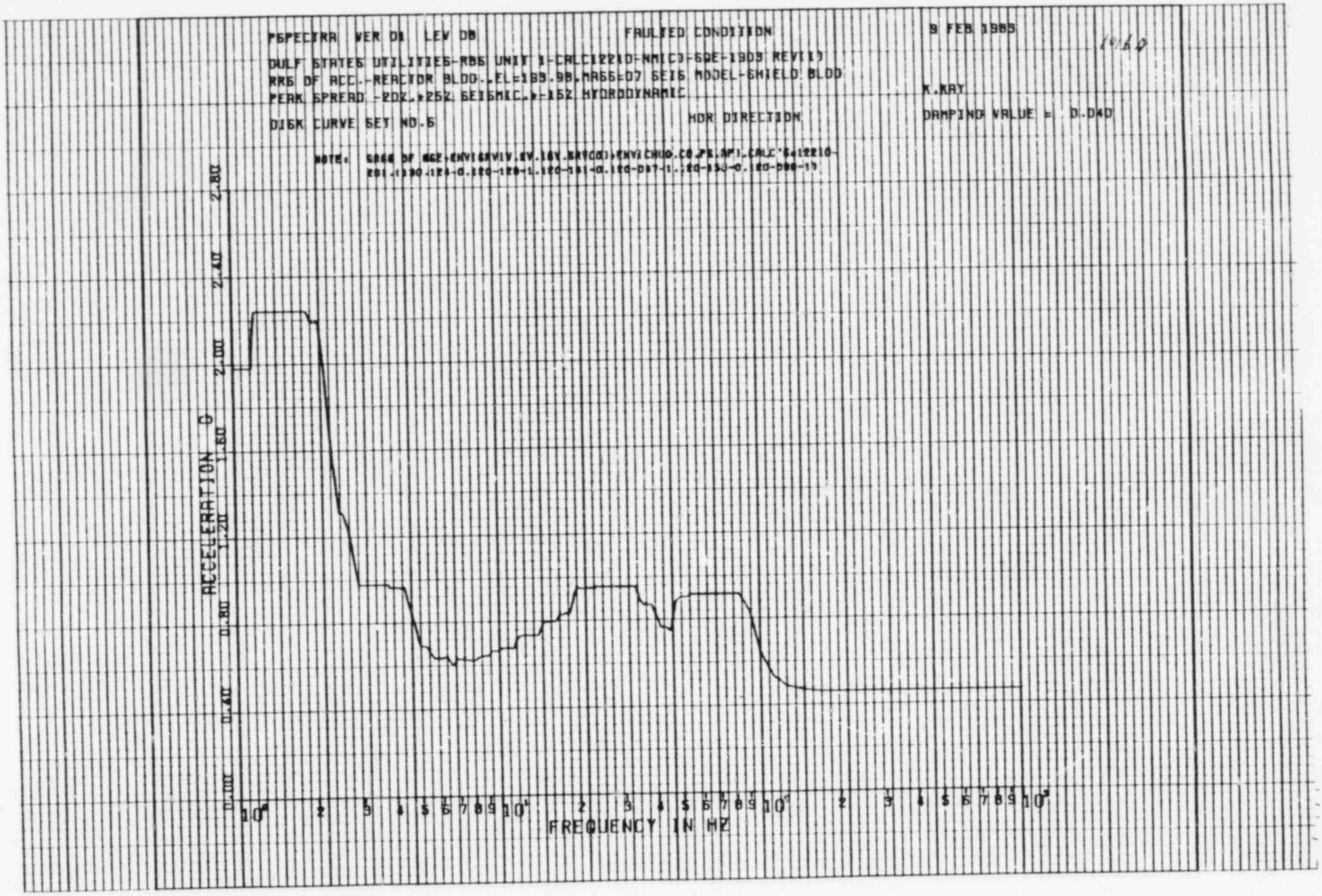

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-GSE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=185.98,MASS=07 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.6
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: SRSS OF SSE-ENV(SRV1V.2V.1HV.SRVCO)+ENV(CHUO.CO.PS.AP).CALC'S=12210-201.(130.120+0.120-123-1.120-131-0.120-047-1.120-138-0.120-098-1)
ACCELERATION G
0.00
0.50
1.00
1.60
2.00
2.50
3.00
3.50
10^0
2
3
4
5
6
7
8
9
10^1
2
3
4
5
6
7
8
9
10^2
2
3
4
5
6
7
8
9
10^3
FREQUENCY IN HZ


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-GQE-1903 REV(1)
RBS OF ACC.-REACTOR BLDG.,EL=193.88,MASS=07 SEIS MODEL-SHIELD BLDG
PEAK SPREAD =20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.6
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: AREA OF GQE+ENV(SRV1V,2V,1BV,SRVCB)+ENV(CHLD,CO,PS,AP),CALC'S=12210-
201.(190-124-0.180-129-1.180-141-0.180-047-1.180-138-0.180-006-1)
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
10⁰
2
3
4
5
6
7
8
9
10¹
2
3
4
5
6
7
8
9
10²
2
3
4
5
6
7
8
9
10³
FREQUENCY IN HZ


SPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-60E-1903 REV(1)
RMS OF ACC.-REACTOR BLDG.,EL=193.98,MASS=07 SEIS MODEL+SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
X.RAY
DISK CURVE SET NO.6
HOR DIRECTION
DAMPING VALUE = 0.050
NOTE: BASE OF BSE+ENV(ERV17,EV,16V,BEVCO)+ENV(CHUD,CO,P3,AP),CALC'S(12210-
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

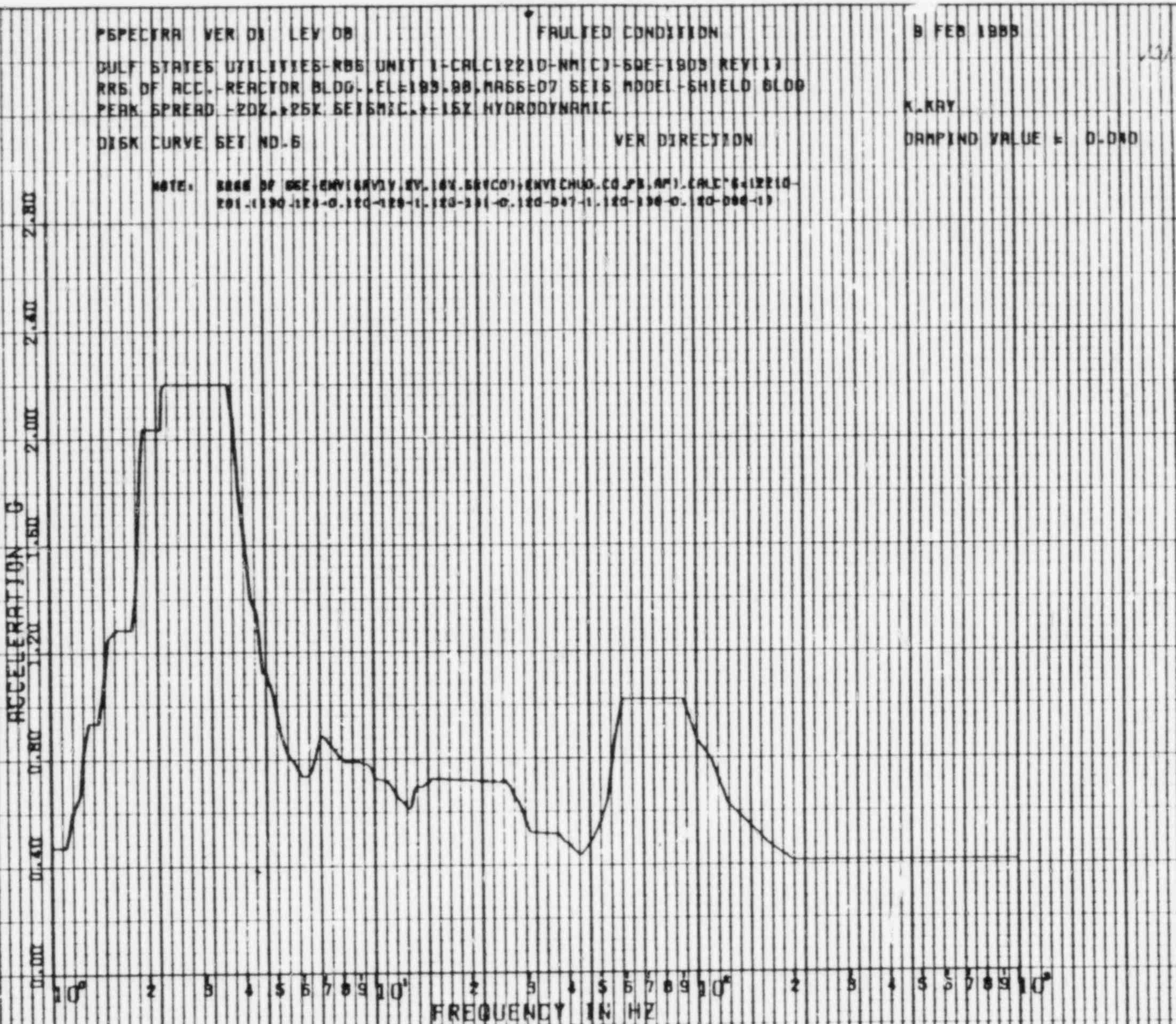
REF 4

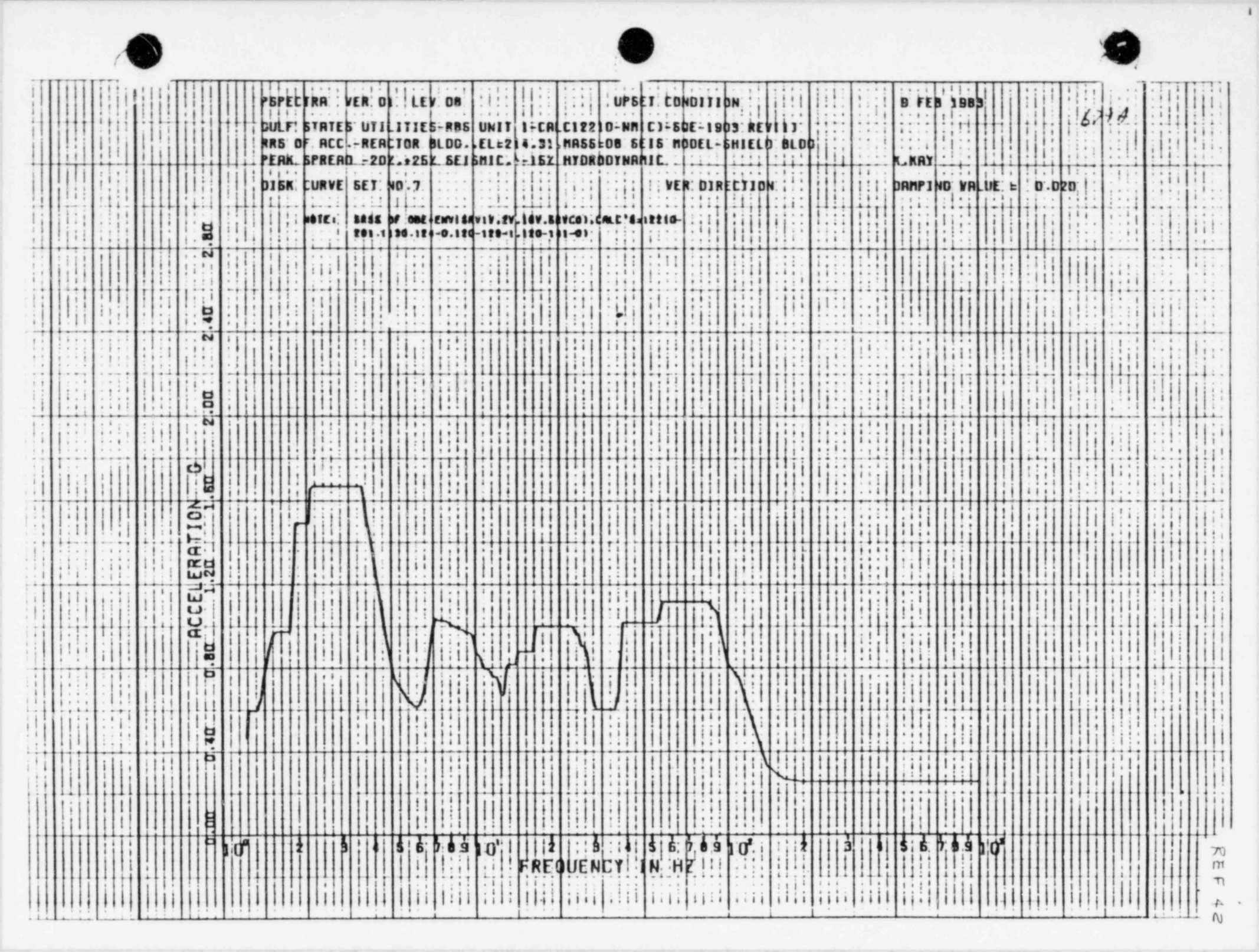

SPECTRA VER DI LEV DB
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RBS OF ACC.-REACTOR BLDG.-EL=133.00,MASS=07 SEIS MODEL-SHIELD BLDG
PEAK SPREAD =20%,+25% SEISMIC,+=15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.6
VER DIRECTION
DAMPING VALUE = 0.050
NOTE: SPEC OF SSE(ENV(ERV17,ZV,16V,BSTC8)+ENV(CHUD,C8,P8,AF),CALC'8=12210-201,1190,124-0,1E0-129-1,1E0-131-0,1E0-047-1,1E0-198-0,1E0-096-1)
ACCELERATION G
2.80
2.40
2.00
1.20
0.80
0.40
0.00
1 SD
FREQUENCY IN HZ


FAULTED CONDITION
9 FEB 1983
K.KAY
DAMPING VALUE = 0.040
HDR DIRECTION
ACCELERATION G
0.000
0.400
0.800
1.200
1.600
2.000
2.400
2.800
FREQUENCY IN HZ

REF 41

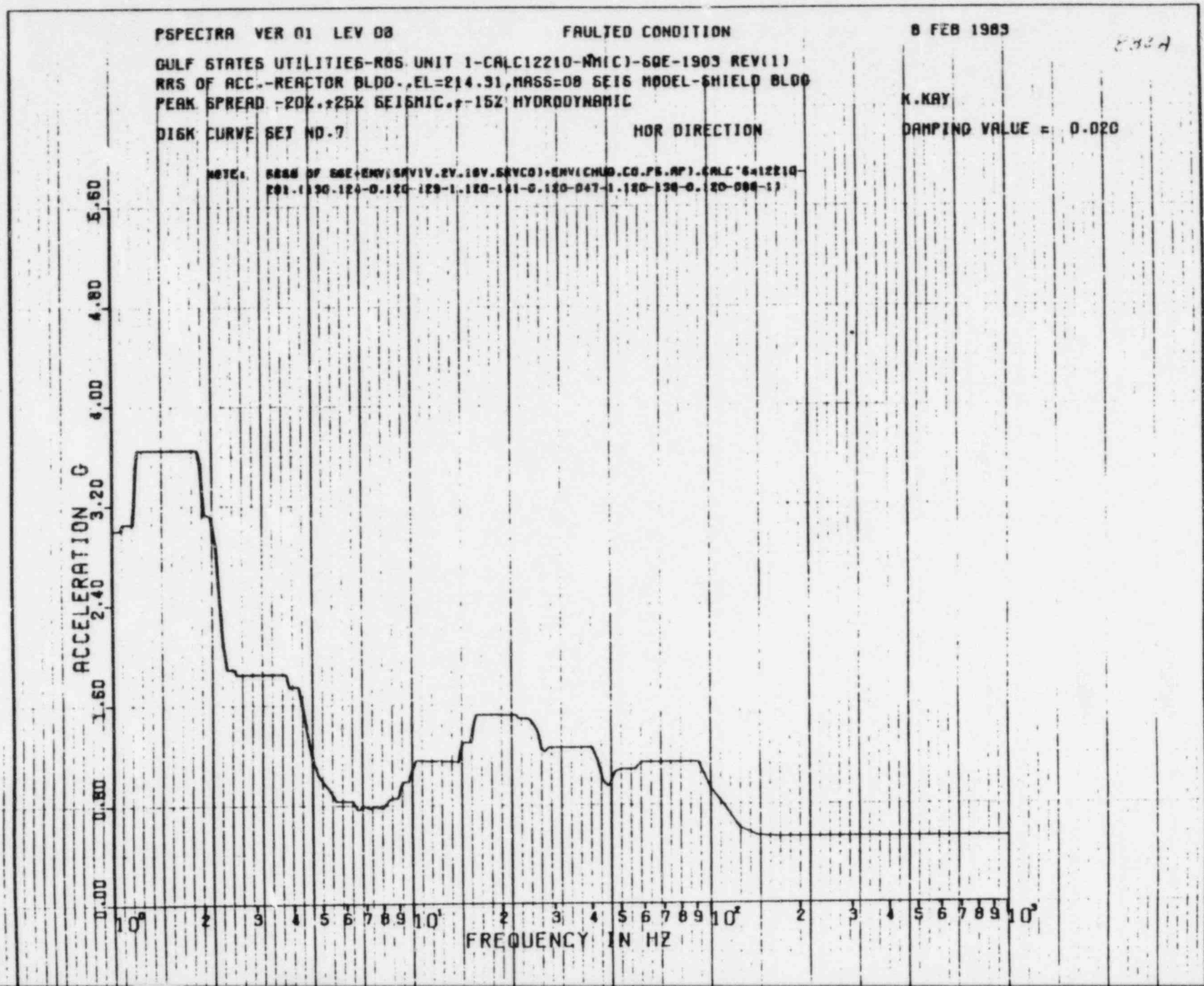
REF 4

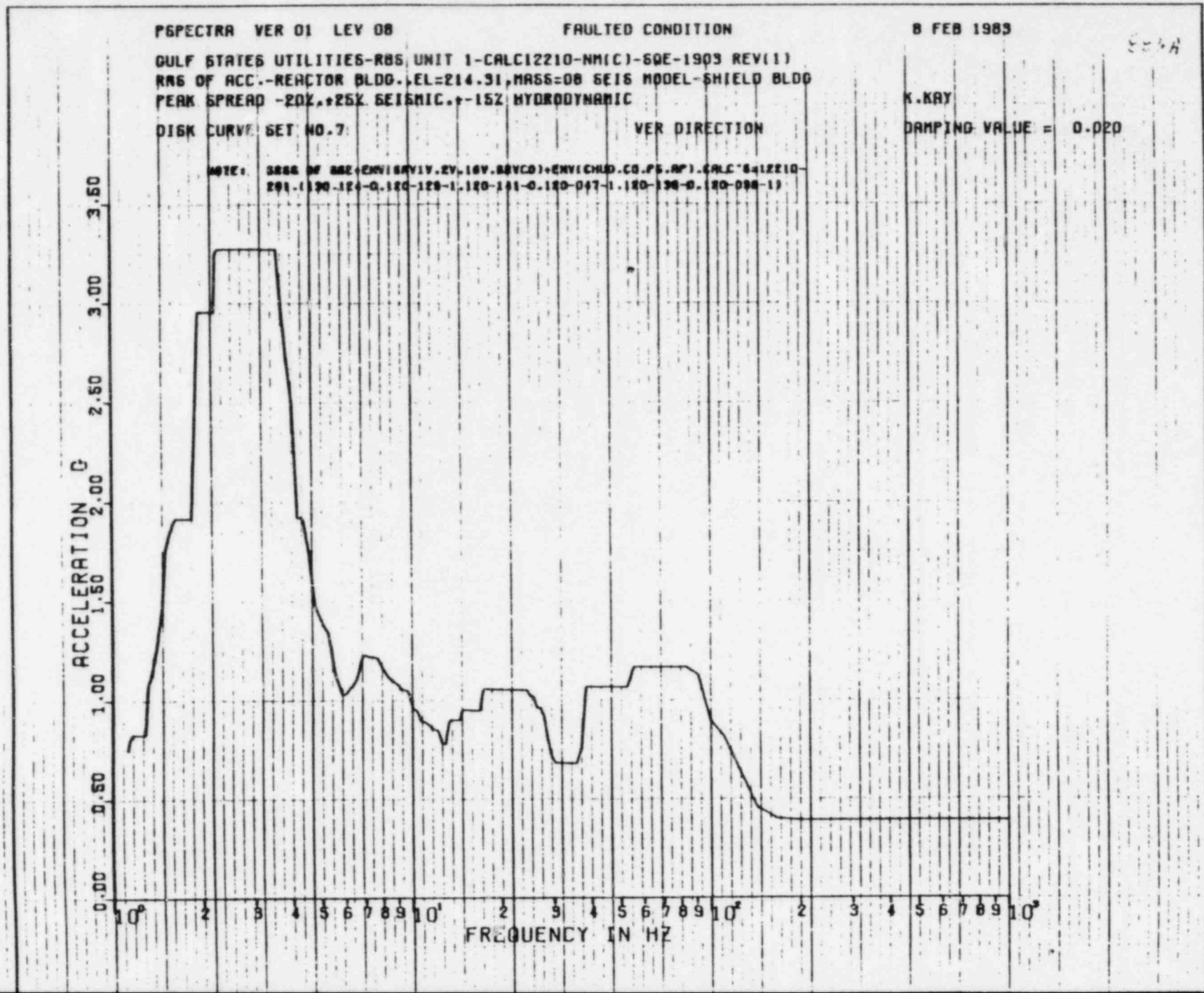

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=183.98,MASS=07 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.6
VER DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
2.80
2.40
2.00
1.60
1.20
0.80
0.40
0.00
FREQUENCY IN HZ

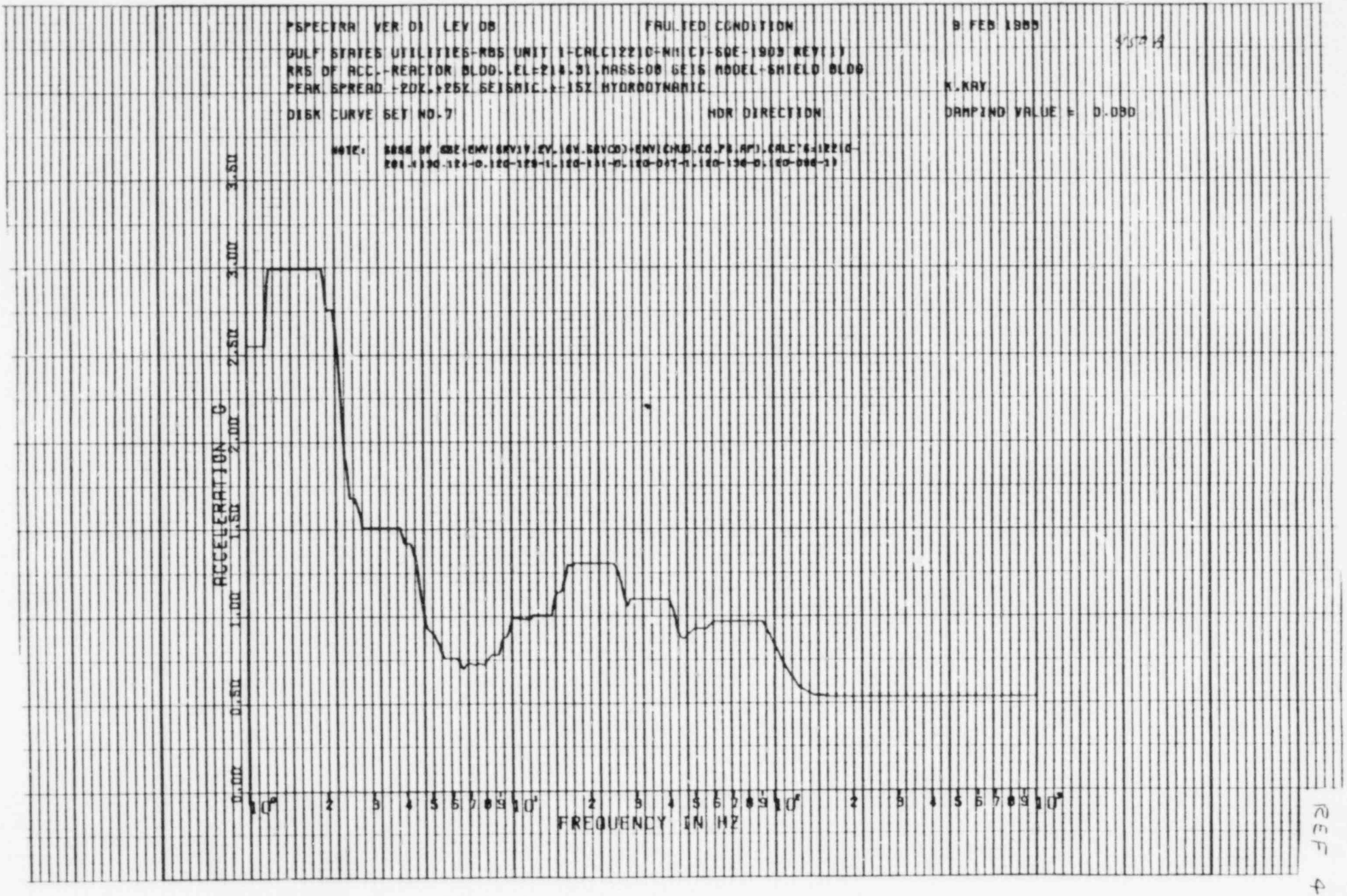

PSPECTRA VER 01 LEV 08 UPSET CONDITION 8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM C)-SQE-1903 REV[1]
RRS OF ACC.-REACTOR BLDG. EL=214.31 MASS=08 SEIS MODEL-SHIELD BLDG
PEAK SPREAD =20Z,+25Z SEISMIC =-15Z HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.7 VER DIRECTION DAMPING VALUE = 0.020
NOTE: BASE OF OBE+ENVISRV1V.ZV.1GV.RBVCO).CALC'S=12210-
201.1)30.12+-0.12C-12B-1.12D-101-0)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ
10⁰ 2 3 4 5 6 7 8 9 10¹ 2 3 4 5 6 7 8 9 10² 2 3 4 5 6 7 8 9 10³

6.7-A

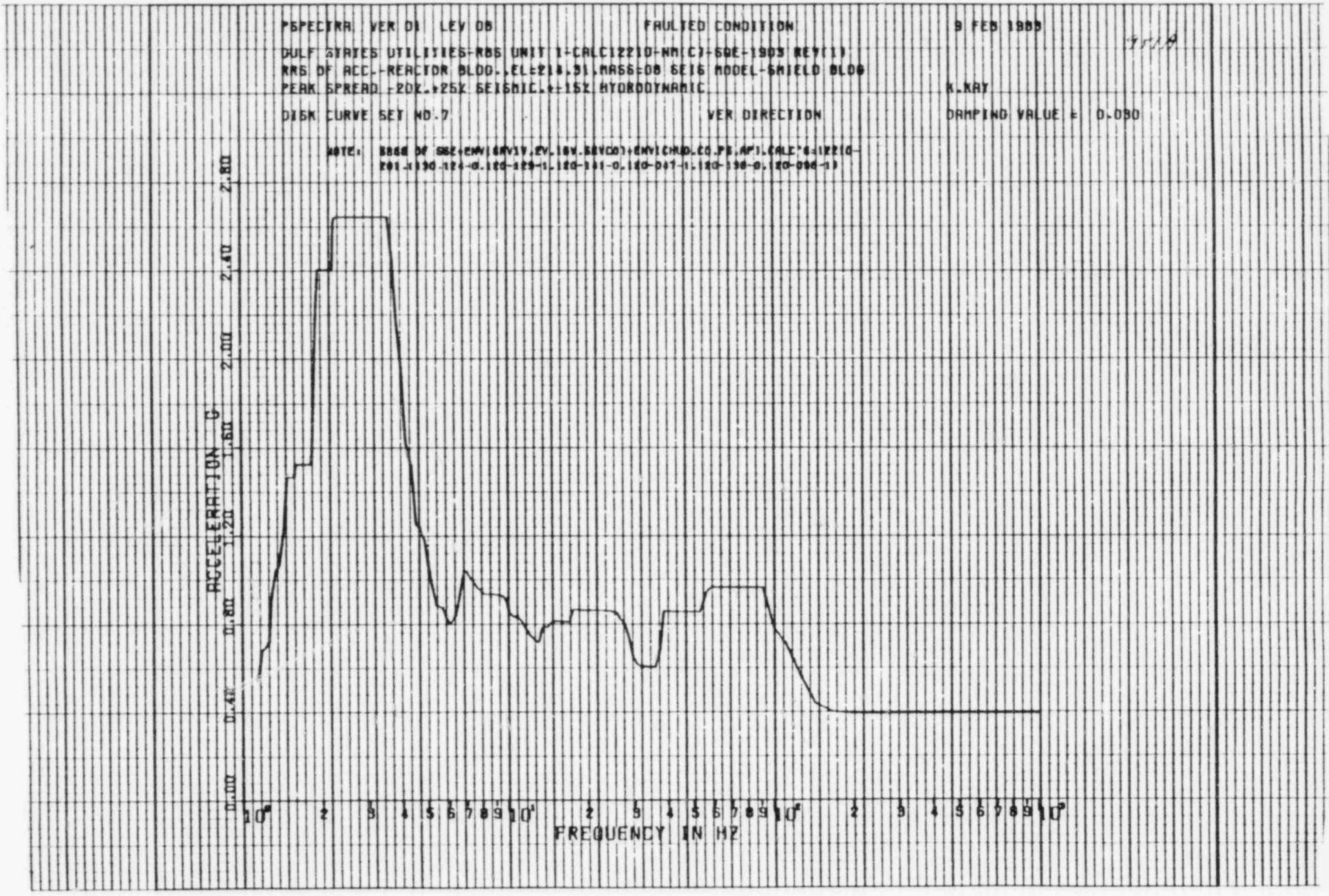
REF 42

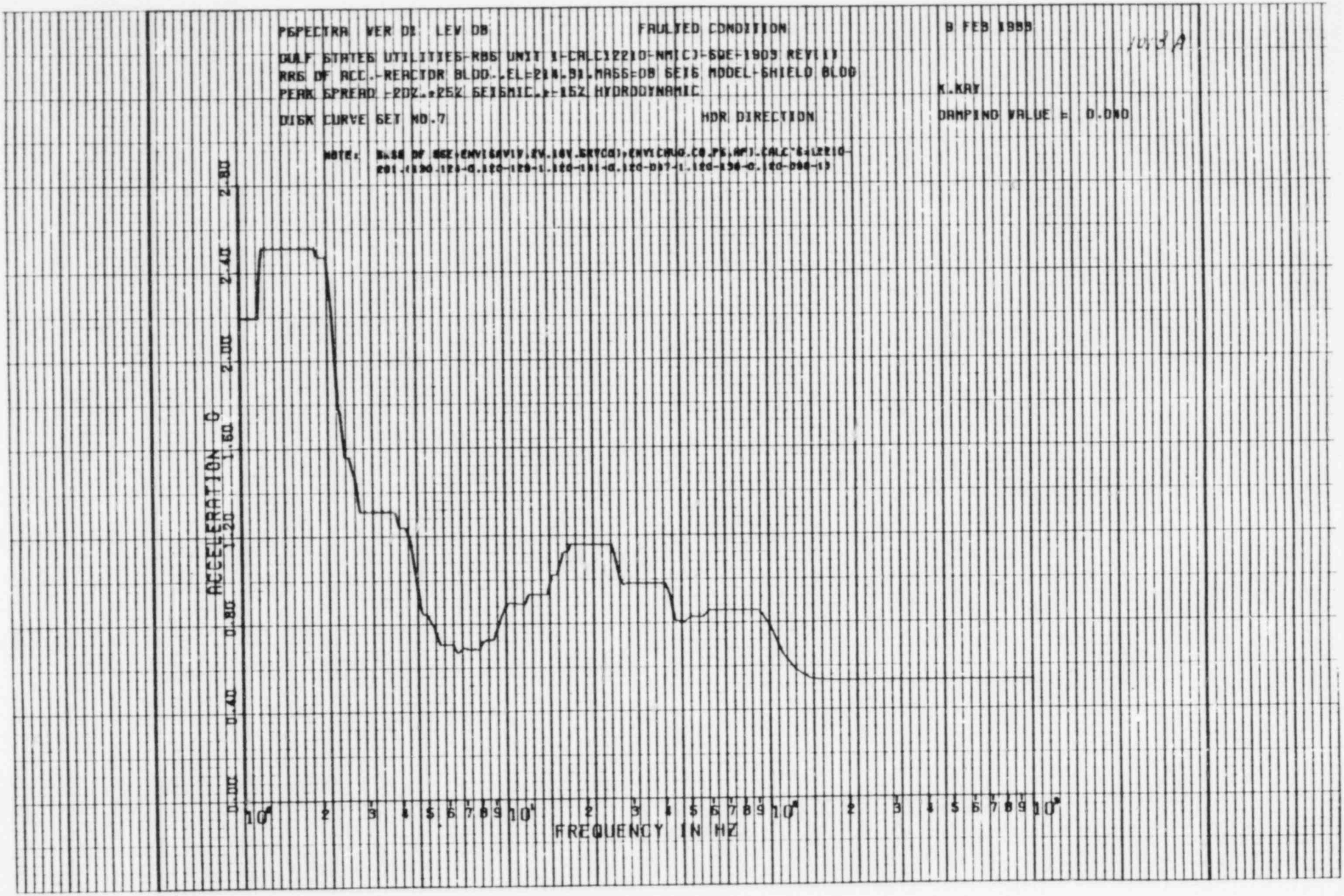

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=214.31,MASS=08 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.7
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: ENVELOPE OF SQE+ENV(SRV1V.2V.3V.SRVCO)+ENV(CHUG.CO.PS.AP).CALC'S=12210-201.(190.124-0.120 129-1.120-141-0.120-047-1.120-130-0.120-006-1)
ACCELERATION G
0.00
0.80
1.60
2.40
3.20
4.00
4.80
5.60
10^0
2
3
4
5
6
7
8
9
10^1
2
3
4
5
6
7
8
9
10^2
2
3
4
5
6
7
8
9
10^3
FREQUENCY IN HZ

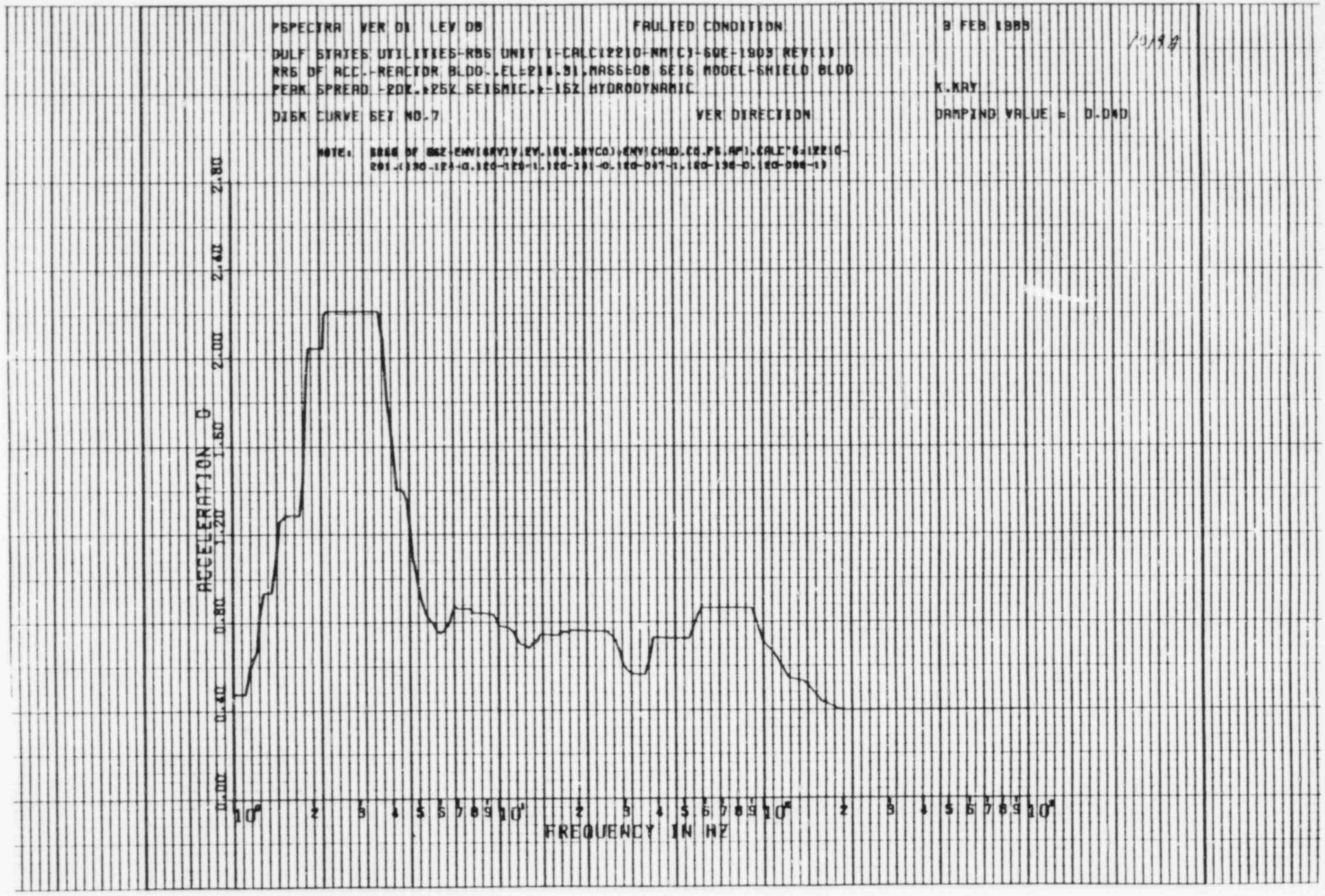

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RMS OF ACC.-REACTOR BLDG.,EL=214.31,MASS=08 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.7
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: SRSS OF SSE(ENV(SRV1V.ZV,16V.SRVCO)+ENV(CHUO.CO.PS.AP).CALC'S+12210-291.(130.124-0.120-128-1.120-141-0.120-047-1.120-136-0.120-098-1)
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
FREQUENCY IN HZ

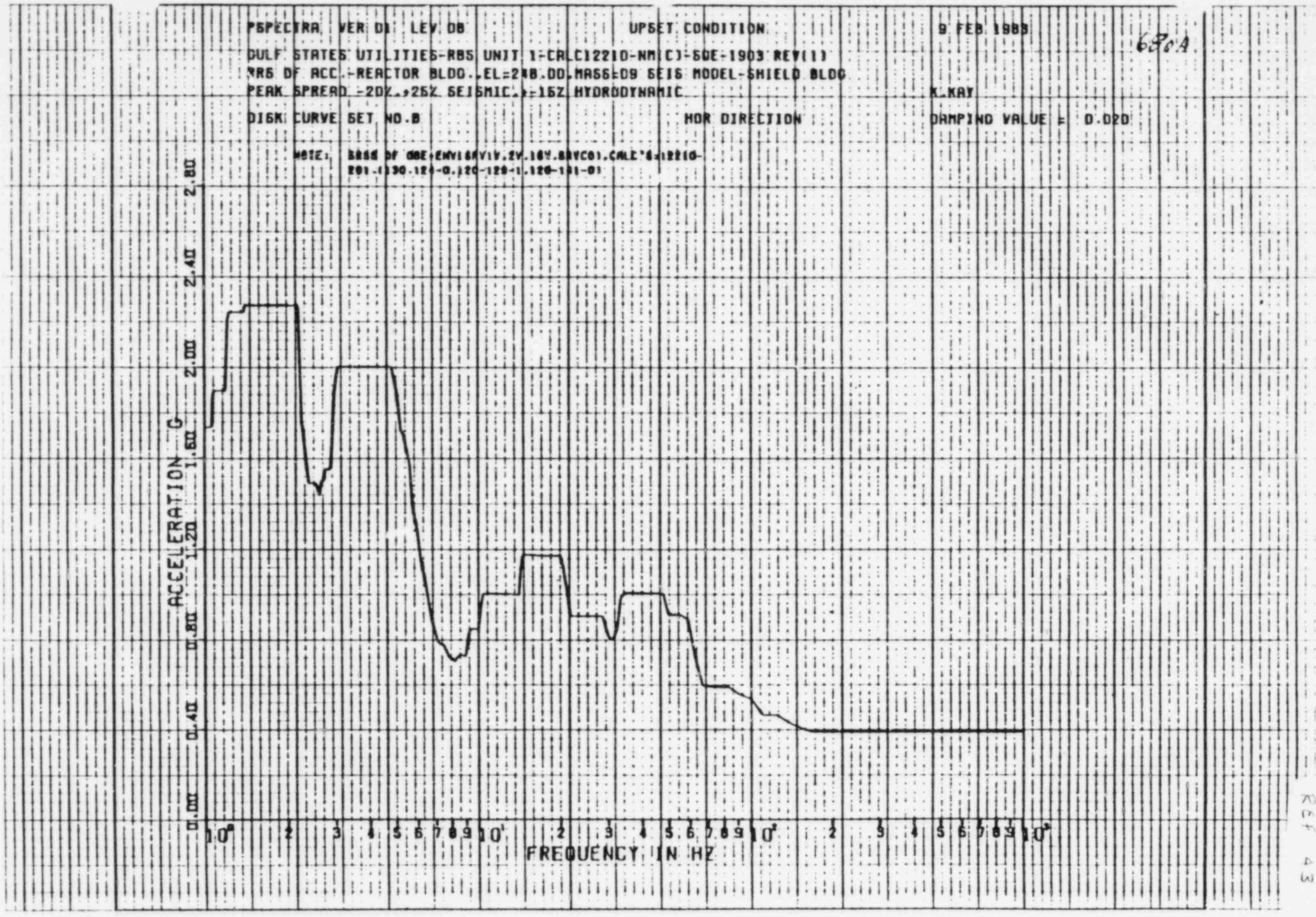

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMC)-SQE-1903 REV(1)
RMS OF ACC.-REACTOR BLDG.-EL=218.31,MASS=08 SEIS MODEL=SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.7
HOR DIRECTION
DAMPING VALUE = 0.030
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ

REF 42


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RMS OF ACC.-REACTOR BLDG.,EL=218.51,MASS=08 SEIS MODEL-SHIELD BLDG
PEAK SPREAD +20%-+25% SEISMIC,+-15% HYDRODYNAMIC
X,KAY
DISK CURVE SET NO.7
VER DIRECTION
DAMPING VALUE = 0.080
NOTE: BASED OF SSE+ENV(SRV1V,EV,1SV,SSVCO)+ENV(CRHD,CO,PS,AP),CALC'S-(1221G-201,1190,124-0,1EG-129-1,1EG-131-0,1EG-047-1,1EG-198-0,1EG-096-1)
ACCELERATION G
0.000
0.40
0.80
1.20
1.60
2.00
2.40
2.80
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
FREQUENCY IN HZ


SPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-GDE-1903 REV(1)
RBS OF ACC.-REACTOR BLDG.,EL=214.33',MASS=DB SEIS MODEL-SHIELD BLDG
PEAK SPREAD =20Z,=25Z SEISMIC,=15Z HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.7
HOR DIRECTION
DAMPING VALUE = 0.040
NOTE: B.SS OF SSE,ENVIGRV(V,EV.10V.SRTCO),ENVICRUG.CO.PS.AFJ.CALC'G+(2210-201.(190.120-0.120-120-1.120-131-0.120-037-1.120-150-0.120-090-1)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ


PSPECTRA VER 01 LEV 08 FAULTED CONDITION 8 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC:12210-NM(C)-GQE-1903 REV(1)
RBS OF ACC.-REACTOR BLDG.-EL=218.31,MASS=08 SEIS MODEL-SHIELD BLDG
PEAK SPREAD =20%,=25% SEISMIC,=15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.-7 VER DIRECTION DAMPING VALUE = 0.040
NOTE: BASED OF GSZ-ENV(SRV1V.EV.1SV.SRYCO)+ENV(CHUD.CO.PS.AP1.CALC"8=12210-201.(190-124-0.12E-125-1.12E-191-0.12E-041-1,12E-196-0.12E-006-1)
ACCELERATION G
2.80
2.40
2.00
1.60
1.20
0.80
0.40
0.00
FREQUENCY IN HZ


SPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CRLC12210-NMC)-SQE-1903 REV(1)
RB OF ACC.-REACTOR BLDG.,EL=248.00,MASS=09 SEIS MODEL-SHIELD BLDG
PEAK SPREAD =20%,+25% SEISMIC,+=15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.8
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: BASE OF GSE+ENVIRONV1V.2V.16Y.8RYC01.CALC'S=12210-
201-(130.12+-0.12C-12B+1.12B-131-01
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
FREQUENCY IN HZ

63A

REF 43

REF 43

PSPECTRA VER 01 LEV 08 UPSET CONDITION 9 FEB 1988

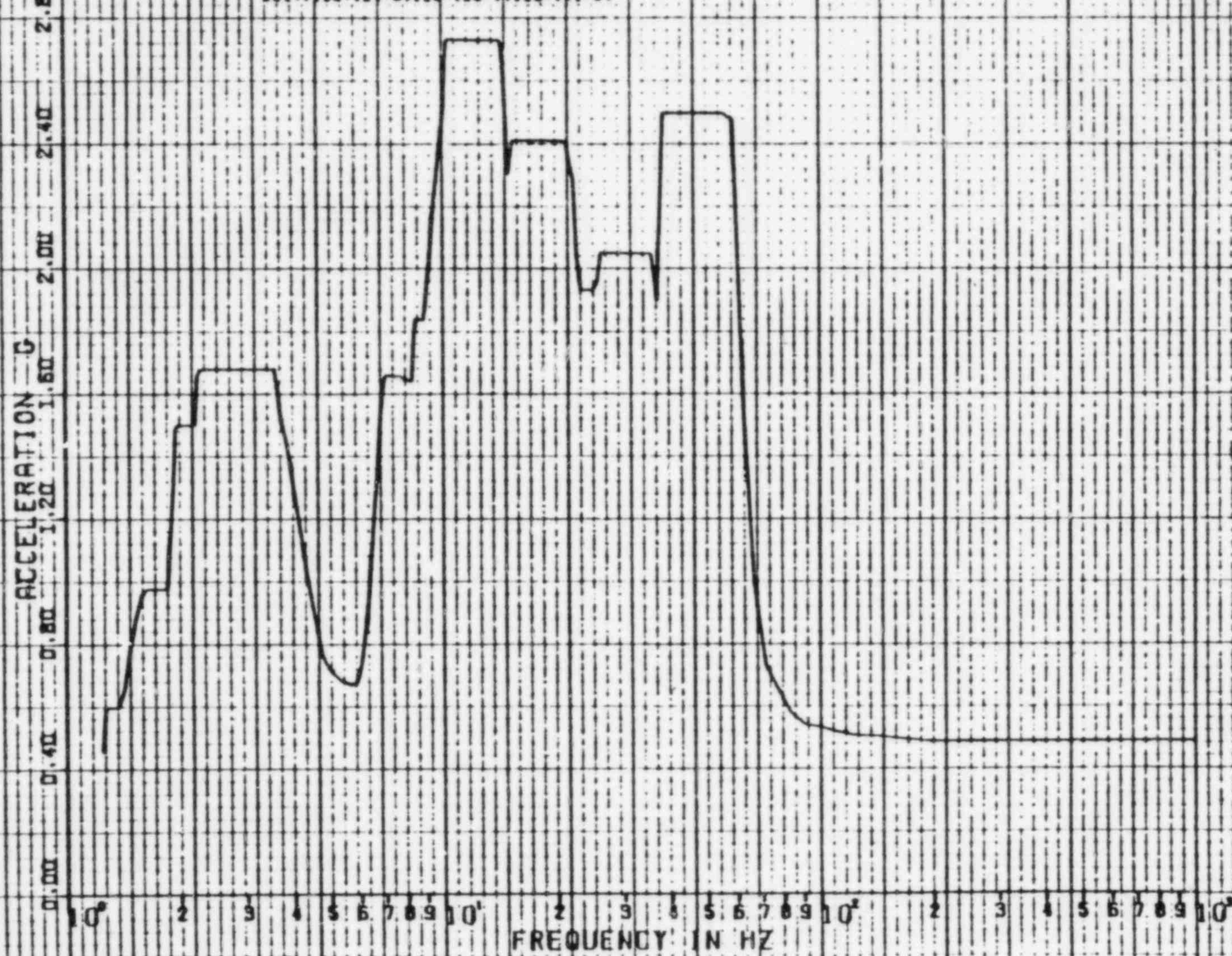
GULF STATES UTILITIES-RBS UNIT 1-CALC(12210-NM(C)-SDE-1909 REV(1)

RRS OF ACC.-REACTOR BLDG.,EL=248.00,MASS=09 SEIS MODEL-SHIELD BLDG

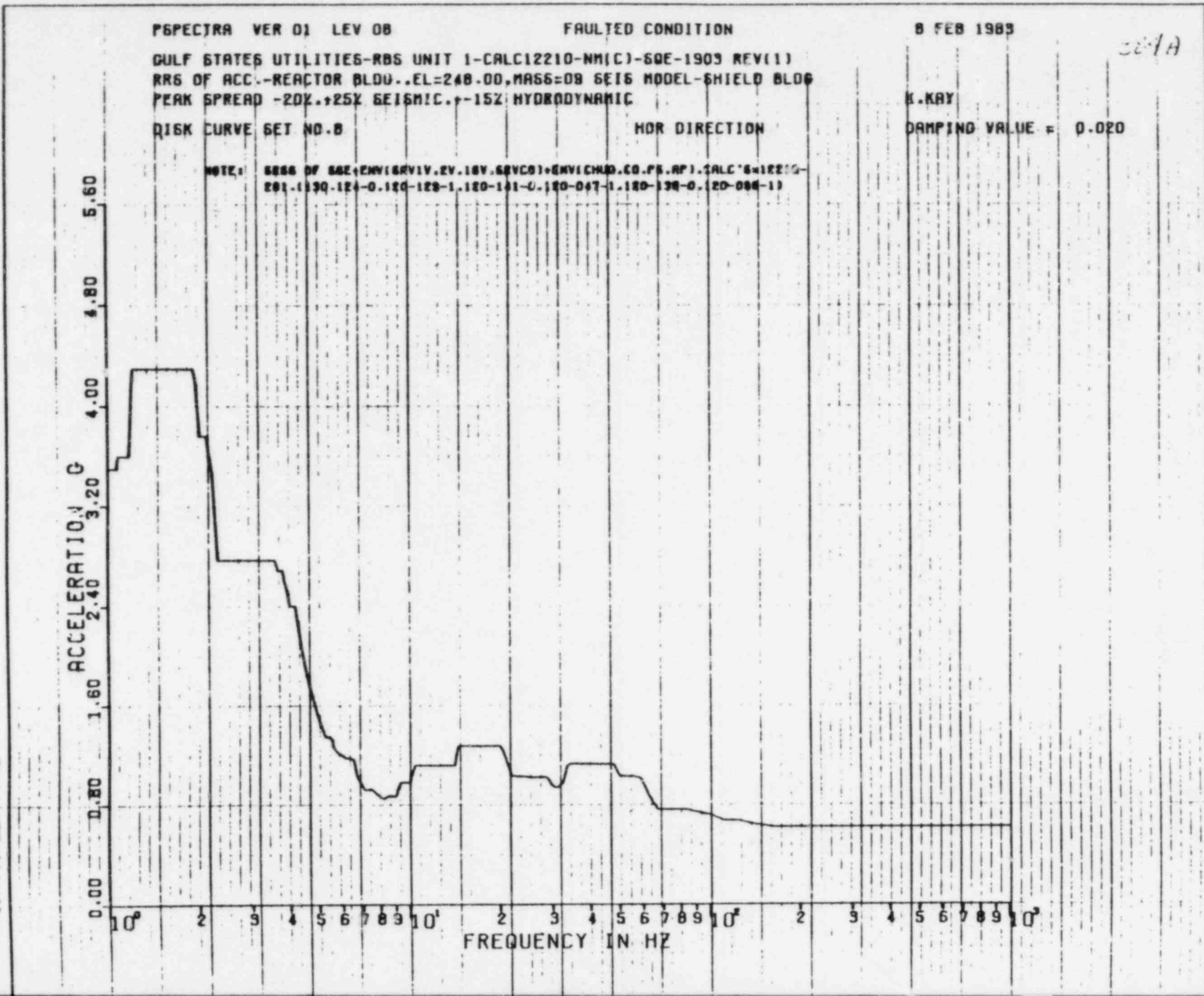
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC K.KAY

DISK CURVE SET NO.8 VER DIRECTION DAMPING VALUE = 0.020

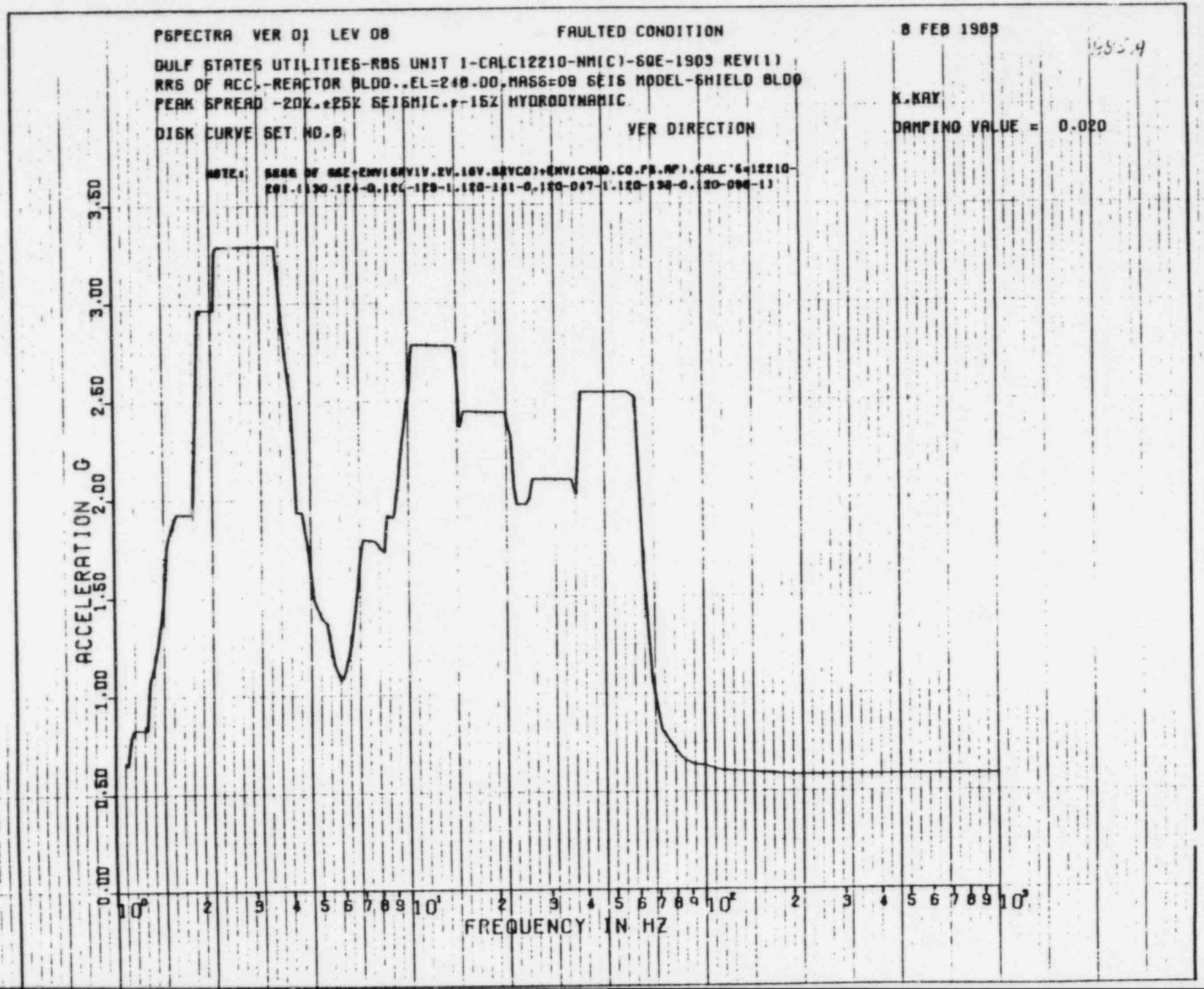
NOTE: BASE OF OBE+2MVISRV(V,2V,10V,RAYC0),CALC'S:12210-
201.1130.124-0.120-129-1.120-101-01



REF 43



PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG..EL=248.00,MASS=09 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%.+25% SEISMIC.+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.8
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE:
ACCELERATION G
0.00
0.80
1.60
2.40
3.20
4.00
4.80
5.60
FREQUENCY IN HZ


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG..EL=248.00,MASS=09 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.8
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: SSRS OF SSE+ENV(SRV1V.2V.1SV.SSVCO)+ENV(CHUO.CO.FB.AP).CALC'S+12210-
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ

REF 43

PSPECTRA VER 01 LEV 08 FAULTED CONDITION 9 FEB 1985 9/12/A

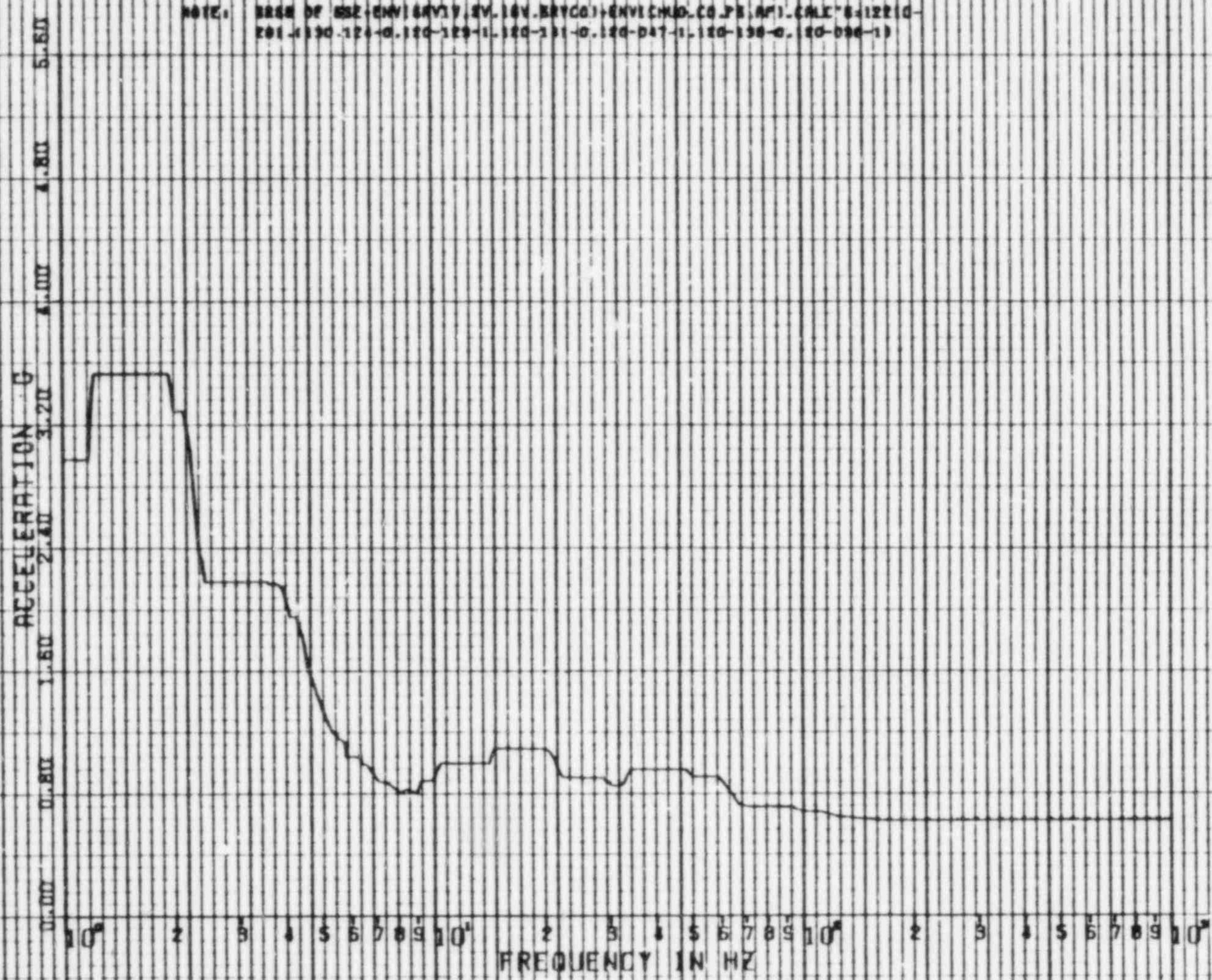
GULF STATES UTILITIES-RBS UNIT 1-CALC(12210-NM(C)-SQE-1905 REV(1))

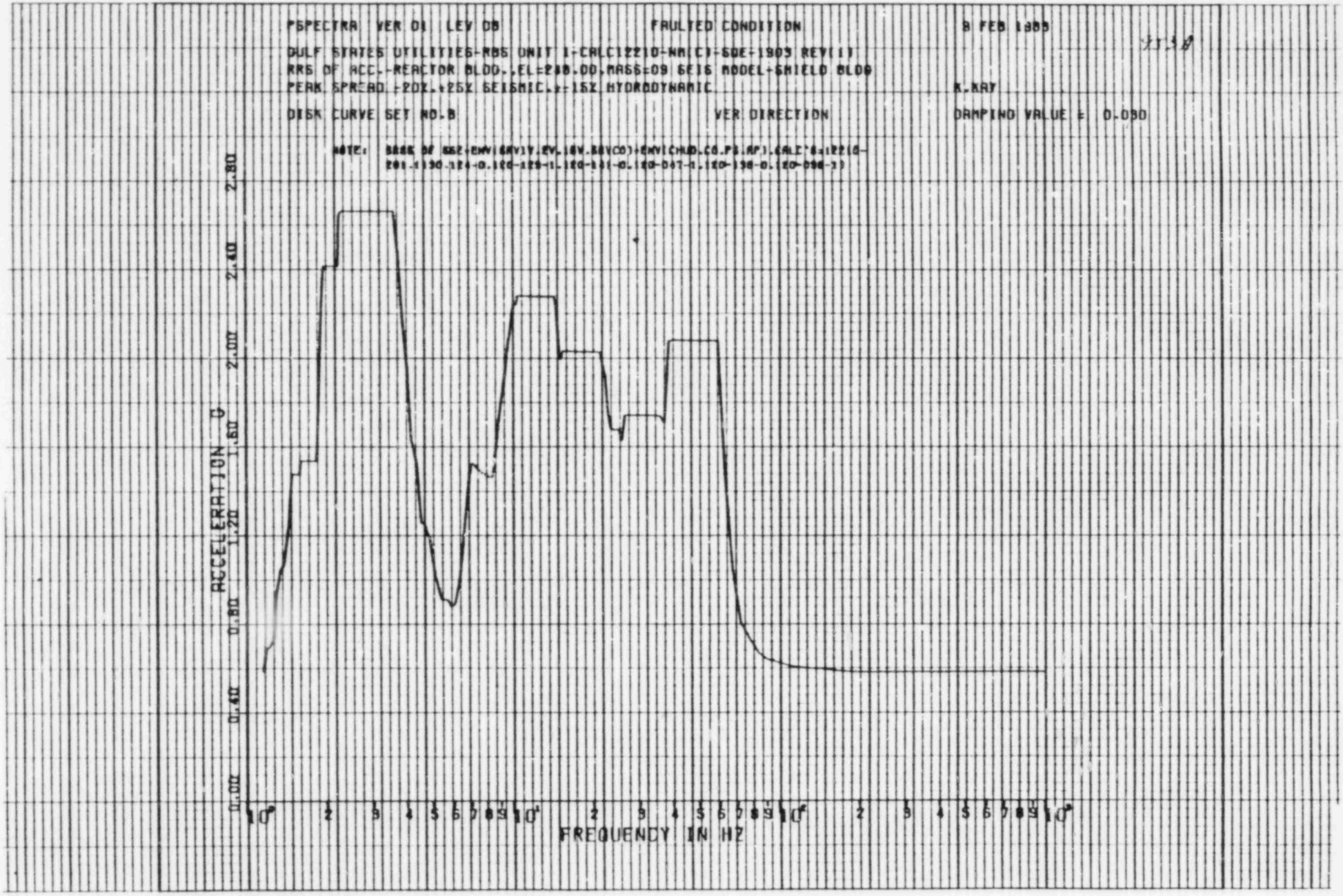
RRS OF ACC.-REACTOR BLDG.,EL=288.00,MASS=09 SEIS MODEL-SHIELD BLDG

PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC K.KAY

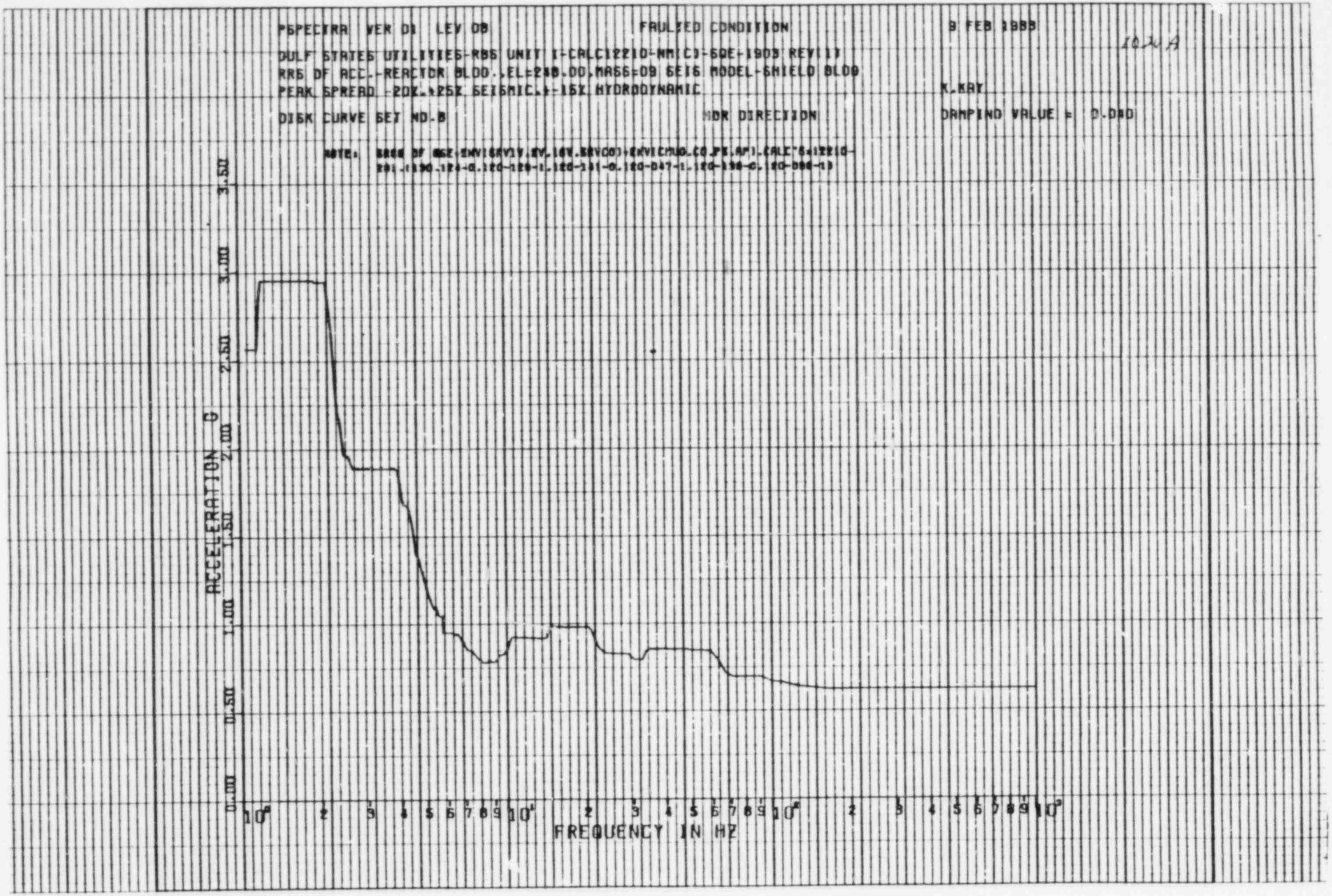
DISK CURVE SET NO.8 HOR DIRECTION DAMPING VALUE = 0.080

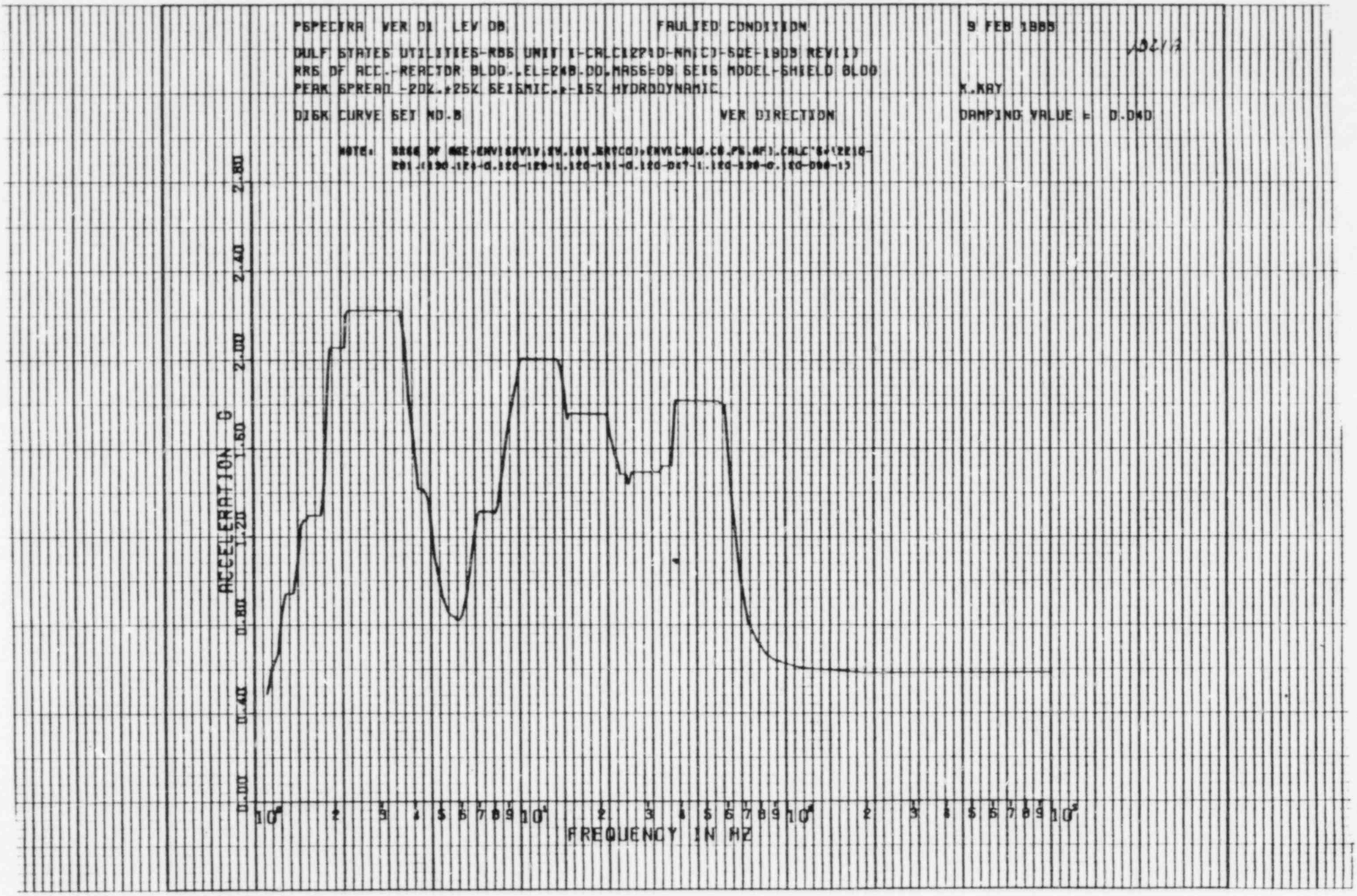
NOTE: BASE OF SSE-ENV(SRV17,SV,16V,BRYCO)+ENV(CHUG,CO,PS,AP),CALC"S:12210-
201-4130-124-0,120-129-1,120-131-0,120-047-1,120-130-0,120-096-1)




PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=238.00,MASS=09 SEIS MODEL=SHIELD BLDG
PEAK SPREAD +20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.8
VER DIRECTION
DAMPING VALUE = 0.030
NOTE: BASE OF RRS+ENV(SRV1Y,EV,1EV,SEV(C0)+ENV(CHUD,C0,P1,AF),CALC'S=12210-201-1)30.124-0.12E-129-1.1E0-11(-0.1E0-067-1.1E0-138-0.1E0-096-1)
ACCELERATION g
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

REF 43


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1988
102A
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=240.00,MASS=09 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.8
NDR DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ


PSPECTRA VER 01 LEV 08 FAULTED CONDITION 9 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12P1D-NM(C)-SQE-1B08 REV(1)
RBS OF ACC.-REACTOR BLDG. EL=248.00, AZ=90 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
X.KRY
DISK CURVE SET NO.8 VER DIRECTION DAMPING VALUE = 0.040
NOTE: RRBS OF AZ+ENV(SRV1V,SM.10Y,SRT(2))+ENV(CAUG.CB.PS.AF).CALC'S+(2210-201.(190.120+0.120-129+1.120-131-0.120-047-1.120-130-0.120-090-1)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

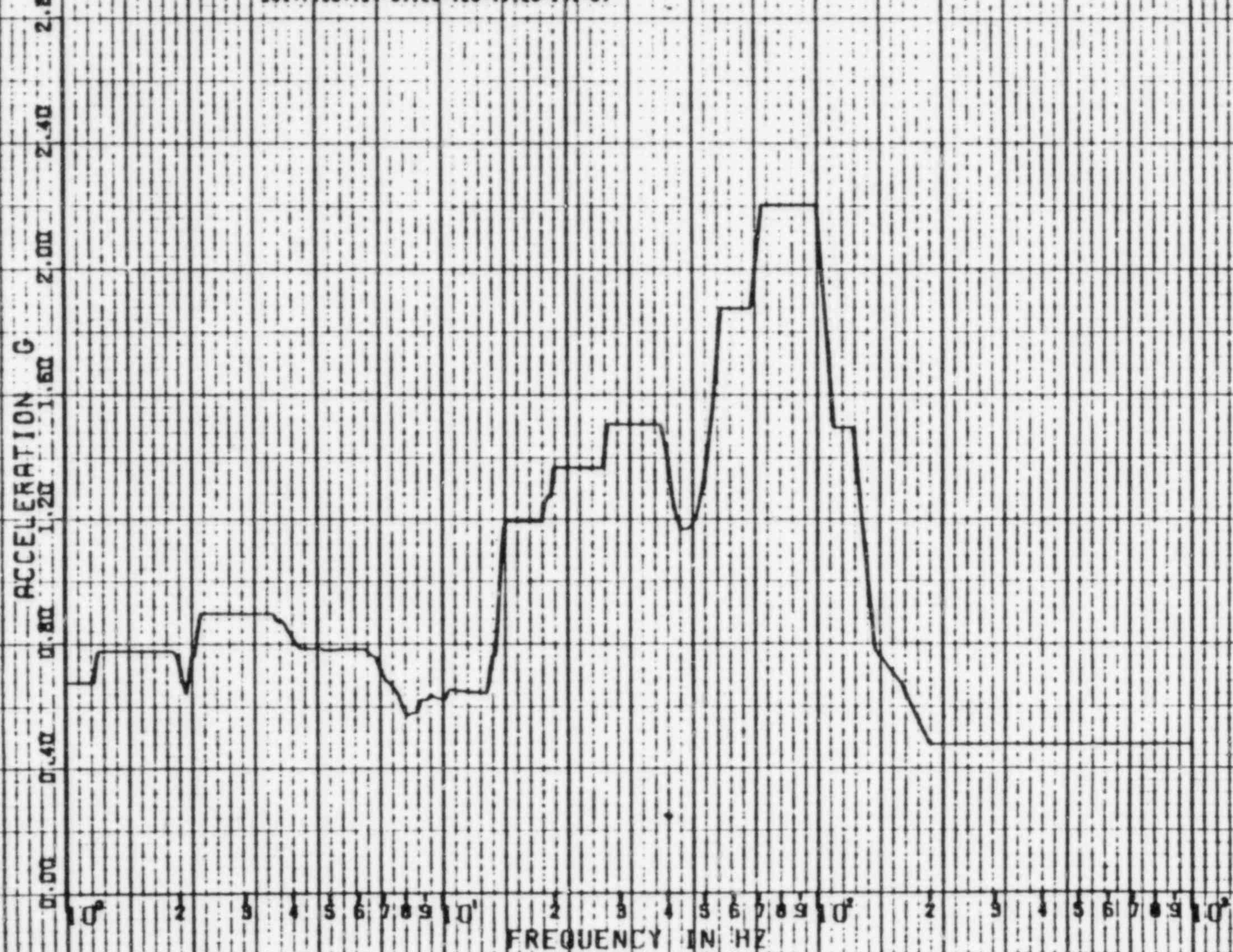
REF 44

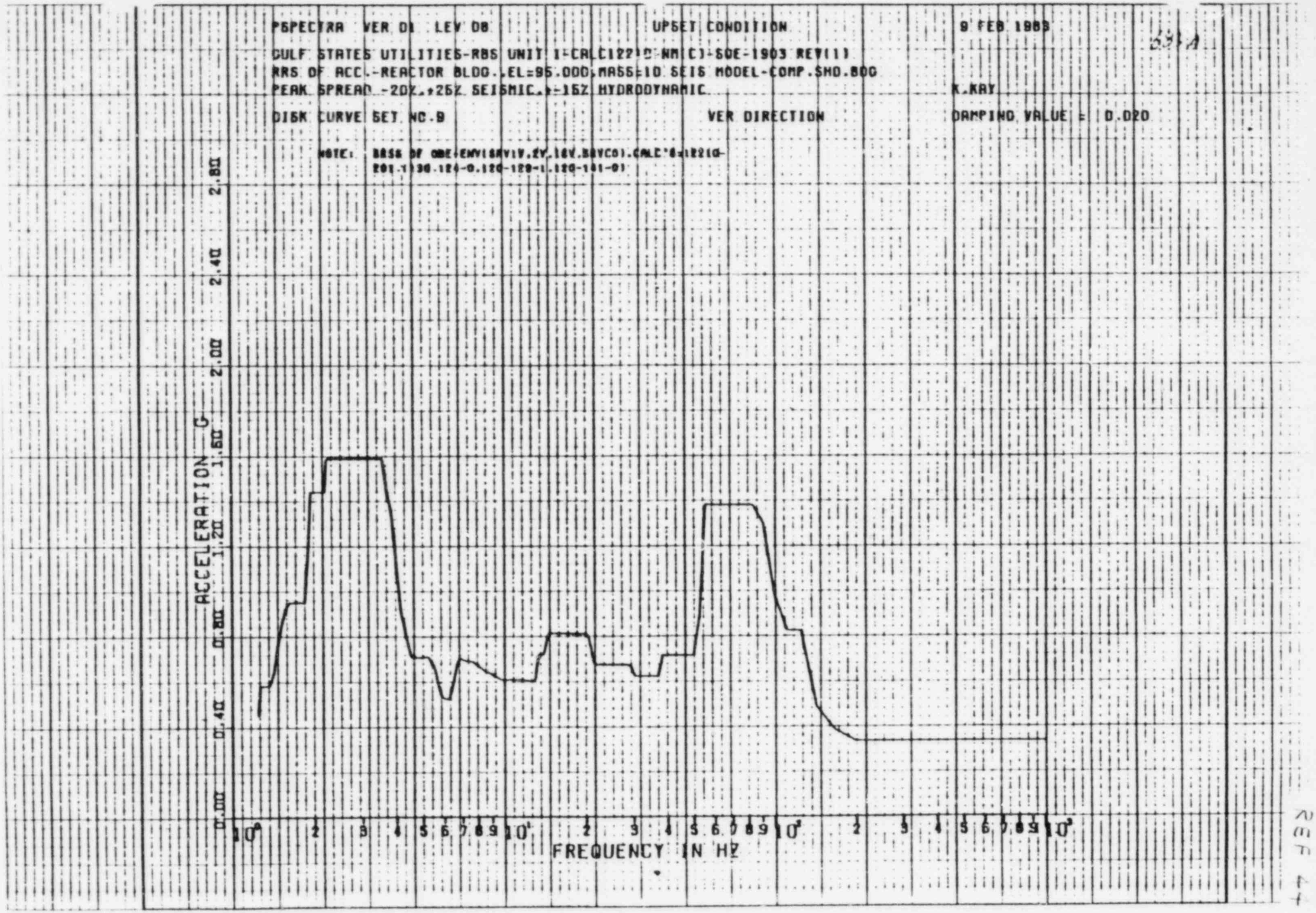
PSPECTRA VER 01 LEV 08 UPSET CONDITION 9 FEB 1988

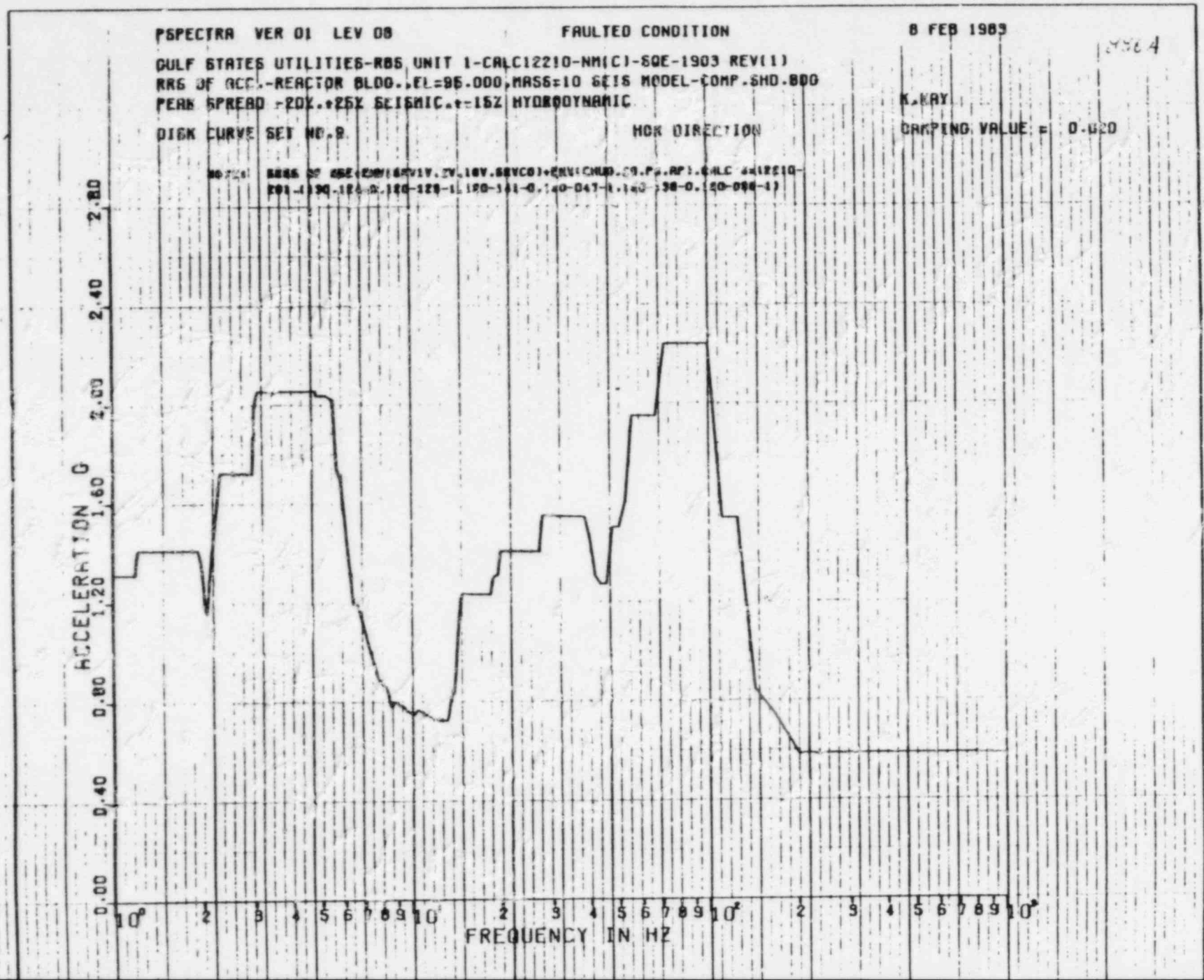
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-WM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG., EL=95.000, MASS=10 SEIS MODEL-COMP.SHD.BOO
PEAK SPREAD -20%,+25% SEISMIC, +-15% HYDRODYNAMIC K.KAY

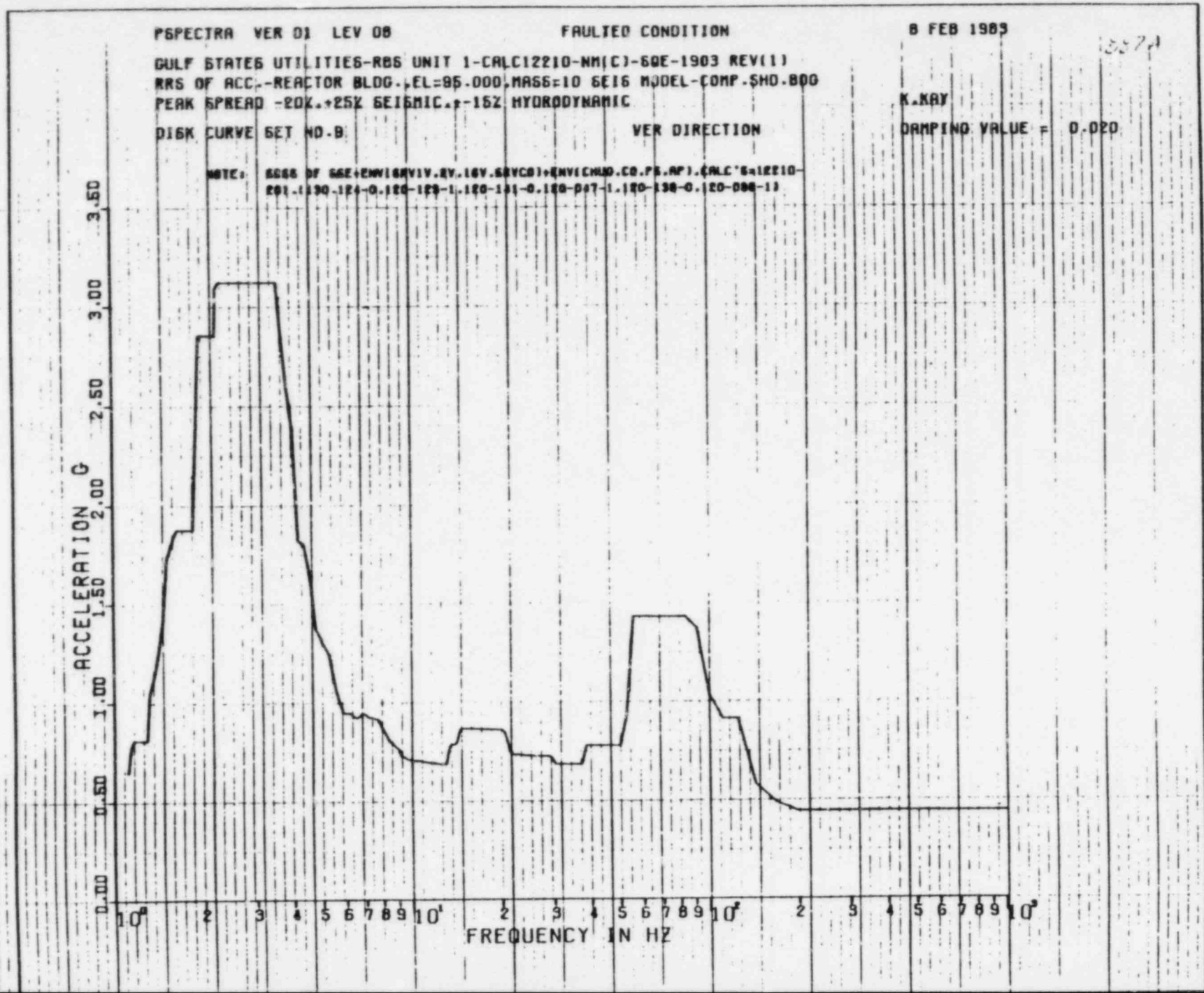
DISK CURVE SET NO.9 HOR DIRECTION DAMPING VALUE = 0.020

NOTE: SRSS OF OBE(ENV(SRV1V,2V,1EV,SRVCO),CALC'S-12210-
201.1120.124-0.120-128-1,120-141-0)

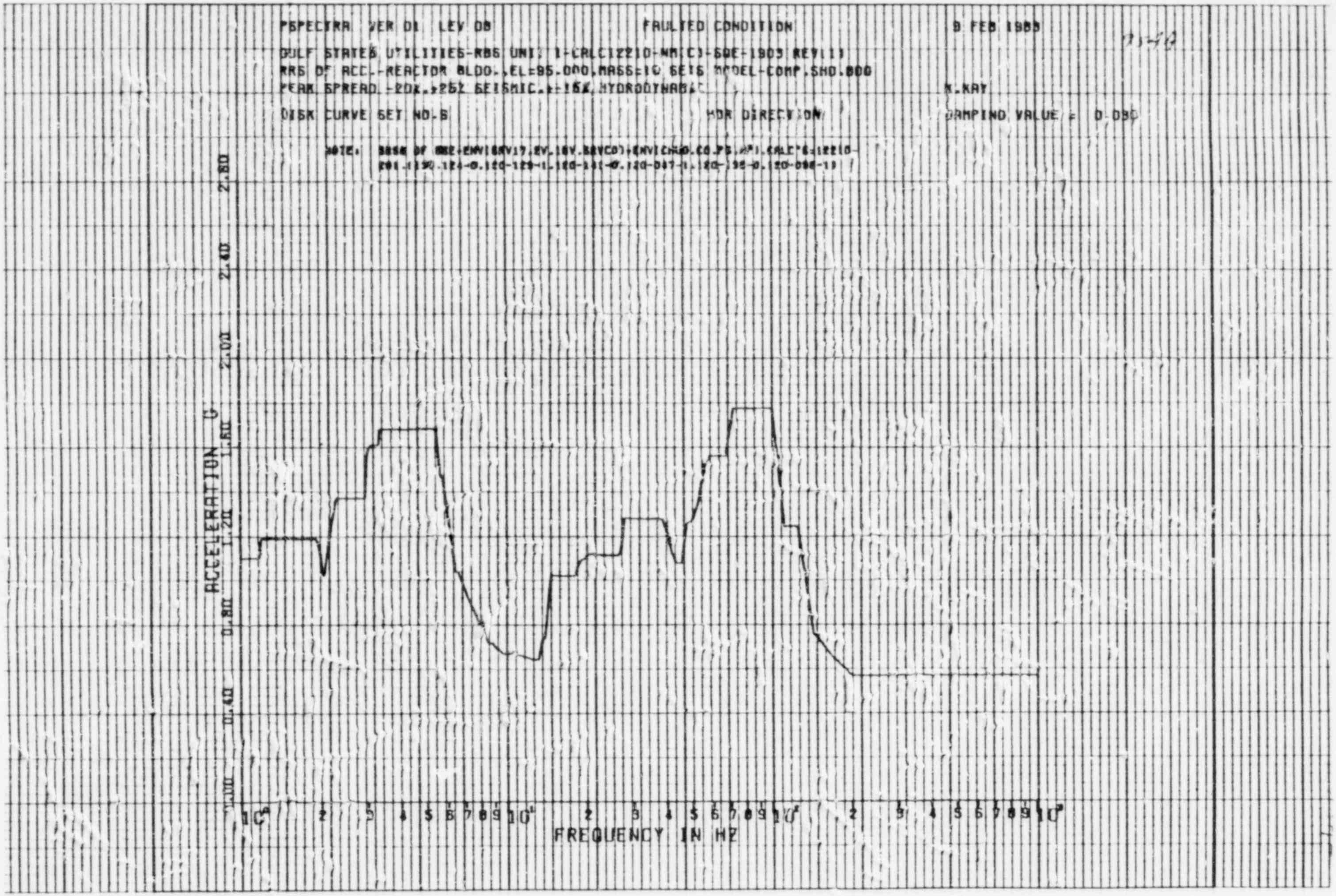



SPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210.NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=95.000,MASS=10 SEIS MODEL-COMP.SHD.BDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.8
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: BASE OF CBE+ENVISRV1V,2V,16V,BAYC01,CALC'8=12210-201.1)30.124-0.12G-12B-1.12G-141-01
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

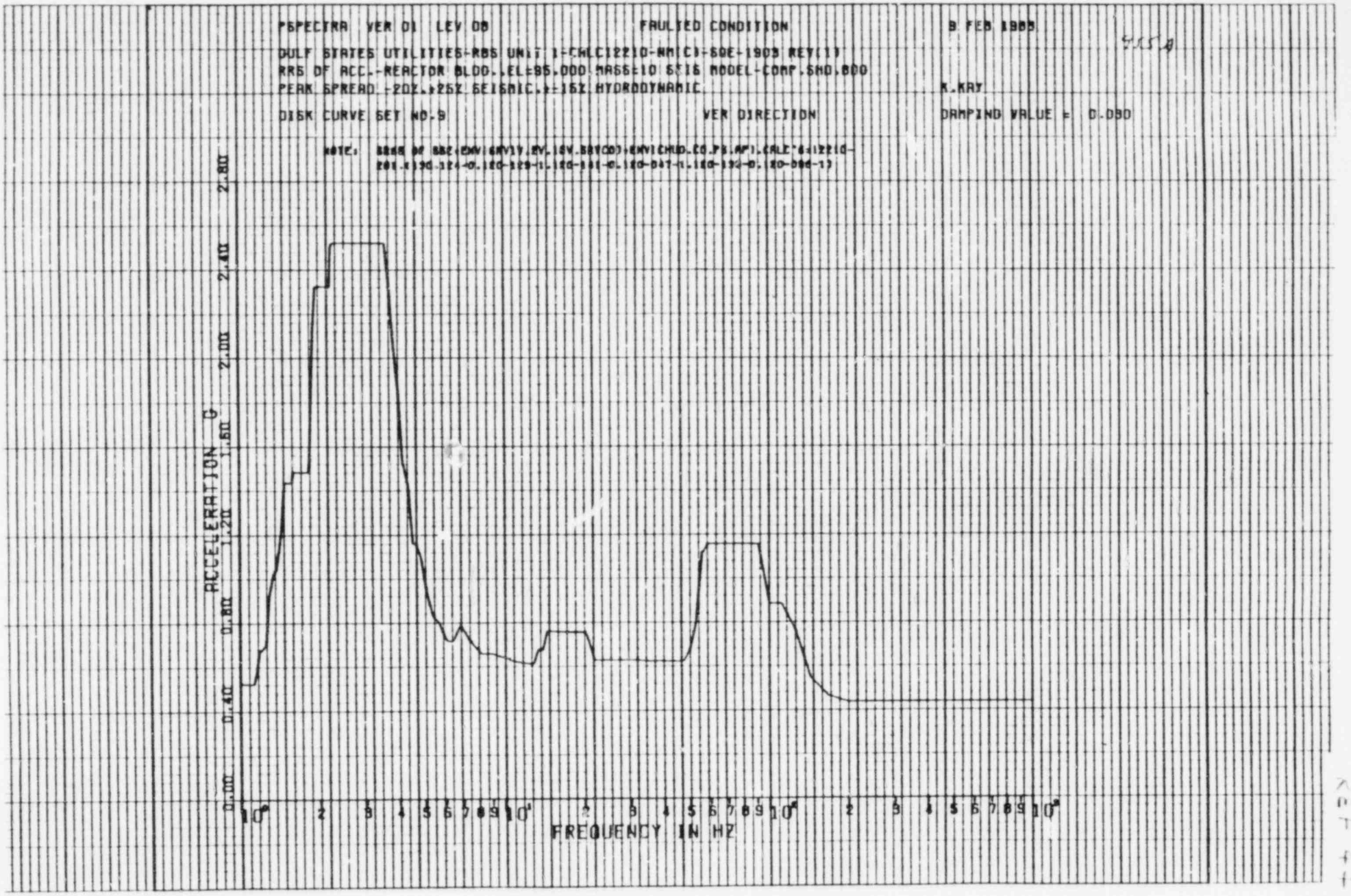

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RBS BF ACC.-REACTOR BLDG.,EL=95.000,MASS=10 SEIS MODEL-COMP.SHD.BDG
PERR SPREAD =20%,+25% SEISMIC,+=15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.8
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-GSE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG., EL=95.000, MASS=10 SEIS MODEL-COMP.SMO.BDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.B
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: SRSS OF SSE+ENV(SRV1V.RV.1RV.SRVCB)+ENV(CHUD.CB.PS.AP).CALC'S=12210-
ACCELERATION G
FREQUENCY IN HZ

REF 44



PSPECTRA VER 01 LEV 00
FAULTED CONDITION
9 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SDE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=95.000,MASS=10 SEIS MODEL-COMP.SHD.000
K.KAY
DISK CURVE SET NO.6
HOR DIRECTION
DAMPING VALUE = 0.030
ACCELERATION G
2.80
2.40
2.00
1.60
1.20
0.80
0.40
0.00
FREQUENCY IN HZ


SPECTRA VER 01 LEV 00
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CHLC12210-AM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=95.000 MASS=10 &216 MODEL-COMP.SHD.BDD
PEAK SPREAD -20Z,+25Z SEISMIC,+-15Z HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.9
VER DIRECTION
DAMPING VALUE = 0.050
NOTE: SRSS OF SSE(ENV(ENV(1V,2V,3V).SSY(DD)+ENV(CHUD.CO.PB.AF).CALC'6=12210-201.X)DC.12+0.1EO-129-1.1EO-101-0.1EO-047-1.1EO-192-0.1EO-006-1)
ACCELERATION G
0.000
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

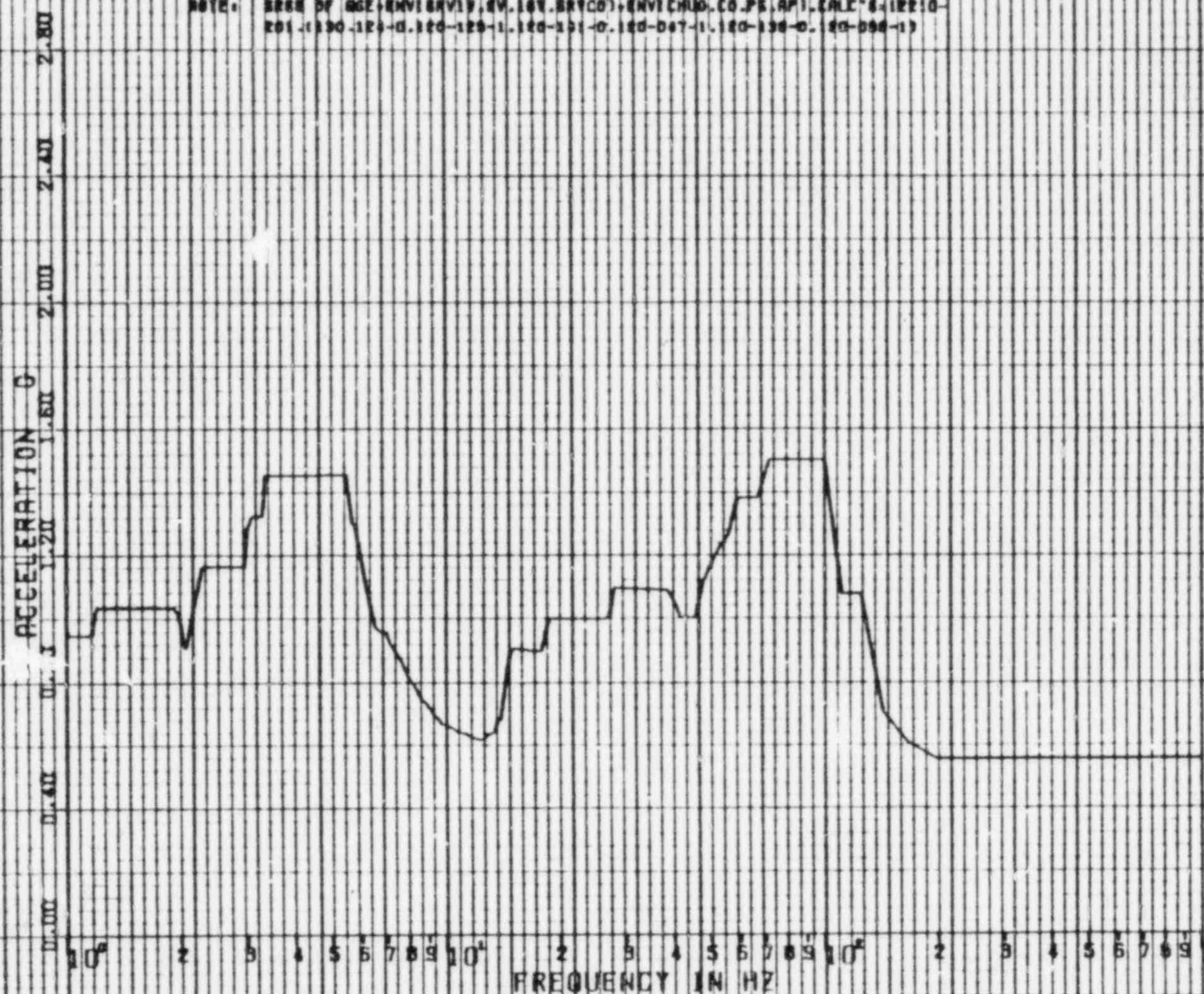
REF 44

PSPECTRA VER 01 LEV 08 FAULTED CONDITION 9 FEB 1988

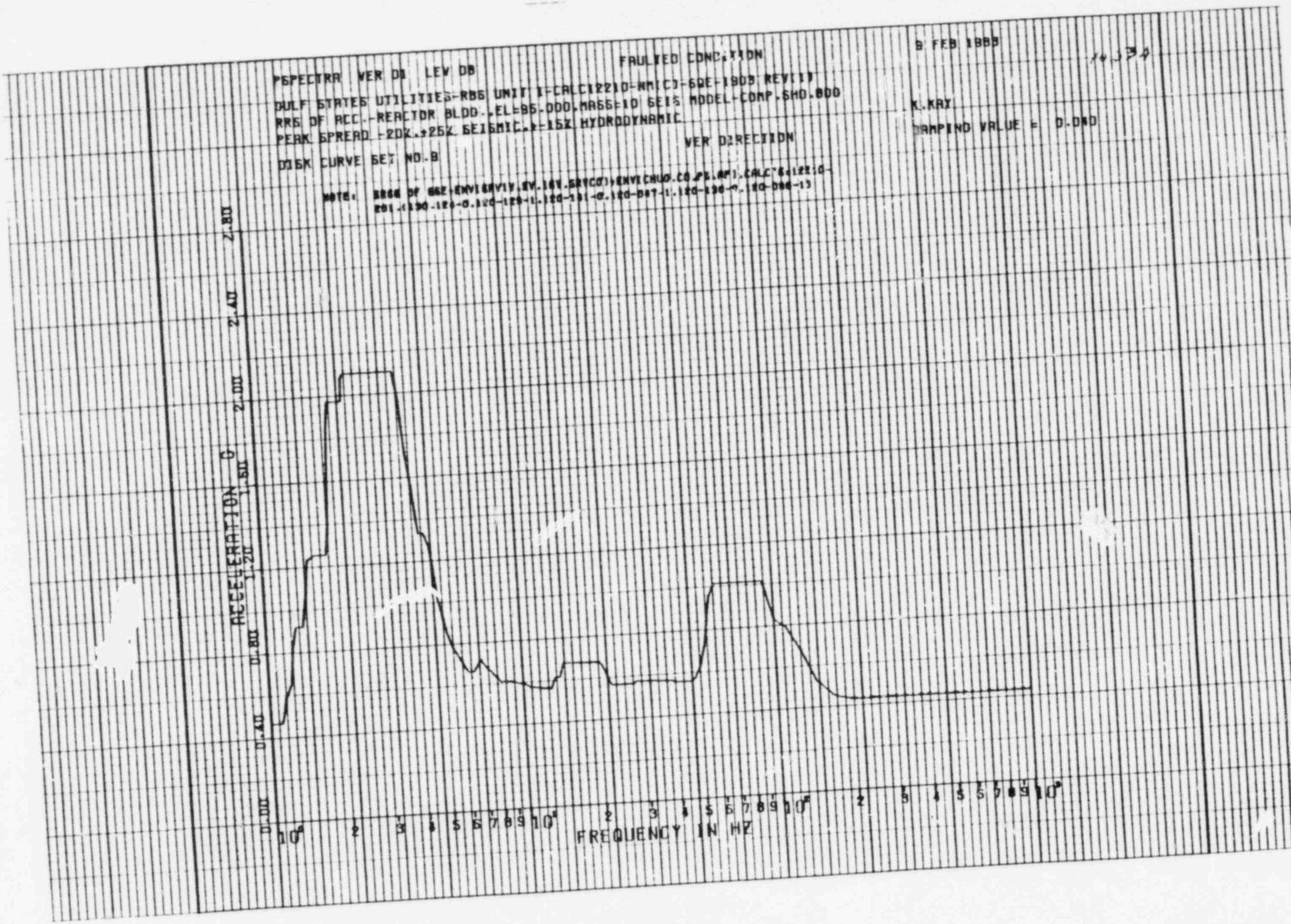
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=85.000,MASS=10 SEIS MODEL-COMP.SHO.800
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC K.KAY

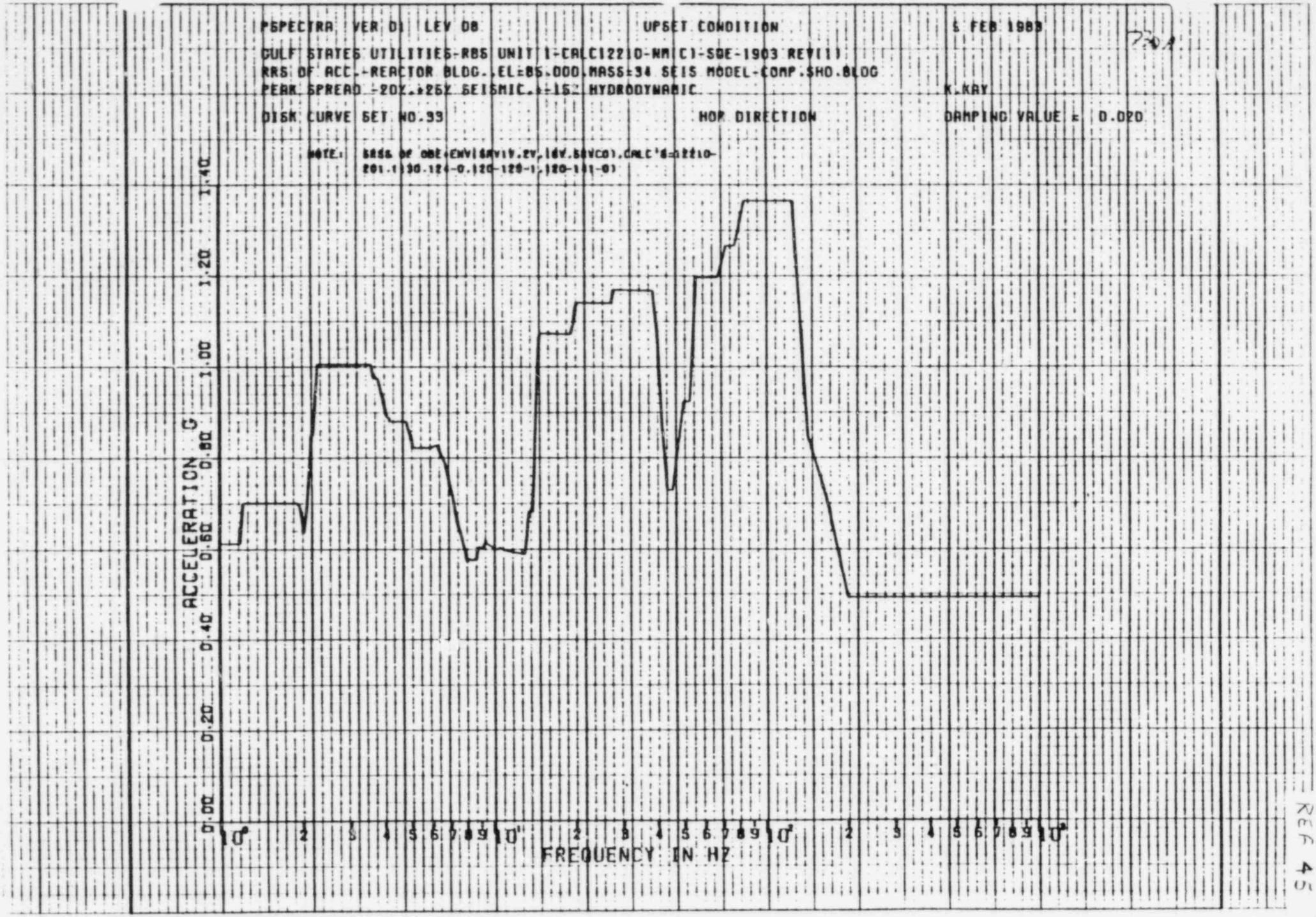
DISK CURVE SET NO.9 HOR DIRECTION DAMPING VALUE = 0.040

NOTE: SRSS OF [illegible]

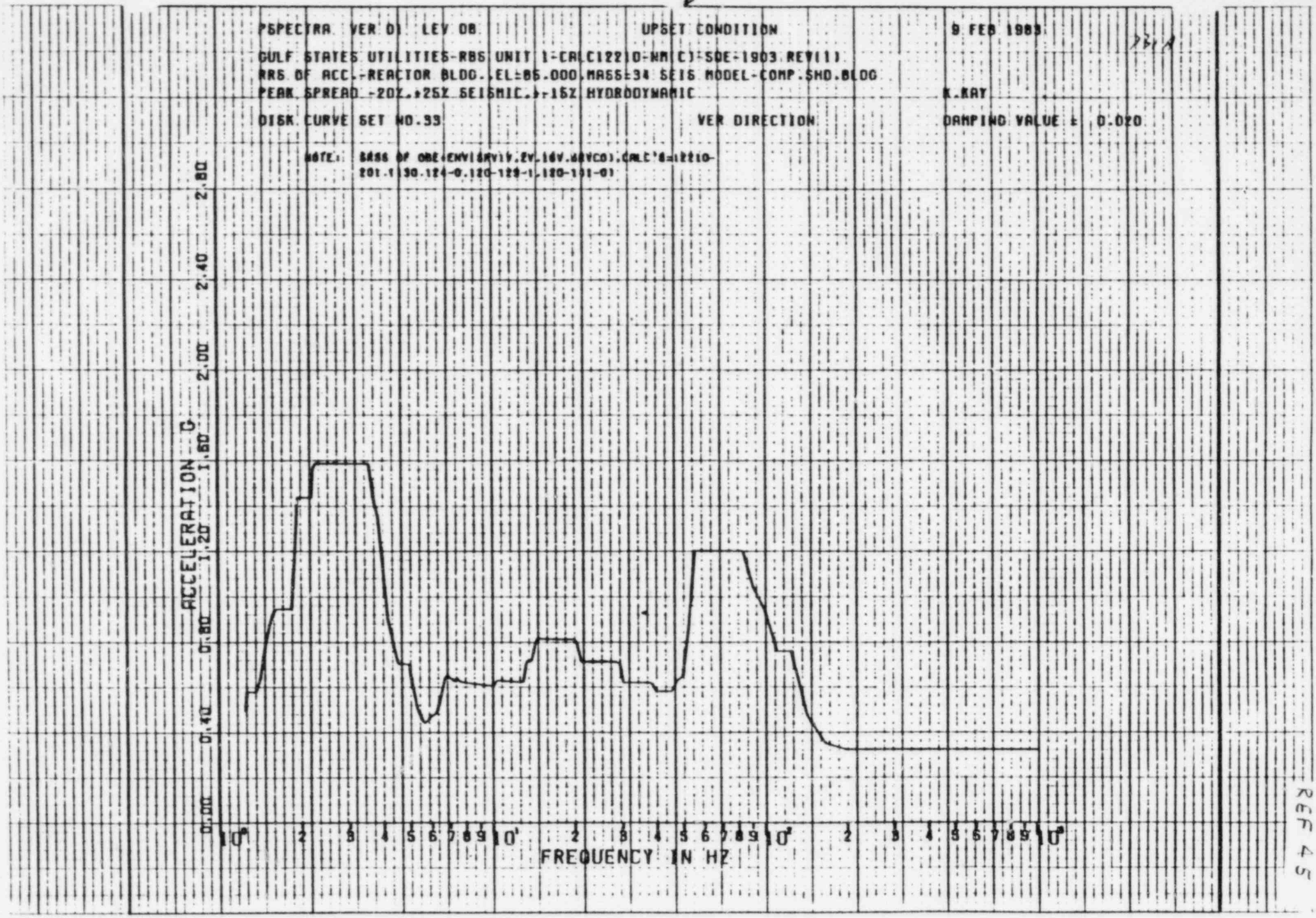


REF 44

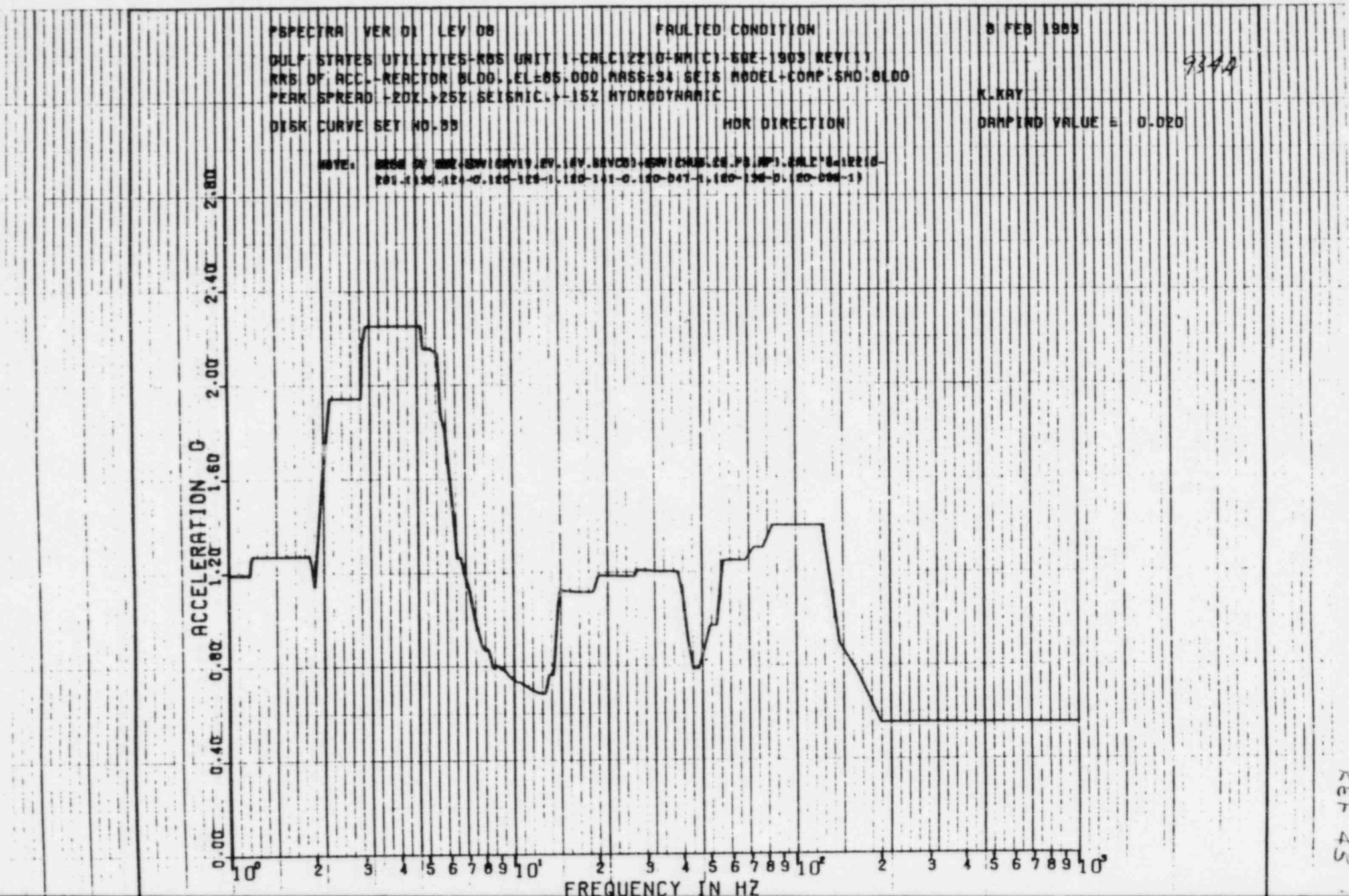

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1989
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-6QE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=95.000,MASS=10 SEIS MODEL-COMP.SHD.800
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DAMPING VALUE = 0.040
VER DIRECTION
DISK CURVE SET NO.8
NOTE:
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ


PSPECTRA VER 01 LEV 08
UPSET CONDITION
5 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG., EL=85.000 MASS=34 SEIS MODEL-COMP.SHD.BLDG
PEAK SPREAD -20%,+25% SEISMIC, +-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.33
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: RRSS OF OBE+ENV(SRV19.2V,16V,SRVC01),CALC'S=12210-
201.(130.124-0.120-120-1,120-101-0)
ACCELERATION G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
10^0
2
3
4
5
6
7
8
9
10^1
2
3
4
5
6
7
8
9
10^2
2
3
4
5
6
7
8
9
10^3
FREQUENCY IN HZ

REF 45

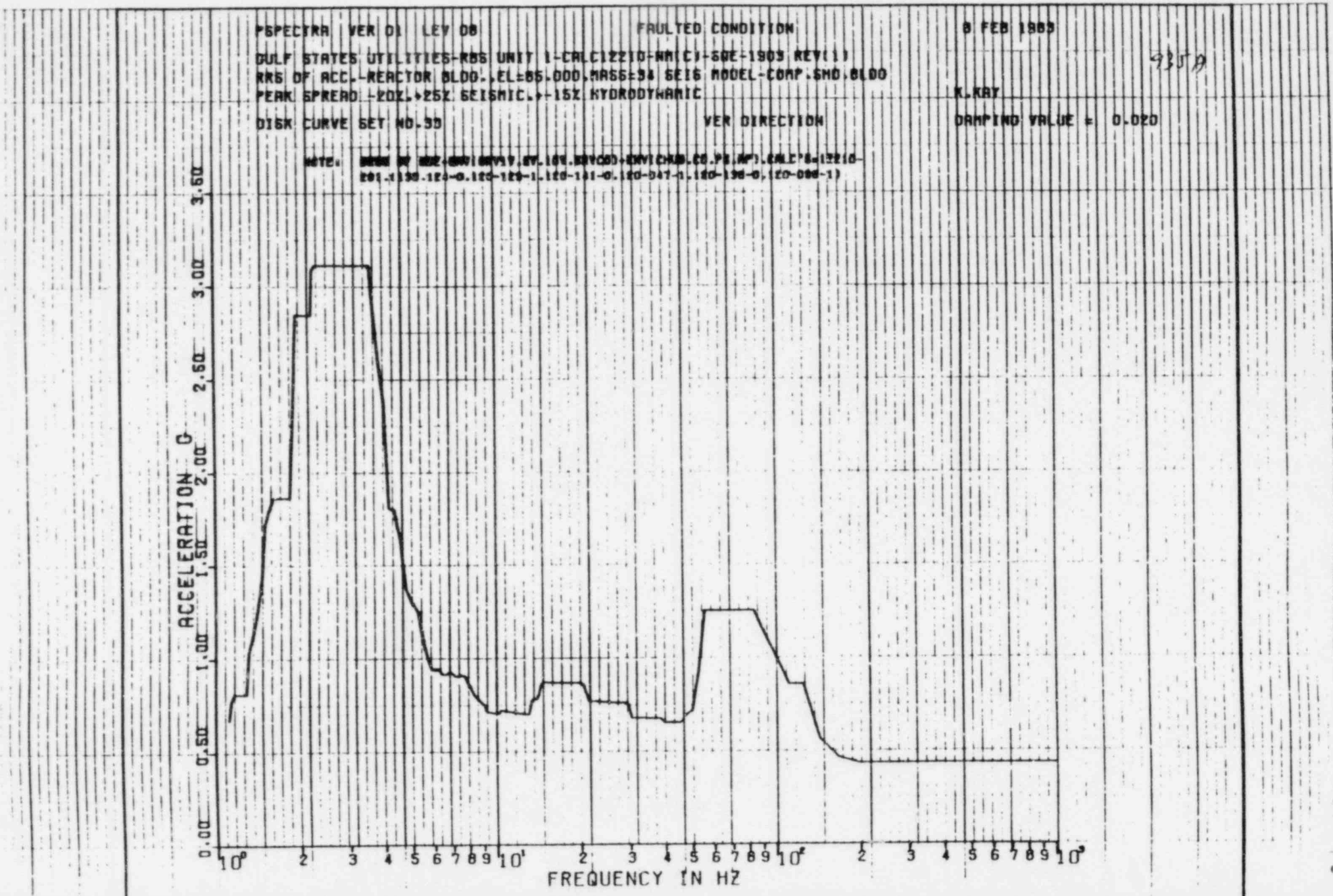

PSPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC122 0-NM C)-SDE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=85.000,MASS=34 SEIS MODEL-COMP.SHD.BLDG
PEAK SPREAD -20Z,+25Z SEISMIC,+-15Z HYDRODYNAMIC
R.RAY
DISK CURVE SET NO.33
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: BASE OF ORE+ENV(SRV1V,2V,16V,66VCO),CALC'S=1210-201.1)30.124-0.120-129-1.120-131-01)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

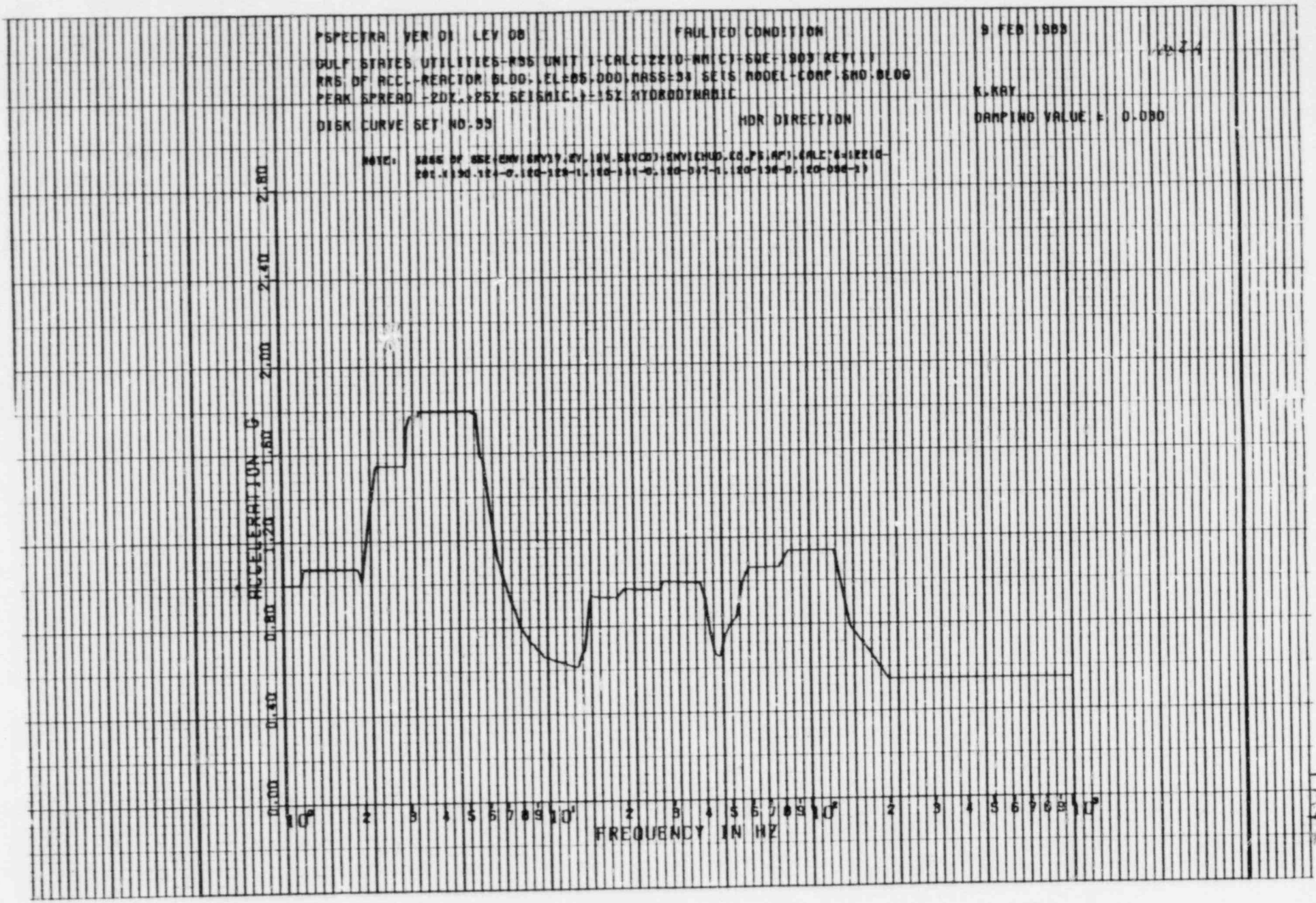
REF 45


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-GGE-1903 REV(1)
RRB OF ACC.-REACTOR BLDG.,EL=85.000,MASS=34 SEIS MODEL+COMP.SMD.BLDG
PEAK SPREAD +20%,-25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.33
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

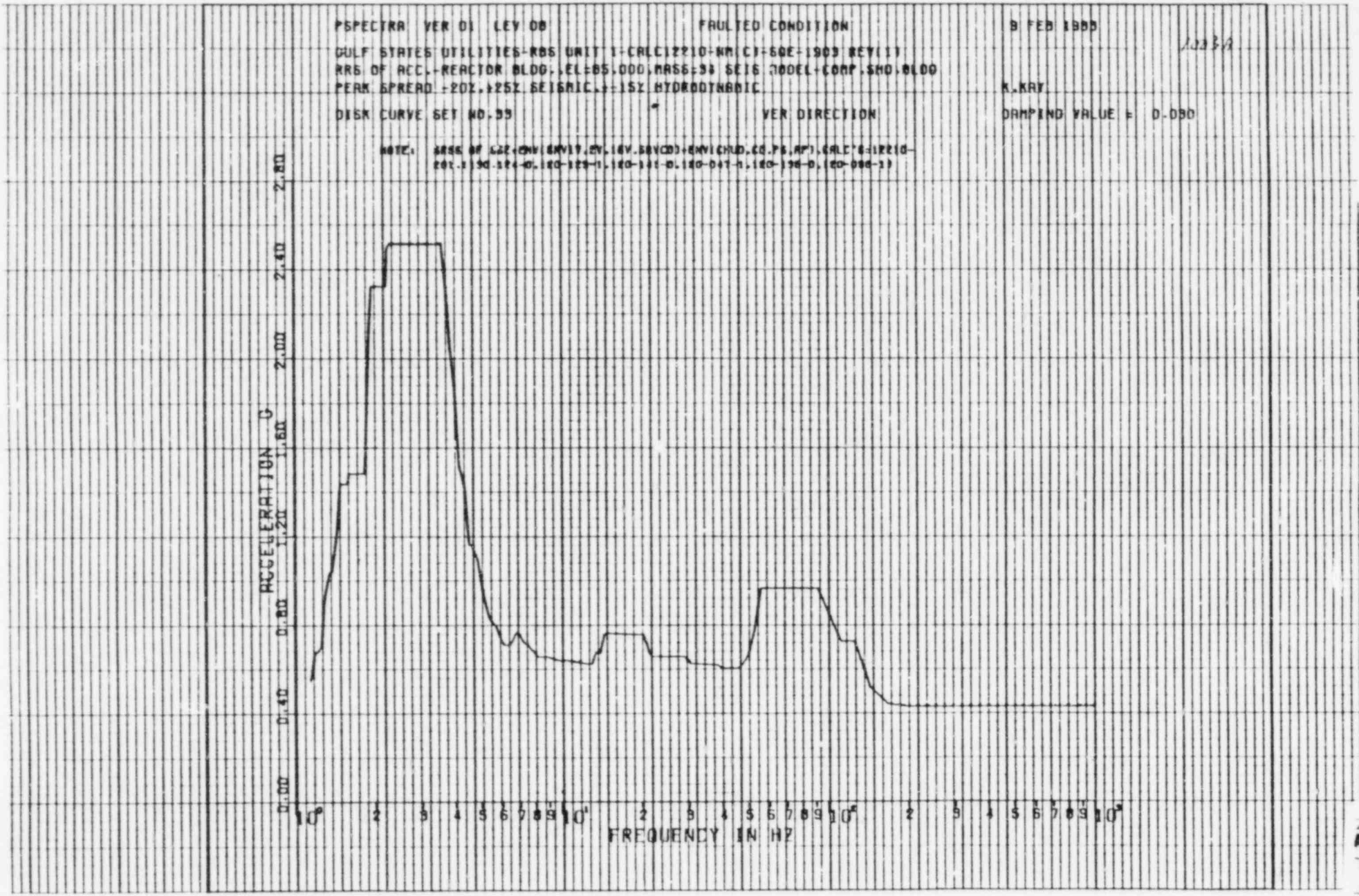
9344

REF 45

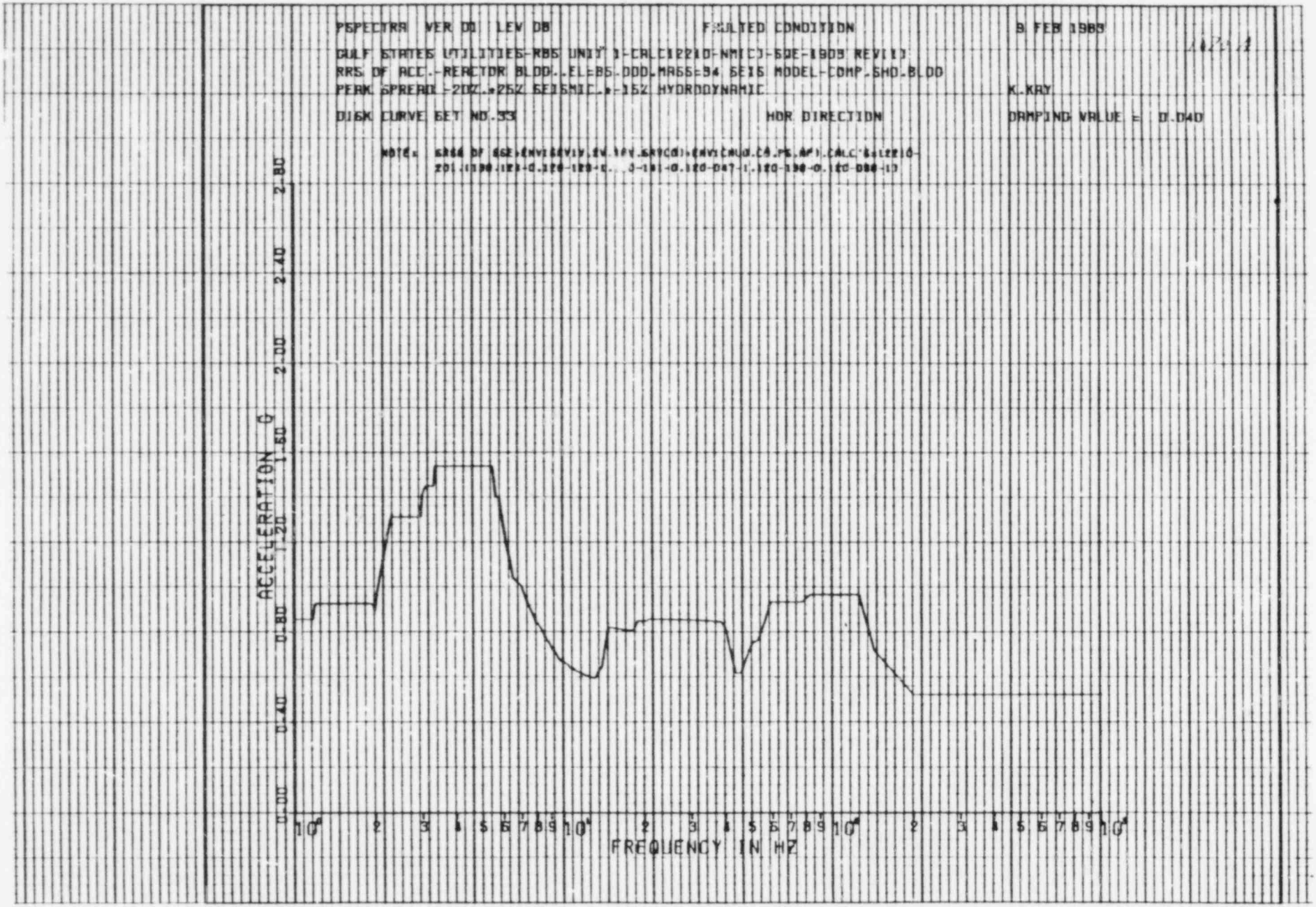

SPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MM(C)-SQE-1903 REV(1)
935A
RRS OF ACC.-REACTOR BLDG.,EL=85.000,MASS=34 SEIS MODEL-COMP.SMD.BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.30
VER DIRECTION
DAMPING VALUE = 0.020
NOTE:
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
10⁰ 2 3 4 5 6 7 8 9 10¹ 2 3 4 5 6 7 8 9 10² 2 3 4 5 6 7 8 9 10³
FREQUENCY IN HZ


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1983
GULF STATES UTILITIES-R35 UNIT 1-CALC12210-AM(C)-GQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=85.000,MASS=34 SEIS MODEL-COMP.SHD.BLDG
PEAK SPREAD -20%,+25% SEISMIC,+-5% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.33
HOR DIRECTION
DAMPING VALUE = 0.030
ACCELERATION G
FREQUENCY IN HZ

REF 45


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-GQE-1903 REV(1)
RBS OF ACC.-REACTOR BLDG.,EL=85.000,MASS=3% SEIS MODEL-COMP.SHD.BLDG
PEAK SPREAD +20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.33
VER DIRECTION
DAMPING VALUE = 0.050
NOTE: BASE OF CURVE(ENV(ENV17.2V,16V,58VCD)+ENV(CHUD,CD,PS,AP),CALC'S=12210-
0.000 0.40 0.80 1.20 1.60 2.00 2.40 2.80
ACCELERATION G
FREQUENCY IN HZ

REF 45


PSPECTRA VER 00 LEV 08 FAULTED CONDITION 9 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-SDE-1003 REVII
RRS OF ACC.-REACTOR BLDG..EL=85.000.MASS=34 SEIS MODEL-COMP.SHD.BLDG
PEAK SPREAD -20%..+25% SEISMIC..+-15% HYDRODYNAMIC K.KAY
DISK CURVE SET NO.33 HOR DIRECTION DAMPING VALUE = 0.040
NOTE: SAVE OF SGZ>ENVISENV1.EV.10Y.SRSCD)>ENVISNUD.CO.PS.AP).CALC'&12210-
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

REF 45

REF 45

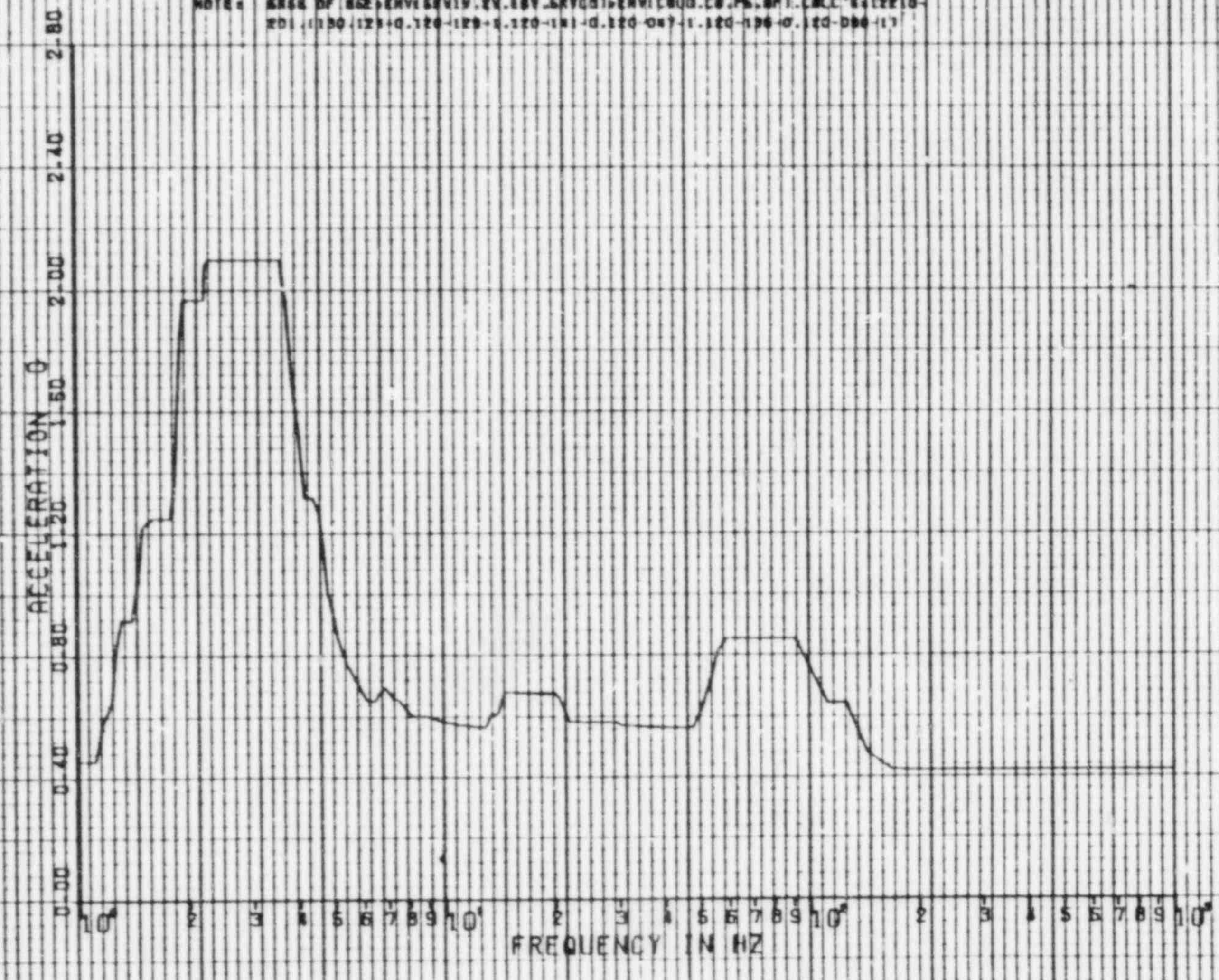
PSPECTRA VER 00 LEV 08 FAULTED CONDITION 9 FEB 1983

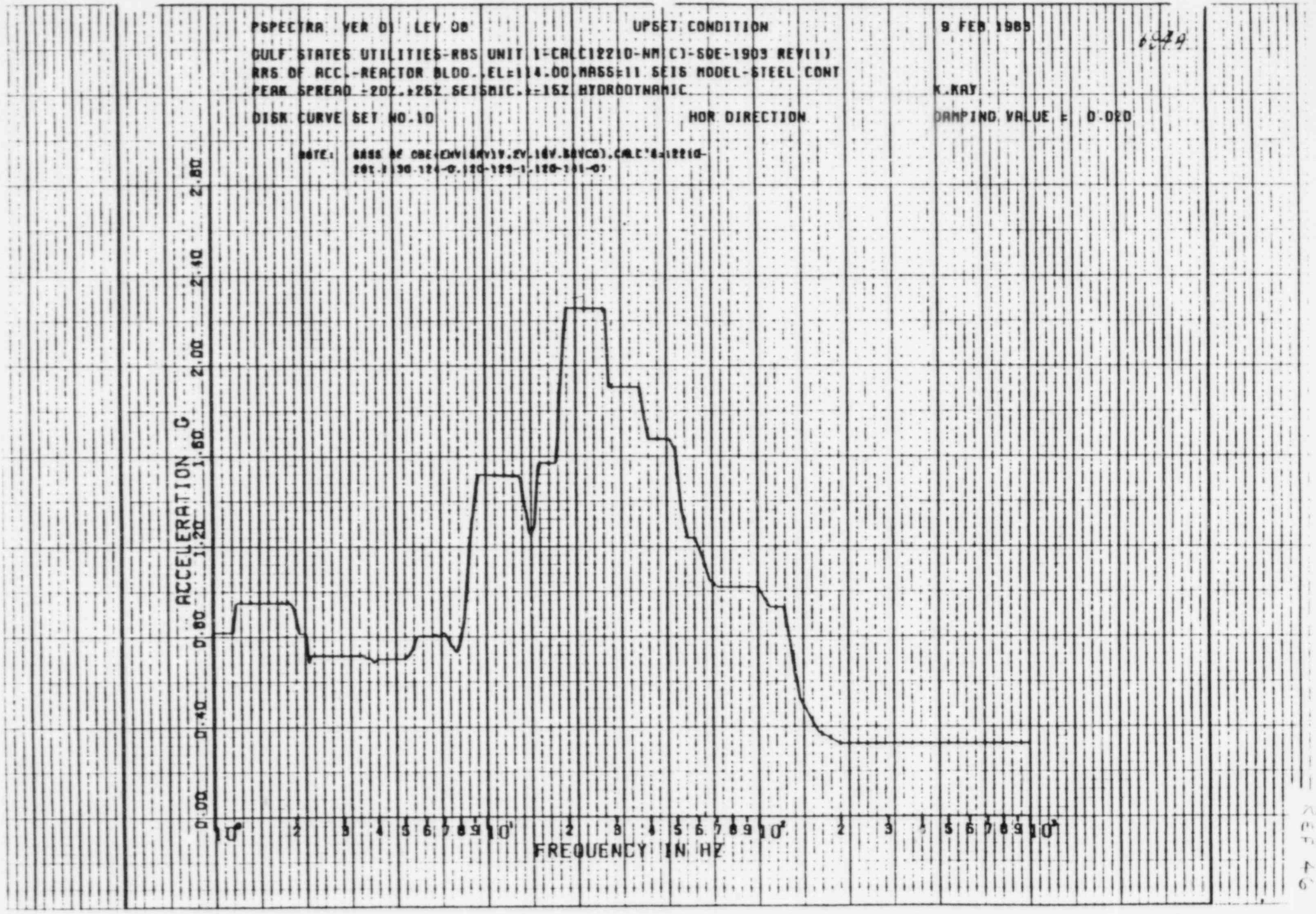
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SDE-1803 REV(1)

RRS OF ACC.-REACTOR BLDG..EL=85.000.MASS=34 SEIS MODEL-COMP.SHD.BLDG

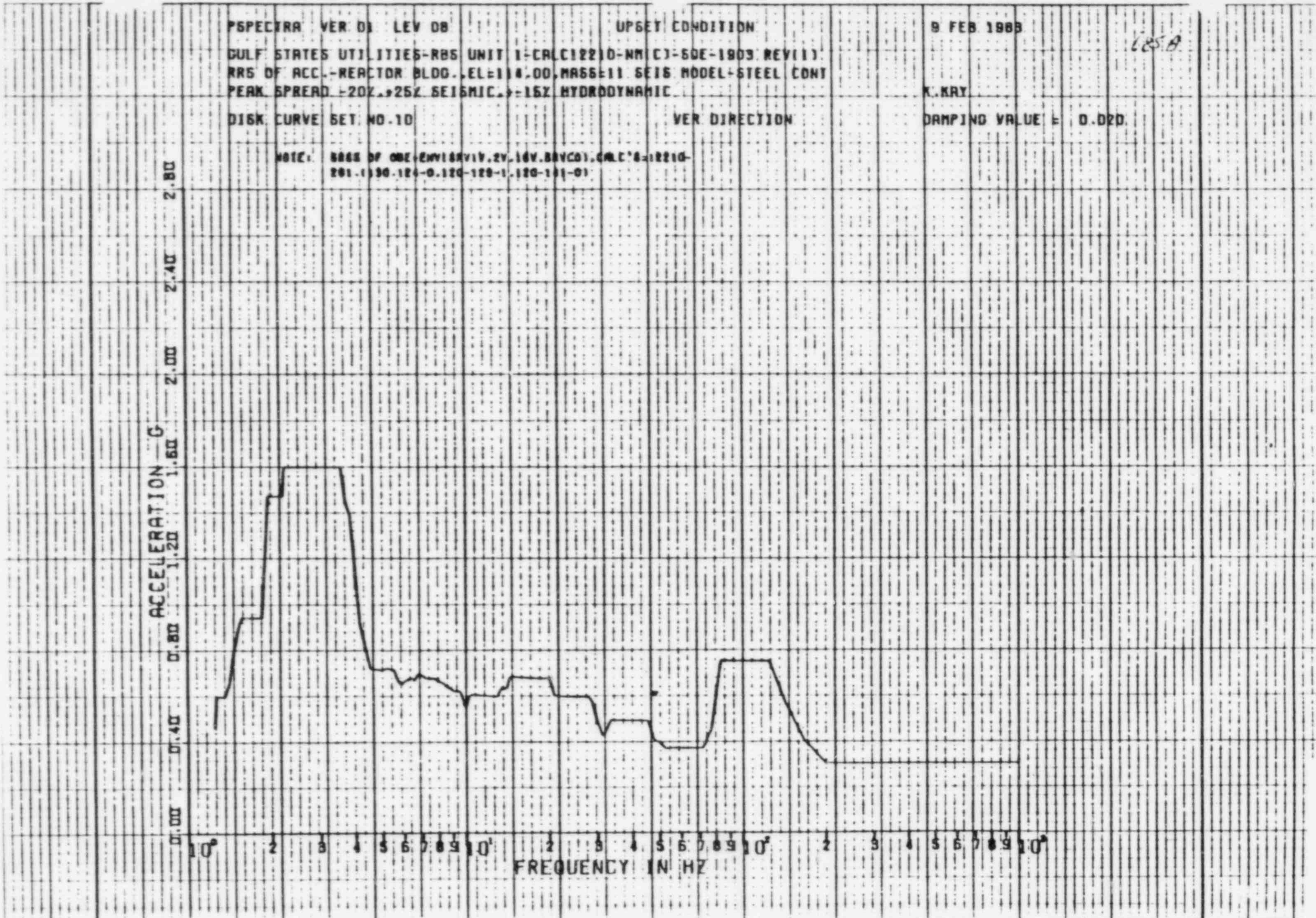
PEAK SPREAD -20%.+25% SEISMIC.+-15% HYDRODYNAMIC K.KAY

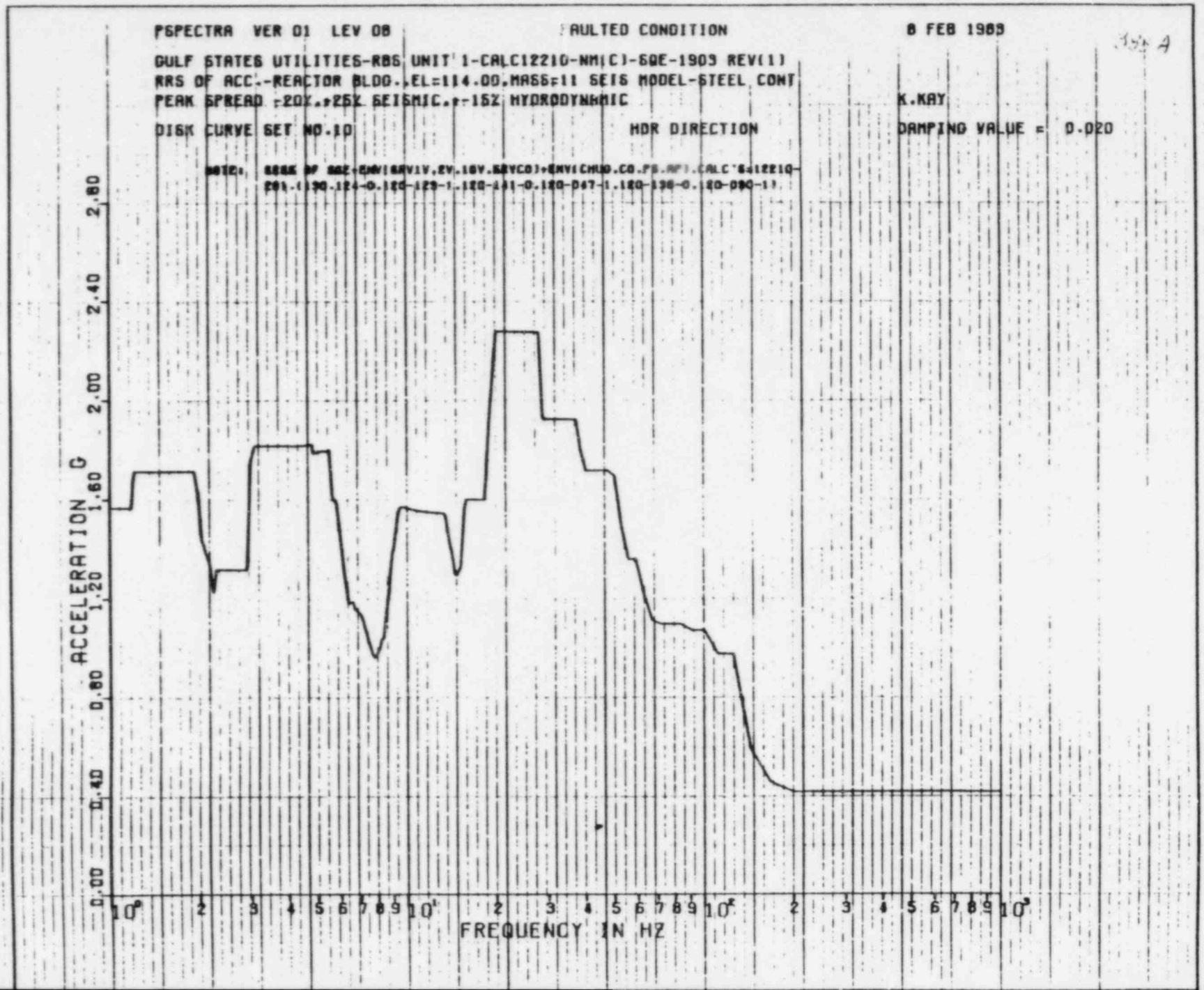
DISK CURVE SET NO.33 VER DIRECTION DAMPING VALUE = 0.040



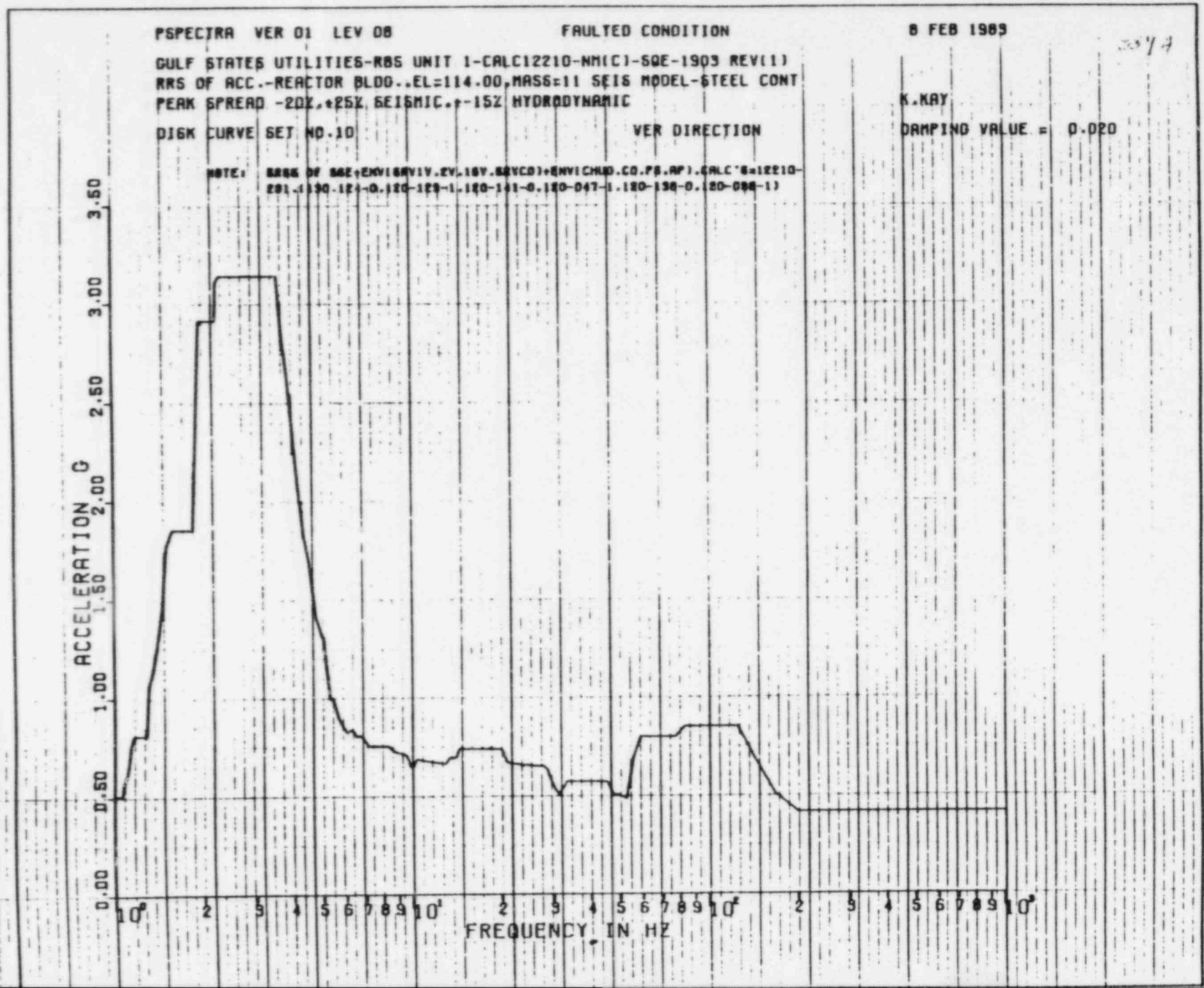

PSPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1985
6249
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SDE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=114.00 MASS=11 SEIS MODEL-STEEL CONT
PEAK SPREAD =20%,+25% SEISMIC,+=15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.10
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: BASS OF CBE(CHV(SRV)19.2V.18V.BRVCO).CALC'S=12210-
201.1(30.124-0.120-129-1.120-101-0)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
10⁰
2
3
4
5
6
7
8
9
10¹
2
3
4
5
6
7
8
9
10²
2
3
5
6
7
8
9
10³
FREQUENCY IN HZ

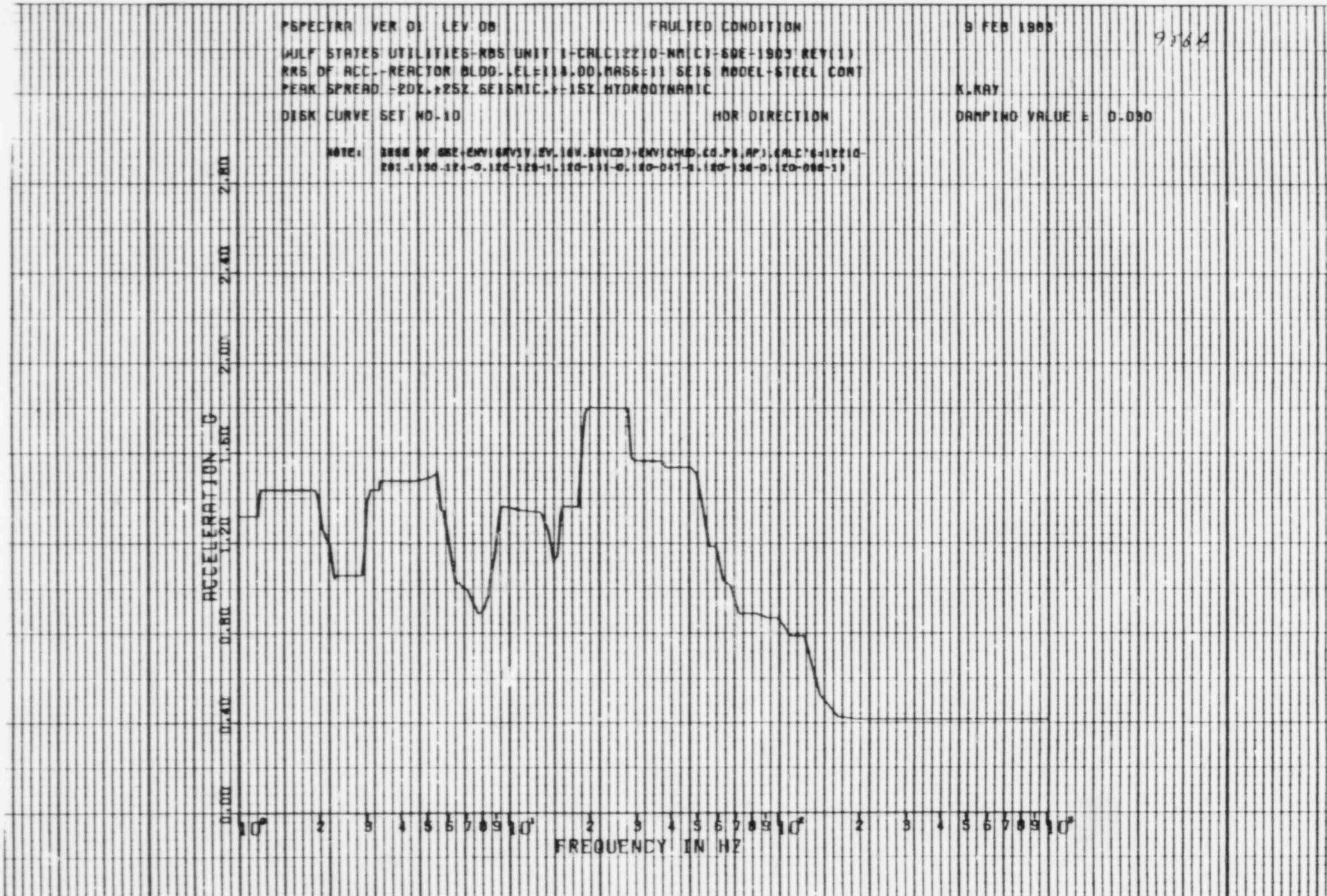
REF 46


PSPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=114.00,MASS=11 SEIS MODEL-STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.10
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

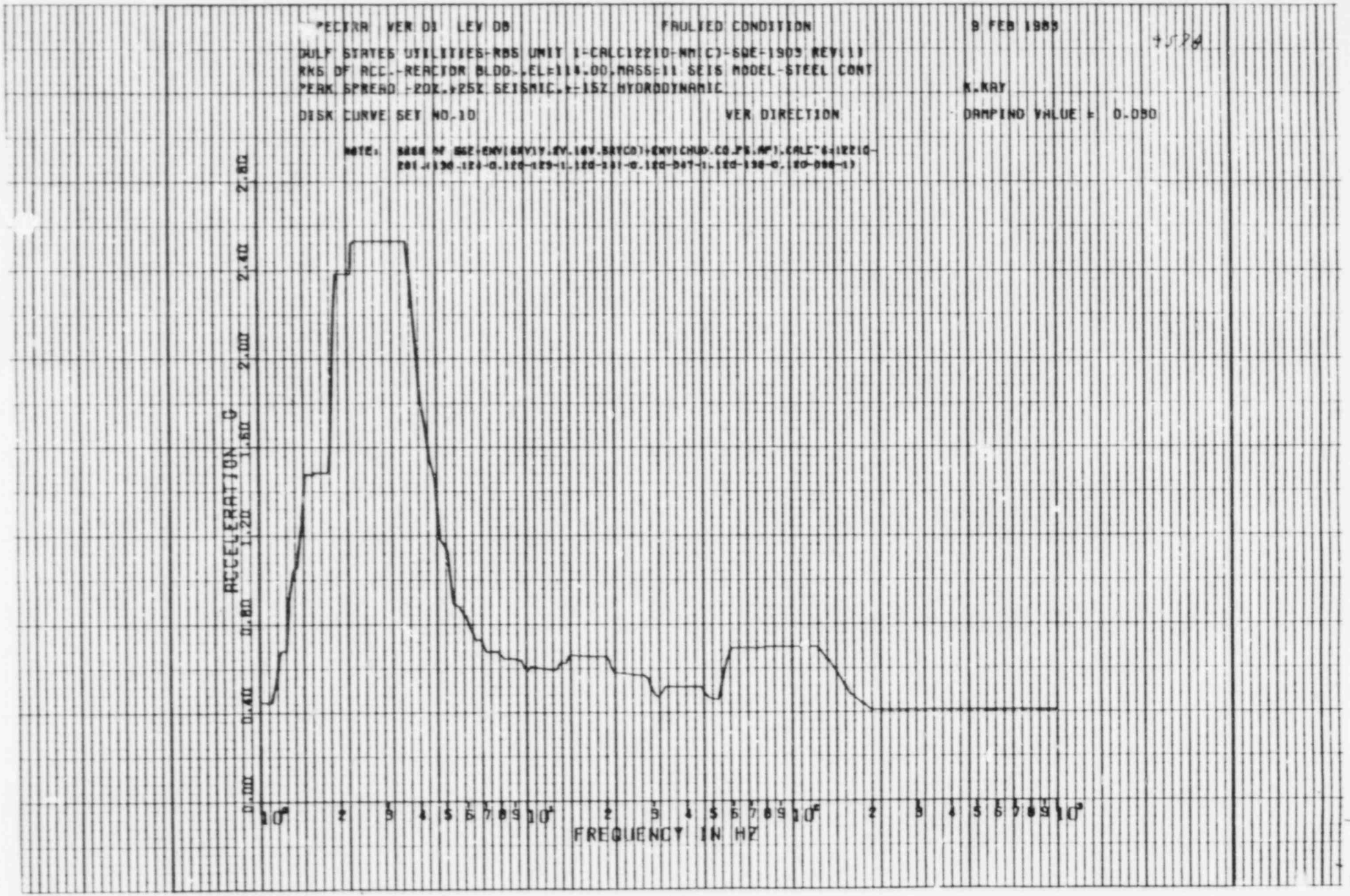

PSPECTRA VER 01 LEV 08
AULTED CONDITION
8 FEB 1989
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=114.00,MASS=11 SEIS MODEL-STEEL CONT
PEAK SPREAD +20%,-25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.10
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

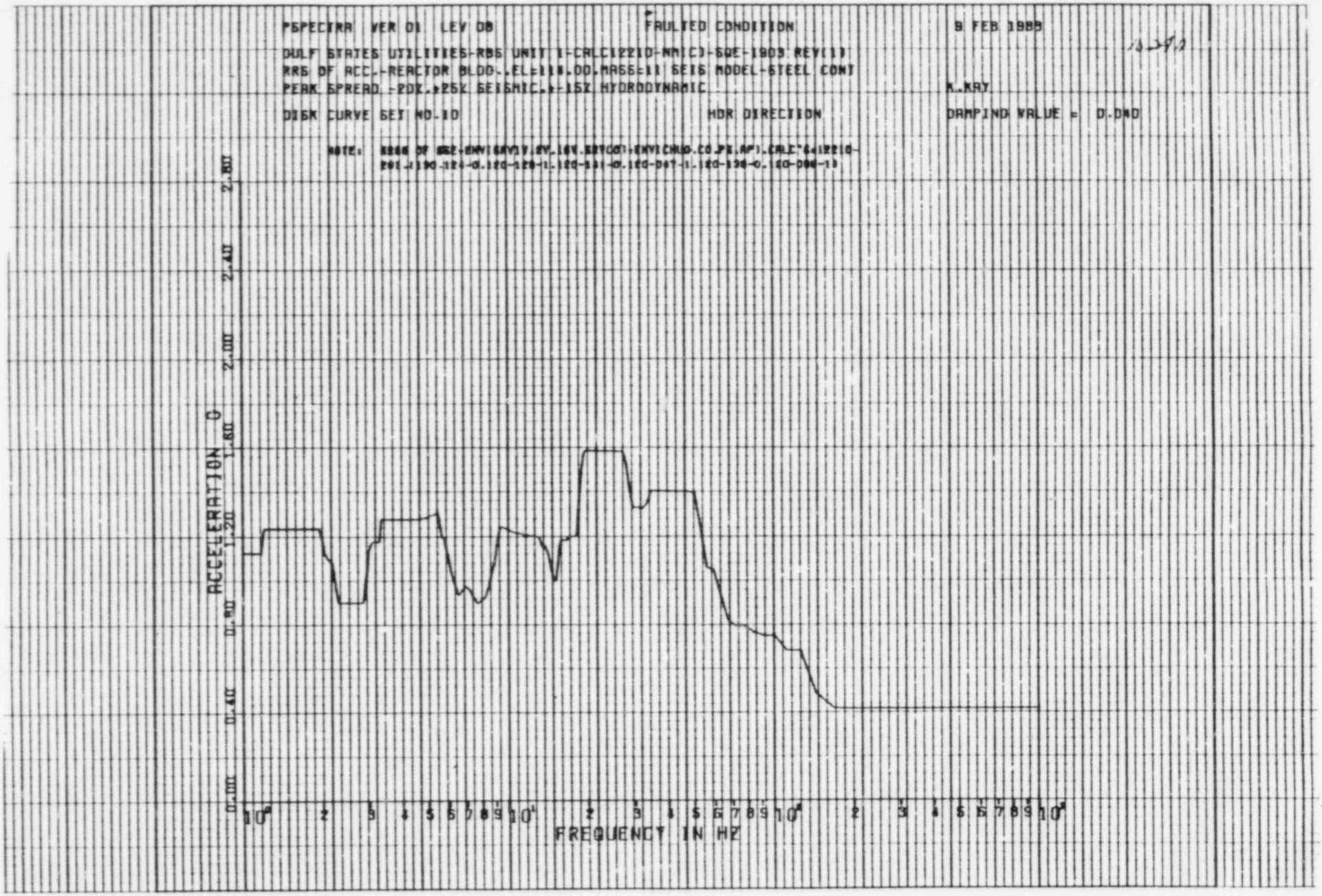
REF 46


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG..EL=114.00,MASS=11 SEIS MODEL-STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.10
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: ENVELOPE OF SQE+ENVISRV1V.ZV.1SV.SQVCD)+ENVICHBD.CO.PS.RF).CALC'S=12210-
ACCELERATION G
FREQUENCY IN HZ

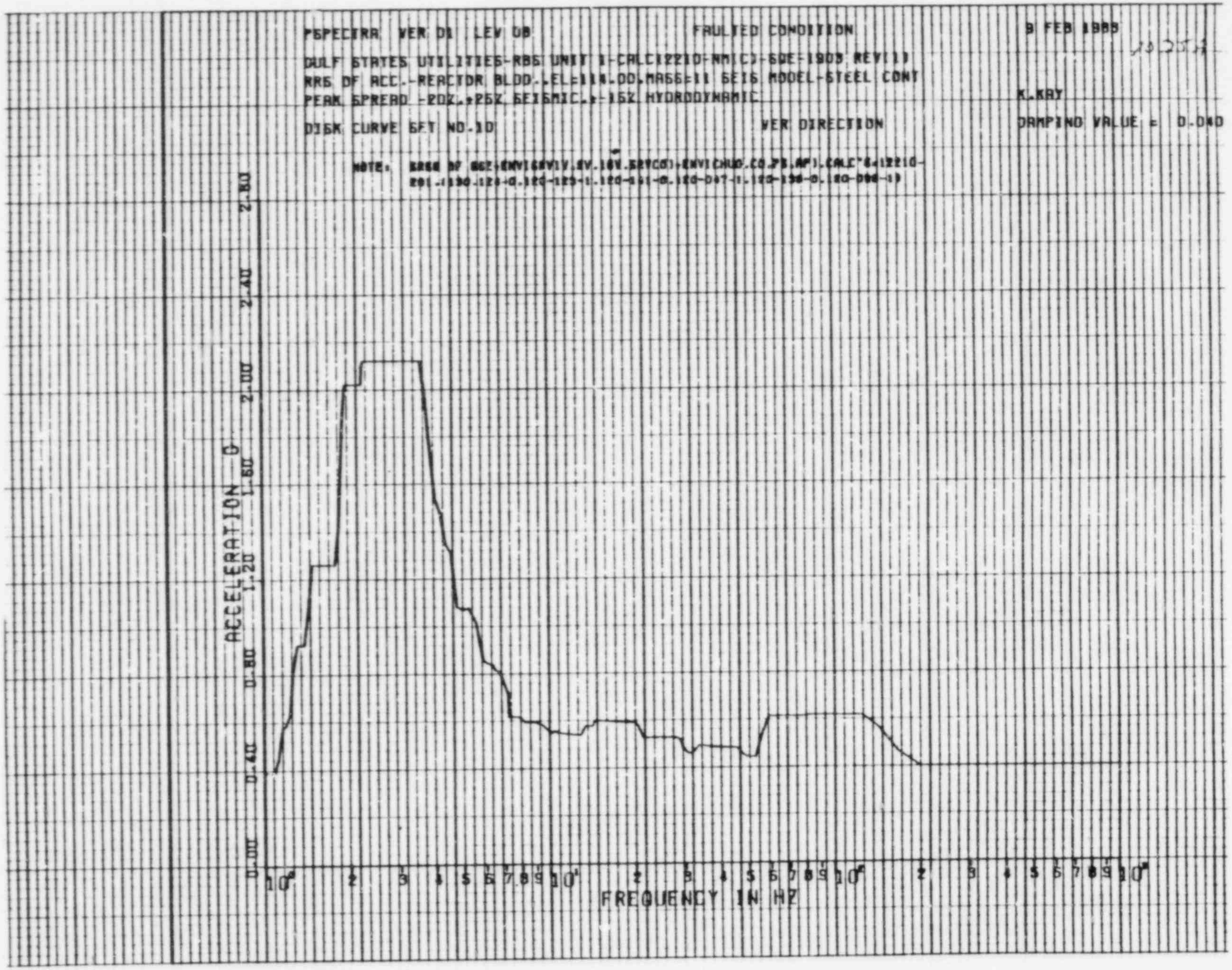

PSPECTRA VER 01 LEV 00
FAULTED CONDITION
9 FEB 1985
9/16A
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=114.00,MASS=11 SEIS MODEL-STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.RAY
DISK CURVE SET NO-10
HOR DIRECTION
DAMPING VALUE = 0.030
NOTE:
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

REF 46


PECTRA VER 01 LEV 08 FAULTED CONDITION 9 FEB 1983
4578
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MM(C)-SQE-1903 REV(1)
RMS OF RCC.-REACTOR BLDG.,EL=114.00,MASS=11 SEIS MODEL-STEEL CONT
PEAK SPREAD =20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.10 VER DIRECTION
DAMPING VALUE = 0.050
NOTE:
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

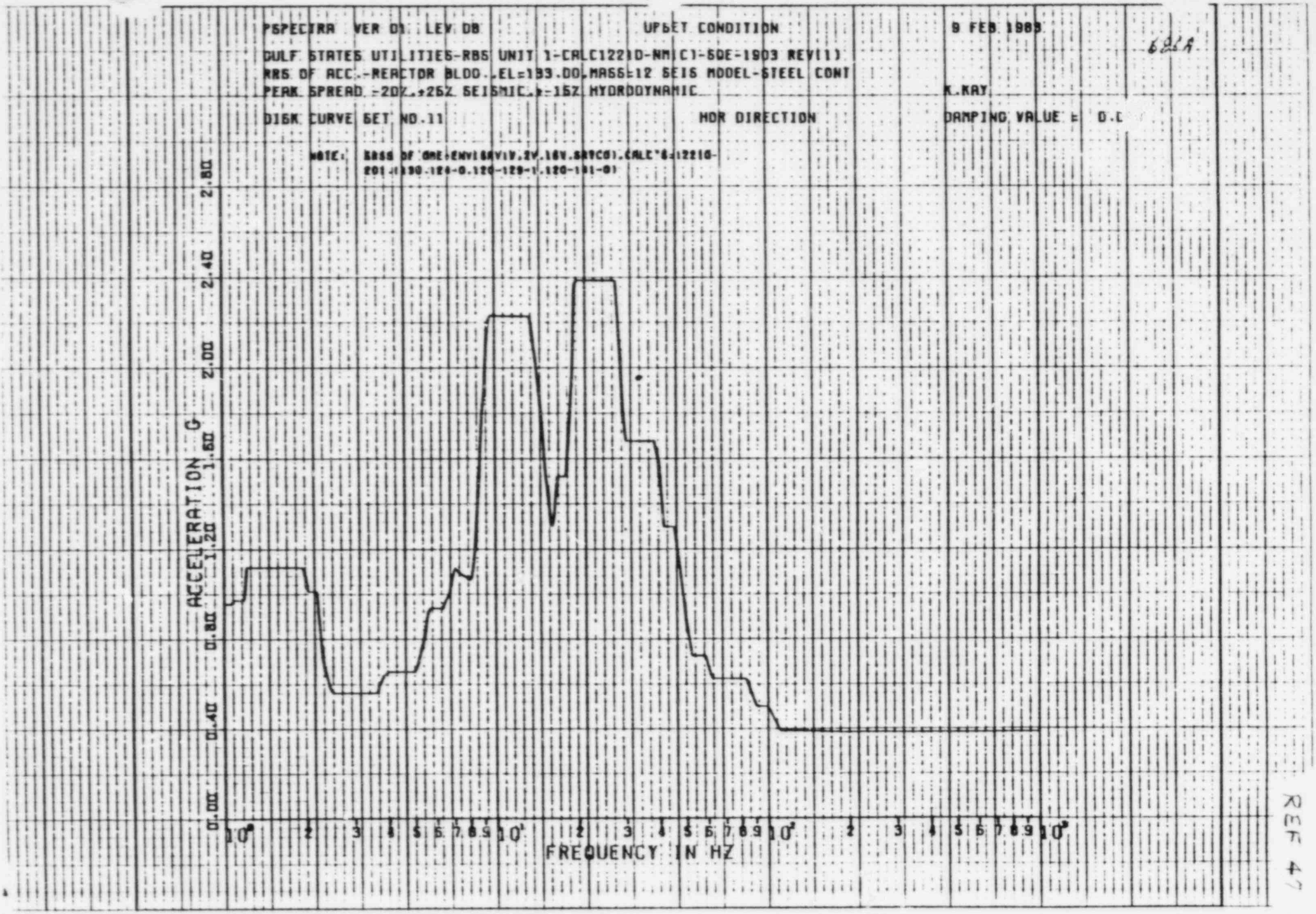

SPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC(2210-NMIC)-SQE-1903 REV(1)
RBS OF ACC.-REACTOR BLDG.-EL=118.00.MASS=11 SEIS MODEL-STEEL CONT
PEAK SPREAD -20%.+25% SEISMIC.+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.10
HOR DIRECTION
DAMPING VALUE = 0.040
NOTE:
ACCELERATION G
0.000
0.400
0.800
1.200
1.600
2.000
2.400
2.800
FREQUENCY IN HZ

REF 46 7



PSPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC(12210-NM(C)-SQE-1909 REV(1)
RRS OF ACC.-REACTOR BLDG.-EL=114.00,MASS=11 SEIS MODEL-STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.10
VER DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
FREQUENCY IN HZ

REF 46


PSPECTRA VER 01 LEV 08
UPSET CONDITION
8 FEB 1989
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=133.00,MASS=12 SEIS MODEL-STEEL CONT
PEAK SPREAD =20%,+25% SEISMIC =15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.11
HOR DIRECTION
DAMPING VALUE = 0.0
NOTE: BASE OF ONE-ENVELOPED,2V,1&V,SRTC01,CALC'S=12210-
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

PSPECTRA VER 01 LEV 08 UPSET CONDITION 9 FEB 1988

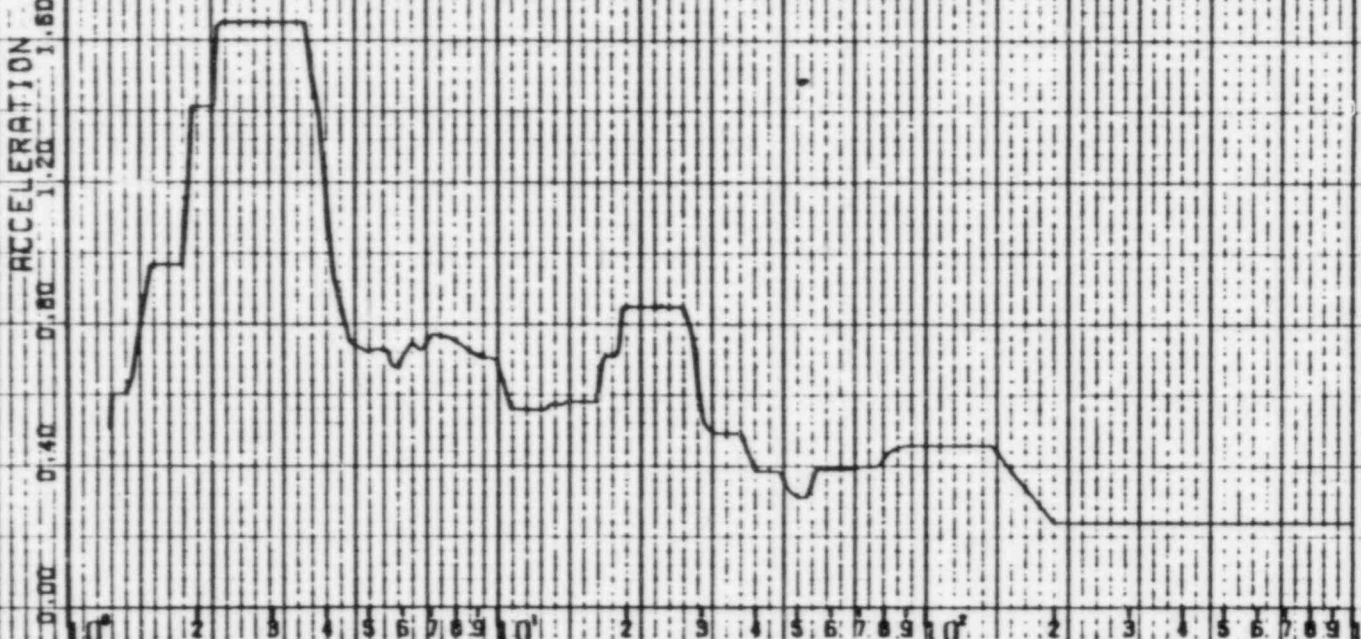
GULF STATES UTILITIES-RBS UNIT 1-CALC(2210-NM(C)-SQE-1903 REV(1)

RRS OF ACC.-REACTOR BLDG. EL=133.00,MASS=12 SEIS MODEL-STEEL CONT

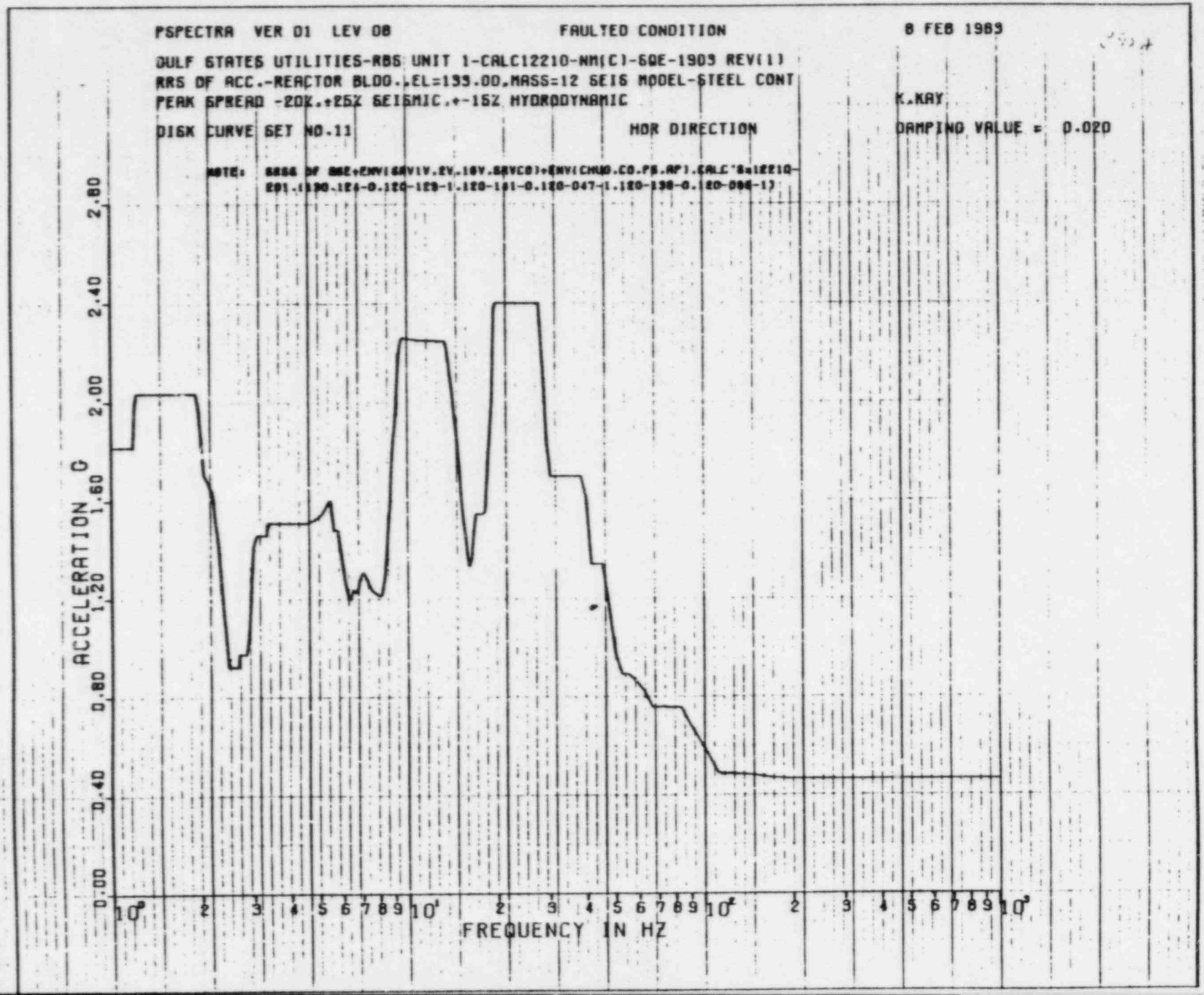
PEAK SPREAD -20%,+25% SEISMIC,+=15% HYDRODYNAMIC K.KAY

DISK CURVE SET NO.1) VER DIRECTION DAMPING VALUE = 0.020

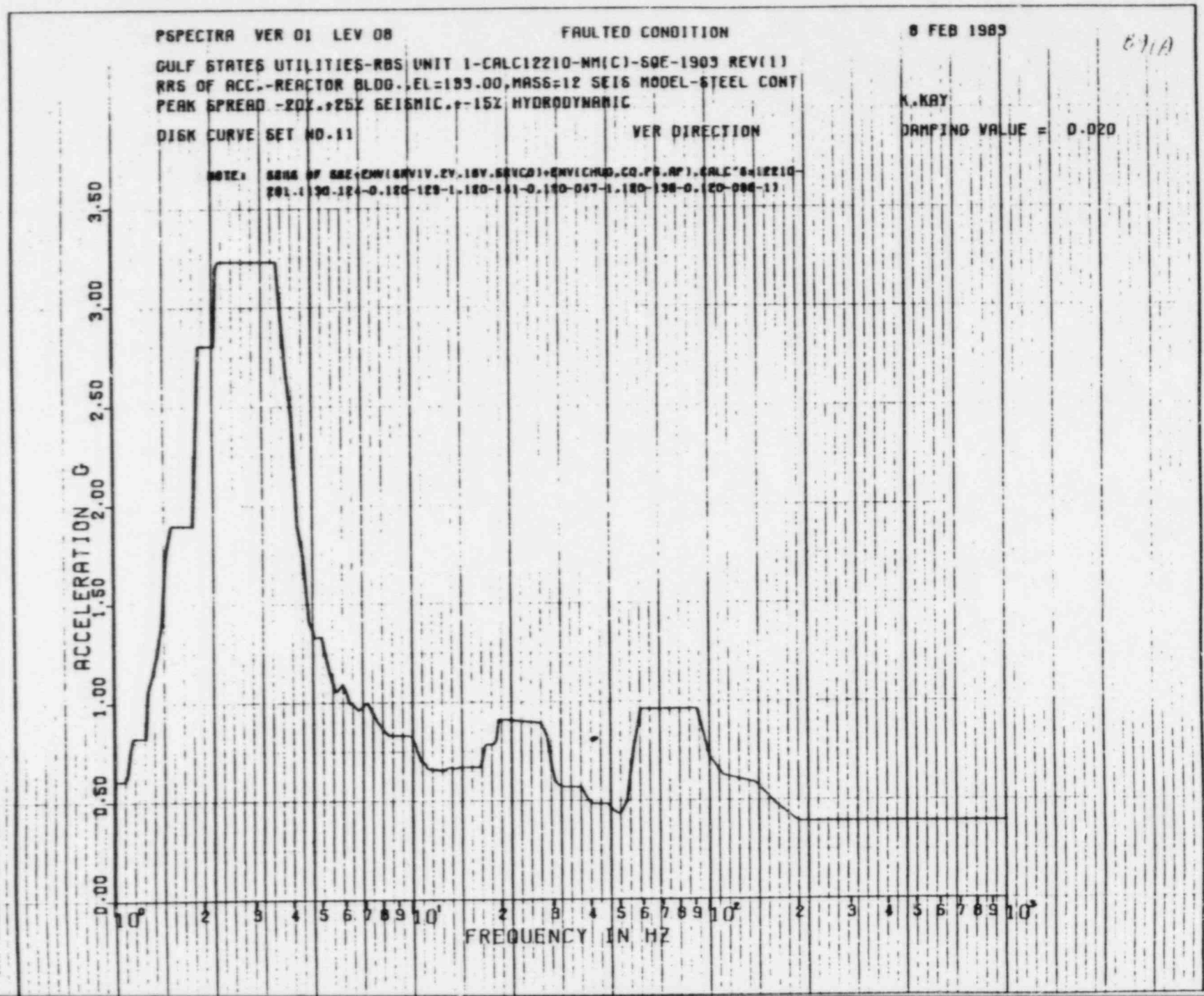
NOTE: SRSS OF OBE+ENV(SRV(17.2V,16V,SRVCO),CALC'd=(2210-201.1)30.12+-0.12C-12S-1.12C-13S-C)

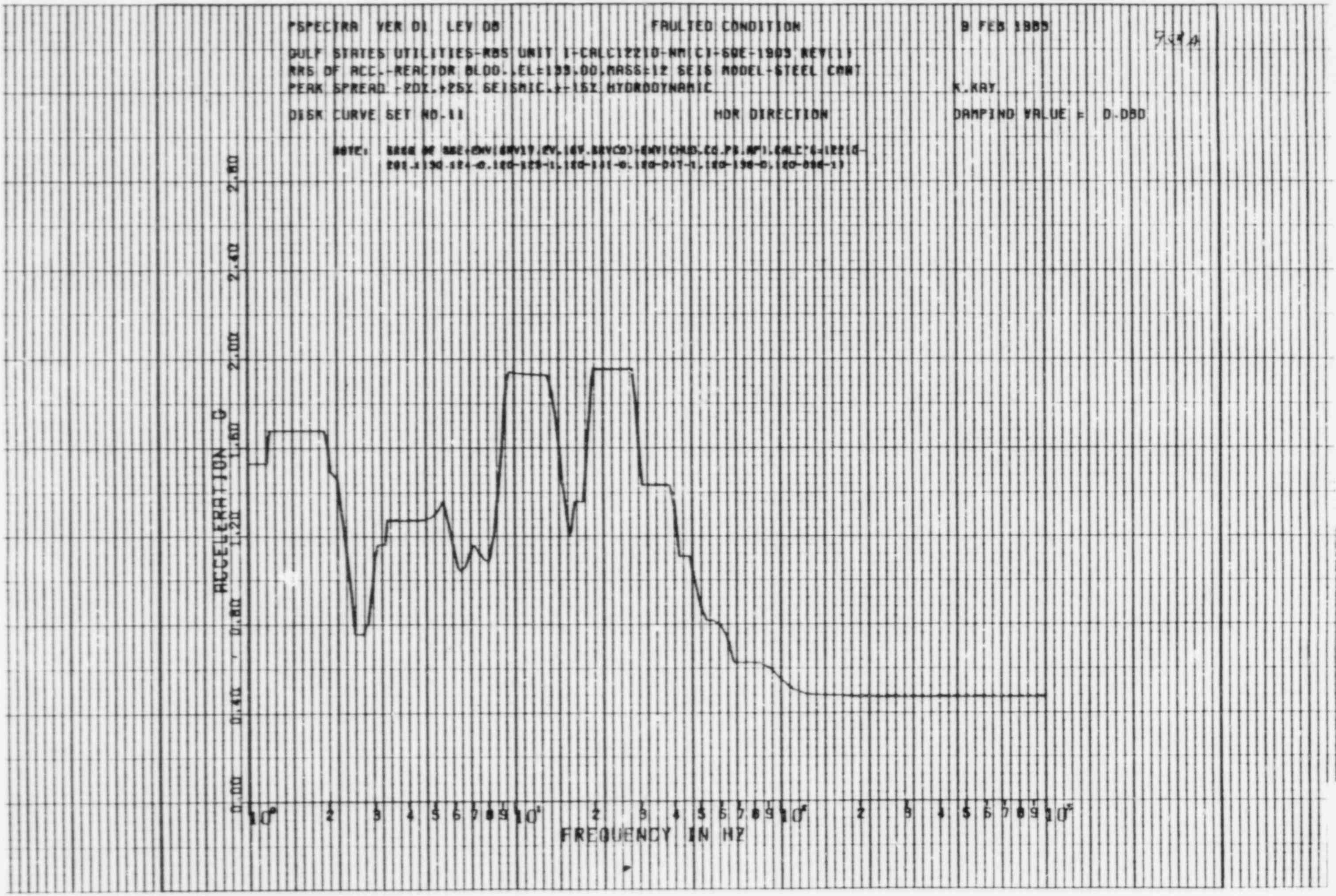


657A

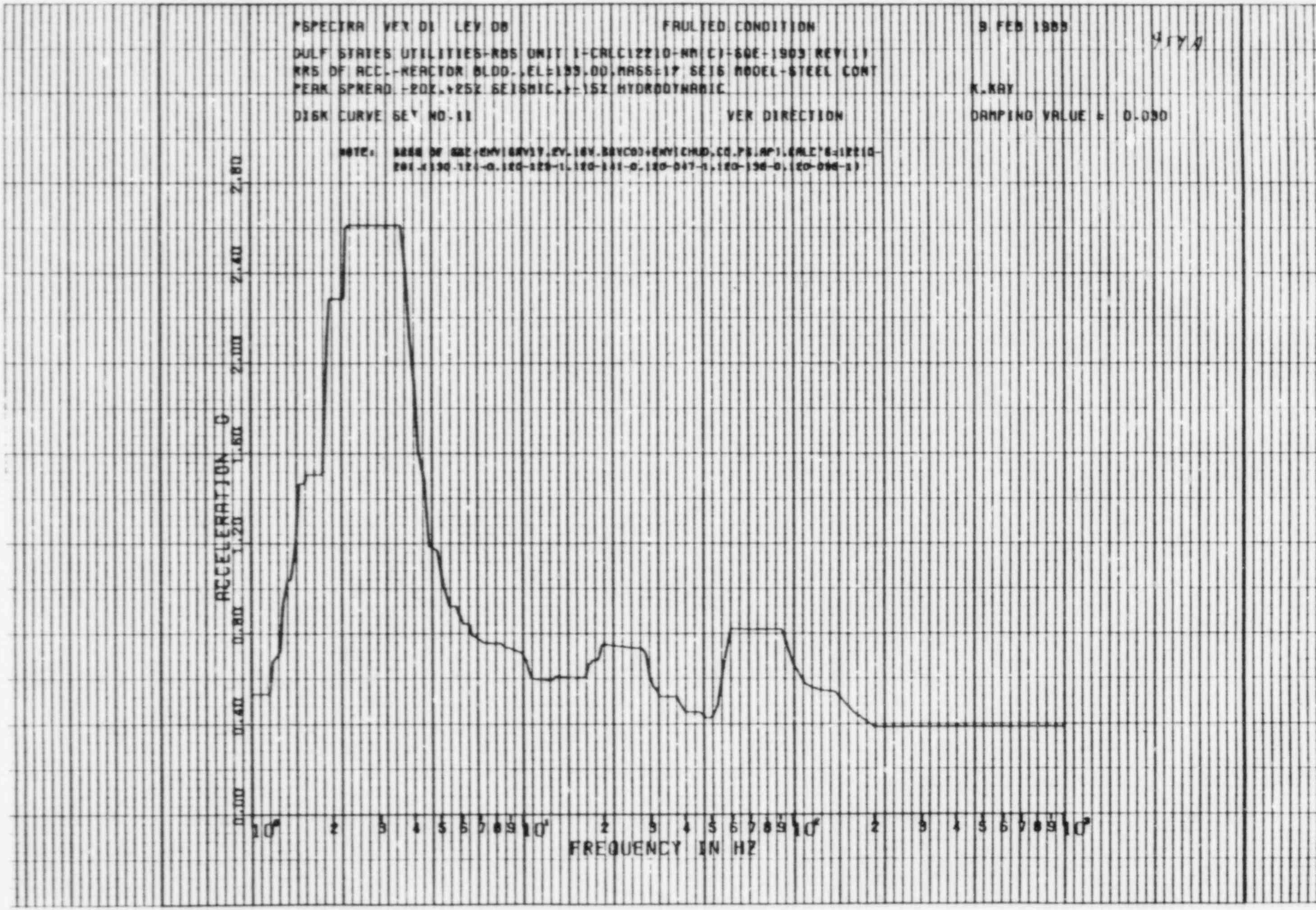

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=133.00,MASS=12 SEIS MODEL-STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.11
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: SRSS OF SSE+ENV(SRV(1V,2V,1BV,SRVCB)+ENV(CHUG,CO,PB,AP),CALC'S=12210-E01.(1)0-1E4-0.1E0-1E3-1.1E0-1B1-0.1E0-047-1.1E0-138-0.1E0-096-1)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
10⁰
2
3
4
5
6
7
8
9
10¹
2
3
4
5
6
7
8
9
10²
2
3
4
5
6
7
8
9
10³
FREQUENCY IN HZ

REF 47

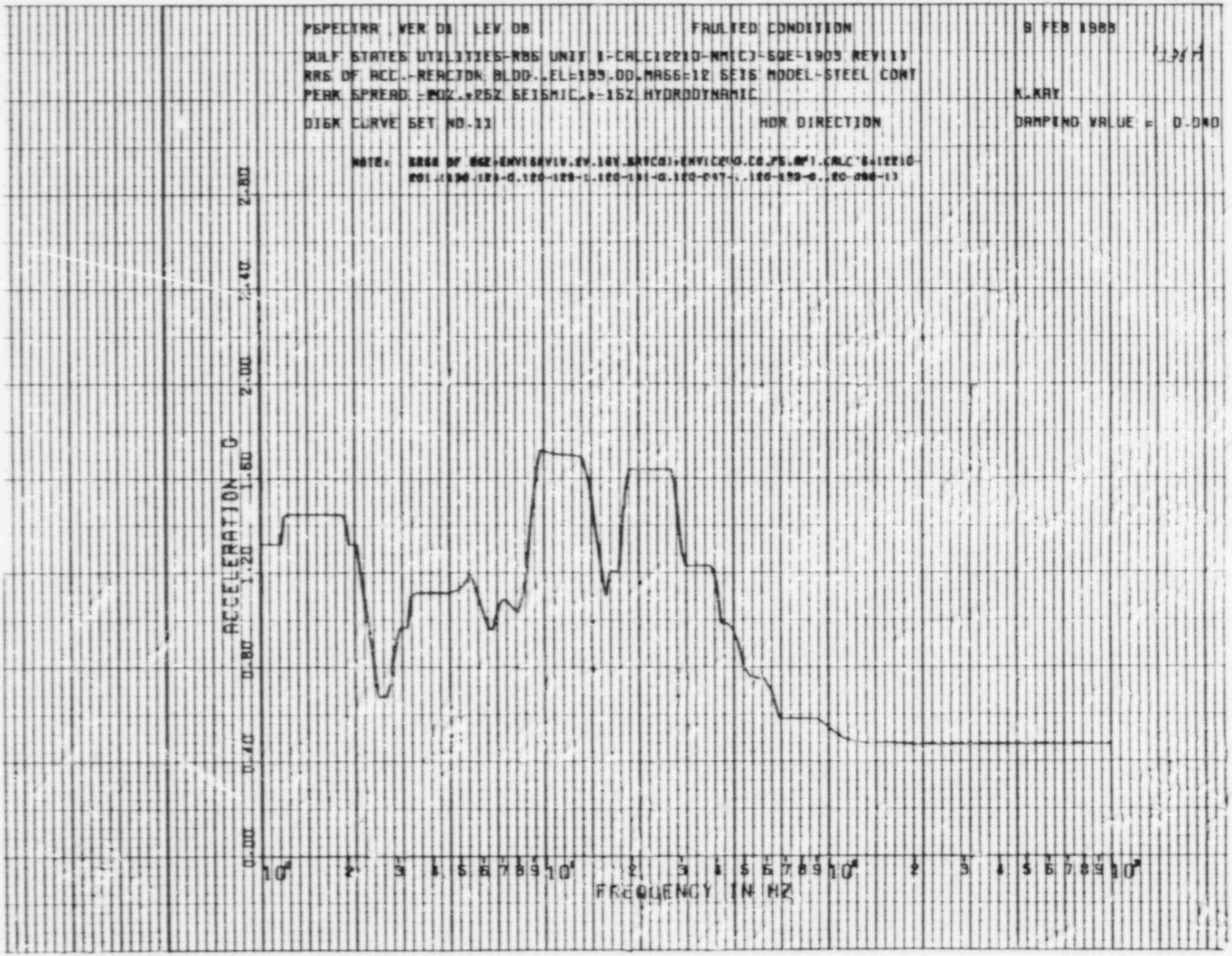

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=133.00,MASS=12 SEIS MODEL-STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.11
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: SRSS OF SSE+ENV(SRV1V.2V.1BV.SRVC0)+ENV(CHUG.CO.PB.AP).CALC'S=(12210-201.(190.124-0.180-125-1.180-101-0.190-047-1.180-138-0.(20-086-1)
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
10^0
2
3
4
5
6
7
8
9
10^1
2
3
4
5
6
7
8
9
10^2
2
3
4
5
6
7
8
9
10^3
FREQUENCY IN HZ


PSPECTRA VER 01 LEV 00
FAULTED CONDITION
9 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-69E-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=133.00,MASS=12 SEIS MODEL-STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.RAY
DISK CURVE SET NO.11
HOR DIRECTION
DAMPING VALUE = 0.080
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

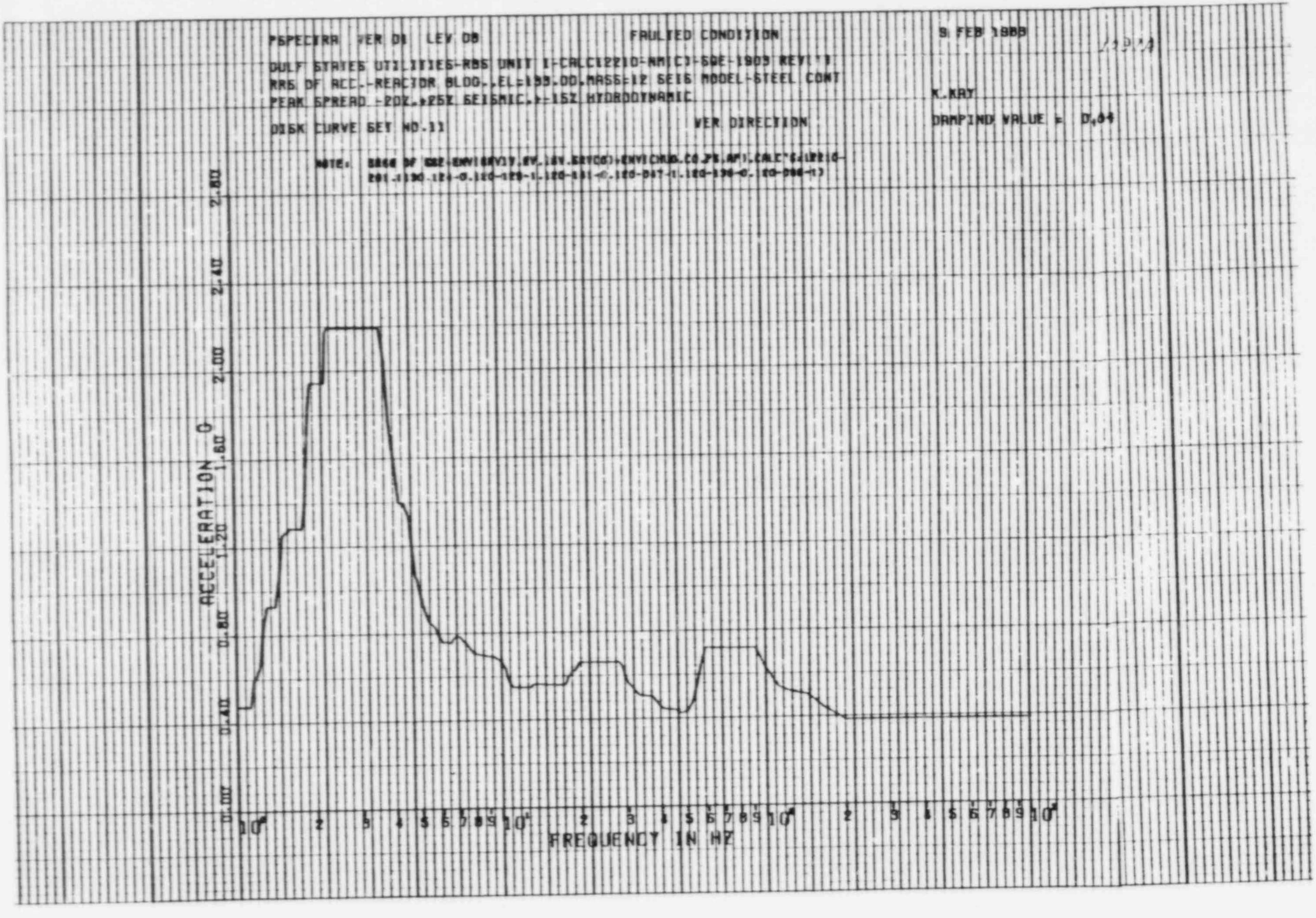
REF 47

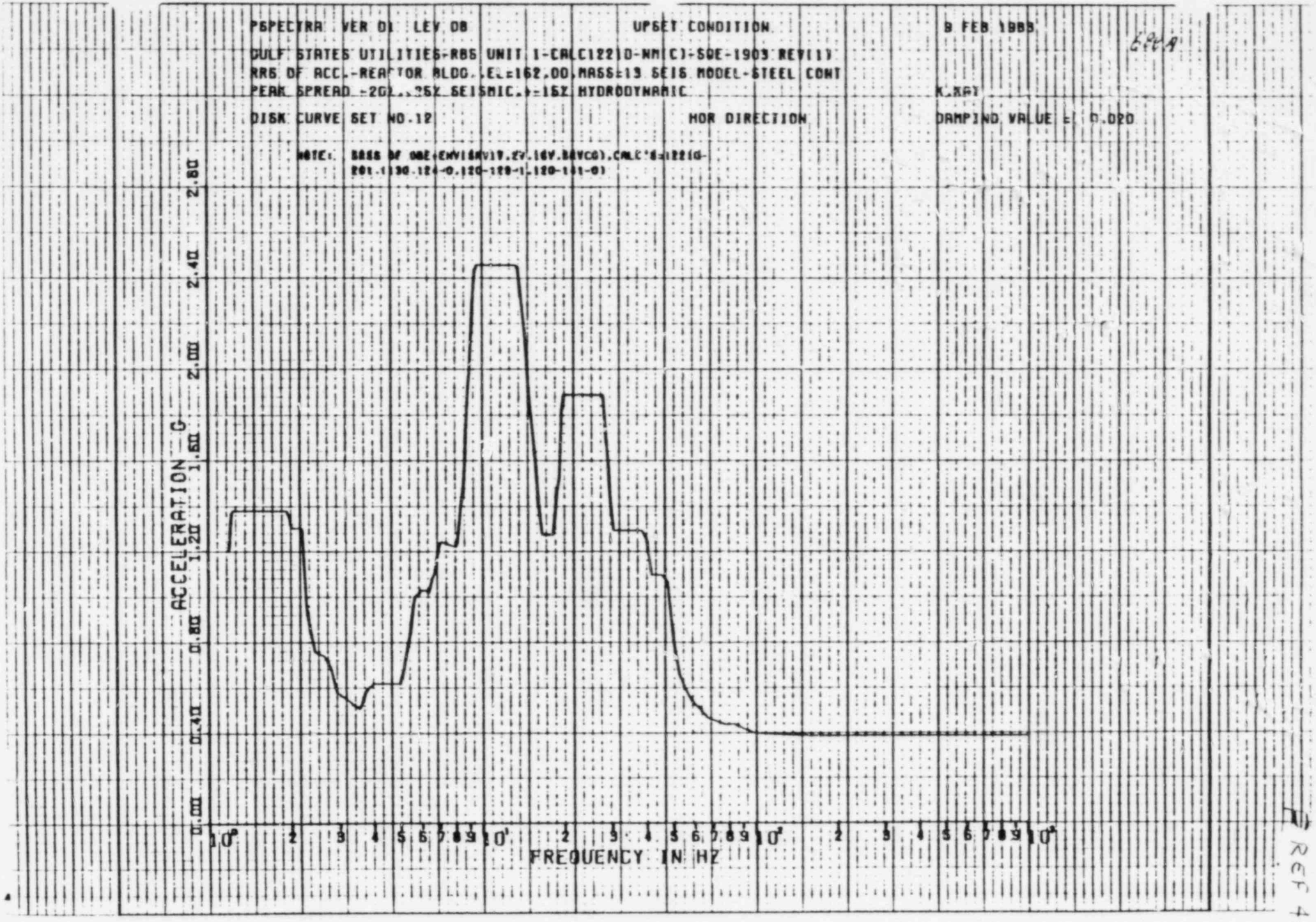


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=133.00,MASS=17 SEIS MODEL-STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.11
VER DIRECTION
DAMPING VALUE = 0.030
ACCELERATION G
2.80
2.40
2.00
1.60
1.20
0.80
0.40
0.00
FREQUENCY IN HZ

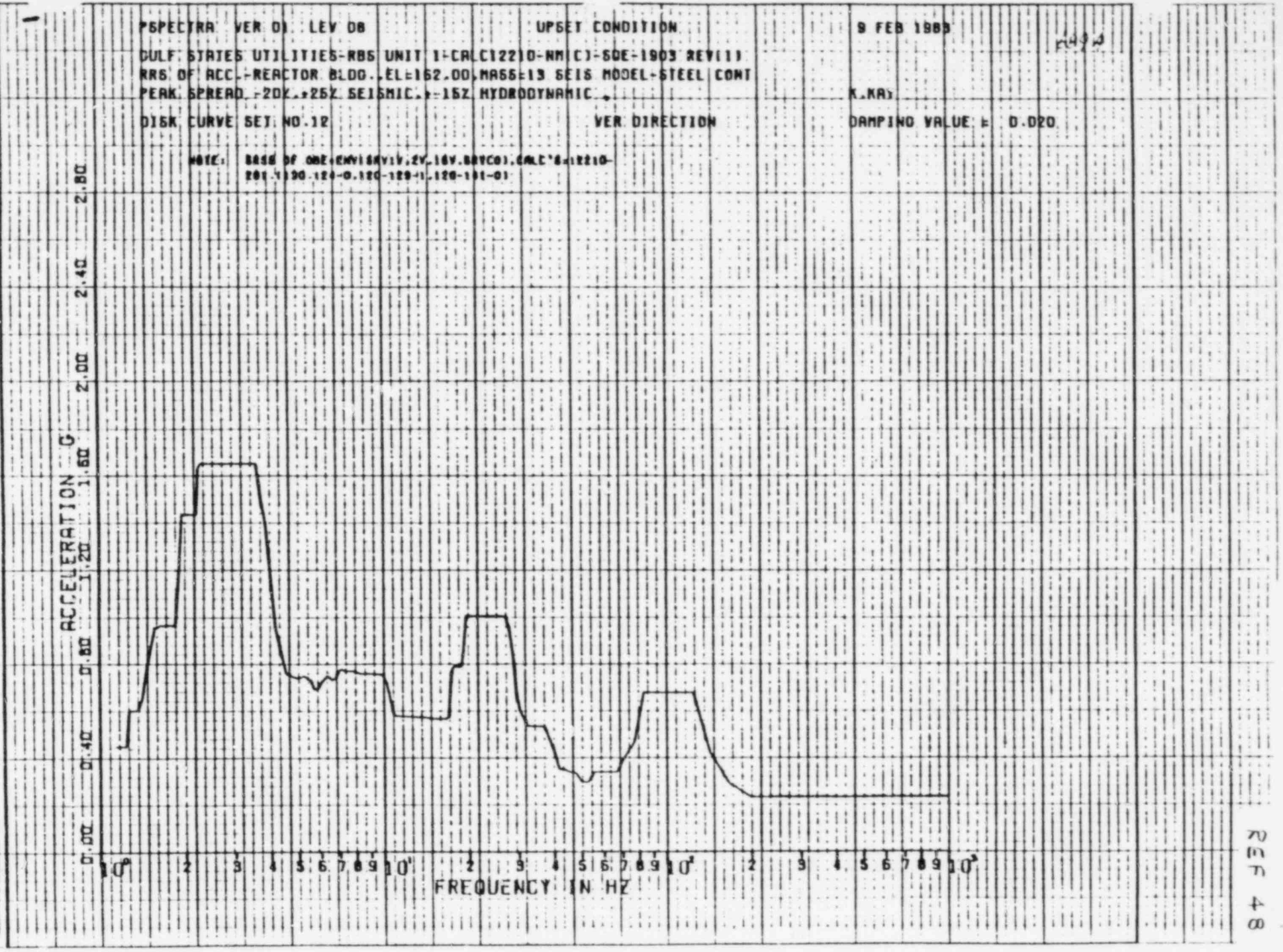

RESPECTRA VER 01 LEV 08 FAULTED CONDITION 8 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-SQE-1905 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=155.00,MASS=12 SEIS MODEL-STEEL CONT
PEAK SPREAD -HOZ.+25Z SEISMIC,+-15Z HYDRODYNAMIC
K.KAY
DISK CURVE SET NO-11 HOR DIRECTION DAMPING VALUE = 0.040
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

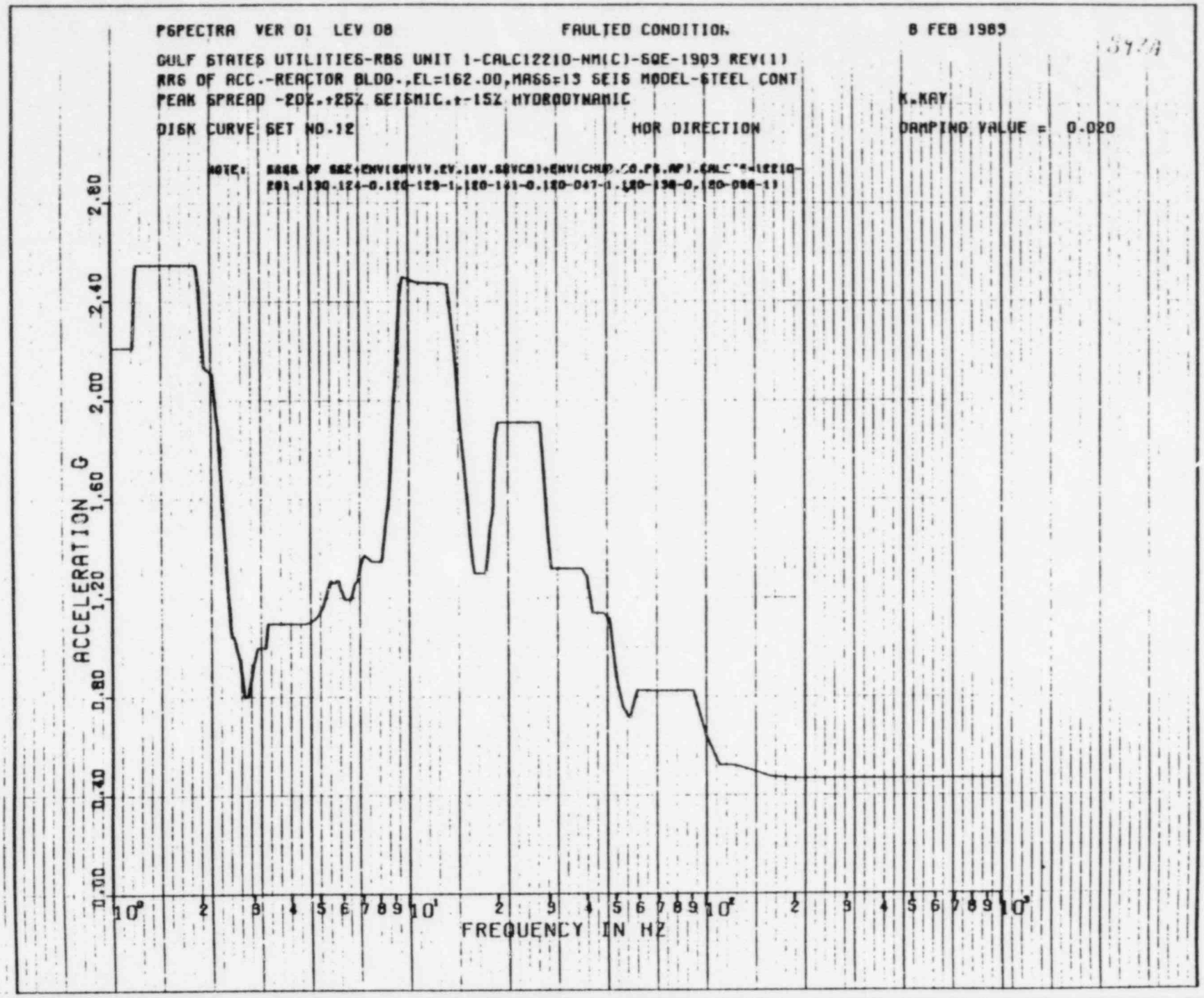
REF 47


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC(12210-NM(C)-SQE-1903 REV(")
RRS OF ACC.-REACTOR BLDG.,EL=133.00,MASS=12 SEIS MODEL-STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.11
VER DIRECTION
DAMPING VALUE = 0.04
NOTE:
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ
10⁰
10¹
10²
10³

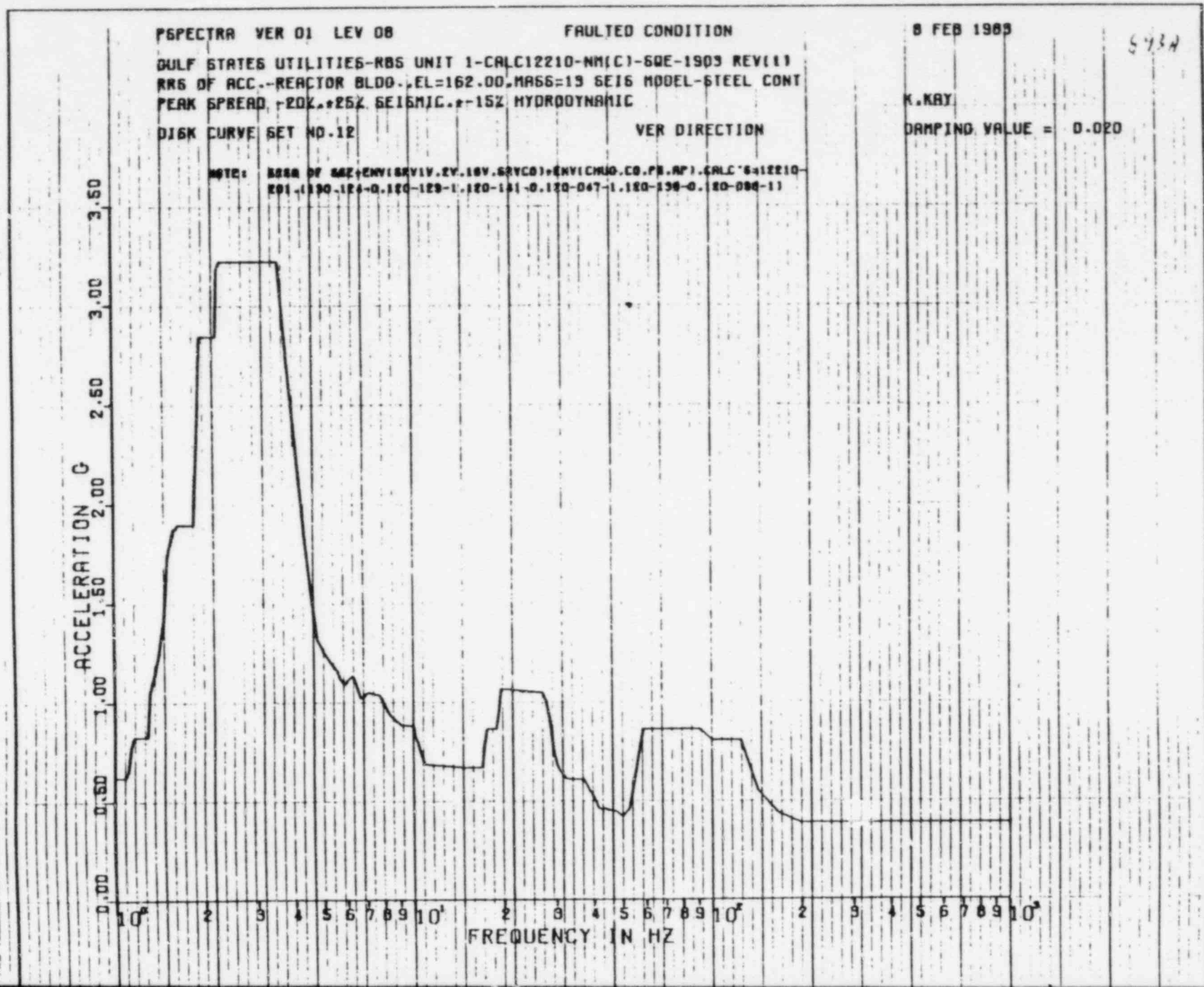

PSPECTRA VER 01 LEV 08
UPSET CONDITION
8 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RBS OF ACC.-REACTOR BLDG. EL=162.00 MASS=13 SEIS MODEL-STEEL CONT
PEAK SPREAD =20% 35% SEISMIC, +-15% HYDRODYNAMIC
DISK CURVE SET NO.12
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: BASE OF OBE(ENVISRV17.2V.16V.BAVCG).CALC'S=12210-201.(130.124-0.120-129-1.120-101-0)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

REF 4.8

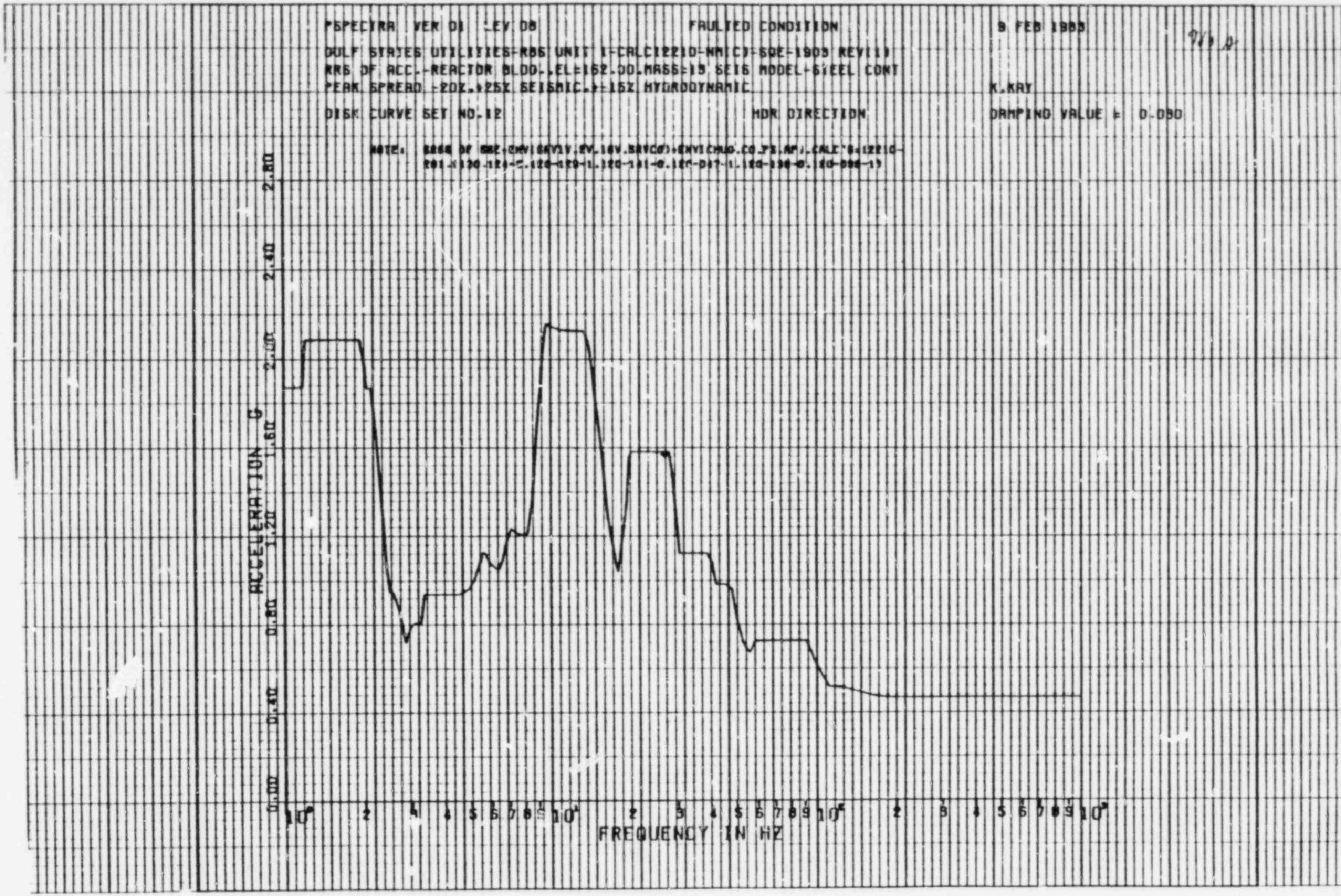

PSPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=162.00,MASS=13 SEIS MODEL-STEEL CONT
PEAK SPREAD =20%,+25% SEISMIC,+-15% HYDRODYNAMIC,
K.KA)
DISK CURVE SET NO.12
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: BASE OF ORE(ENVISRV1V,2V,16V,BRYCO),CALC'S=12210-
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
10⁰
2
3
4
5
6
7
8
9
10¹
2
3
4
5
6
7
8
9
10²
2
3
4
5
6
7
8
9
10³
FREQUENCY IN HZ

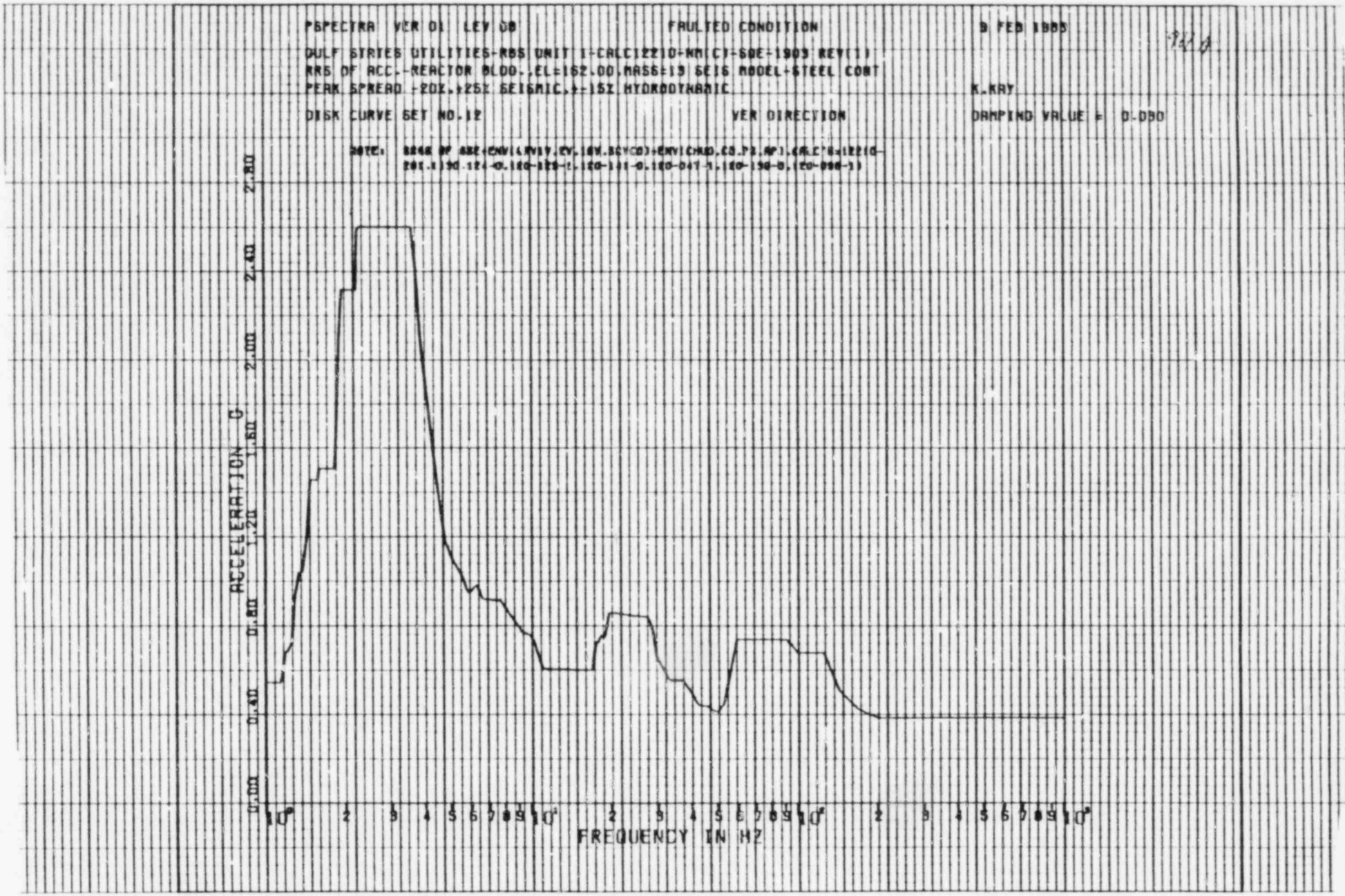

P6PECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF RCC.-REACTOR BLDG.,EL=162.00,MASS=13 SEIS MODEL-STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.12
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
FREQUENCY IN HZ

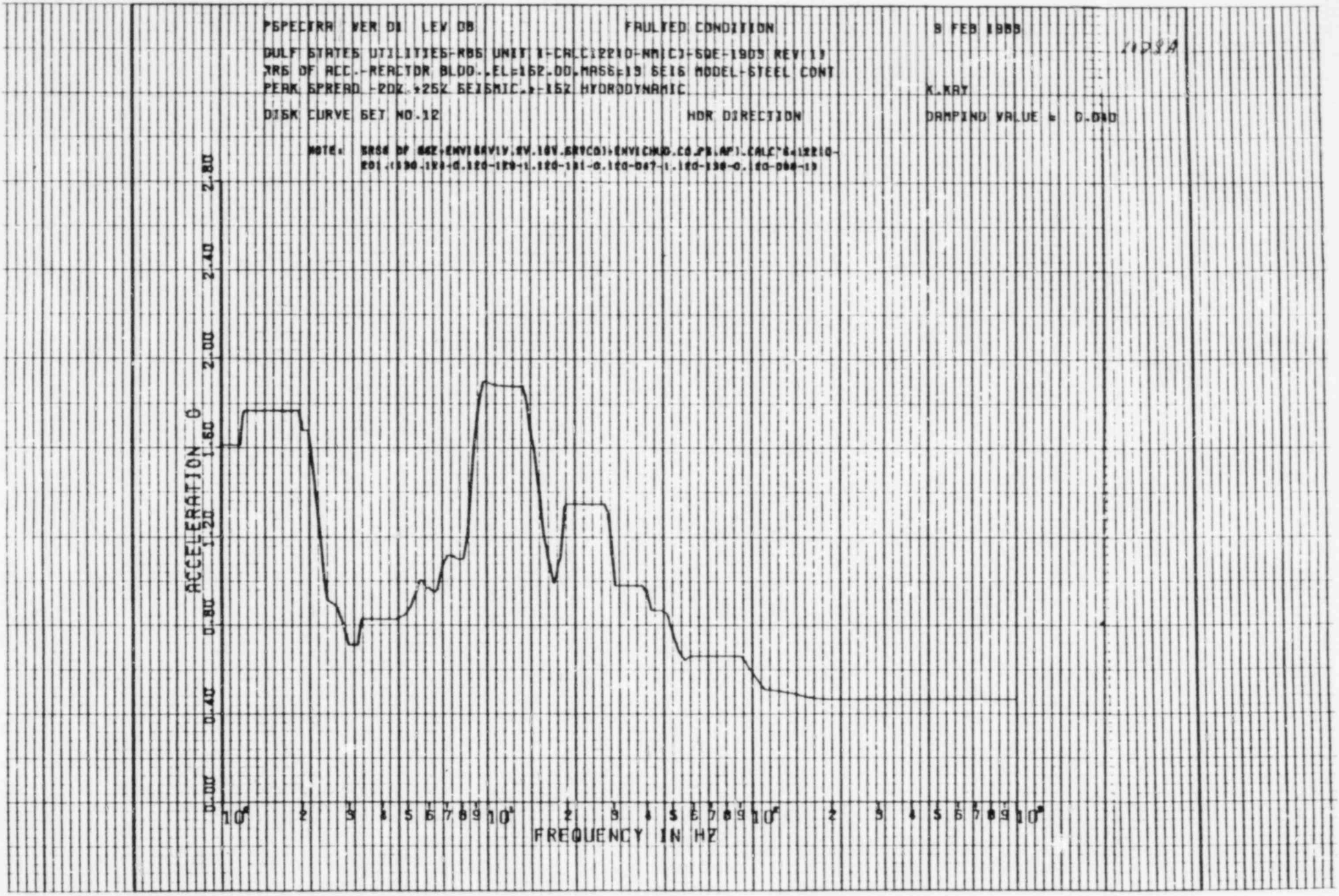
REF 48

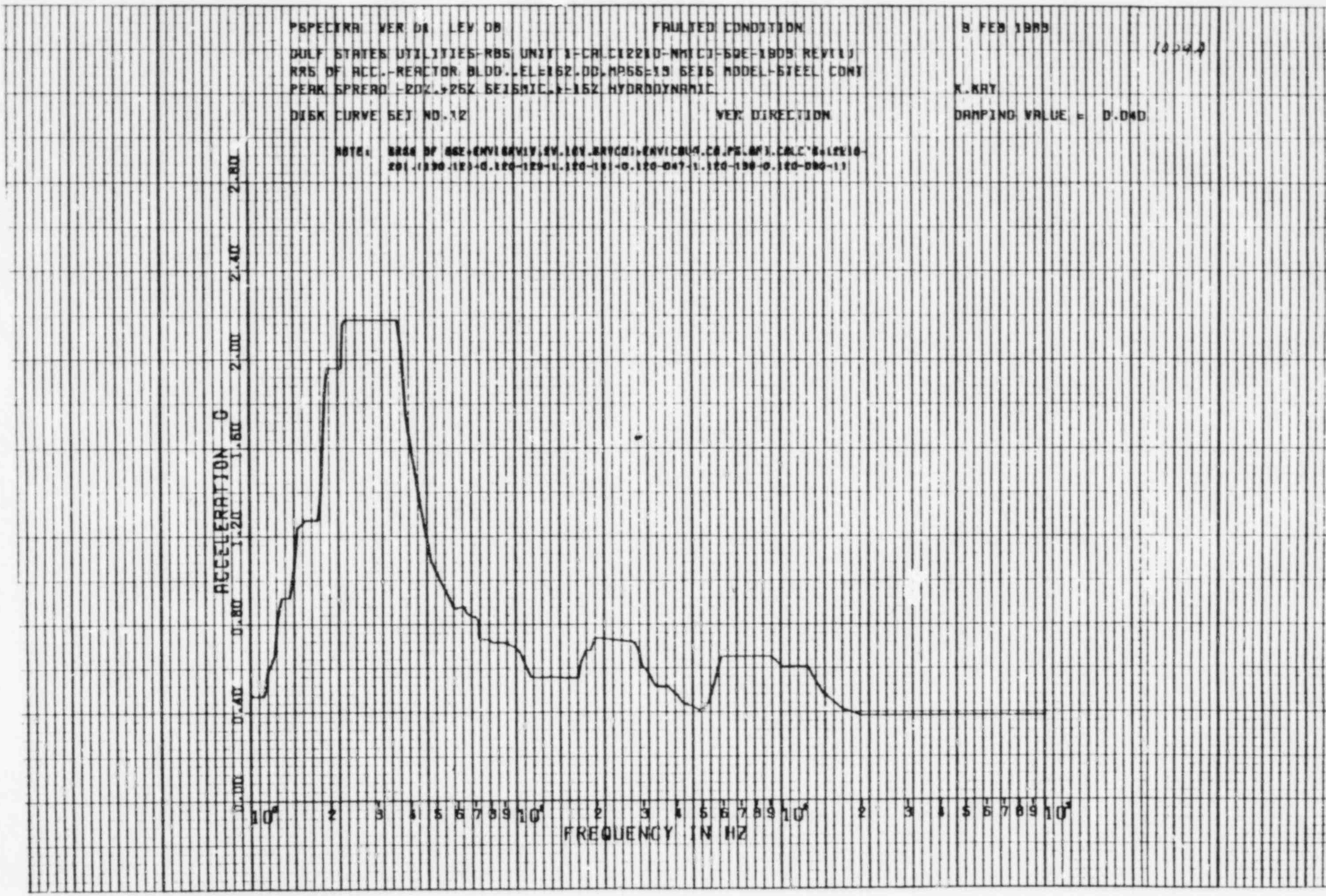

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-GQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=162.00,MASS=13 SEIS MODEL-STEEL CONT
PEAK SPREAD +20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.12
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: SRSS OF SAZ+ENV(SRV1V,ZV,1SV,SRVC0)+ENV(CHUO,CO,P8,AP),CALC'S=12210-
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ

REF 48


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=162.00,MASS=15 SEIS MODEL-STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.12
HOR DIRECTION
DAMPING VALUE = 0.080
NOTE:
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

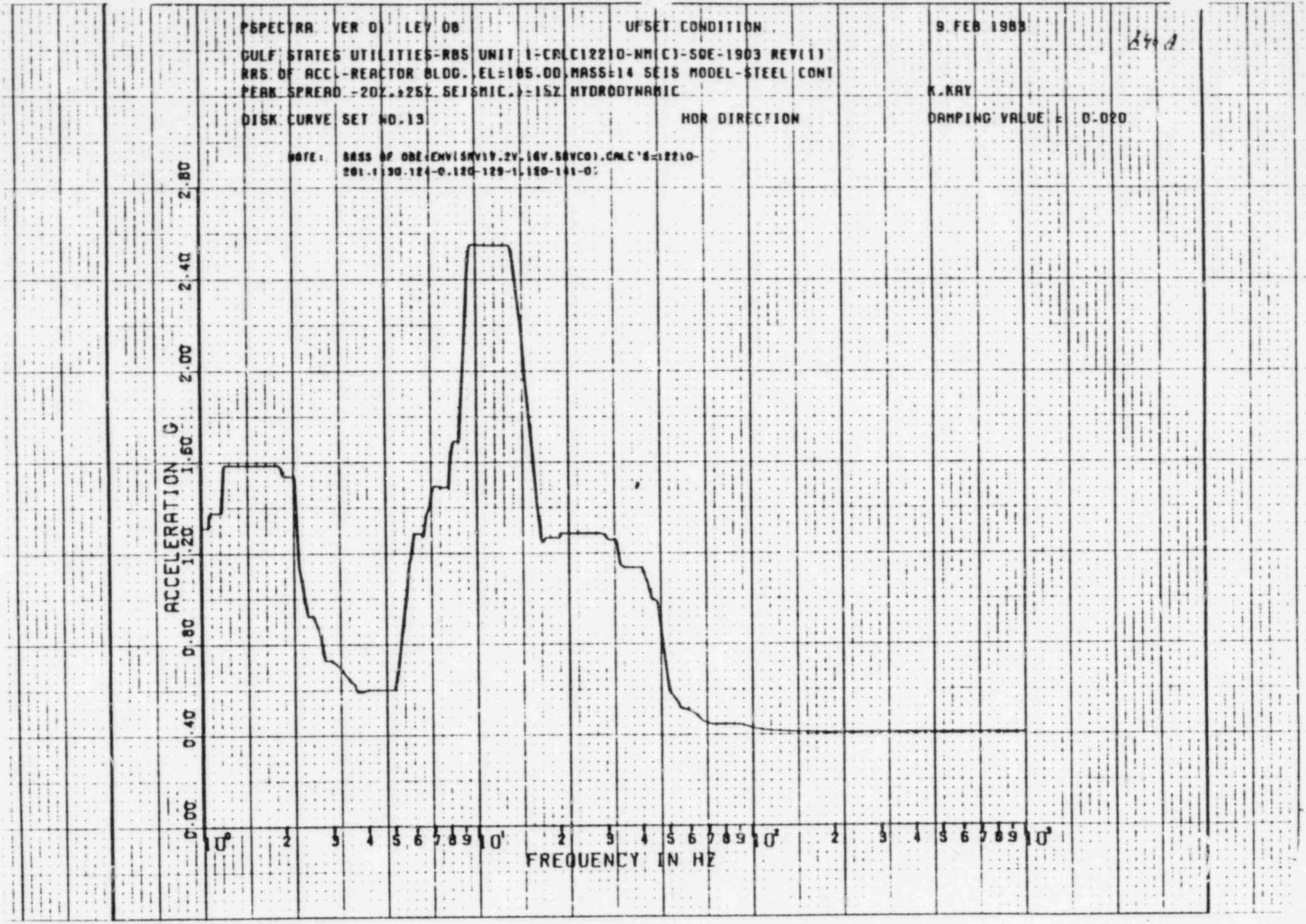

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=162.00,MASS=13 SEIS MODEL=STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.12
VER DIRECTION
DAMPING VALUE = 0.050
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

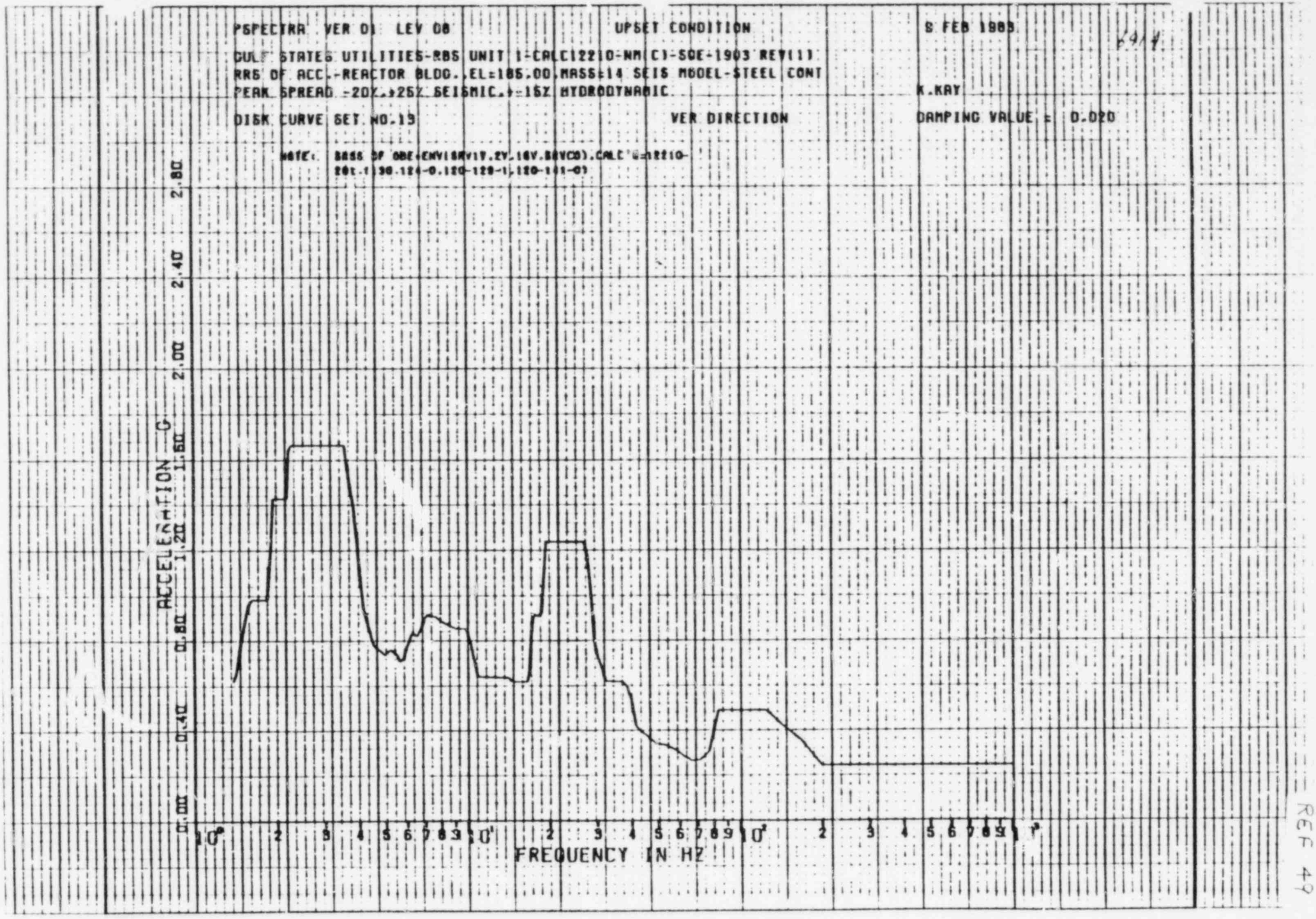

PSPECTRA VER 01 LEV 08 FAULTED CONDITION 8 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC:12210-NM(C)-SQE-1903 REV:13
ARS OF ACC.-REACTOR BLDG. EL=152.00 MASS=13 SEIS MODEL-STEEL CONT
PEAK SPREAD -20% +25% SEISMIC +-15% HYRODYNAMIC
K.KAY
DISK CURVE SET NO.12 HOR DIRECTION DAMPING VALUE = 0.040
NOTE: SRSS OF SQZ+ENV(SQV1,SV.10Y,SRYCO)+ENV(CHXO.CO,PS,AF)-CALC'&(12210-
20)(.(130.1X0+0.120-129+1.120-131-0.120-047-1.120-130-0.120-050-1)
ACCELERATION G
2.80
2.40
2.00
1.60
1.20
0.80
0.40
0.00
10⁰ 2 3 4 5 6 7 8 9 10¹ 2 3 4 5 6 7 8 9 10² 2 3 4 5 6 7 8 9 10³
FREQUENCY IN HZ



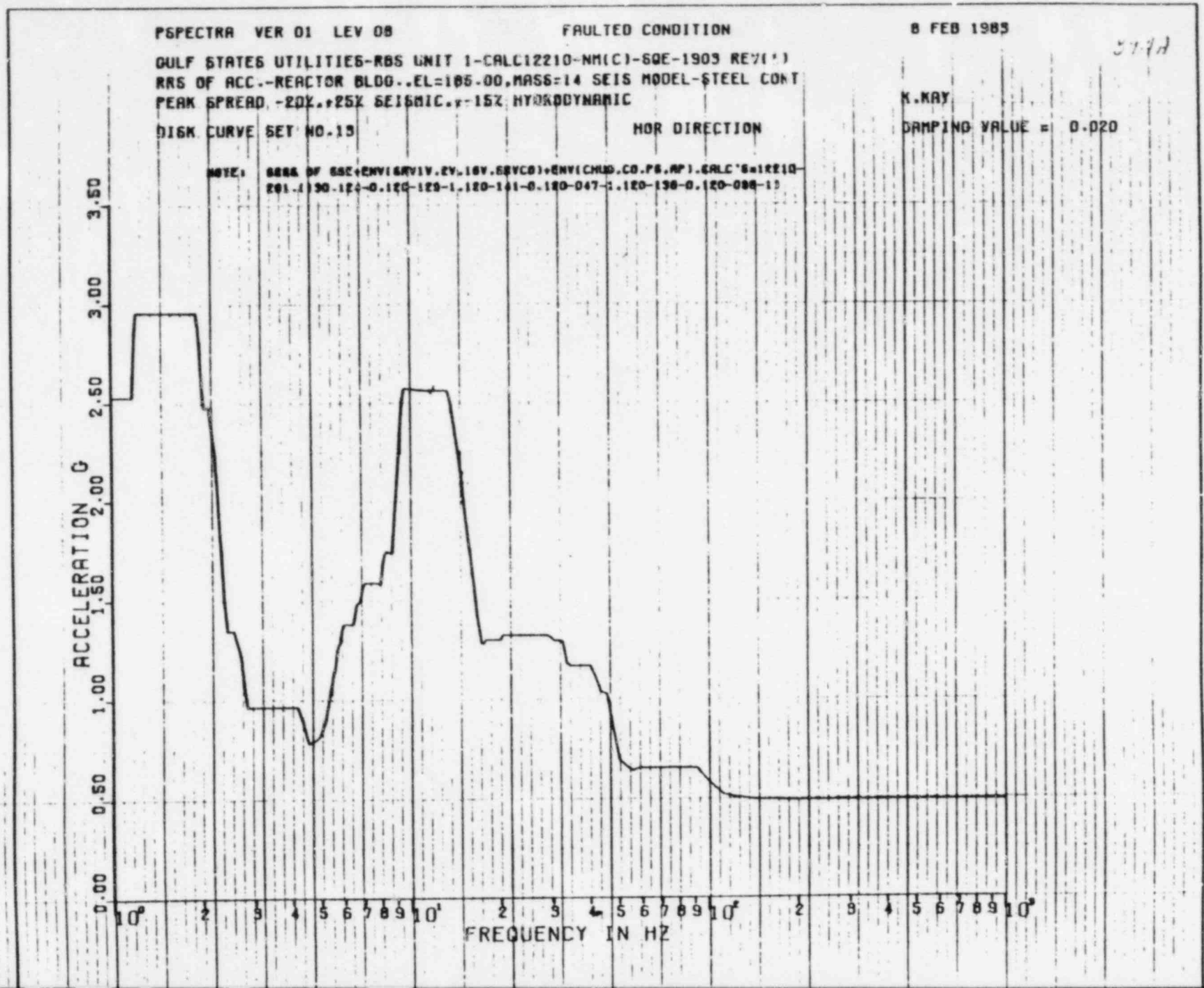
PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC(22)D-NM(C)-SDE-1803 REV(1)
RRS OF ACC.-REACTOR BLDG.-EL=162.00-MASS=19 SEIS MODEL-STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.12
VER DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

REF 4 C

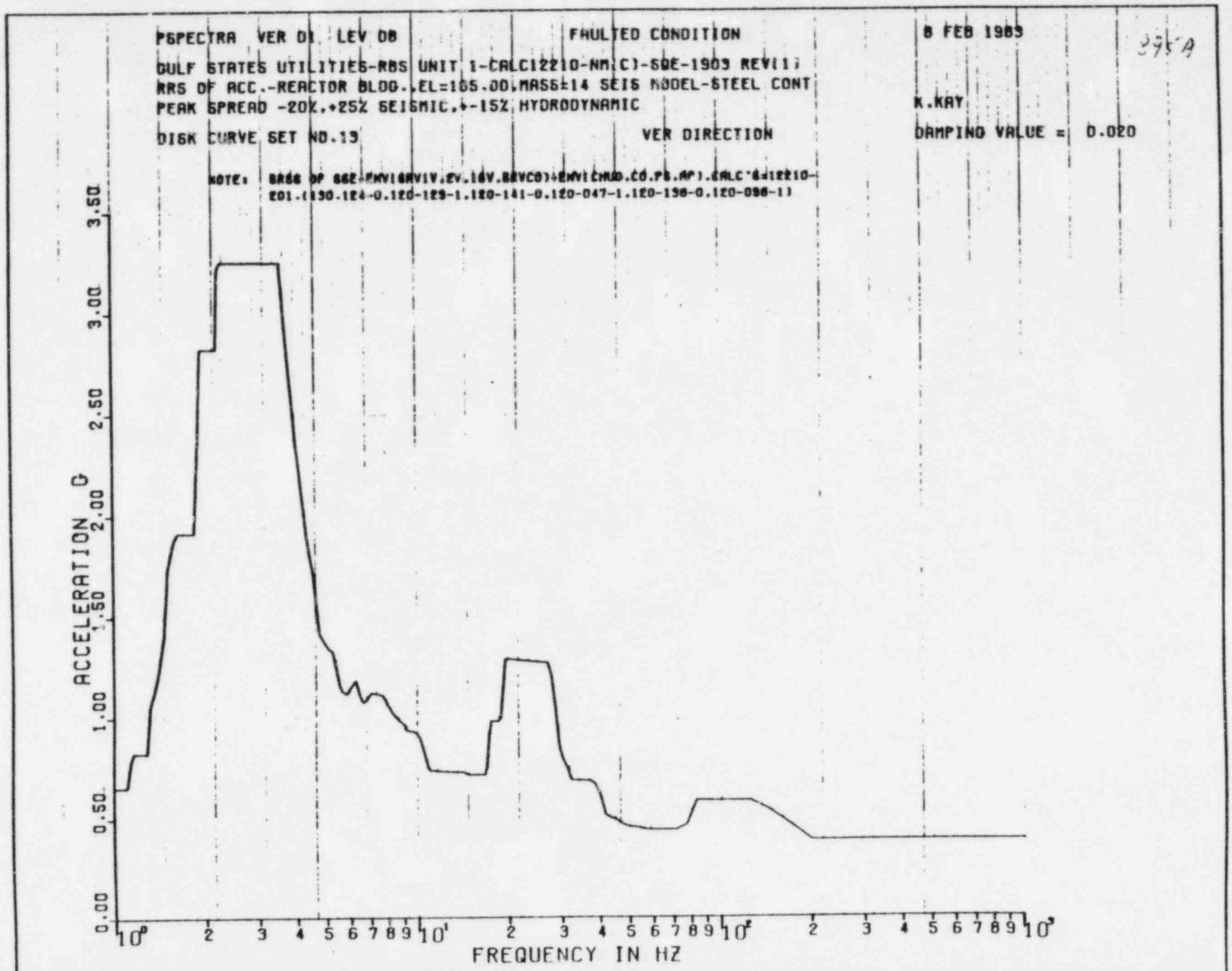

SPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG., EL=185.00, MASS=14 SEIS MODEL-STEEL CONT
PEAK SPREAD =20%,±25% SEISMIC,)=15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.13
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: BASS OF OBE(ENV(SRV19.2V,16V.58VCO).CALC'S=12210-
201.1)30.124-0.120-129-1.120-141-0;
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
10⁰
2
3
4
5
6
7
8
9
10¹
2
3
4
5
6
7
8
9
10²
2
3
4
5
6
7
8
9
10³
FREQUENCY IN HZ

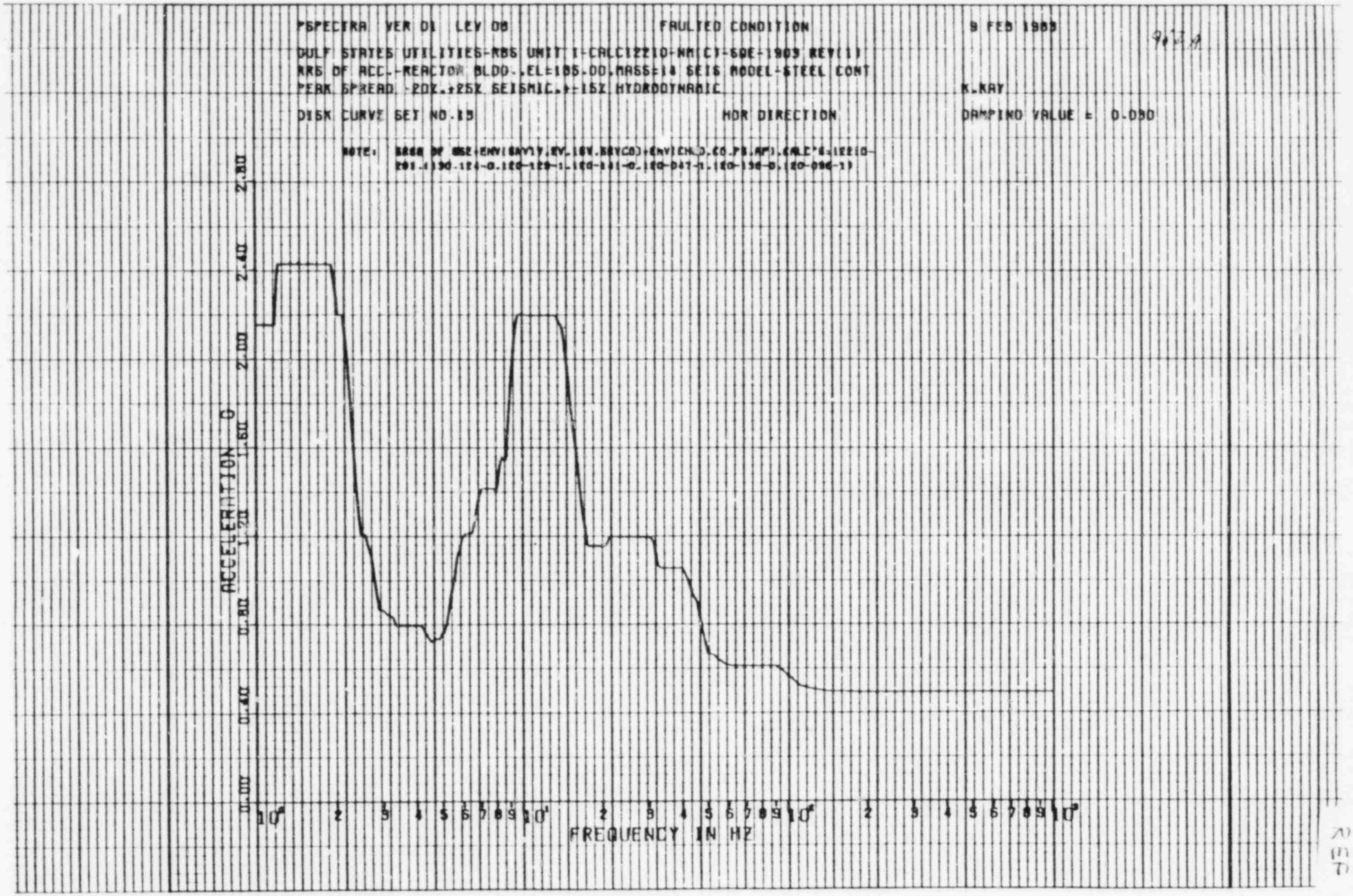

PSPECTRR VER 01 LEV 08
UPSET CONDITION
8 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM C1-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG., EL=185.00 MASS=14 SEIS MODEL-STEEL CONT
PEAK SPREAD =20%,+25% SEISMIC,+=15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.13
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: BASE OF OBE+ENV(SRV(1Y,2Y,1V,BBVC0),CALC'G=12210-
ACCELERATION G
FREQUENCY IN HZ

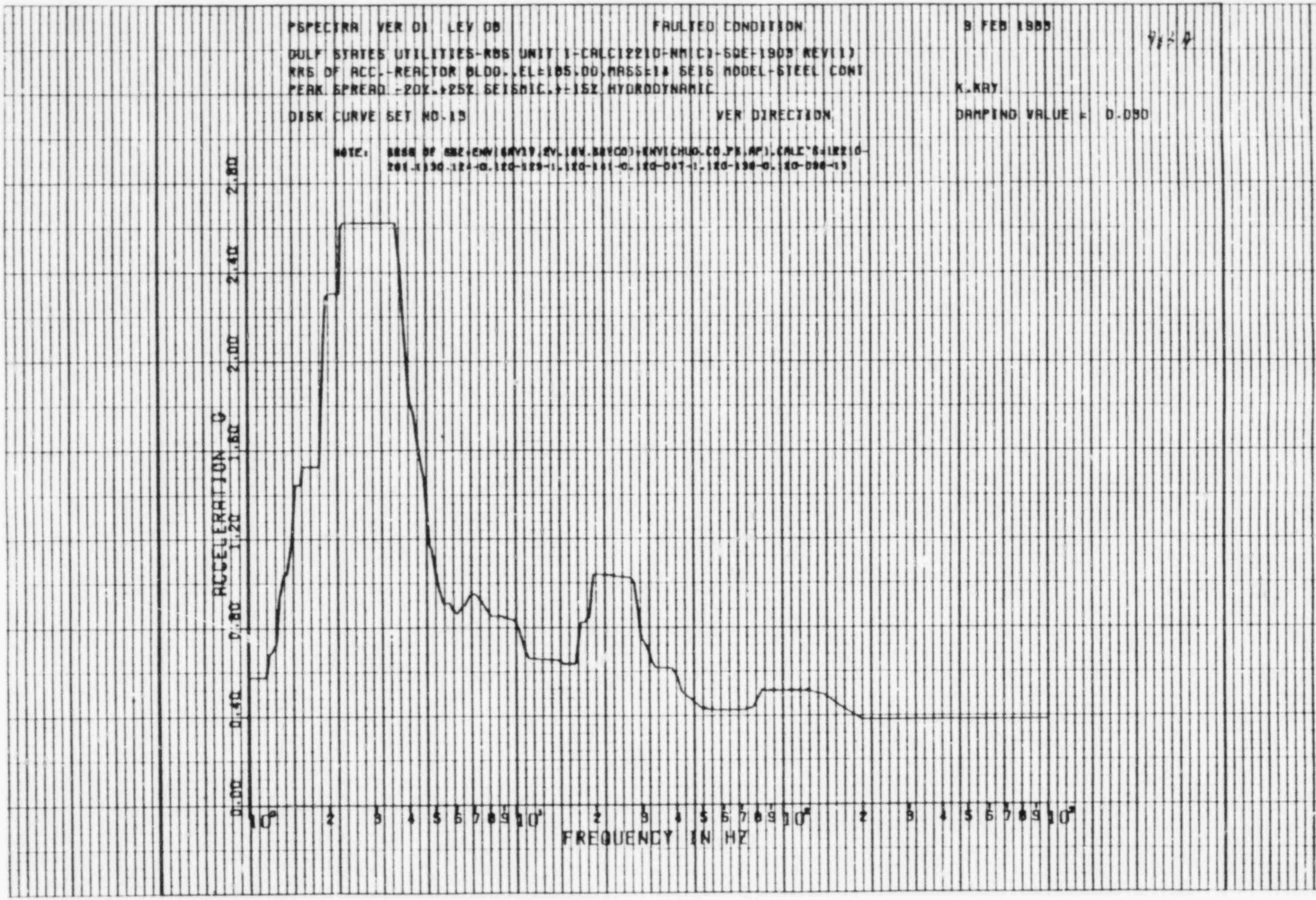
REF 49


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(*)
RRS OF ACC.-REACTOR BLDG..EL=185.00,MASS=14 SEIS MODEL-STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.15
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: SRSS OF SSE+ENV(SRV1V.2V.1BV.SBVCB)+ENV(CHUG.CO.PB.AP).CALC'S=12210-
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ

REF 49

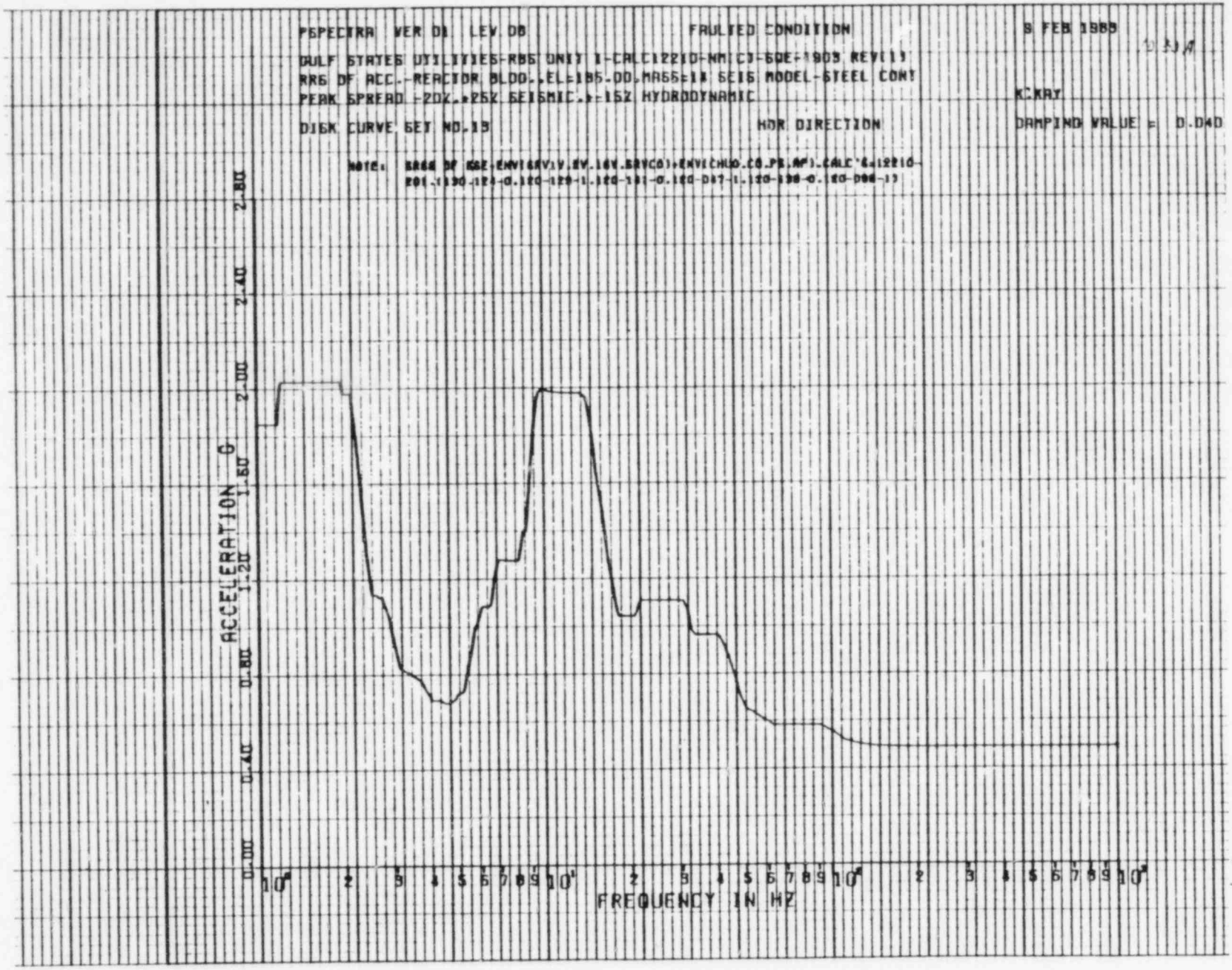

SPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=185.00,MASS=14 SEIS MODEL-STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.19
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: BASE OF SSE-ENV1&RV1V,EV,1&V,SSEVC8)+ENV1(HWD,CO,P8,AP),CALC 8+12210-
E01.(130,124-0.120-129-1.120-141-0.120-047-1.120-158-0.120-098-1)
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
10^0
2
3
4
5
6
7
8
9
10^1
2
3
4
5
6
7
8
9
10^2
2
3
4
5
6
7
8
9
10^3
FREQUENCY IN HZ


SPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1989
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MM(C)-SQE-1903 REV(1)
RBS OF REC.-REACTOR BLDG.,EL=105.00,MASS=18 SEIS MODEL-STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.13
HOR DIRECTION
DAMPING VALUE = 0.050
NOTE:
ACCELERATION G
0.000
0.400
0.800
1.200
1.600
2.000
2.400
2.800
FREQUENCY IN HZ

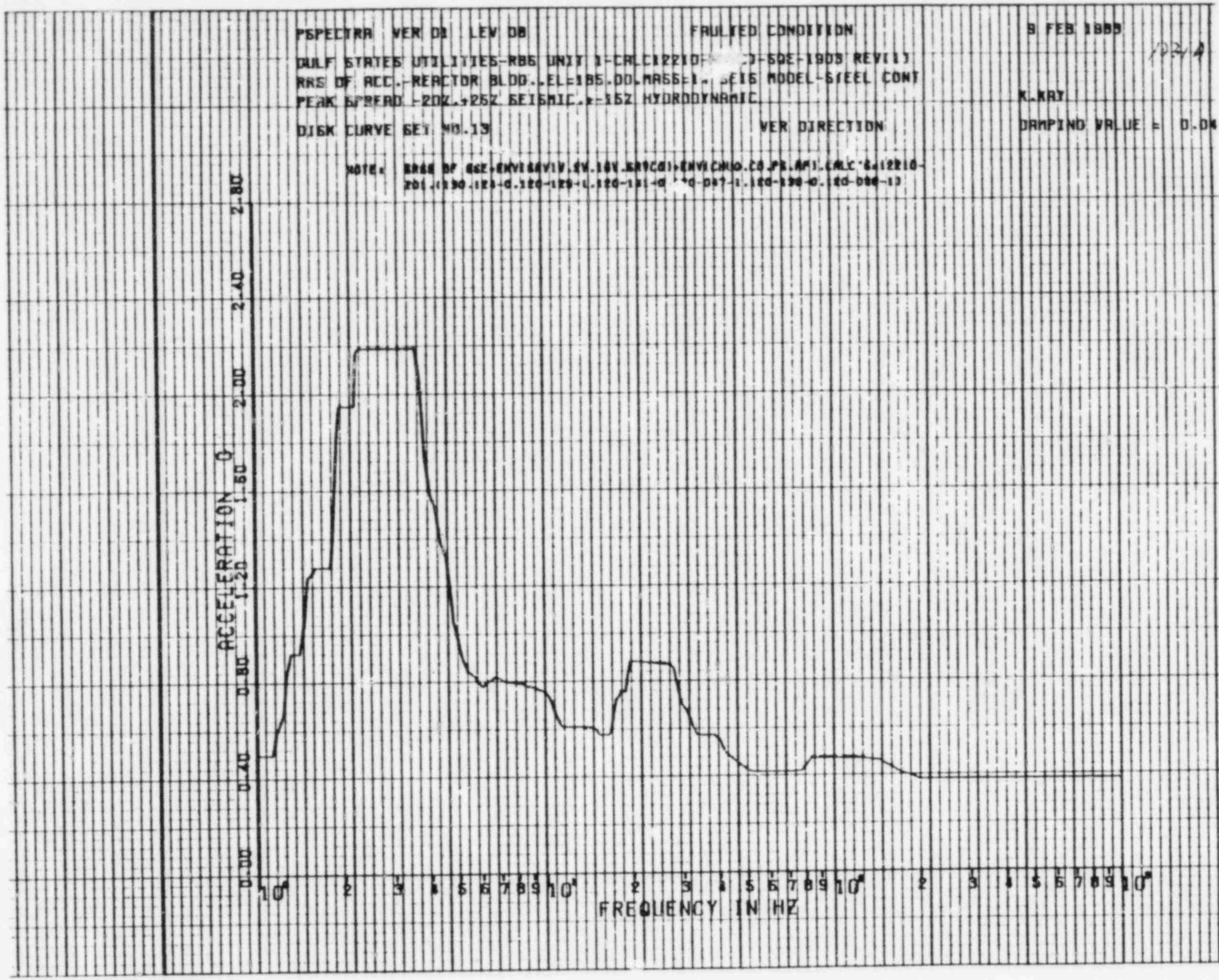


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC(12210-NM(C)-SDE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=185.00,MASS=14 SEIS MODEL-STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.RAY
DISK CURVE SET NO.13
VER DIRECTION
DAMPING VALUE = 0.030
NOTE: ENVELOPE OF SSE+ENV(SRV17,SV,(EV,SRVCO)+ENV(CHUG,CO,PS,AP),CALC'S=12210-
201.X130-124-0,120-129-1,120-141-0,120-047-1,120-130-0,120-090-1)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

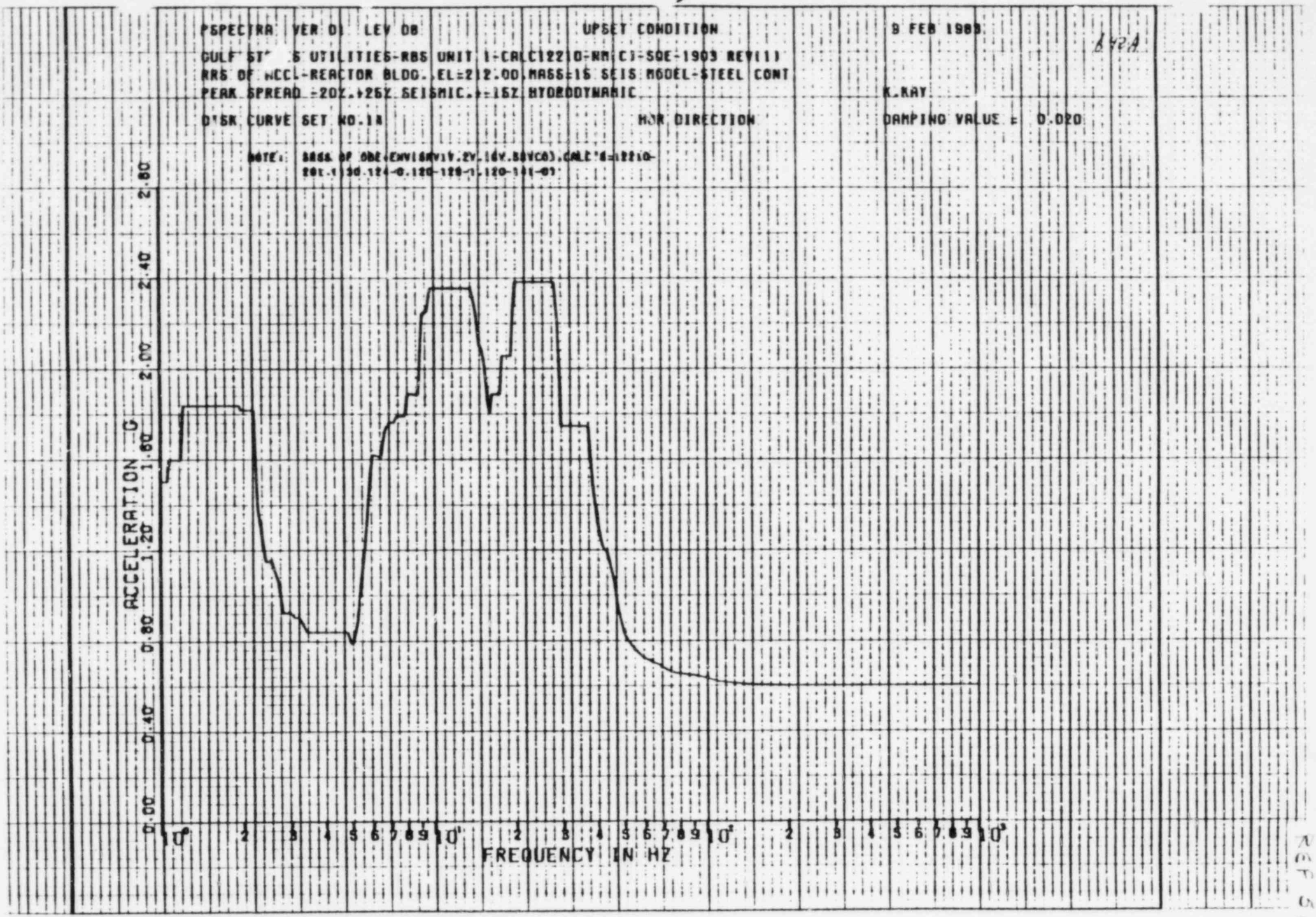
REF 49

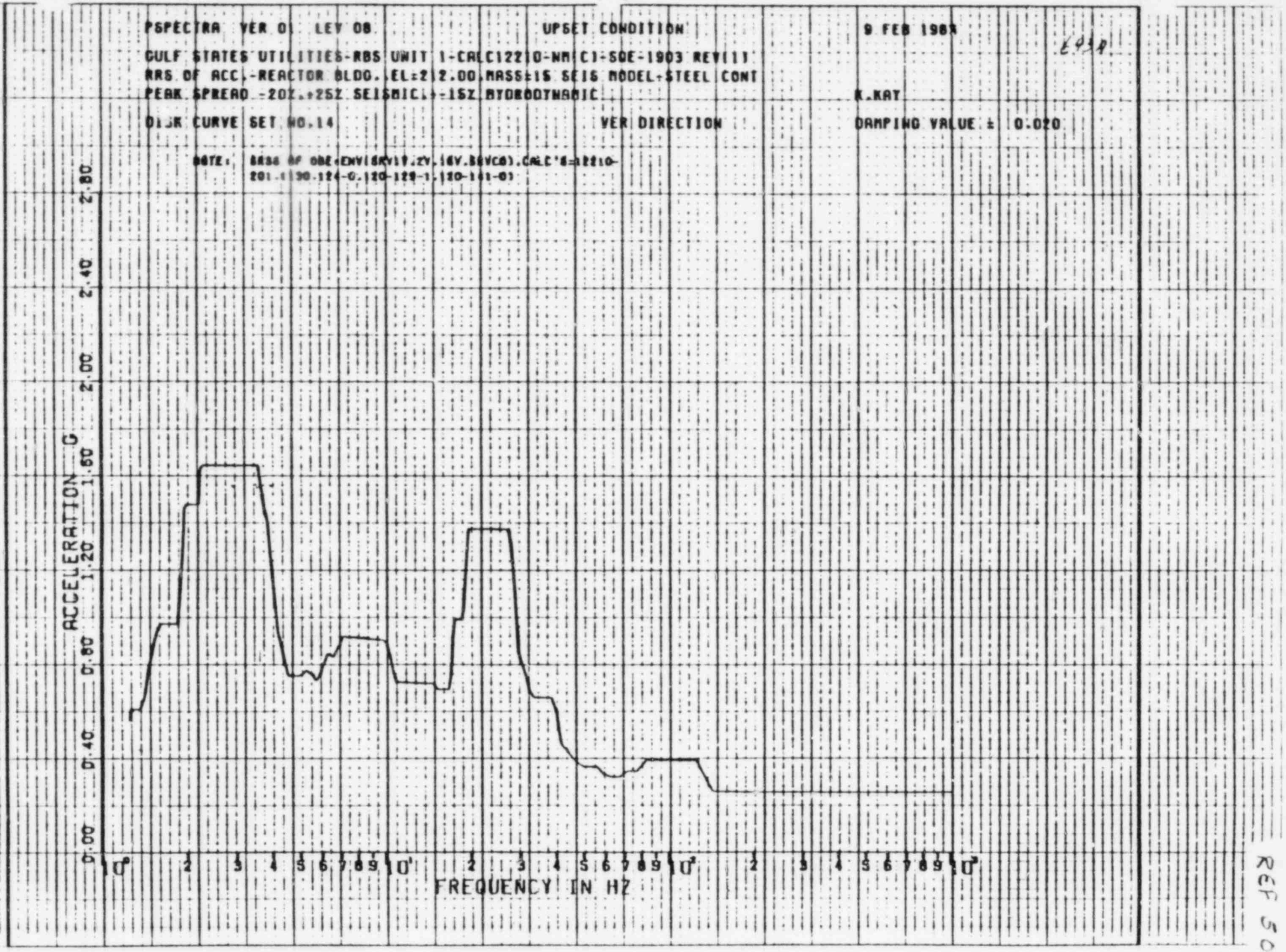

FSPECTRA VER 01 LEV 08 FAULTED CONDITION
8 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MM CD-SDE-1905 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=185-00,MASS=1% SEIS MODEL-STEEL CONT
PEAK SPREAD =20%,=25% SEISMIC,=15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.13
HOR DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

REF 49

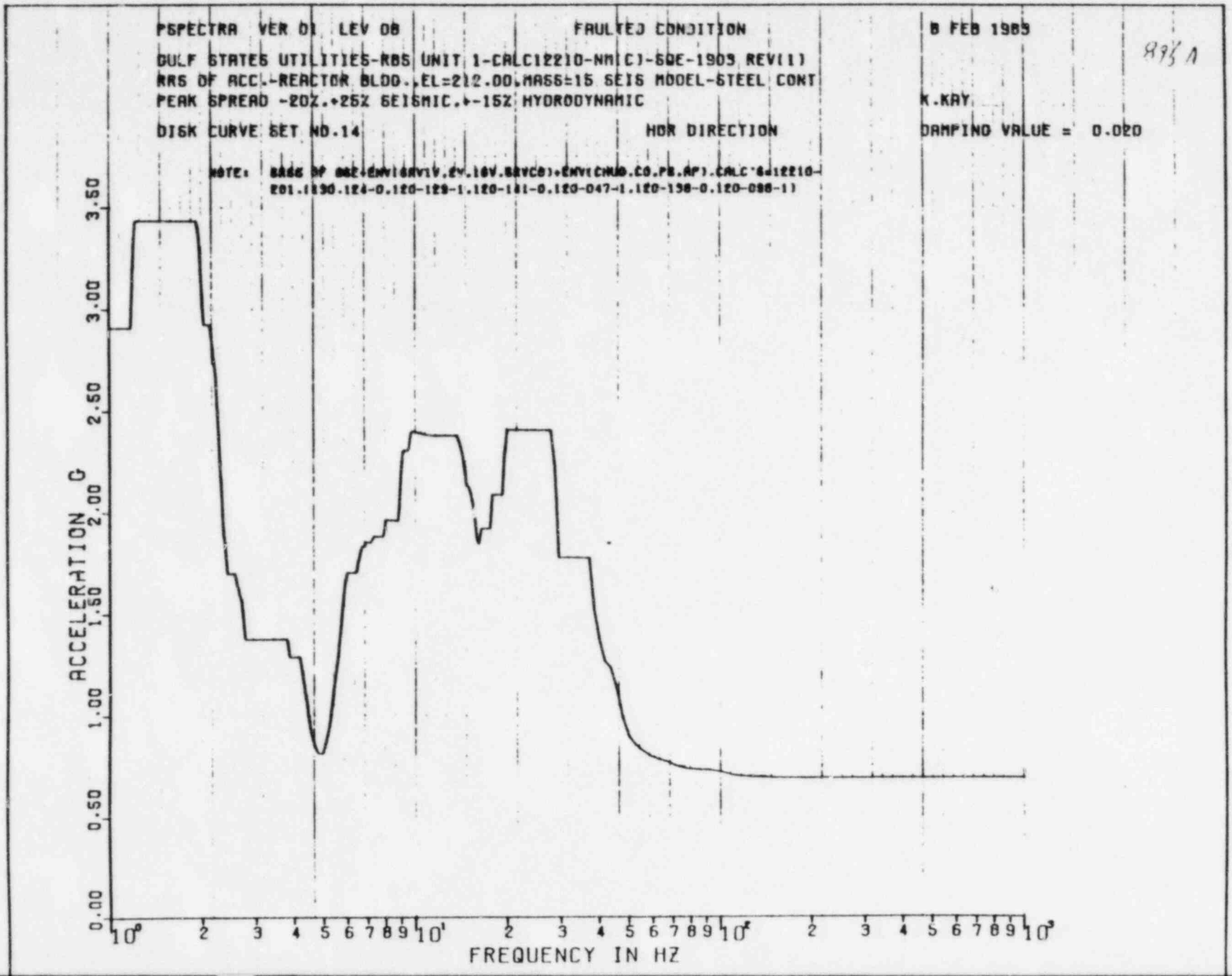

PSPECTRA VER 03 LEV 08
FAULTED CONDITION
9 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC
RRS OF ACC.-REACTOR BLDG..EL=185.00
PEAK SPREAD -20%.+25% SEISMIC.+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET
VER DIRECTION
DAMPING VALUE = 0.04
NOTE:
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

REF 49

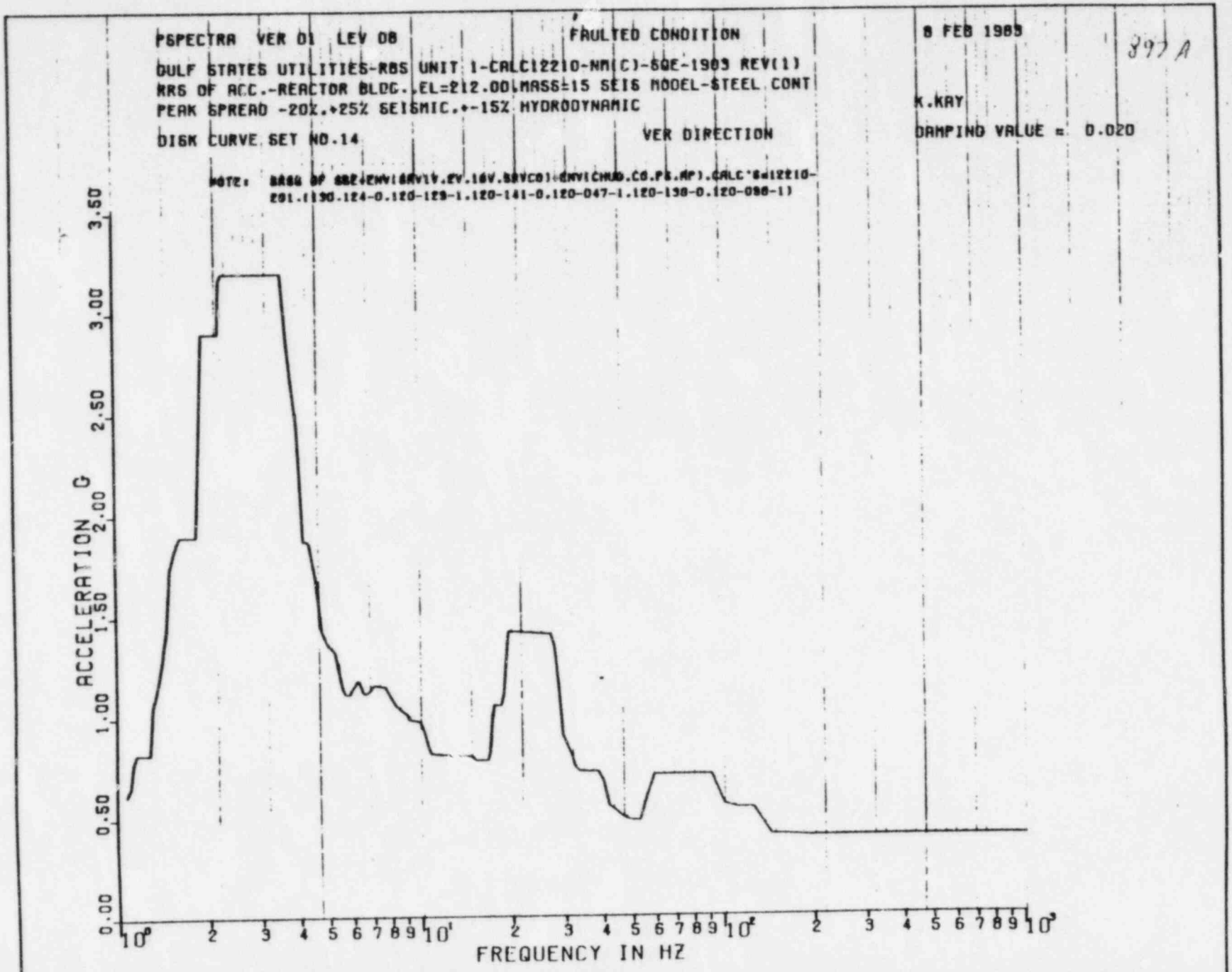

SPECTRA VER 01 LEV 08
UPSET CONDITION
8 FEB 1983
B42A
GULF ST S UTILITIES-RBS UNIT 1-CALC12210-RM C)-SQE-1903 REV(1)
RRS OF WCC1-REACTOR BLDG. EL=212.00,MASS=15 SEIS MODEL-STEEL CONT
PEAK SPREAD =20Z,+25Z SEISMIC,+=15Z HYDRODYNAMIC
K.RAY
DISK CURVE SET NO.18
MJR DIRECTION
DAMPING VALUE = 0.020
NOTE: BASE OF OBE+ENV(SRV(1.2Y,1.0V,SRVCO),CALC'S=12210-
201.1)0.124-0.120-120-1.120-101-03
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ


PSPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM C1-SQE-1903 REV[1]
RRS OF ACC.-REACTOR BLDG. EL=2|2.00 MASS±1S SEIS MODEL=STEEL CONT
PEAK SPREAD -20Z,+25Z SEISMIC,+-15Z HYDRODYNAMIC
R.KAT
DAMPING VALUE ± 0.020
DIJK CURVE SET NO.14
VER DIRECTION
NOTE: BASE OF OBE(ENV(SRV1F.ZV.16V.36VC8).CALC'S=12210-201-[30.124-0.120-129-1.120-161-0)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

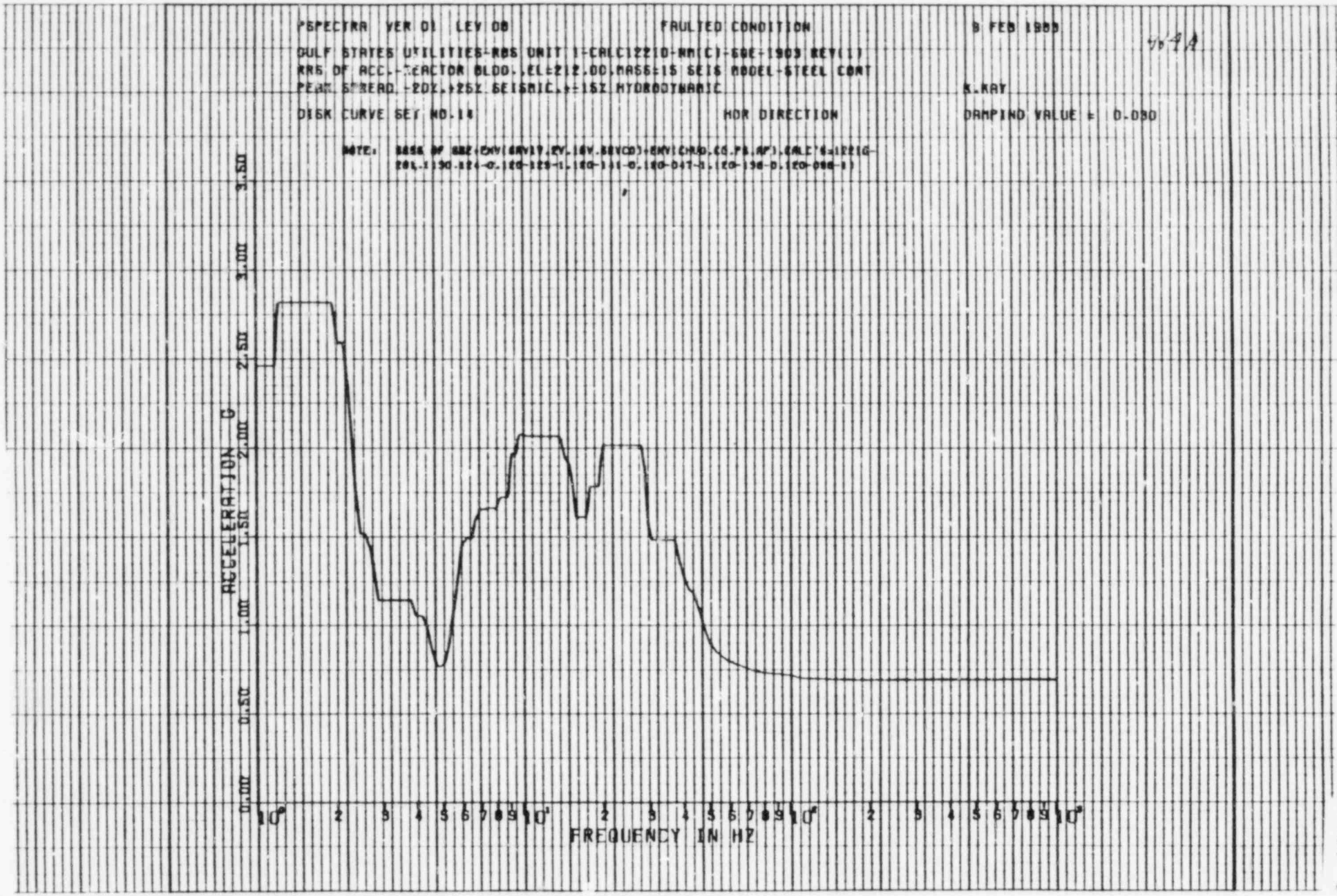
REF 50


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG., EL=212.00,MASS=15 SEIS MODEL-STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.14
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: BASE OF SSE-ENV(SRV1V,EV.10V.SRVC0)+ENV(CNUD.CO.PS.AP).CALC 6+12210-
201.1130.124-0.120-129-1.120-131-0.120-047-1.120-158-0.120-088-1)
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
10⁰
2
3
4
5
6
7
8
9
10¹
2
3
4
5
6
7
8
9
10²
2
3
4
5
6
7
8
9
10³
FREQUENCY IN HZ

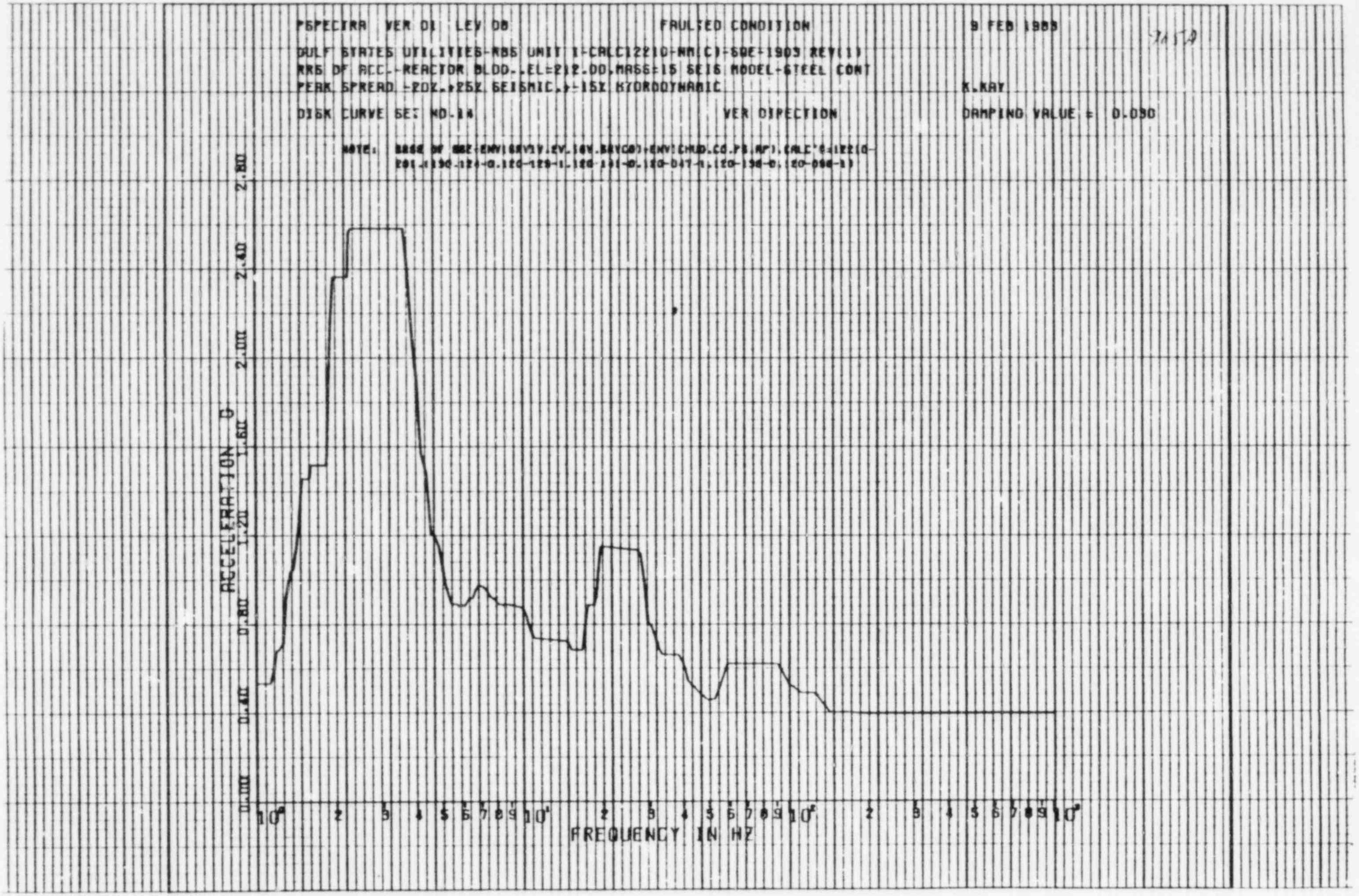
REF 50


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1985
397 A
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=212.00 MASS=15 SEIS MODEL-STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.14
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ

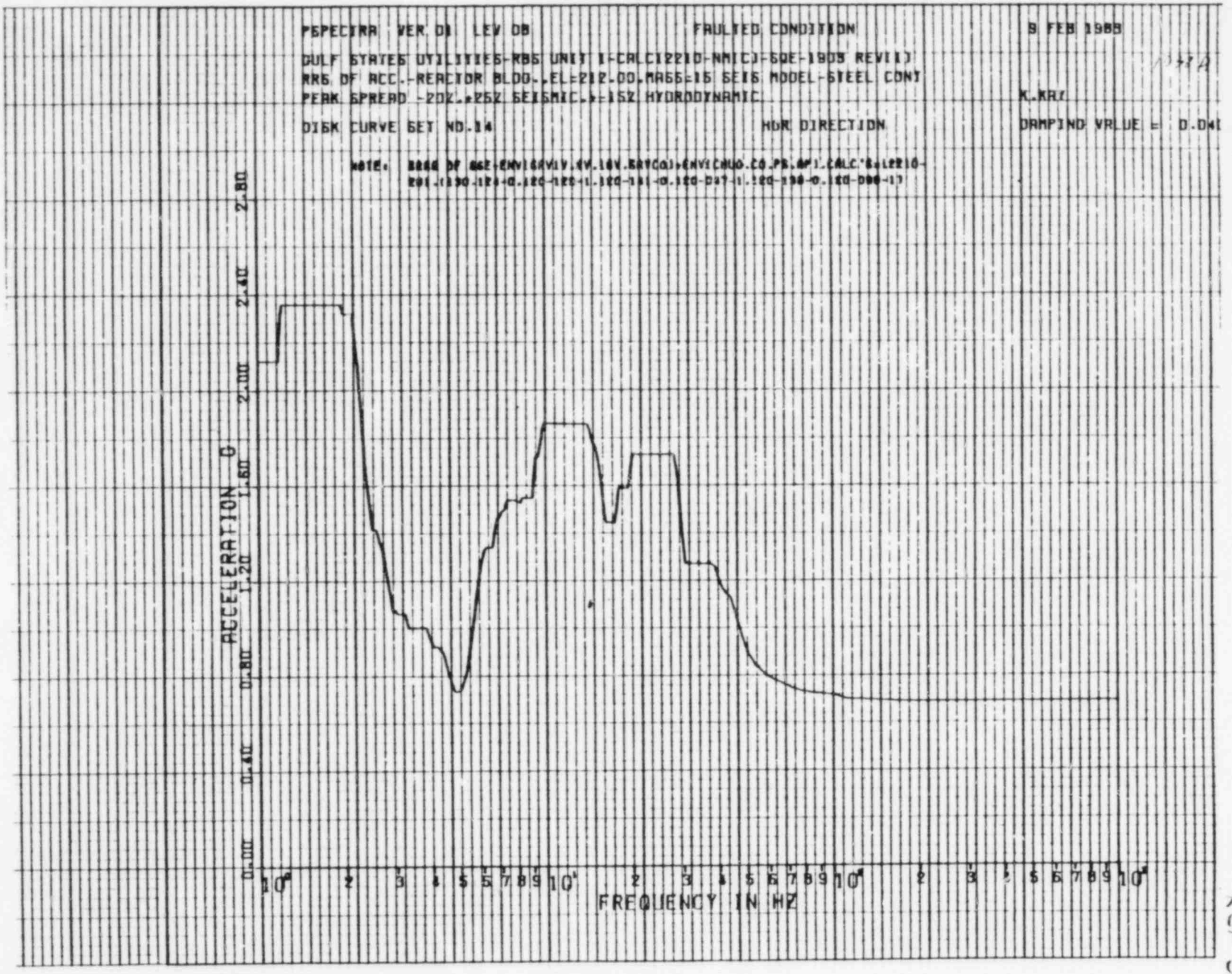
REF 50


SPECTRA VER 01 LEV 00
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MM(C)-GGE-1903 REV(1)
RBS OF ACC.-REACTOR BLDG.,EL=212.00,MASS=1S SEIS MODEL-STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
S.KAY
DISK CURVE SET NO.14
HOR DIRECTION
DAMPING VALUE = 0.030
NOTE: BASE OF RBZ(CNV(GRV19,EV,16V,80VCD)+CNV(CRHD,CS,FS,AF),CALC'G=1221G-
ACCELERATION G
FREQUENCY IN HZ

REF 50

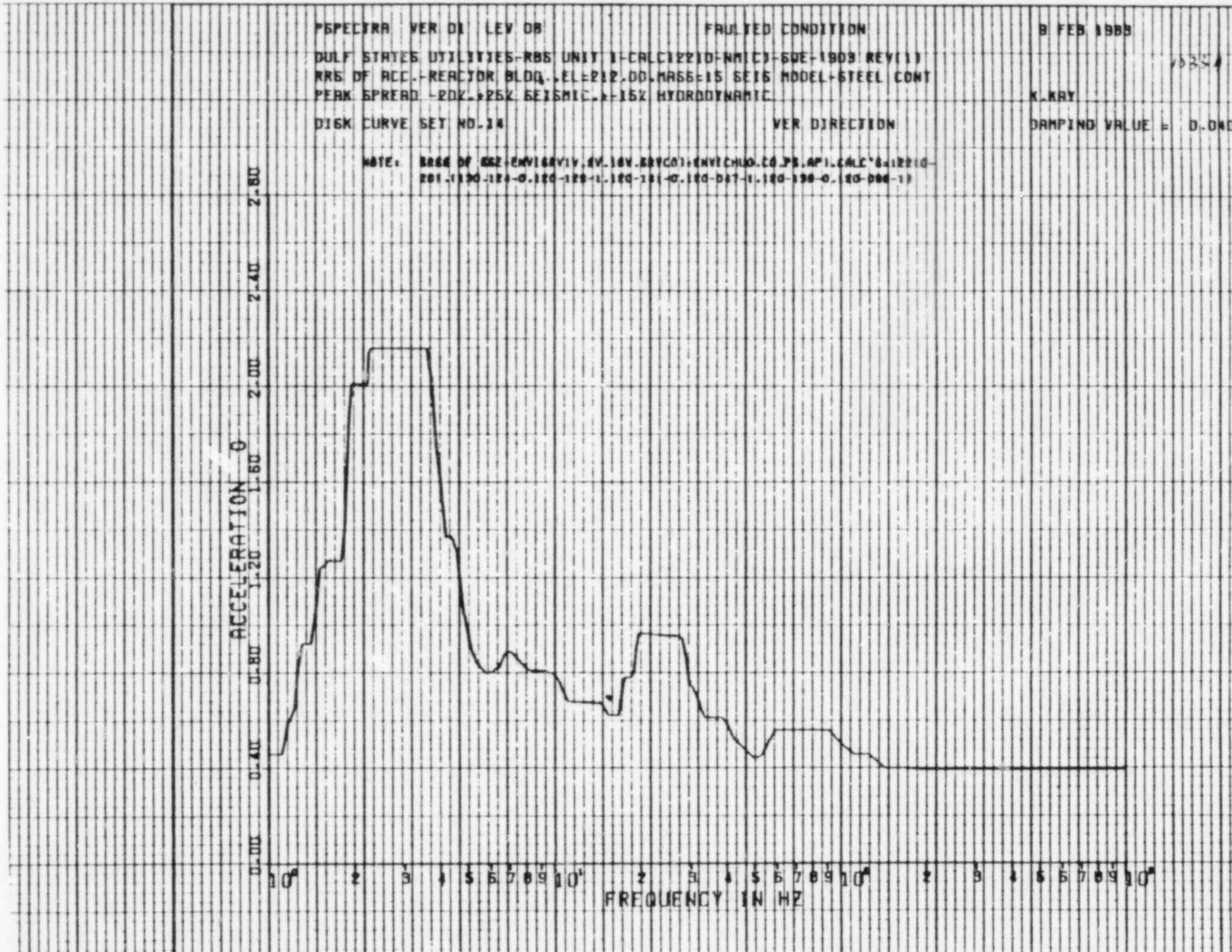


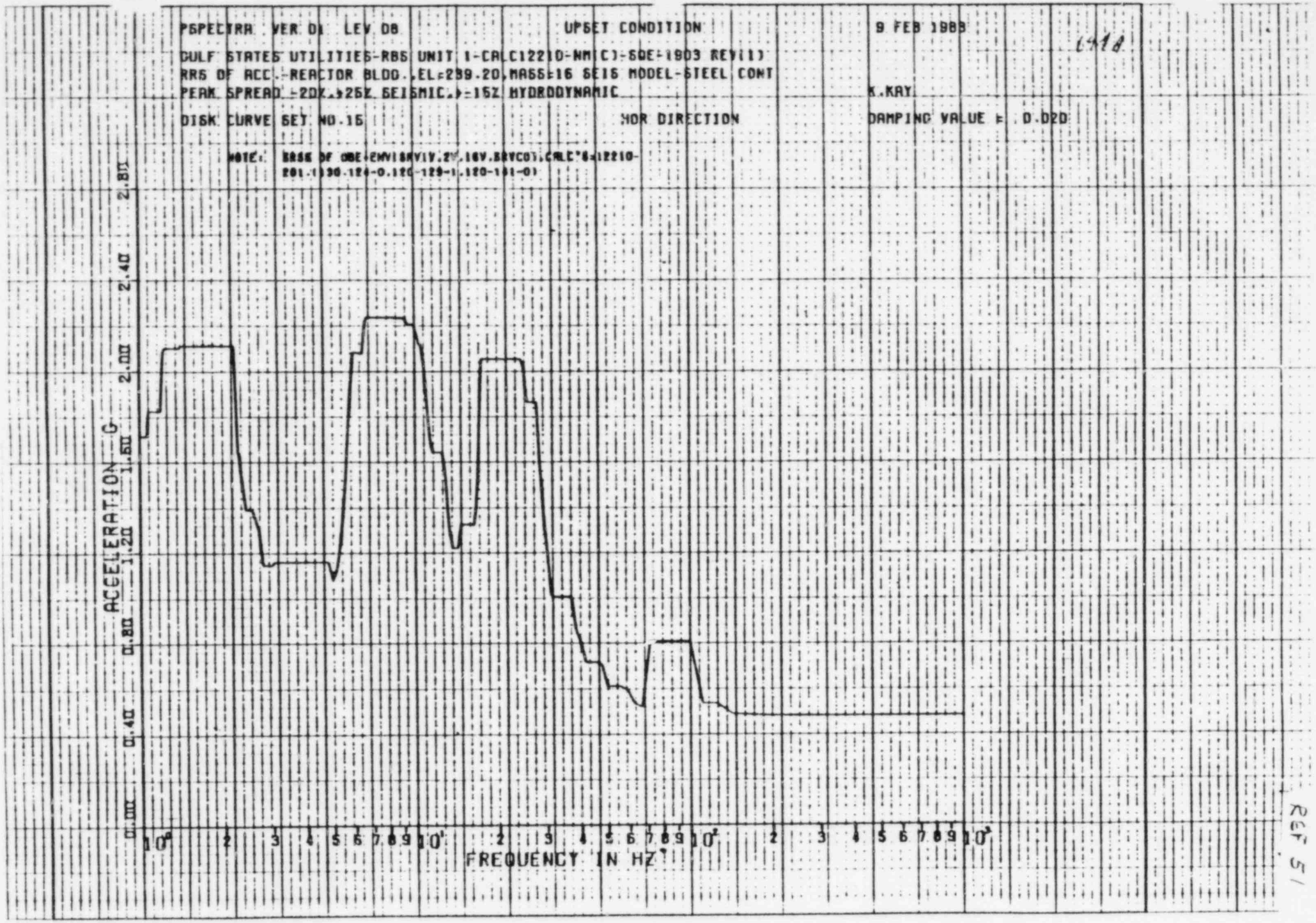
PSPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.-EL=212.00,MASS=15 SEIS MODEL-STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.14
VER DIRECTION
DAMPING VALUE = 0.030
NOTE:
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

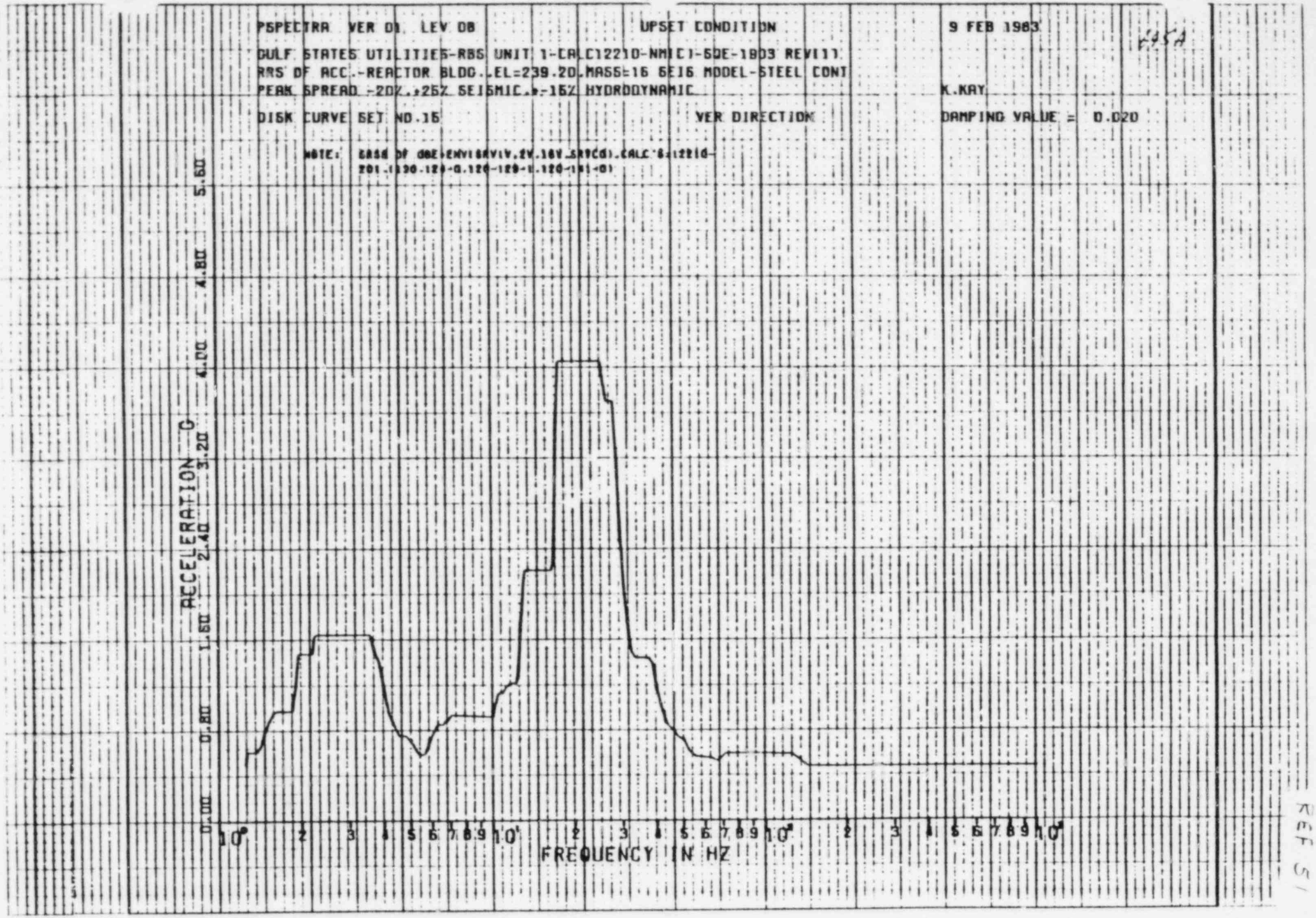

PSPECIRR VER 01 LEV 08 FAULTED CONDITION 8 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-SQE-1903 REV1)
RRS OF RCC.-REACTOR BLDG.-EL=212.00.MASS=15 SEIS MODEL-STEEL CONT
PEAK SPREAD =20%..25% SEISMIC..=1SX HYDRODYNAMIC
DISK CURVE SET NO.14 HOR DIRECTION
DAMPING VALUE = 0.04
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

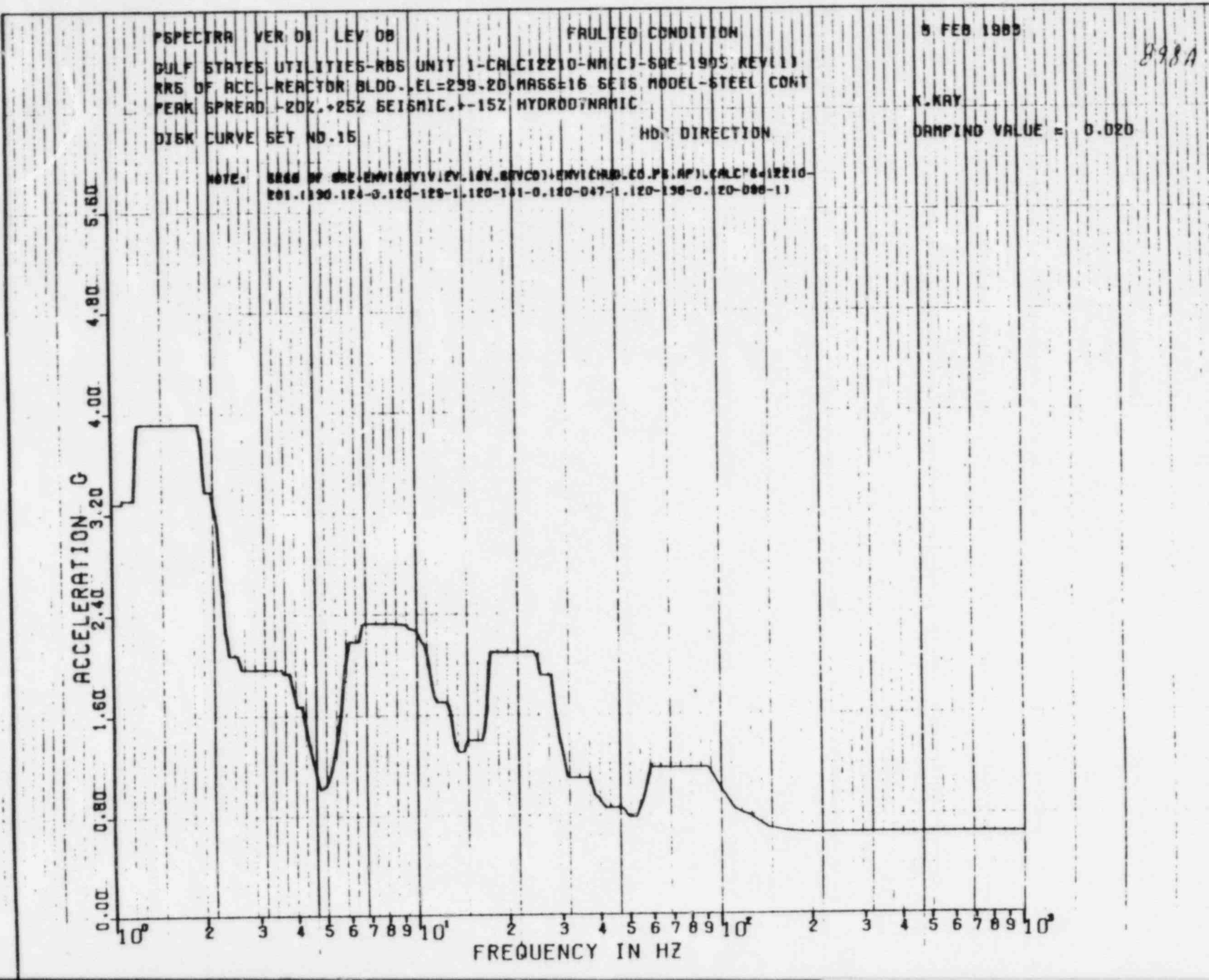
REF 50

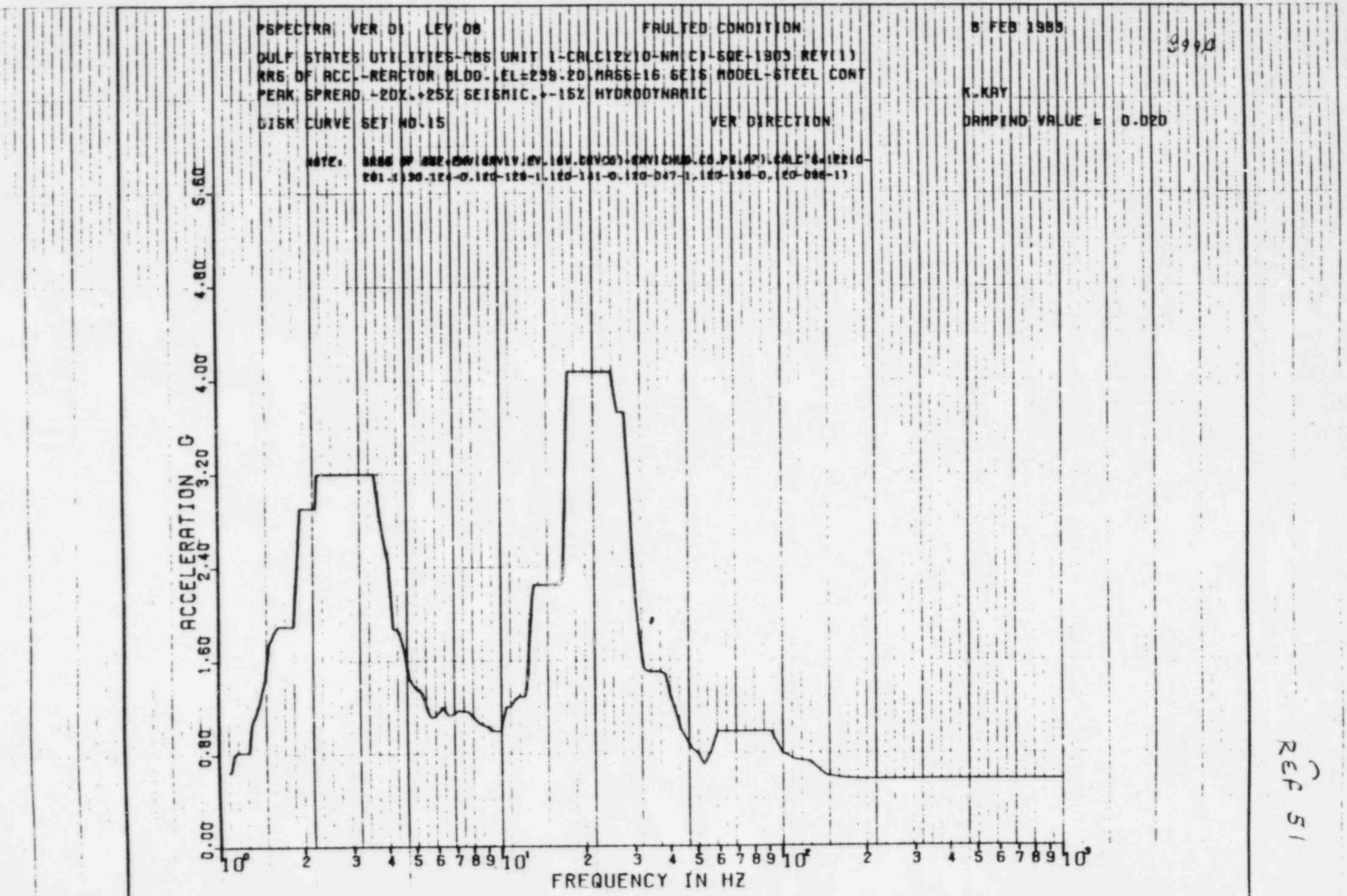
REF 50


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.-EL=212.00,MASS=15 SEIS MODEL+STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.14
VER DIRECTION
DAMPING VALUE = 0.040
NOTE:
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ


PSPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG., EL=239.20,MASS=16 SEIS MODEL-STEEL CONT
PEAK SPREAD =20% ,=25% SEISMIC ,=15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.15
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: BASE OF OBE-ENVELOPING,2%,16V,82YC01,CALC'S=12210-
ACCELERATION G
FREQUENCY IN HZ

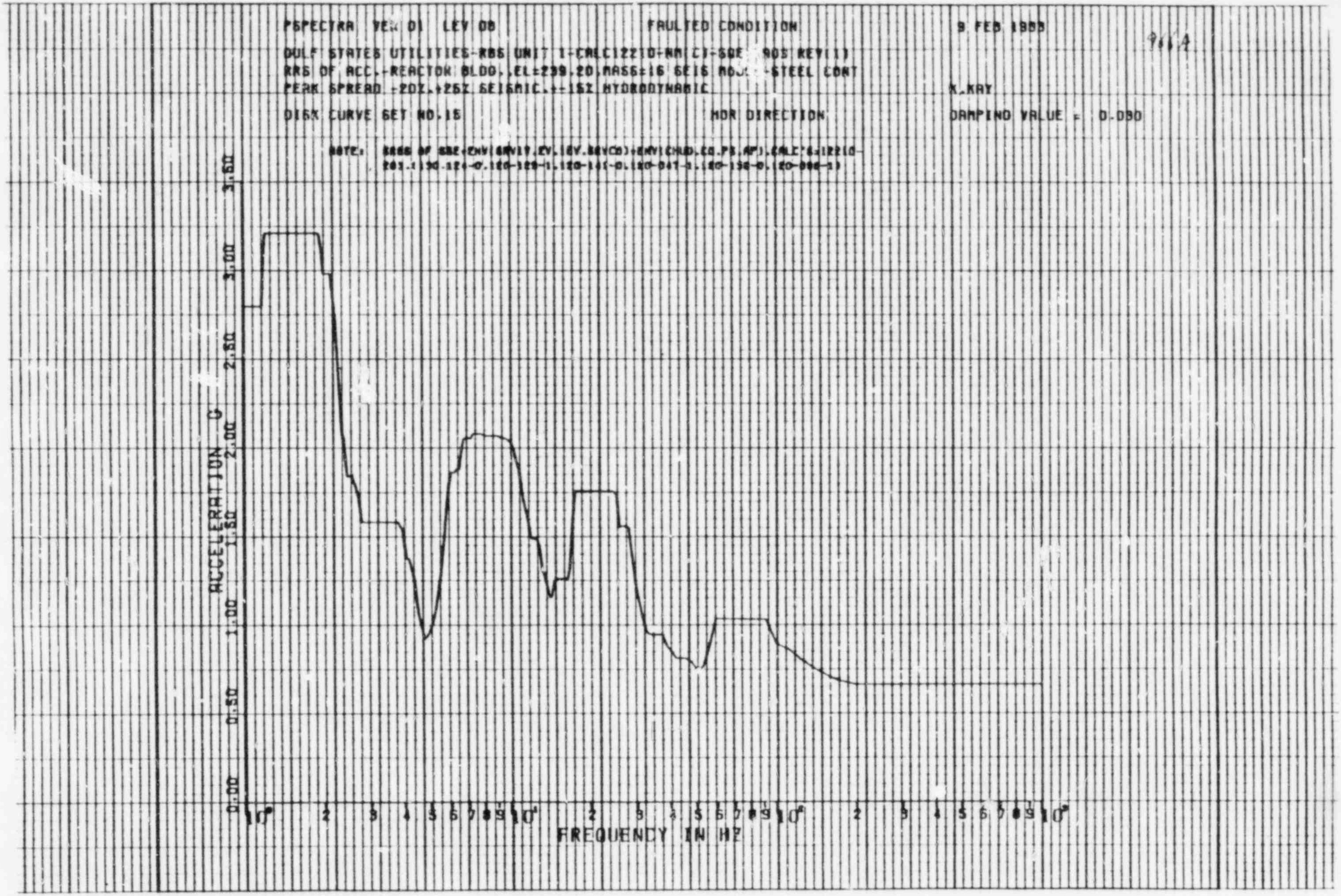

PSPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-SDE-1803 REV11
RRS OF ACC.-REACTOR BLDG. EL=239.20 MASS=16 SEIS MODEL-STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.15
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: BASE OF DBE-ENVELOPING.2V.1&V.SRSS(G).CALC'S:12210-
ACCELERATION G
0.00
0.80
1.60
2.40
3.20
4.00
4.80
5.60
10
2
3
4
5
6
7
8
9
10
FREQUENCY IN HZ

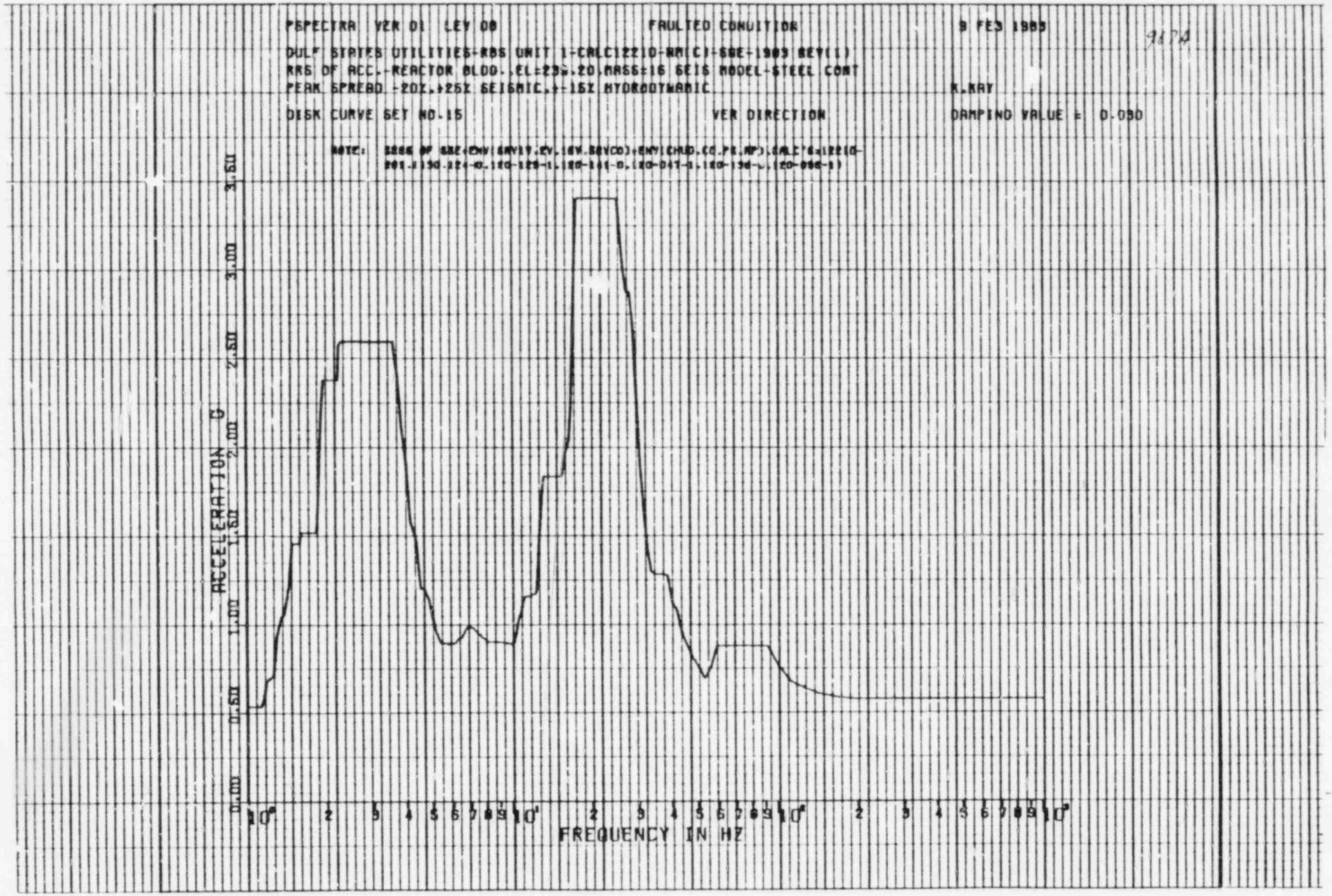

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
5 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1905 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=239.20,MASS=16 SEIS MODEL-STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.15
HOR DIRECTION
DAMPING VALUE = 0.020
898A
ACCELERATION G
0.00
0.80
1.60
2.40
3.20
4.00
4.80
5.60
FREQUENCY IN HZ
REF 51


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM C)-SQE-1303 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=239.20,MASS=16 SEIS MODEL-STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.15
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.80
1.60
2.40
3.20
4.00
4.80
5.60
10^0
2
3
4
5
6
7
8
9
10^1
2
3
4
5
6
7
8
9
10^2
2
3
4
5
6
7
8
9
10^3
FREQUENCY IN HZ

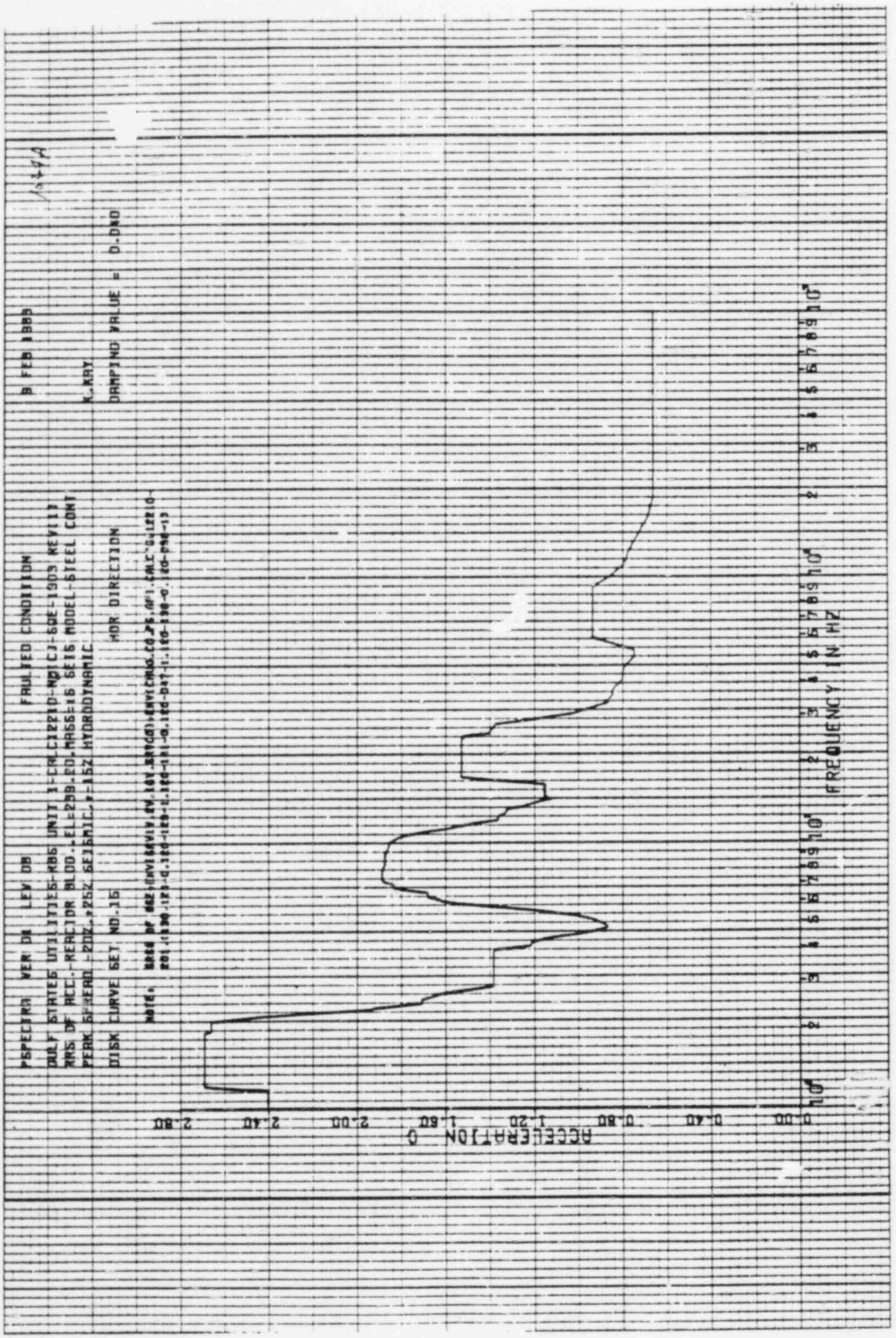
REF 51

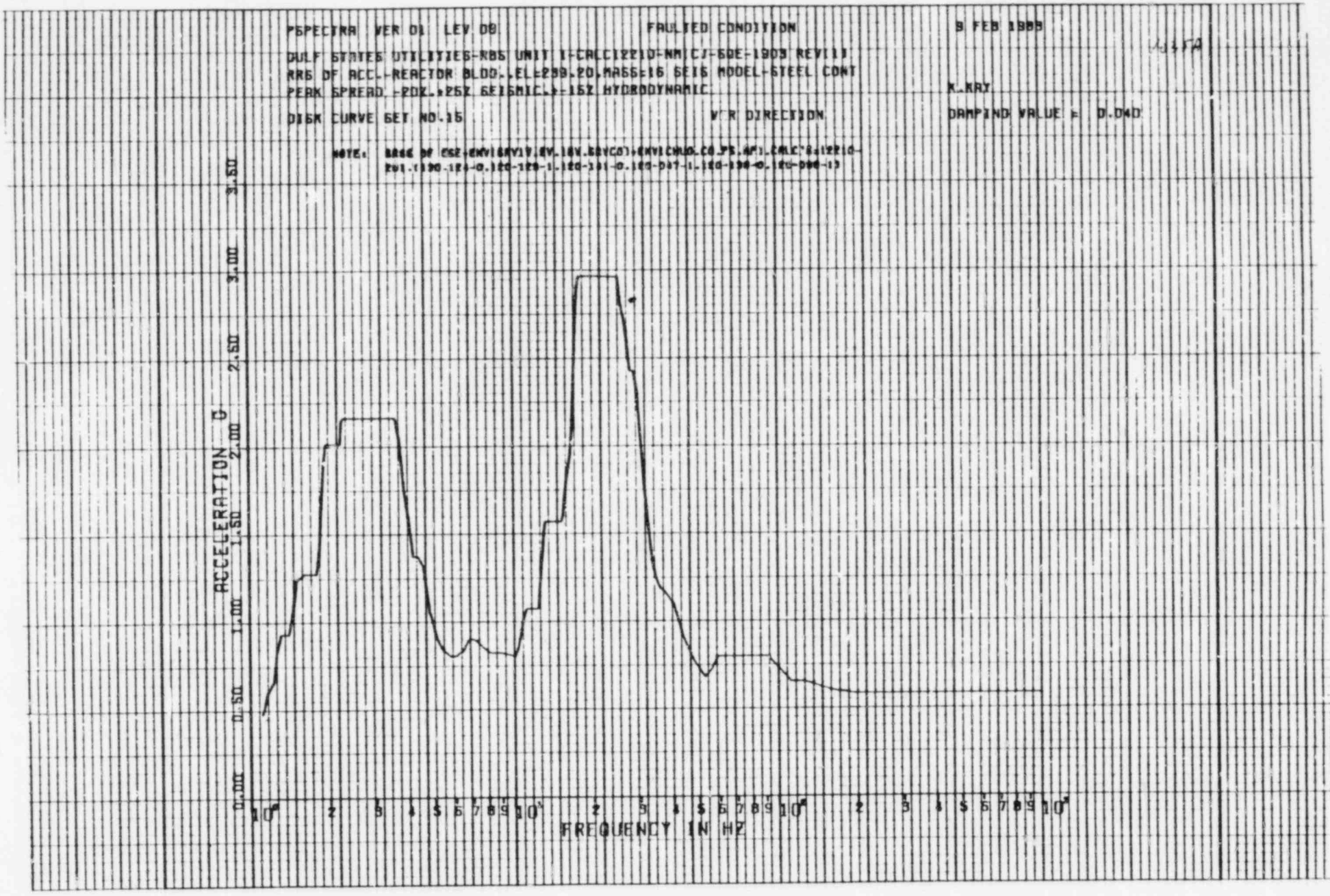
REF 51

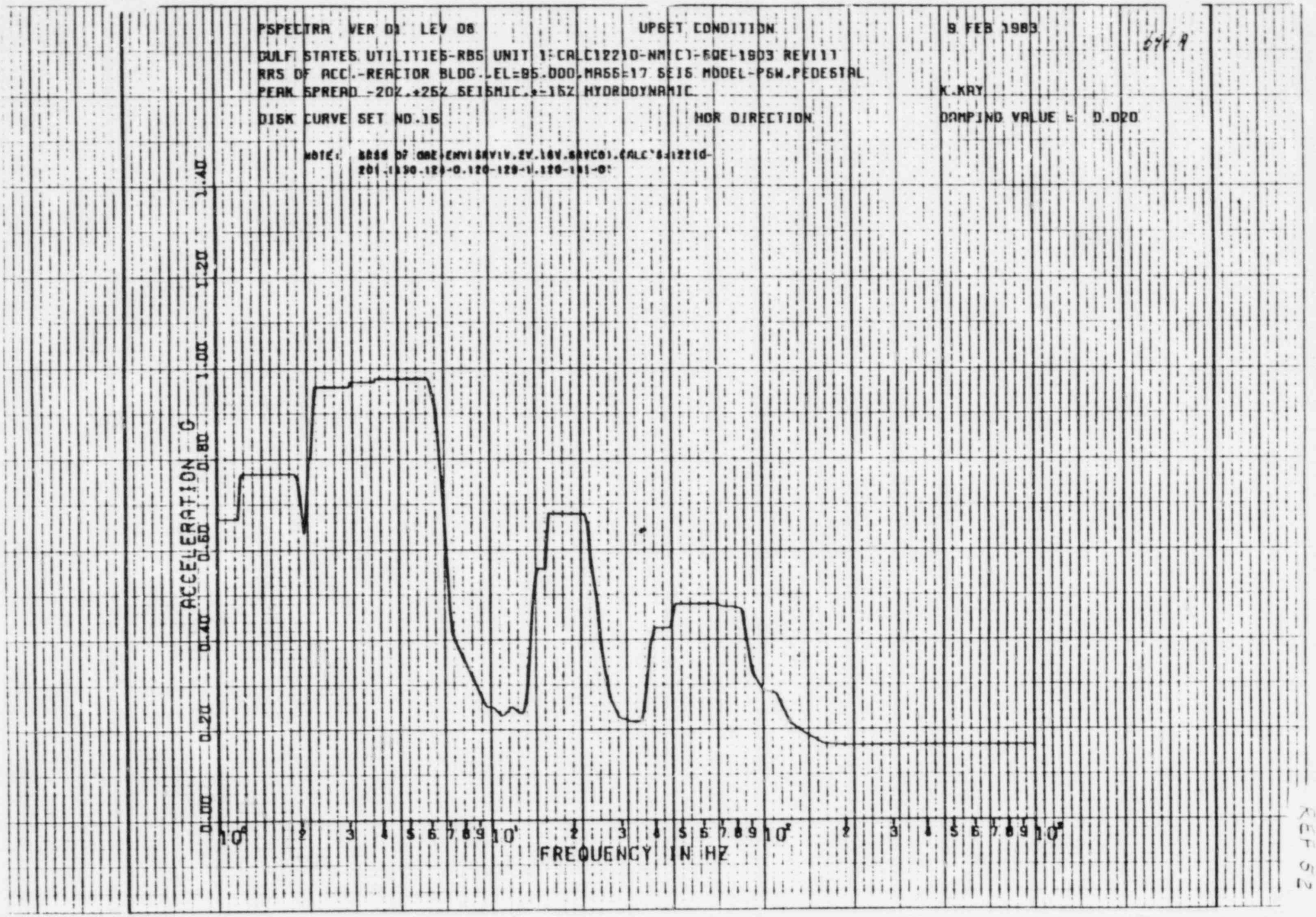

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1983
9K-A
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM C)-SQE 90S REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=239.20,MASS=16 SEIS MOD -STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.15
HOR DIRECTION
DAMPING VALUE = 0.030
ACCELERATION G
FREQUENCY IN HZ

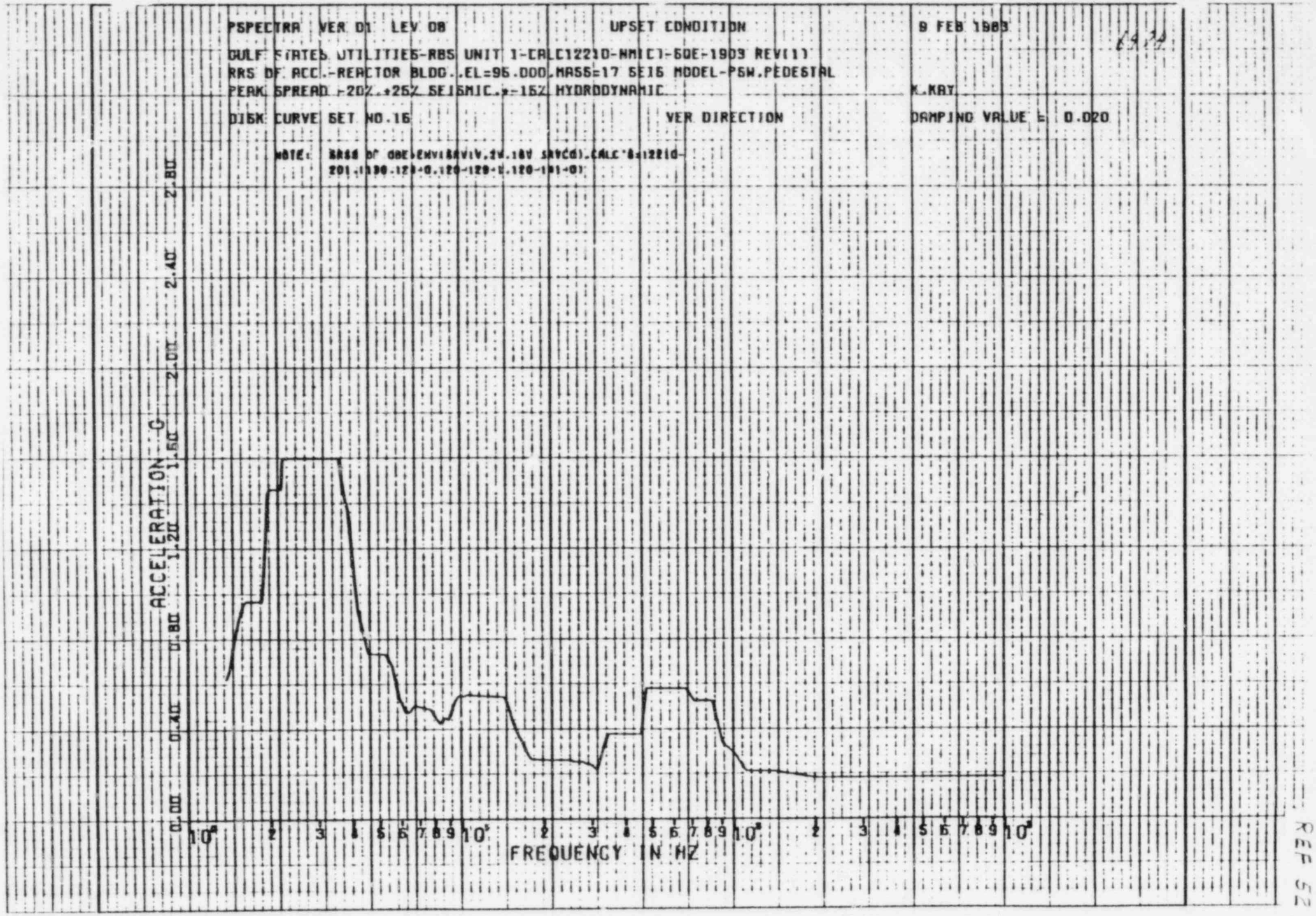

SPECTRA VER 01 LEV 00
FAULTED CONDITION
8 FEB 1983
9:18 PM
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-AM(C)-SSE-1983 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=23'-.20 MASS=16 SEIS MODEL-STEEL CONT
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
R.RAY
DISK CURVE SET NO.15
VER DIRECTION
DAMPING VALUE = 0.050
NOTE:
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ

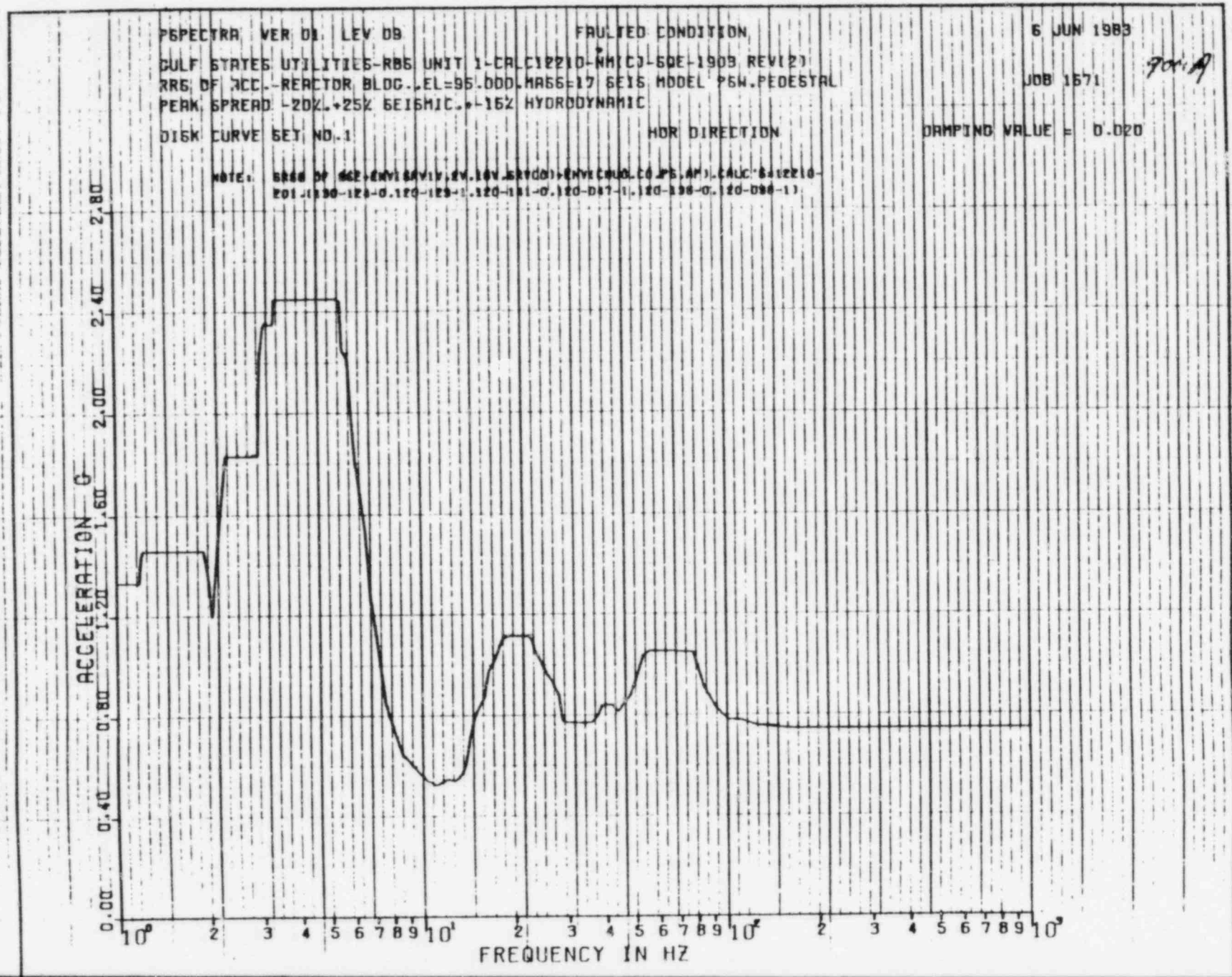
REF 51 7

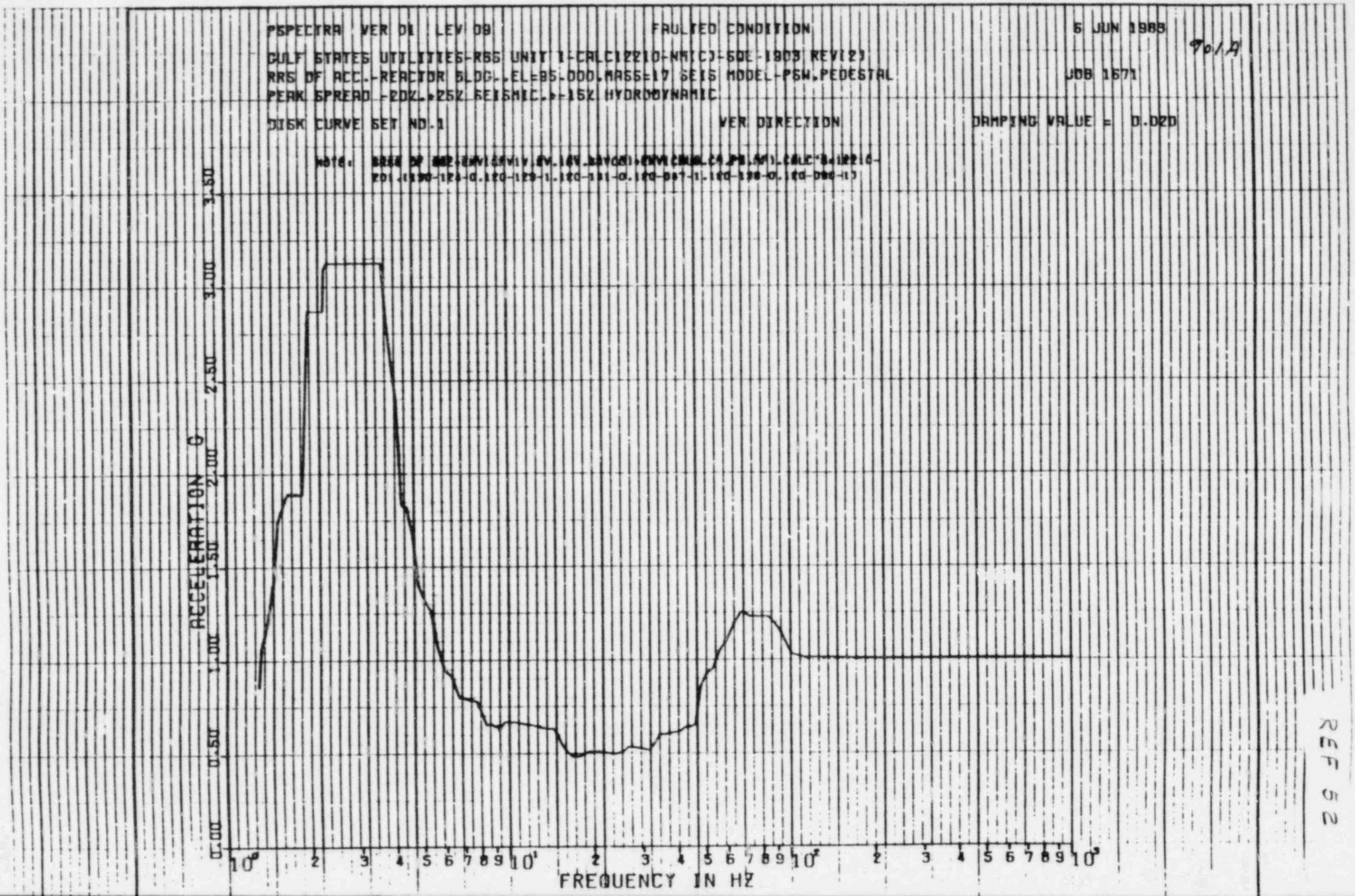

PSPECTRA VER 08 LEV 08
8 FEB 1988
FAULTED CONDITION
GULF STATES UTILITIES-RBS UNIT 1-CM-C12210-NDICJ-60E-1903 REV11
RMS OF REC.-REACTOR BLDG.-EL=288-ED-MA66=16 6E16 MODEL-STEEL CONT
PEAK BROADBAND ACC.=.252 SEISMIC,=.152 HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.=16
MOR DIRECTION
DAMPING VALUE = 0.040
ACCELERATION g
FREQUENCY IN HZ
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
10.0

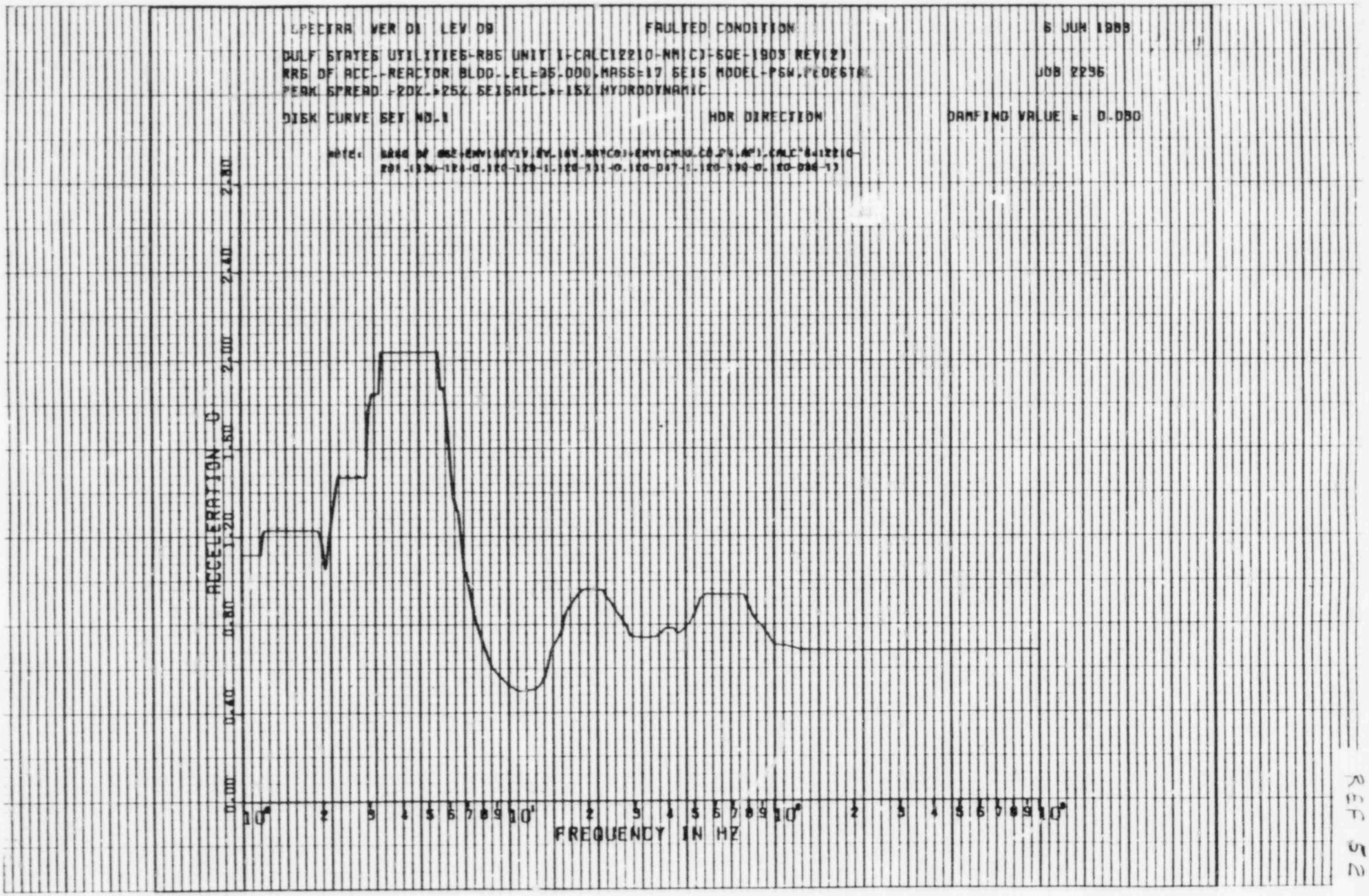

SPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM CJ-GDE-1903 REV1 1
RRB OF ACC.-REACTOR BLDG. EL=239.20,MASS=16 SEIS MODEL-STEEL CONT
PEAK SPREAD =20% =25% SEISMIC =1.5% HYDRODYNAMIC
K.KRY
DAMPING VALUE = 0.040
DISK CURVE SET NO.15
VER DIRECTION
NOTE: BASE OF CSZ+ENV16RV19.RV.16V.52VC0)+ENV1CHUD.C0.P3.AM).CALC'8+12210-
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ

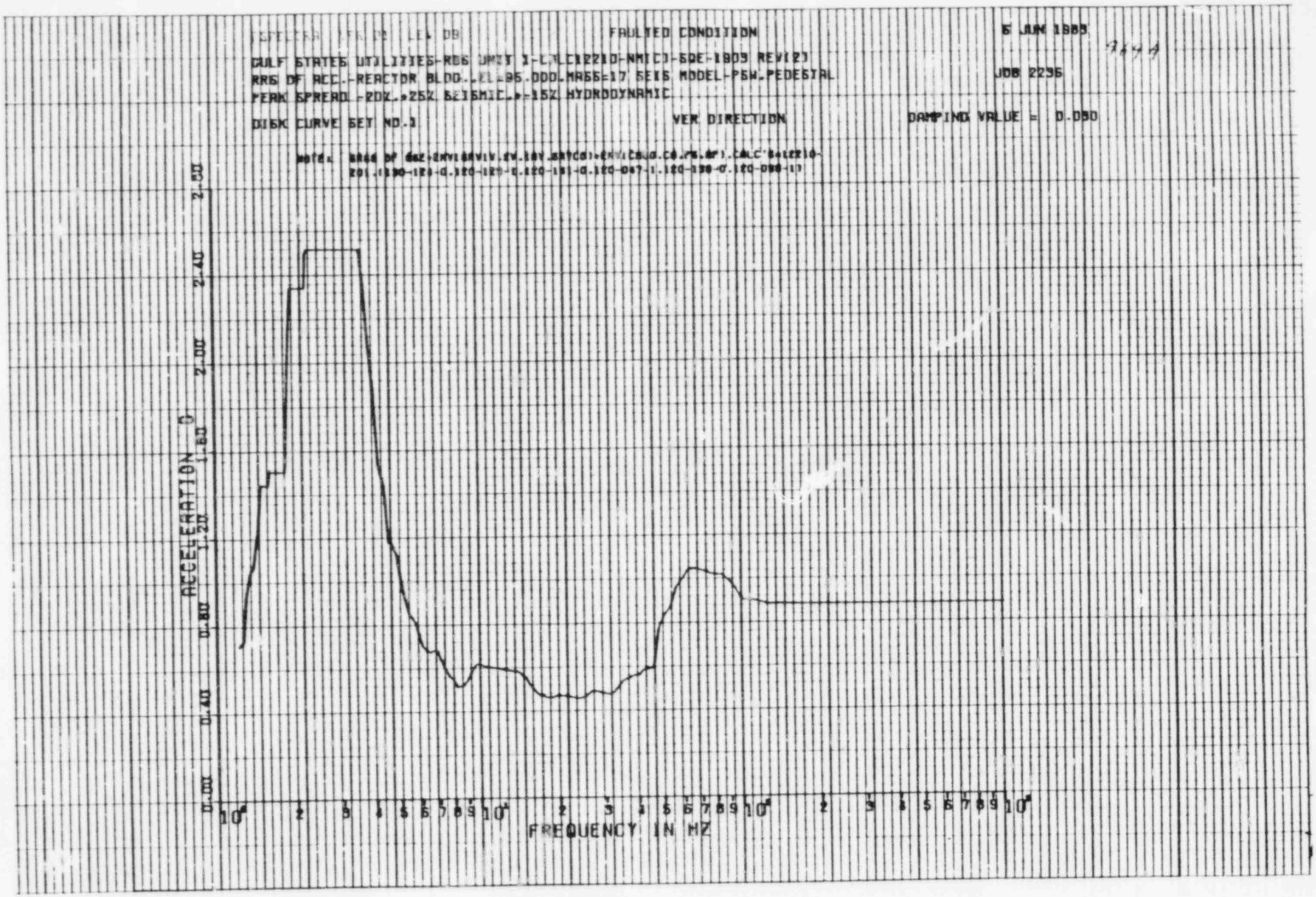

PSPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1:CALC12210-NMIC)-SQE-1903 REV111
RRS OF ACC.-REACTOR BLDG. EL=85.000 MASS=17 SEIS MODEL-PSW.PEDESTAL
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KRY
DISK CURVE SET NO.16
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: BASIS OF ONE-ENVISRV1V.2V.16V.SRYCO).CALC'S-12210-
201,1190.120-0.120-120-1.120-181-0'
ACCELERATION G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
10^0
2
3
4
5
6
7
8
9
10^1
2
3
4
5
6
7
8
9
10^2
2
3
4
5
6
7
8
9
10^3
FREQUENCY IN HZ

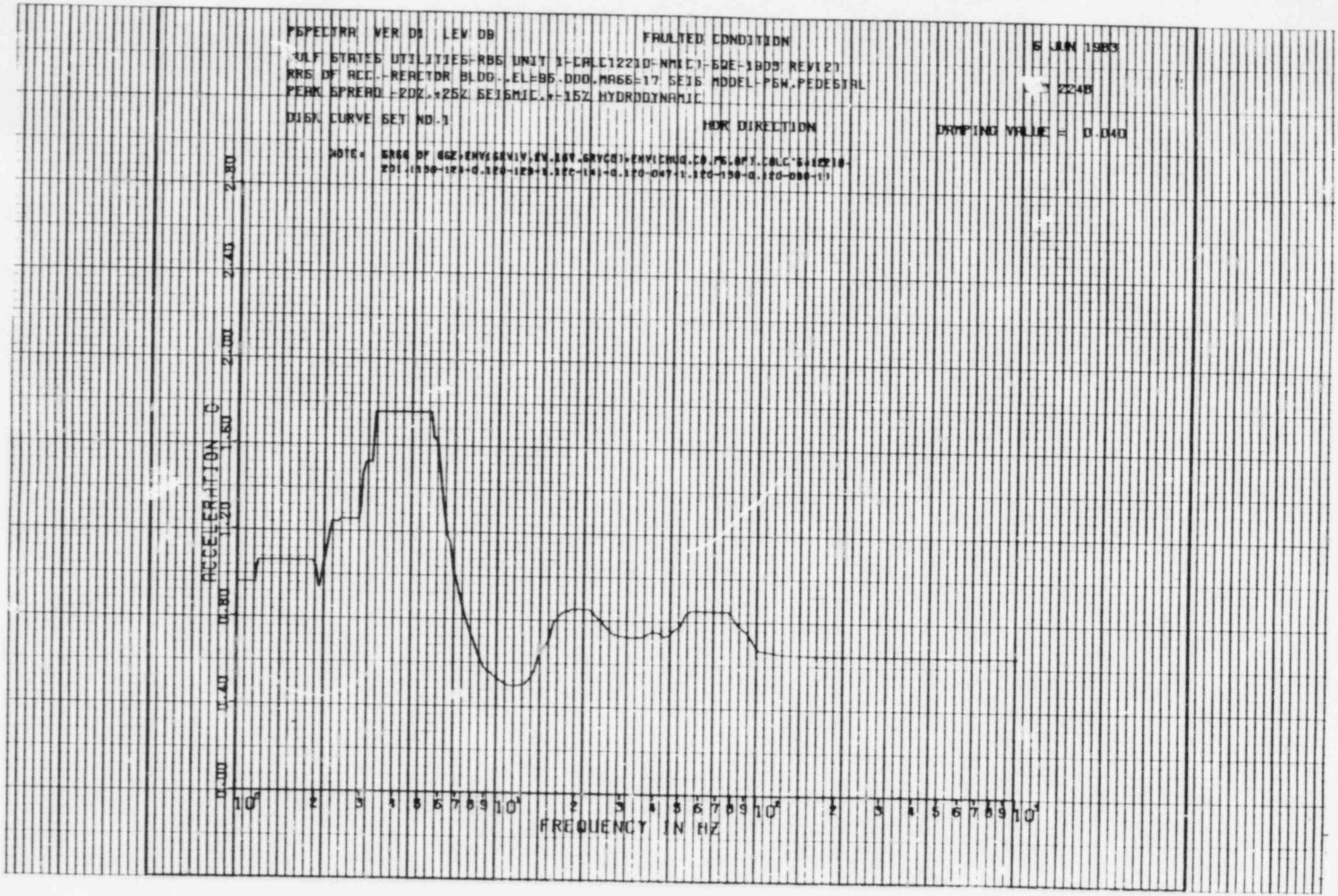

PSPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-60E-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=95.000 MASS=17 SEIS MODEL-PSW.PEDESTAL
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.16
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: BASE OF OBE ENVELOPE V,2V,18V SRVCD). CALC'S:12210-
201.1130.12?+0.120-129+2.120-191-01
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
FREQUENCY IN HZ

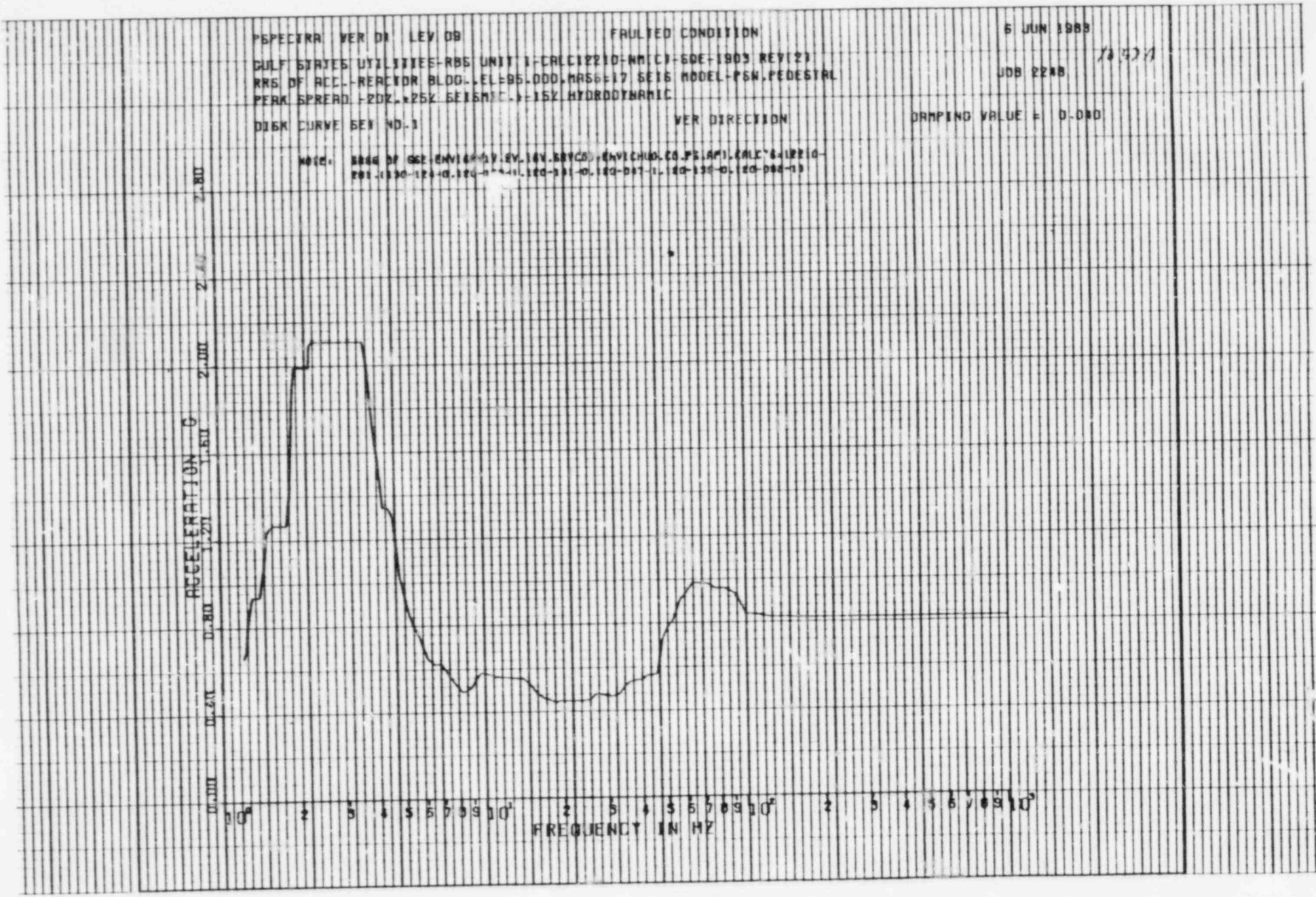

SPECTRA VER 01. LEV 08
FAULTED CONDITION
6 JUN 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(2)
JOB 1671
RBS DF ACC.-REACTOR BLDG.,EL=95.000,MASS=17 SEIS MODEL PSW.PEDESTAL
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
DISK CURVE SET NO.-1
HDR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ


PSPECTRA VER 01 LEV 08 FAULTED CONDITION
5 JUN 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-SQE-1903 REV(2)
RRS OF ACC.-REACTOR BLDG.-EL=85.000,MASS=17 SEIS MODEL-PSW.PEDESTAL
JOB 1671
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
DISK CURVE SET NO-1
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ
REF 52


SPECTRA VER 01 LEV 08
FAULTED CONDITION
6 JUN 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-GQE-1903 REV(2)
JOB 2236
RRS OF ACC.-REACTOR BLDG.-EL=35.000,AZ=17 SEIS MODEL-PGW,PEDESTAL
PEAK SPREAD +20%-+25% SEISMIC-+15% HYDRODYNAMIC
DISK CURVE SET NO.1
HOR DIRECTION
DAMPING VALUE = 0.050
ACCELERATION G
0.000
0.400
0.800
1.200
1.600
2.000
2.400
2.800
FREQUENCY IN HZ


FAULTED CONDITION
6 JAN 1983
GULF STATES UTILITIES-RBS UNIT 1-CYLC1222D-NMIC)-SDE-1803 REV(2)
JOB 2236
RRS OF ACC.-REACTOR BLDG. EL.95.000.MASS=17 SEIS MODEL-PSW.PEDESTAL
PEAK SPREAD -20Z.=25Z SEISMIC =15Z HYDRODYNAMIC
DISK CURVE SET NO.1
VER DIRECTION
DAMPING VALUE = 0.050
ACCELERATION G
FREQUENCY IN HZ


PSPECTRR VER 08 LEV 08
FAULTED CONDITION
6 JAN 1983
ULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-82E-1803 REV(2)
RRS OF ACC.-REACTOR BLDG.-EL=85.000.MASS=17 SEIS MODEL-PSW.PEDESTRL
PEAK SPREAD =20Z,+25Z SEISMIC,+=15Z HYDRODYNAMIC
DISP. CURVE SET NO.1
HOR DIRECTION
DAMPING VALUE = 0.040
NOTE: SRSS OF GGZ+ENV(SEV1V,EV.16Y.SRYCO1)+ENV(ENUC.CO.PS.OFF.CALC'S+12210+
2D1.(150-12)+0.120-120+1.12C-11)+0.120-047+1.120-150+0.120-080-1)
ACCELERATION G
2.80
2.40
2.00
1.60
1.20
0.80
0.40
0.00
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
FREQUENCY IN HZ

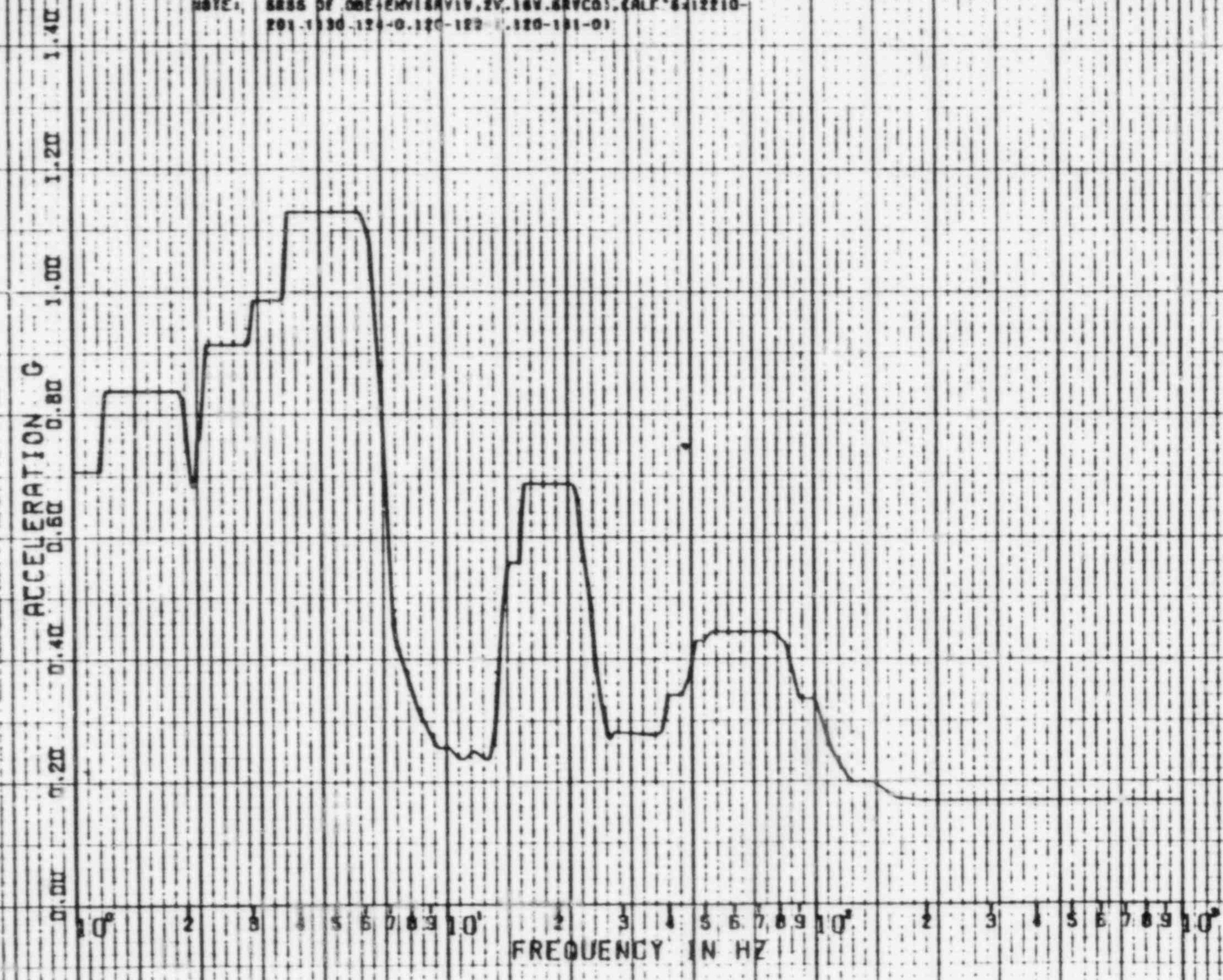

PSPECTRA VER DB LEV DB
FAULTED CONDITION
6 JUN 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(2)
JOB 22AB
RRS OF ACC.-REACTOR BLDG.-EL=95.000,AZ=117 SEIS MODEL-PSW.PEDESTAL
PEAK SPREAD =20Z,=25Z SEISMIC,=15Z HYDRODYNAMIC
DISK CURVE SET NO.1
VER DIRECTION
DAMPING VALUE = 0.050
ACCELERATION G
2.80
2.00
1.60
1.27
0.80
0.40
0.001
FREQUENCY IN HZ

REF 52

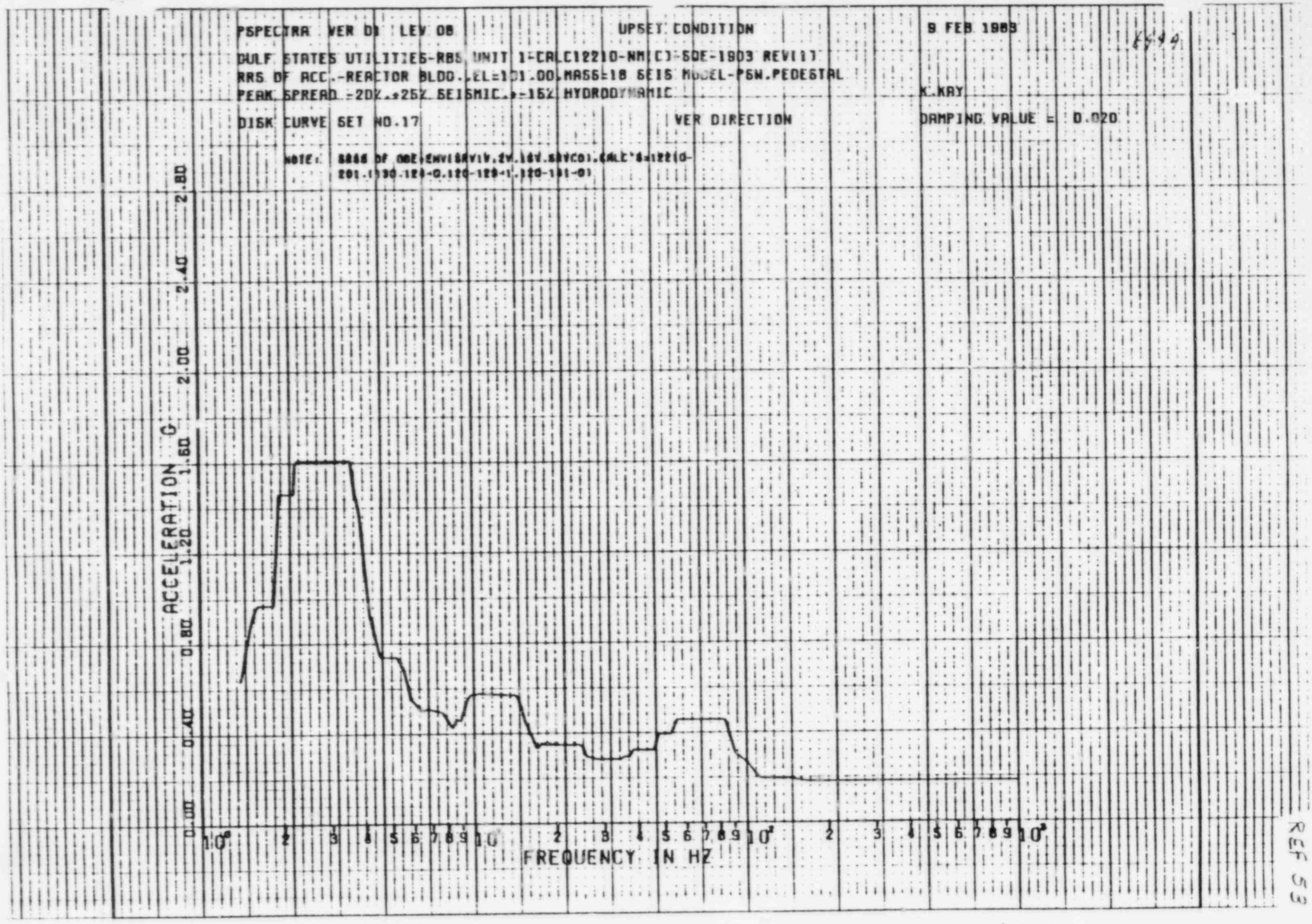
PSPELIRA VER 01 LEV 08 UPSET CONDITION 9 FEB 1988

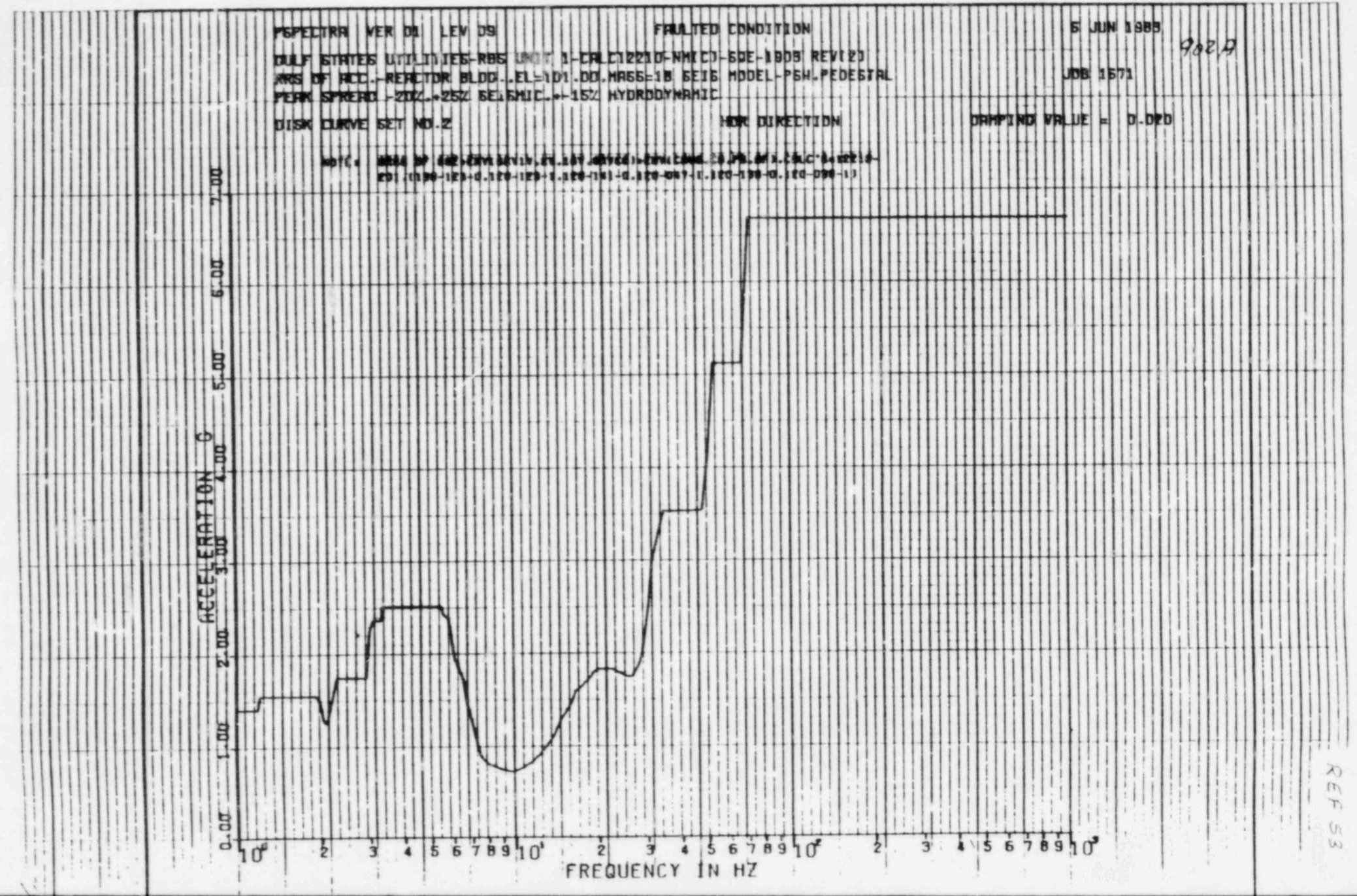
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SDE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=101.00,MASS=18 SEIS MODEL-PSW.PEDESTAL
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC K.KAY
DISK CURVE SET NO.17 HOR DIRECTION DAMPING VALUE = 0.020

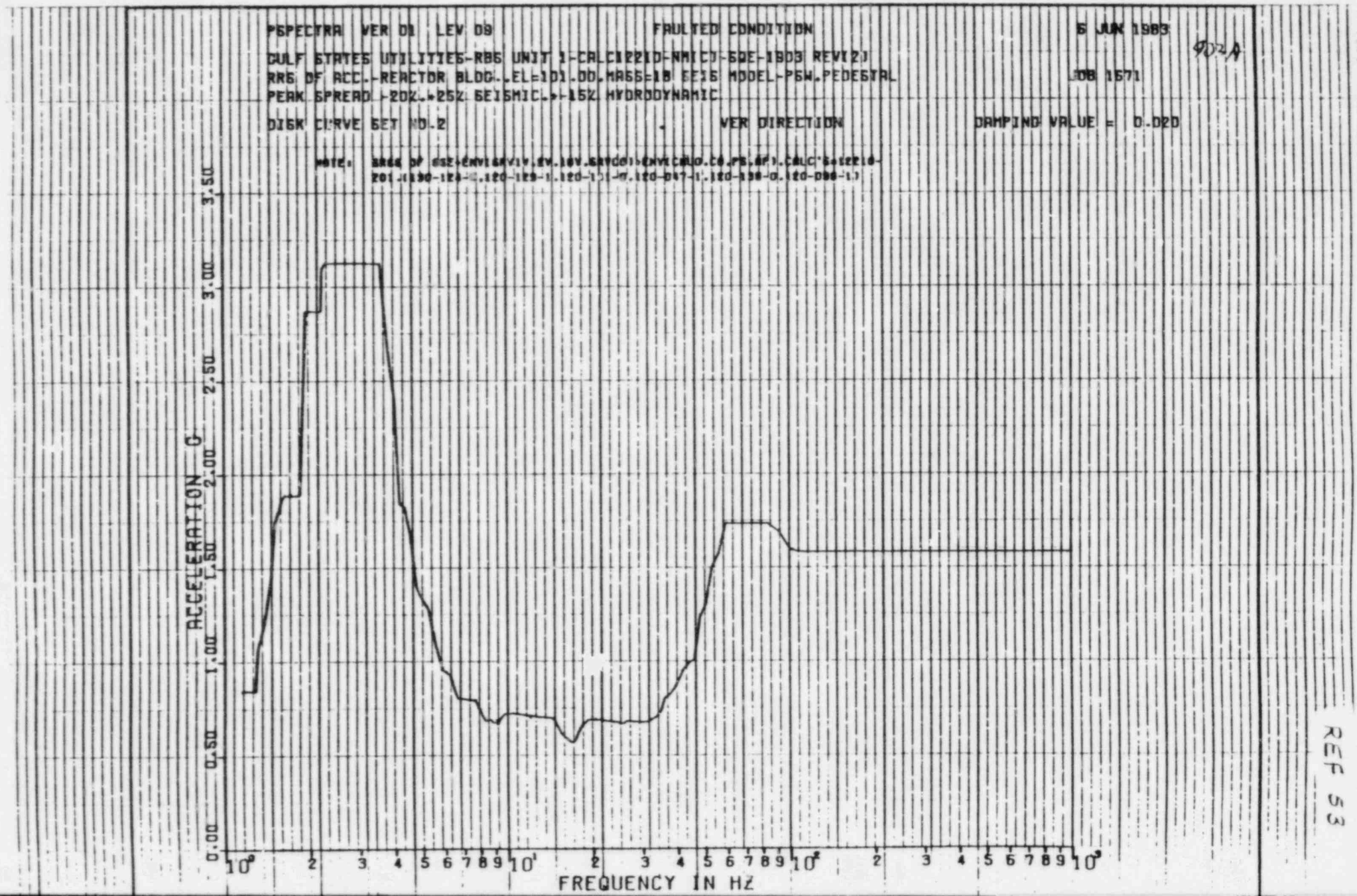
NOTE: RRSS OF OBE-ENVI(SRV1V,2V,16V,SRVCO),CALC 6.12210-201.1130.124-0.120-122 .120-131-0)



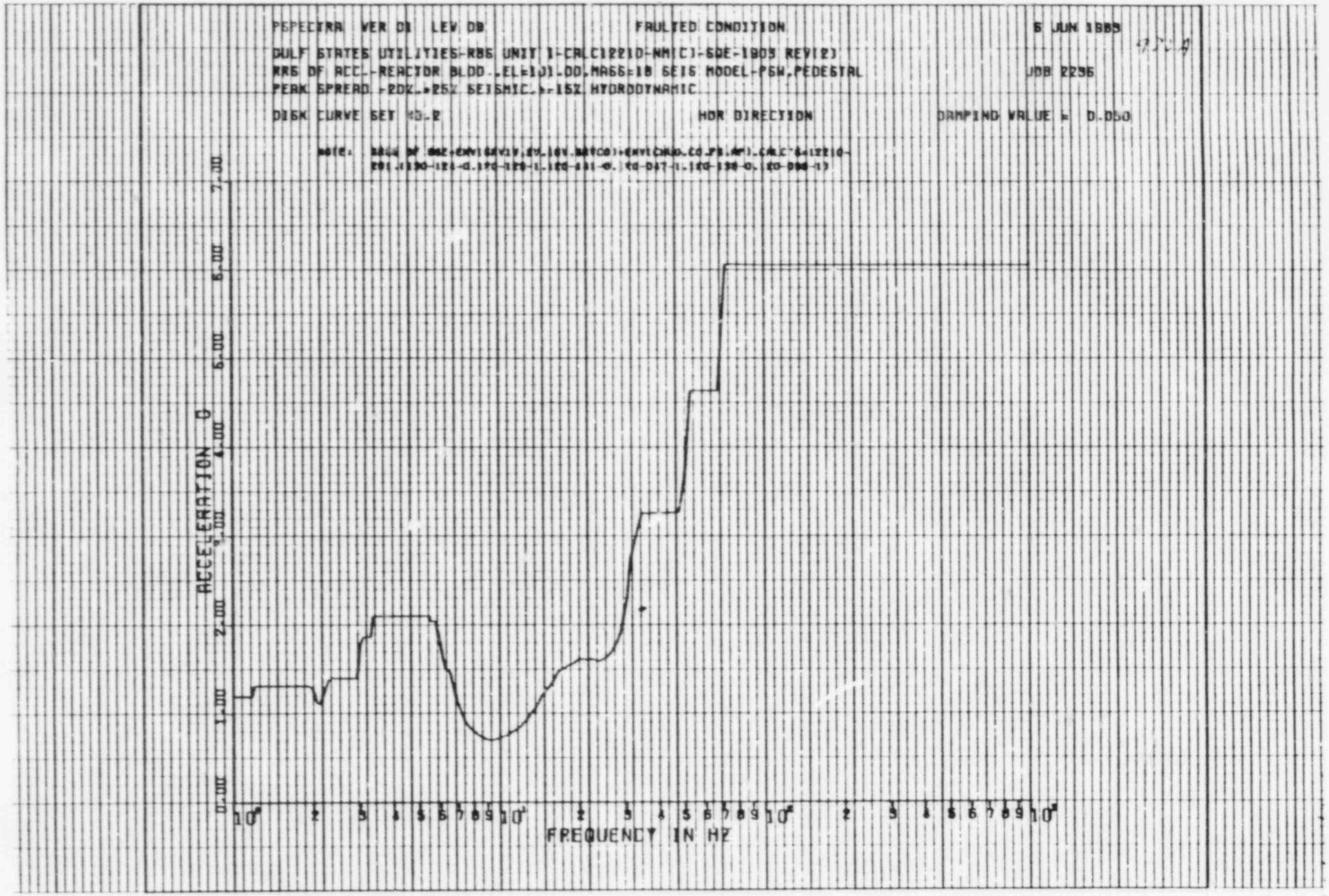
REF 53

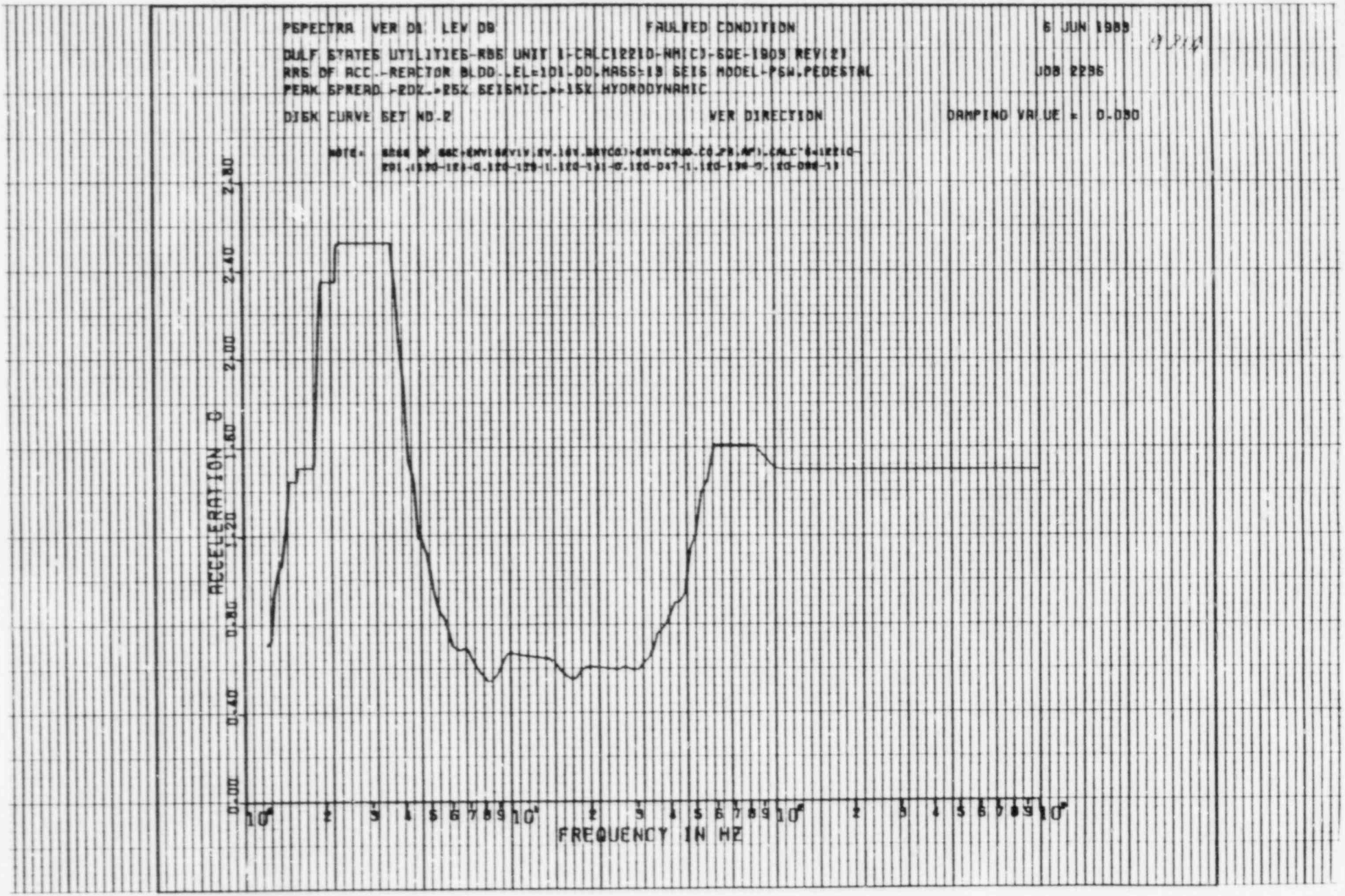

PSPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1803 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=101.00, MASS=18 SEIS MODEL-PSW.PEDESTAL
PEAK SPREAD =20%,±25% SEISMIC,+=15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.17
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: BASE OF QBE-ENV(SRV1V,2V,1GY,SRVCO).CALC'S=122(0-201.(130.128-0.128-129-1.128-131-0)
ACCELERATION G
2.80
2.40
2.00
1.60
1.20
0.80
0.40
0.00
10⁰
2
3
4
5
6
7
8
9
10
10¹
10²
10³
FREQUENCY IN HZ

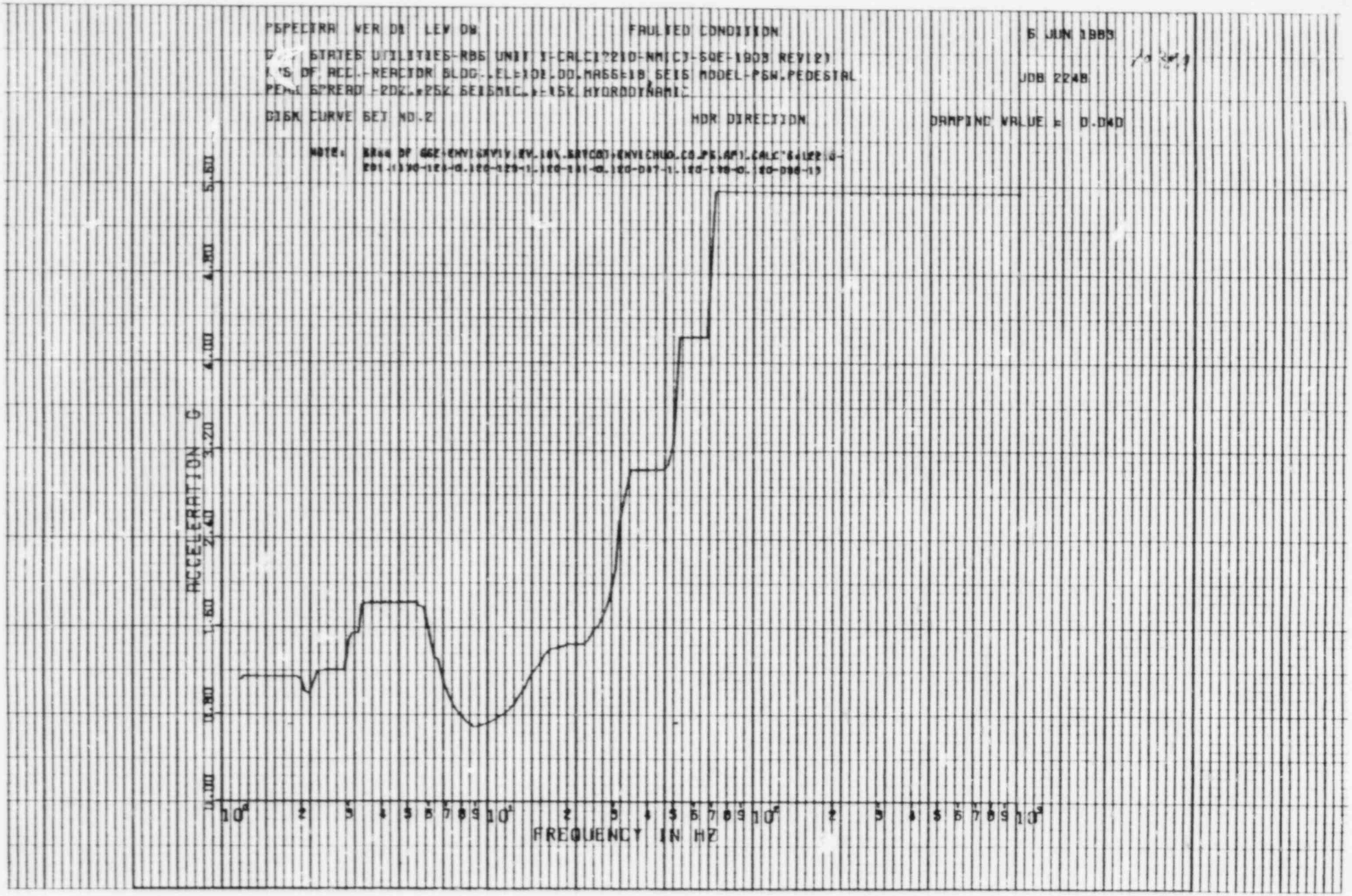

PSPECTRA VER 08 LEV 09 FAULTED CONDITION 6 JUN 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMICD-SDE-1003 REV(2)
AXIS OF RCC.-REACTOR BLDG.-EL=101.00.-AZ=18 SEIS MODEL-PSW.PEDESTAL JOB 1671
PEAK SPHERO -2.00 +.25 SEISMIC +-1.5 HYDRODYNAMIC
DISK CURVE SET NO.2 HOR DIRECTION DAMPING VALUE = 0.020
ACCELERATION G
0.00
1.00
2.00
3.00
4.00
5.00
6.00
7.00
10^0 2 3 4 5 6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2 3 4 5 6 7 8 9 10^3
FREQUENCY IN HZ


PSPECTRA VER 01 LEV 09
FAULTED CONDITION
6 JUN 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMCO-SQE-1003 REV(2)
JOB 1671
RBS OF ACC.-REACTOR BLDG.-EL=101.00.MASS=18 SEIS MODEL-PSW.PEDESTAL
PEAK SPREAD +20%.+25% SEISMIC.+-15% HYDRODYNAMIC
DISK CURVE SET NO-2
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ

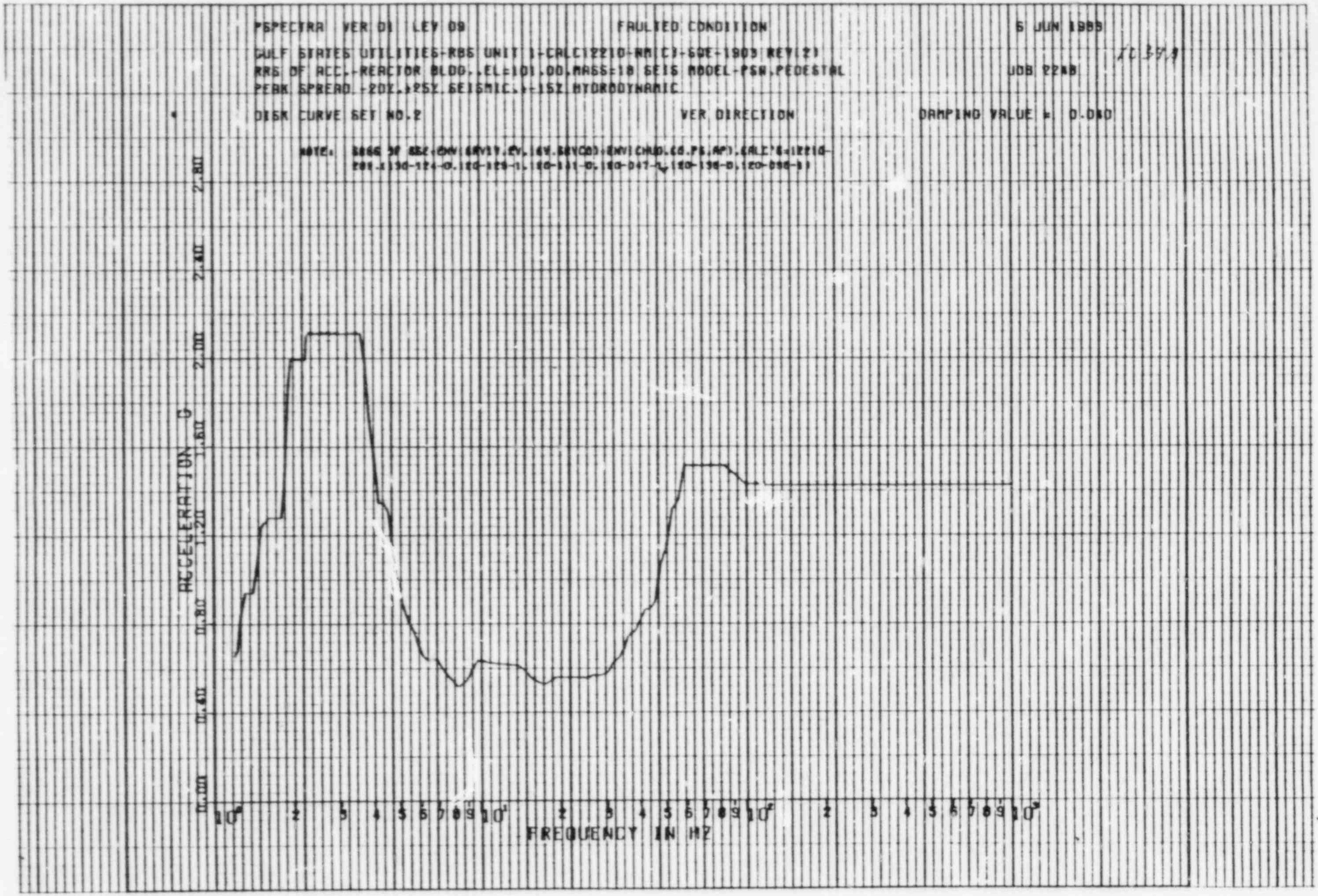
REF 53


SPECTRA VER 01 LEV 08 FAULTED CONDITION 6 JAN 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-SDE-1803 REV(2)
JOB 2236
DISK CURVE SET NO.2 HOR DIRECTION DAMPING VALUE = 0.050
ACCELERATION G
FREQUENCY IN HZ

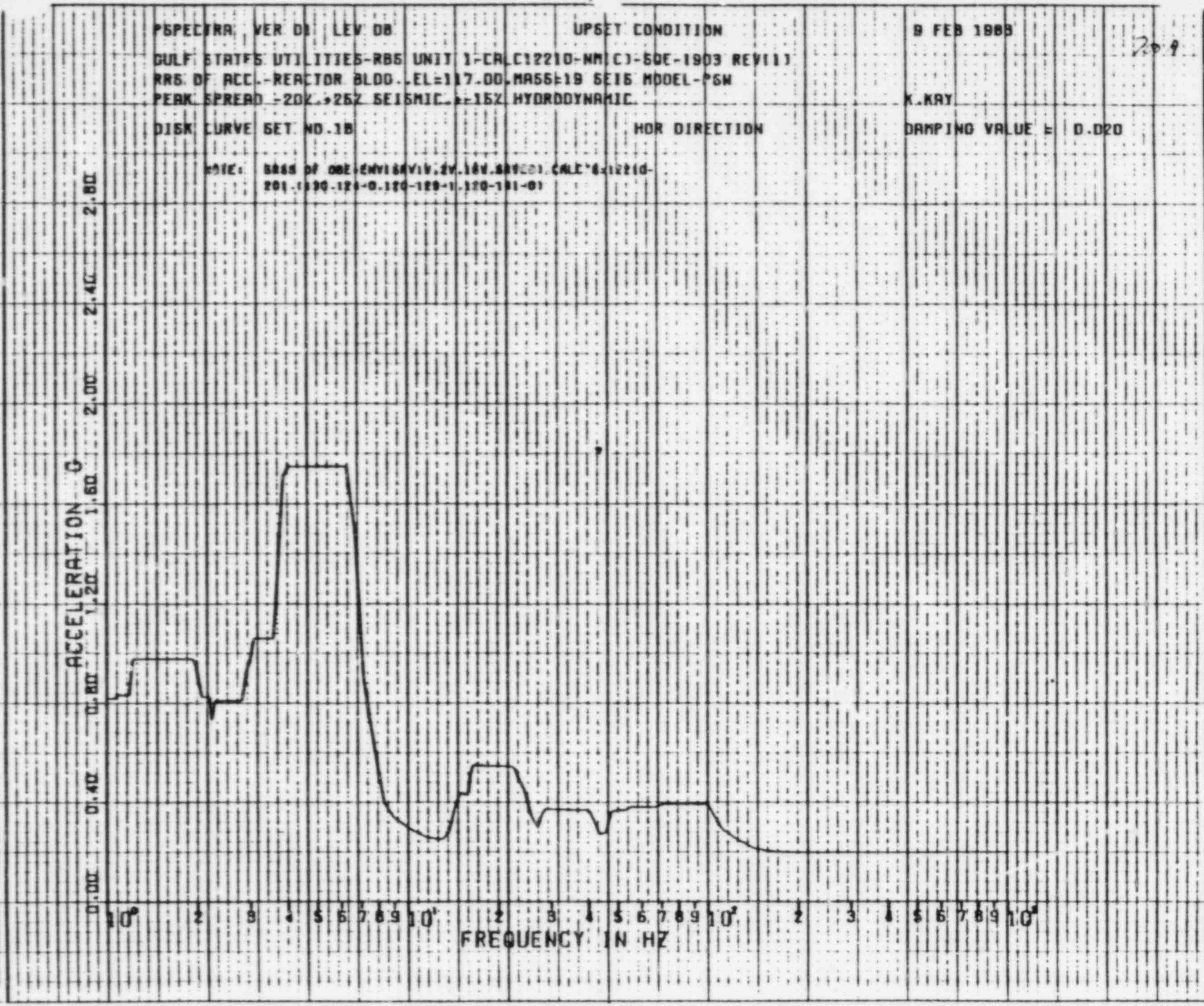

PSPECTRA VER 01 LEV 08 FAULTED CONDITION 6 JUN 1989
DULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1003 REV(2)
RRS OF ACC.-REACTOR BLDG. EL=101.00, MASS=13 SEIS MODEL-PSW, PEDESTAL JOB 2236
PEAK SPREAD =20%, =25% SEISMIC, =15% HYDRODYNAMIC
DISK CURVE SET NO.2 VER DIRECTION DAMPING VALUE = 0.050
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

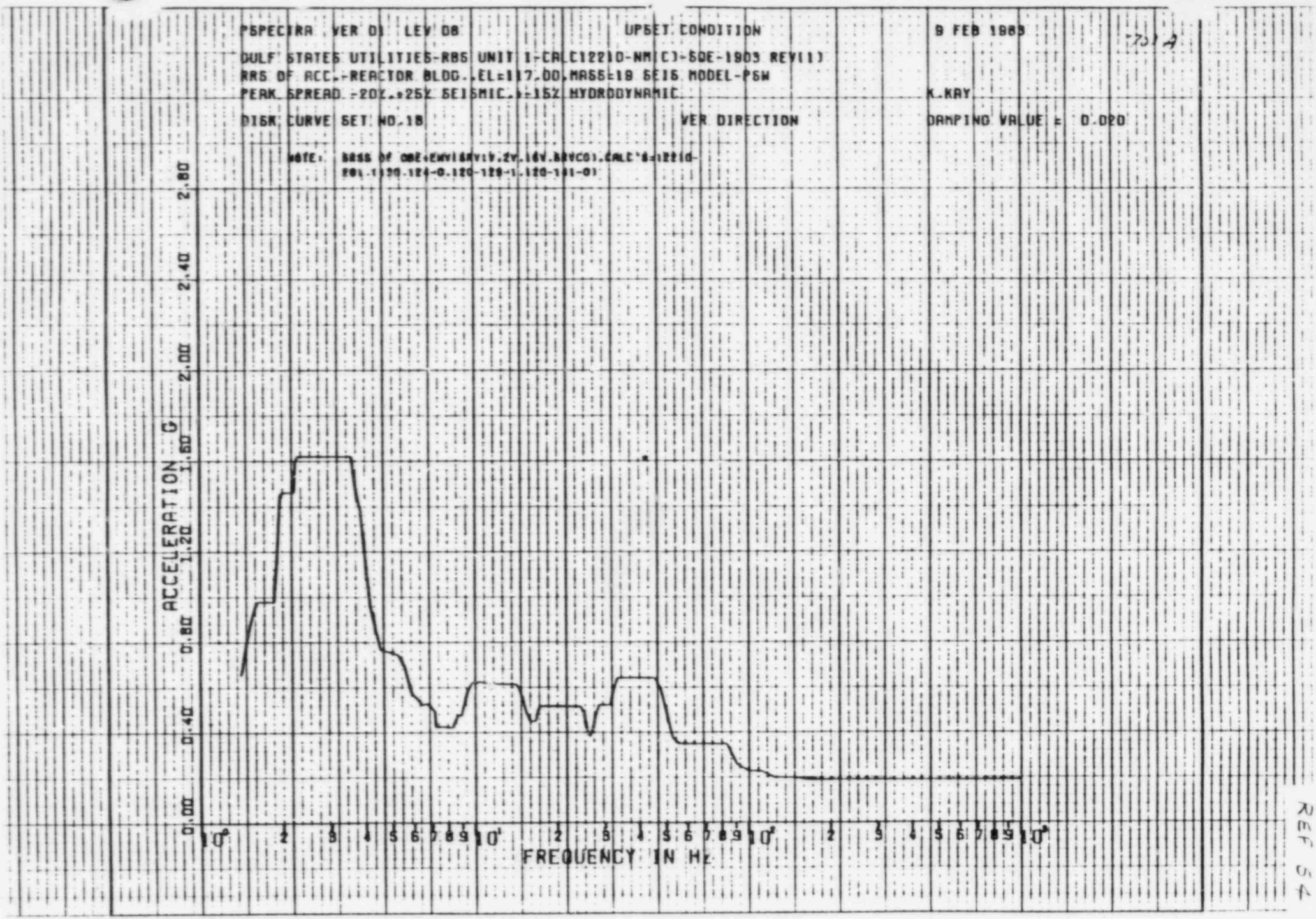

PSPECTRA VER 01 LEV 00 FAULTED CONDITION 6 JUN 1983
UNITED STATES UTILITIES-RBS UNIT 1-CALC(2210-NMIC)-SQE-1903 REV(2)
JOB 2248
DAMPING VALUE = 0.040
HDR DIRECTION
ACCELERATION G
FREQUENCY IN HZ

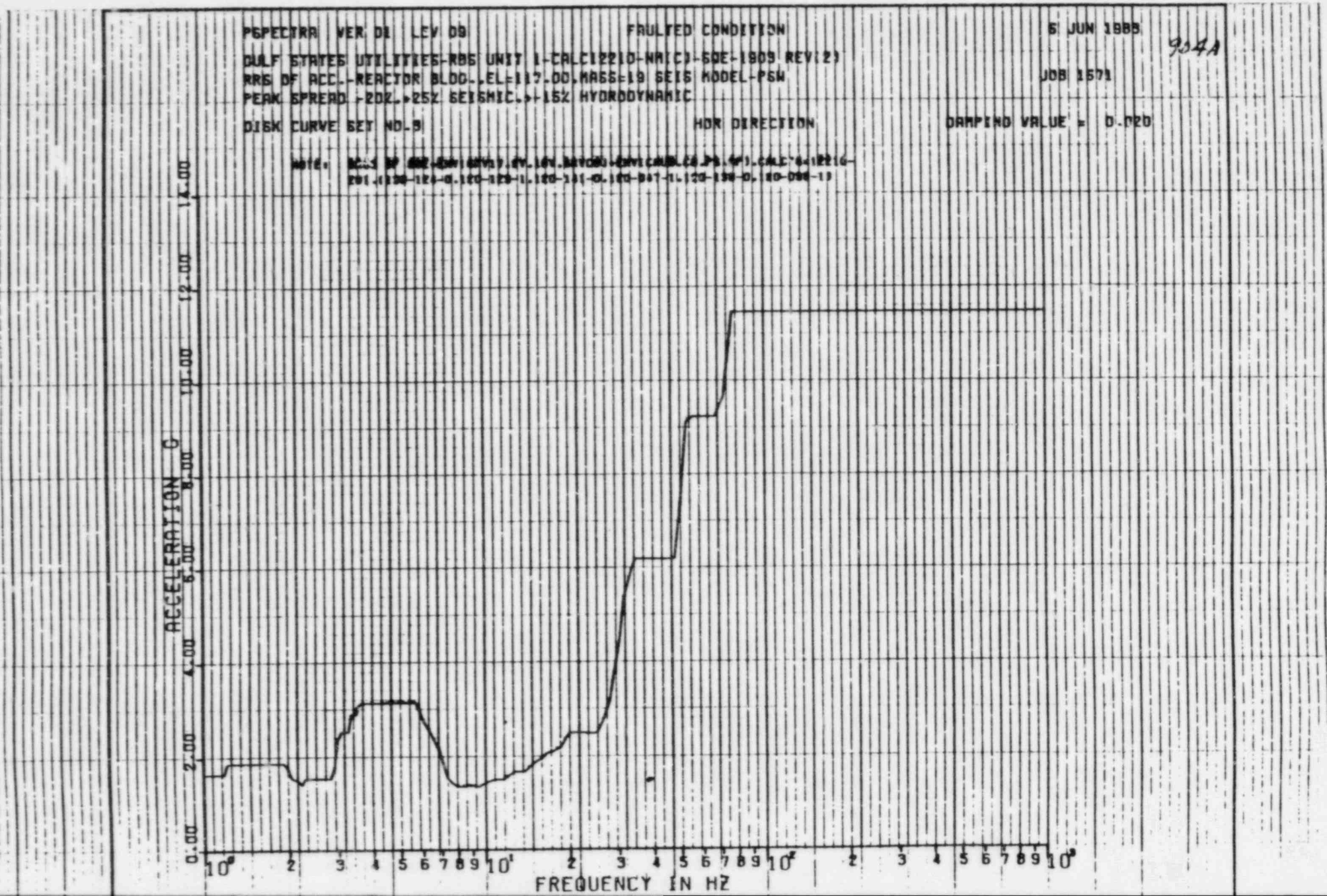
REF 53

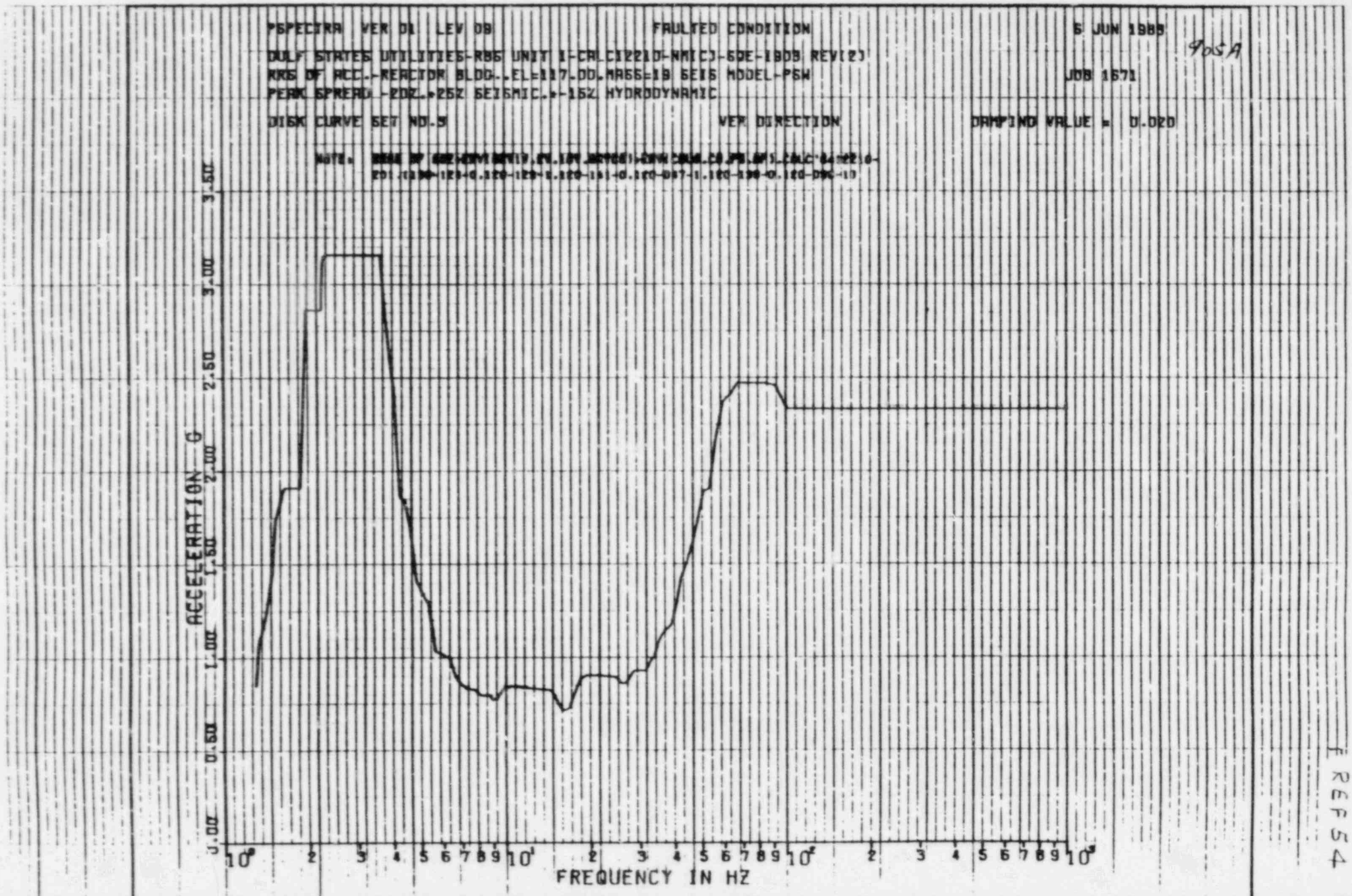


PSPECTRA VER 01 LEV 09
FAULTED CONDITION
6 JUN 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(2)
RRS OF ACC.-REACTOR BLDG.,EL=101.00,MASS=18 SEIS MODEL-PSW,PEDESTAL
JOB 2240
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
DISK CURVE SET NO.2
VER DIRECTION
DAMPING VALUE = 0.040
NOTE:
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

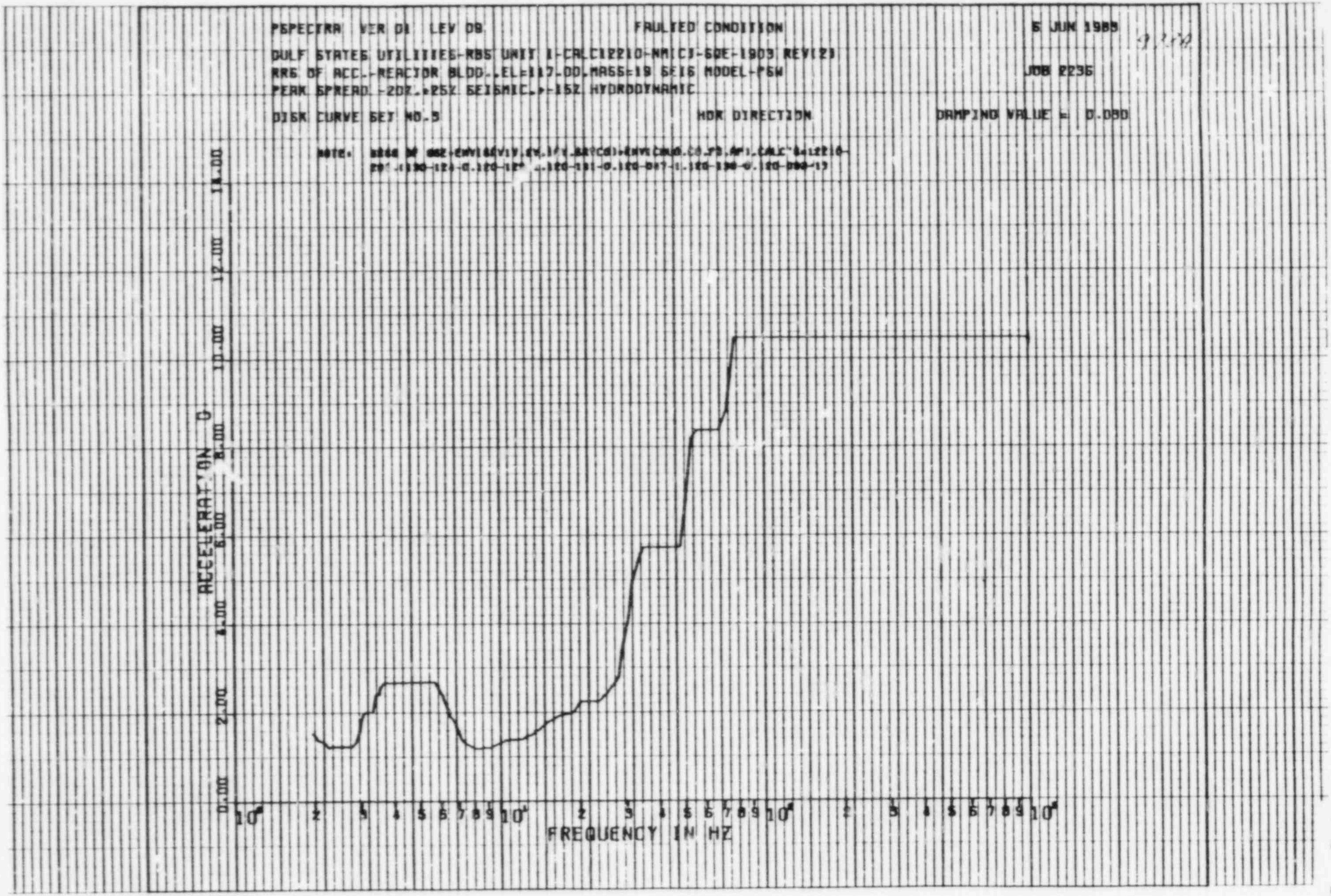

PSPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-50E-1903 REV(1)
RRS OF ACC.-REACTOR BLDG..EL=117.00,MASS=19 SEIS MODEL-PSW
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.1B
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ
REF 54


PSPECTRA VER 01 LEV 08
UPSET CONDITION
8 FEB 1989
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=117.00,MASS=18 SEIS MODEL-PSW
PEAK SPREAD =20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.18
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: BASS OF OBE+EWV16RV19.2V.16V.BRVCO).CALC'S=12210-
2.80
2.40
2.00
1.60
1.20
0.80
0.40
0.00
ACCELERATION G
10⁰ 2 3 4 5 6 7 8 9 10¹ 2 3 4 5 6 7 8 9 10² 2 3 4 5 6 7 8 9 10³
FREQUENCY IN Hz


PSPECTRA VER 01 LEV 09
FAULTED CONDITION
5 JUN 1985
934A
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NA(C)-GDE-1909 REV(2)
RRS OF ACC.-REACTOR BLDG.,EL=117.00,MASS=19 SEIS MODEL-PSW
JOB 1571
PEAK SPREAD =20Z,=25Z SEISMIC,=15Z HYDRODYNAMIC
DISK CURVE SET NO.=3
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
2.00
4.00
6.00
8.00
10.00
12.00
14.00
FREQUENCY IN HZ

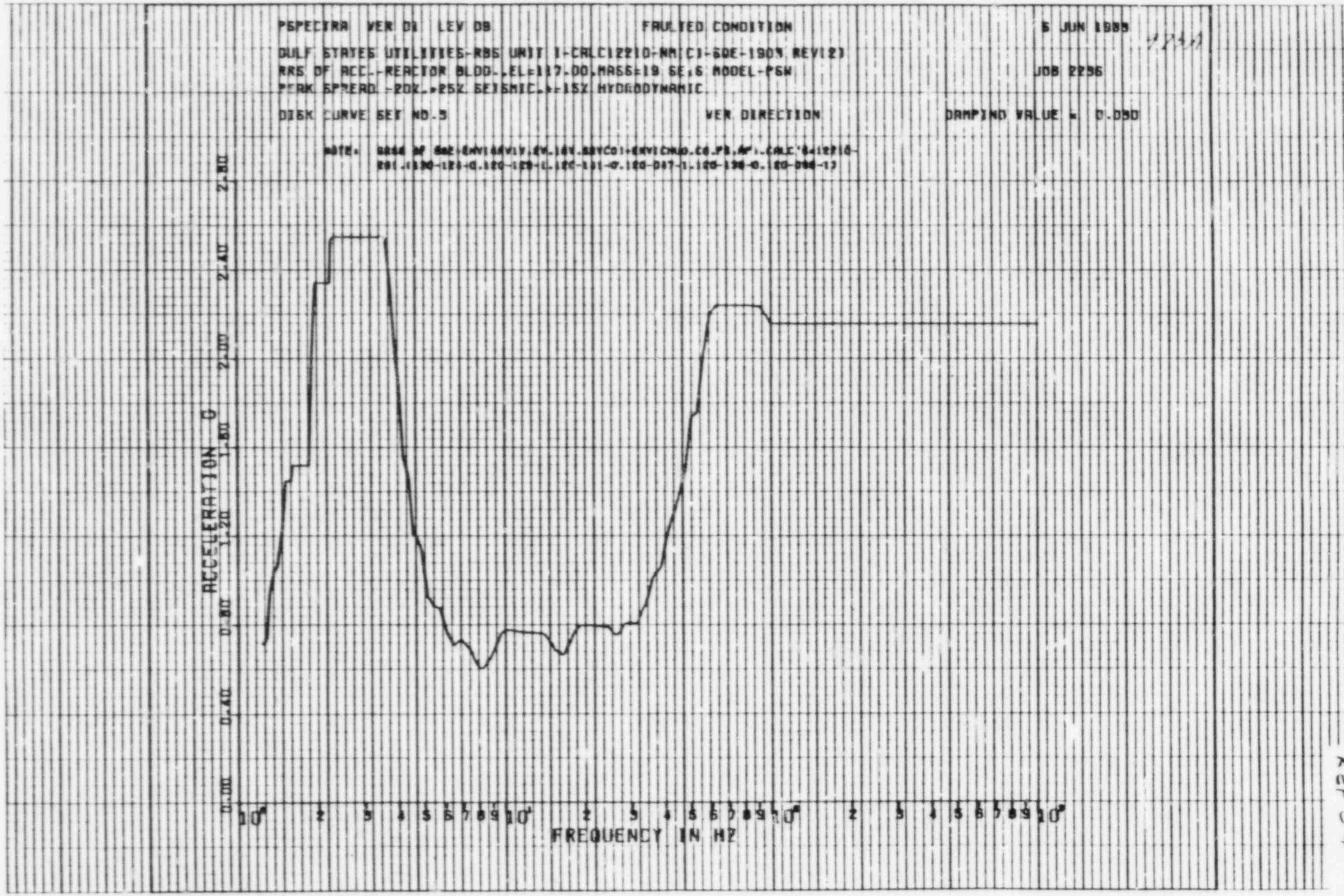

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
5 JUN 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-SDE-1003 REV(2)
JOB 1671
KRGS OF ACC.-REACTOR BLDG.-EL=117.00.-AZ65=10 SEIS MODEL-PSW
PEAK SPREAD -20%-+25% SEISMIC.+-15% HYDRODYNAMIC
DISK CURVE SET NO.5
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ
FSAR

REF 54

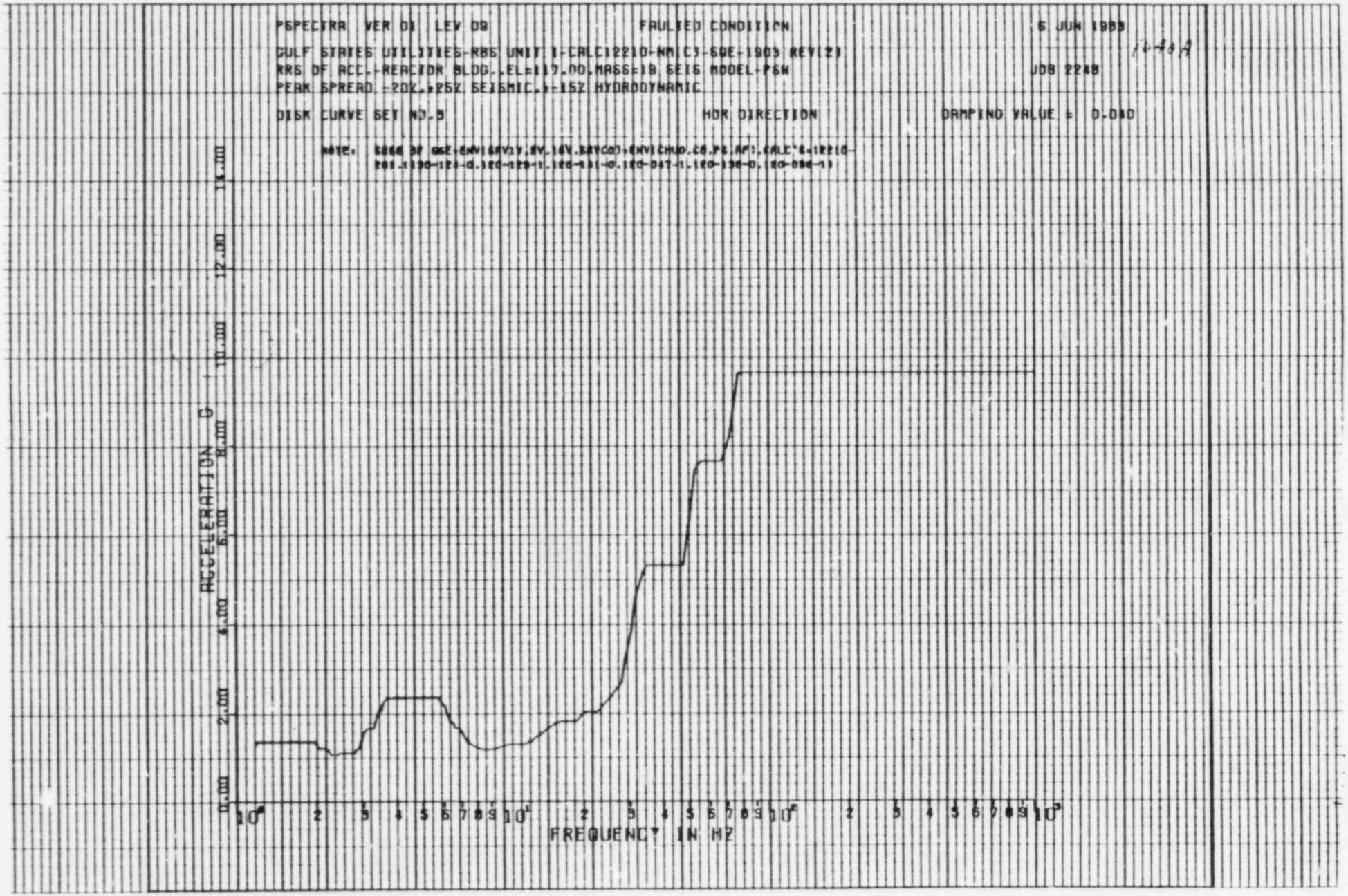


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
5 JUN 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SDE-1903 REV(2)
RRS OF ACC.-REACTOR BLDG.,EL=117.00,MASS=19 SEIS MODEL-PSW
JOB 2236
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
DISK CURVE SET NO.5
HOR DIRECTION
DAMPING VALUE = 0.080
ACCELERATION G
FREQUENCY IN HZ

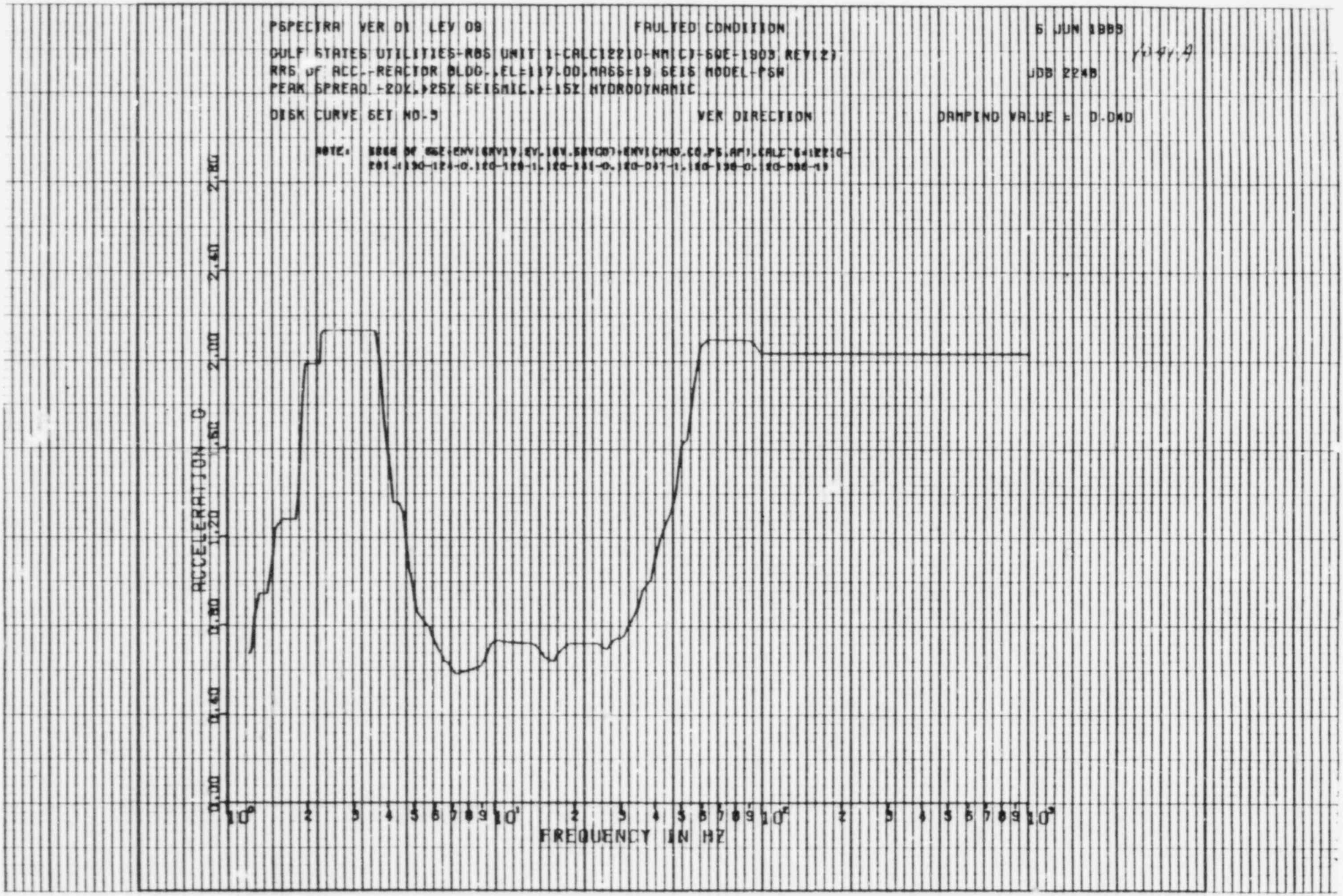
REF 54



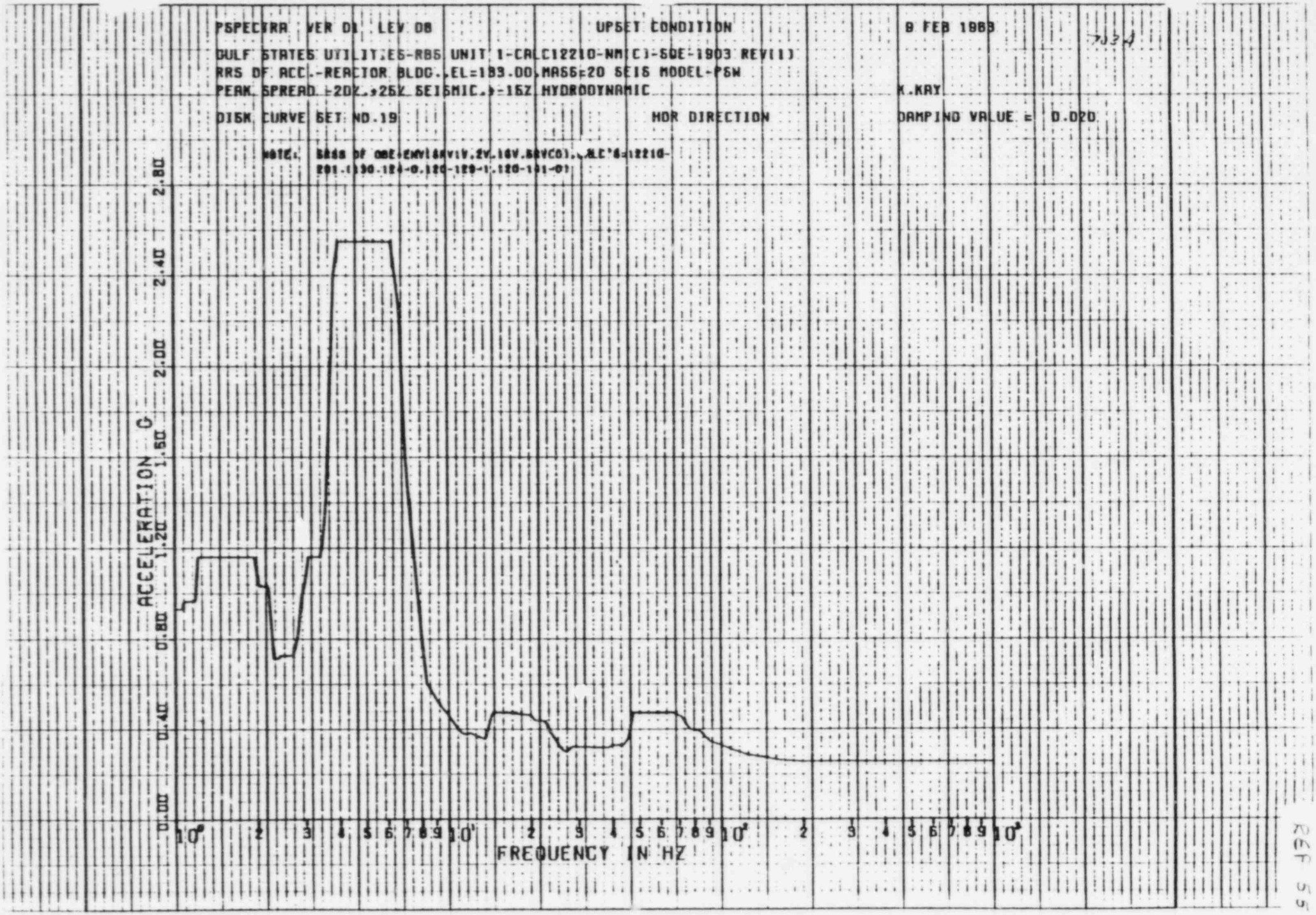
PSPECTRA VER 01 LEV 08
FAULTED CONDITION
5 JUN 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SDE-1903 REV(2)
RRS OF ACC.-REACTOR BLDG.,EL=117.00,MASS=19 SE,6 MODEL-PSW
JOB 2296
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
DISK CURVE SET NO.5
VER DIRECTION
DAMPING VALUE = 0.050
NOTE:
ACCELERATION G
2.80
2.40
2.00
1.60
1.20
0.80
0.40
0.00
FREQUENCY IN HZ

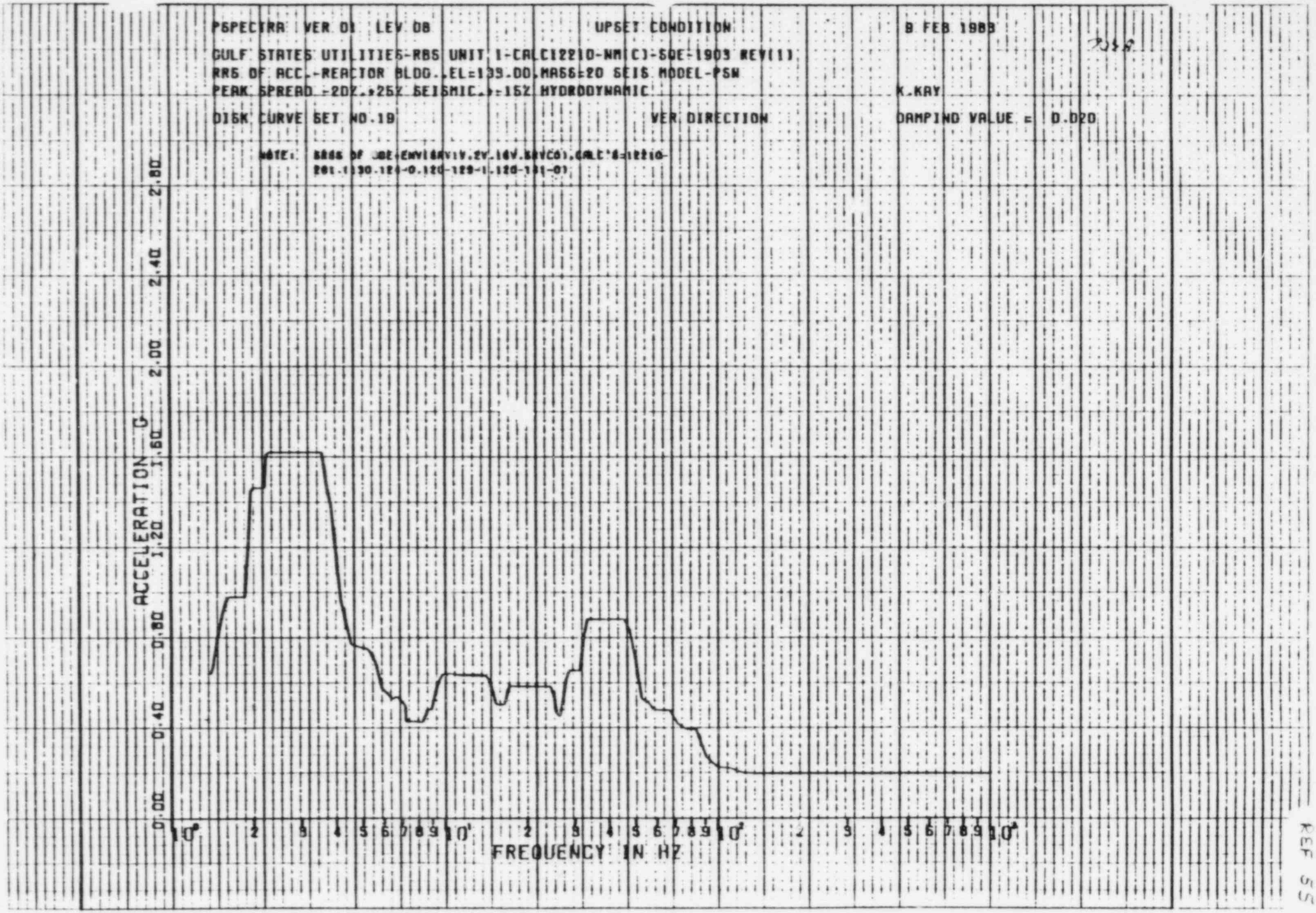

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
6 JUN 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM-C5-60E-1903 REV(2)
RBS OF ACC.-REACTOR BLDG.,EL=117.00,MASS=18 SEIS MODEL-PSW
UDB 2248
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
DISK CURVE SET NO.3
HOR DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
0.00
2.00
4.00
6.00
8.00
10.00
12.00
14.00
FREQUENCY IN HZ

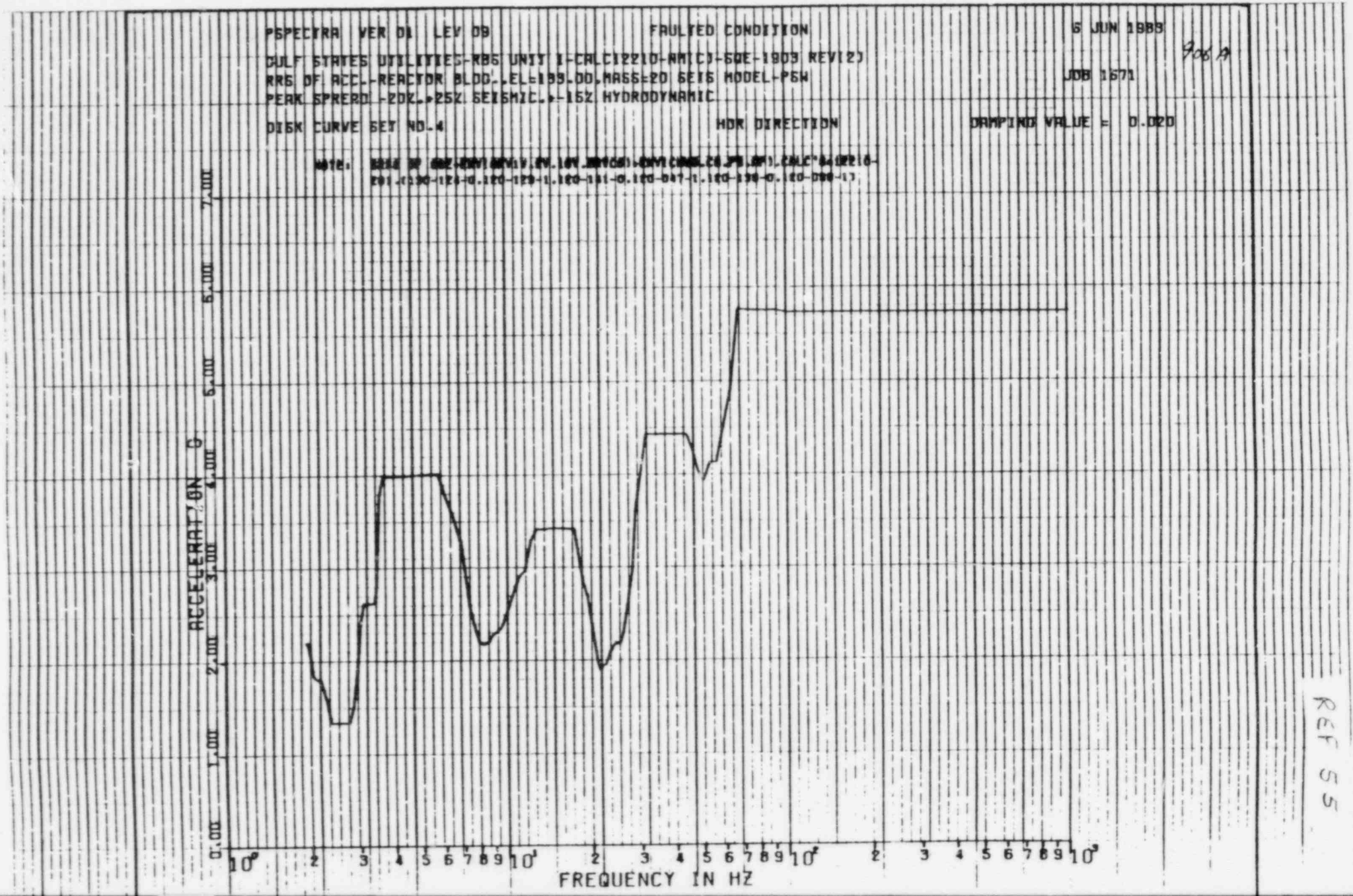
REF 54

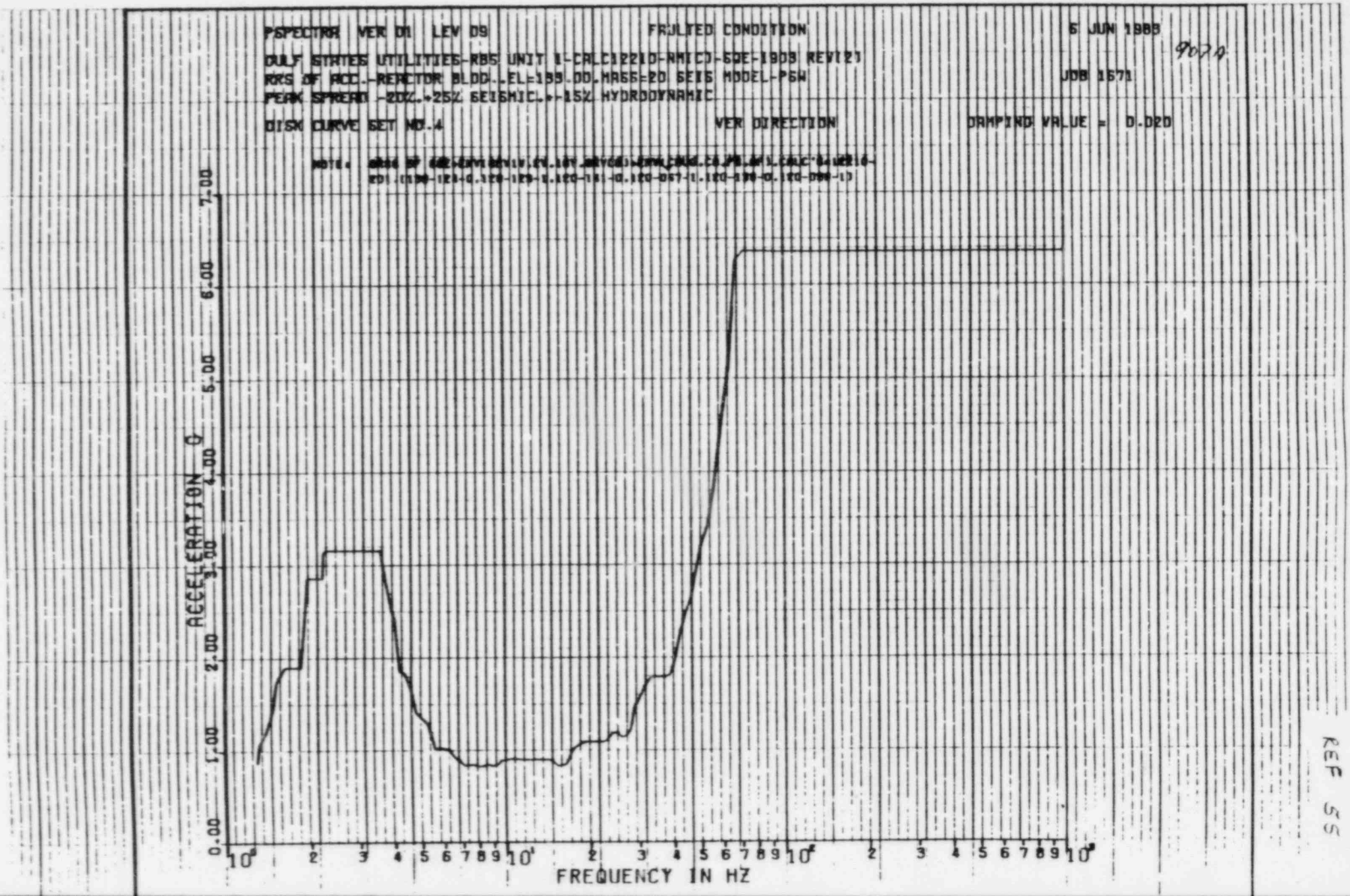

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
6 JUN 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-GQE-1903 REV(2)
RBS DF ACC.-REACTOR BLDG.,EL=117.00,MASS=19 SEIS MODEL-FSW
PEAK SPREAD +20%,-25% SEISMIC,+-15% HYDRODYNAMIC
UDB 2248
DISK CURVE SET NO.-3
VER DIRECTION
DAMPING VALUE = 0.040
NOTE:
ACCELERATION G
FREQUENCY IN HZ

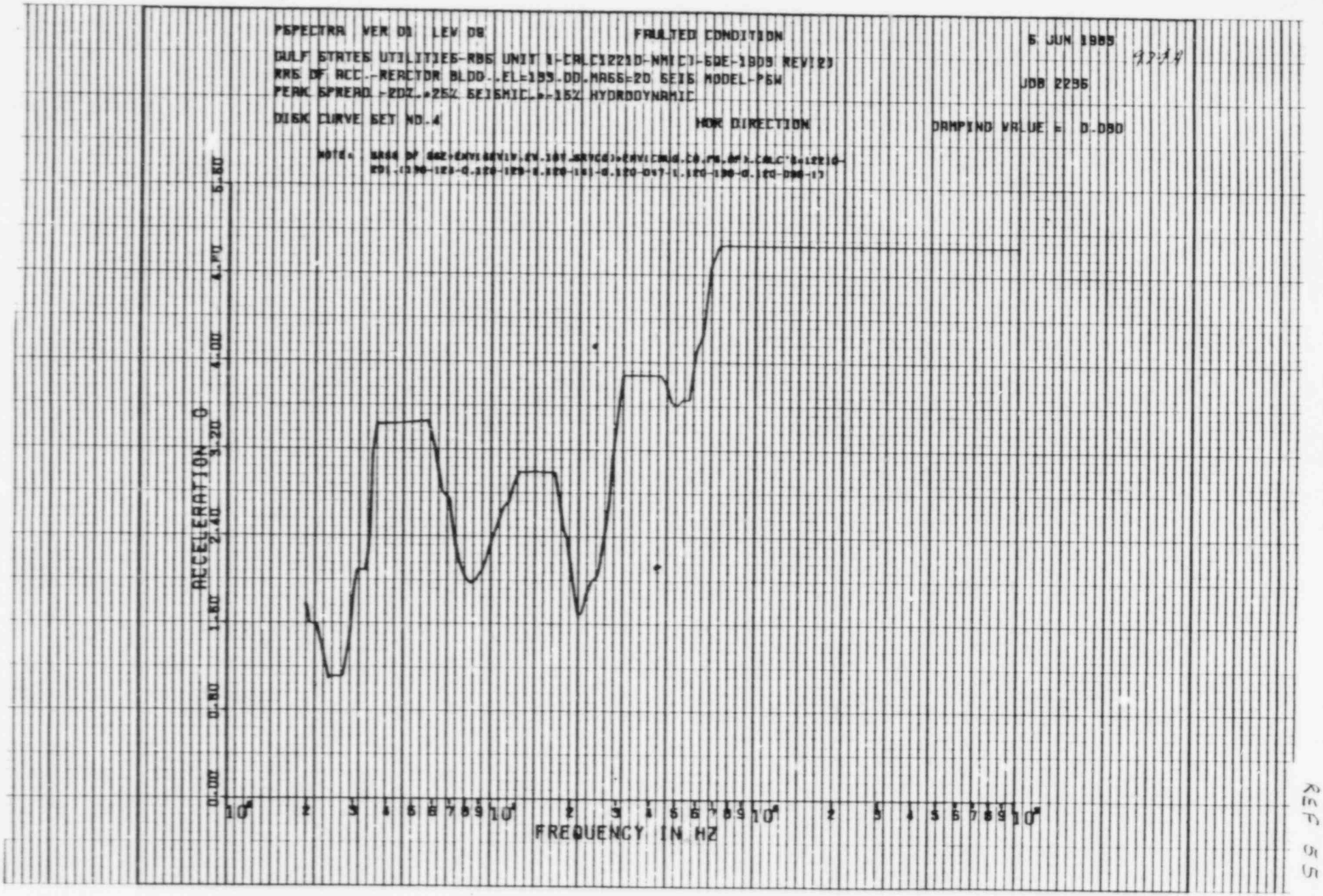
REF 54

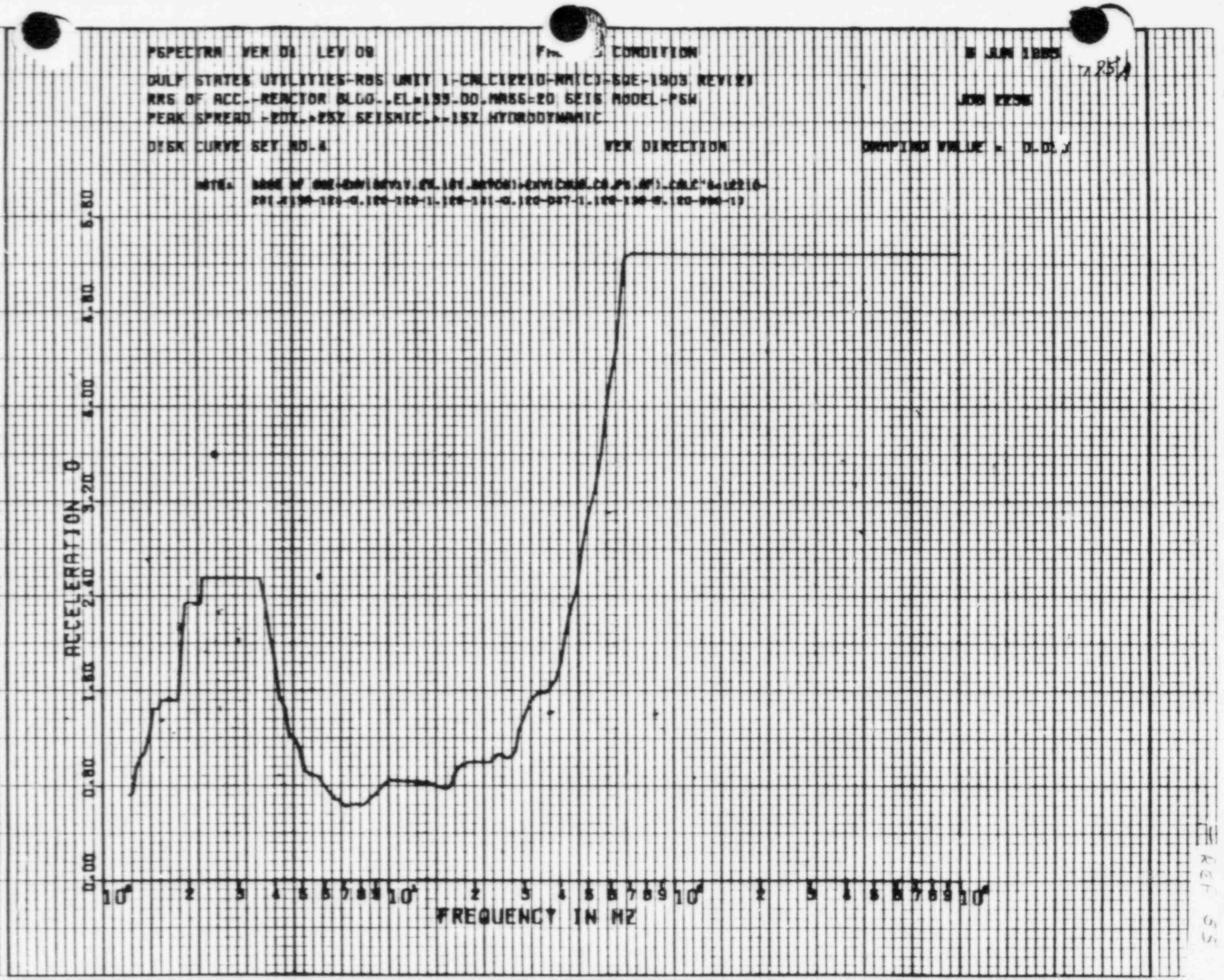

PSPECTRA VER 01 LEV 08
UPSET CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=183.00,MASS=20 SEIS MODEL-PSW
PEAK SPREAD =20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.19
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: BASIS OF OBE-ENV(&RV(1.2V,1&V,&RVCO),,&LC'S=12210-
201.(130,124-0.120-129-1.120-101-01
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
10⁰
2
3
4
5
6
7
8
9
10¹
2
3
4
5
6
7
8
9
10²
2
3
4
5
6
7
8
9
10³
FREQUENCY IN HZ

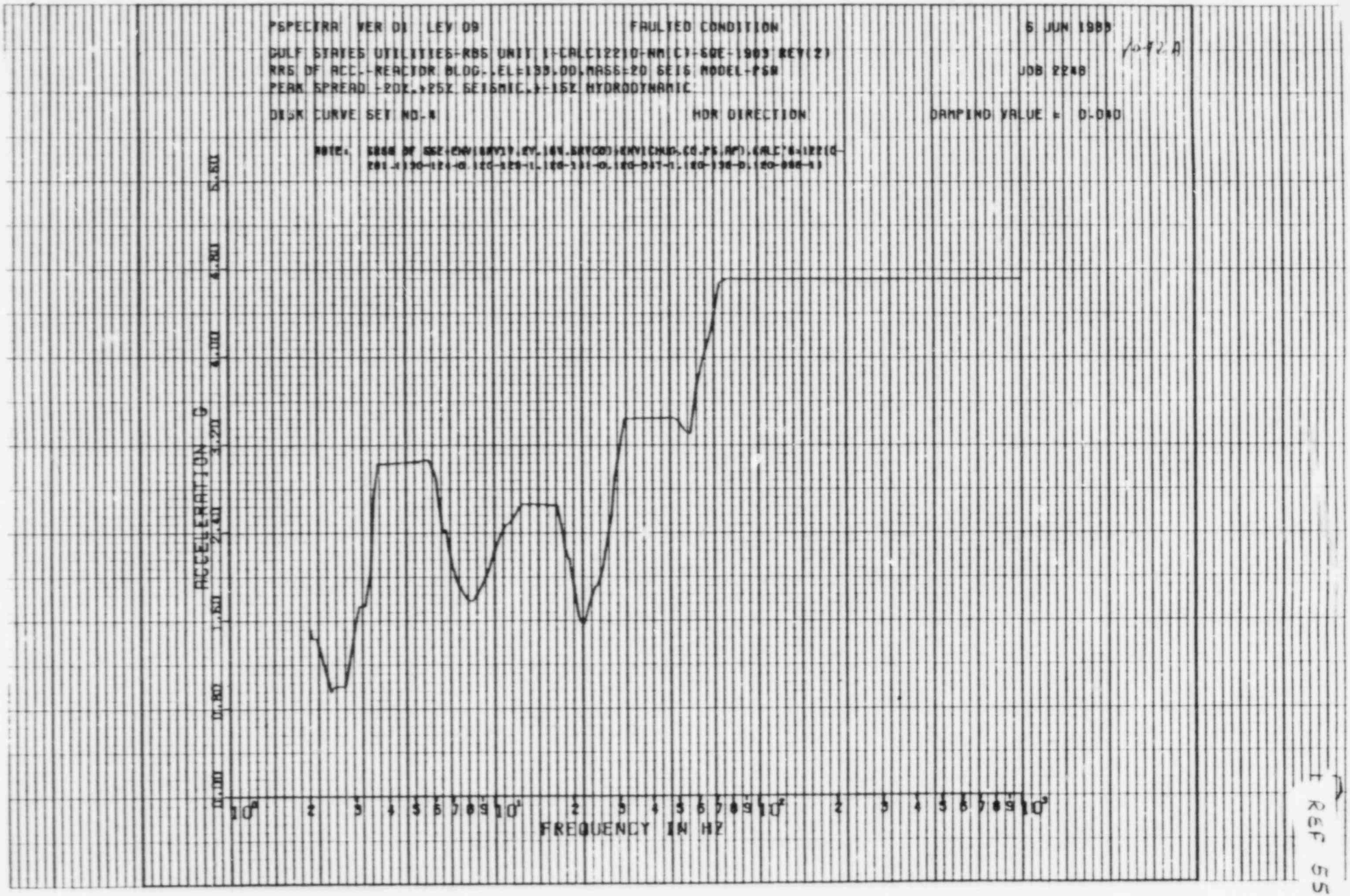

PSPECTRA VER 01 LEV 08
UPSET CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RBS OF ACC.-REACTOR BLDG. EL=139.00 MASS=20 SEIS MODEL-PSW
PEAK SPREAD =20%,+25% SEISMIC,+=15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.19
VER DIRECTION
DAMPIND VALUE = 0.020
NOTE: BASS OF JOE-ENVISRV1V.2V.16V.SRVCO).CALC'S=12210-
201.(130.124-0.120-129-1.120-131-0)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

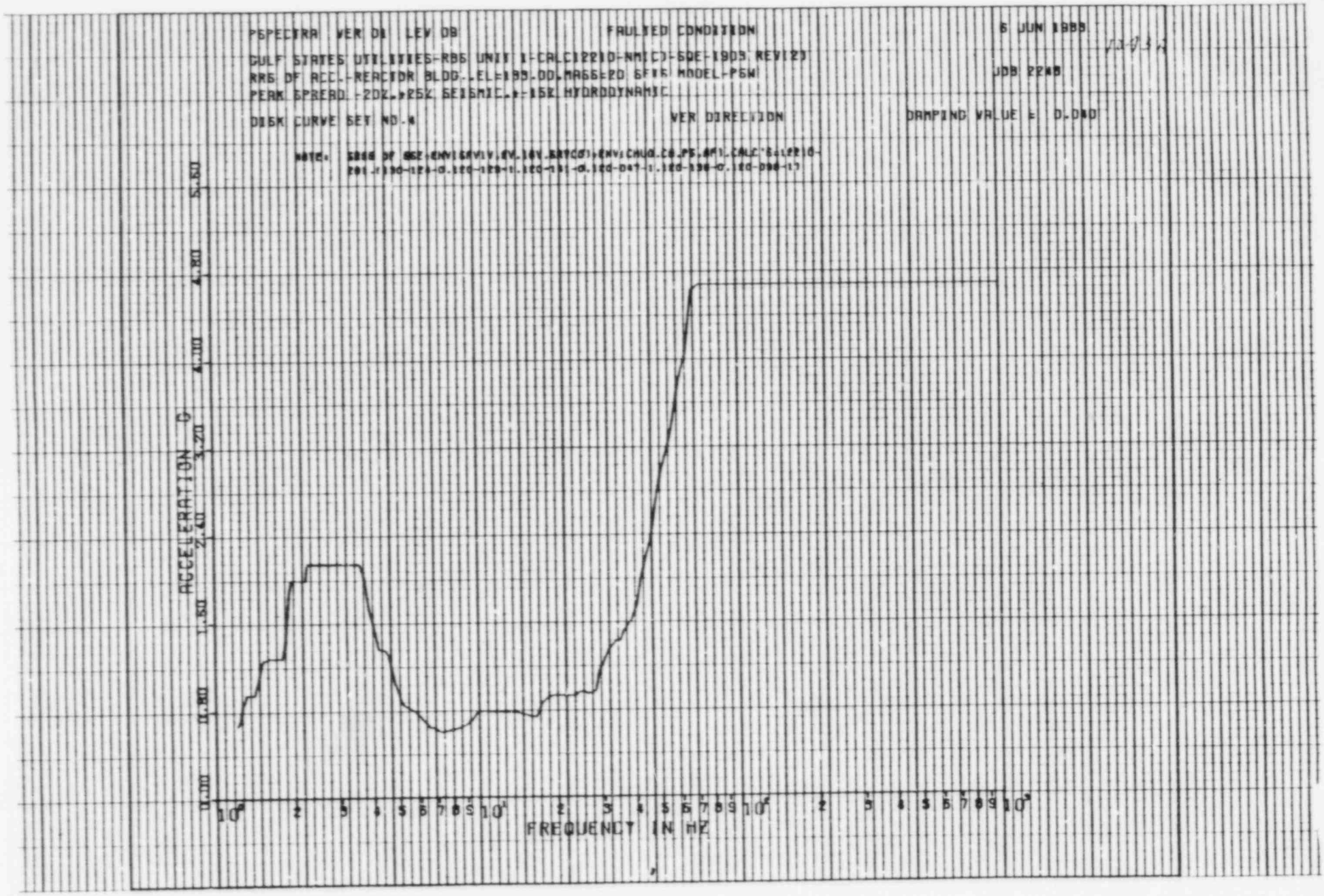

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
6 JUN 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-AM1C)-SQE-1903 REV(2)
RRS OF ACC.-REACTOR BLDG.,EL=133.00,MASS=20 SEIS MODEL-PSW
JOB 1671
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
DISK CURVE SET NO.4
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.000
1.000
2.000
3.000
4.000
5.000
6.000
7.000
FREQUENCY IN HZ
REF 55


PSPECTRA VER 01 LEV 09
FAULTED CONDITION
6 JUN 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-RMICD-SQE-1903 REV[2]
JOB 1671
RRS OF RCC.-REACTOR BLDG. EL=139.00 AZ=20 SEIS MODEL-PSW
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
DISK CURVE SET NO.4
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
1.00
2.00
3.00
4.00
5.00
6.00
7.00
FREQUENCY IN HZ

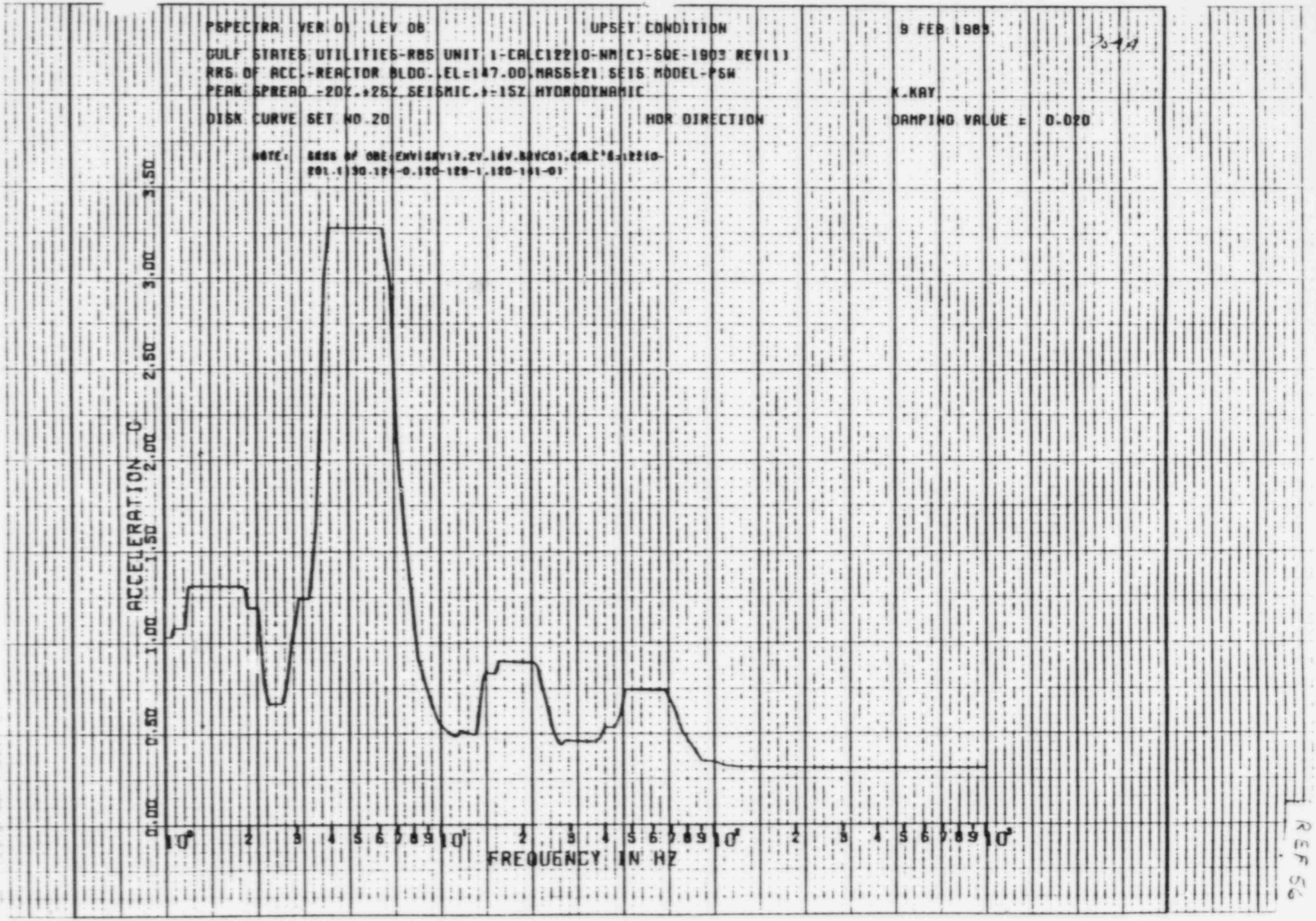

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
6 JUN 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC-SDE-1809 REV[2]
JOB 2236
DISK CURVE SET NO. 4
HORIZONTAL DIRECTION
DAMPING VALUE = 0.050
ACCELERATION g
FREQUENCY IN HZ
REF 55

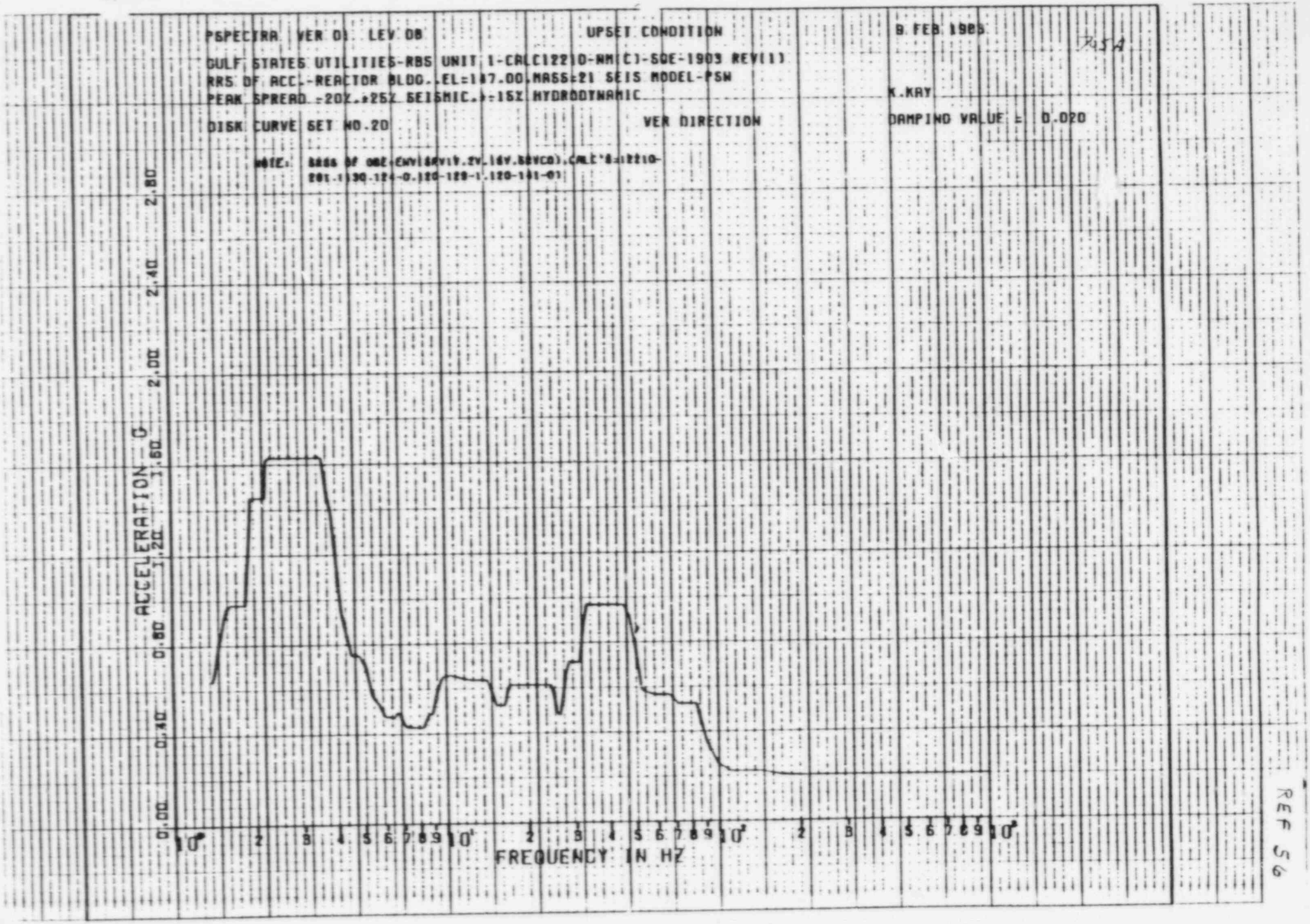

PSPECTRA VER 01 LEV 08
CONDITION
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-RM(C)-SQE-1903 REV(2)
RRS OF ACC.-REACTOR BLDG.,EL=135.00,MASS=20 SEIS MODEL-PSW
PEAK SPREAD =20%,=25% SEISMIC,=-15% HYDRODYNAMIC
DISK CURVE SET NO.=1
VER DIRECTION
DAMPING VALUE = 01.01 %
ACCELERATION G
0.00
0.80
1.60
2.40
3.20
4.00
4.80
5.60
FREQUENCY IN HZ


PSPECTRR VER 01 LEV 09
FAULTED CONDITION
6 JUN 1989
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-GQE-1903 REV(2)
RRS OF ACC.-REACTOR BLDG.-EL=139.00,MASS=20 SEIS MODEL=PSR
JOB 2248
PEAK SPREAD =20%,+25% SEISMIC,+=15% HYDRODYNAMIC
DISK CURVE SET NO.=1
HOR DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
FREQUENCY IN HZ

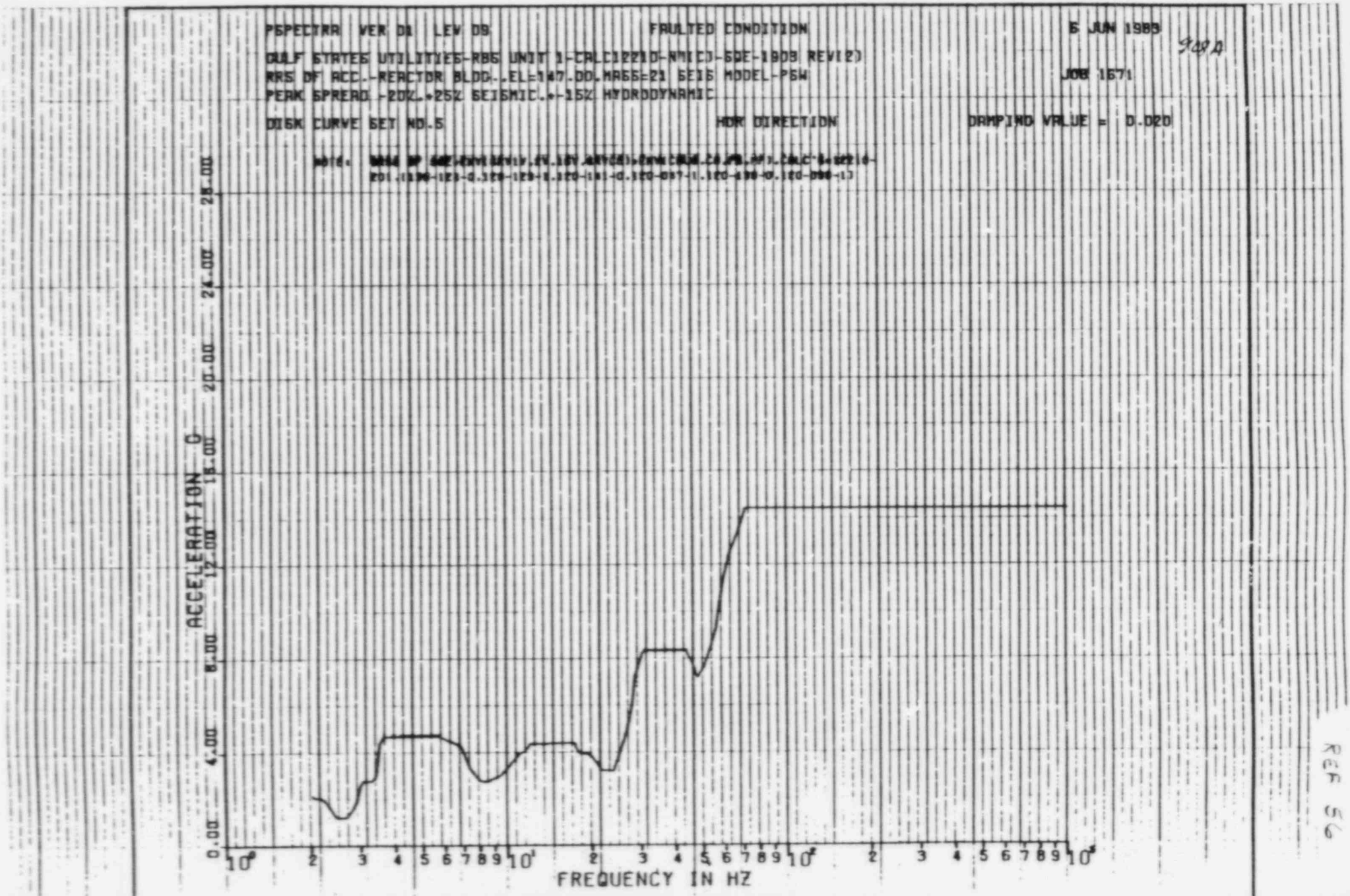

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
6 JUN 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-SDE-1903 REV(2)
RBS OF ACC.-REACTOR BLDG.-EL=135-00.MAGG=20 SPTS MODEL-PSW
PEAK SPREAD -20%.=25% SEISMIC.=-15% HYDRODYNAMIC
DESK CURVE SET NO.=
VER DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
FREQUENCY IN HZ

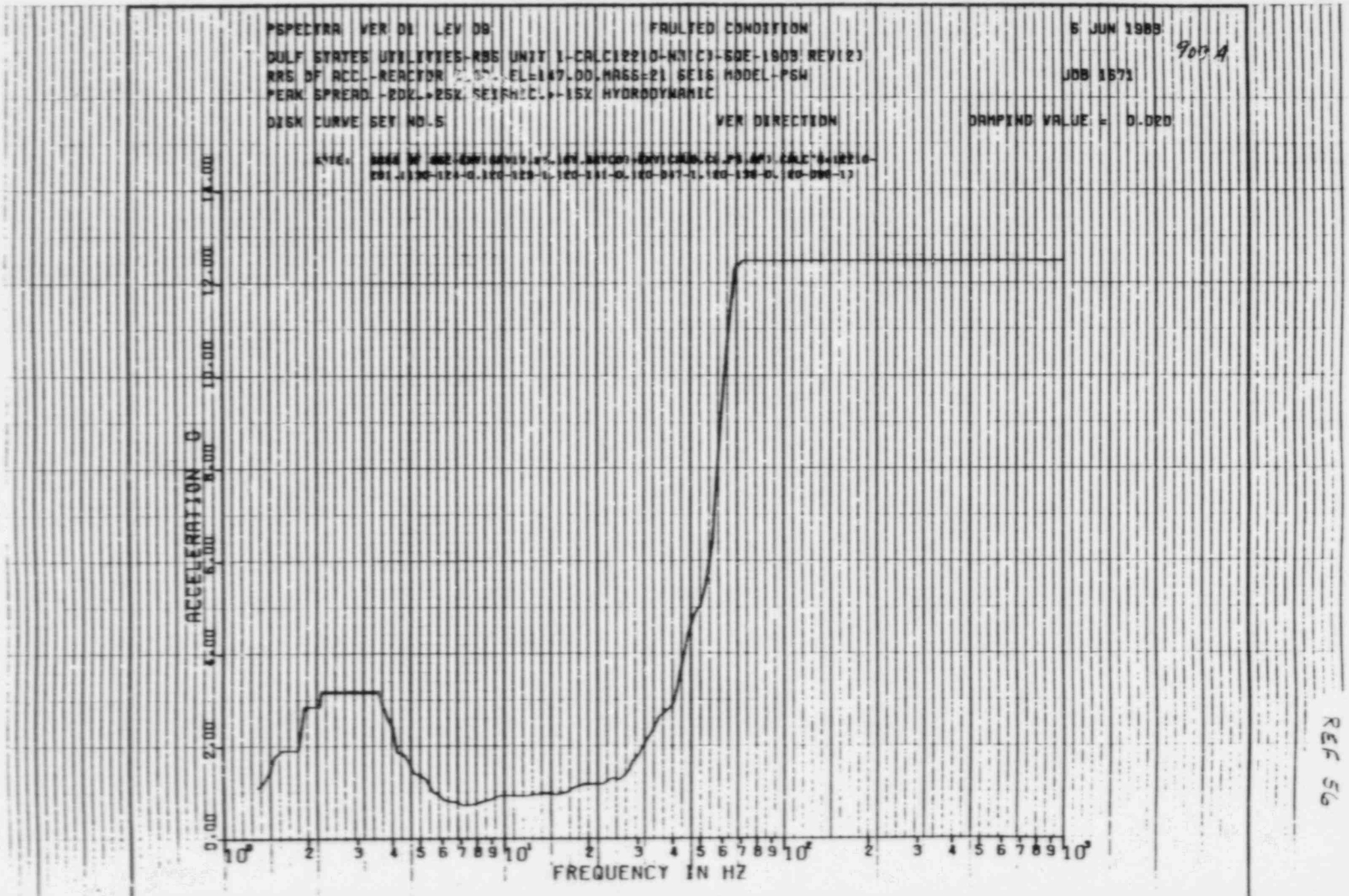
REF 55


PSPECTRA VER 01 LEV 08 UPSET CONDITION 9 FEB 1989
GULF STATES UTILITIES-RBS UNIT 1-CALC(2210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=147.00,MASS=21 SEIS MODEL-PSW
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO 20 HOR DIRECTION DAMPING VALUE = 0.020
NOTE: RRSS OF OBE(ENV(SRV19.2V,16V,82VC0),CALC'S=2210-
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ

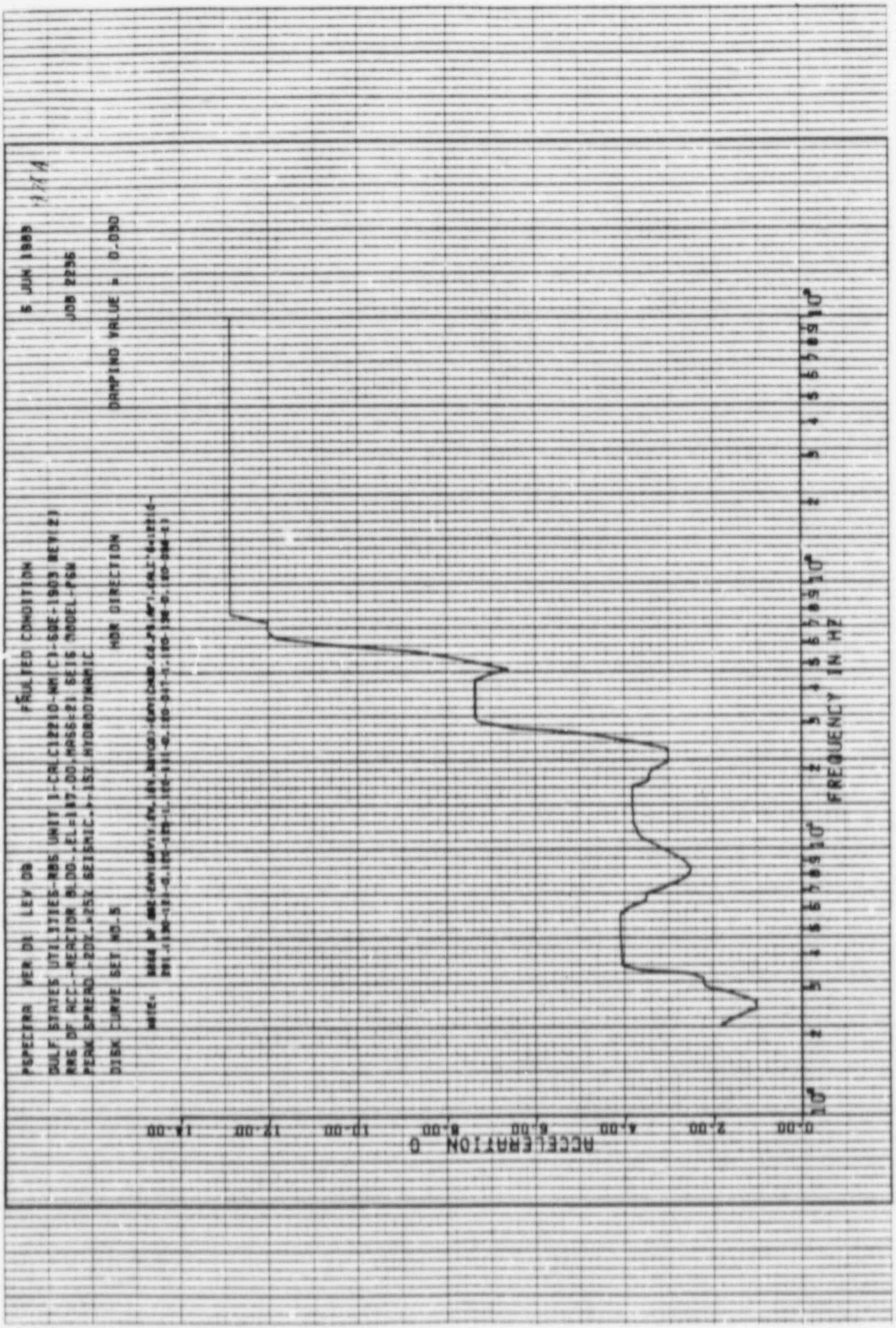

PSPECTRA VER 01 LEV 08
UPSET CONDITION
8 FEB 1985
R.5A
GULF STATES UTILITIES-RBS UNIT 1-CALC(2210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=147.00 MASS=21 SEIS MODEL-PSW
PEAK SPREAD =20%,+25% SEISMIC,)=15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.20
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: BASED OF OBE-CNV(4RV(V.2V.16V.88VCB).CALC'S=2210-201.1)30.124-0.120-129-1.120-141-01
ACCELERATION-G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
FREQUENCY IN HZ

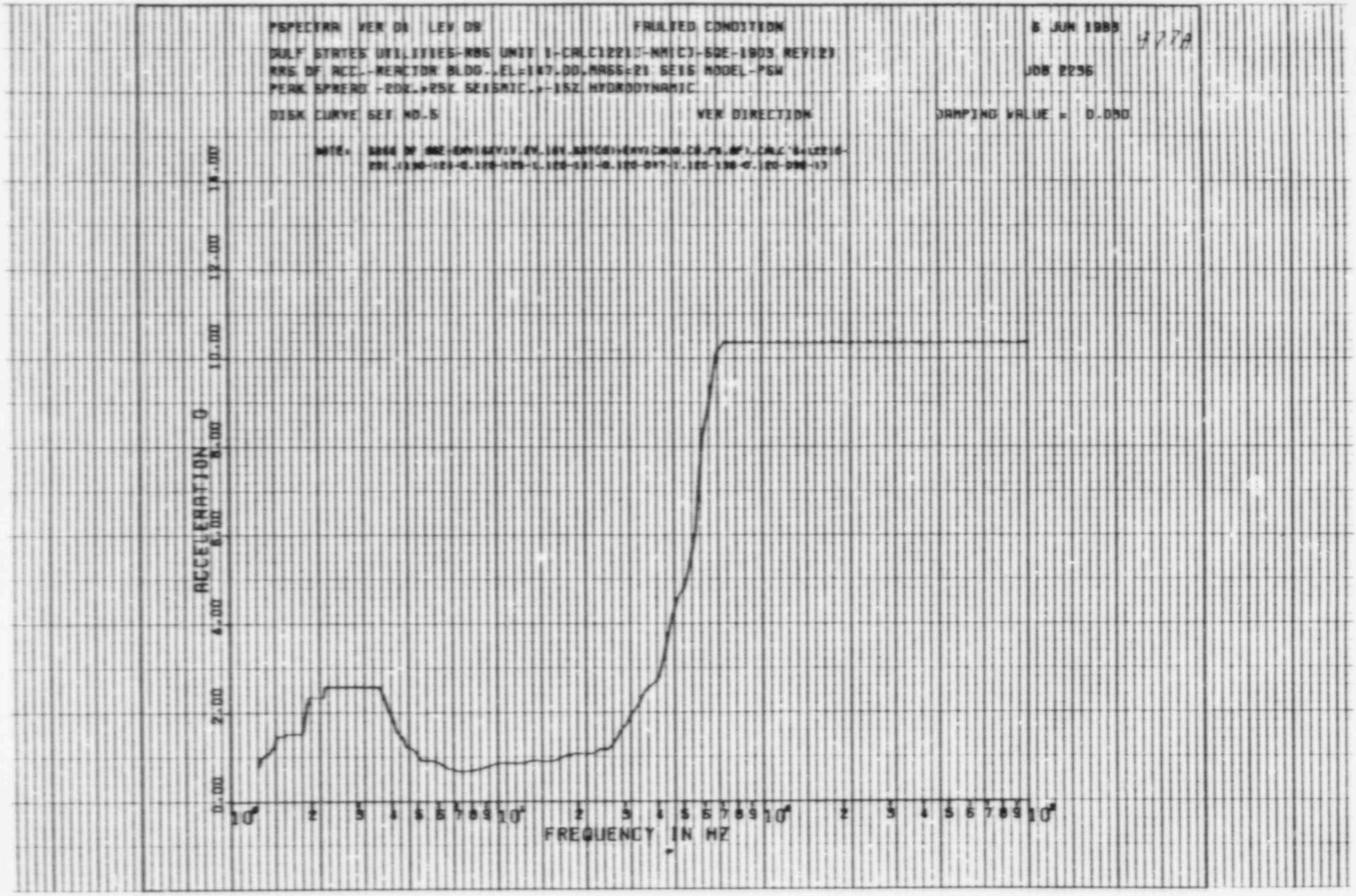
REF 56


PSPECTRR VER 01 LEV 09
FAULTED CONDITION
6 JUN 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-SQE-1903 REV(2)
JOB 1671
RRS OF ACC.-REACTOR BLDG.-EL=147.00.MASS=21 SEIS MODEL-PSW
PEAK SPREAD =20%,+25% SEISMIC,+-15% HYDRODYNAMIC
DISK CURVE SET NO.5
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
4.00
8.00
12.00
16.00
20.00
24.00
28.00
FREQUENCY IN HZ
REF 56

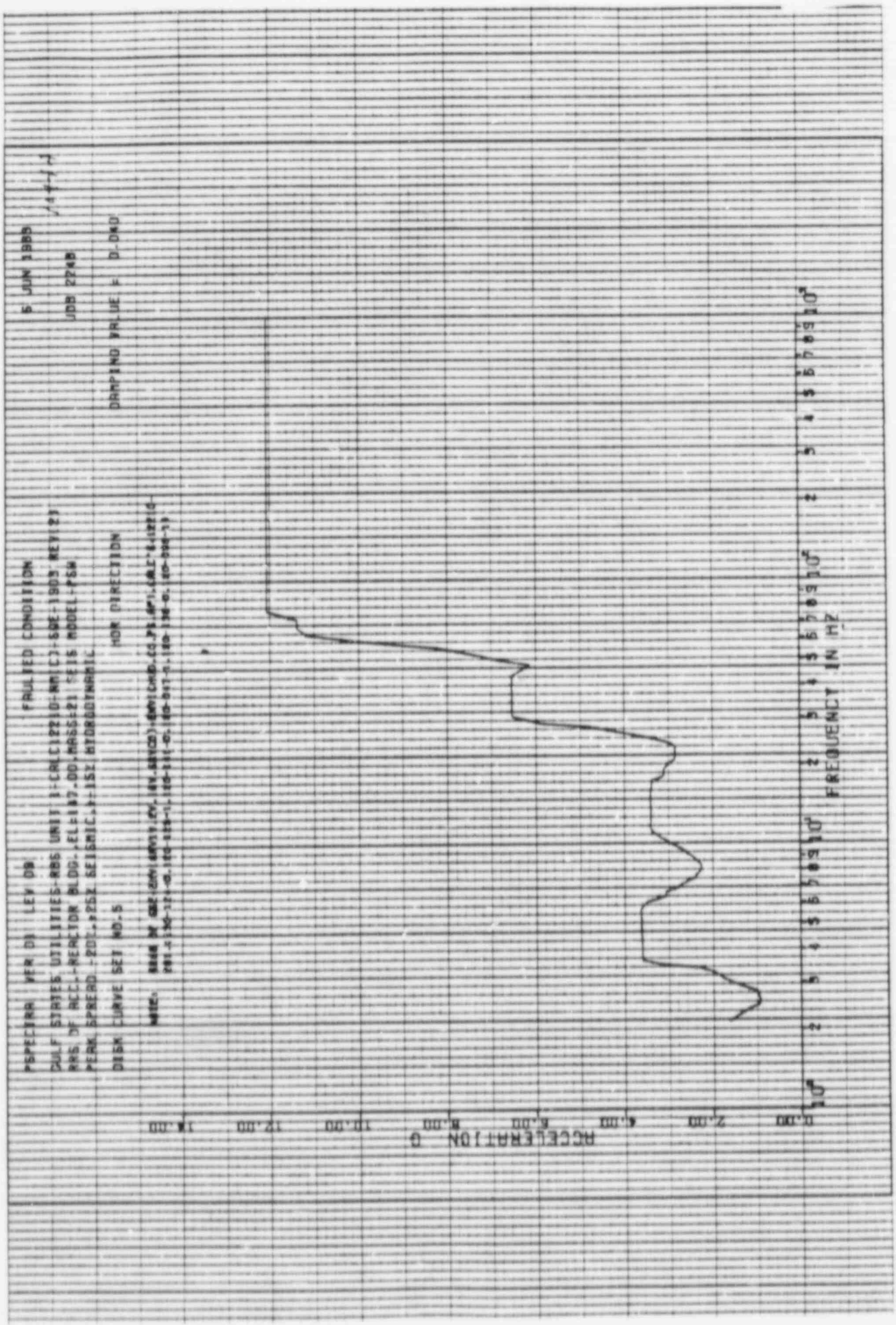

PSPECTRR VER 01 LEV 08 FAULTED CONDITION
5 JUN 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NT(C)-SQE-1903 REV(2)
JOB 1671
PEAK SPREAD -20%->25% SEISMIC,->15% HYDRODYNAMIC
DISK CURVE SET NO-5
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
2.00
4.00
6.00
8.00
10.00
12.00
14.00
FREQUENCY IN HZ
REF 56

REF 56

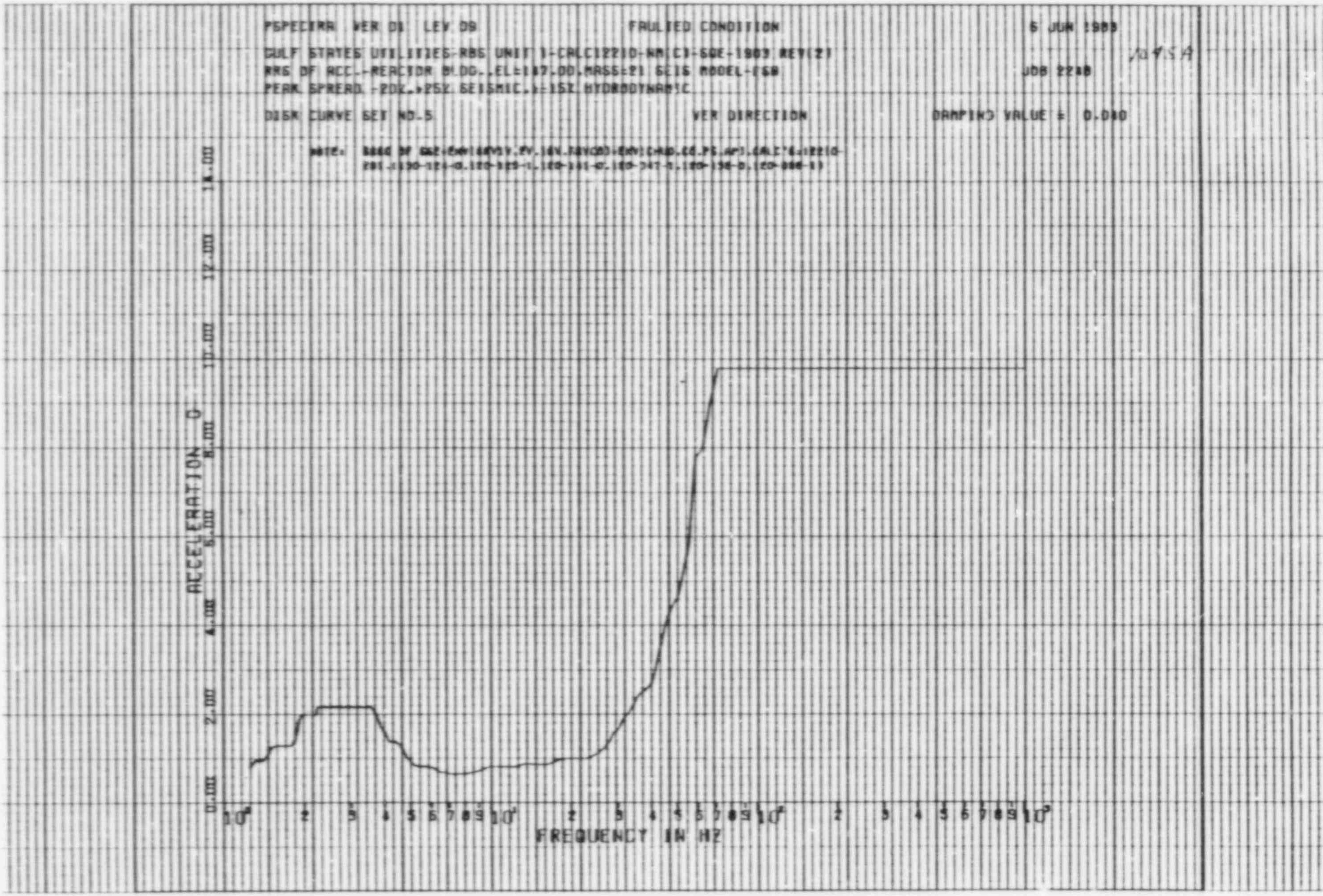

5 JUN 1989
JOB 2256
DAMPING VALUE = 0.050
FAULTED CONDITION
PERKINS NEW DB LEV DB
GULF STATES UTILITIES-RBS UNIT 1-CALC1222ID-WH(C)-SQE-1903 REV(2)
RMS OF ACC.-REACTOR BLDG.-EL=187.00,MASS=21 SEIS 500EL-PSW
PEAK SPREAD=+-20%-+-25%-SEISMIC-+-15%-HYDRODYNAMIC
DISK CURVE SET NO.5
HOR DIRECTION
ACCELERATION G
FREQUENCY IN HZ
0.00
2.00
4.00
6.00
8.00
10.00
12.00
14.00

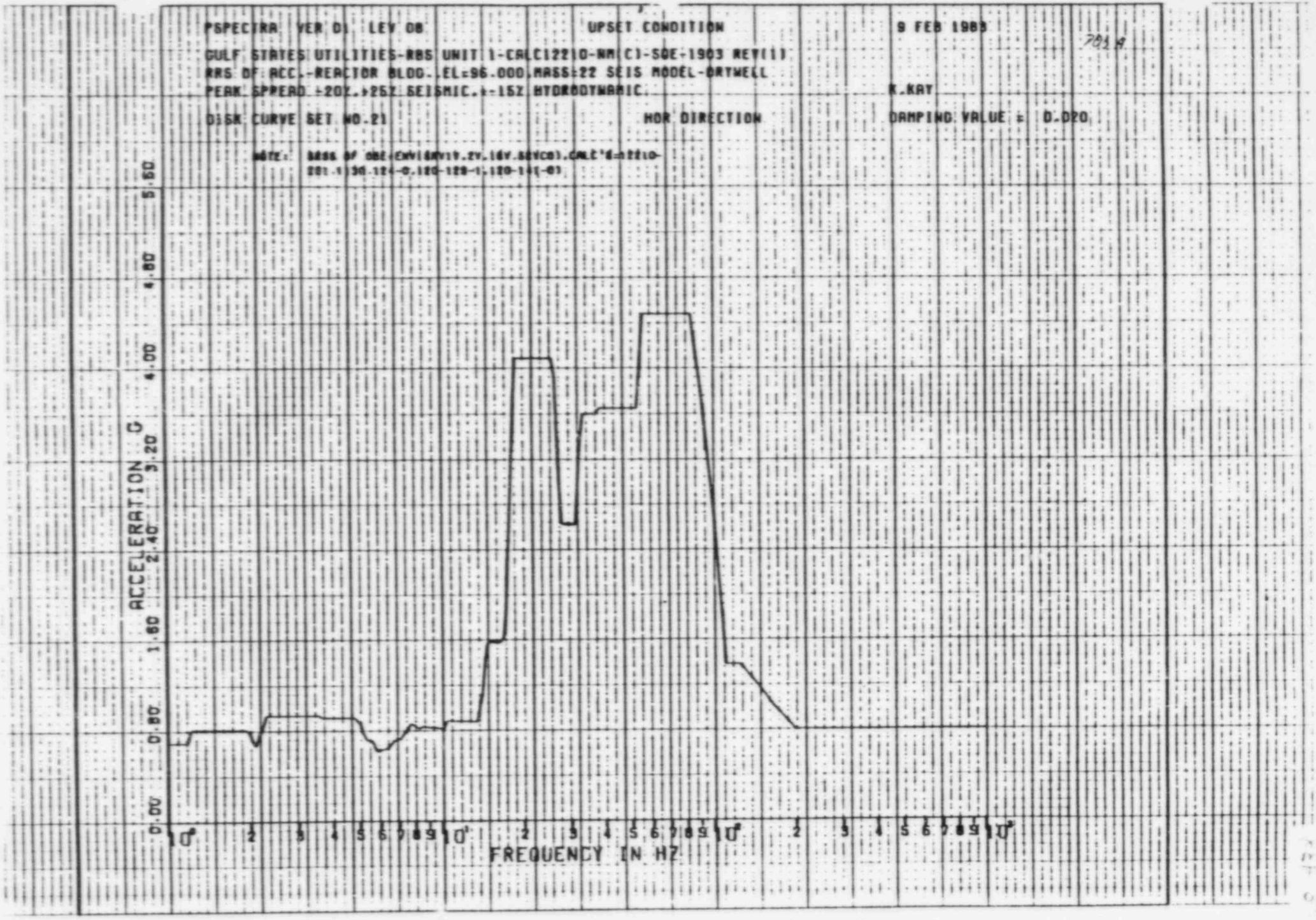

PSPECTRA VER 01 LEV 09
FAULTED CONDITION
6 JUN 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MMIC)-SQE-1803 REV(2)
RRS OF ACC.-REACTOR BLDG.,EL=147.00,AREA=21 SEIS MODEL-PSW
JOB 2236
PEAK SPREAD =20%,=PSK SEISMIC,=15% HYDRODYNAMIC
DISK CURVE SET NO.5
VER DIRECTION
DAMPING VALUE = 0.050
ACCELERATION G
0.00
2.00
4.00
6.00
8.00
10.00
12.00
14.00
FREQUENCY IN HZ

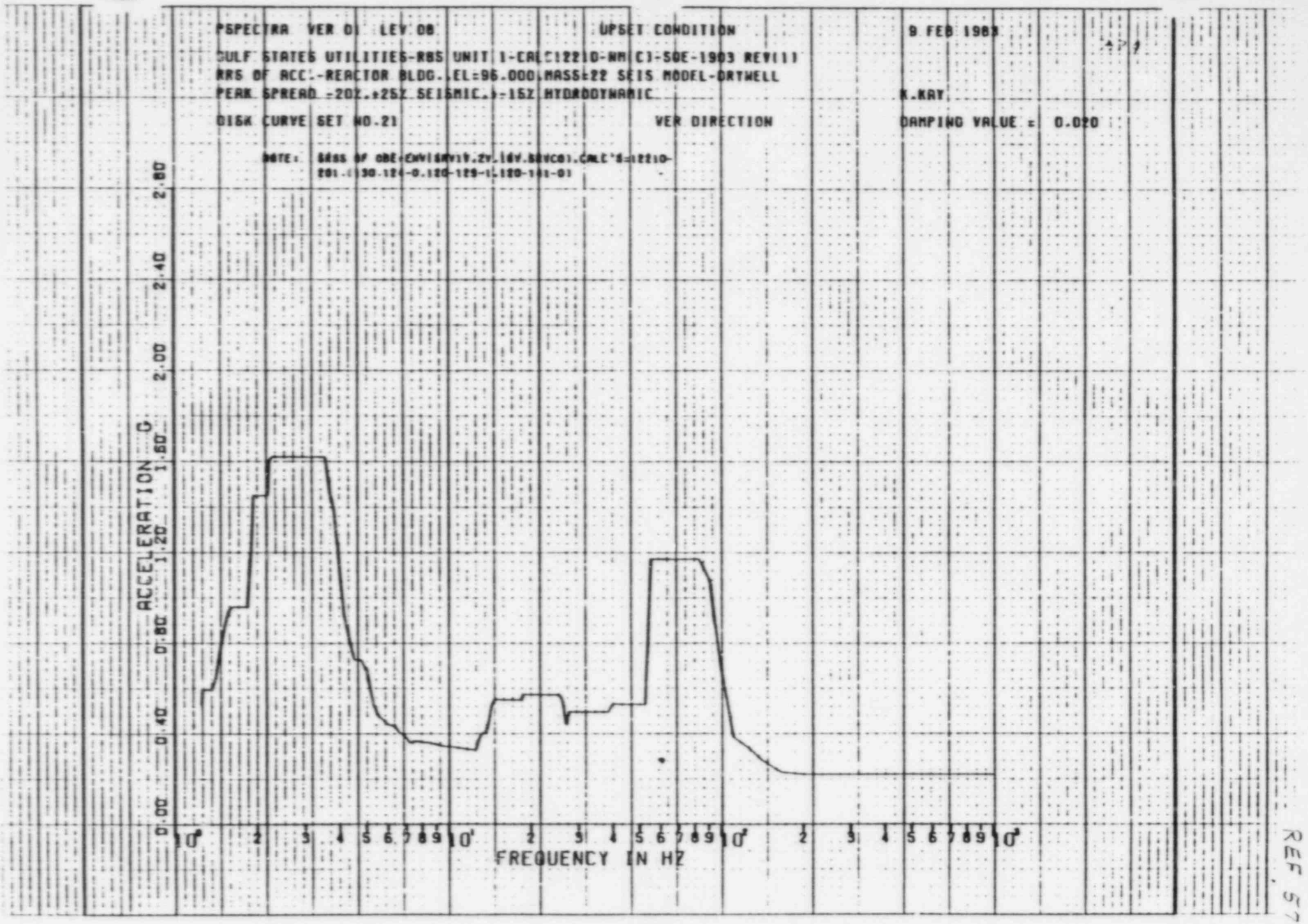
REF 56



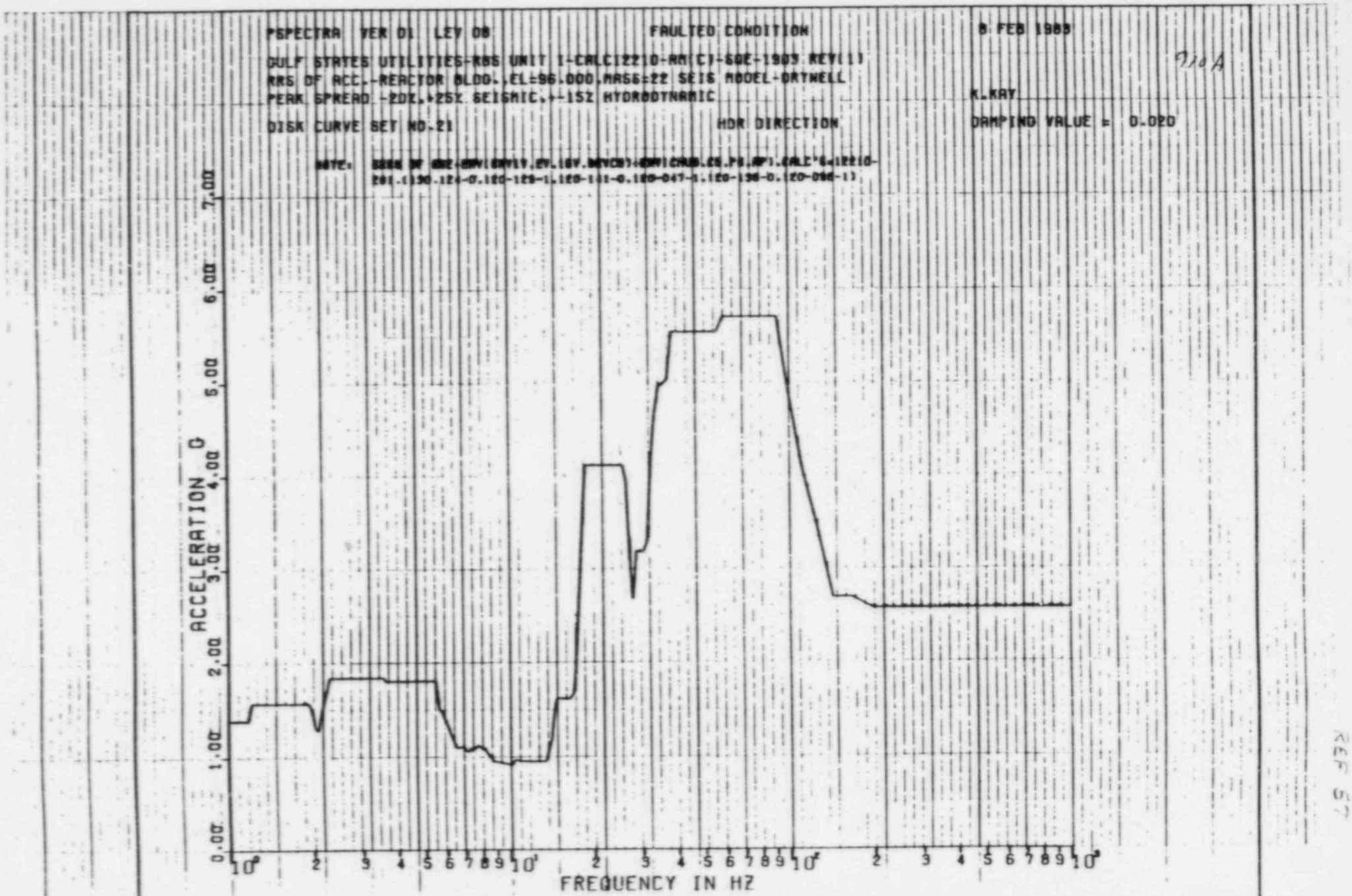
F. REF 56

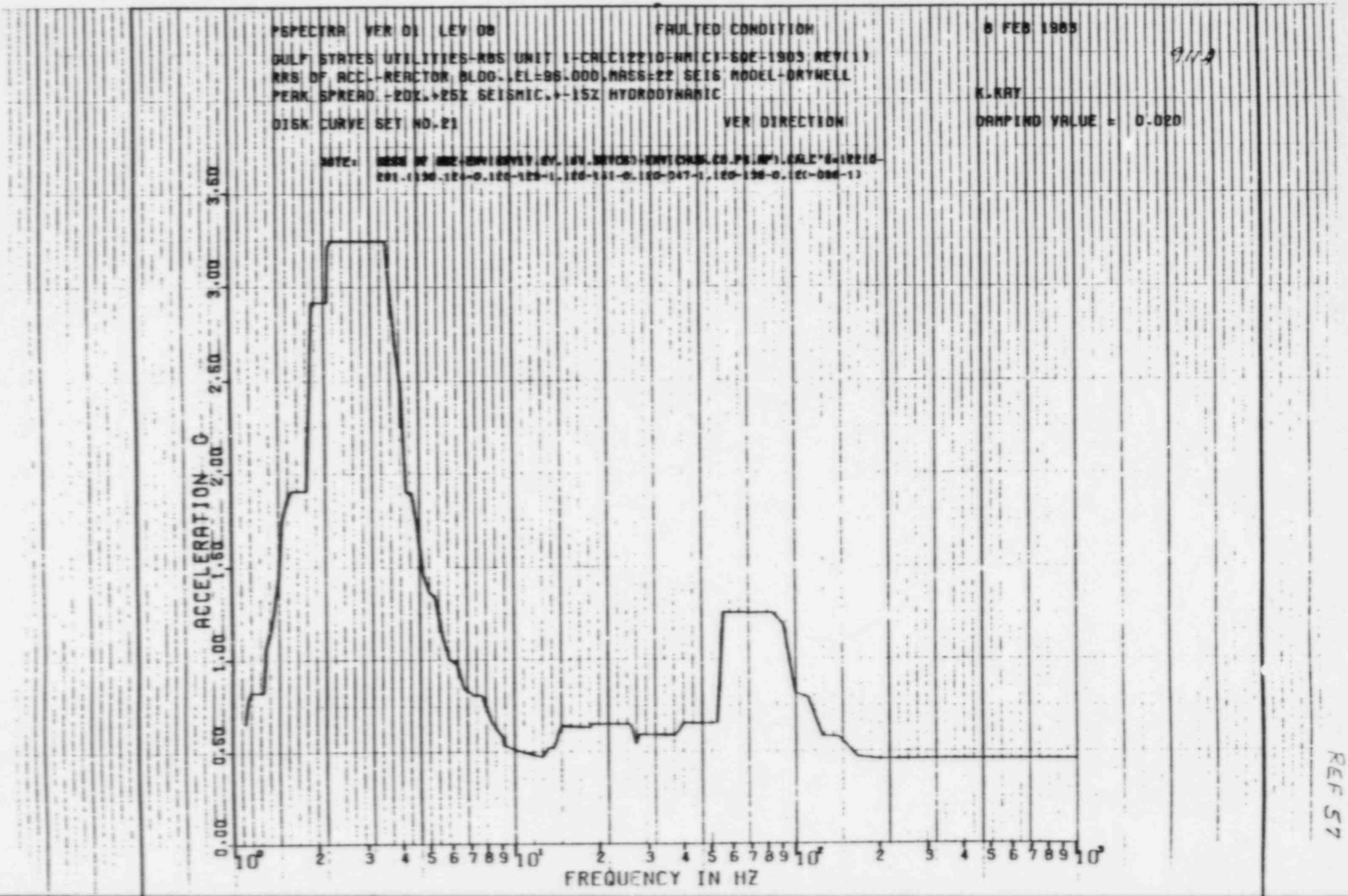

PSPECTRA VER 01 LEV 09
FAULTED CONDITION
6 JUN 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(2)
RRS OF ACC.-REACTOR BLDG.,EL=147.00,MASS=21 SEIS MODEL-(SA
JOB 2240
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
DISK CURVE SET NO.5
VER DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
FREQUENCY IN HZ


PSPECTRA YER 01 LEV 08
UPSET CONDITION
9 FEB 1989
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=96.000,MASS=22 SEIS MODEL-DRYWELL
PEAK SPREAD +20Z,+25Z SEISMIC,+-15Z HYDRODYNAMIC.
K.KAT
DISK CURVE SET NO.21
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: BASE OF OBE(ENV(&RV19.ZV,16Y.&RVC8),CALC'&=12210-
ACCELERATION G
FREQUENCY IN HZ


PSPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC:12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=96.000 MASS=22 SEIS MODEL-DRTWELL
PEAK SPREAD =20Z,+25Z SEISMIC,)=15Z HYDRODYNAMIC
R.KAY
DISK CURVE SET NO.21
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: BASS OF OBE-CNV(SRV19.2V.18V.SRVCO).CALC'S=12210-
201.(130.12(-0.12G-129-1.12G-101-01)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
10⁰
2
3
4
5
6
7
8
9
10¹
2
3
4
5
6
7
8
9
10²
2
3
4
5
6
7
8
9
10³
FREQUENCY IN HZ

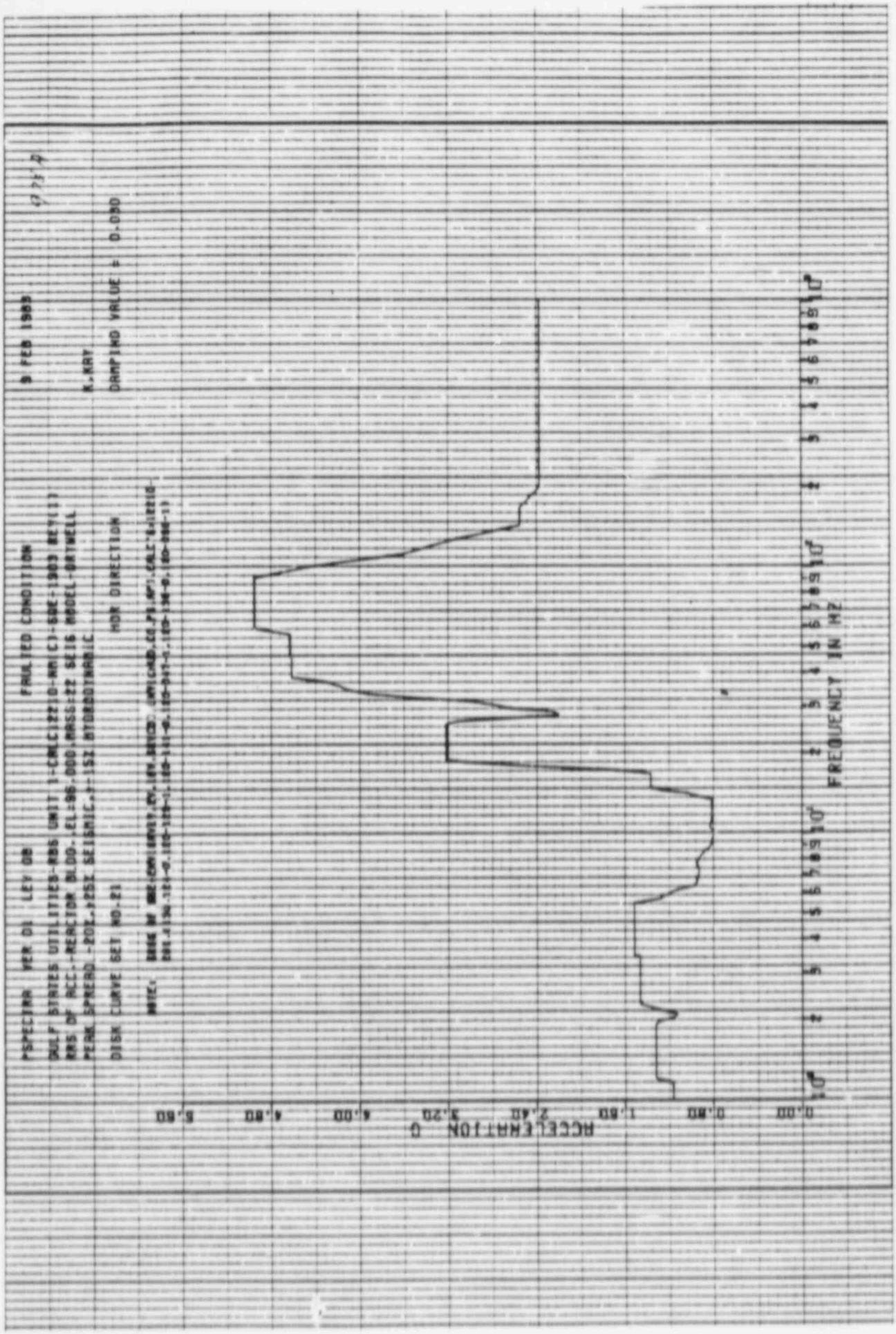
REF 57

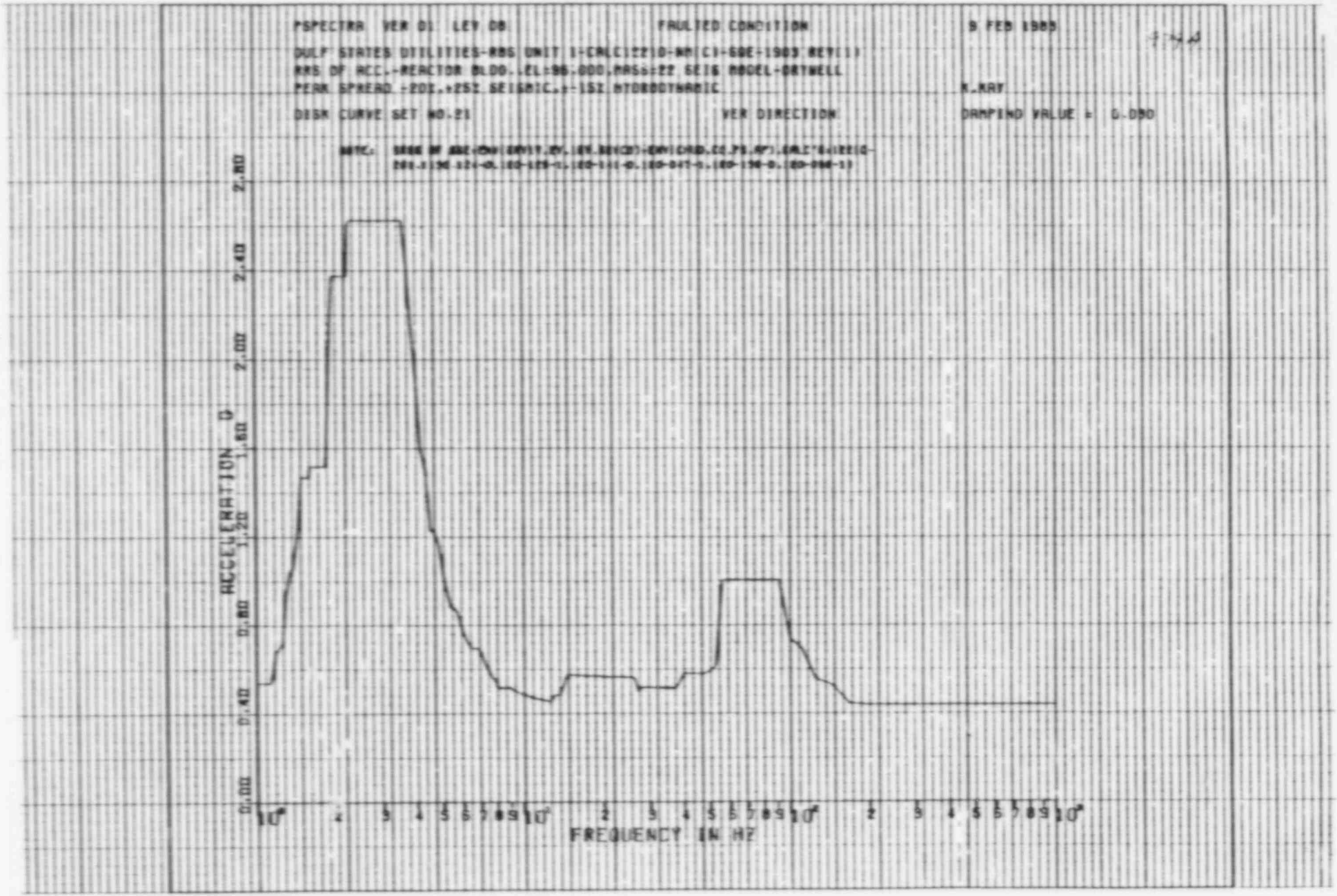

SPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1989
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-RM(C)-60E-1909 REV(1)
RMS OF ACC.-REACTOR BLDG.,EL=96.000,MASS=22 SEIS MODEL-ORYWELL
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DAMPING VALUE = 0.020
DISK CURVE SET NO.21
HDR DIRECTION
ACCELERATION G
0.00
1.00
2.00
3.00
4.00
5.00
6.00
7.00
FREQUENCY IN HZ


PSPECTRR VER 01 LEV 08
FAULTED CONDITION
8 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-AM(C)-SQE-1905 REV(1)
RBS OF ACC.-REACTOR BLDG.,EL=95.000,MASS=22 SEIS MODEL-DRYWELL
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.21
VER DIRECTION
DAMPING VALUE = 0.020
NOTE:
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
FREQUENCY IN HZ

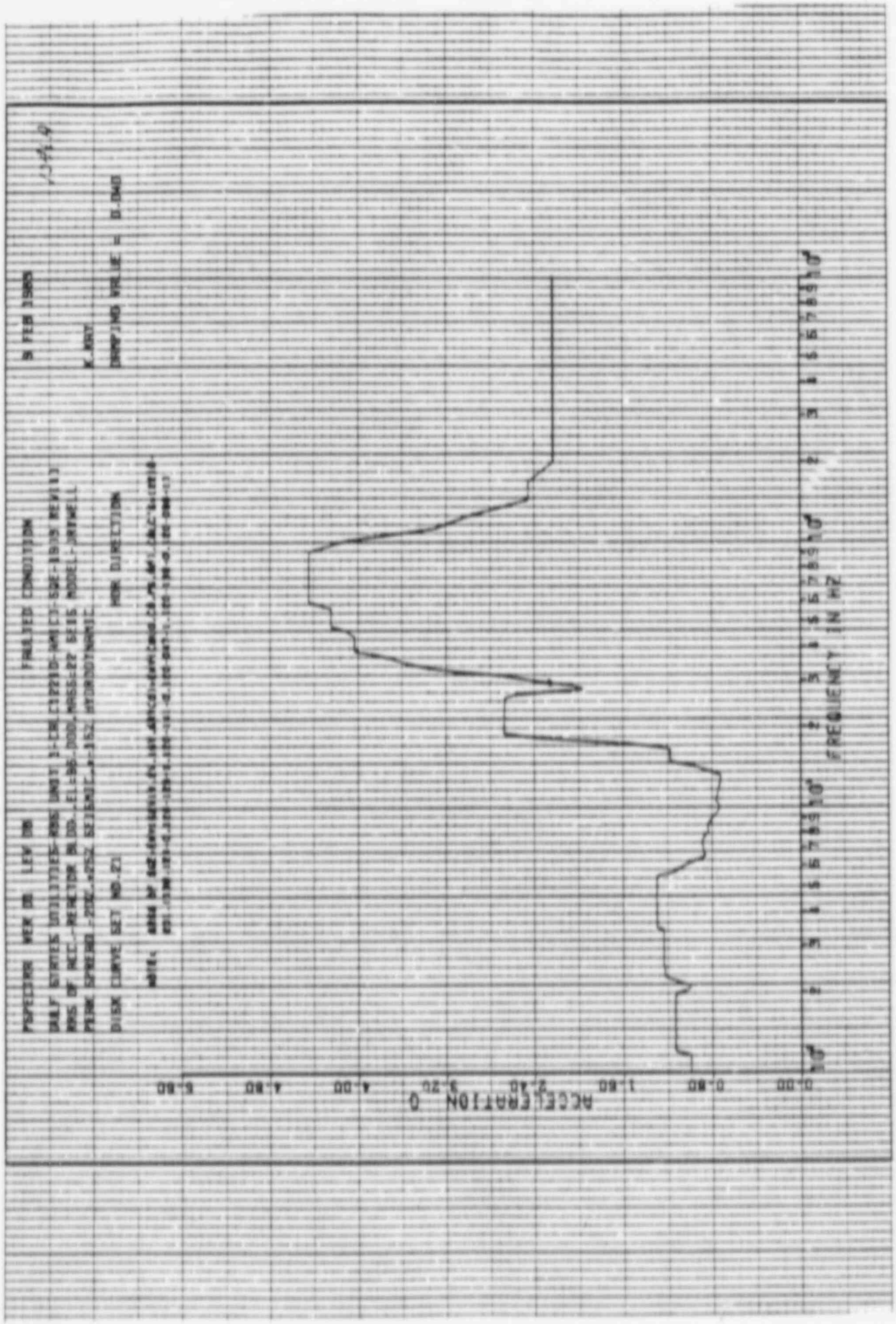
REF 57

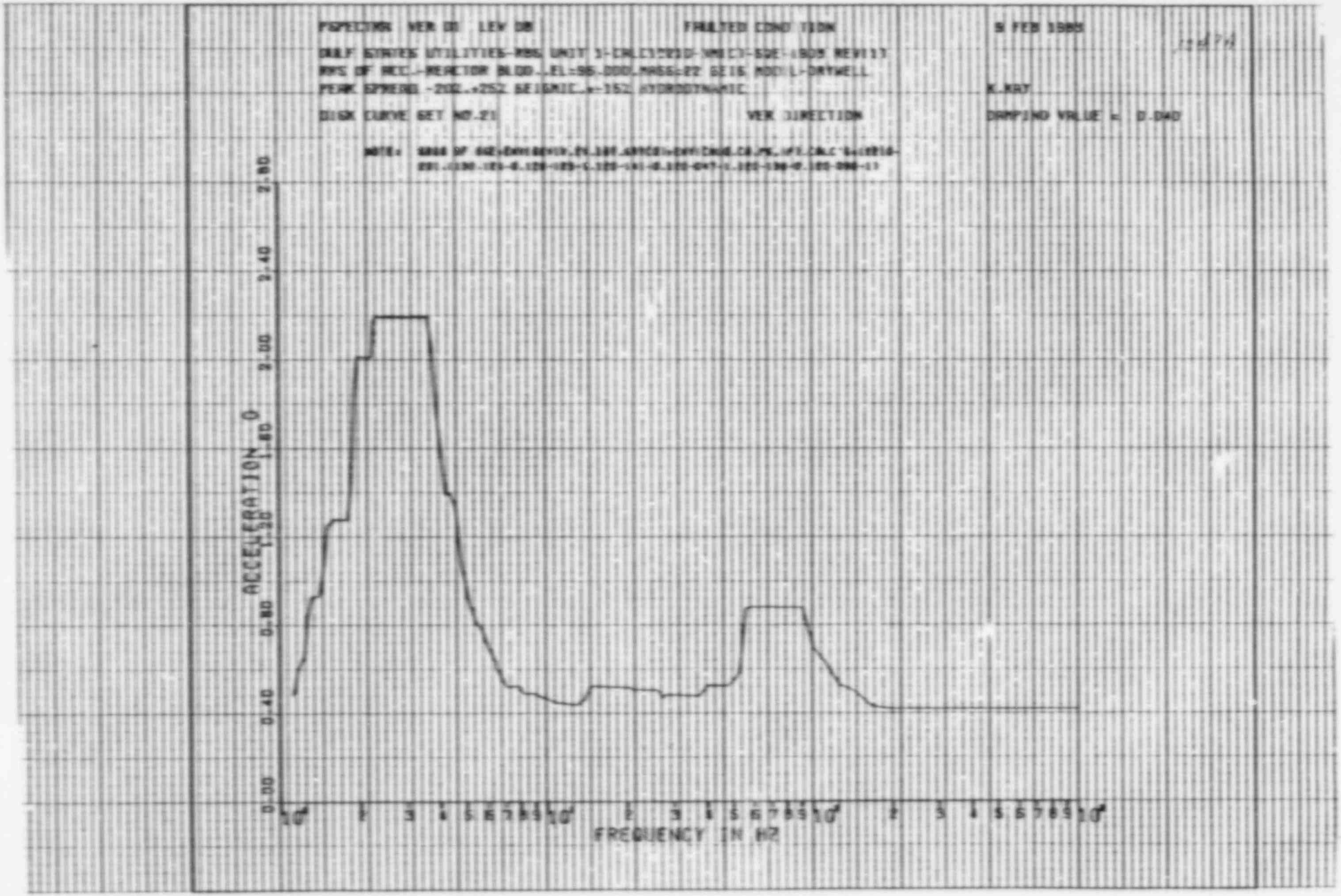
REF 57


PSPECTRA VER 01 LEV 08 FAULTED CONDITION
GULF STATES UTILITIES-RBS UNIT 1-CWLC#2210-WR(C)-SRE-1903 REV#1?
RMS OF RCC.-REACTOR BLDG.-EL:96'-000,RMSS:#2 SEIS MODEL-ORIWELL
PEAK SPREAD -20%-+PSI SEISMIC,+-1S% HYDRODYNAMIC
DISK CURVE SET NO-21
NOTE:
6 FEB 1985
K.KAY
HOR DIRECTION
DAMPING VALUE = 0.050
ACCELERATION G
FREQUENCY IN HZ
0.00
0.80
1.60
2.40
3.20
4.00
4.80
5.60


PSPECTRA VER 01 LEV 08 FAULTED CONDITION 9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC1221D-AM(C)-GDE-1983 REV(1)
RMS OF ACC.-REACTOR BLDG.-EL=95.000,MASS=22 SEIS MODEL-ORTWELL
PEAK SPREAD =20%,+25% SEISMIC,=-15% HYDRODYNAMIC
K.RAY
DESN CURVE SET NO.21 VER DIRECTION DAMPING VALUE = 0.050
NOTE:
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

REF 57




FAULTED CONDITION
5 FEB 1985
K.KAY
VER DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

PSPECTRA VER 01 LEV 08 UPSET CONDITION 9 FEB 1983

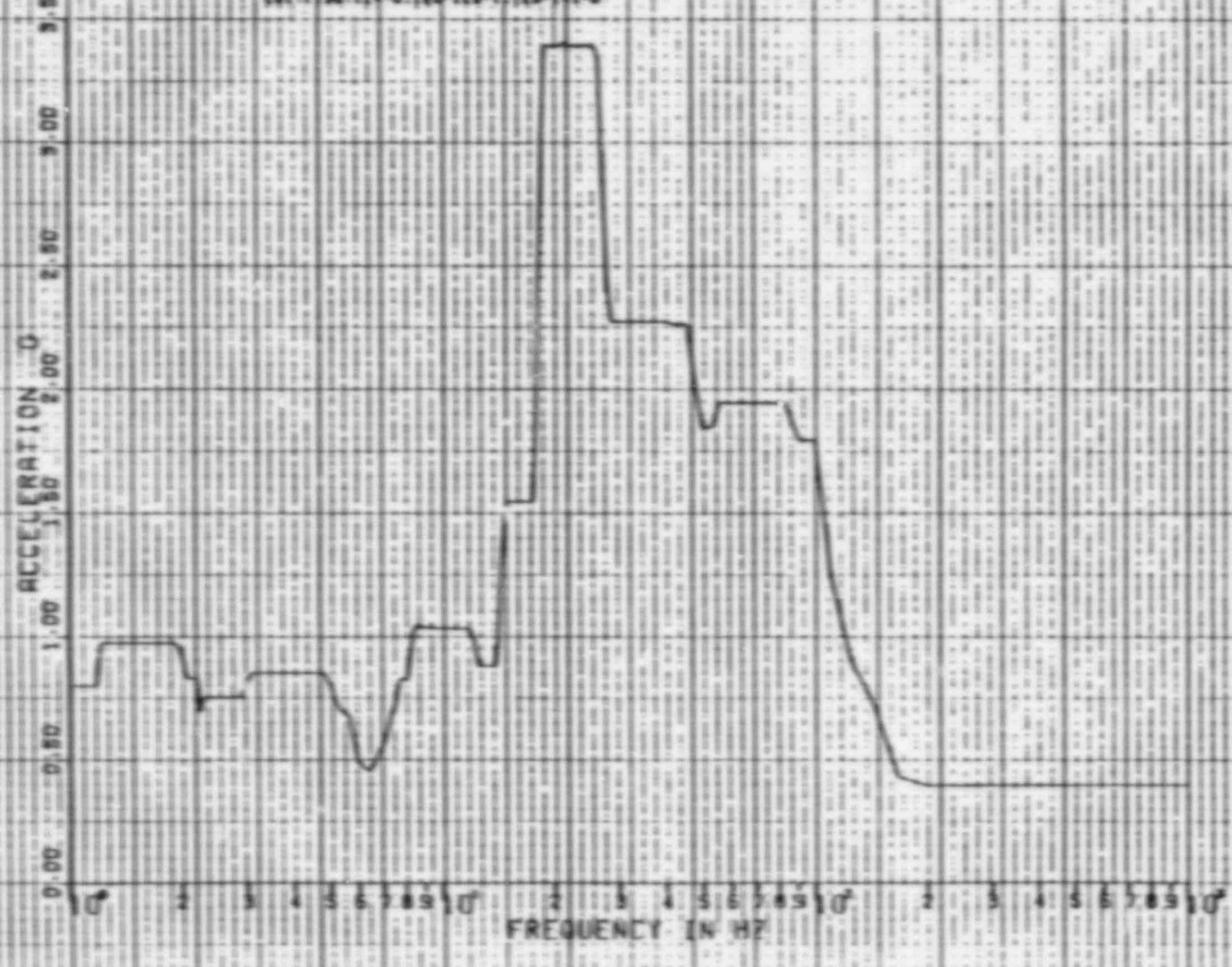
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-9M(C1-SQE-1983 REV(1))

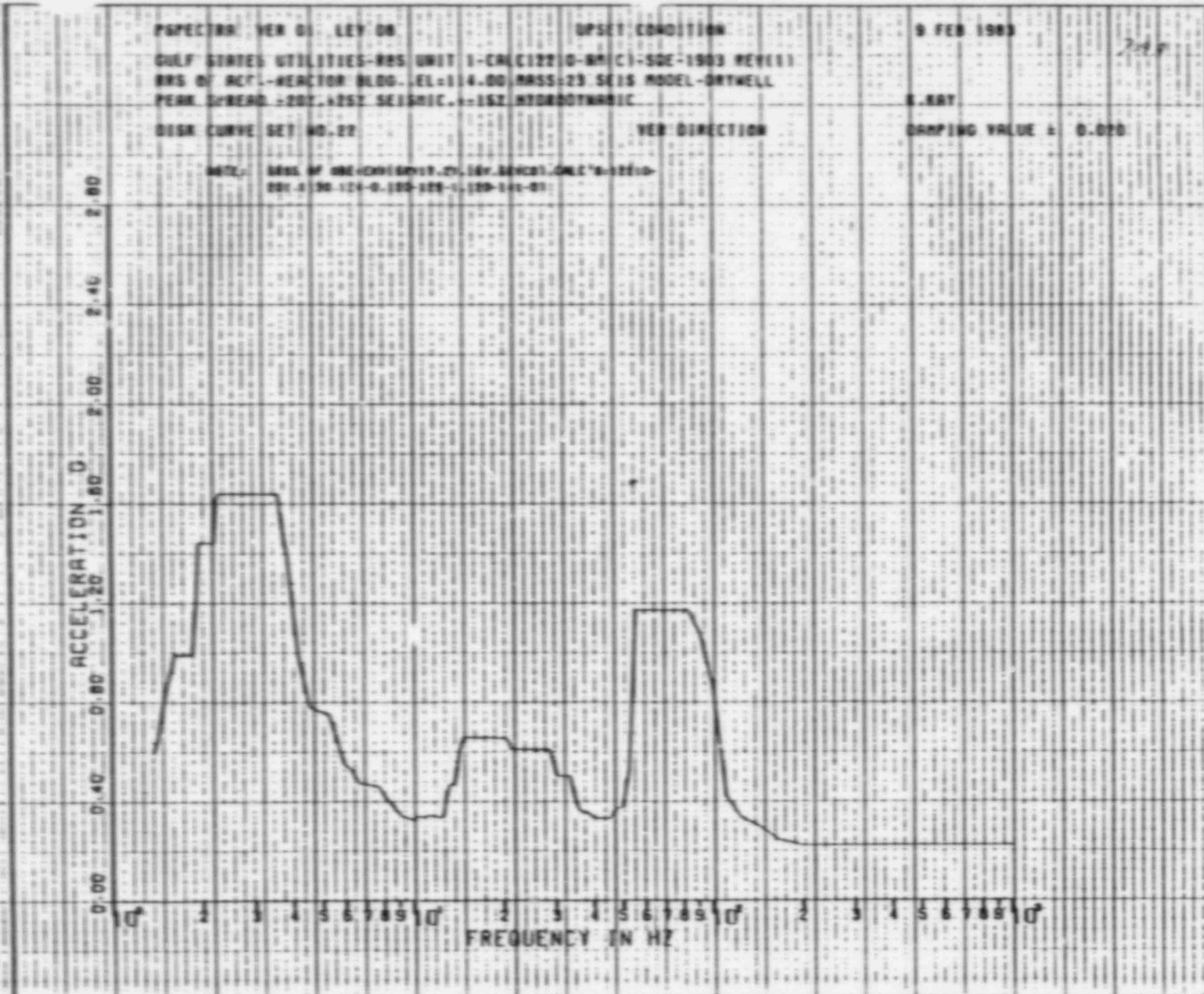
RRS OF ACC.-REACTOR BLDG.-EL=114.00,MASS=23 SEIS MODEL-DRYWELL

PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC Y_ART

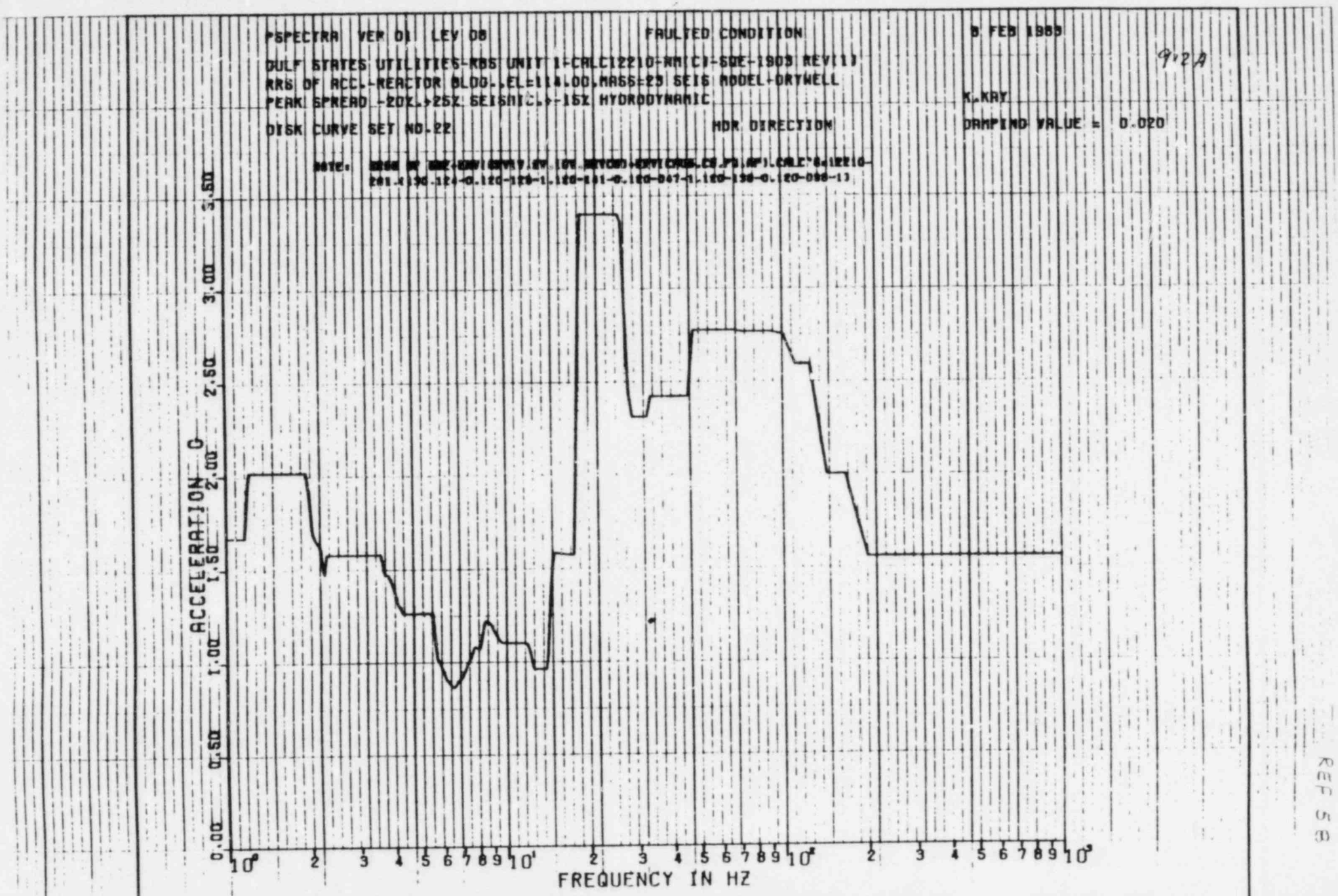
DISK CURVE SET NO.22 HOR DIRECTION DAMPING VALUE = 0.020

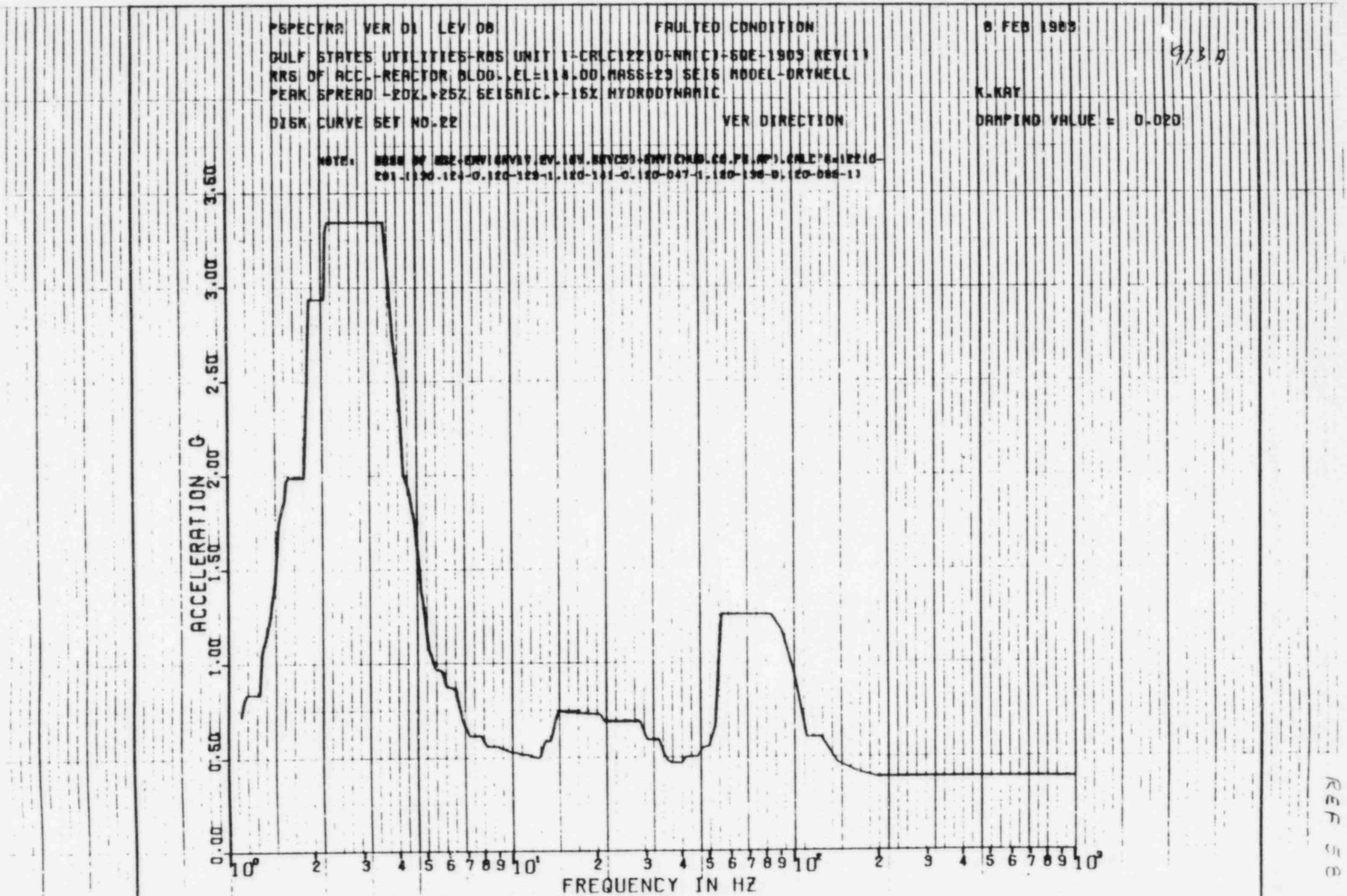
NOTE: [illegible]

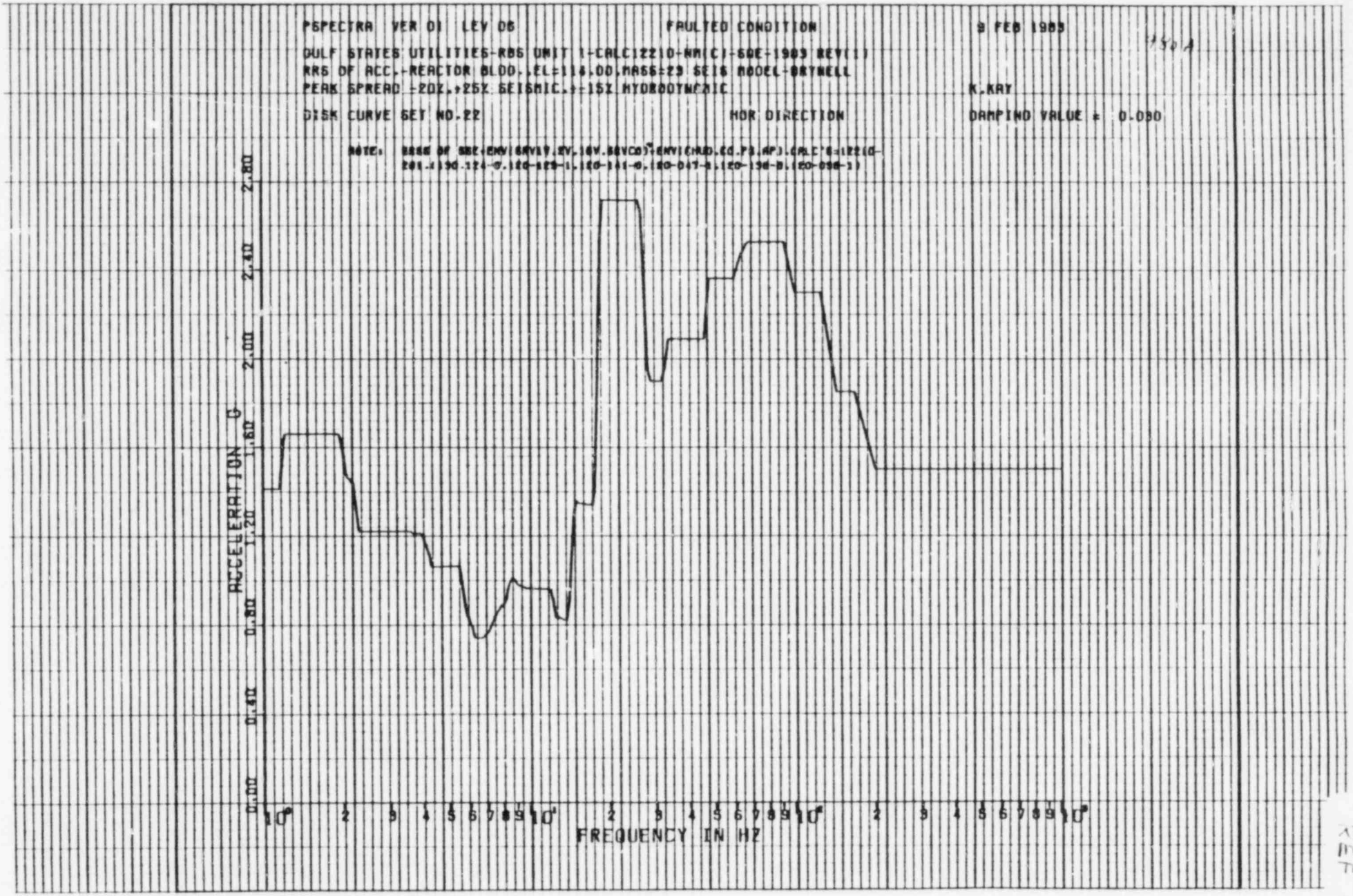


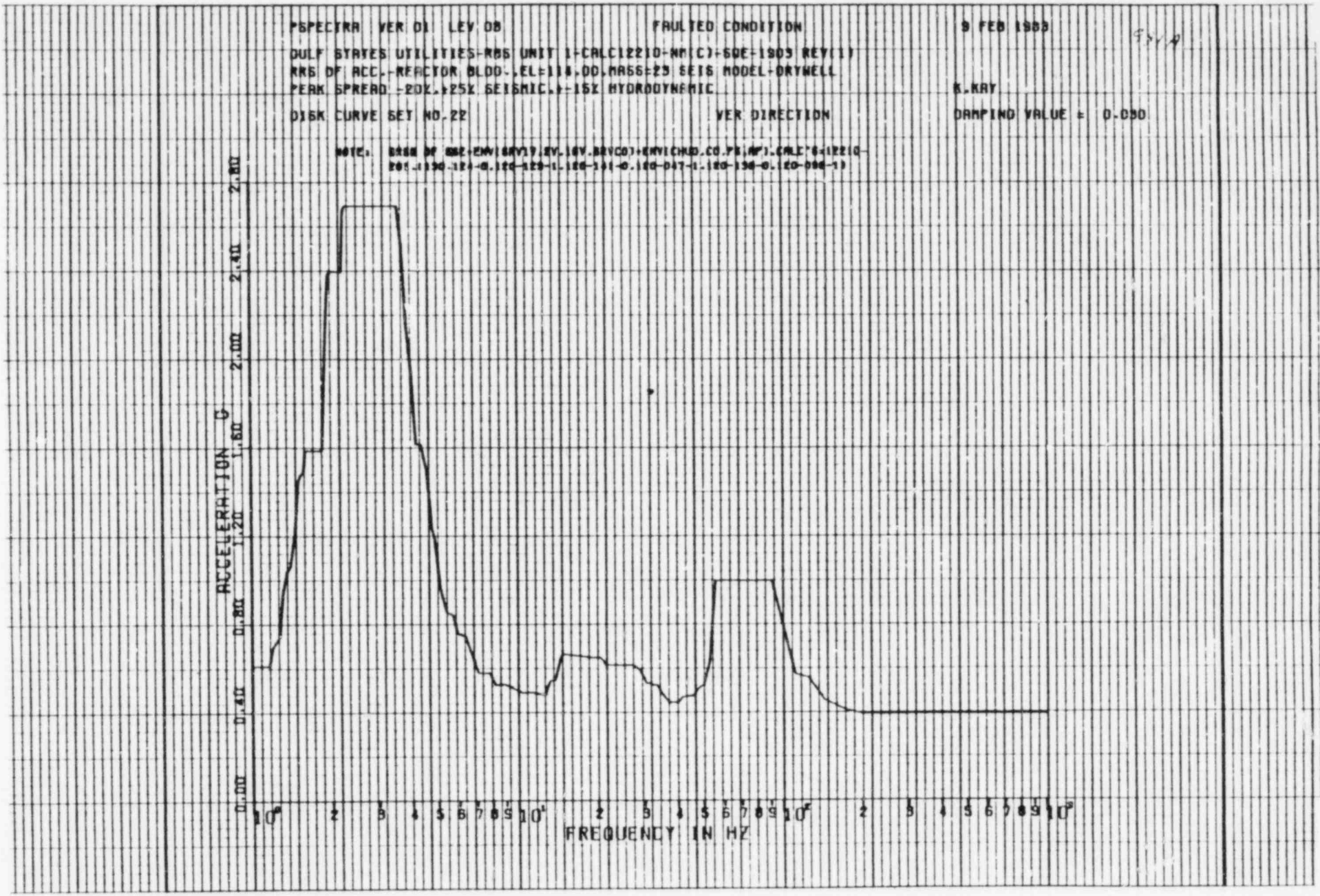

UPSET CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1
BRS OF RCT.-REACTOR BLDG.
SEIS MODEL-DRYWELL
PEAK SPREAD
HYDRODYNAMIC
DISR CURVE SET NO.22
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

REF 58

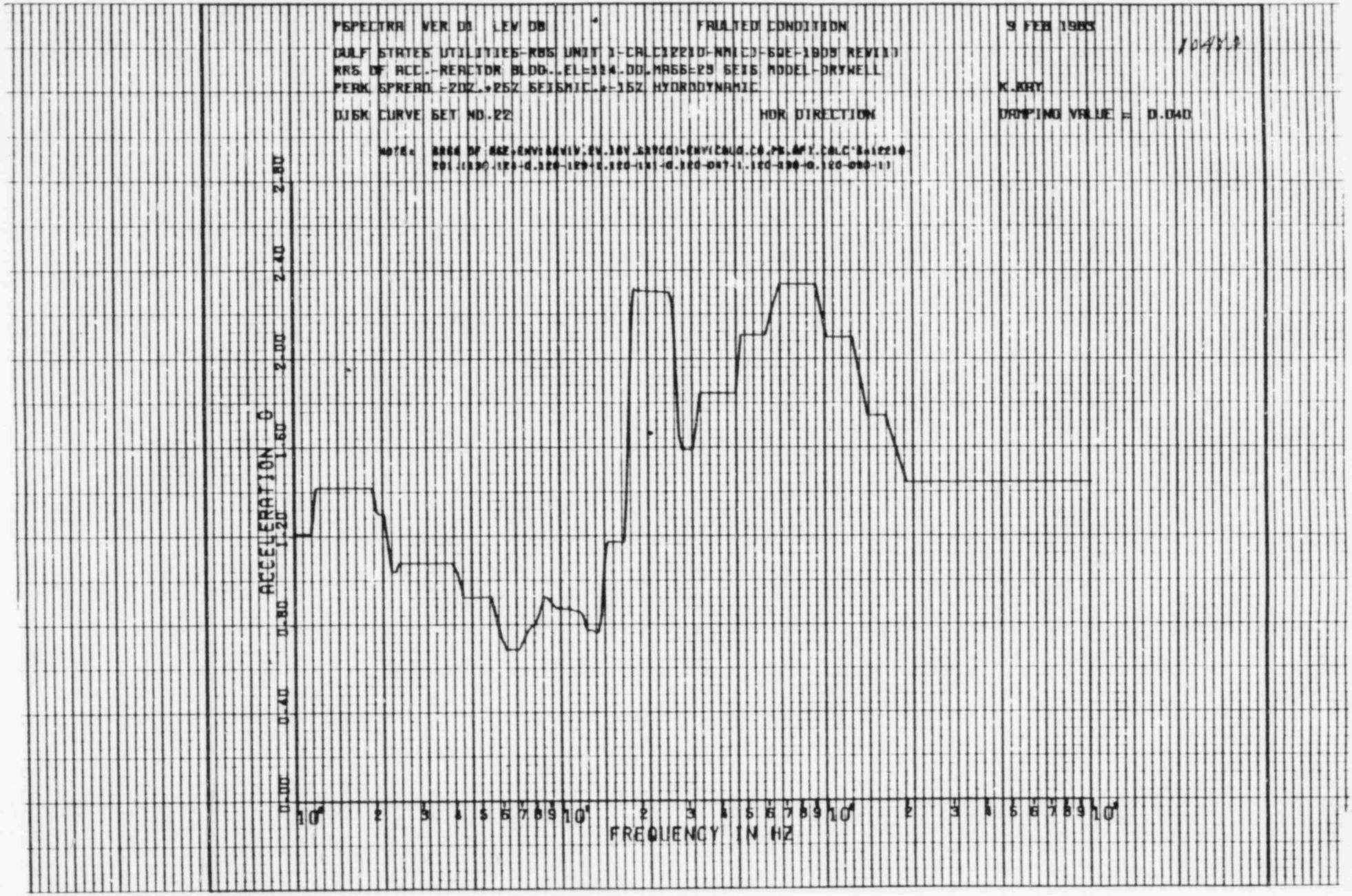

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1985
DULF STATES UTILITIES-RBS UNIT 1-CALC12210-RM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=114.00,MASS=23 SEIS MODEL-DRYWELL
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO-22
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ

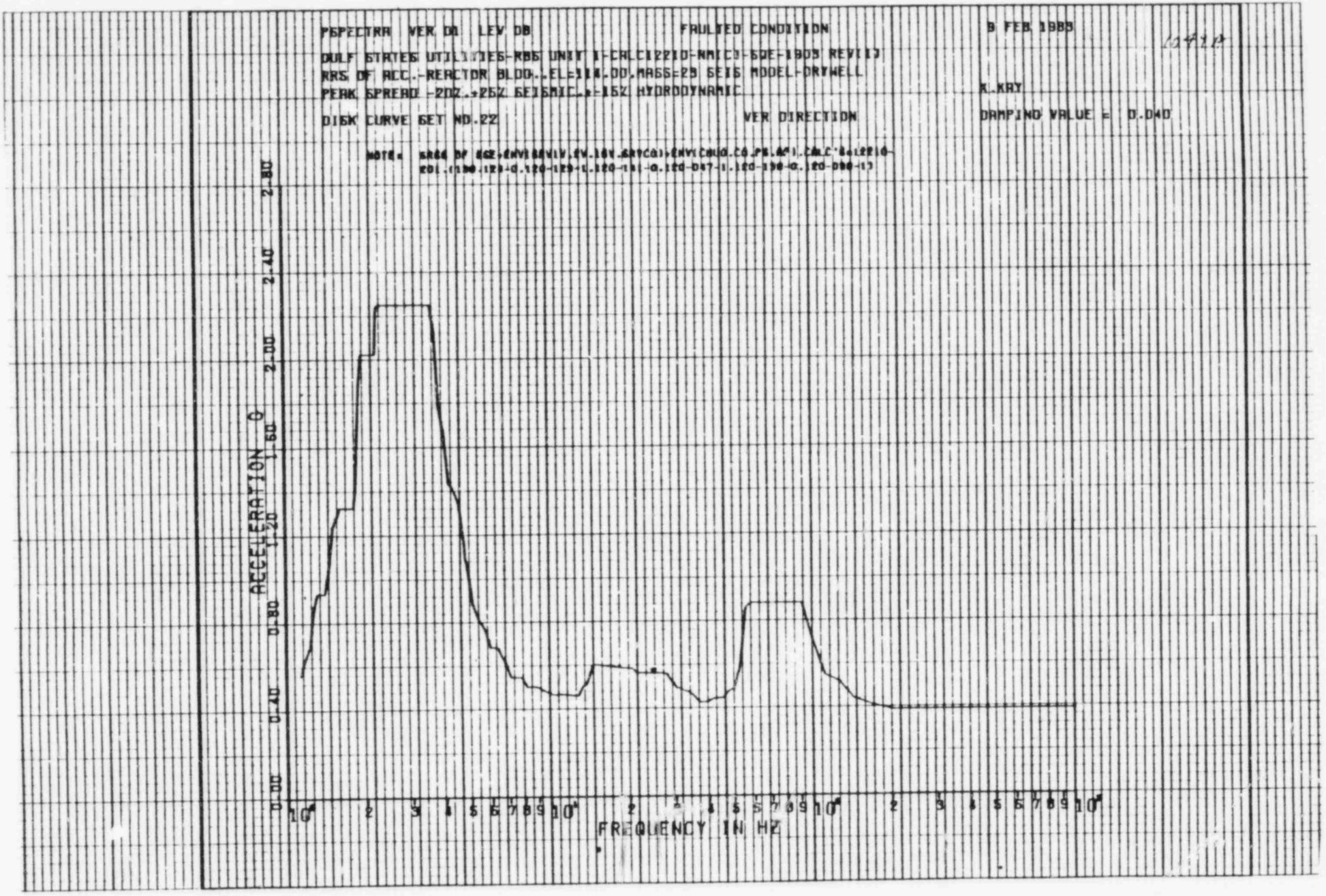

PSPECTRA VER 01 LEV 08 FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CRLC122I0+NM(C)+SQE+1983 REV(1)
RRS OF ACC.-REACTOR BLDG., EL=114.00,MASS=23 SEIS MODEL-DRYWELL
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.22 VER DIRECTION
DAMPIND VALUE = 0.020
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ


PSPECTRA VER 01 LEV 06
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-60E-1983 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=114.00,MASS=23 SEIS MODEL-DRYWELL
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.22
HOR DIRECTION
DAMPING VALUE = 0.030
NOTE: BASED ON SSE+ENV(SRV19,EV,16V.SRVCB)+ENV(CRUD.CO.P3.AP).CALC'S=12210-201.1190.124-7.120-129-1,120-141-0,120-047-3,120-136-B,120-098-1)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
10
2
3
4
5
6
7
8
9
10
FREQUENCY IN HZ

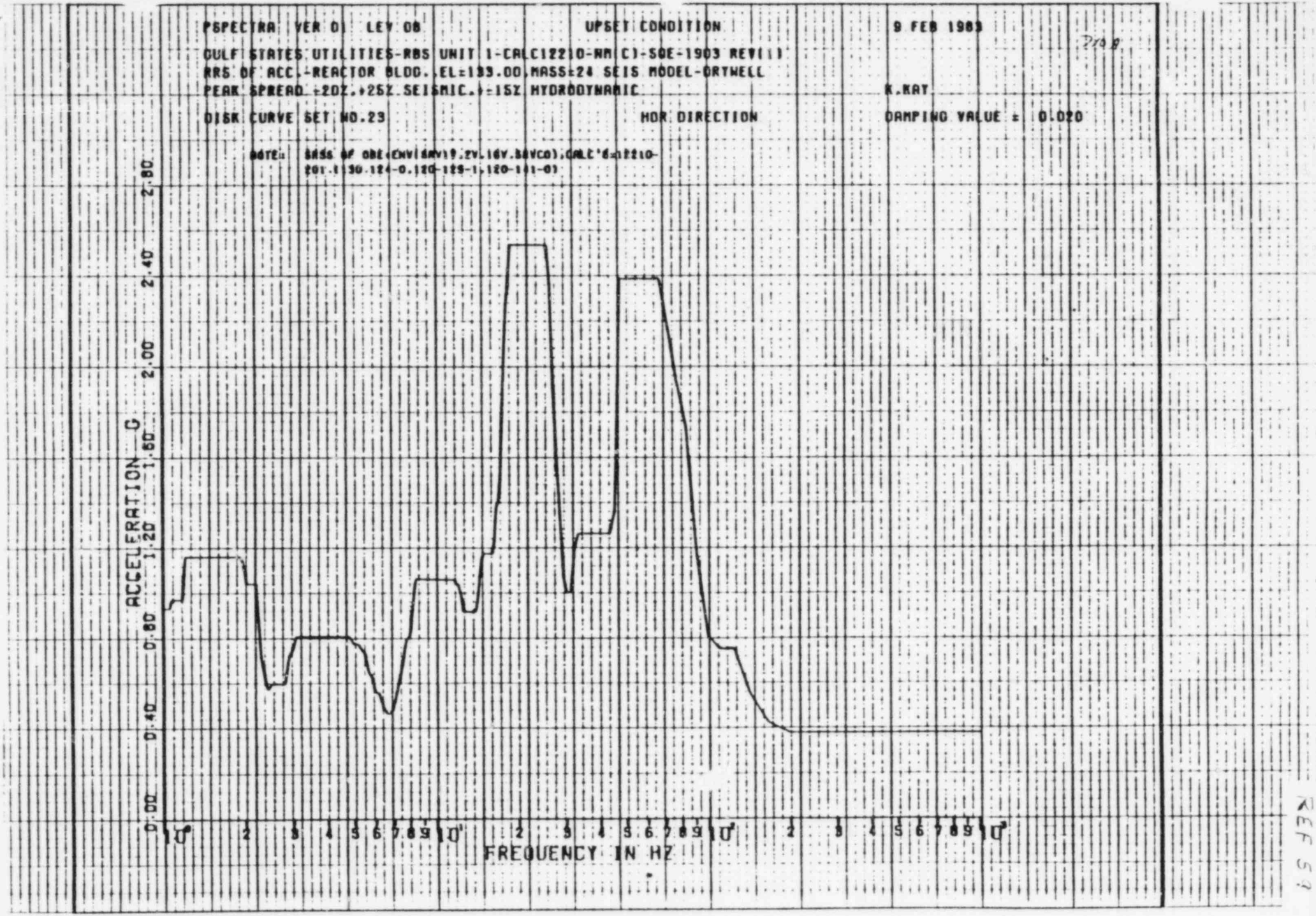

PSPECTRA VER 01 LEV 08 FAULTED CONDITION 9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NP(C)-SQE-1903 REV(1)
RBS OF ACC.-REACTOR BLDG.-EL=114.00,AZ=23 SEIS MODEL-DRYWELL
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.22 VER DIRECTION
DAMPING VALUE = 0.030
NOTE: BASE OF RBS(+ENV(SRV19,EV,16V,B2VCO)+ENVICHRD,CO,P5,NP),CALC'S=12210-
ACCELERATION G
FREQUENCY IN HZ

REF 58


SPECTRA VER DB LEV DB FAULTED CONDITION
9 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMCO-002-1003 REV1.0
RRS OF ACC.-REACTOR BLDG. EL=114.00 MASS=29 SEIS MODEL-DRYWELL
PEAK SPREAD =20% +25% SEISMIC +-15% HYDRODYNAMIC
DISK CURVE SET NO.22
HOR DIRECTION
DAMPING VALUE = 0.040
K.KRY
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ


SPECTRA VER DD LEV DB FAULTED CONDITION
8 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC3-SQE-1803 REV13
RRS OF REC.-REACTOR BLDG.-EL=114.00,MASS=23 SEIS MODEL-DRYWELL
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KRY
DISK CURVE SET NO.22
VER DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

REF 58


PSPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=133.00 MASS=24 SEIS MODEL-DRYWELL
PEAK SPREAD +20Z,+25Z SEISMIC,+-15Z HYDRODYNAMIC
K.KAT
DISK CURVE SET NO.23
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: BASS OF OBE(ENV(SRV)9.2V.16V.SRVCO),CALC'd=12210-201.1)30.124-0.120-129-1,120-141-01
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
FREQUENCY IN HZ

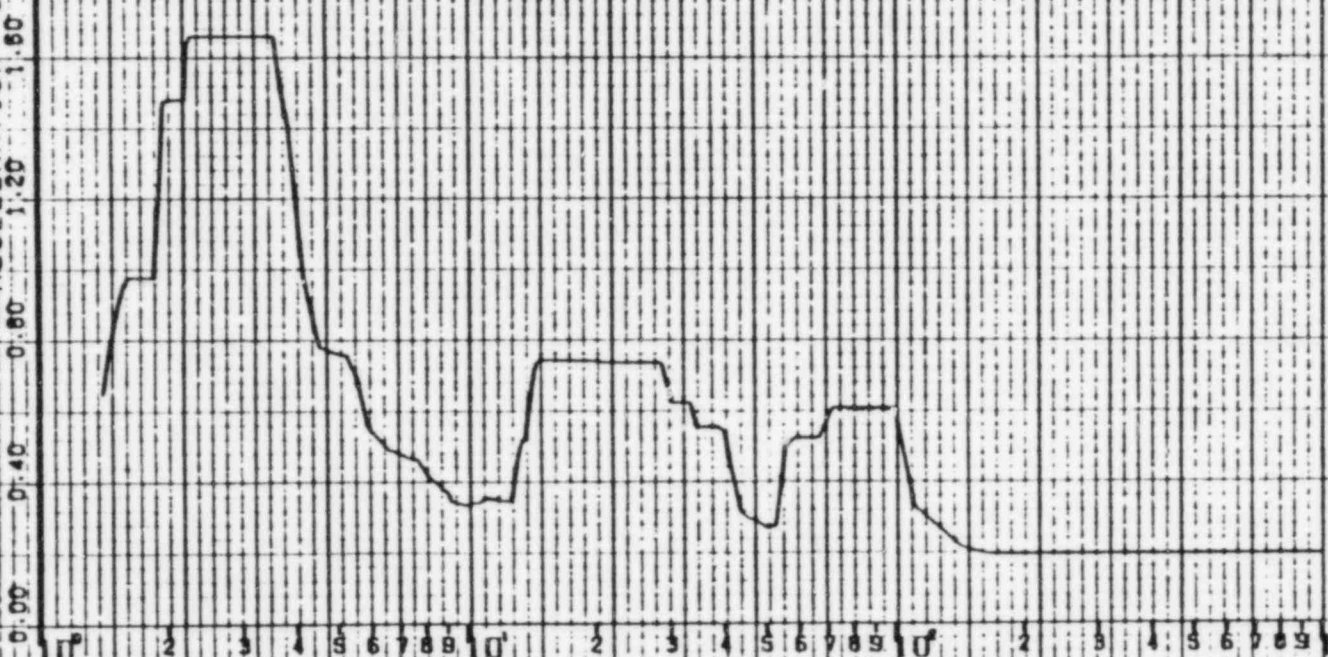
PSPECTRA VER 01 LEV 08 UPSET CONDITION 9 FEB 1983

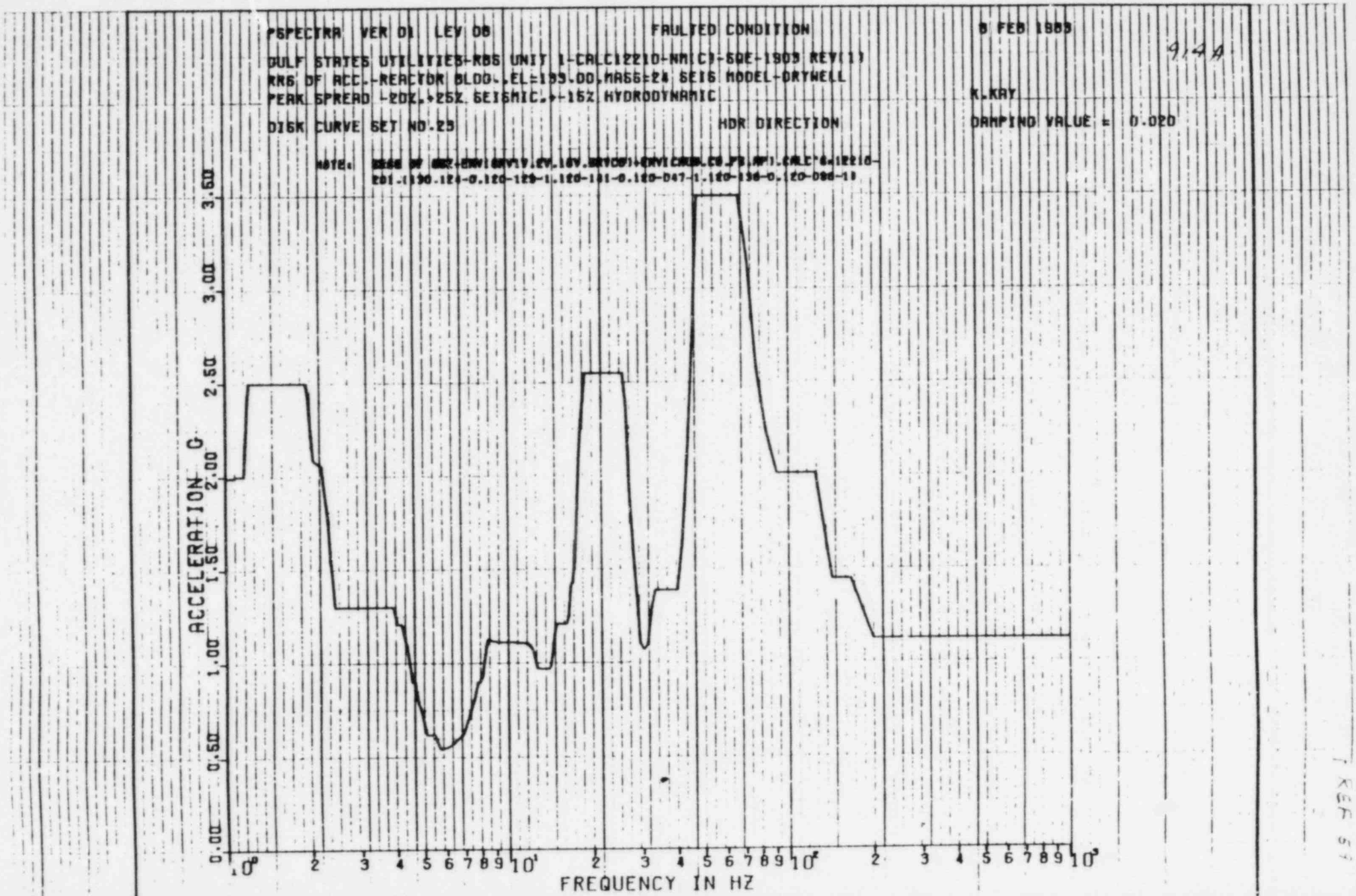
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=133.00 MASS=24 SEIS MODEL-ORTWELL
PEAK SPREAD +20Z,+25Z SEISMIC,+-15Z BROADBAND

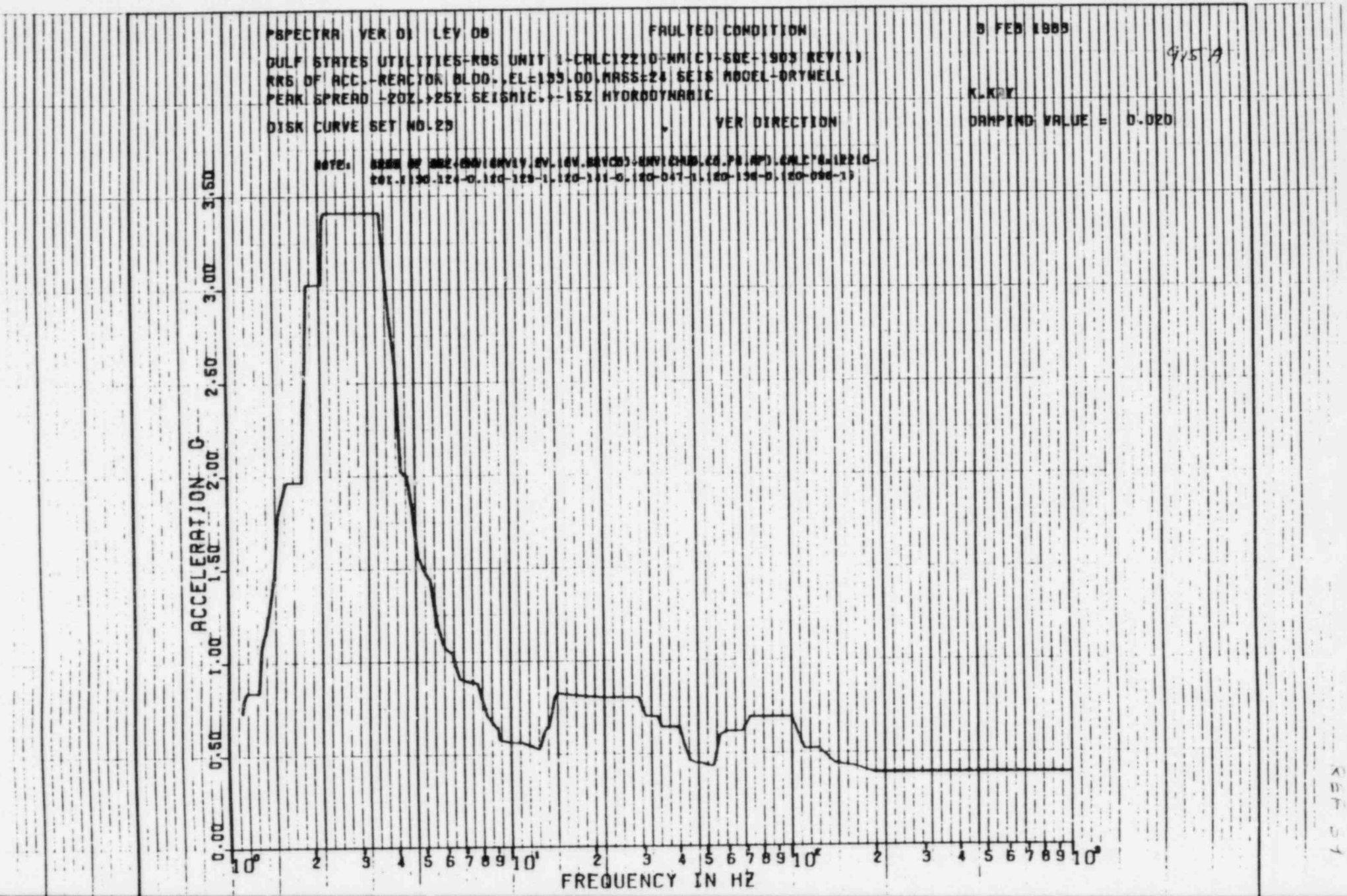
R.KAY

DISP CURVE SET NO.23 VER DIRECTION DAMPING VALUE = 0.020

NOTE: BASS OF OBE-ENV(SRV19.2V,18V,SRVCB).CALC'S=12210-
201.1 30.124-0,120-129-1,120-141-0)




SPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1985
9.4A
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-SQE-1903 REV(1)
RB OF ACC.-REACTOR BLDG., EL=135.00, MASS=24 SEIS MODEL-DRYWELL
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.25
HDR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ


RSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MA(C)-60E-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=133.00,MASS=24 SEIS MODEL-DRYWELL
PEAK SPREAD -20Z,+25Z SEISMIC,+-15Z HYDRODYNAMIC
K.K.Y
DISK CURVE SET NO.23
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ

REF 59

PSPECTRA VER 01 LEV 08 FAULTED CONDITION 8 FEB 1983

9462A

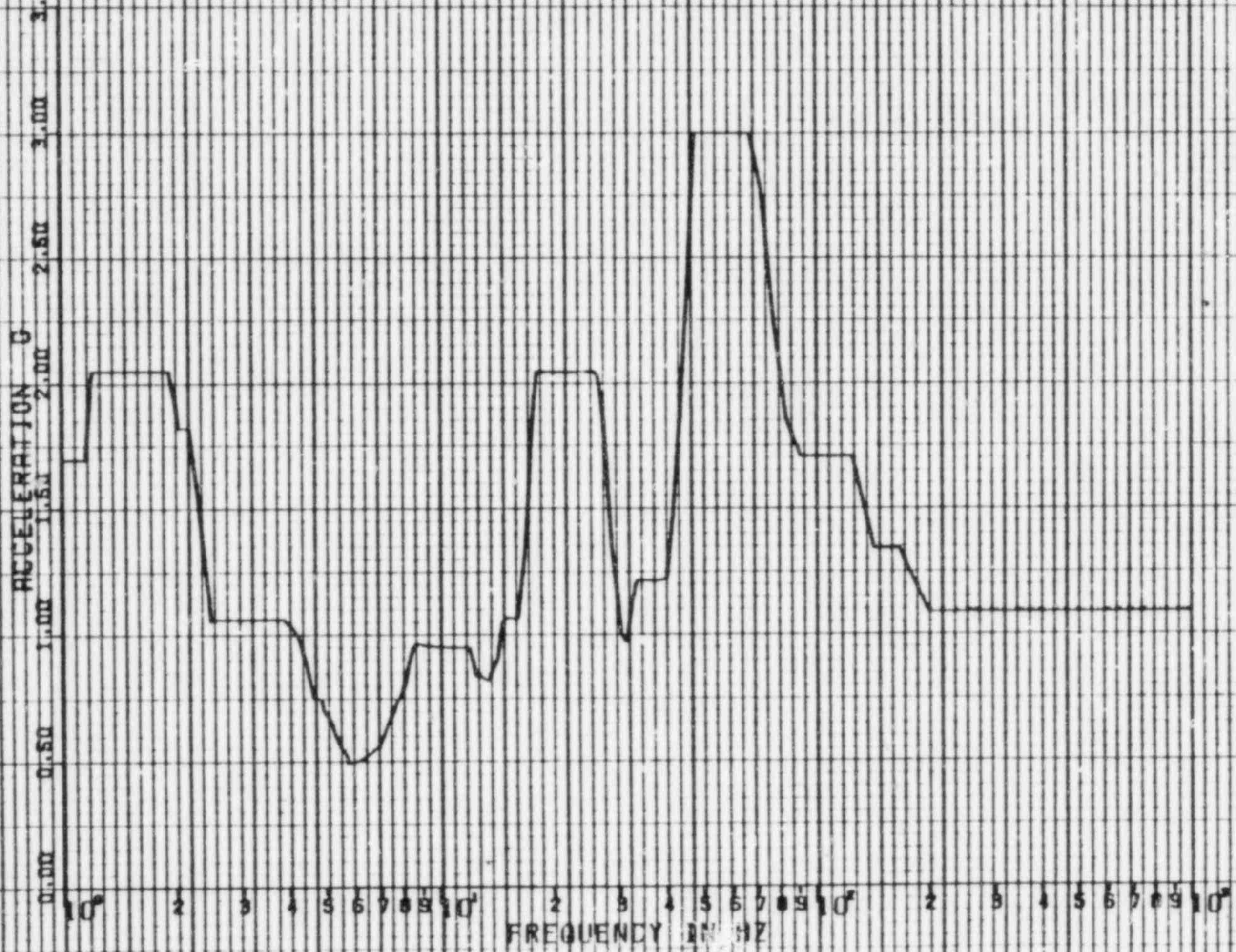
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)

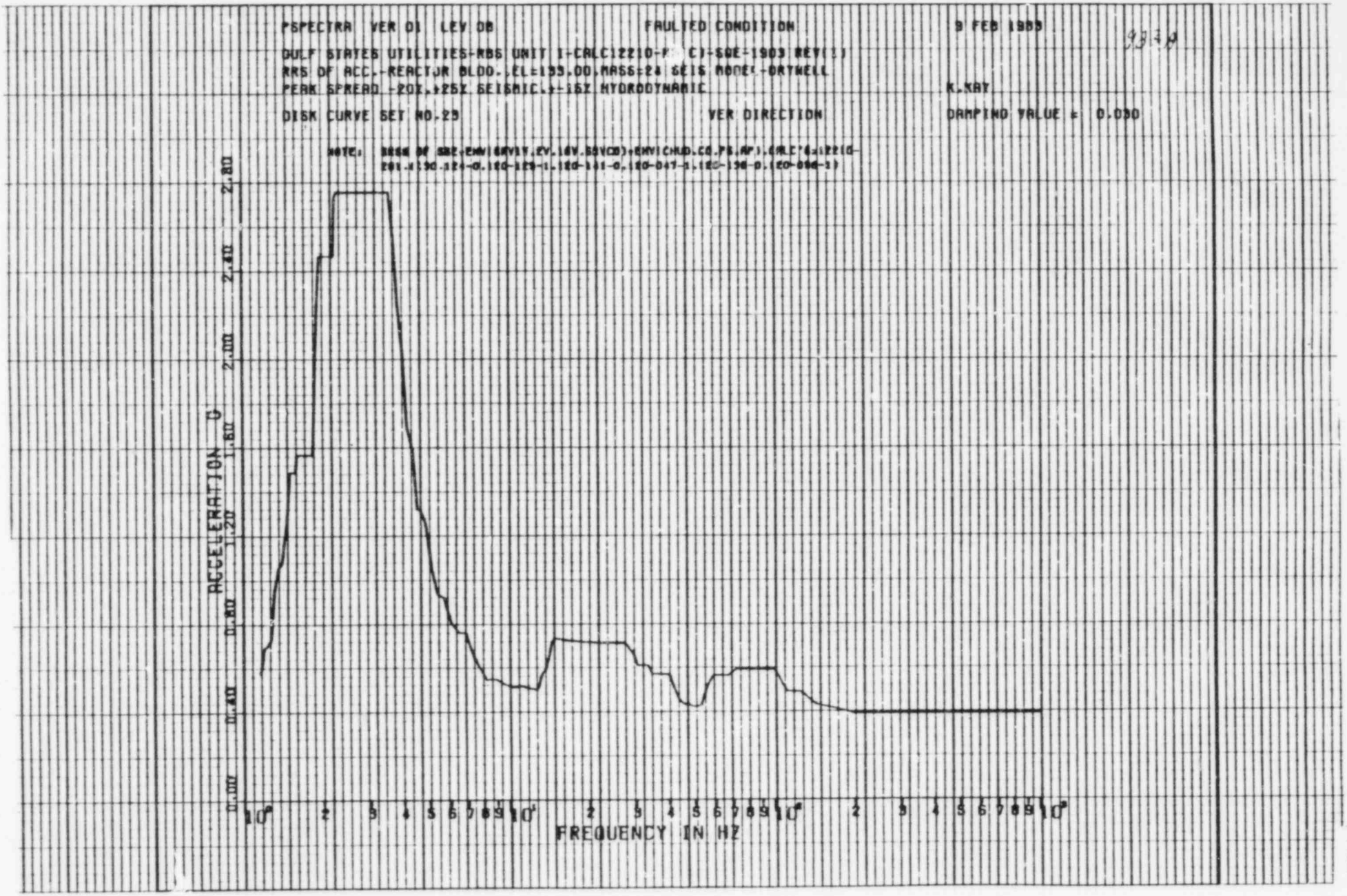
RRS OF ACC.-REACTOR BLDG.,EL=139.00,MASS=24 SEIS MODEL-DRYWELL

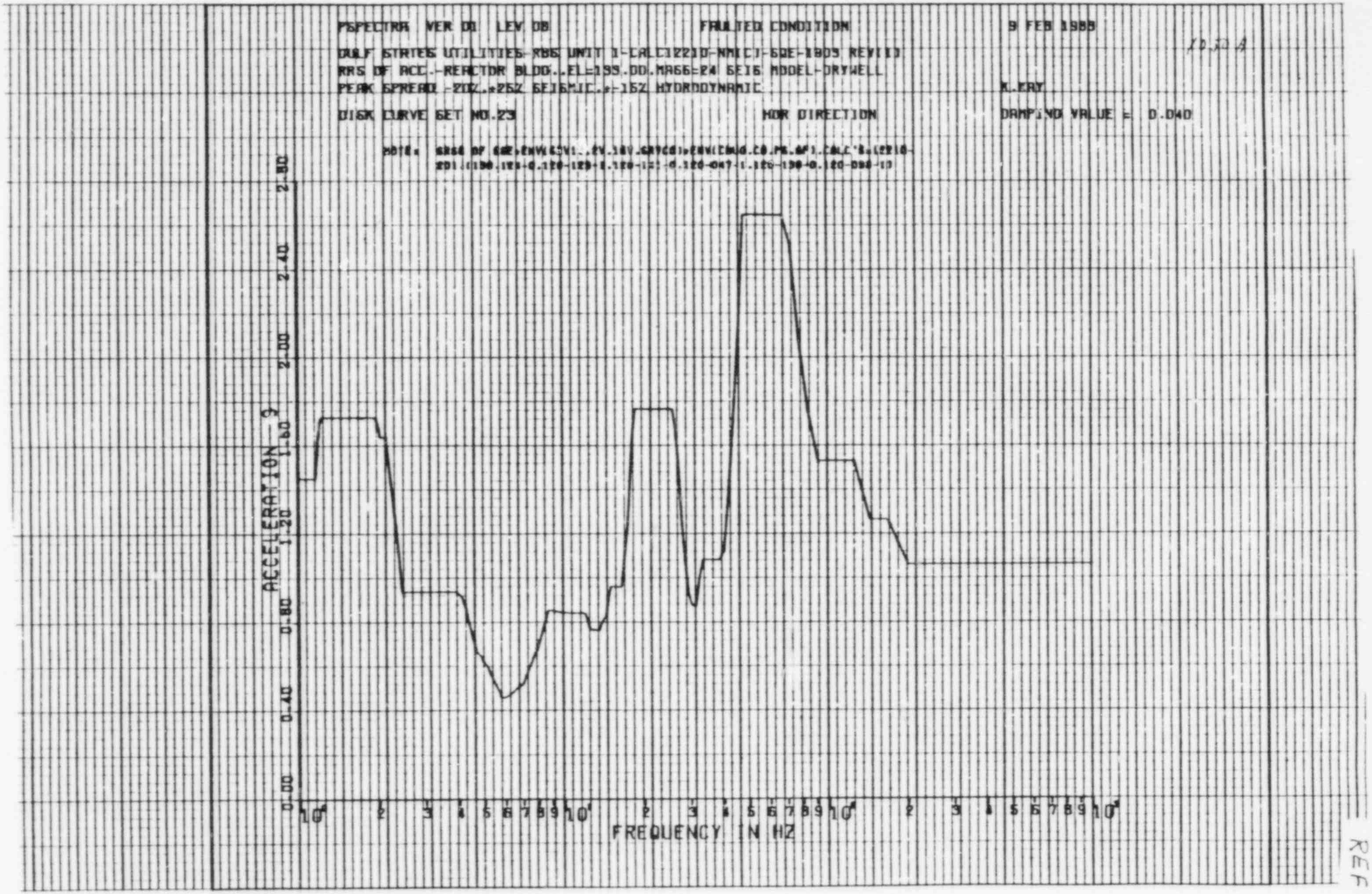
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC K.KAY

DISK CURVE SET NO.23 HOR DIRECTION DAMPING VALUE = 0.030

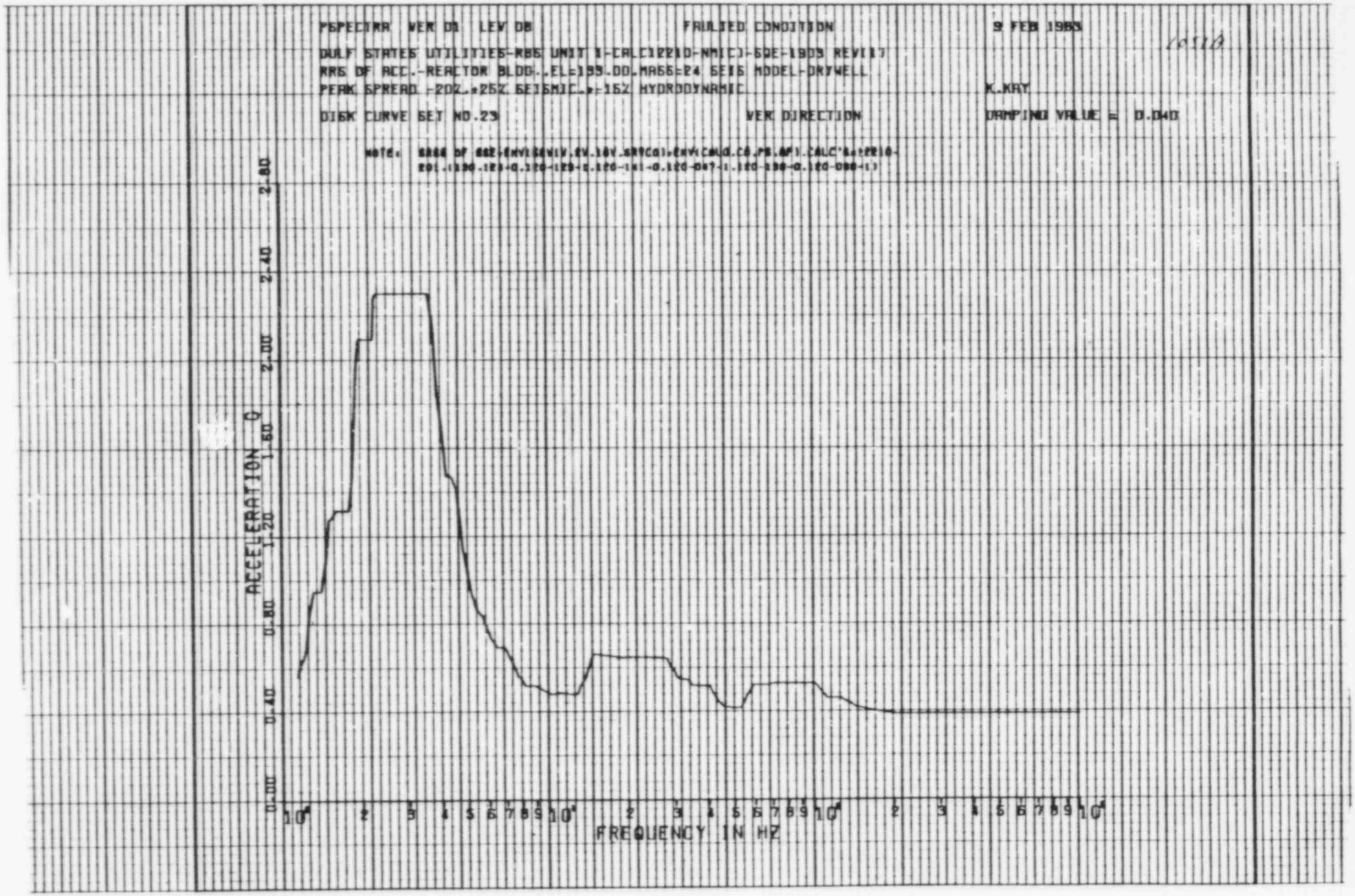
NOTE: SRSS OF SSE+ENV(SRV17,2V,18V,SRVCD)+ENV(CHUG,CO,PS,AP),CALC'S=12210-
202.1(30.124-0,120-139-1,120-141-0,120-047-1,120-138-0,120-098-1)

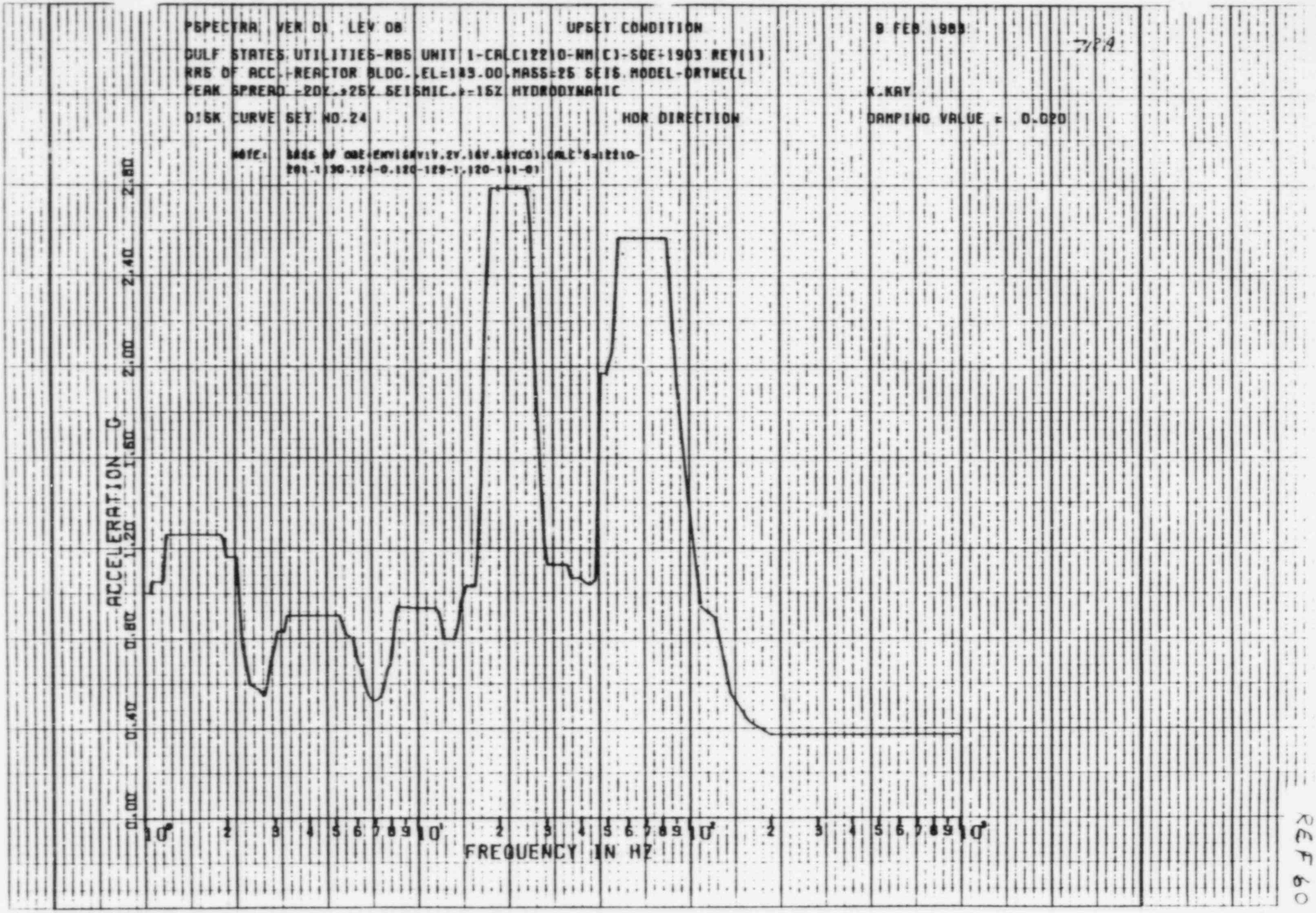



PSPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC(2210-P C)-SQE-1903 REV(1)
RBS OF ACC.-REACTOR BLDG.,EL=133.00,MASS=28 SEIS MODEL-DRYWELL
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.23
VER DIRECTION
DAMPING VALUE = 0.030
NOTE: BASED ON SSE+EHV(SRV1Y,ZV,1SV,SSVCB)+EHV(CHUD,CO,PS,AP),(SRLF'S=(2210-201.X)(90.124-0.1E0-129-1.1E0-141-0,1E0-047-1,1E0-136-0,(E0-096-1)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

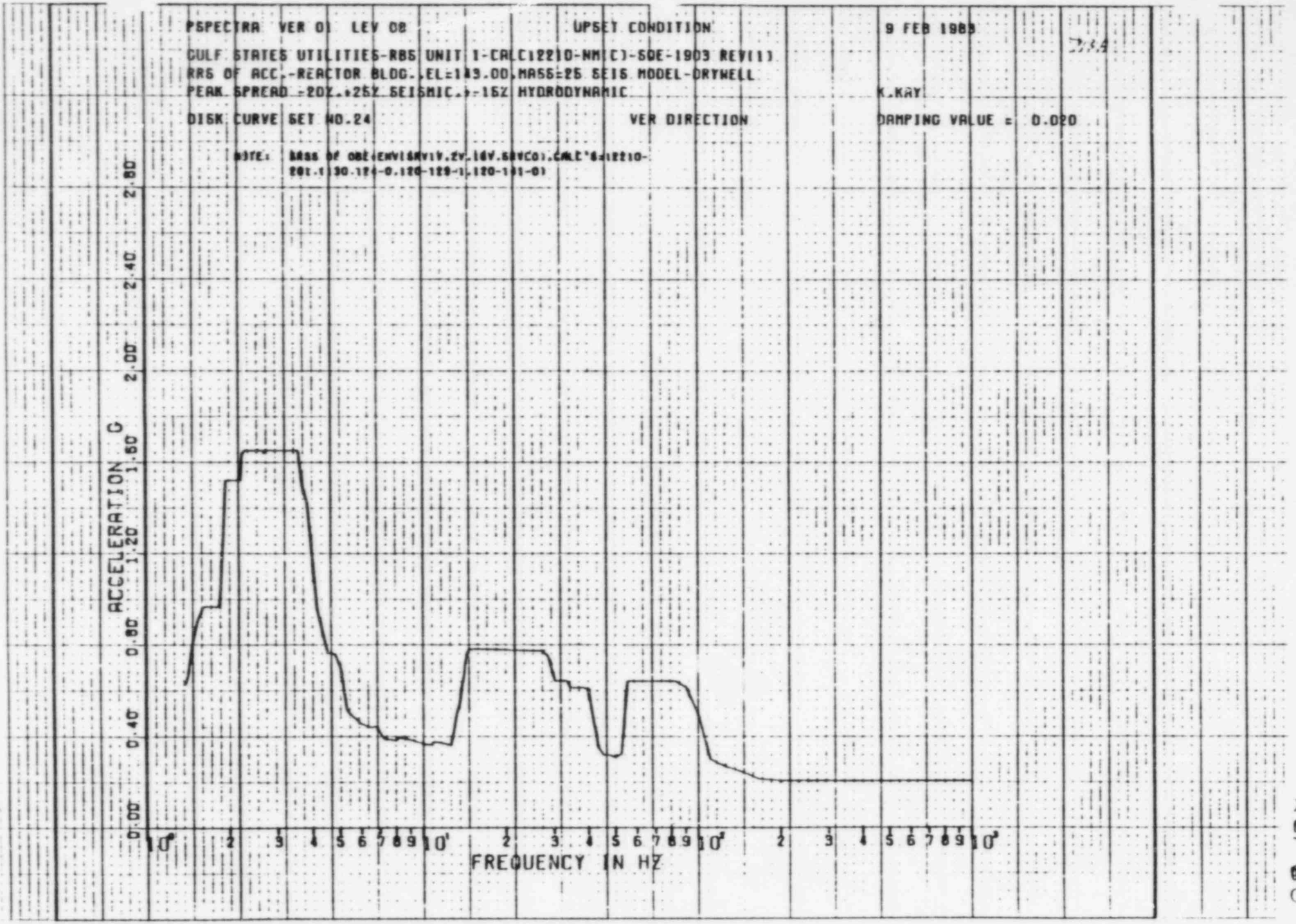

PSPECTRA VER 00 LEV 08
FAULTED CONDITION
9 FEB 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1905 REV(1)
RRS OF ACC.-REACTOR BLDG..EL=135.00.MASS=24 SEIS MODEL-DRYWELL
PEAK SPREAD -20%.+25% SEISMIC.+-15% HYDRODYNAMIC
K.FRY
DISK CURVE SET NO.23
HOR DIRECTION
DAMPING VALUE = 0.040
ACCELERATION - G
FREQUENCY IN HZ

REF 57

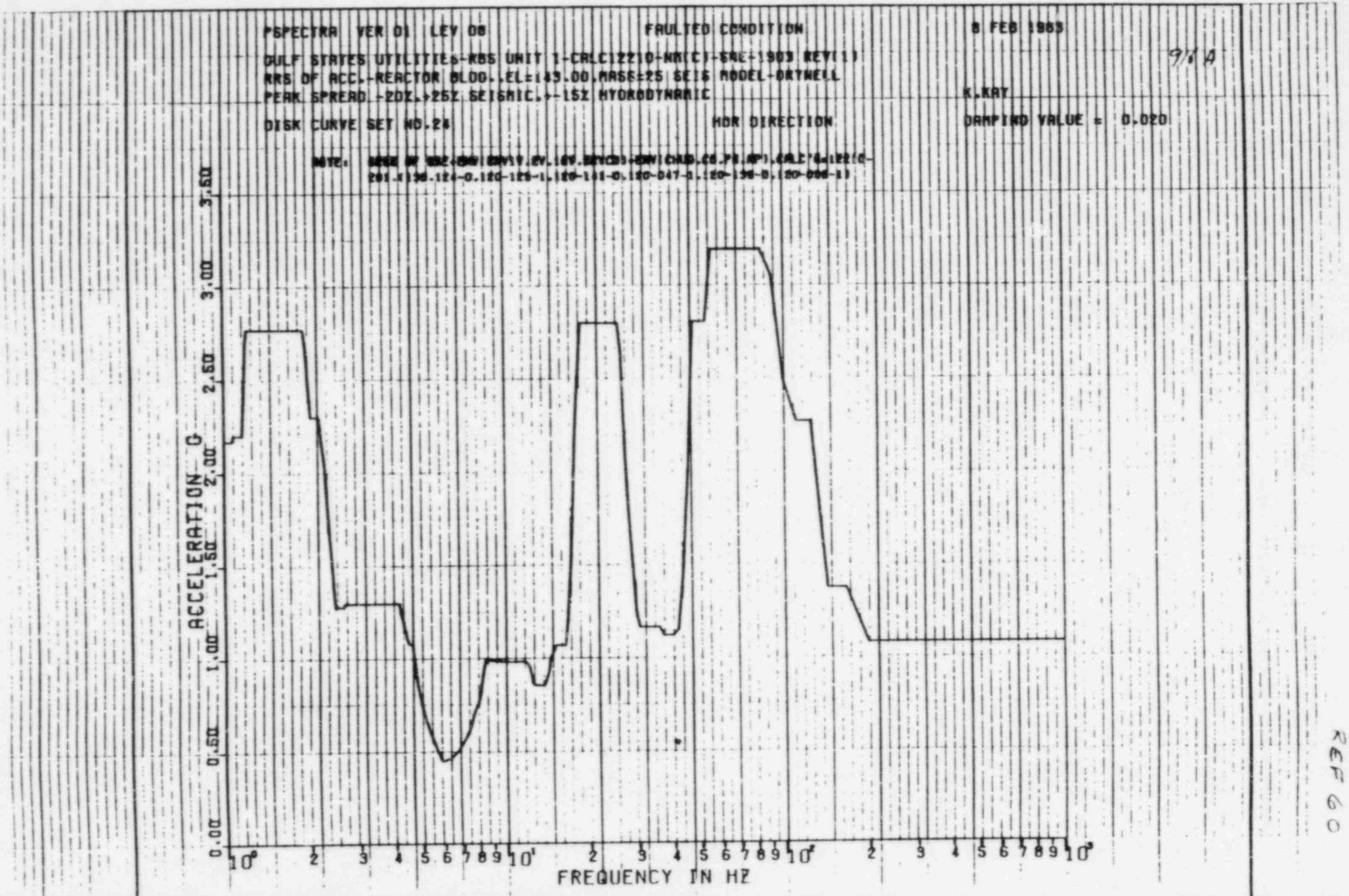

PSPECTRA VER 01 LEV 08 FAILED CONDITION 9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-SQE-1903 REV1)
RBS OF ACC.-REACTOR BLDG.,EL=135.00,AZ=24 SEIS MODEL-DRYWELL
PEAK SPREAD =20% +25% SEISMIC +-15% HYDRODYNAMIC
DISK CURVE SET NO.23 VER DIRECTION
K.KAY
DAMPING VALUE = 0.040
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

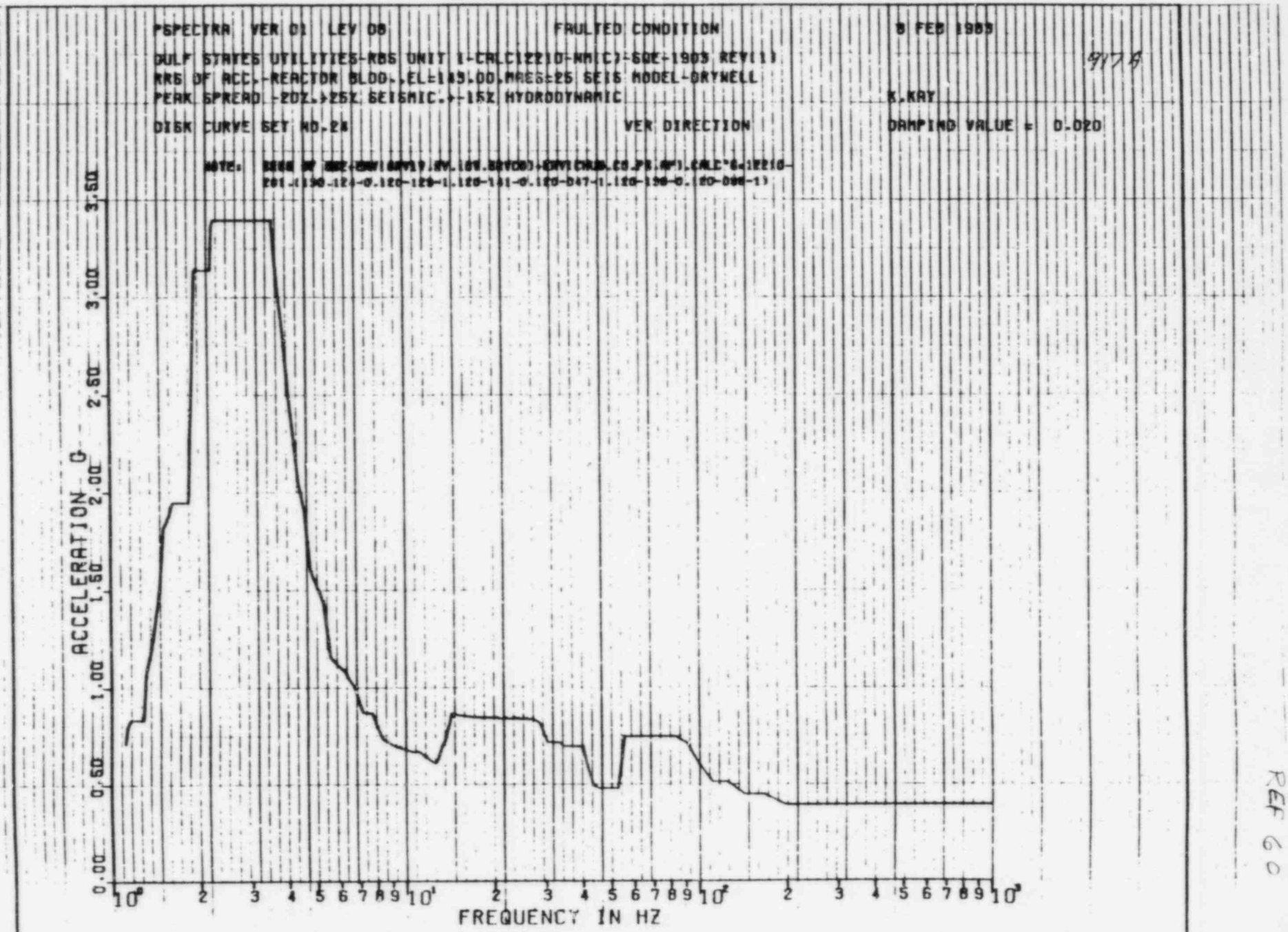

SPECTRA VER 01 LEV 08
UPSET CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=185.00,MASS=25 SEIS.MODEL-DRYWELL
PEAK SPREAD =20%,=25% SEISMIC,+=15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.24
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: BASIS OF GSE-ENV1&&V1V.2V.16V.&&YC01.CALC'&=12210-
201.1)30.124-0.120-129-1',120-101-01
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
10⁰ 2 3 4 5 6 7 8 9 10¹ 2 3 4 5 6 7 8 9 10² 2 3 4 5 6 7 8 9 10³
FREQUENCY IN HZ

REF 60


PSPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1989
GULF STATES UTILITIES-RBS UNIT 1-CALC(12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=149.00,MASS=25 SEIS MODEL-DRYWELL
PEAK SPREAD =20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.24
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: BASS OF OBE(ENV(SRV(1V,2V,16V,52VCO).CALC'S(12210-
201-(130.12(-0.12G-12S-1.12G-1S1-01)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
FREQUENCY IN HZ

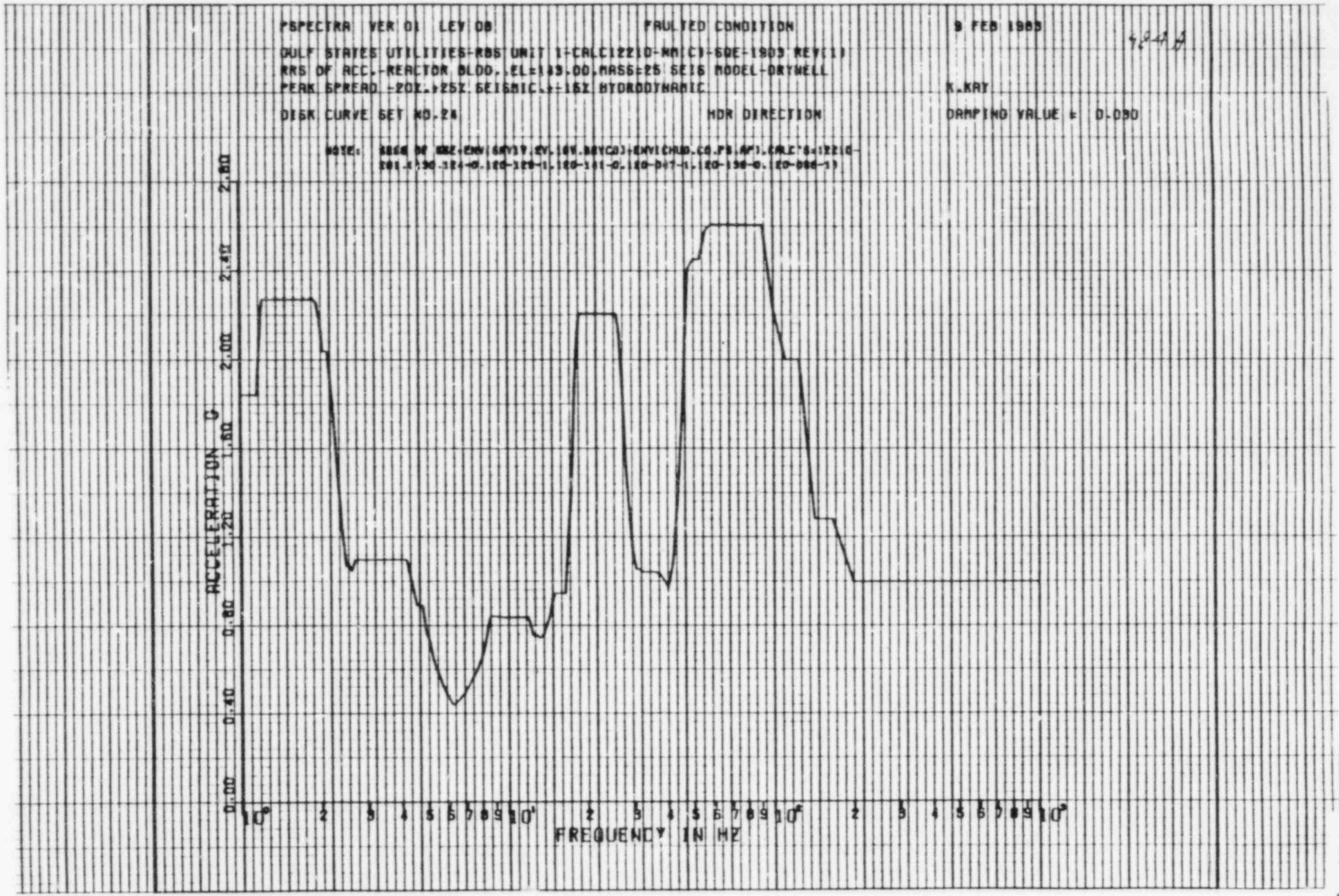
REF 60


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NR(C)-SAE-1983 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=143.00,MASS=25 SEIS MODEL-DRYWELL
PEAK SPREAD -20I.+25I SEISMIC,+-15I HYDRODYNAMIC
K.KAT
DISK CURVE SET NO.28
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ

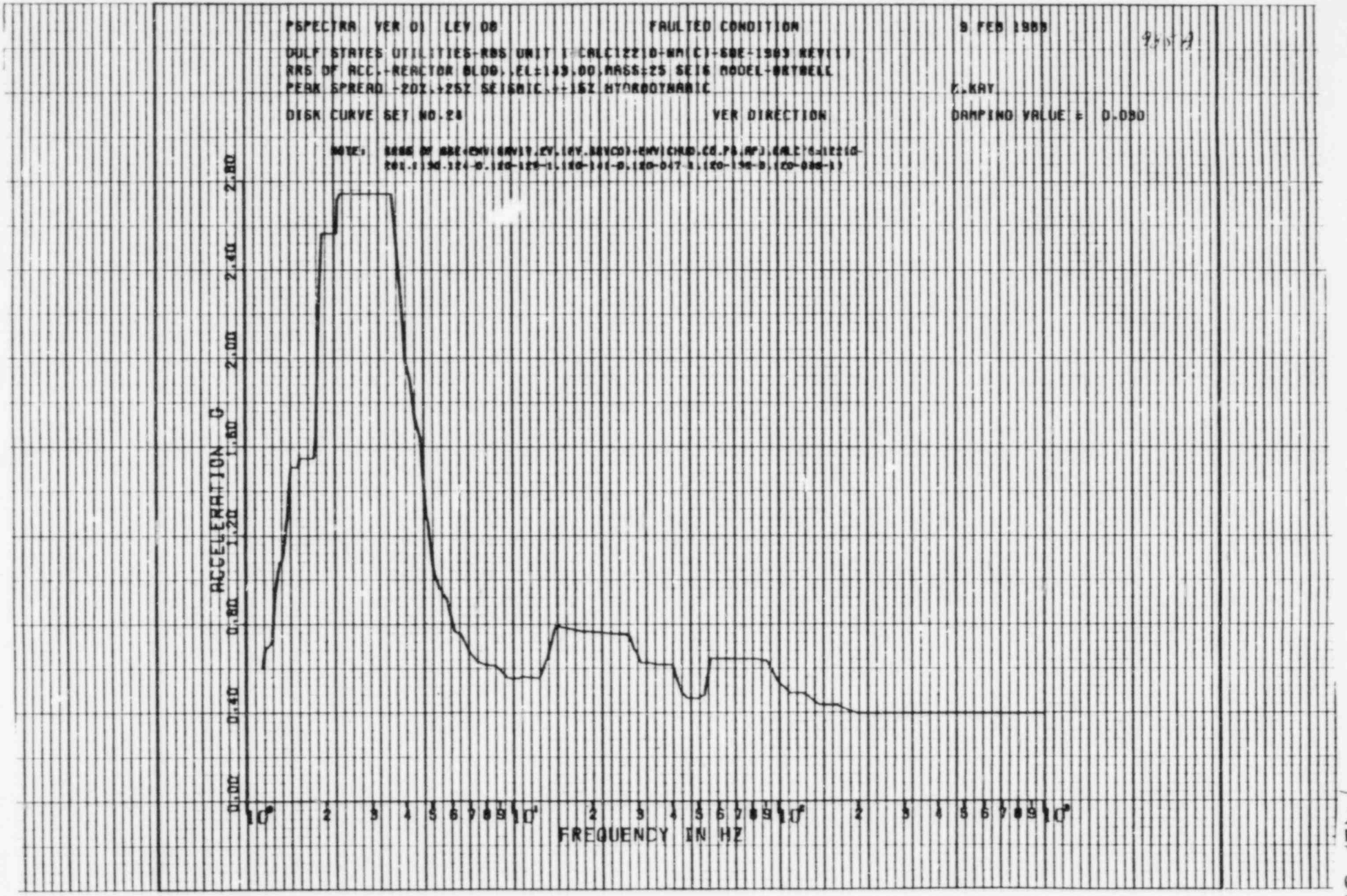

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=143.00,MRES=25 SEIS MODEL-DRYWELL
PEAK SPREAD -20Z.->25Z SEISMIC.->-15Z HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.-24
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ

917 B

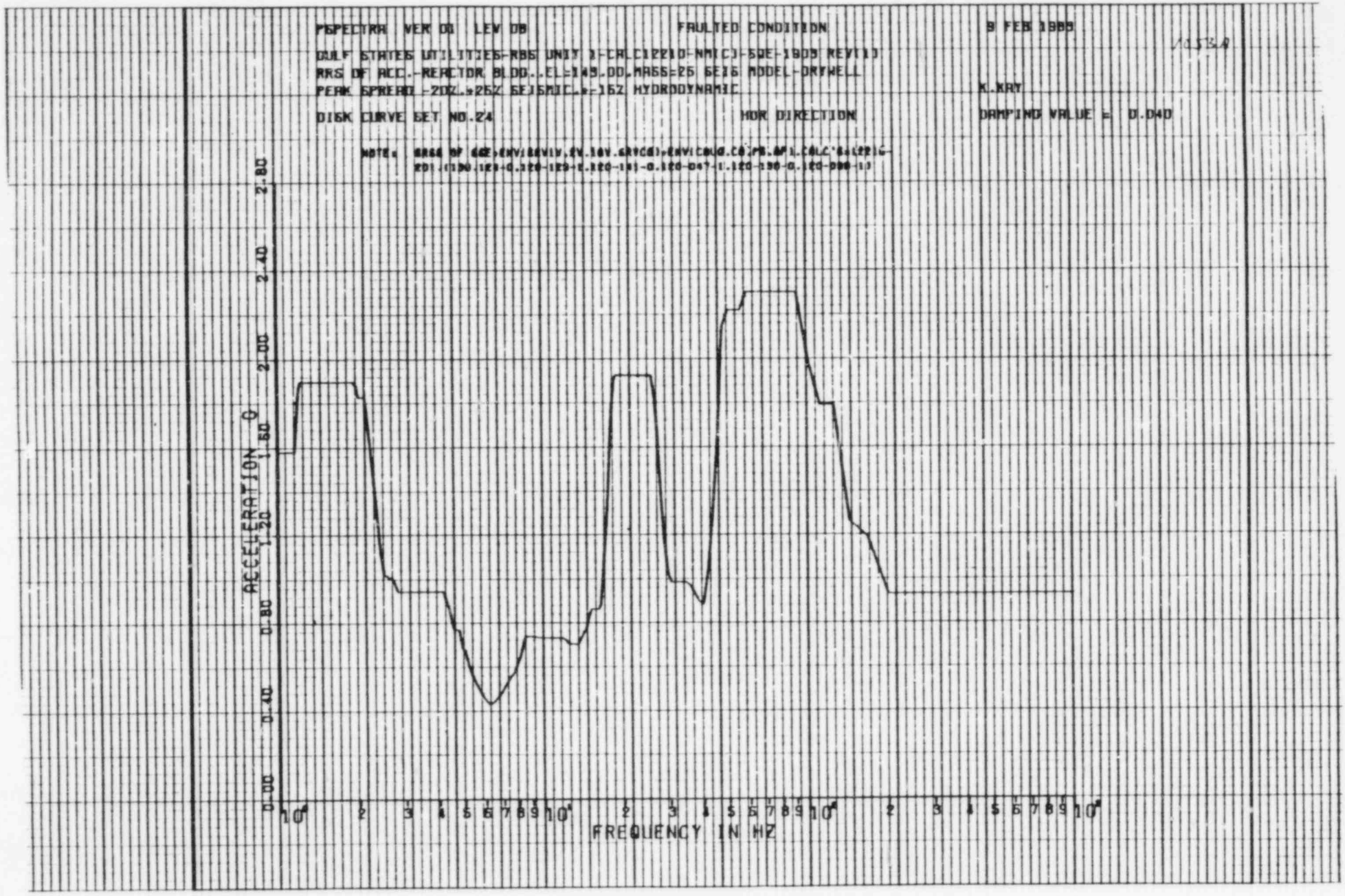
REF 60

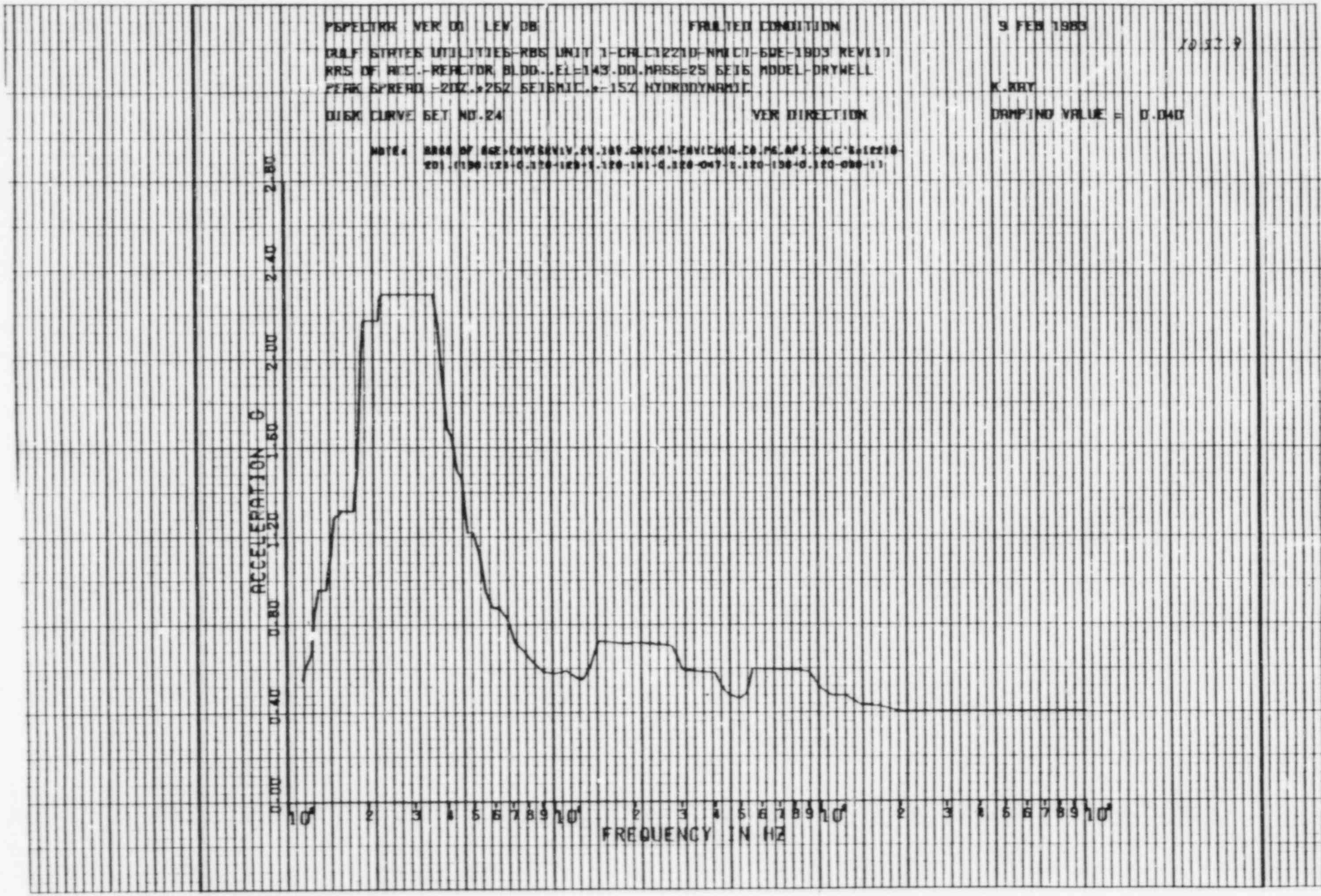

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MM(C)-GDE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=143.00 MASS=25 SEIS MODEL-DRYWELL
PEAK SPREAD -20%,+25% SEISMIC,+-16% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.24
HDR DIRECTION
DAMPING VALUE = 0.050
NOTE: RRSM OF GDE-ENV(SRV19,EV,16V,SRYCD)+ENV(CHRD,CD,PB,AP),CALC'S-12210-
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

REF 60

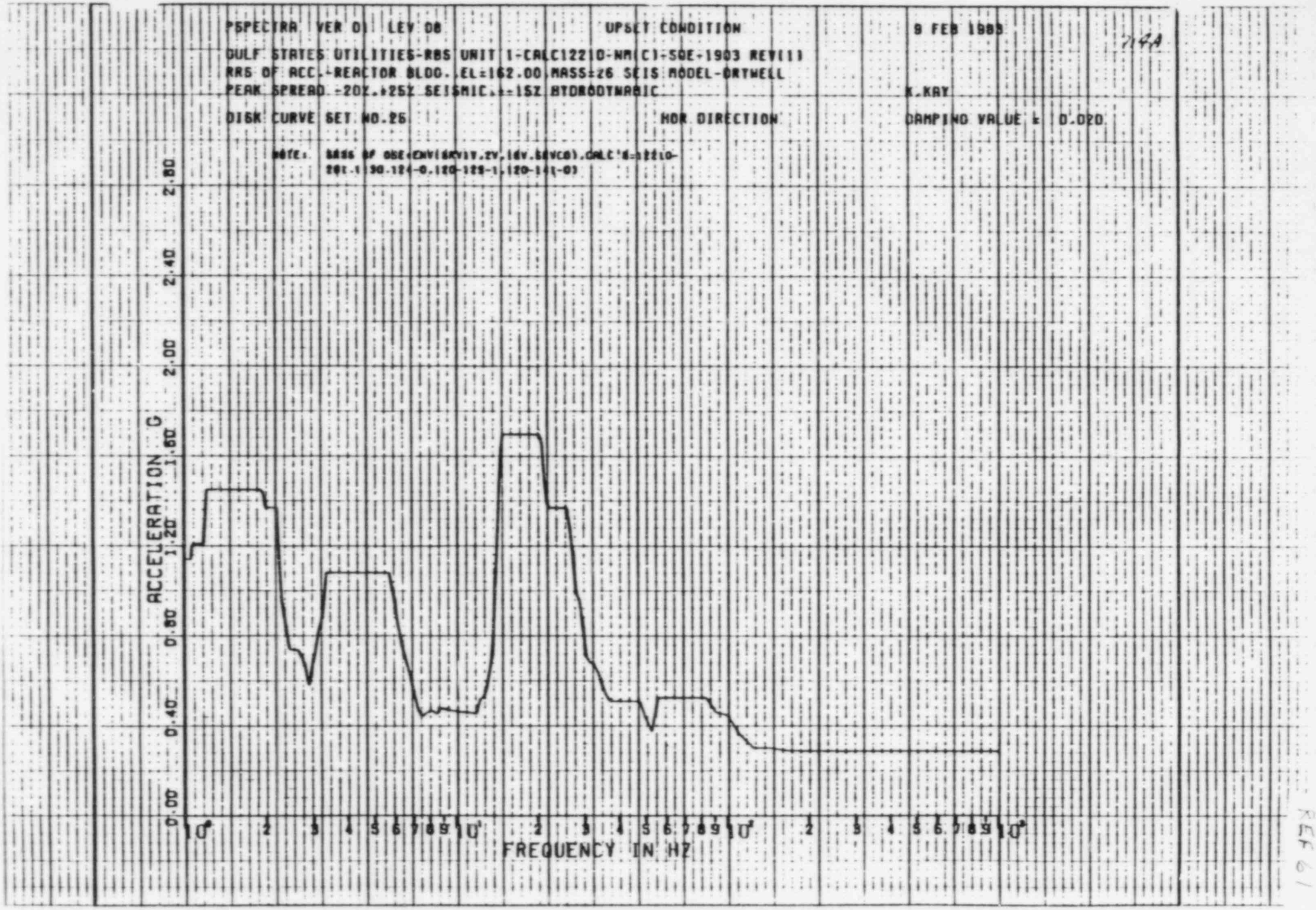

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1989
GULF STATES UTILITIES-RBS UNIT 1 CALC12210-NM(C)-GBE-1303 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=149.00,MASS=25 SEIS MODEL-ORTBELL
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
Z.KAT
DISK CURVE SET NO.28
VER DIRECTION
DAMPING VALUE = 0.050
NOTE: EQUATION OF ABSC(SMV(GRAVITY,EV,(EV.SEVCD)+SMV(CHRD,CD,PB,AFJ,CALC'S=12210-
201.1)*0.124-0.120-129-1.110-14(-0.120-047 1.(20-190-0.(20-000-1)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
FREQUENCY IN HZ

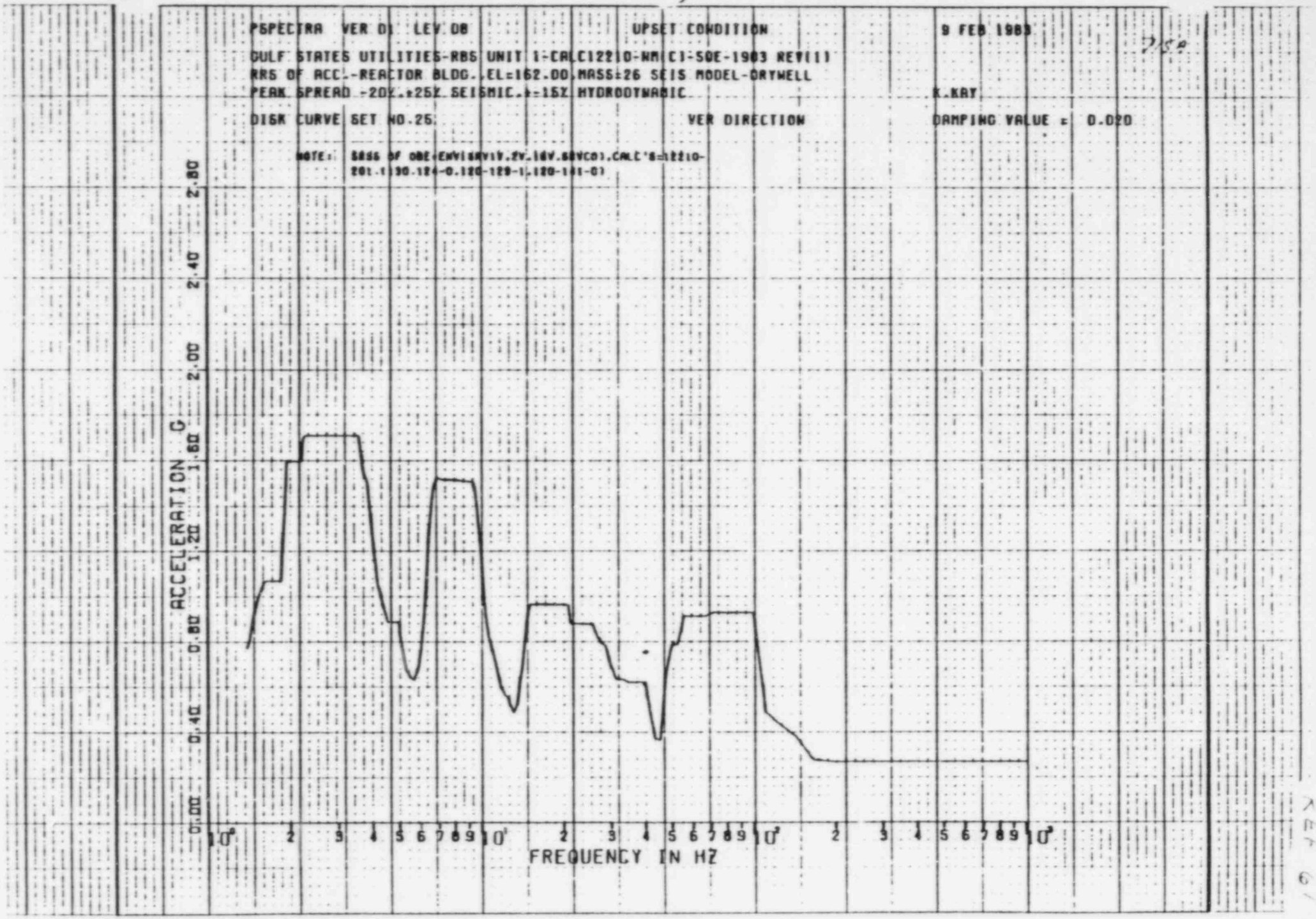
REF 60


SPECTRA VER 00 LEV 08
FAULTED CONDITION
9 FEB 1988
GULF STATES UTILITIES-RBS UNIT 2-CALC12210-DYNAMIC)-SQE-1808 REV(1)
ARS OF ACC.-REACTOR BLDG.-EL=145.00.MASS=25 SEIS MODEL-DRYWELL
PEAK SPREAD -20%..+25% SEISMIC..+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.24
HOR DIRECTION
DAMPING VALUE = 0.040
2.80
2.40
2.00
1.60
1.20
0.80
0.40
0.00
ACCELERATION G
FREQUENCY IN HZ

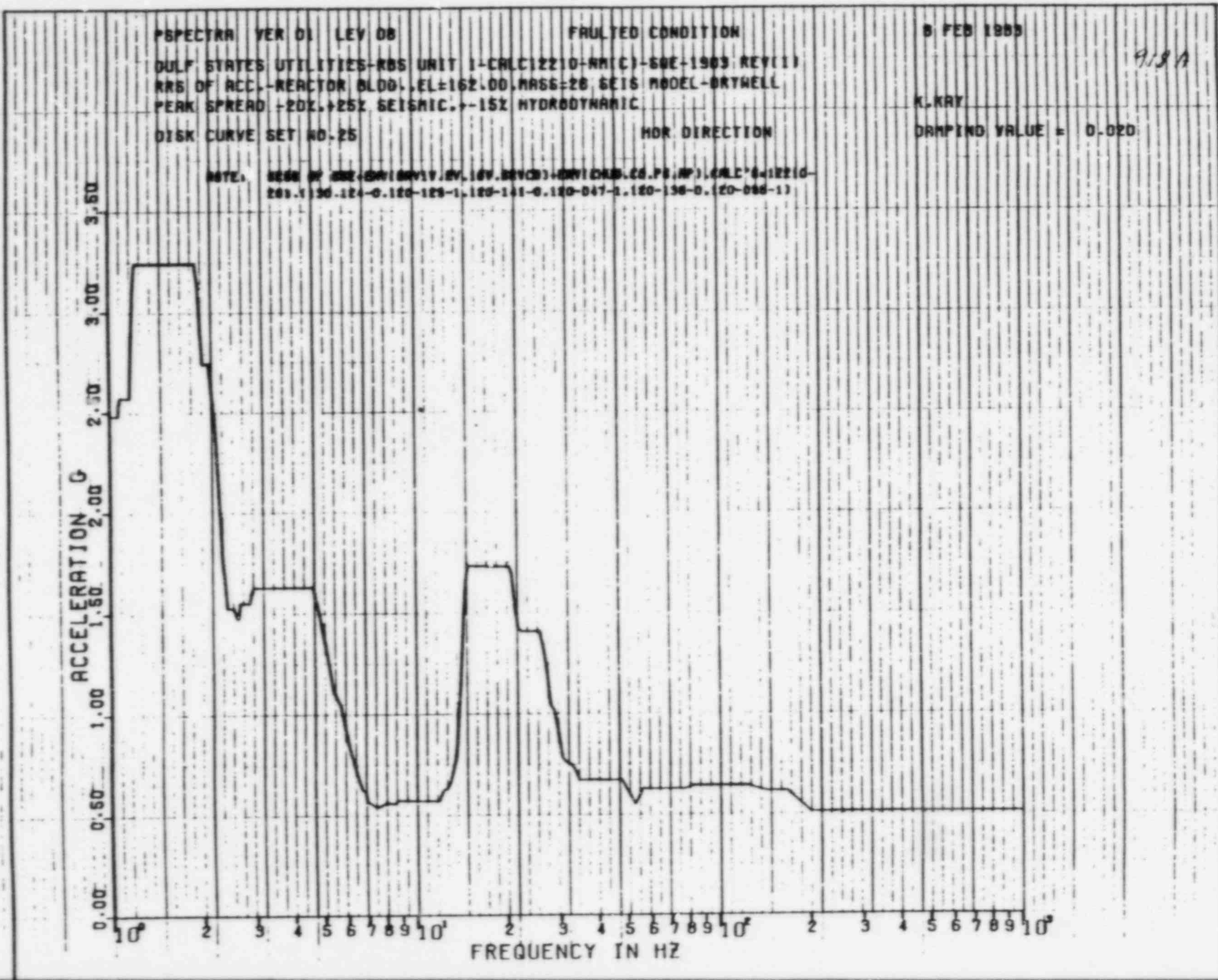

PSPECTRA VER 00 LEV 08
FAULTED CONDITION
9 FEB 1983
10.52.9
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SDE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG..EL=143.00.MASS=25 SEIS MODEL-DRYWELL
PEAK SPREAD -20%.+25% SEISMIC.+-15% HYDRODYNAMIC
K.RAY
DISK CURVE SET NO.24
VER DIRECTION
DAMPING VALUE = 0.040
NOTE:
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

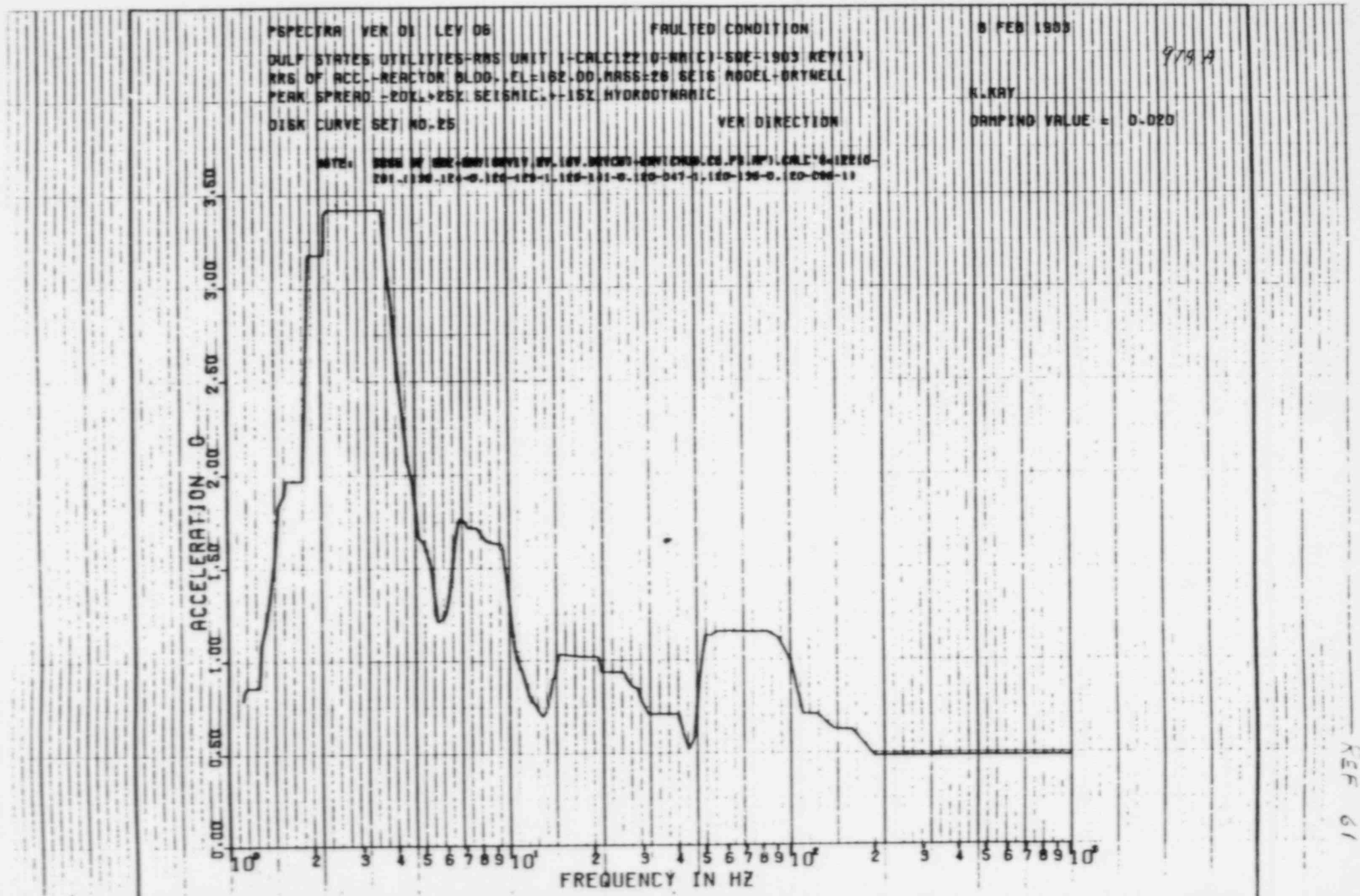
REF 60

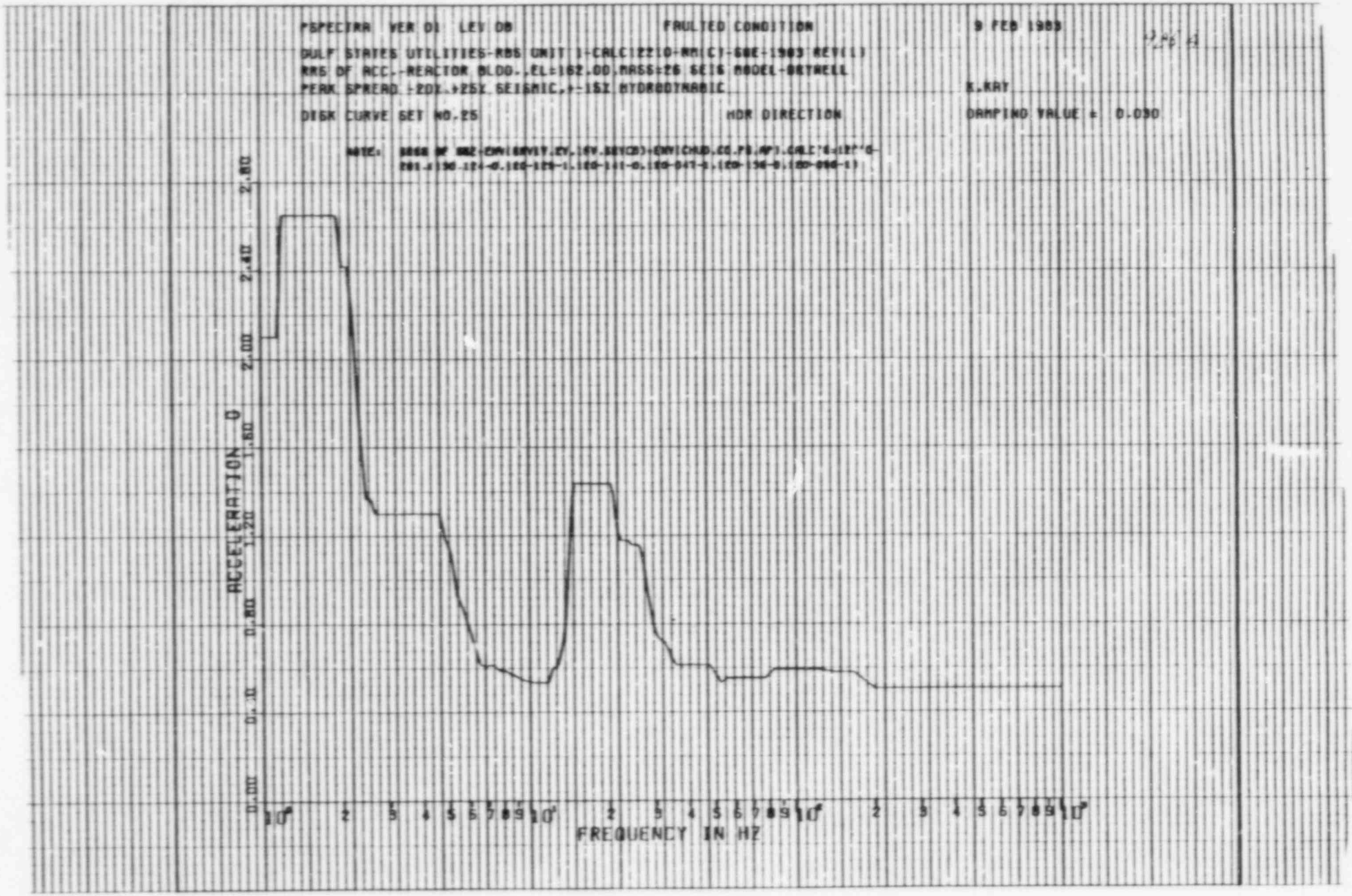

SPECTRA VER 01 LEV 08 UPSET CONDITION 9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=162.00 MASS=26 SEIS MODEL-ORTWELL
PEAK SPREAD -20%,+25% SEISMIC +=15% BTDROOTWABIC K.KAY
DISK CURVE SET NO.25 HOR DIRECTION DAMPING VALUE = 0.020
NOTE: BASS OF OBE(ENV(6KV1V.ZV,16V.5KVC0).CALC'6=12210-
201.1 30.12(-0.120-125-1.120-1(1-0)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

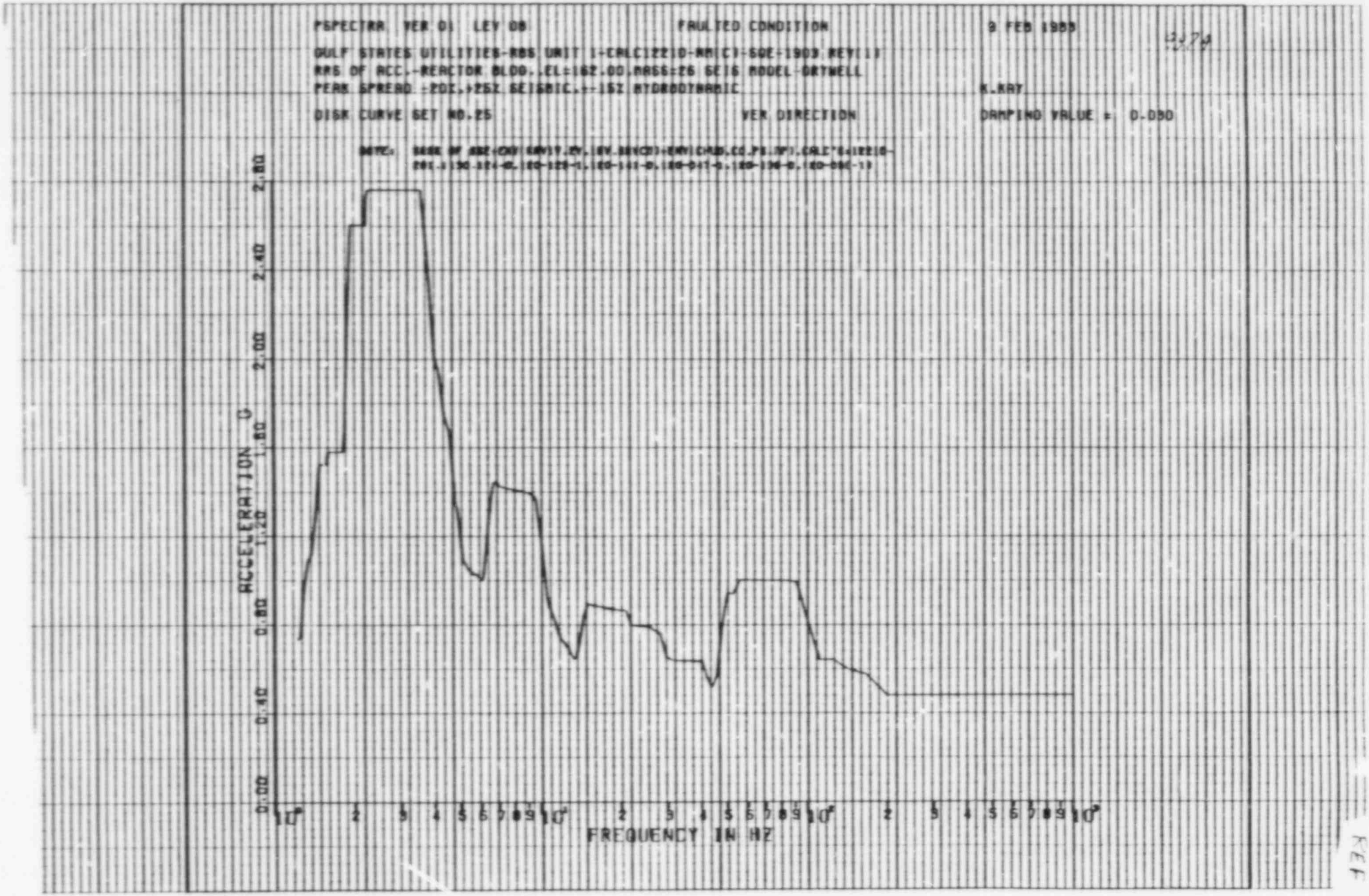

PSPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM C1-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=162.00 MASS=26 SEIS MODEL-DRYWELL
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.25
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: BASS OF OBE-ENVISRV19.2V.16V.80VC01.CALC'S=12210-
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

REF 61

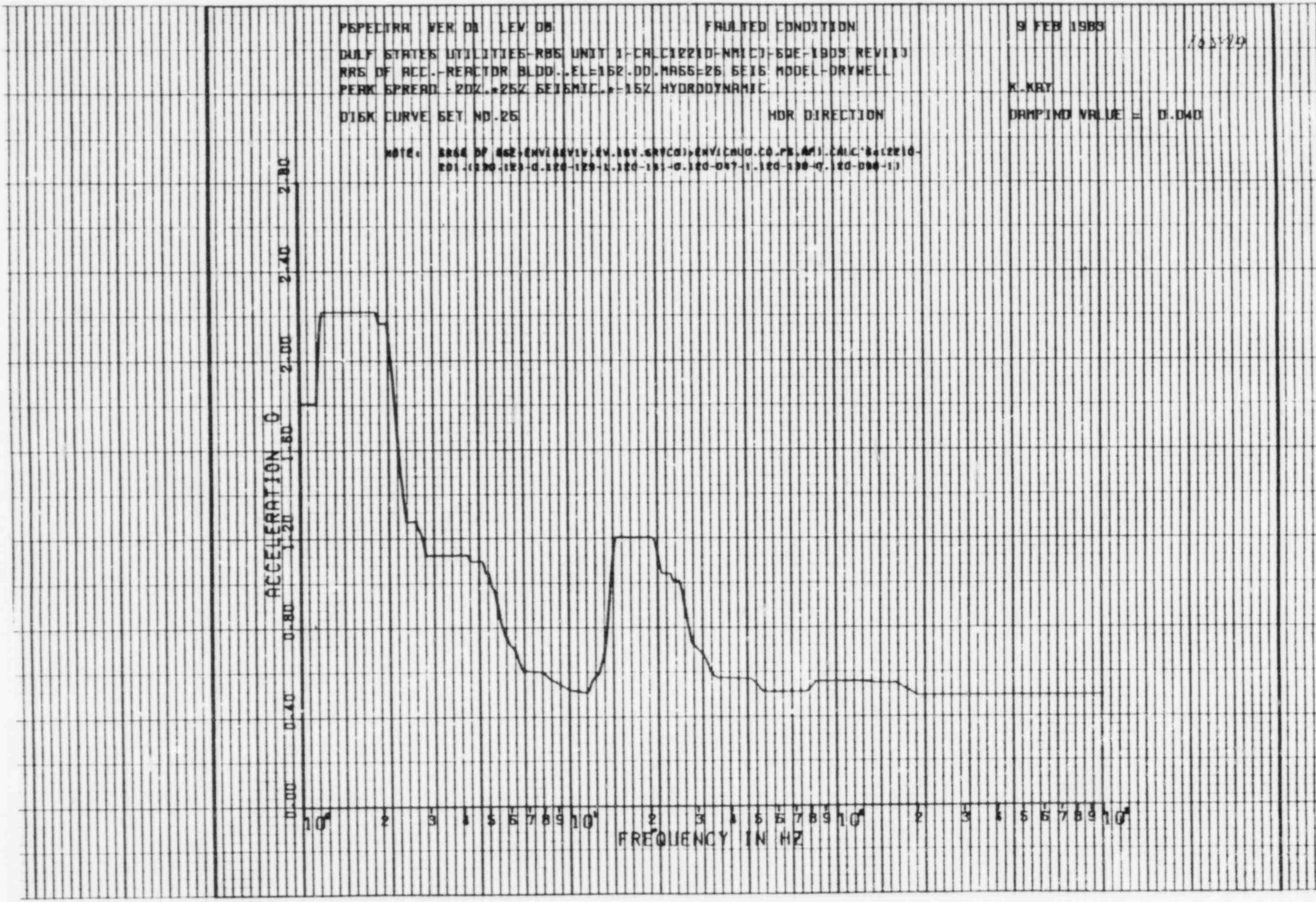

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL±162.00,MASS=26 SEIS MODEL-DRYWELL
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.25
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ
10^0 2 3 4 5 6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2 3 4 5 6 7 8 9 10^3


PSPECTRA VER 01 LEV 06
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-RR(C)-SQE-1903 KEY(1)
RRS OF ACC.-REACTOR BLDG.,EL=162.00,MASS=28 SEIS MODEL-DRYWELL
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
R.KAY
DISK CURVE SET NO.25
VER DIRECTION
DAMPING VALUE = 0.020
NOTE:
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ

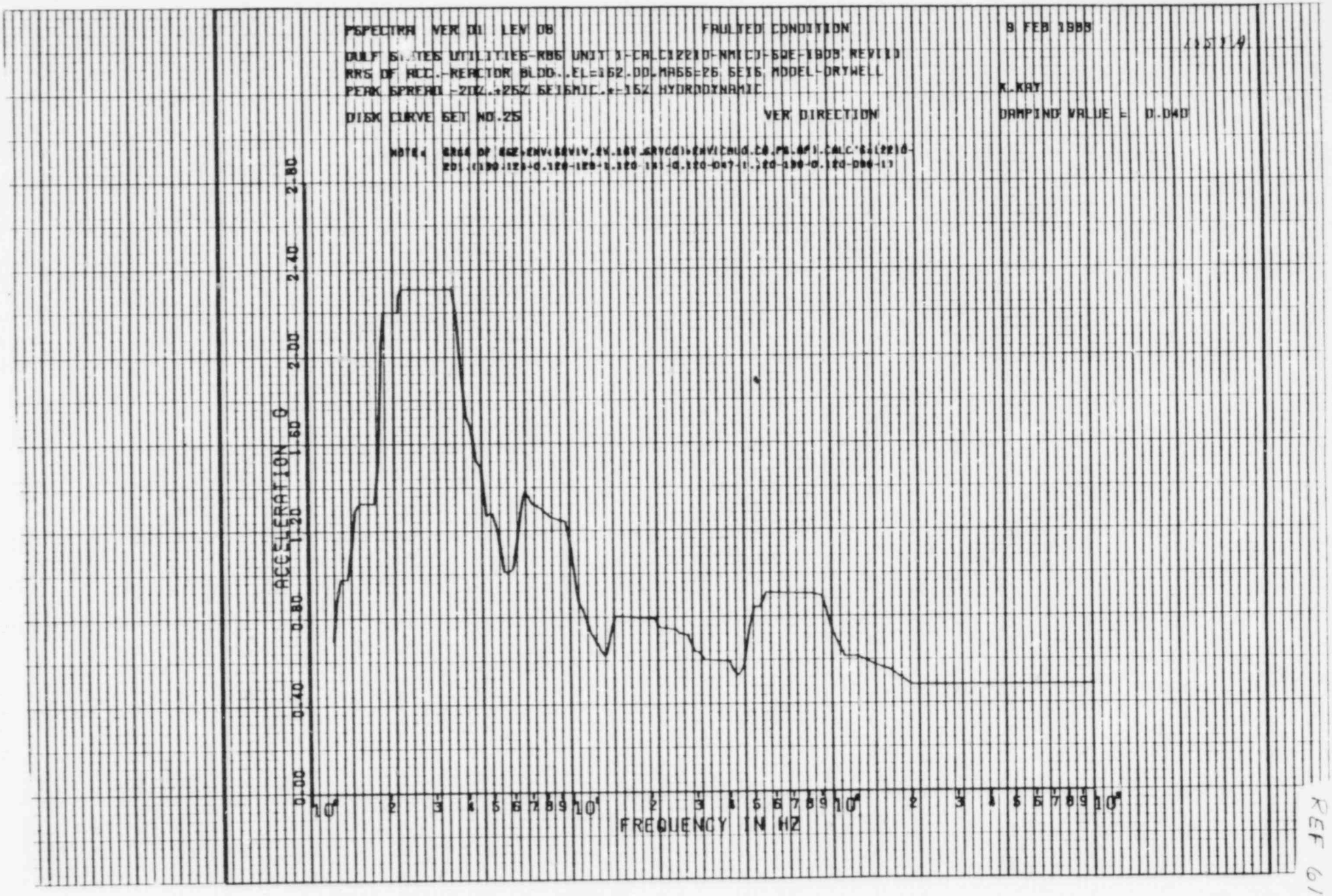

PSPECTRA VER 01 LEV 08 FAULTED CONDITION 9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-RM(C)-60E-1983 REV(1)
RMS OF ACC.-REACTOR BLDG.,EL=162.00,MASS=26 SEIS MODEL-BETWELL
PEAK SPREAD +20%,+25% SEISMIC,+-15% HYDRODYNAMIC E.KAY
DISK CURVE SET NO.25 HOR DIRECTION DAMPING VALUE = 0.030
NOTE: BASED ON SRSS-COMBINATION OF (SEISMIC)+(COMBINED HYDRODYNAMIC LOADS)
ACCELERATION G
2.80
2.40
2.00
1.60
1.20
0.80
0.40
0.00
FREQUENCY IN HZ


RSPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1989
GULF STATES UTILITIES-RBS UNIT 1-CALC1221D-RA(C)-SQE-1903 REV[1]
RMS OF ACC.-REACTOR BLDG.,EL=162.00,MASS=26 SEIS MODEL-DRYWELL
PEAK SPREAD =20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISP CURVE SET NO.25
VER DIRECTION
DAMPING VALUE = 0.050
NOTE:
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

REF 61



PSPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC3-SQE-1903 REV113
RRS OF ACC.-REACTOR BLDG.-EL=162.00.MASS=26 SEIS MODEL-DRYWELL
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.25
HOR DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-SSE-1808 REVIS
RRS OF RCC.-REACTOR BLDG. EL=162.00 MASS=26 SEIS MODEL-DRYWELL
PEAK SPRED -20% +25% SEISMIC +-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.25
VER DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

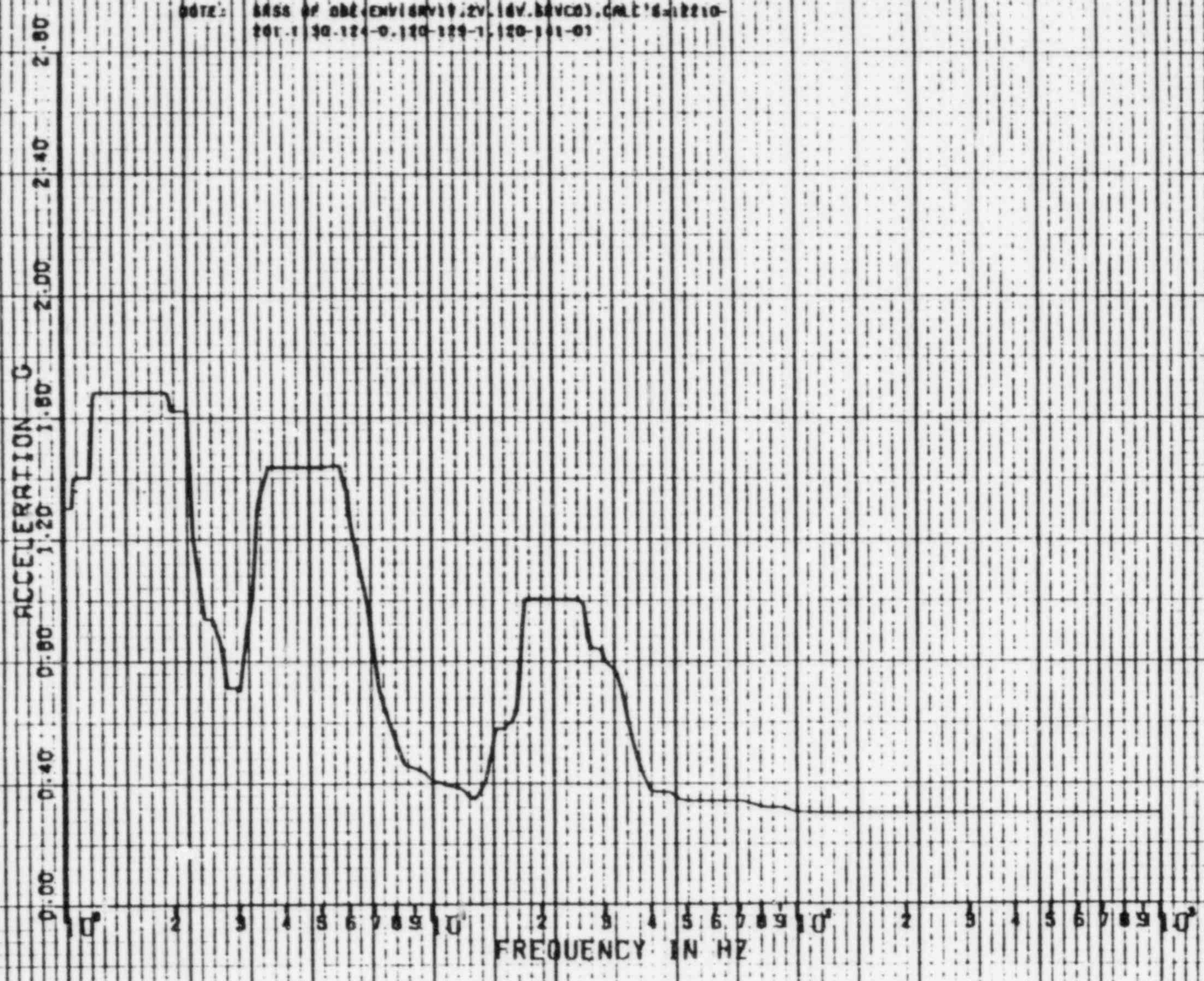
REF 61

PSPECTRA VER 01 LEV 08 UPSET CONDITION 9 FEB 1983

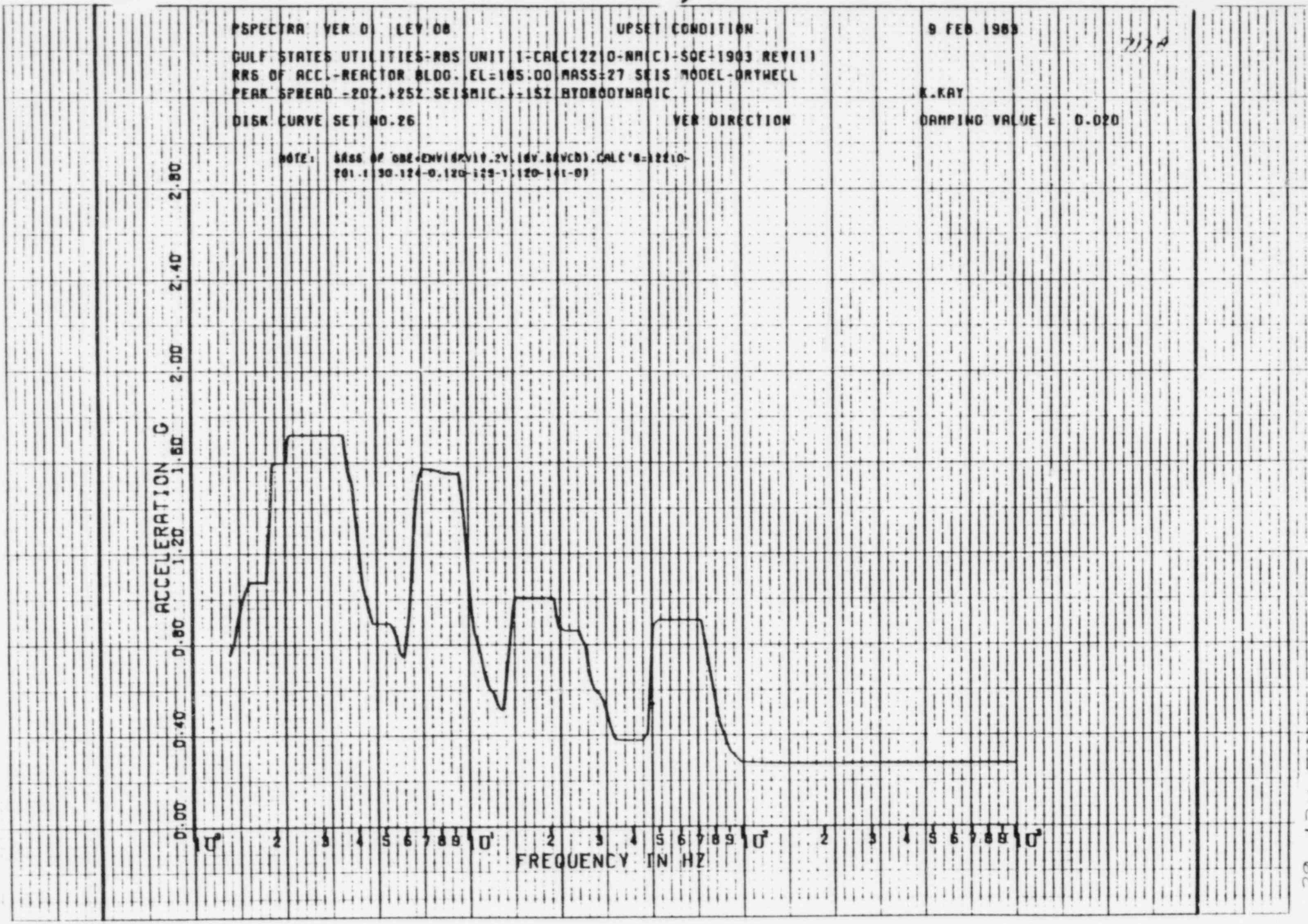
28A

GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=185.00 MASS=27 SEIS MODEL-DRYWELL
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC K.KAY

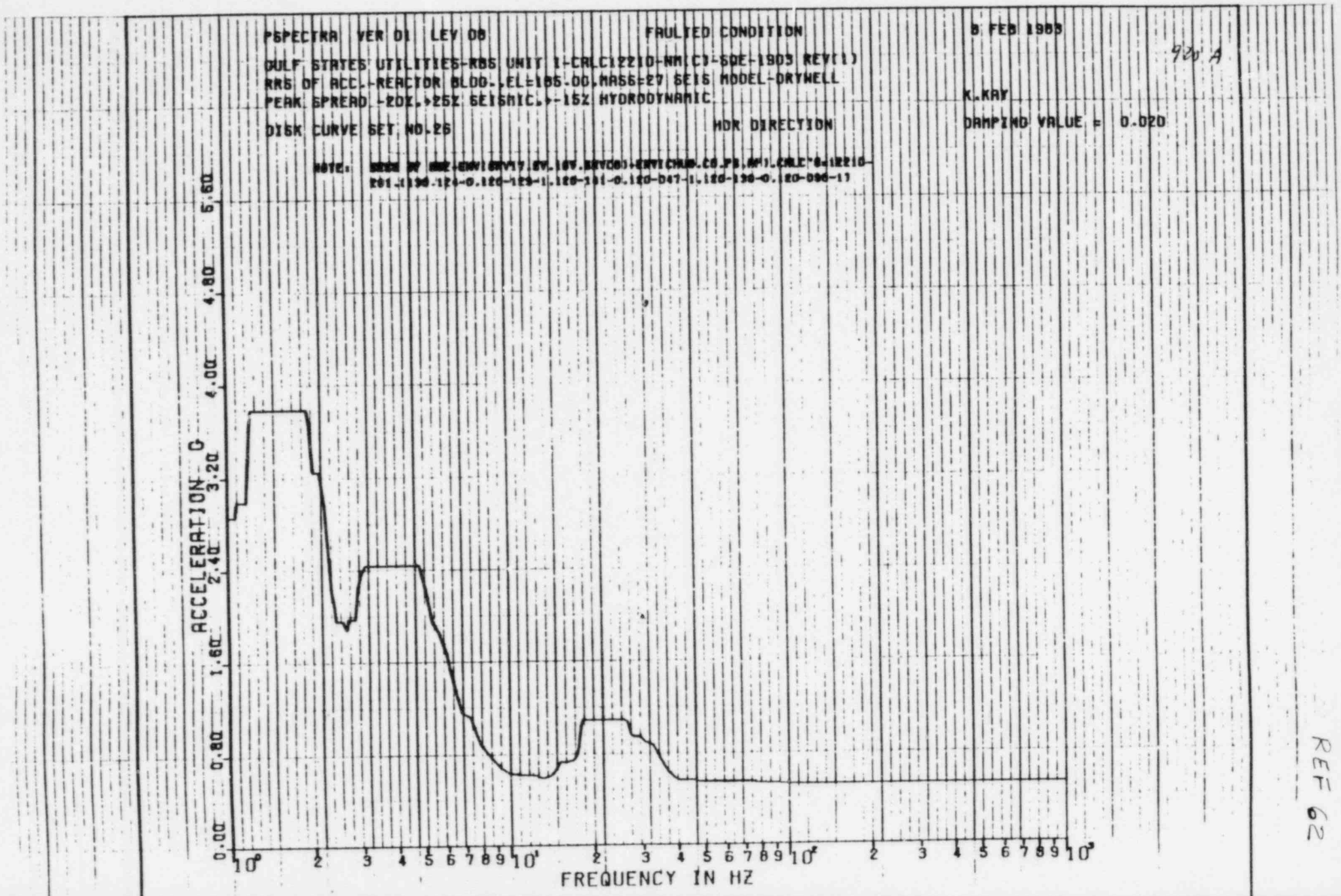
DISK CURVE SET NO.26 HOR DIRECTION DAMPING VALUE = 0.020



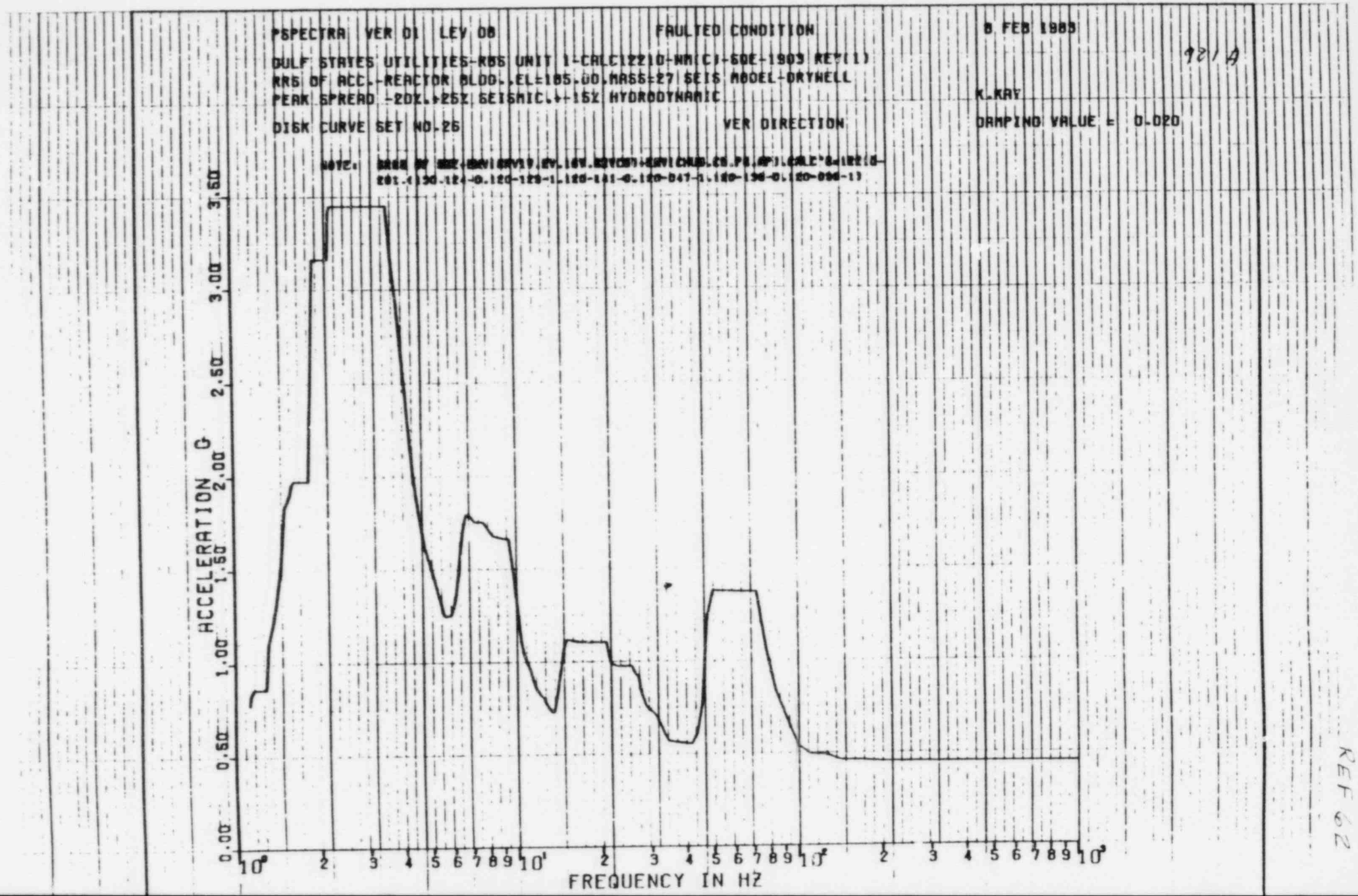
REF 62


PSPECTRA VER 0 LEV 08 UPSET CONDITION 9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=185.00 MASS=27 SEIS MODEL-DRYWELL
PEAK SPREAD =20%,+25% SEISMIC,+-15% HYDRODYNAMIC.
K.KAY
DISK CURVE SET NO.26 VER DIRECTION DAMPING VALUE = 0.020
NOTE: BASS OF OBE+ENV(6KV19.2V,16V,88V(D)).CALC'S=12210-
201.1(30.124-0.120-125-1.120-141-0)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

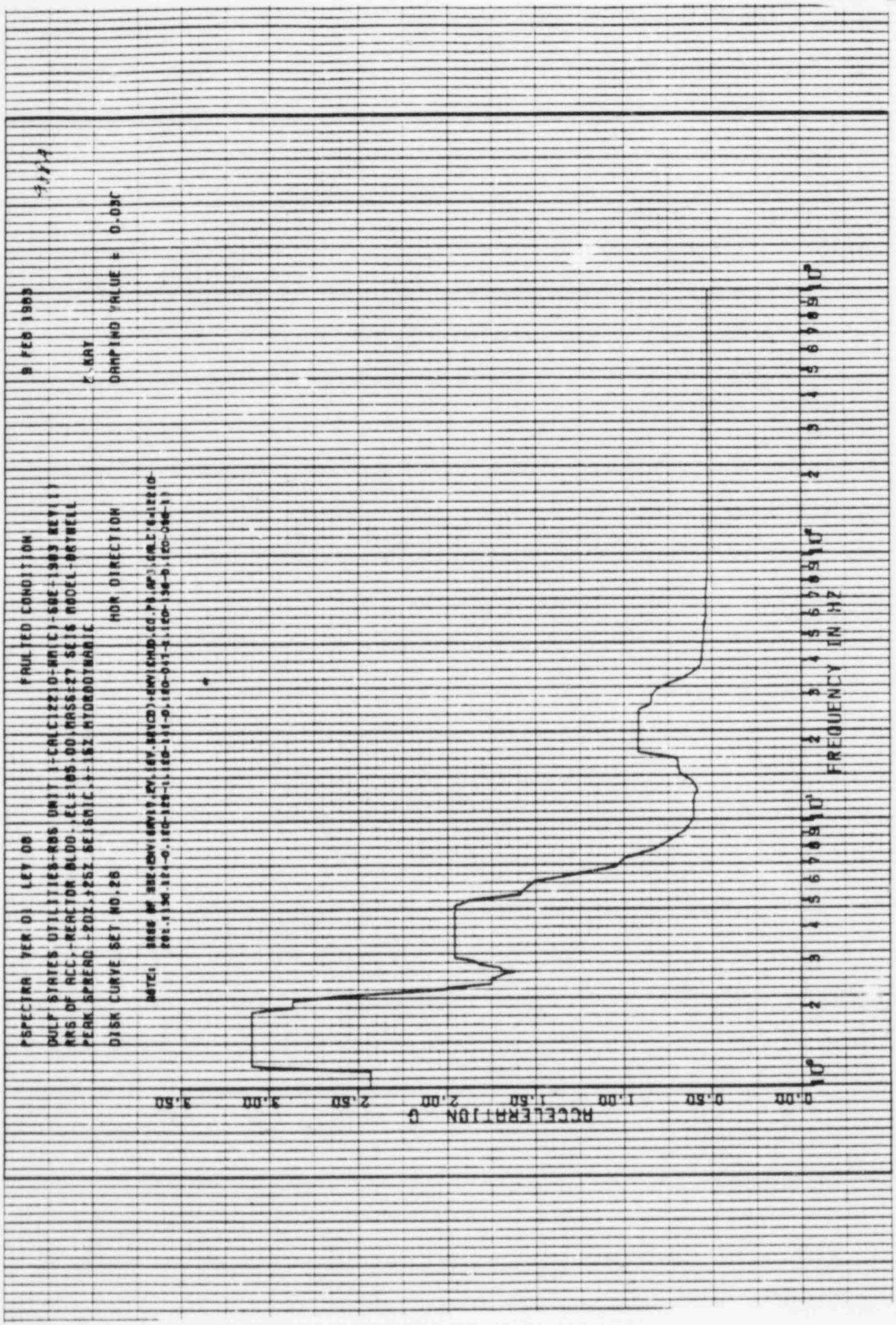
REF 62

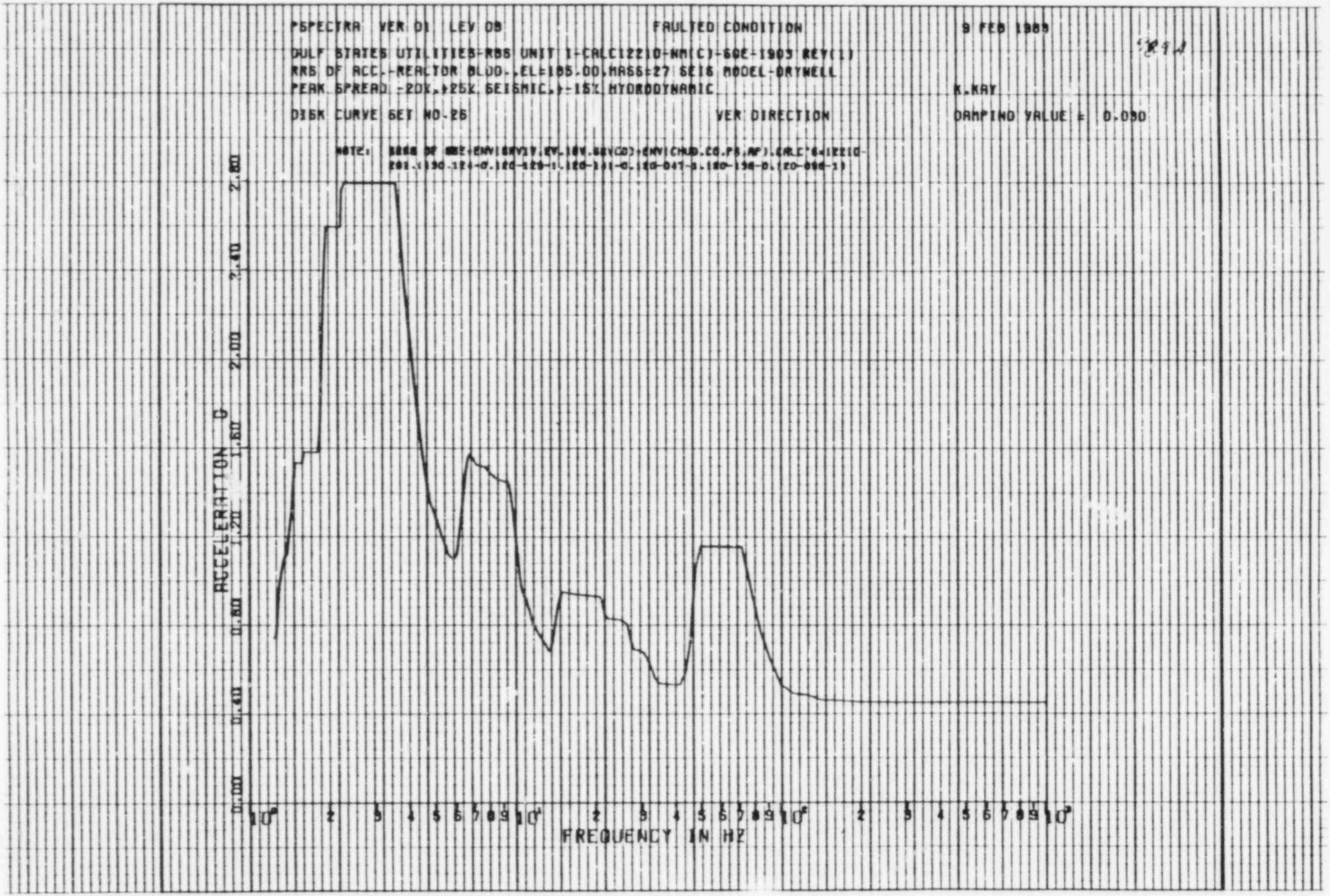

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=165.00,AZ55=27 SEIS MODEL-DRYWELL
PEAK SPREAD -20Z,+25Z SEISMIC,+-15Z HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.26
HDR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.80
1.60
2.40
3.20
4.00
4.80
5.60
FREQUENCY IN HZ

REF 62

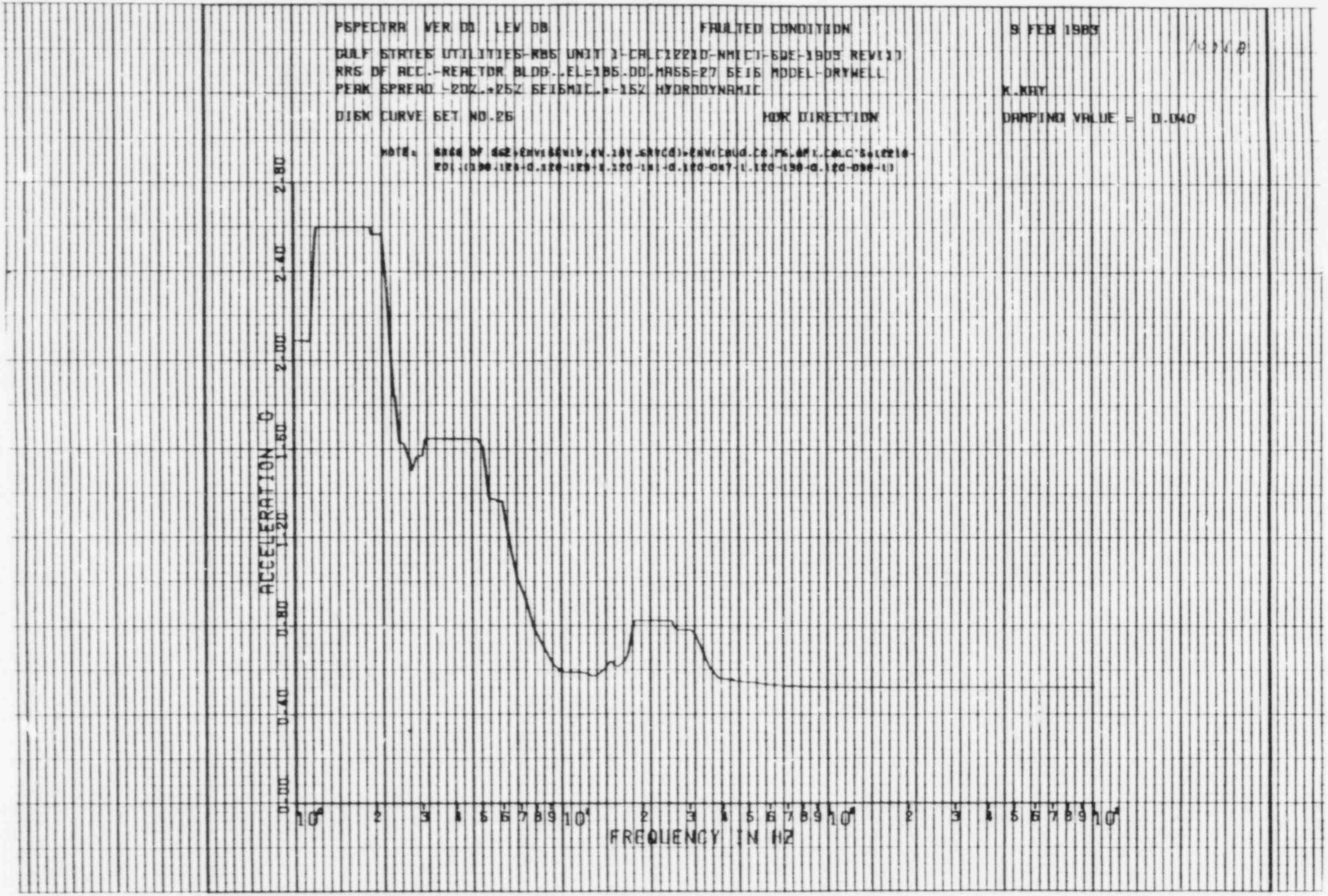

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RMS OF ACC.-REACTOR BLDG., EL=185.00, MASS=27 SEIS MODEL-DRYWELL
PEAK SPREAD -20%,+25% SEISMIC,++15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.26
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ

REF 62


PSPECTRA VER 01 LEV 08
GULF STATES UTILITIES-RBS UNIT 1-CALC1221D-RR(C)-SQE-1983 REV(1)
RRS OF ACC.,-REACTOR BLDG.,EL=185.00,MASS=27 SEIS MODEL-BRTWELL
PEAK SPREAD -20Z,+25Z SEISMIC,+-15Z HYDRODYNAMIC
DISK CURVE SET NO.28
8 FEB 1988
FAULTED CONDITION
DAMPING VALUE = 0.05
HOR DIRECTION
4 MAY
ACCELERATION G
FREQUENCY IN HZ
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50


SPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1989
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-60E-1903 REV(1)
RBS DF ACC.-REACTOR BLDG.,EL=185.00,MASS=27 SEIS MODEL-DRYWELL
PEAK SPREAD =20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO-25
VER DIRECTION
DAMPING VALUE = 0.050
ACCELERATION G
0.000
0.400
0.800
1.200
1.600
2.000
2.400
2.800
FREQUENCY IN HZ

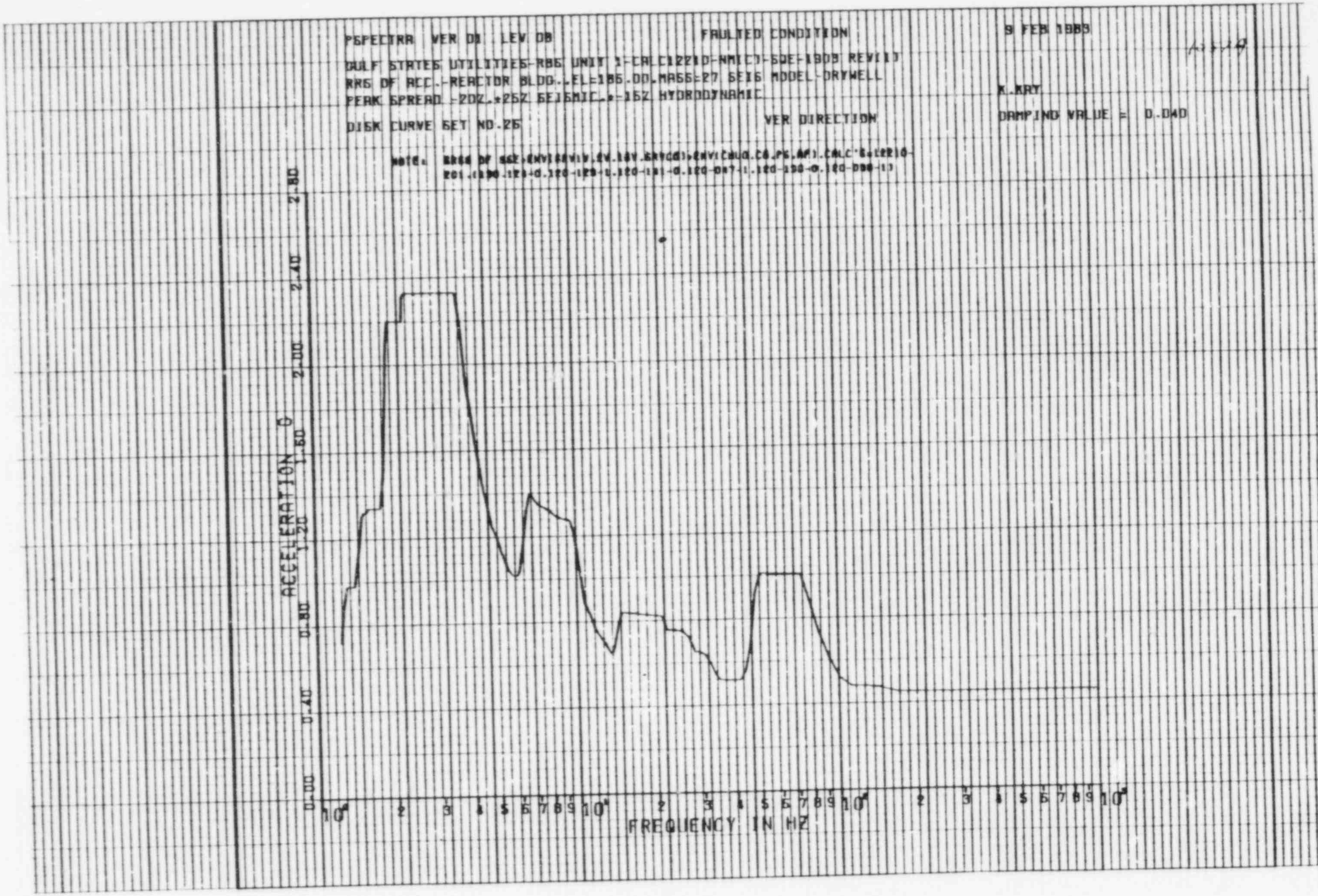
REF 62

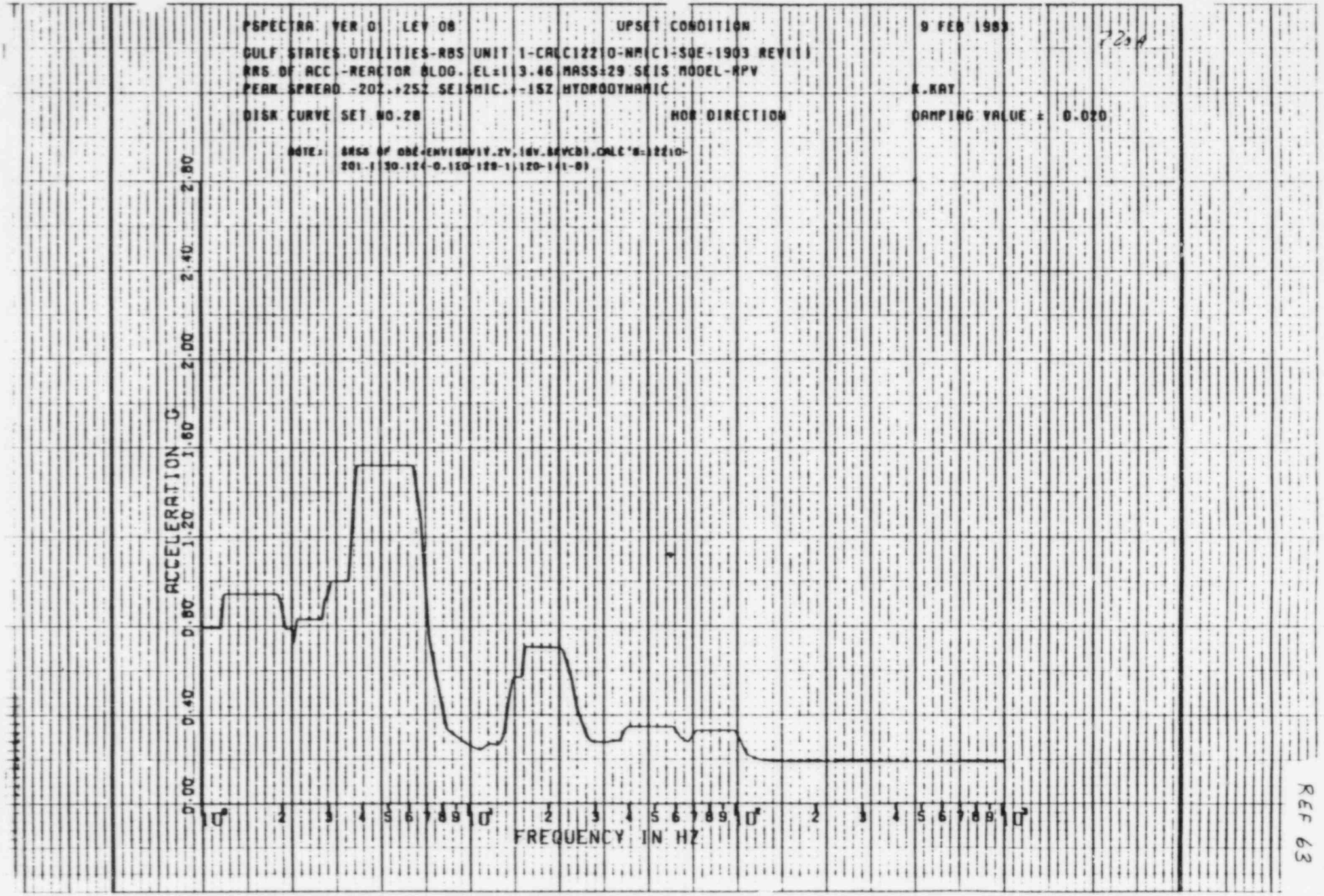


PSPECTRA VER 00 LEV 08
FAULTED CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC1-69E-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=185.00,MASS=27 SEIS MODEL-DRYWELL
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.26
HOR DIRECTION
DAMPING VALUE = 0.040
NOTE:
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

REF 62

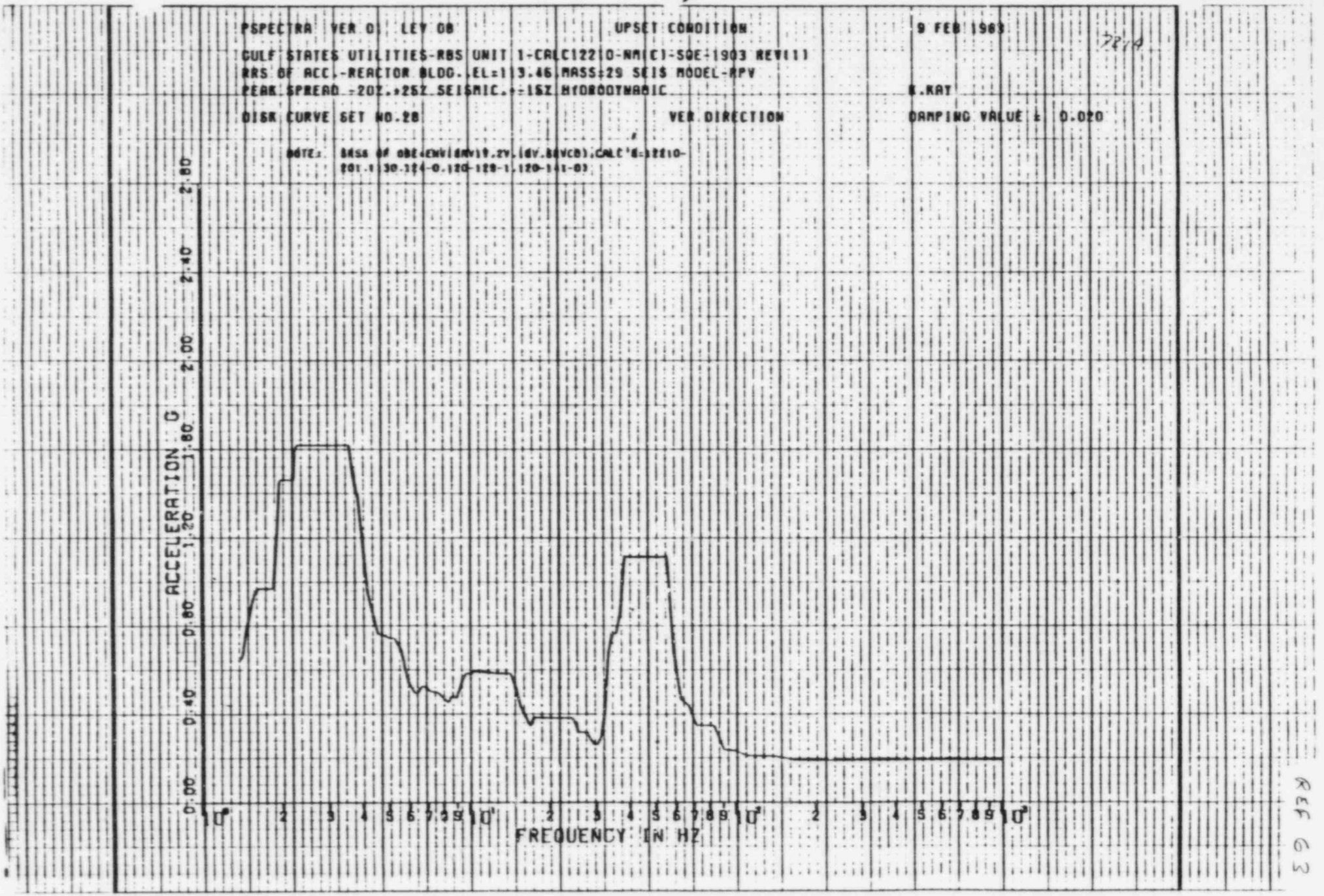
REF 62

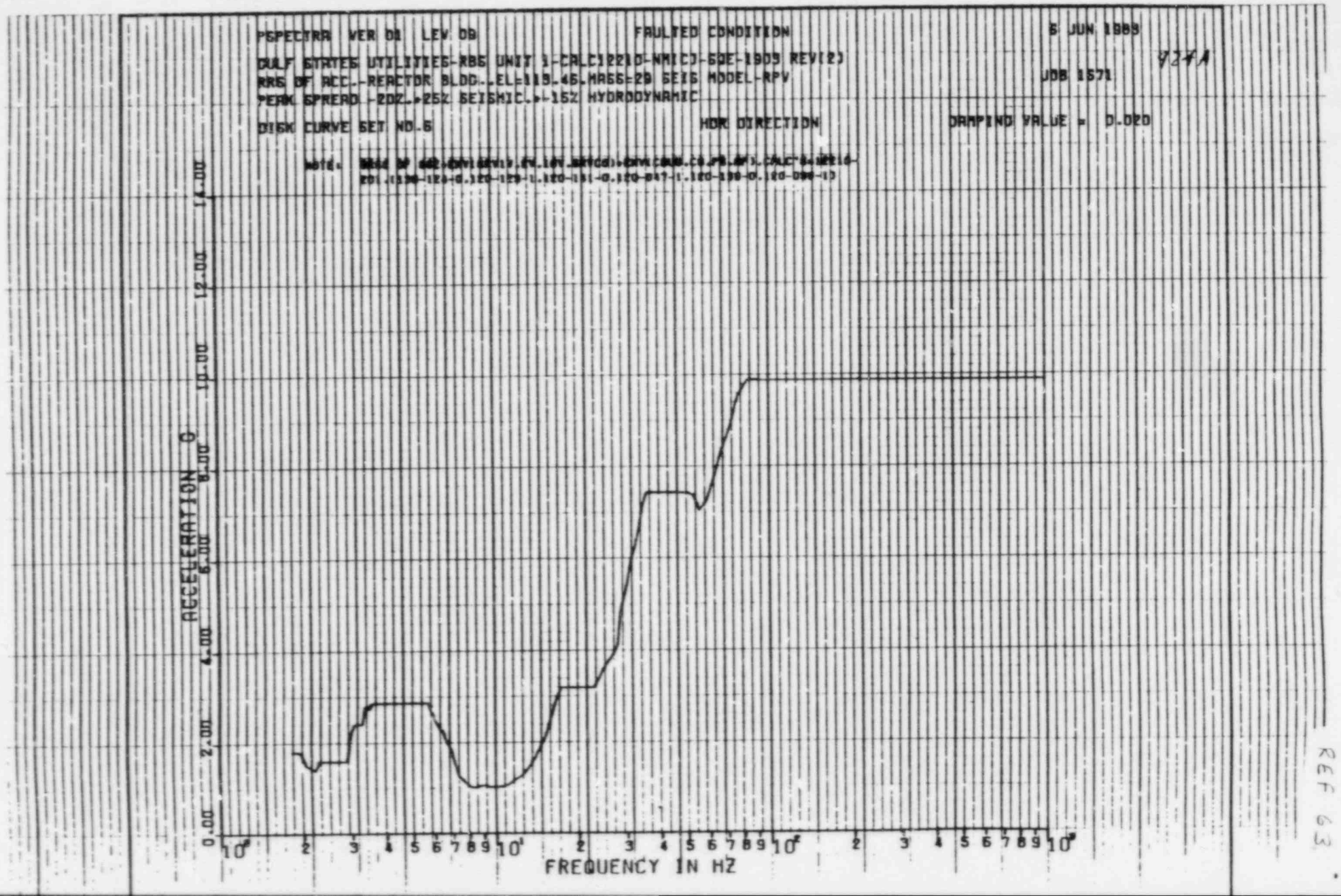

PSPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1989
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SDE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.-EL=186.00,MASS=27 SEIS MODEL-DRYWELL
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
VER DIRECTION
DAMPING VALUE = 0.040
DISK CURVE SET NO.26
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

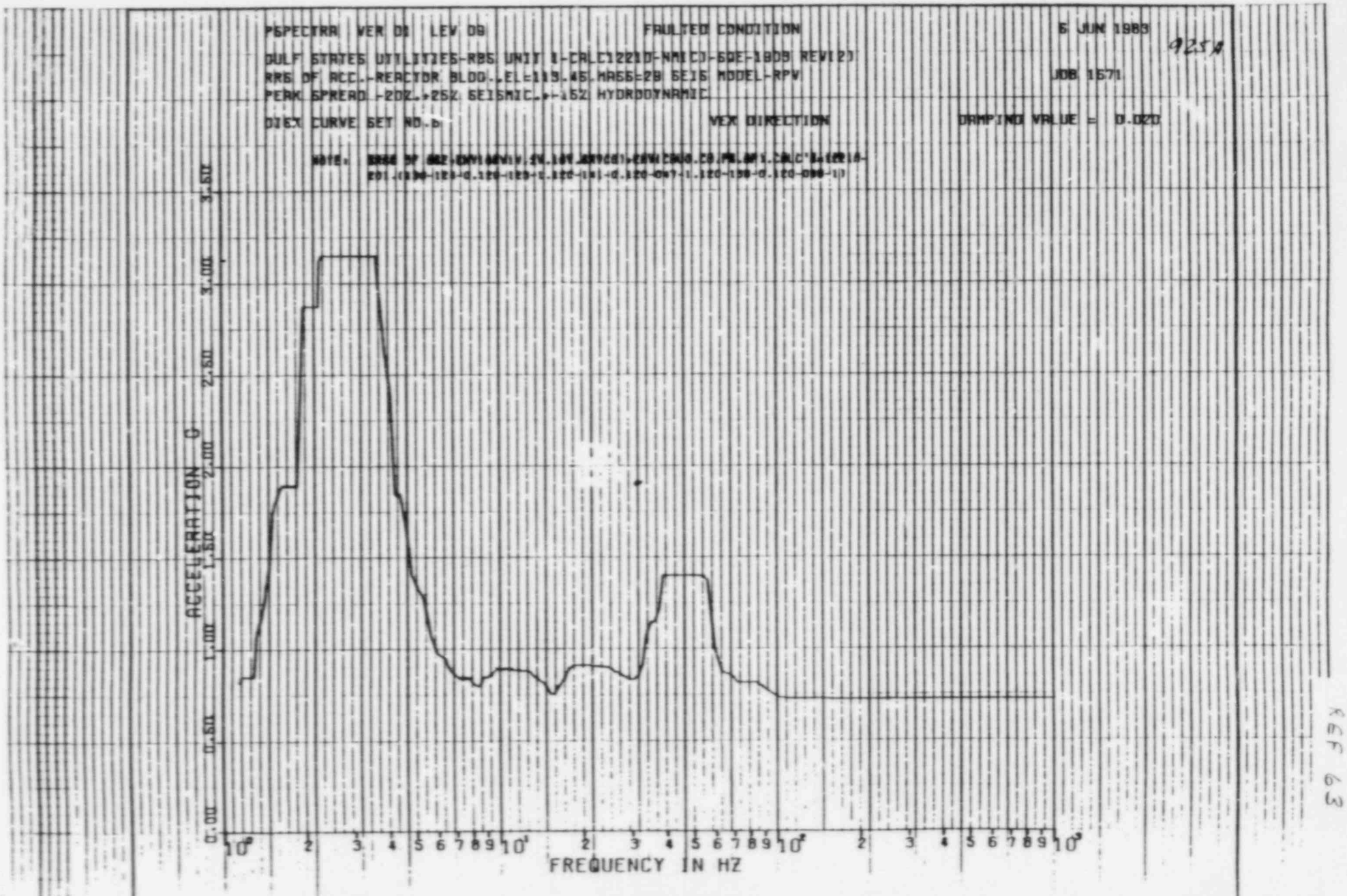

PSPECTRA VER 0 LEV 08
UPSET CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC122 0-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=113.46 MASS=29 SEIS MODEL-RPV
PEAK SPREAD =20Z,+25Z SEISMIC,+-15Z HYDRODYNAMIC
K.KAT
DISK CURVE SET NO.28
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: BASS OF OBE-ENVISRV1Y.ZV,1SV.SRVCB1.CALC'S=122(0-
201.)(30.12(-0.1(0-1Z9-1.1Z0-1(1-0)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ
0 2 3 4 5 6 7 8 9 0 2 3 4 5 6 7 8 9 0 2 3 4 5 6 7 8 9 0

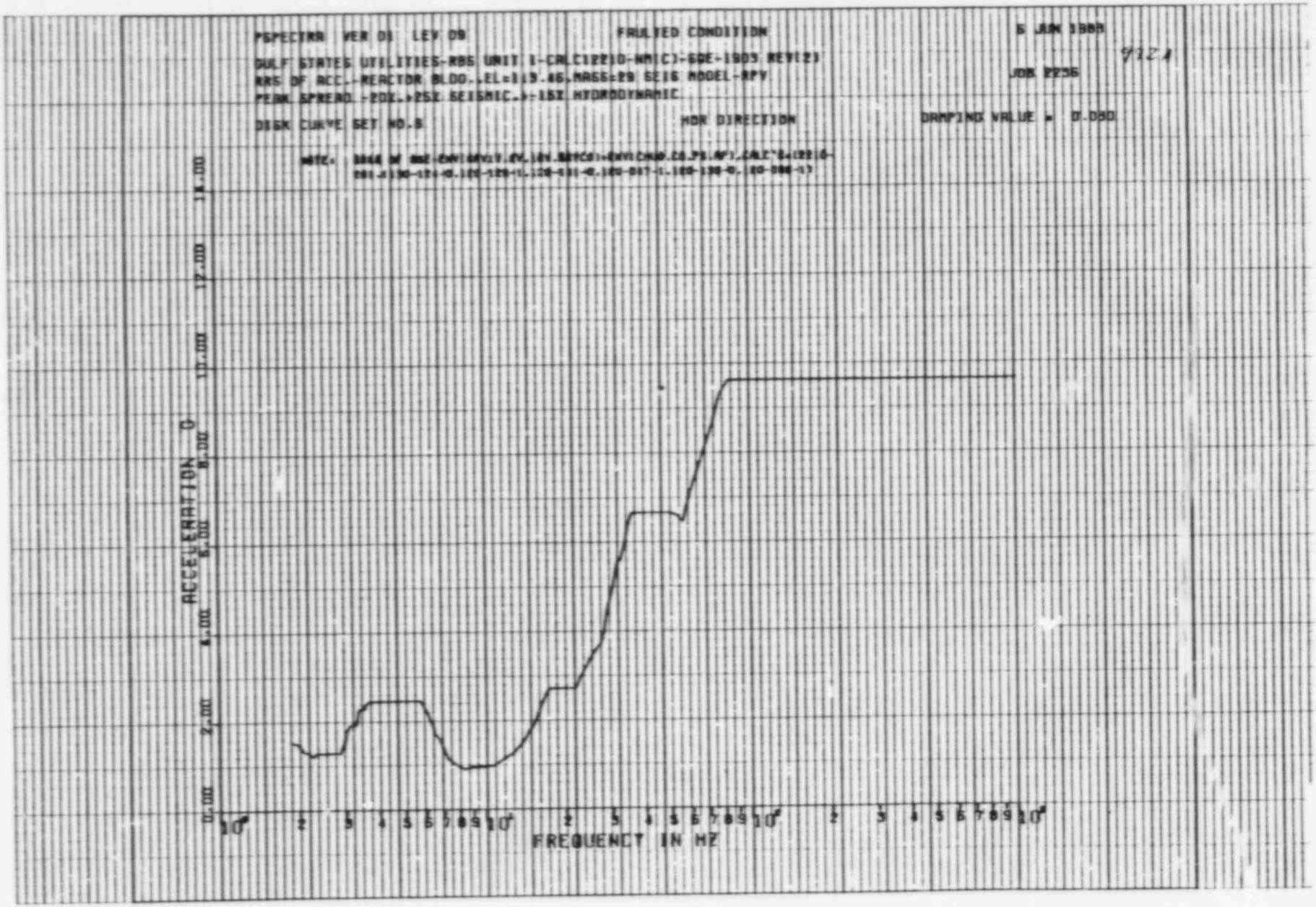
72A

REF 63

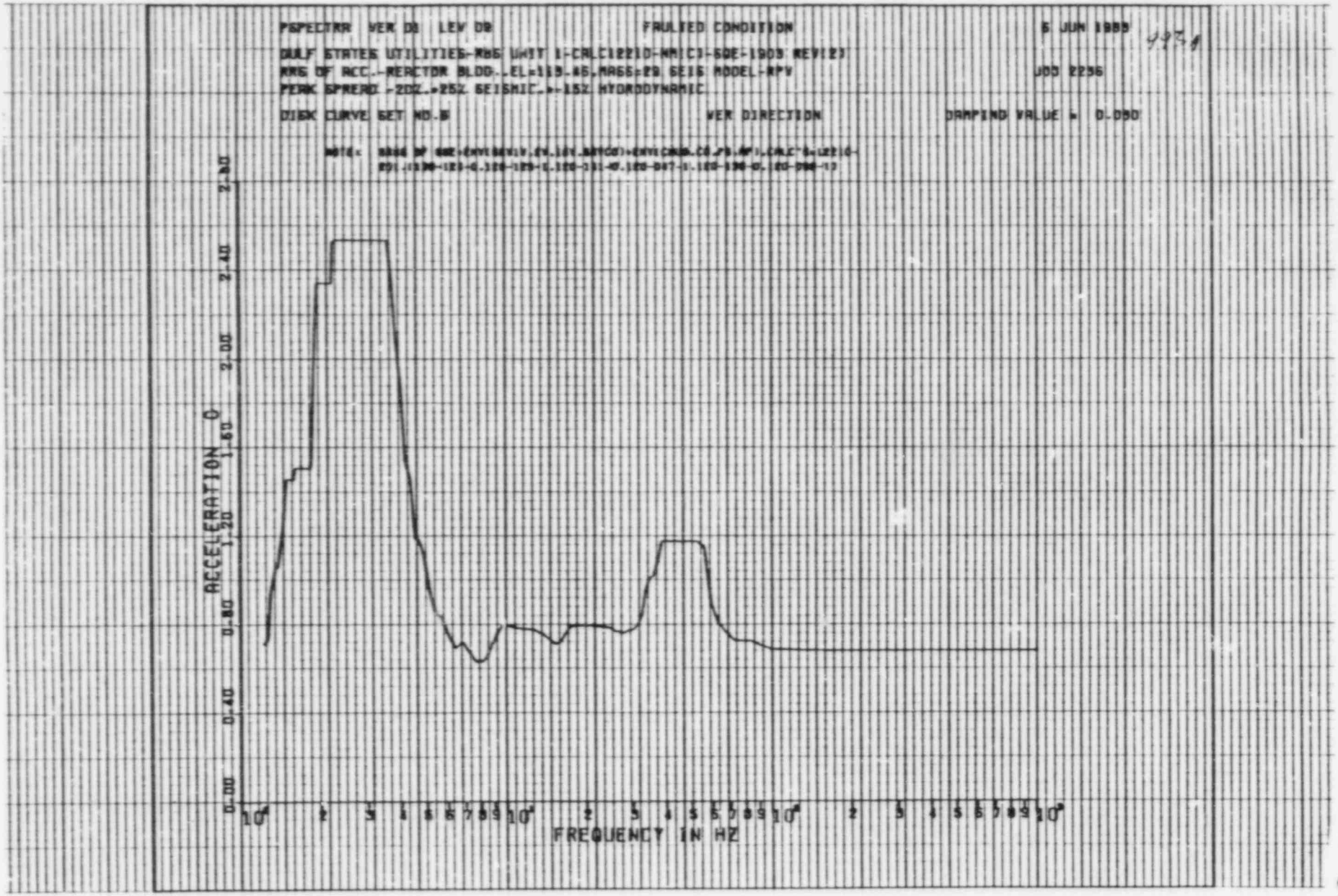

PSPECTRA VER 0 LEV 08 UPSET CONDITION 9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC122|0-NM|C|-SQE-1903 REV|1|
RRS OF ACC.-REACTOR BLDG. EL=|3.46 MASS=29 SEIS MODEL-RPV
PEAK SPREAD =20Z,+25Z SEISMIC,+-15Z HYDRODYNAMIC
DISK CURVE SET NO.28 VER DIRECTION DAMPING VALUE = 0.020
ACCELERATION G
FREQUENCY IN HZ


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
6 JUN 1989
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-60E-1005 REV(2)
JOB 1571
RRS OF ACC.-REACTOR BLDG.-EL=113.46.HRSS=20 SEIS MODEL-RPV
PEAK SPREAD -20%-+25% SEISMIC.+-15% HYDRODYNAMIC
DISK CURVE SET NO.6
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
2.00
4.00
6.00
8.00
10.00
12.00
14.00
FREQUENCY IN HZ

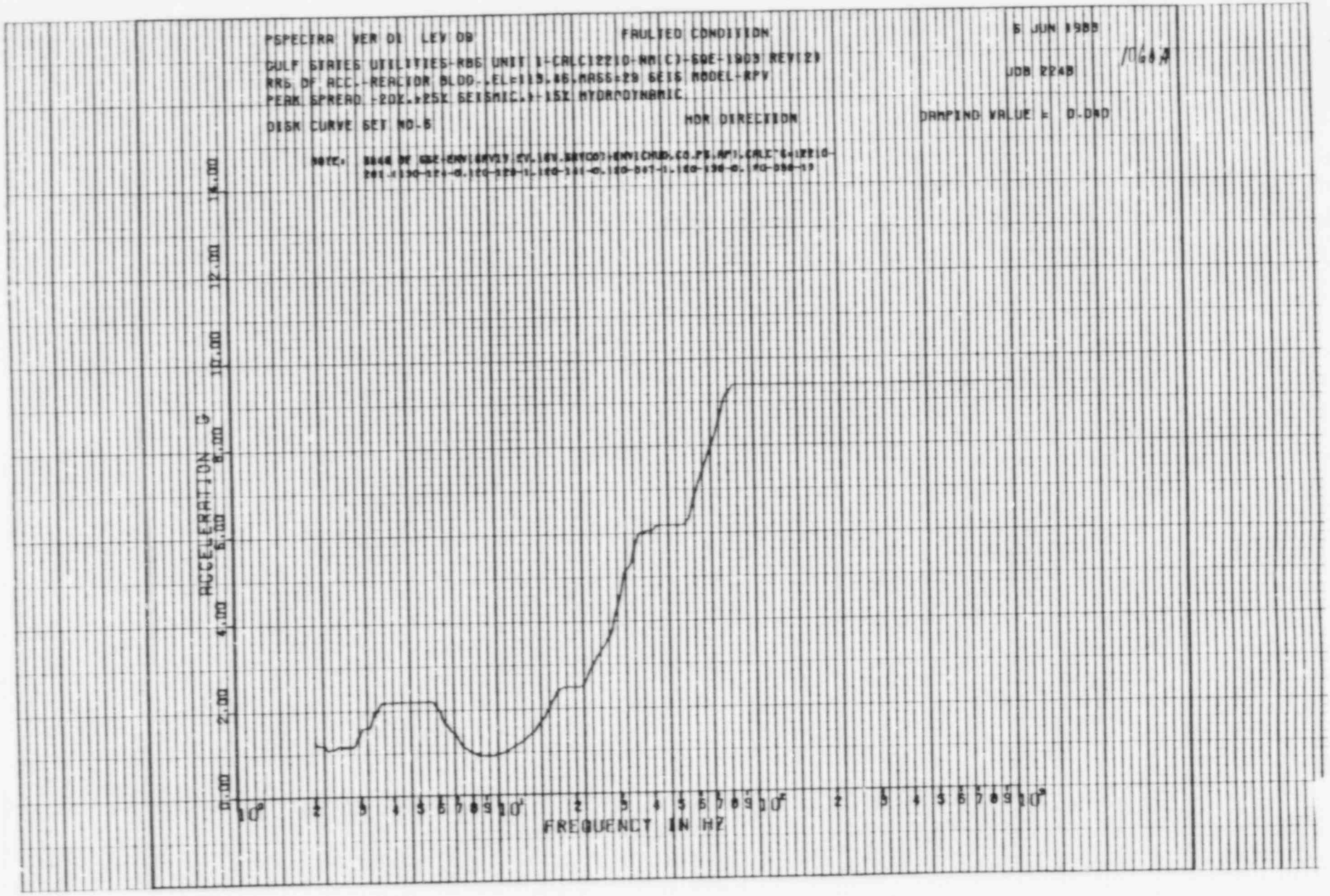

PSPECTRR VER 02 LEV 08
FAULTED CONDITION
6 JUN 1983
9254
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMICO-SQE-1808 REV(2)
RRS OF RCC.-REACTOR BLDG.,EL=113.46,AZ=28 SEIS MODEL-RPV
JOB 1671
PEAK SPREAD =20%,+25% SEISMIC,+-15% HYDRODYNAMIC
DATA CURVE SET NO.=1
VERTICAL DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
10
2
3
4
5
6
7
8
9
FREQUENCY IN HZ


PSPECTRR VER 01 LEV 09
FAULTED CONDITION
6 JAN 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC(22)0-NM(C)-GDE-1903 REV(2)
JOB 2256
RMS OF ACC.-REACTOR BLDG.,EL=119.46,MASS=29 SEIS MODEL-RPV
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
DESK CURVE SET NO.8
HOR DIRECTION
DAMPING VALUE = 0.050
ACCELERATION G
0.00
2.00
4.00
6.00
8.00
10.00
12.00
14.00
FREQUENCY IN HZ

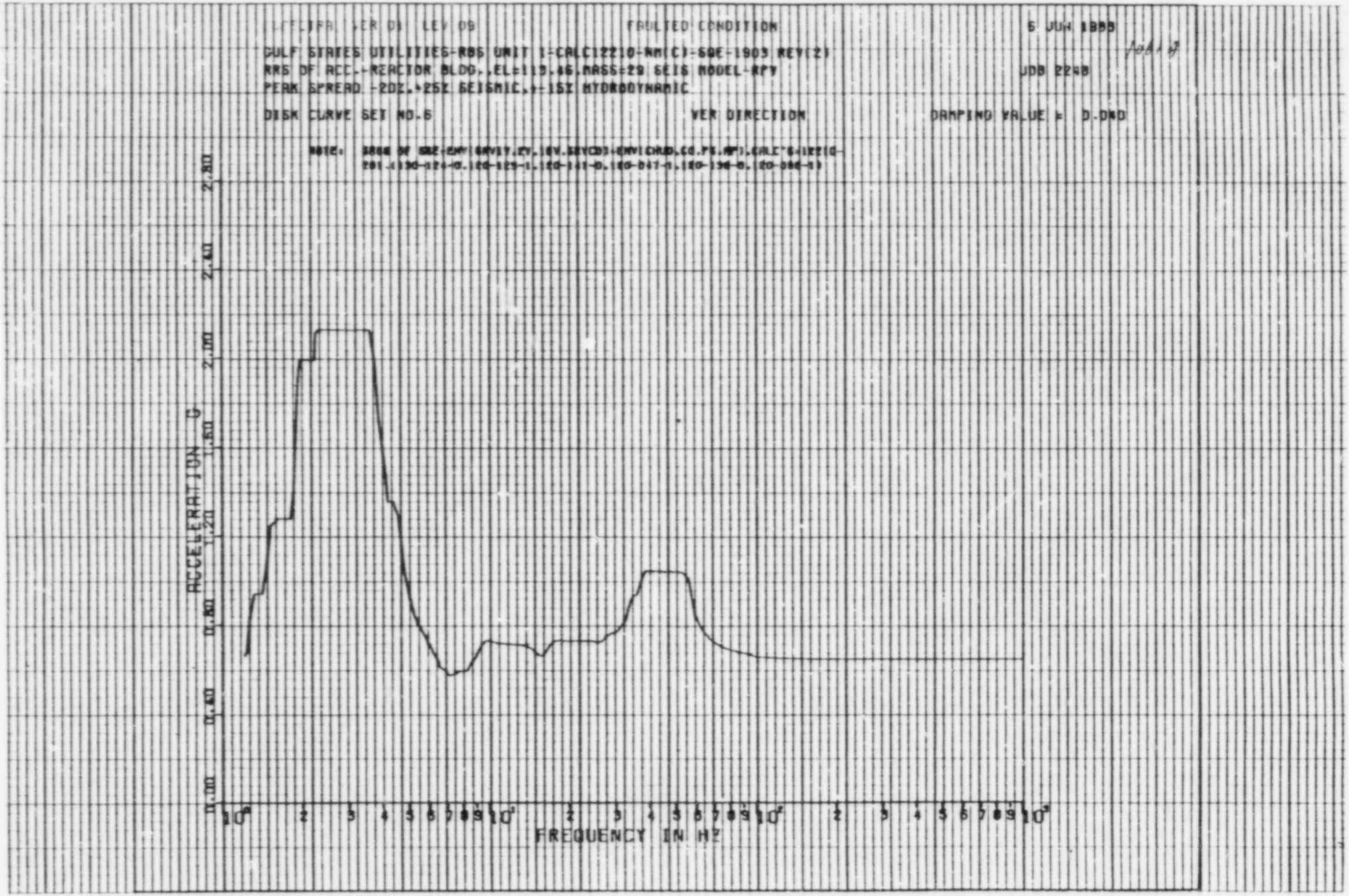
REF 63


SPECTRA VER DB LEV DB
FAULTED CONDITION
6 JUN 1989
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(2)
RMS OF ACC.-REACTOR BLDG.-EL=119.46,AZ=29 SEIS MODEL-RPV
UDS 2256
PEAK SPREAD =20%->25% SEISMIC->+15% HYDRODYNAMIC
DESK CURVE SET NO.8
VER DIRECTION
DAMPING VALUE = 0.050
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

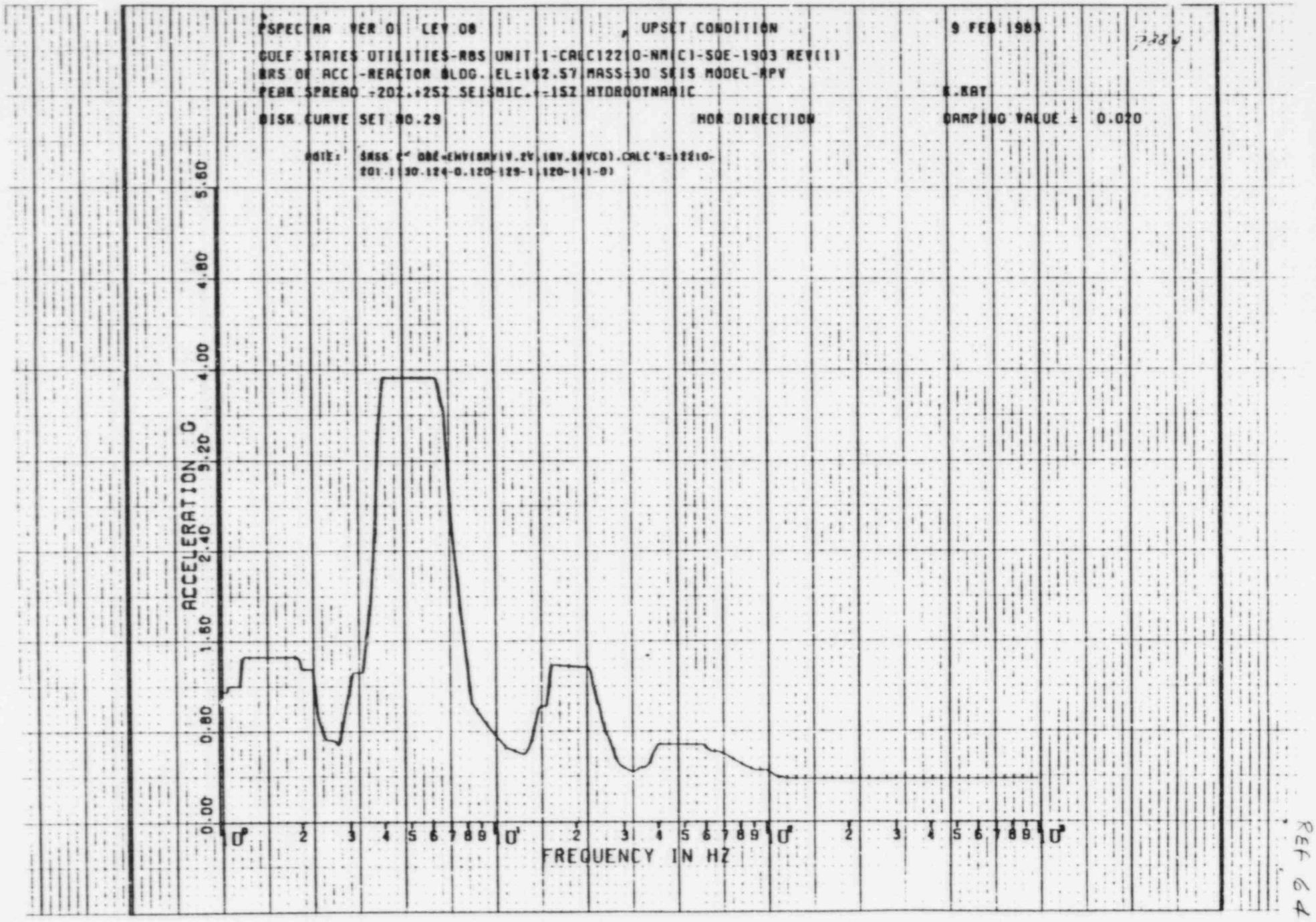
REF 63


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
6 JUN 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MA(C)-GDE-1903 REV(2)
UDB 2248
RBS DF ACC.-REACTOR BLDG.-EL=119.46,AZ=29 SEIS MODEL-RPV
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
DISK CURVE SET NO-6
HOR DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
0.00
2.00
4.00
6.00
8.00
10.00
12.00
14.00
FREQUENCY IN HZ

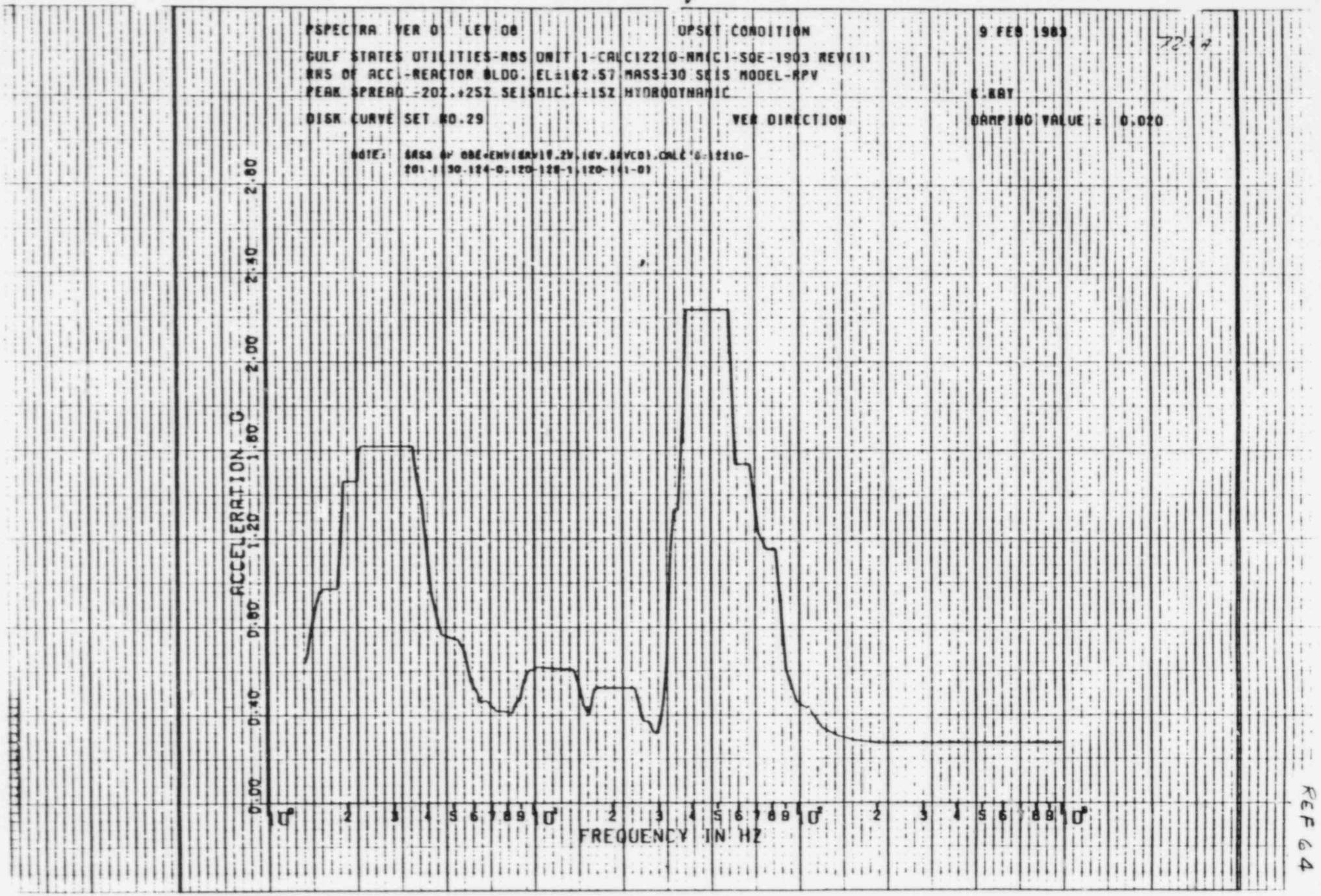
REF 63


FAULTED CONDITION
6 JUN 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-RM(C)-60E-1903 REV(2)
UDB 2248
PEAK SPREAD -20Z,+25Z SEISMIC,+-15Z HYDRODYNAMIC
DISK CURVE SET NO.6
VER DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

RGF 63


PSPECTRA VER 0 LEV 08
UPSET CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
BRS OF ACC -REACTOR BLDG. EL=162.57 MASS=30 SEIS MODEL-RPV
PEAK SPREAD +20%,+25% SEISMIC,+-15% HYDRODYNAMIC
E.BAT
BISK CURVE SET 80.29
HOR DIRECTION
DAMPING VALUE ± 0.020
NOTE: SRSS OF OBE-ENV(SRV(V.2V,18V,88VCB),CALC'S=12210-
201.1 30.124-0.120-129-1.120-141-0)
ACCELERATION G
0.00
0.80
1.60
2.40
3.20
4.00
4.80
5.60
FREQUENCY IN HZ

REF 64


SPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RMS OF ACCL-REACTOR BLDG. EL=162.57 MASS=30 SEIS MODEL-RPV
PEAK SPREAD =20Z,+25Z SEISMIC,+=15Z HYDRODYNAMIC
6.KBT
DISK CURVE SET 80.29
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: BASE OF OBE-ENV(ERV19.2V,1EV.84VC0).CALC 8.12210-201.1(30.124-0.120-128-1.120-1(1-0)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.00
FREQUENCY IN HZ
REF 64

F REF 64

PSPECTRA VER 01 LEV 09 FAULTED CONDITION 6 JUN 1983

926A

GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1909 REV(2)

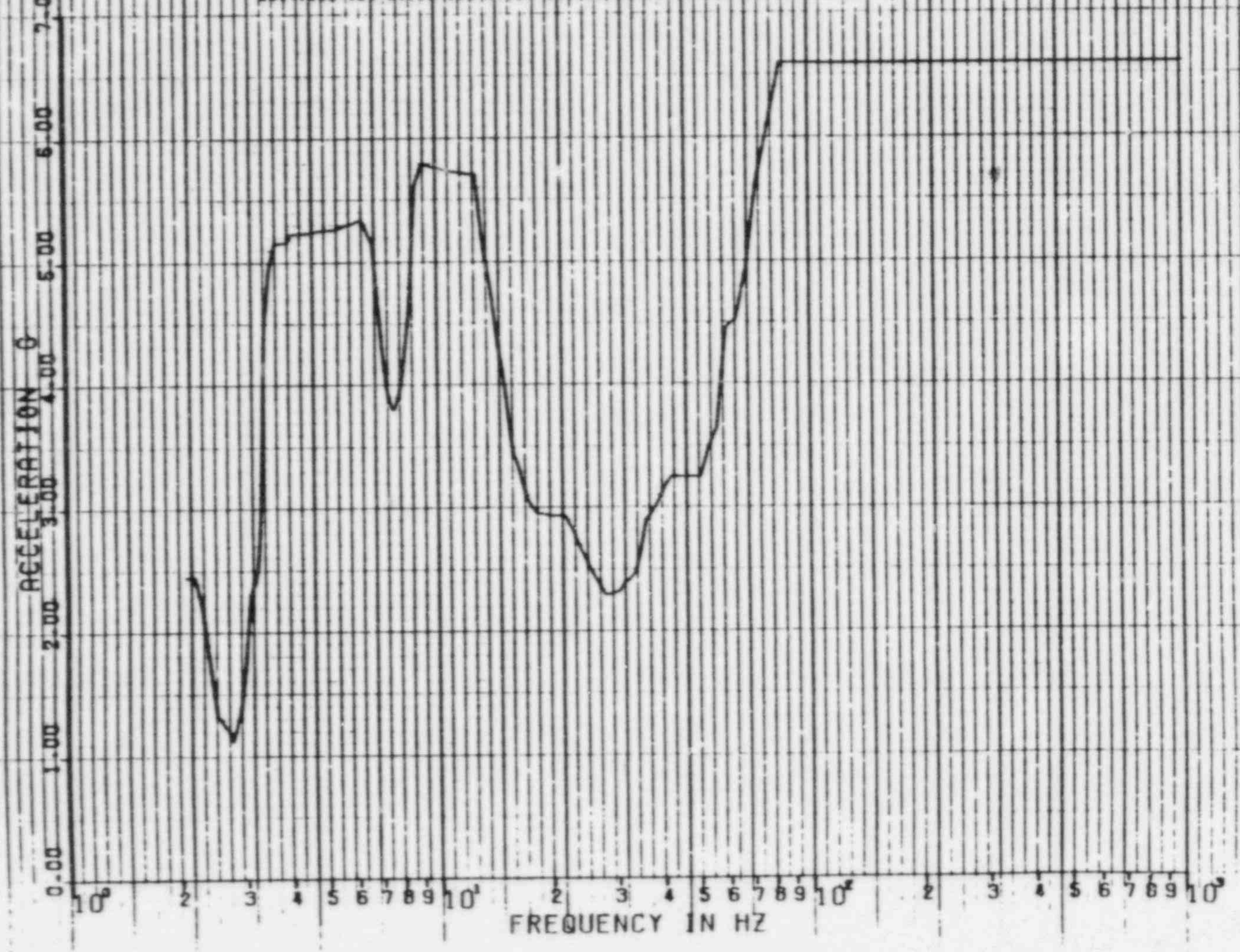
RRS OF ACC.-REACTOR BLDG.-EL=162.57-MASS=30 SEIS MODEL-RPV JOB 1571

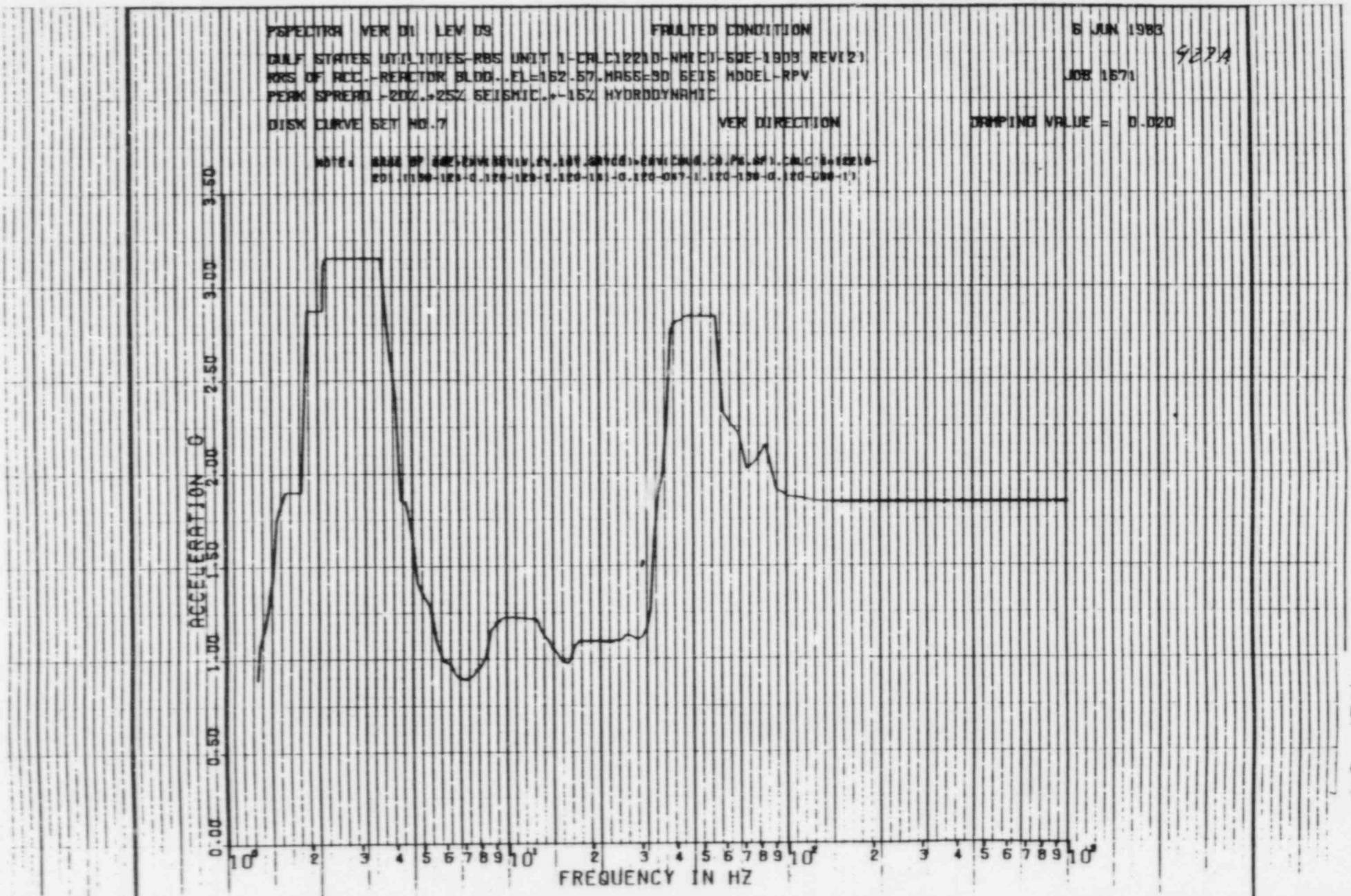
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC

DISK CURVE SET NO.7 HOR DIRECTION DAMPING VALUE = 0.020

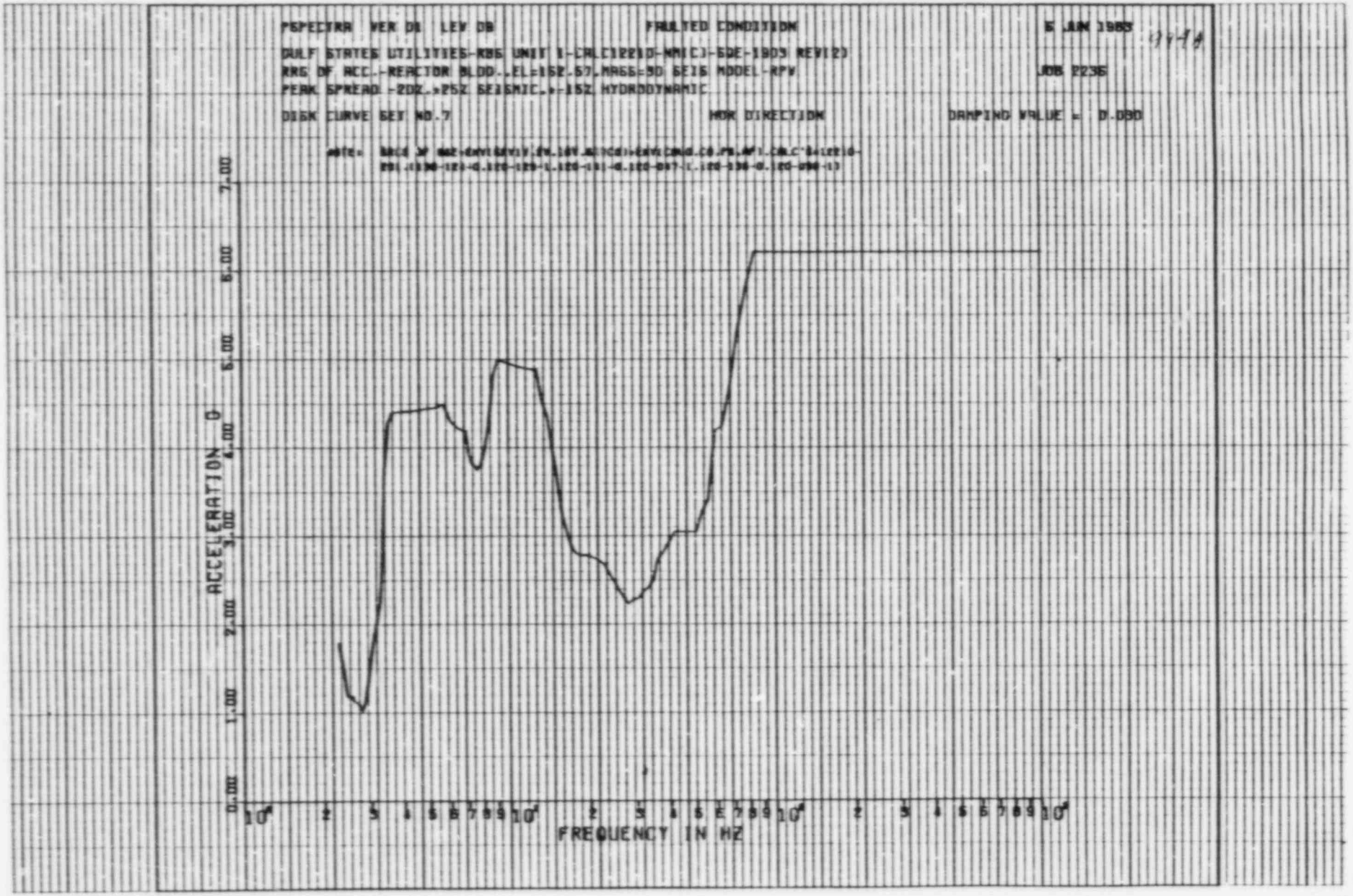
NOTE: [illegible]

201-(130-123-0.120-129-1.120-131-0.120-047-1.120-338-0.120-098-1)




RSPECTRA VER 01 LEV 03
FAULTED CONDITION
6 JUN 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-SQE-1803 REV(2)
JOB 1671
RMS OF REC.-REACTOR BLDG.-EL=152.57.MASS=3D SEIS MODEL-RPV
PEAK SPREAD -20%.+25% SEISMIC.+-15% HYDRODYNAMIC
DISK CURVE SET NO.7
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10
2
3
4
5
6
7
8
9
10

REF 64


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
6 JAN 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC(1221D-NMIC)-SQE-1805 REV(2)
RRS OF ACC.-REACTOR BLDG.,EL=152.67,MASS=3D SEIS MODEL-RPV
JOB 2236
PEAK SPREAD -20Z,+25Z SEISMIC,+-15Z HYDRODYNAMIC
DISK CURVE SET NO.7
MDR DIRECTION
DAMPING VALUE = 0.030
ACCELERATION G
0.00
1.00
2.00
3.00
4.00
5.00
6.00
7.00
FREQUENCY IN HZ

REF 64

REF 64

PSPECTRA VER 01 LEV 09 FAULTED CONDITION 6 JUN 1985

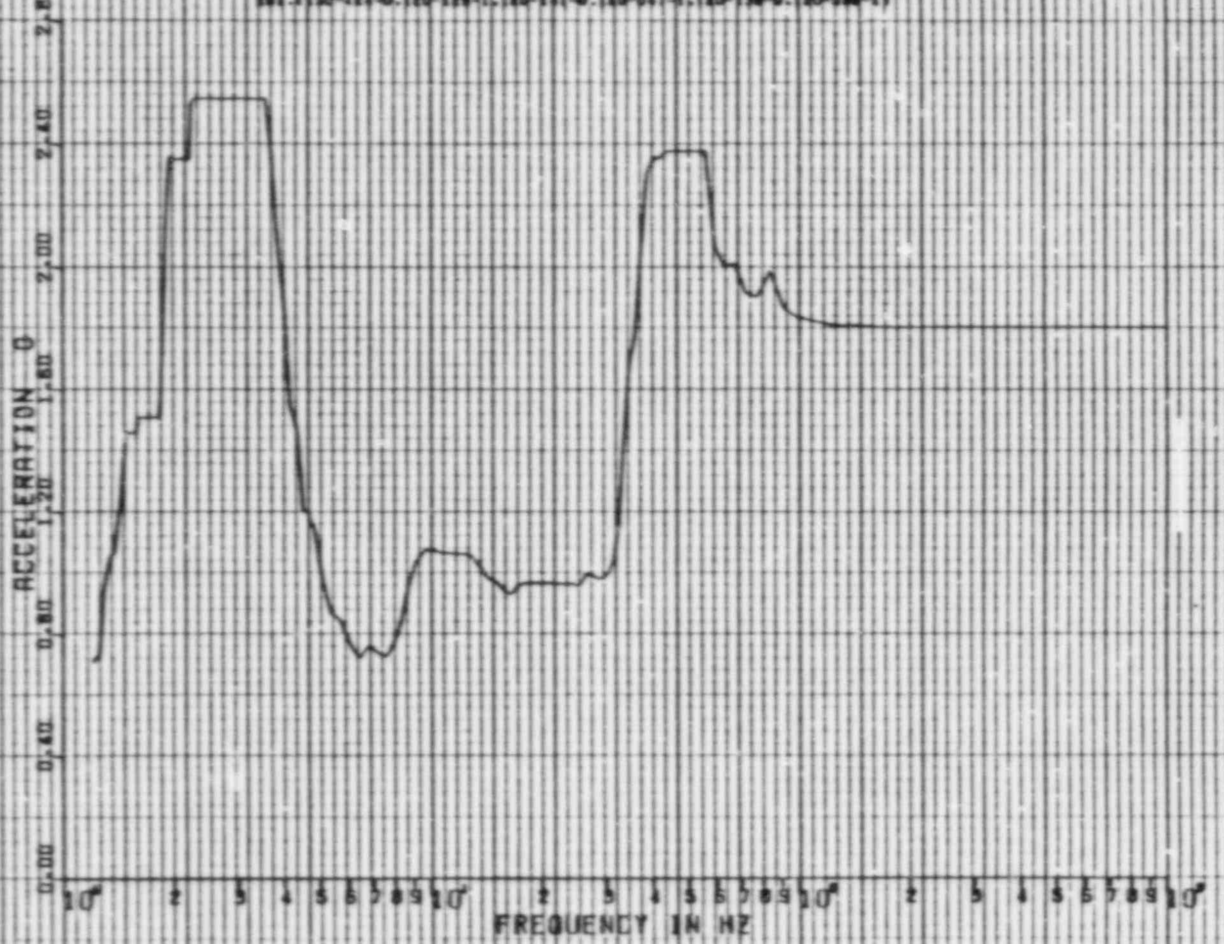
GULF STATES UTILITIES-RBS UNIT 1-CPLC122(D-NM(C)-GBE-1903 REV(2)

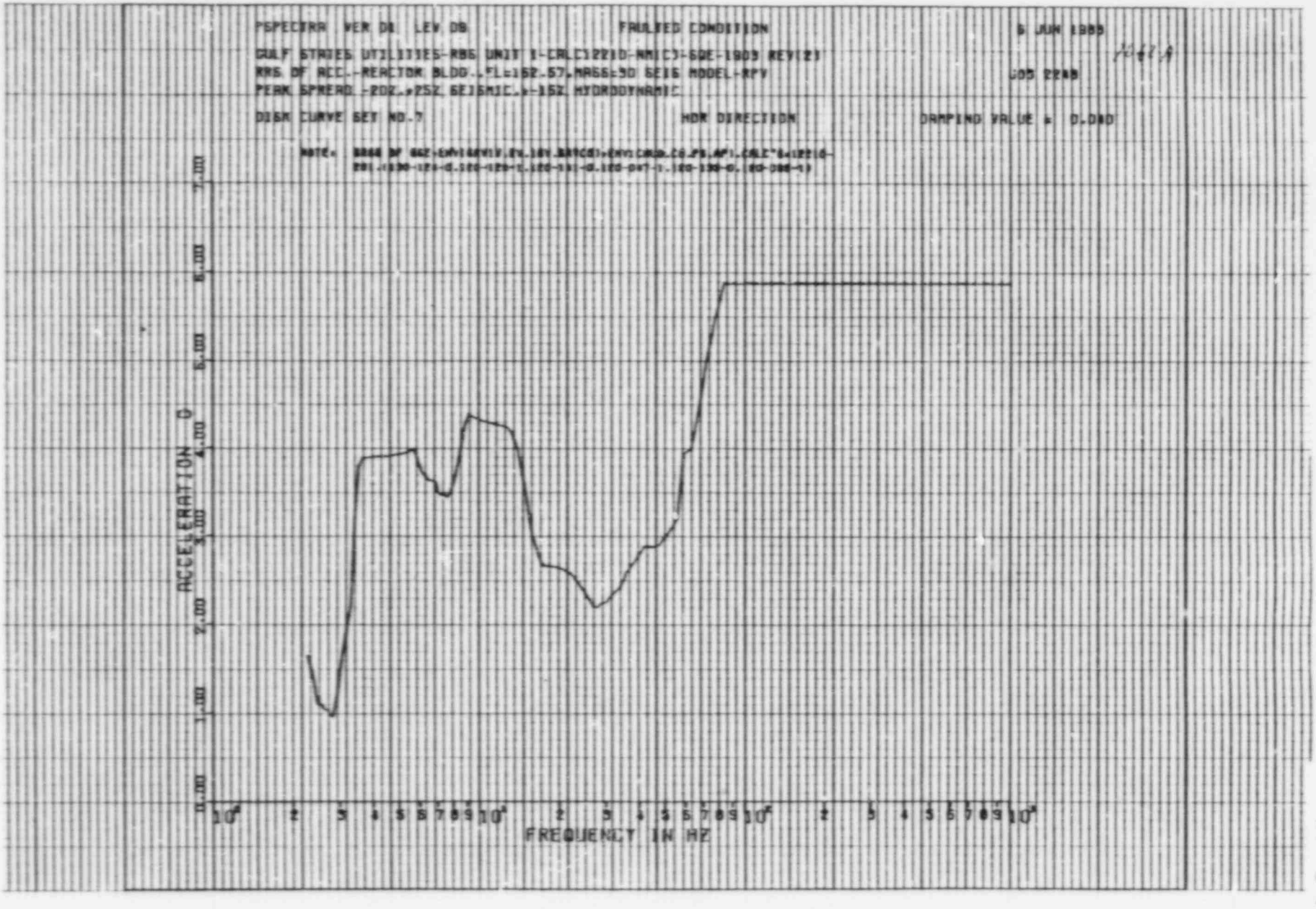
RRS OF ACC.-REACTOR BLDG.,EL=152.57,MASS=30 GEIS MODEL-BPY JOB 2296

PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC

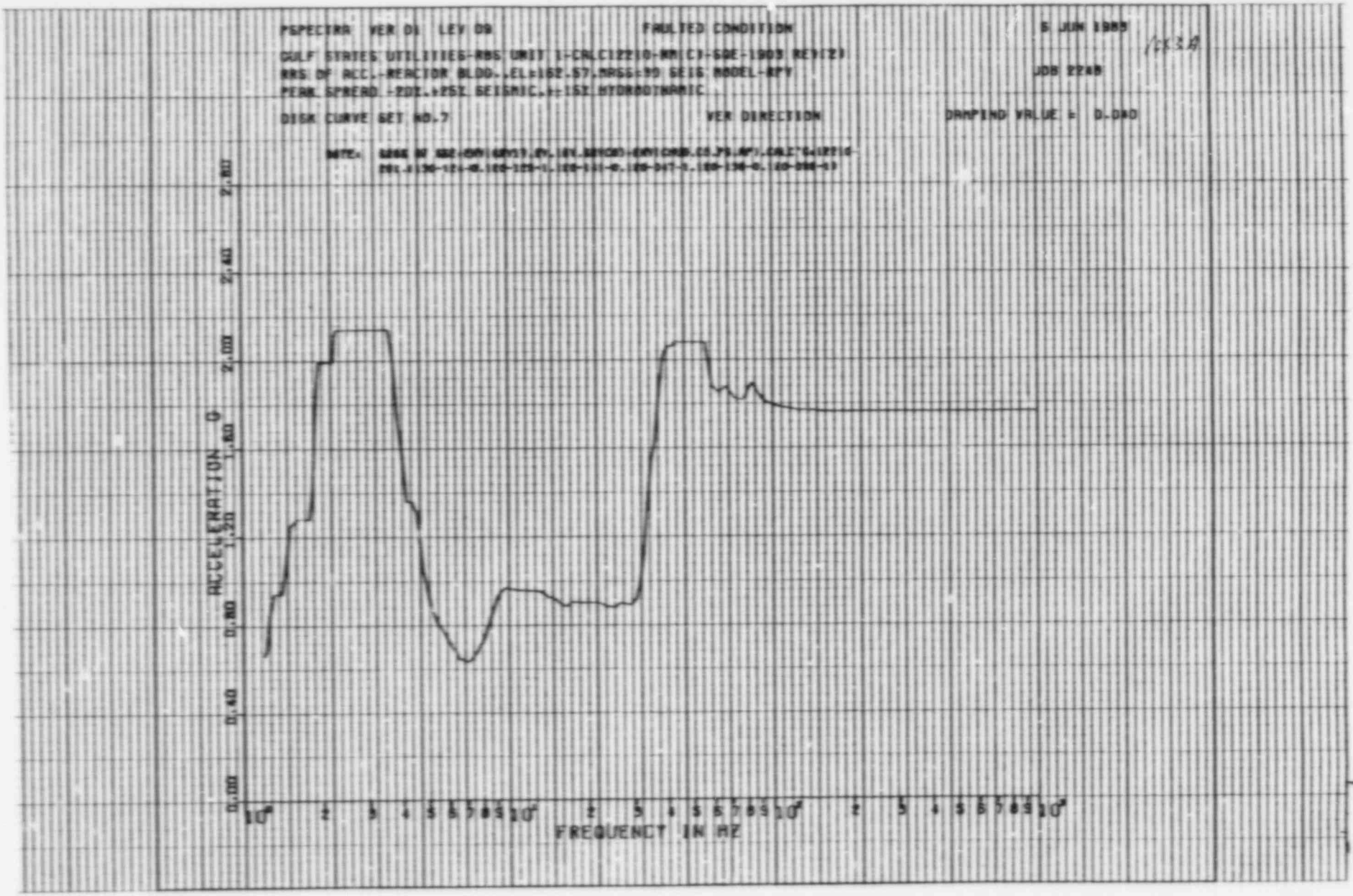
DISK CURVE SET NO.7 VER DIRECTION DAMPING VALUE = 0.050

NOTE: [illegible]



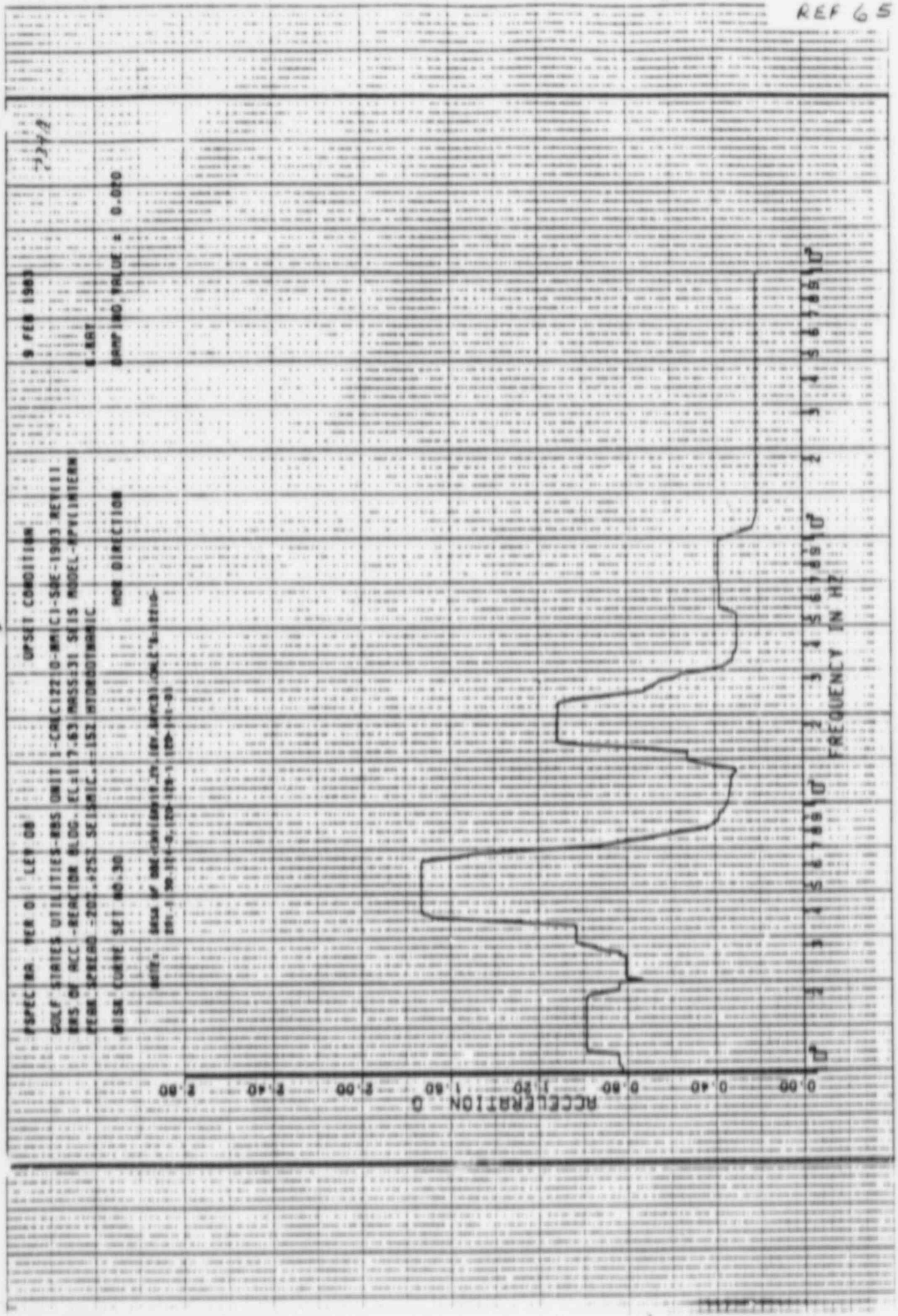

PSPECTRA VER 08 LEV 08 FAULTED CONDITION 6 JUN 1989
GULF STATES UTILITIES-RBS UNIT 1-CALC(2210-NMIC)-GDE-1903 REV(2)
RMS OF ACC.-REACTOR BLDG.-FL=(52.57,MAGE=3D GEIG MODEL-RPV
PEAK SPREAD.-20Z.=25Z GE)SMIC.)=152 HYDRODYNAMIC
DISK CURVE SET NO.7 HOR DIRECTION DAMPING VALUE = 0.080
ACCELERATION G
FREQUENCY IN HZ

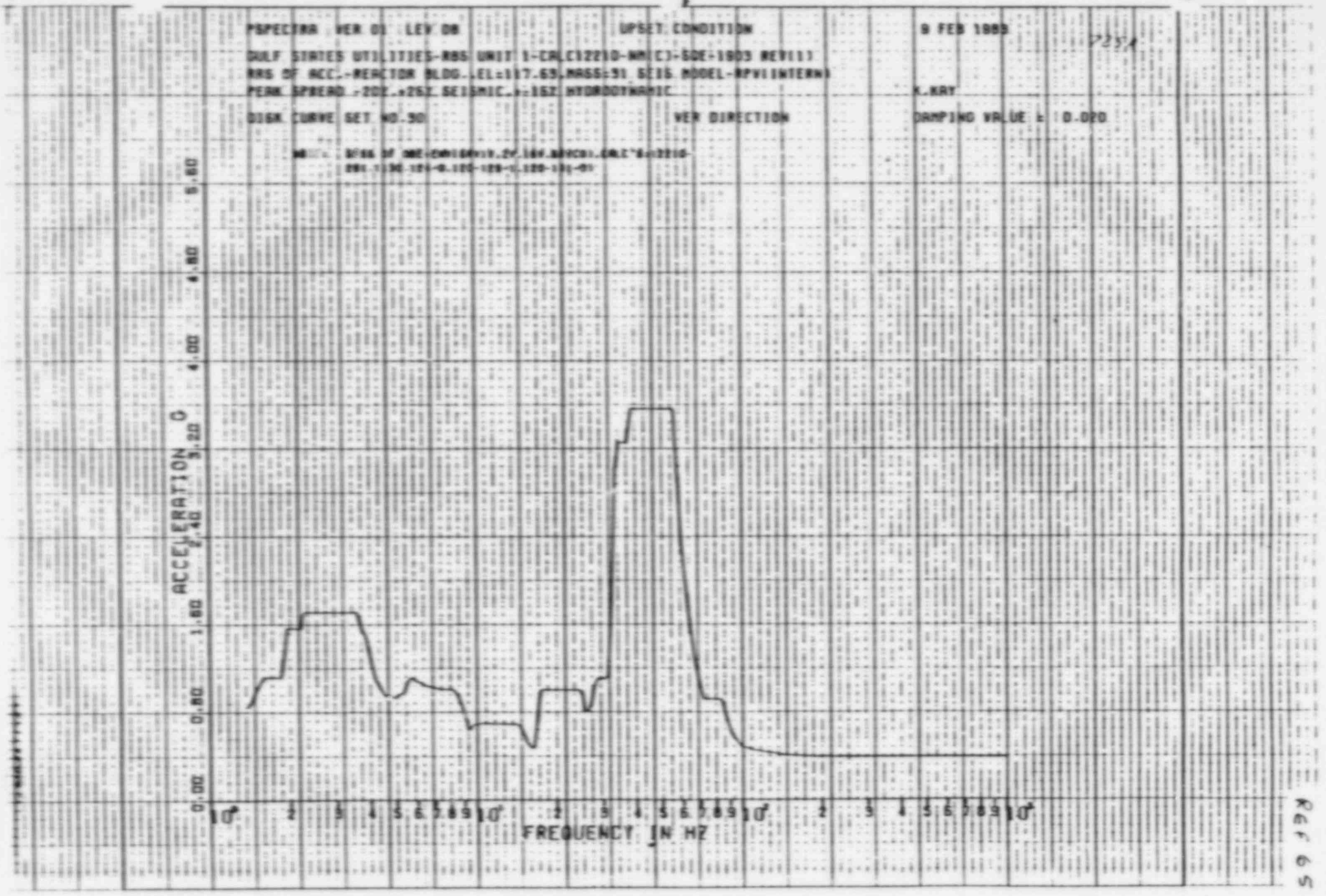
REF 64

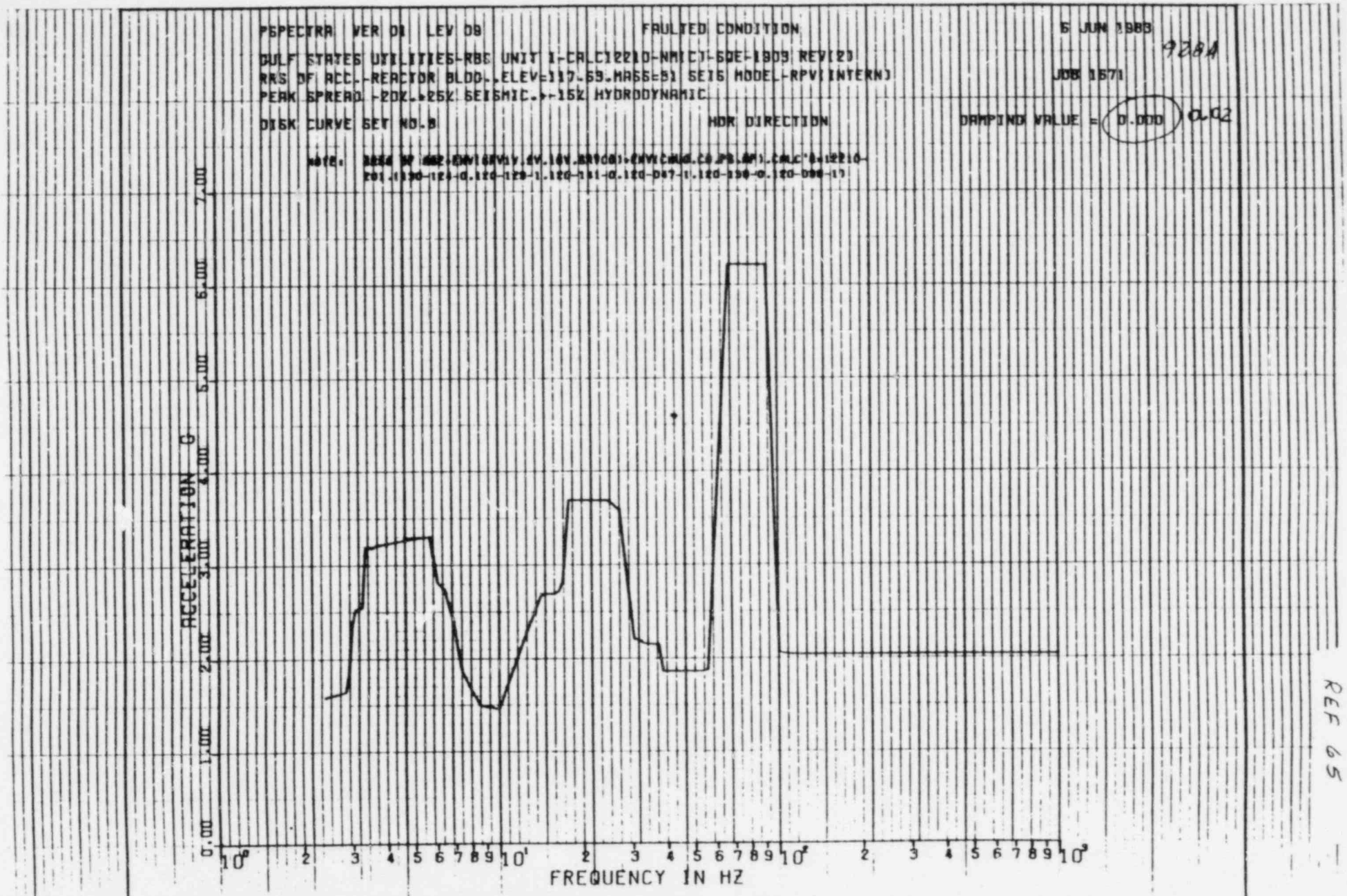

PSPECTRA VER 01 LEV 00
FAULTED CONDITION
6 JUN 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MR(C)-GSE-1903 RE)(2)
RMS OF ACC.-REACTOR BLDG.,EL=162.57,NRGS=99 SEIS MODEL-RPV
JOB 22AB
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
DISK CURVE SET NO.7
VER DIRECTION
DAMPING VALUE = 0.040
NOTE:
ACCELERATION g
FREQUENCY IN HZ

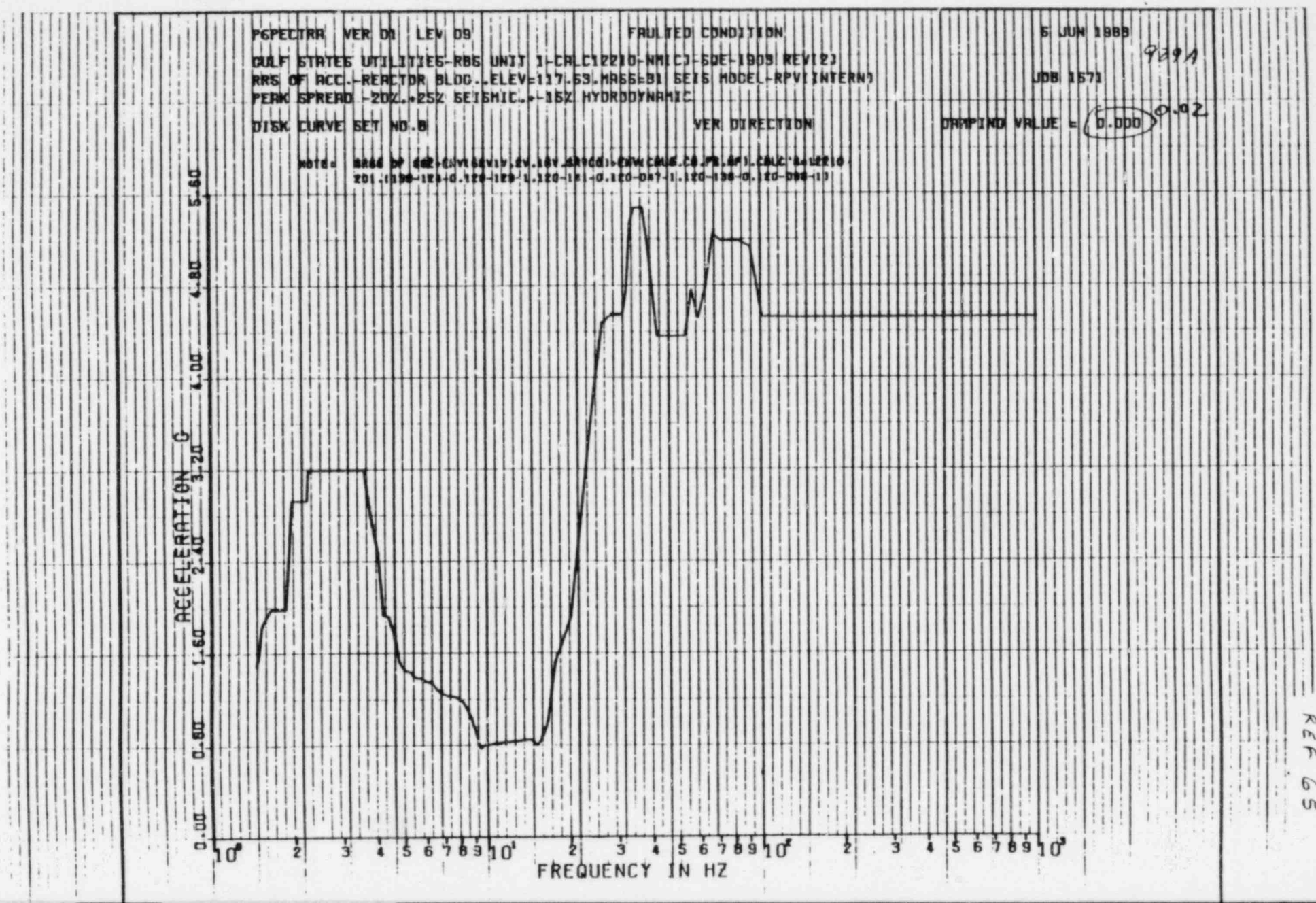
FREF 64

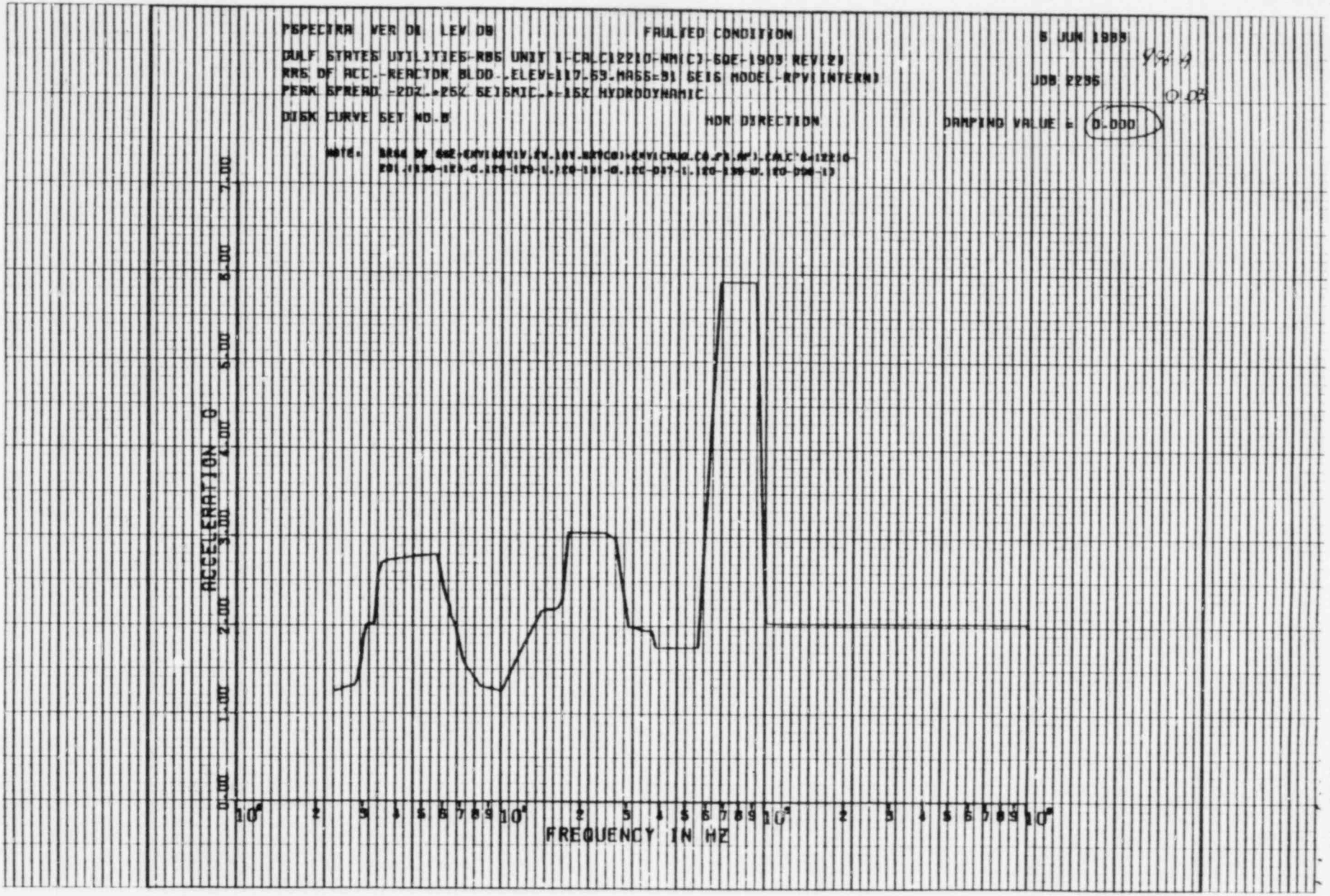
REF 65


PSPECTRA PER 01 LEV 08
GULF STATES UTILITIES-RBS UNIT 1-CA(C122)0-RM(C1-SSE-1903 REVIII)
ERS OF ACC -REACTOR BLDG- EL=117.63 MASS=31 SEIS MODEL-6PAC(MIERN
FERR SPREAD -202.+252 SEISMIC.+-1S2 HYDRODYNAMIC.
RISK CURVE SET 40.30
UPSET CONDITION
9 FEB 1983
0.020
HOR DIRECTION
FREQUENCY IN HZ
ACCELERATION - G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80

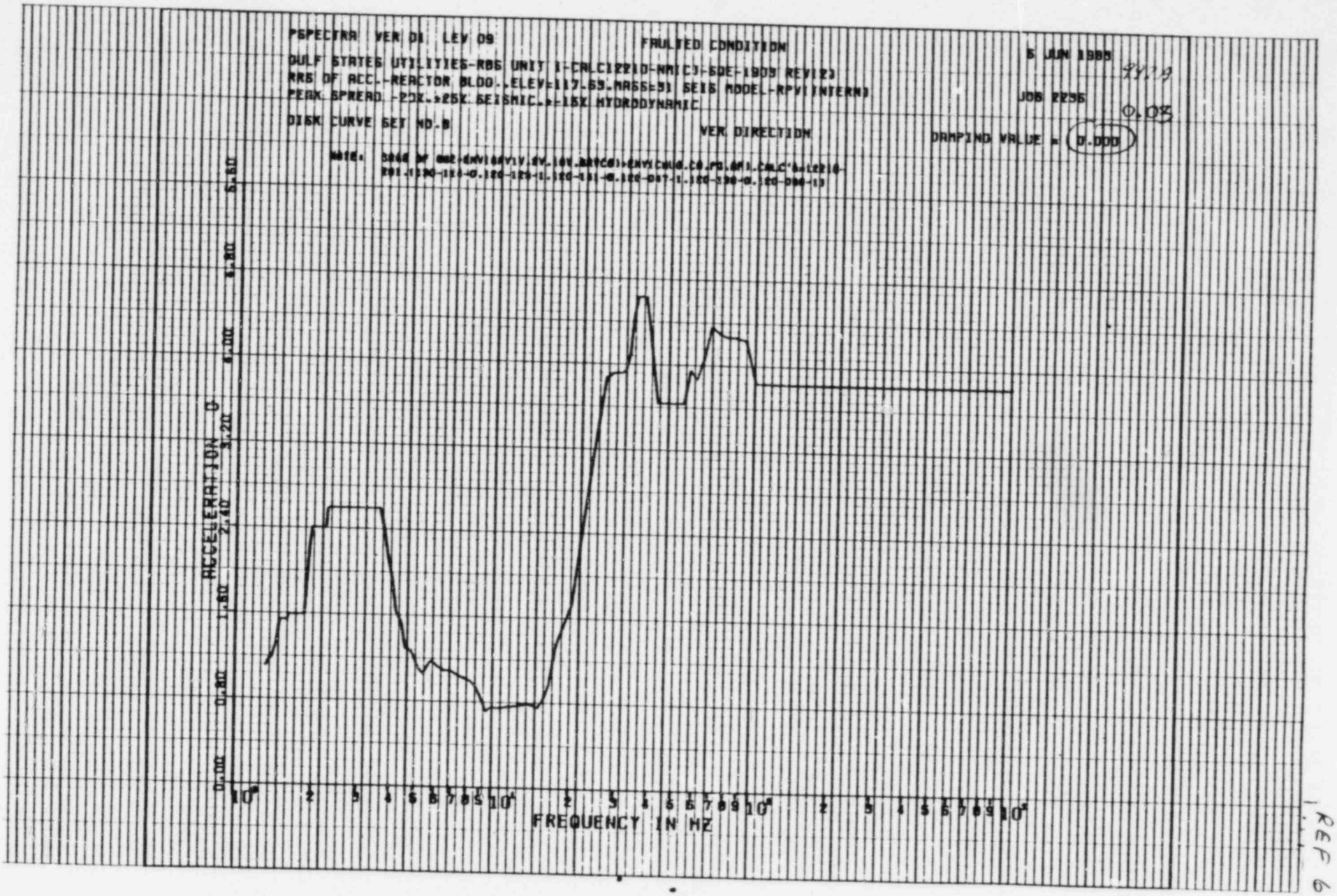

PSPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1989
GULF STATES UTILITIES-RBS UNIT 1-CALC(12210-NM(C)-SQE-1003 REV11)
RRS OF ACC.-REACTOR BLDG.,EL=117.69,MASS=91 SEIS MODEL-RPVINTERN)
PEAK SPREAD =20Z,+26Z SEISMIC,+=15Z HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.90
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.80
1.60
2.40
3.20
4.00
4.80
5.60
FREQUENCY IN HZ
REF 65


SPECTRA VER 01 LEV 08
FAULTED CONDITION
6 JUN 1988
GULF STATES UTILITIES-RBC UNIT 1-CALC12210-NMIC)-SQE-1803 REV(2)
JOB 1571
RRS OF ACC.-REACTOR BLDG.,ELEV=117.69.HAS6=51 SEIS MODEL-RPV(INTERN)
PEAK SPREAD -20%-+25% SEISMIC.+-15% HYDRODYNAMIC
DISK CURVE SET NO.8
HOR DIRECTION
DAMPING VALUE = 0.000
ACCELERATION G
0.00
1.00
2.00
3.00
4.00
5.00
6.00
7.00
FREQUENCY IN HZ

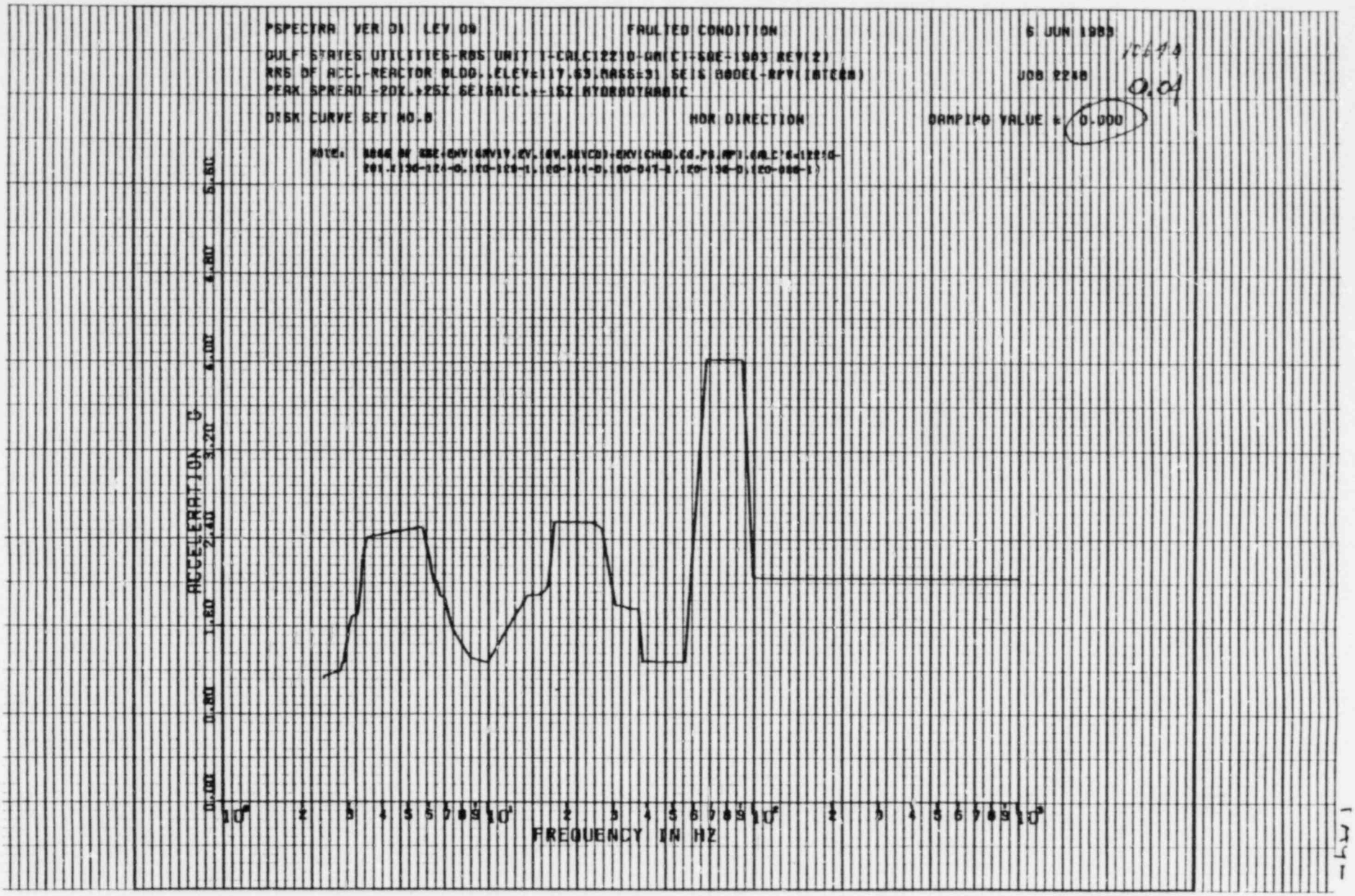

PSPECTRA VER 01 LEV 09
FAULTED CONDITION
5 JUN 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-SDE-1903 REV(2)
RRS OF ACC.-REACTOR BLDG.-ELEV=117.63.-MASS=B1 SEIS MODEL-RPV(INTERN)
JOB 1671
PEAK SPREAD -20%..+25% SEISMIC..+-15% HYDRODYNAMIC
DISK CURVE SET NO.8
VER DIRECTION
DAMPING VALUE = 0.000
ACCELERATION G
0.00
0.80
1.60
2.40
3.20
4.00
4.80
5.60
FREQUENCY IN HZ
REF 65


PSPECTRA VER 01 LEV 08 FAULTED CONDITION 6 JUN 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-GDE-1903 REV(2)
RBS OF ACC.-REACTOR BLDG. ELEV=117.69.-MASS=31 SEIS MODEL-RPV(INTERN)
PEAK SPREAD =20Z.=25Z SEISMIC.=.15Z HYDRODYNAMIC
JOB 2236
DISK CURVE SET NO.8
HOR DIRECTION
DAMPING VALUE = 0.000
NOTE:
ACCELERATION G
0.00
1.00
2.00
3.00
4.00
5.00
6.00
7.00
FREQUENCY IN HZ

REF 65


PSPECTRR VER 01 LEV 09
FAULTED CONDITION
5 JUN 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SDE-1903 REV(2)
RRS OF ACC.-REACTOR BLDG.,ELEV=117.69,NRGS=31 SEIS MODEL-RPV(INTERN)
JOB 2256
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
DISK CURVE SET NO.8
VER DIRECTION
DAMPING VALUE = 0.000
ACCELERATION G
0.00
0.80
1.60
2.40
3.20
4.00
4.80
5.60
FREQUENCY IN HZ

REF 65


PSPECTRA VER 01 LEV 09
FAULTED CONDITION
6 JUN 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-GM(C1-SSE-1983 REV(2)
RRS OF ACC.-REACTOR BLDG.,ELEV=117.69,MASS=31 SEIS MODEL-RPV(BTCRB)
JOB 2248
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
DESN CURVE SET NO.8
HOR DIRECTION
DAMPED VALUE = 0.000
ACCELERATION G
FREQUENCY IN HZ

REF 65

PSPECTRA VER 01 LEV 09 FAULTED CONDITION 6 JUN 1983

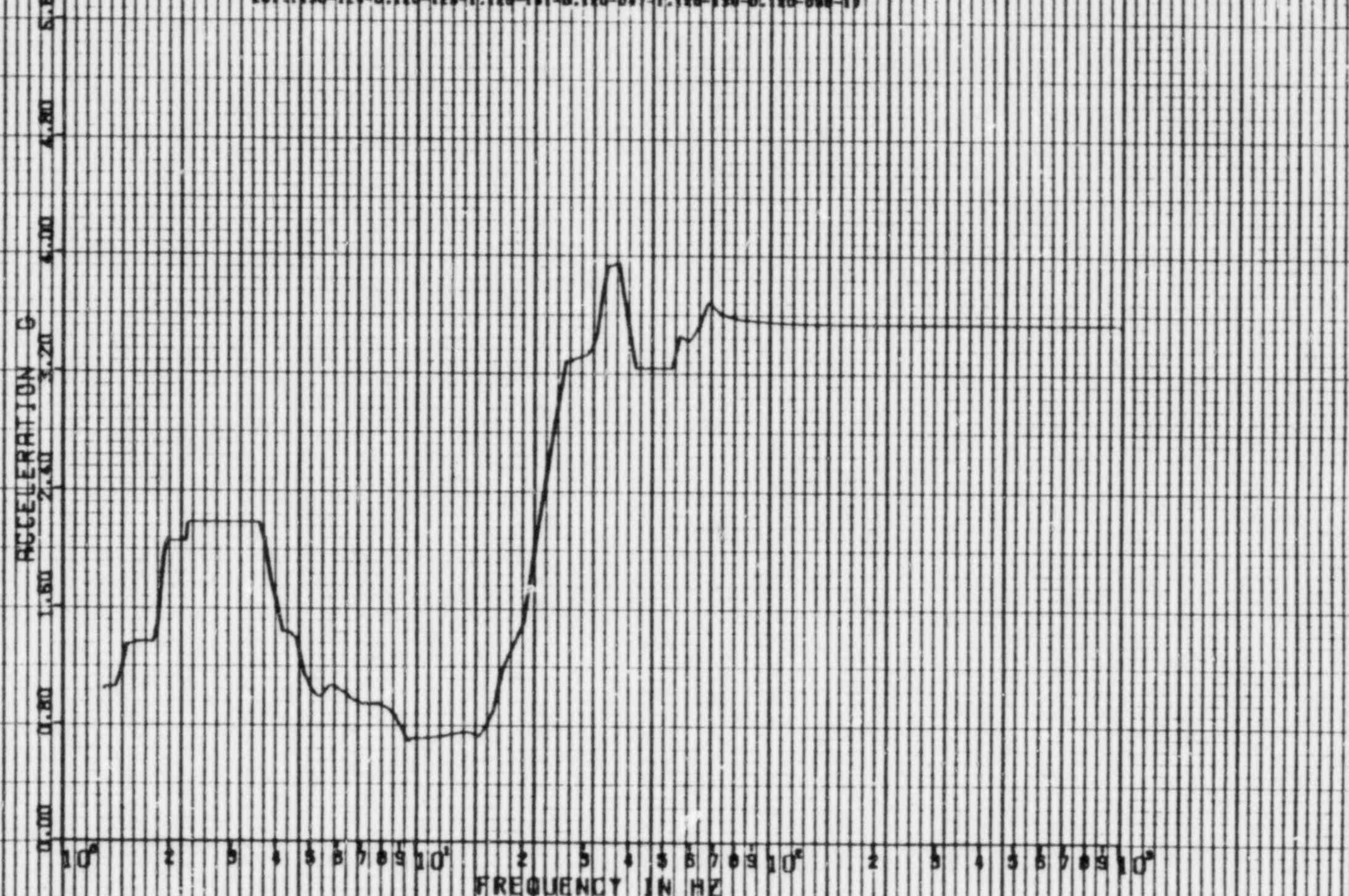
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(2)

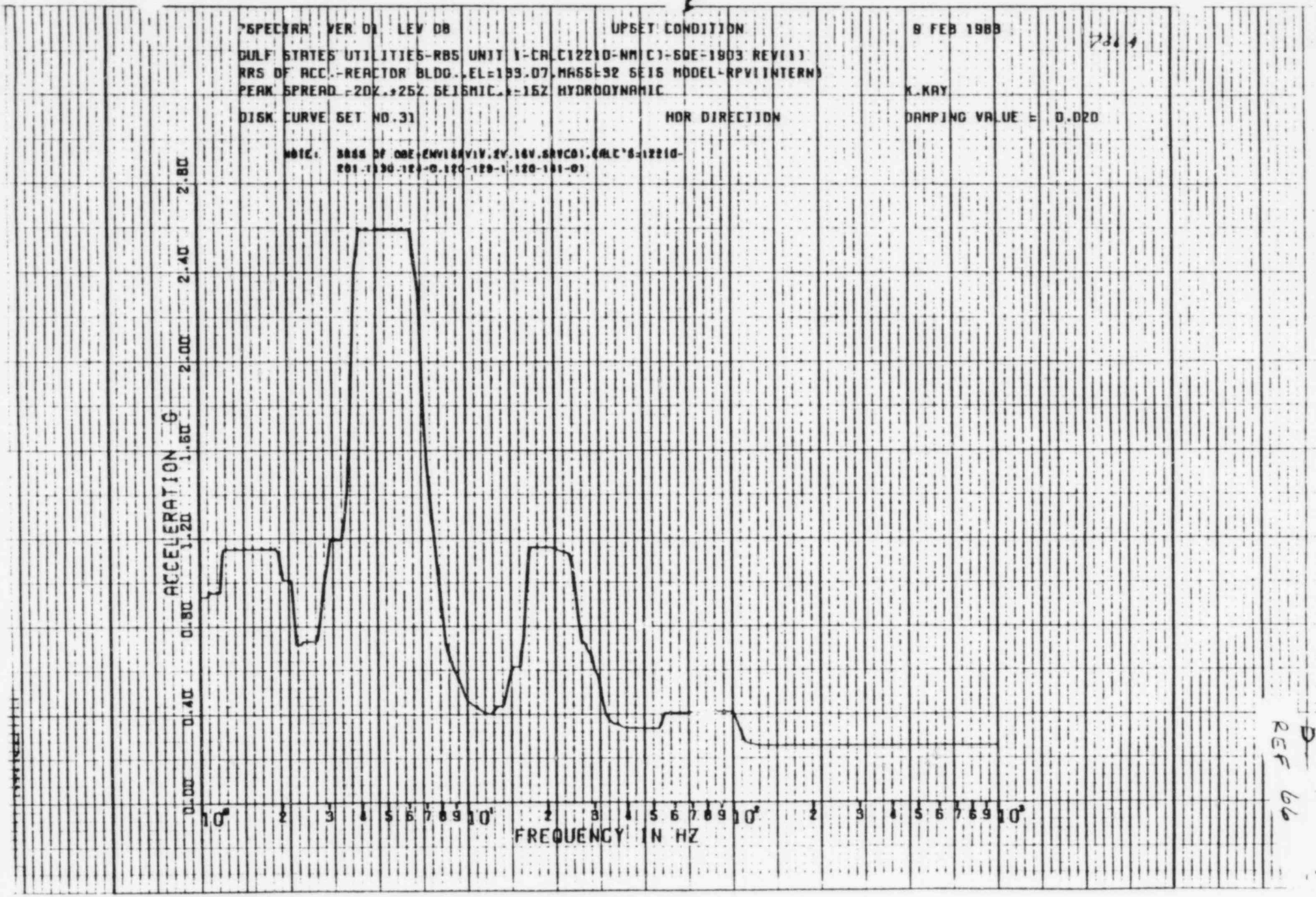
RRS OF ACC.-REACTOR BLDG.,ELEV=117.69,MASS=31 SEIS MODEL-RPV(INTERN) JOB 2248

PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC

DISK CURVE SET NO.8 VER DIRECTION DAMPING VALUE = 0.000 0.04

NOTE:




?SPECTRA VER 01 LEV 08 UPSET CONDITION 9 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=133.07 MASS=32 SEIS MODEL-RPV(INTERN)
PEAK SPREAD =20Z.=25Z SEISMIC =15Z HYDRODYNAMIC K.KAY
DISK CURVE SET NO.31 HOR DIRECTION DAMPING VALUE = 0.020
NOTE: BASE OF QSE-ENVIRAV(V.2V.16V.SRVC01).CALC'S=12210-
201.(130.12+0.120-129-1.120-131-0)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
10 2 3 4 5 6 7 8 9 10 2 3 4 5 6 7 8 9 10 2 3 4 5 6 7 8 9 10
FREQUENCY IN HZ

SPECTRA VER 01 LEV 08 UPSET CONDITION 9 FEB 1983

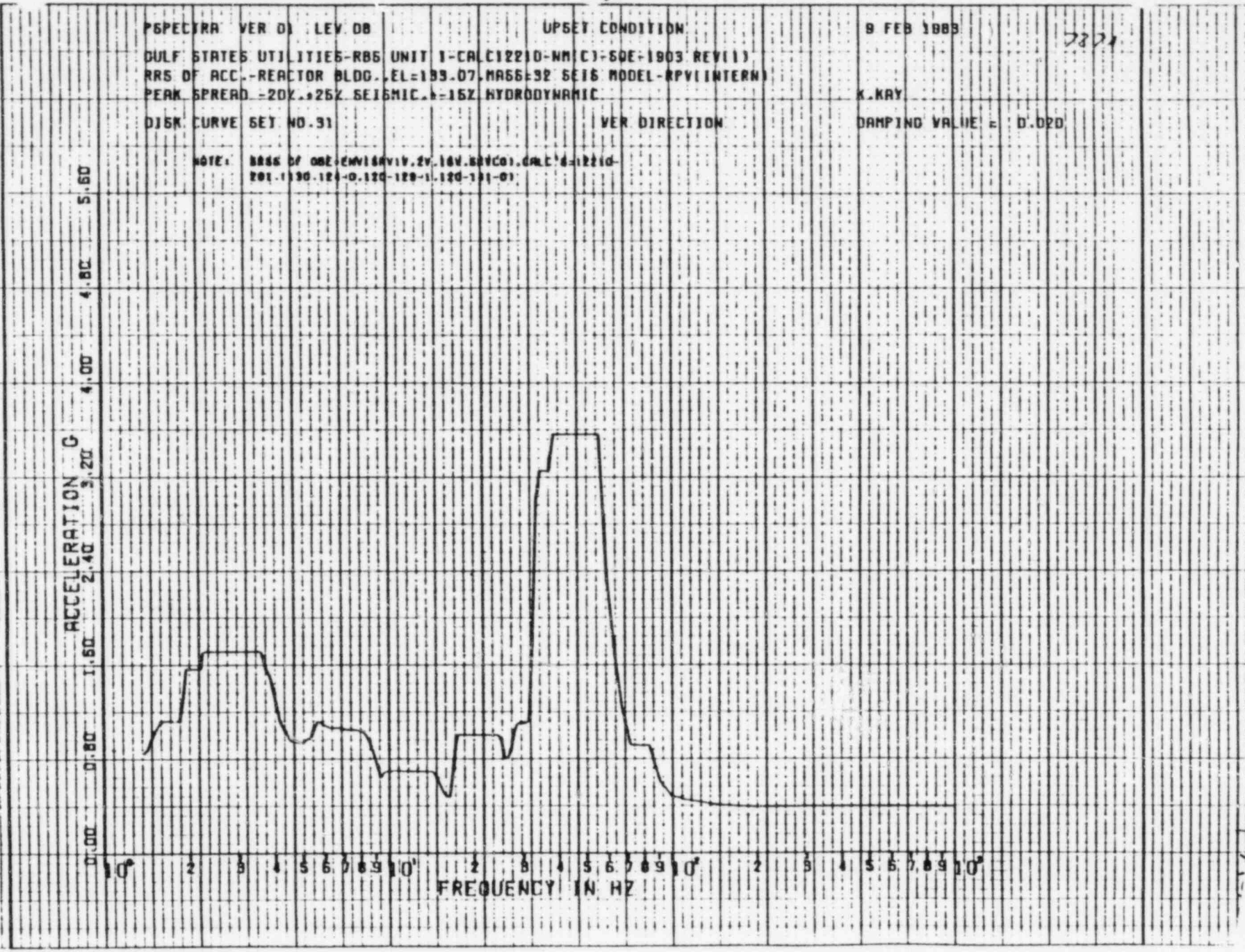
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)

RRS OF ACC.-REACTOR BLDG., EL=133.07, MASS=32 SEIS MODEL-RPV(INTERN)

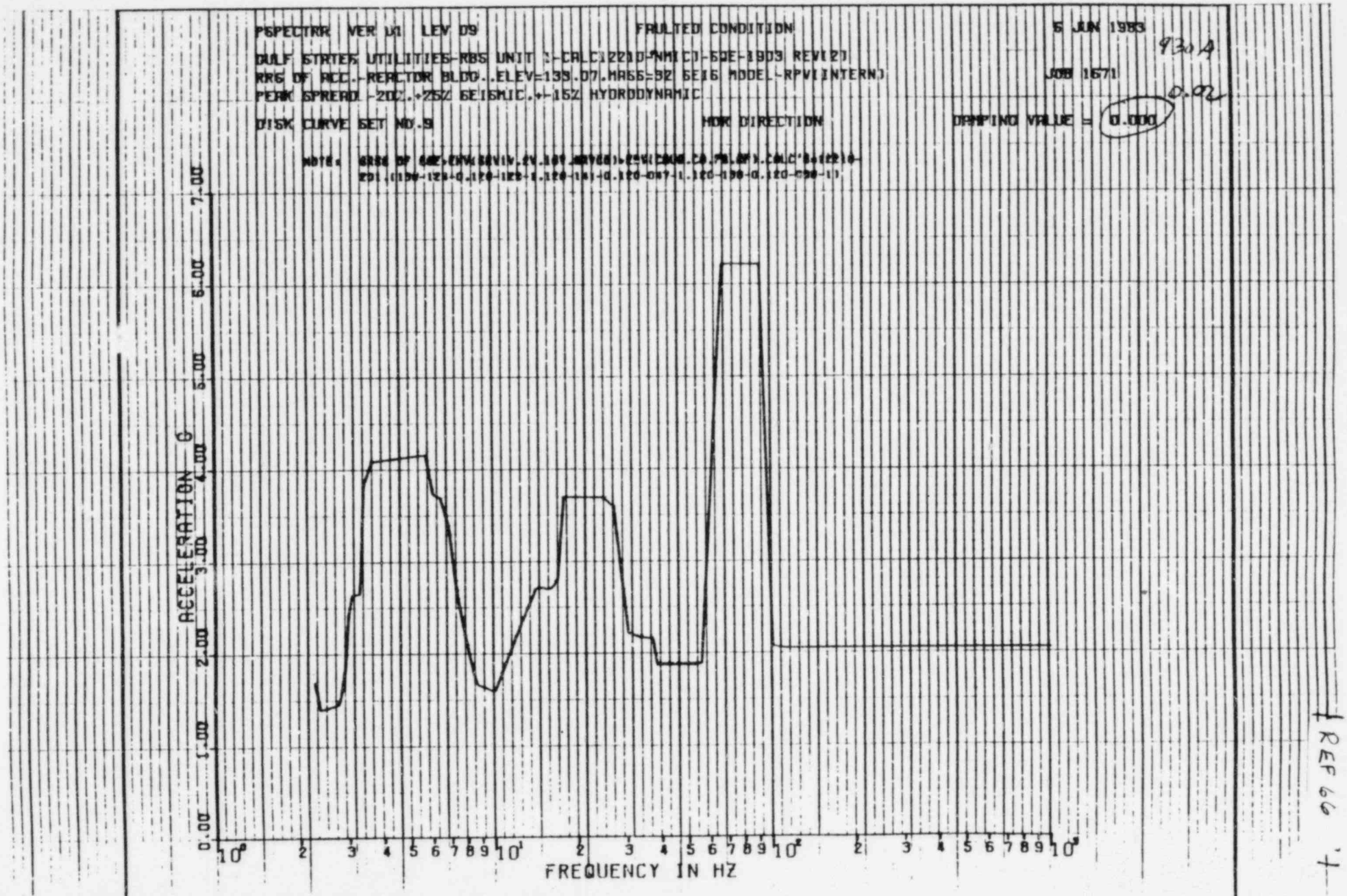
PEAK SPREAD =20%,+25% SEISMIC,+-15% HYDRODYNAMIC K.KAY

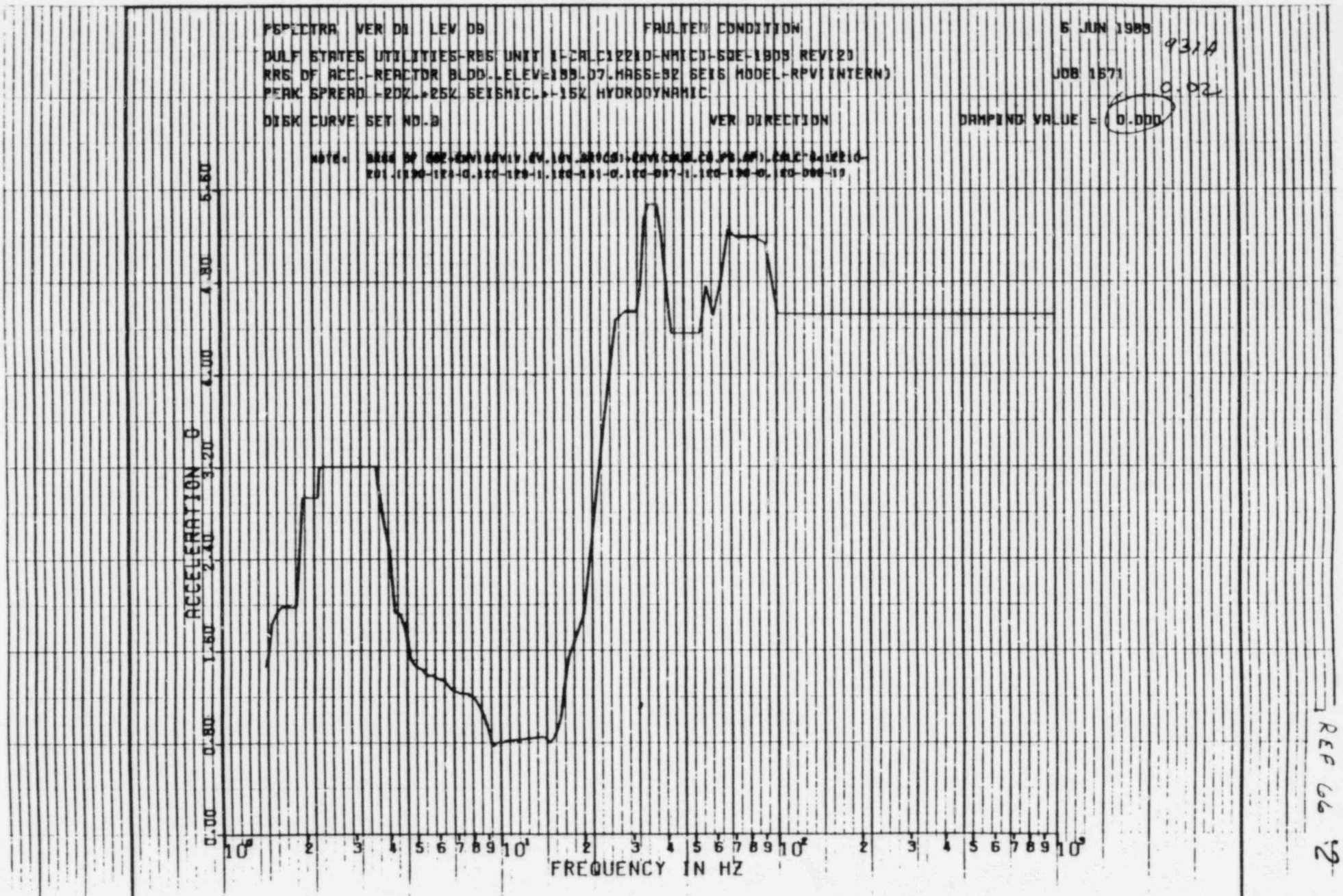
DISK CURVE SET NO.31 VER DIRECTION DAMPING VALUE = 0.020

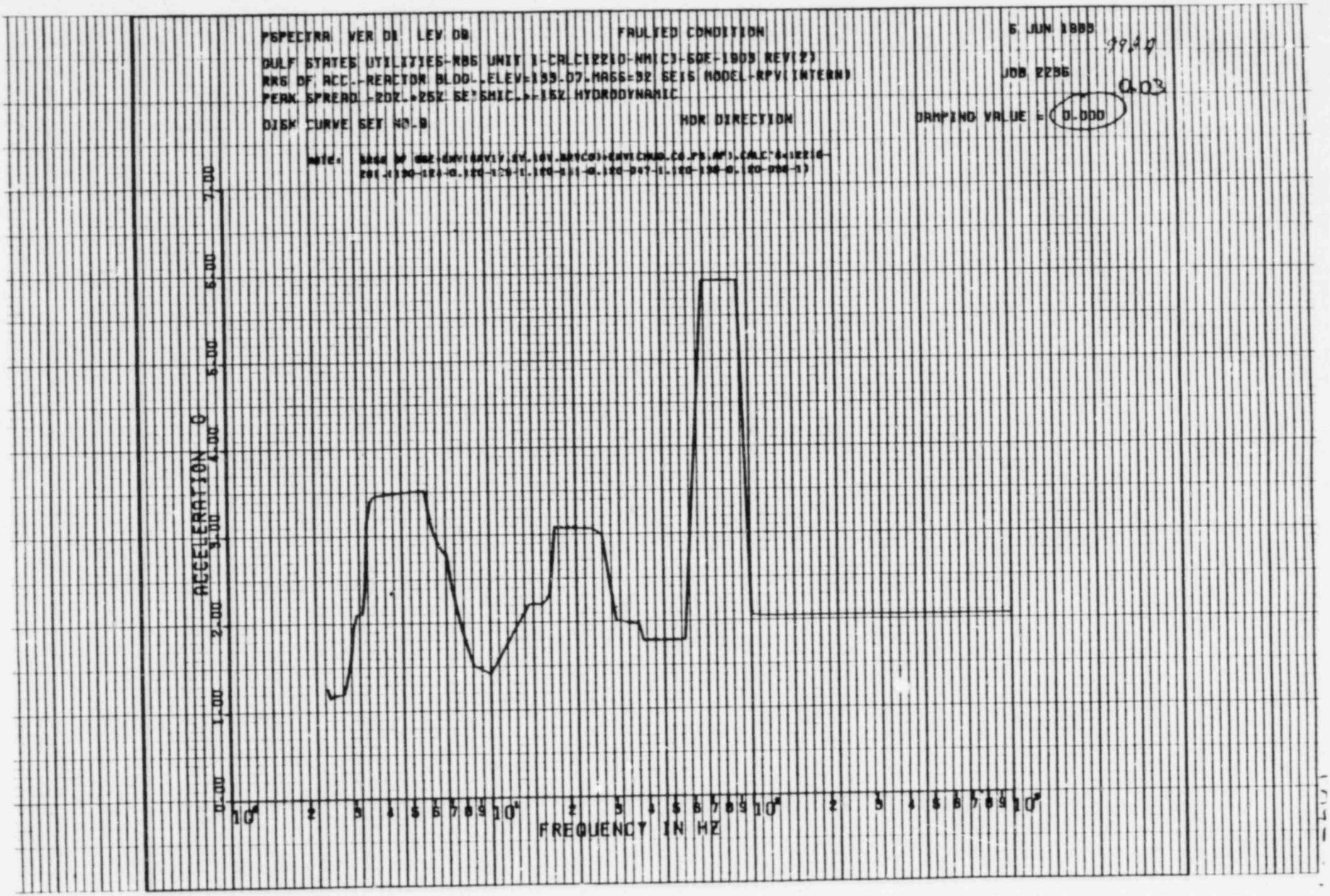
NOTE: BASE OF OBE-ENVISRV(V,2V,1&V,SRVCO).CALC'D=12210-201.(190,124-0,120-129-1,120-131-0)



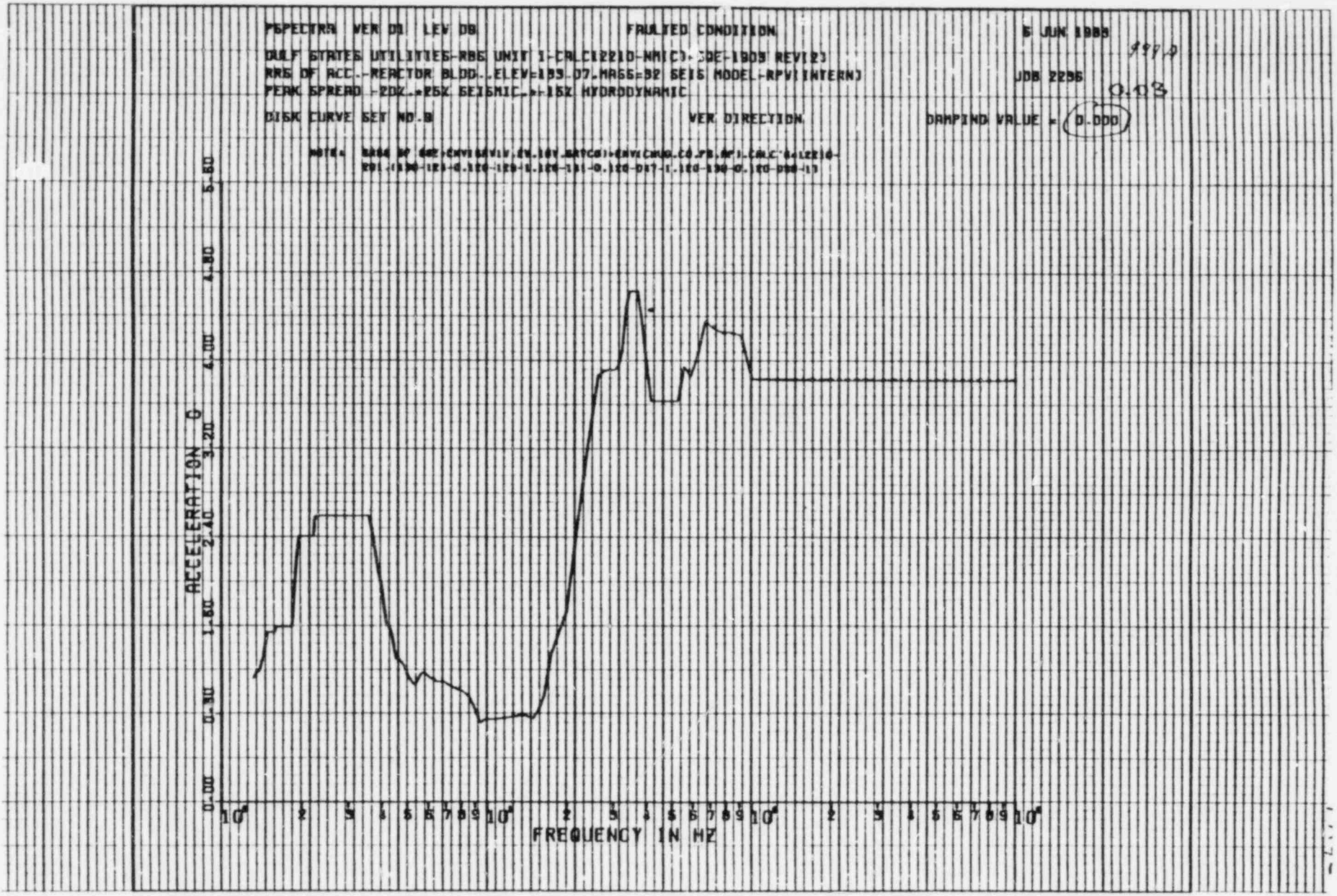
REF 66

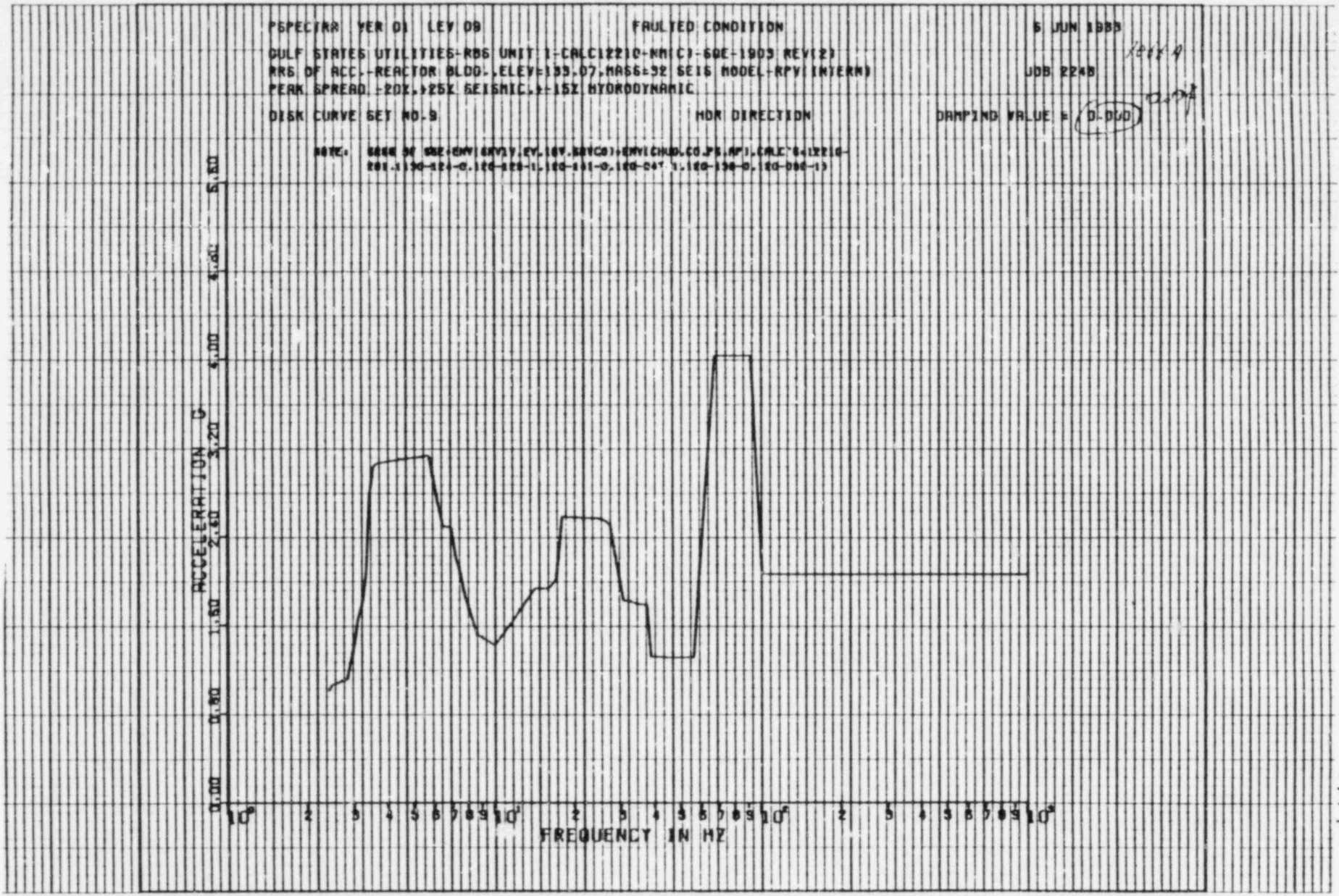

PSPECTRR VER 01 LEV 09
FAULTED CONDITION
6 JUN 1983
GULF STATES UTILITIES-RBS UNIT 2-CALC12210-DYNMIC-002E-1003 REV(2)
JOB 1671
RRS OF ACC.-REACTOR BLDG..ELEV=135.07.HRZ=3% SE15 MODEL-RPV(INTERN)
PEAK SPREAD -20%..+25% SEISMIC..+-15% HYDRODYNAMIC
DISK CURVE SET NO.9
HOR DIRECTION
DAMPING VALUE = 0.000
ACCELERATION G
0.00
1.00
2.00
3.00
4.00
5.00
6.00
7.00
FREQUENCY IN HZ


SPECTRA VER 01 LEV 08
FAULTED CONDITION
6 JUN 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC-SDE-1003 REV(2)
RRS OF ACC.-REACTOR BLDG.-ELEV=100.07.MASS=02 SEIS MODEL-RPV(INTERN)
JOB 1671
PEAK SPREAD -20%-+25% SEISMIC-+-15% HYDRODYNAMIC
DISK CURVE SET NO.3
VER DIRECTION
DAMPING VALUE = 0.000
ACCELERATION G
0.00
0.80
1.60
2.40
3.20
4.00
4.80
5.60
FREQUENCY IN HZ
9314
0.02
REF 66


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
6 JUN 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-SQE-1003 REV(2)
JOB 2236
RBS OF RCC.-REACTOR BLDG.-ELEV=139.07.MASS=32 SEIS MODEL-RPV(INTERN)
PEAK SPREAD -20%.+25% SEISMIC.>+15% HYDRODYNAMIC
DISK CURVE SET NO-8
HOR DIRECTION
DAMPING VALUE = 0.000
ACCELERATION G
0.00
1.00
2.00
3.00
4.00
5.00
6.00
7.00
FREQUENCY IN HZ

REF 66


RESPECTRA VER 01 LEV 08 FAULTED CONDITION 6 JUN 1989
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-SDE-1909 REV(2)
RMS OF ACC.-REACTOR BLDG..ELEV=133.07.MASS=32 SEIS MODEL-RPV(INTERN)
PEAK SPREAD -20%..+25% SEISMIC..+-15% HYDRODYNAMIC
DISK CURVE SET NO.8 VER DIRECTION
DAMPING VALUE = 0.000
ACCELERATION G
0.00
0.80
1.60
2.40
3.20
4.00
4.80
5.60
FREQUENCY IN HZ


PSPECTRR VER 01 LEV 08
FAULTED CONDITION
6 JUN 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-60E-1903 REV(2)
RRS OF ACC.-REACTOR BLDG.,ELEV=133.07,MASS=32 SEIS MODEL-RPV(INTERN)
JOB 2248
PEAK SPREAD +20%,+25% SEISMIC,+-15% HYDRODYNAMIC
DISK CURVE SET NO.9
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE:
ACCELERATION G
5.60
4.80
4.00
3.20
2.40
1.60
0.80
0.00
FREQUENCY IN HZ

REF 66
PAGE

PSPECTRA VER 01 LEV 09 FAULTED CONDITION 6 JUN 1985

GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SDE-1903 REV(2)

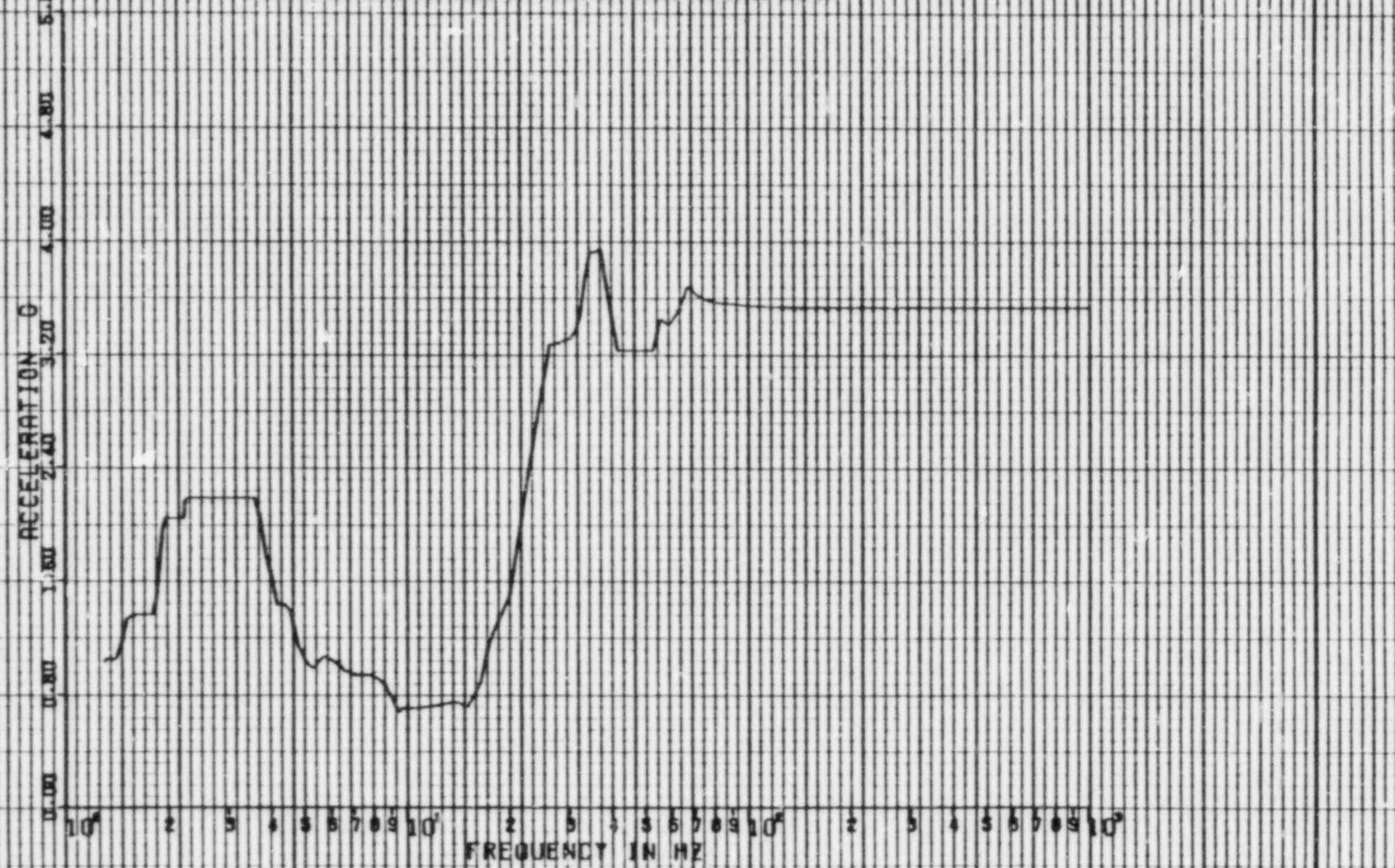
RRS OF ACC.-REACTOR BLDG.-ELEV=135.07,MASS=32 SEIS MODEL-RPV(INTERN) JOB 2248

PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC

DISK CURVE SET NO.8 VER DIRECTION DAMPING VALUE = 0.000

0.04

NOTE: [illegible]



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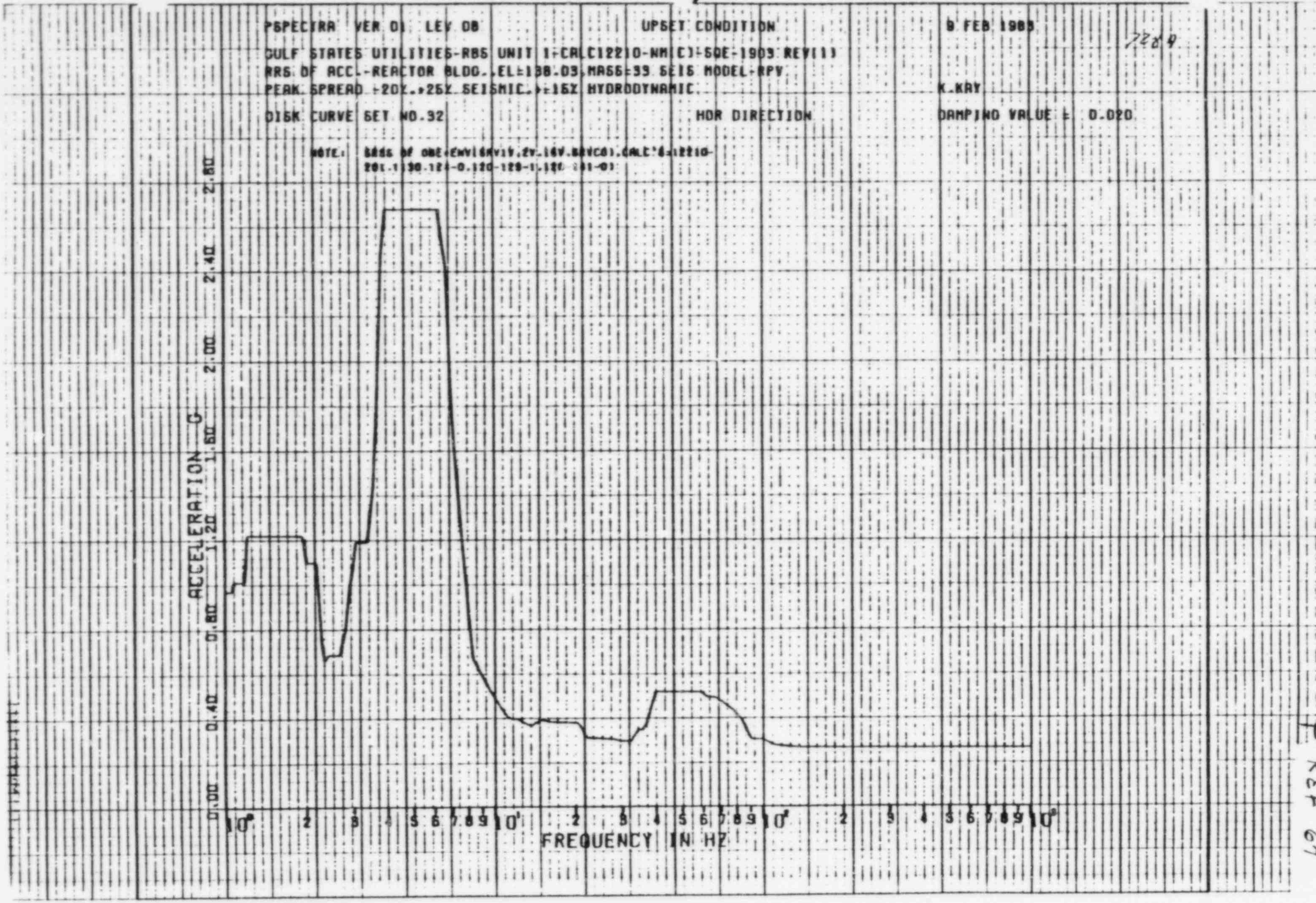
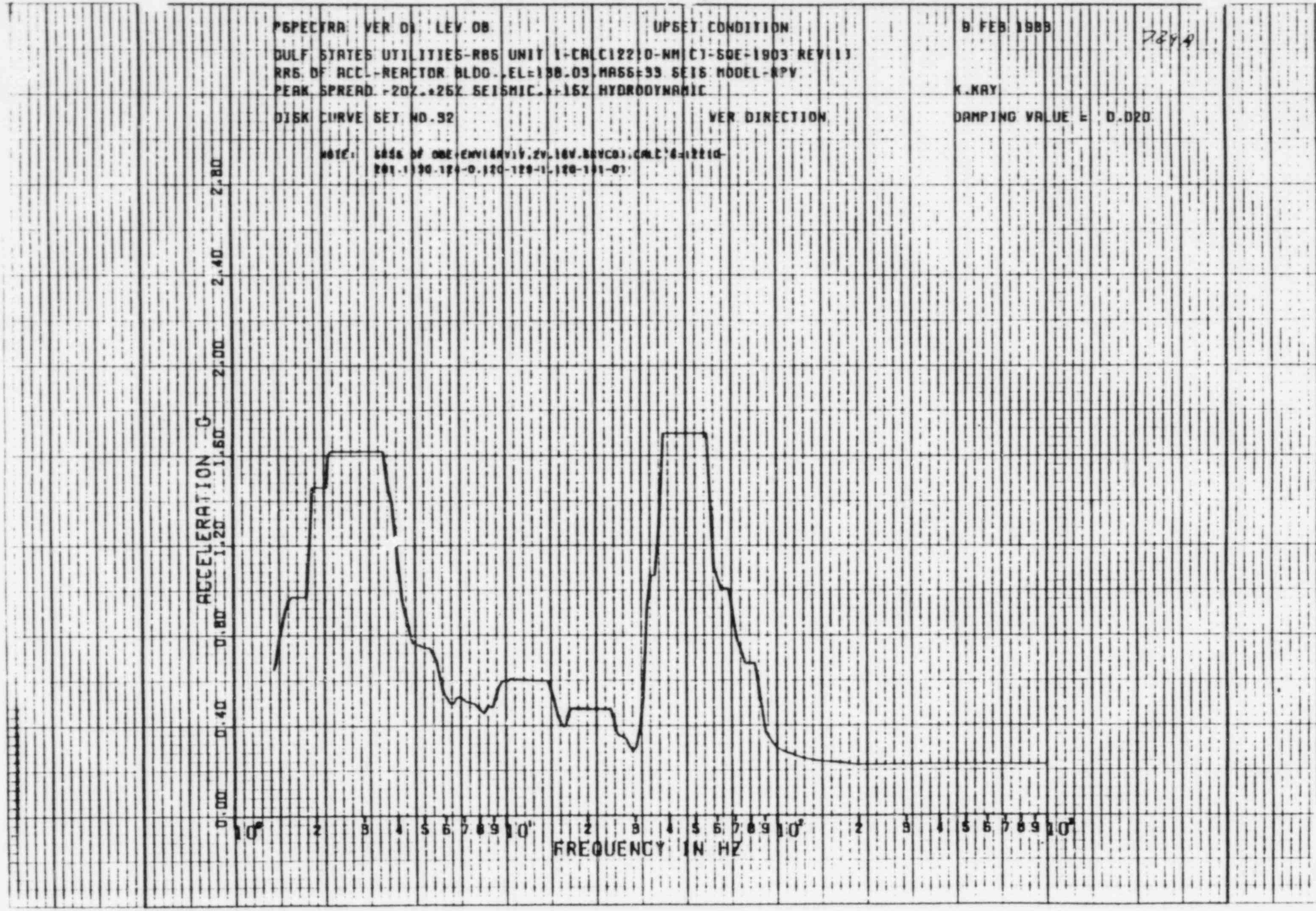
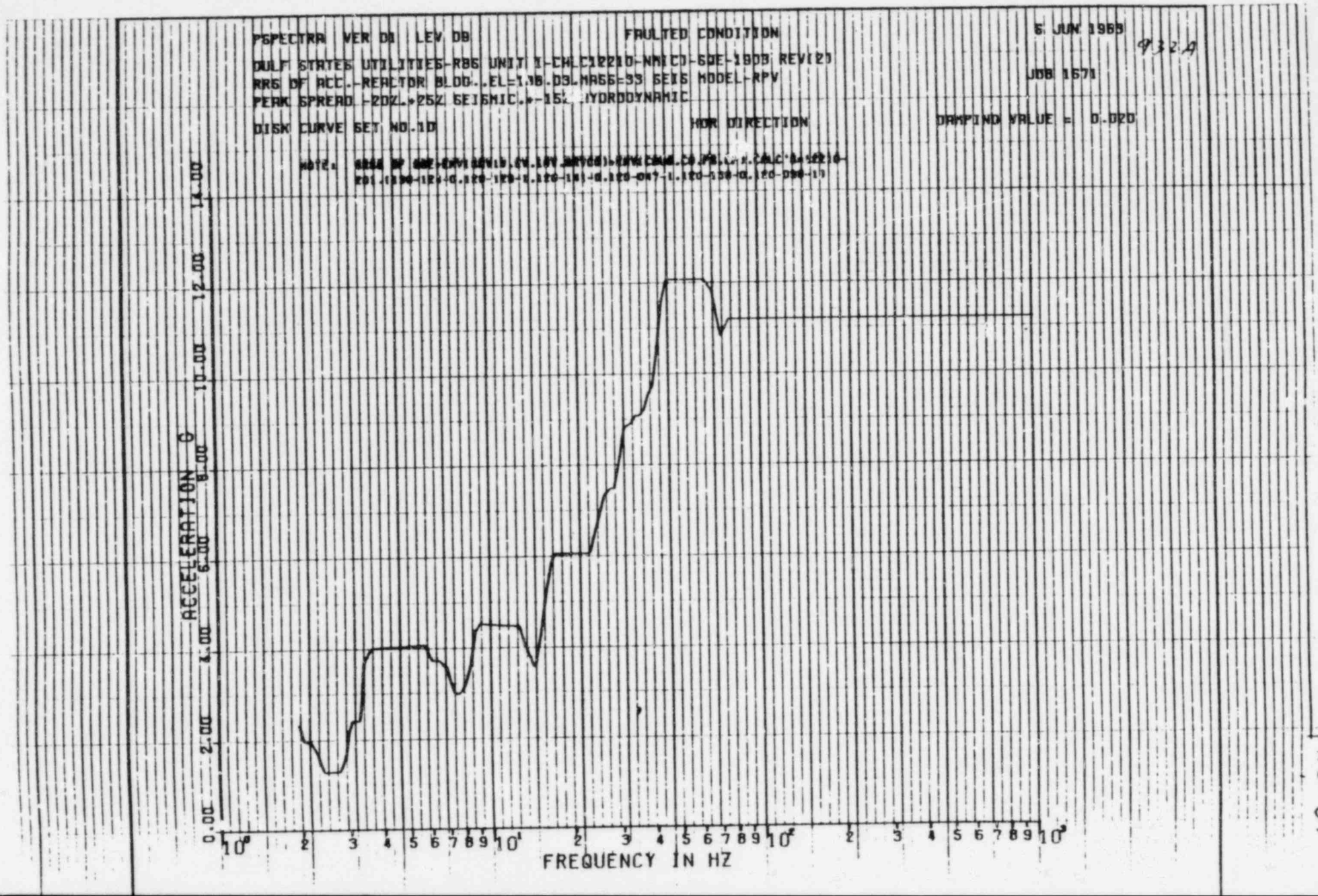
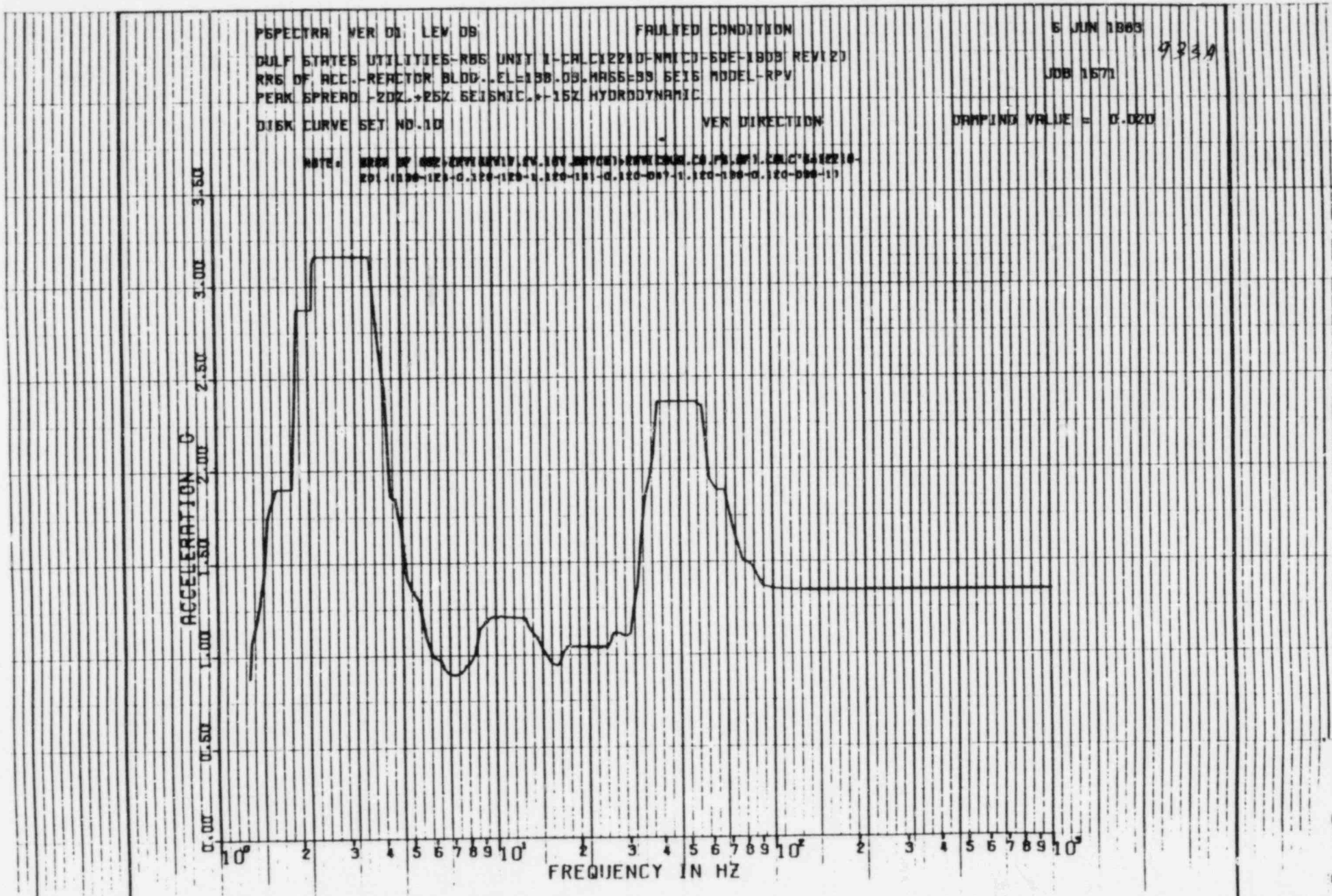

PSPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=138.03,MASS=33 SEIS MODEL-RPV
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.32
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ
F REF 67

REF 67

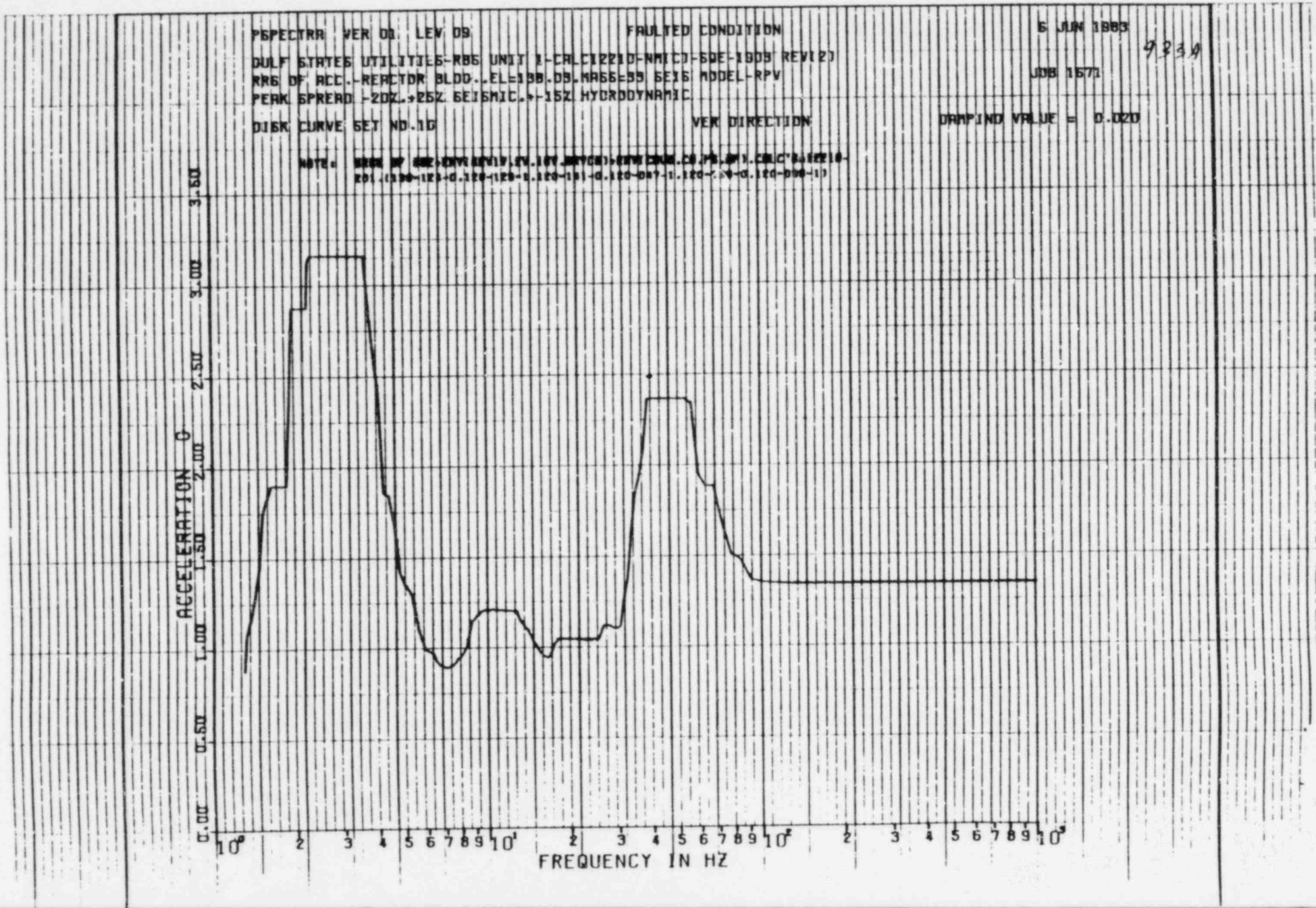


PSPECTRA VER 01 LEV 08
UPSET CONDITION
8 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC(12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC -REACTOR BLDG.,EL=138.03,MASS=33 SEIS MODEL-RPV
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.32
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

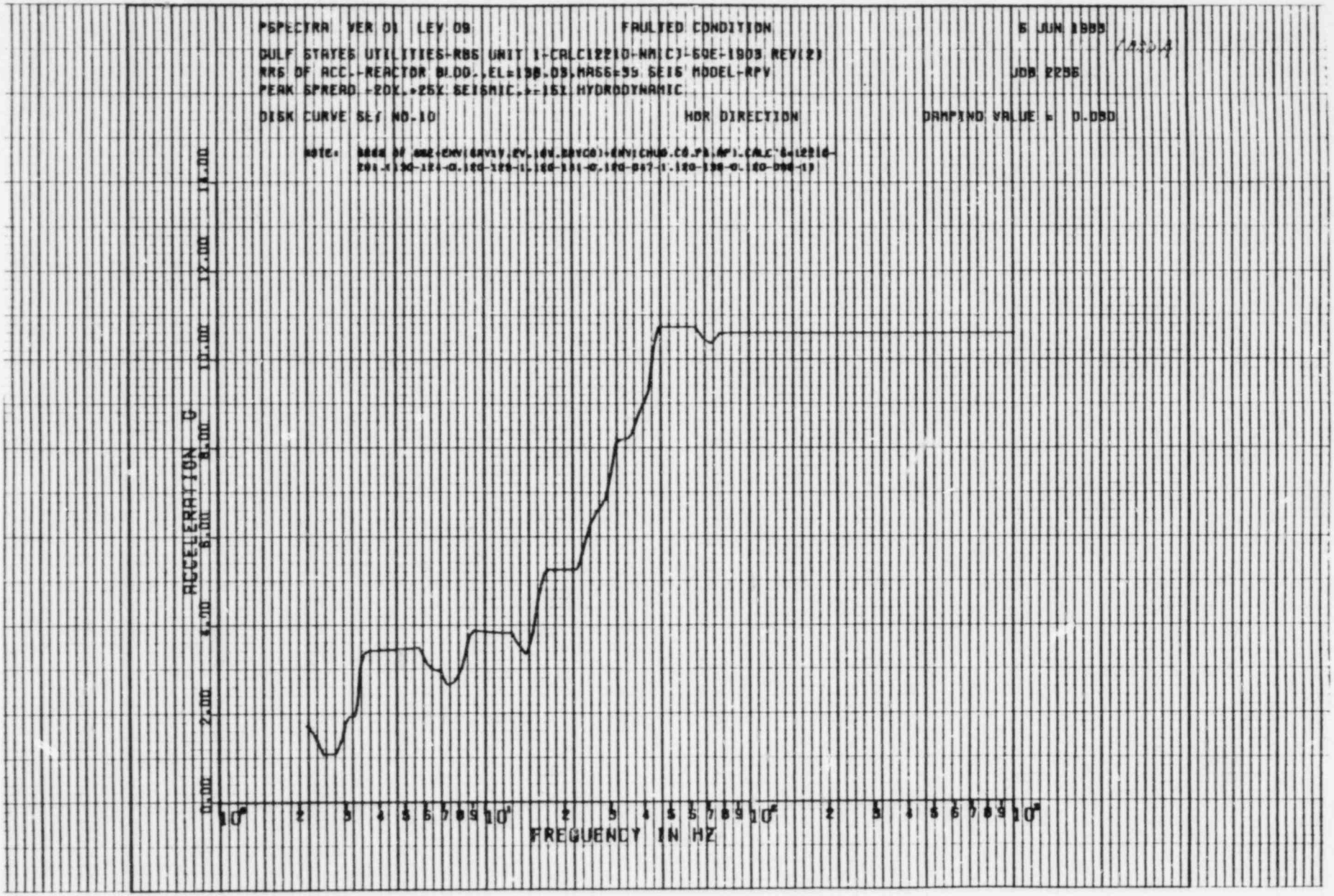

PSPECTRA VER 08 LEV 08
FAULTED CONDITION
6 JUN 1985
9329
GULF STATES UTILITIES-RBS UNIT 1-CH(C12210-NMCO-60E-1803 REV(2)
JOB 1671
RRS OF ACC.-REACTOR BLDG. EL=1.18.03 MASS=33 SEIS MODEL-RPV
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
DISK CURVE SET NO.10
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
2.00
4.00
6.00
8.00
10.00
12.00
14.00
FREQUENCY IN HZ
REF 67


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
6 JUN 1983
9330
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMICD-SQE-1B08 REV12
JOB 1671
RBS OF ACC.-REACTOR BLDG.-EL=138.00,MASS=33 SEIS MODEL-RPV
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
DISK CURVE SET NO.10
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ

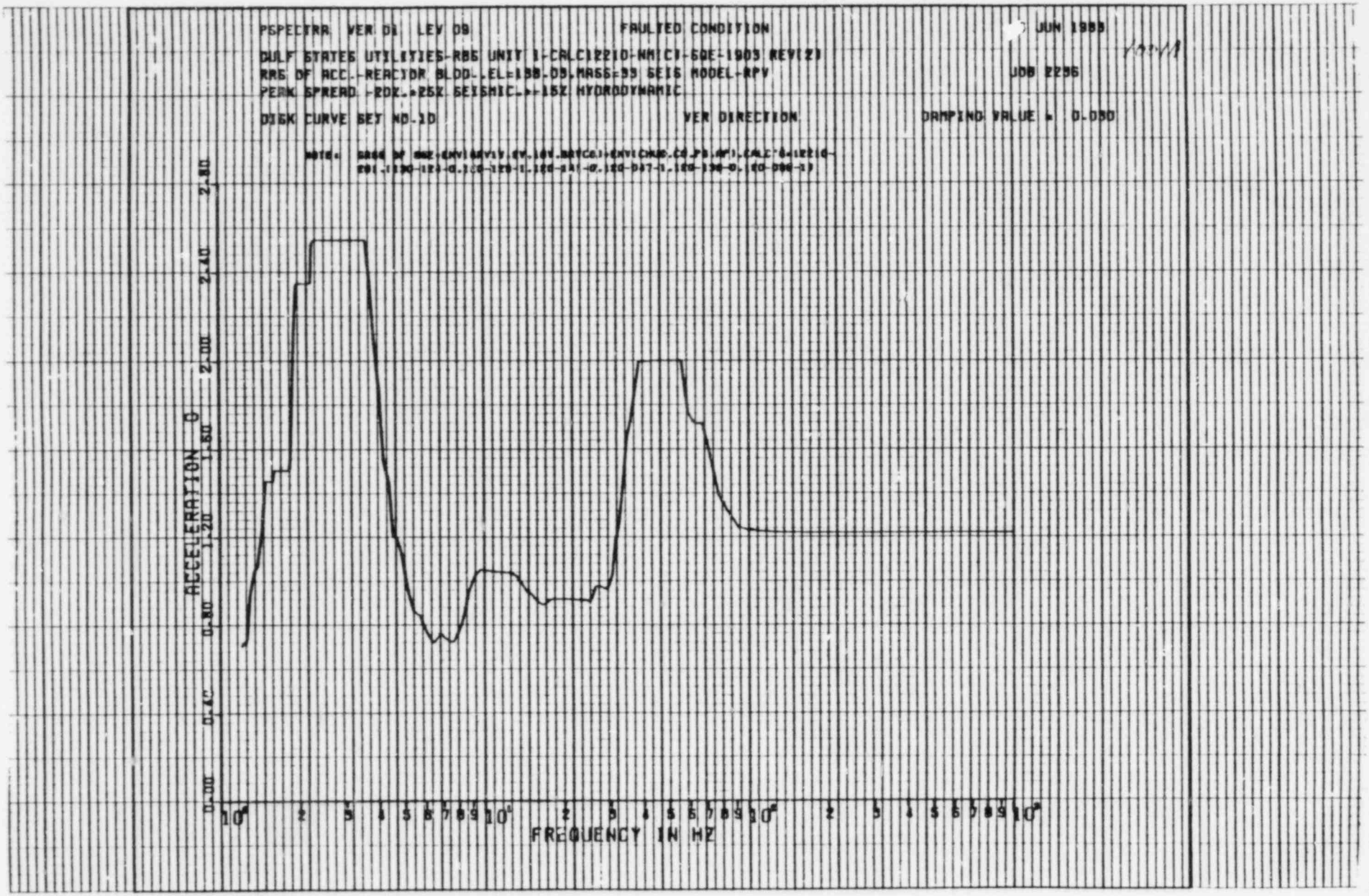
REF 67


SPECTRA VER 08 LEV 09
FAULTED CONDITION
6 JUN 1983
9830
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC)-SQE-1003 REV(2)
JOB 1671
RBS DF REC.-REACTOR BLDG. EL=100.00 MASS=35 SEIS MODEL-RPV
PEAK SPREAD -20%->25% SEISMIC +-15% HYDRODYNAMIC
DISK CURVE SET NO.10
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ

REF 67

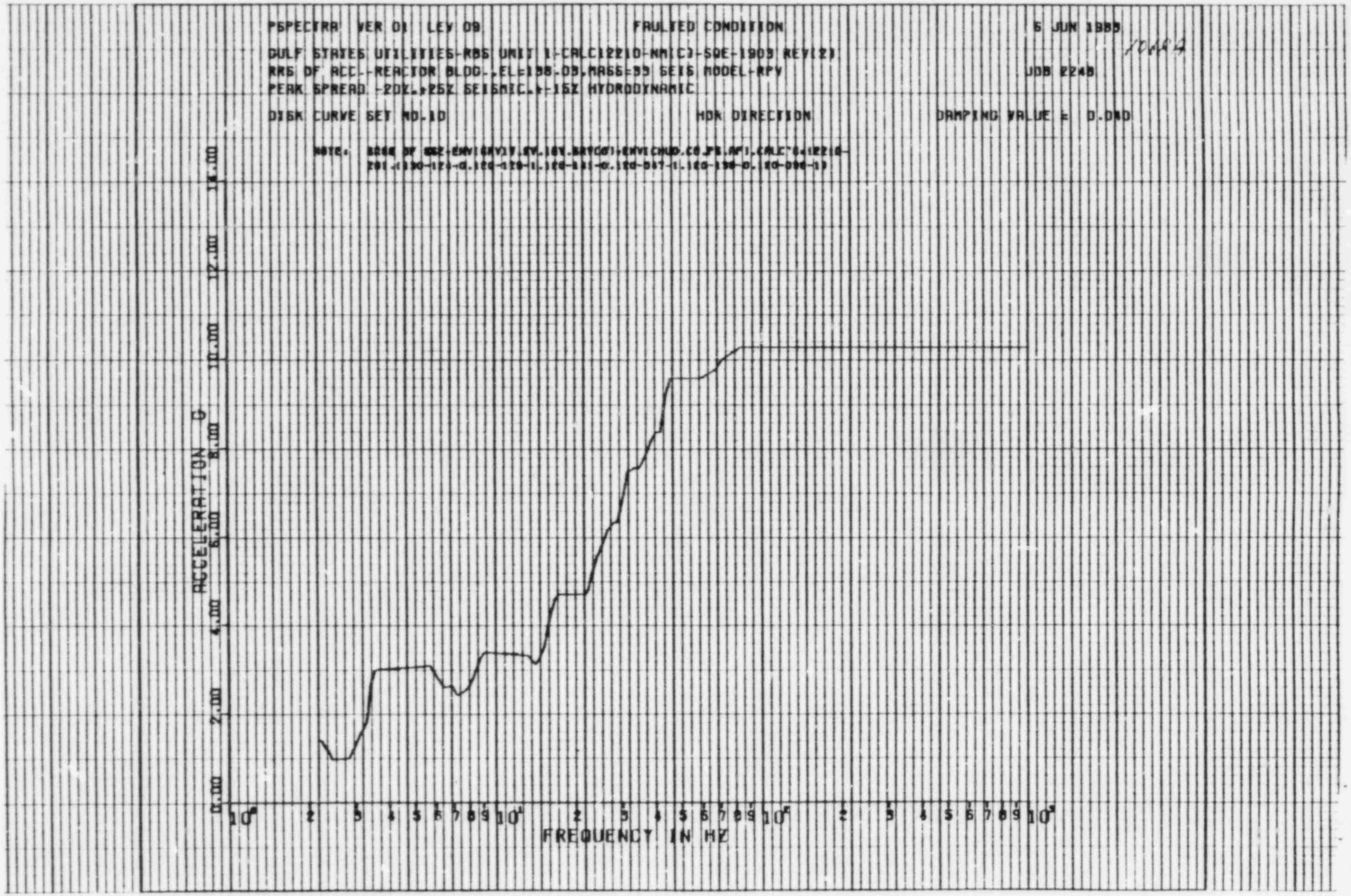

PSPECTRA VER 01 LEV 09
FAULTED CONDITION
6 JUN 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-60E-1903 REV(2)
RRS OF ACC.-REACTOR BLDG.,EL=130.03,MASS=35 SEIS MODEL-RPV
JOB 2256
PEAK SPREAD =20%,=25% SEISMIC,>=15% HYDRODYNAMIC
DISK CURVE SET NO-10
HOR DIRECTION
DAMPING VALUE = 0.050
ACCELERATION G
0.00
2.00
4.00
6.00
8.00
10.00
12.00
14.00
FREQUENCY IN HZ

REF 67

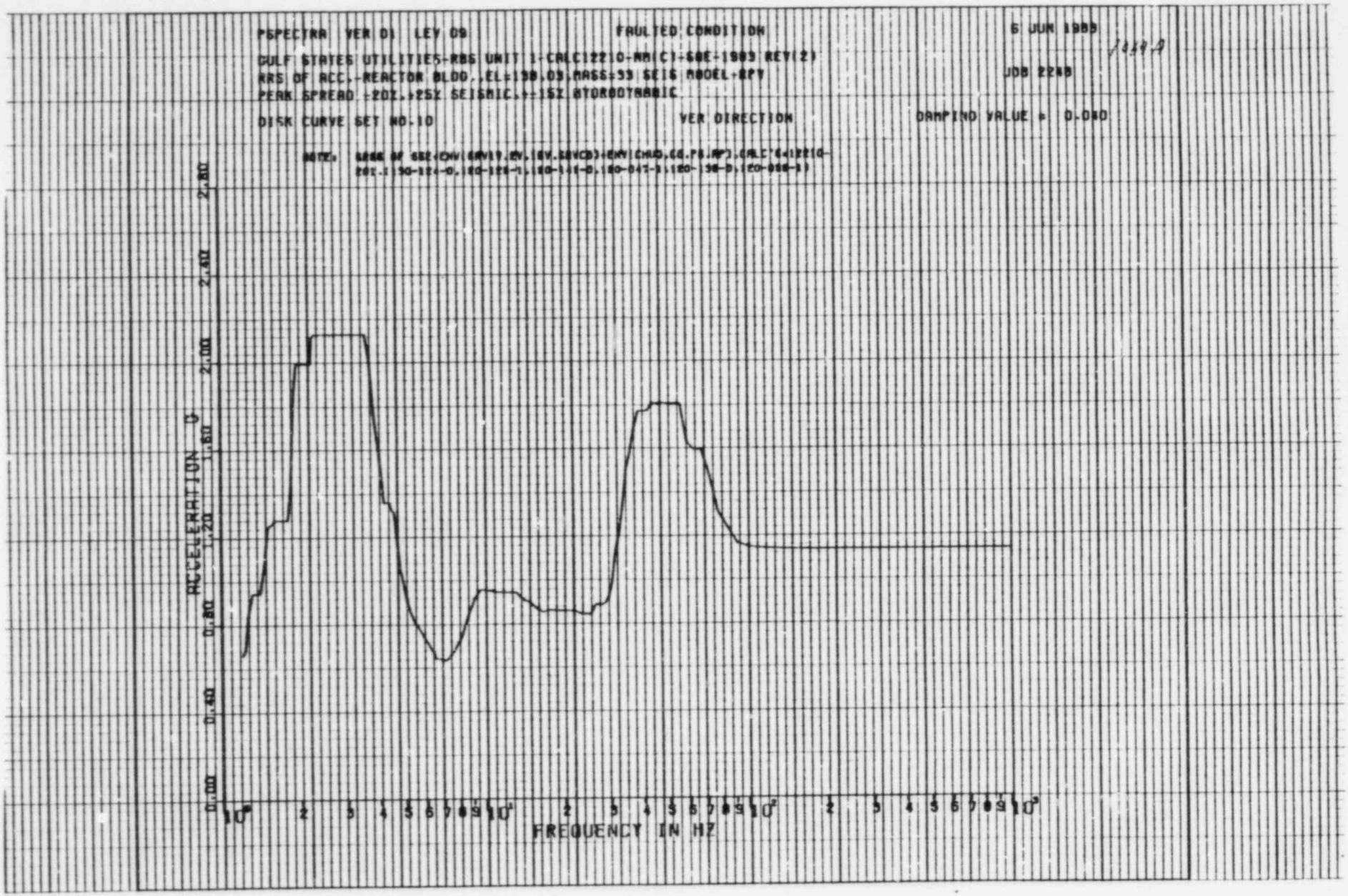

PSPECTRA VER 01 LEV 09
FAULTED CONDITION
JUN 1989
GULF STATES UTILITIES-RBS UNIT 1-CALC(2210-NMIC)-GQE-1903 REV(2)
RBS DF ACC.-REAC)DR BLDG.,EL=138.05,MASS=33 SEIS MODEL-RPV
JOB 2236
PEAK SPREAD -20%-+25% SEISMIC-++15% HYDRODYNAMIC
DIGK CURVE SET NO-10
VER DIRECTION
DAMPING VALUE = 0.050
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

REF 67

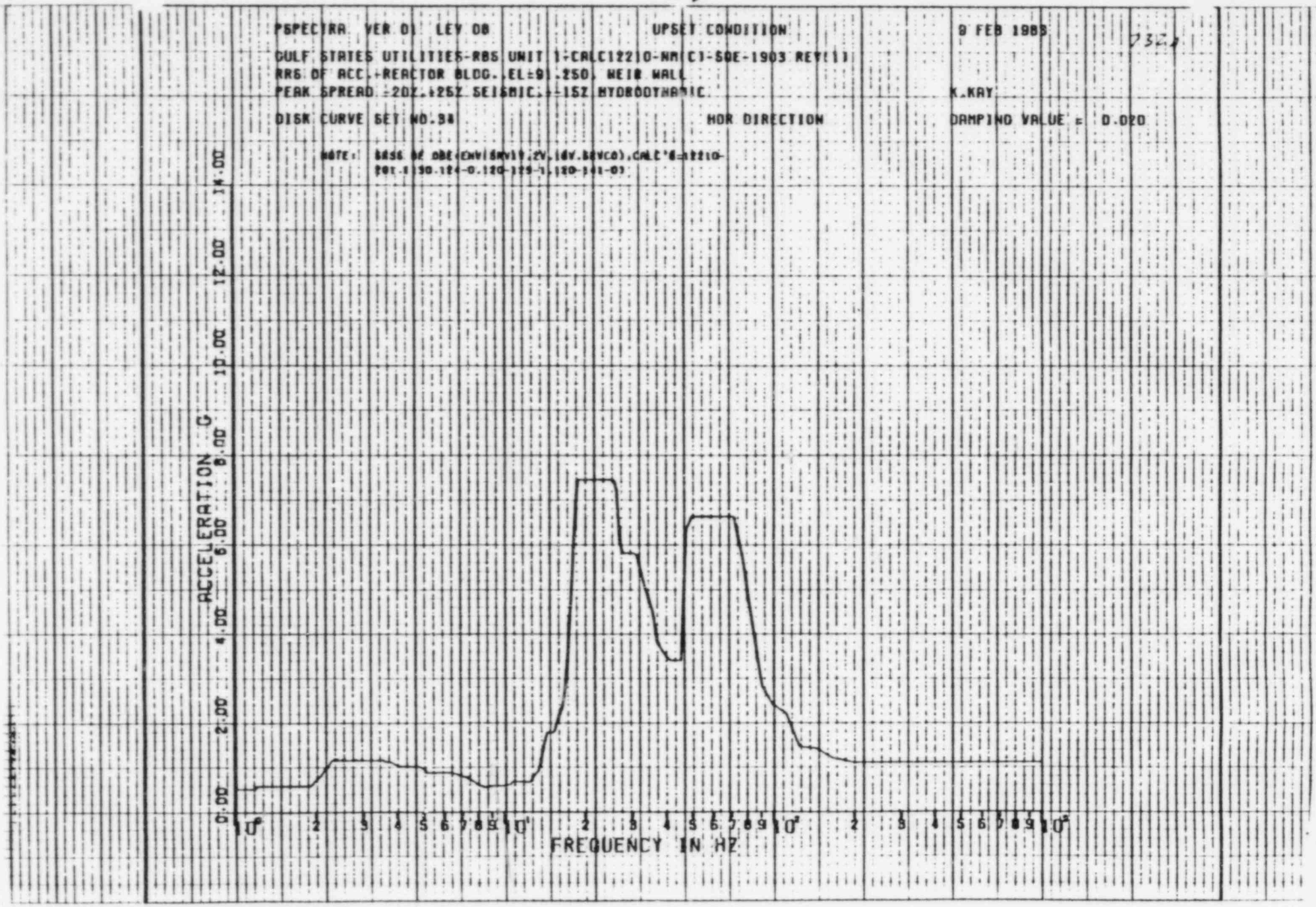
REF 67



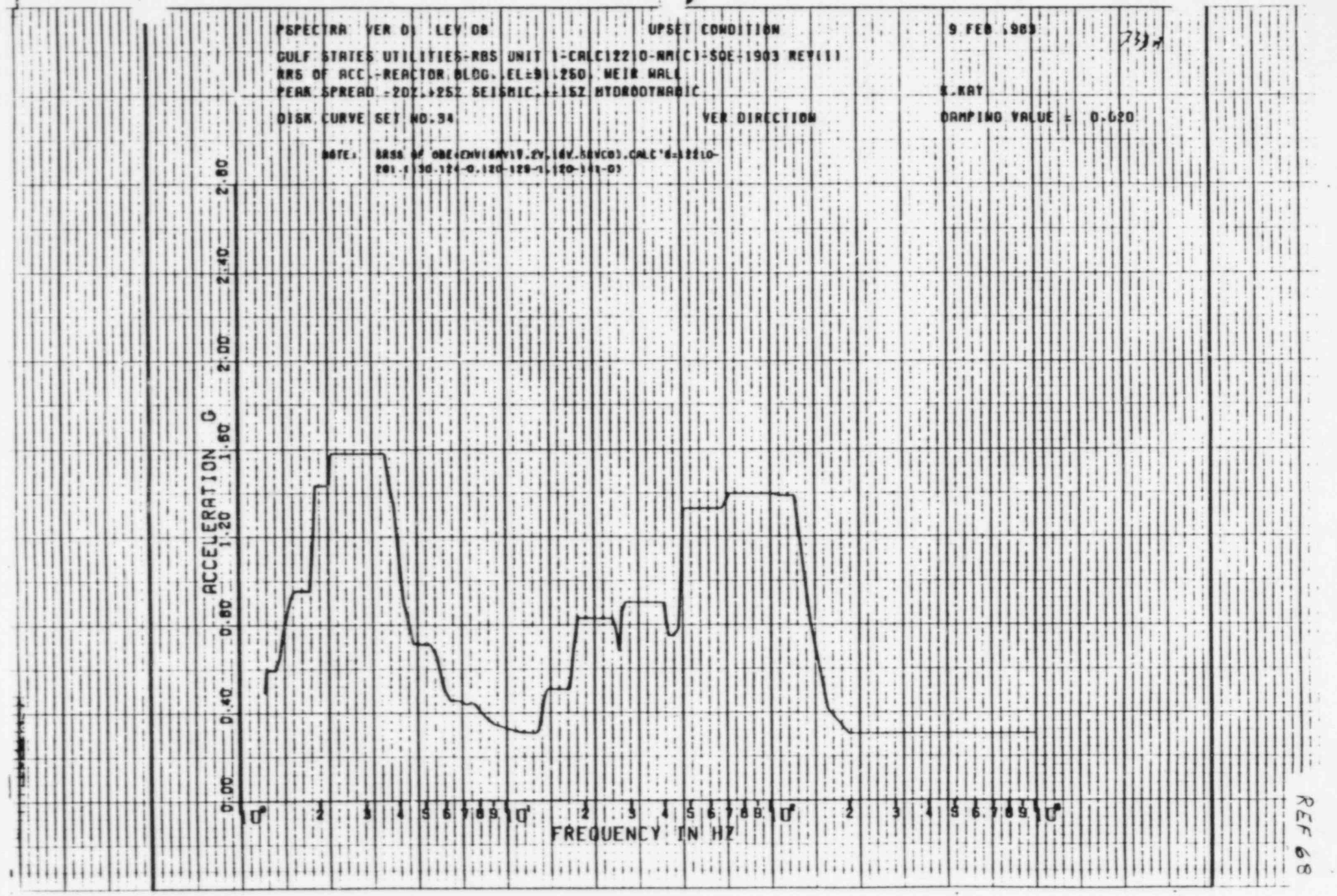
PSPECTRA VER 01 LEV 09
FAULTED CONDITION
6 JUN 1985
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(2)
RRS OF ACC--REACTOR BLDG-.EL=138.08,MASS=33 SEIS MODEL-RPV
JOB 2248
PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC
DISK CURVE SET NO.10
HOR DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
0.00
2.00
4.00
6.00
8.00
10.00
12.00
14.00
FREQUENCY IN HZ

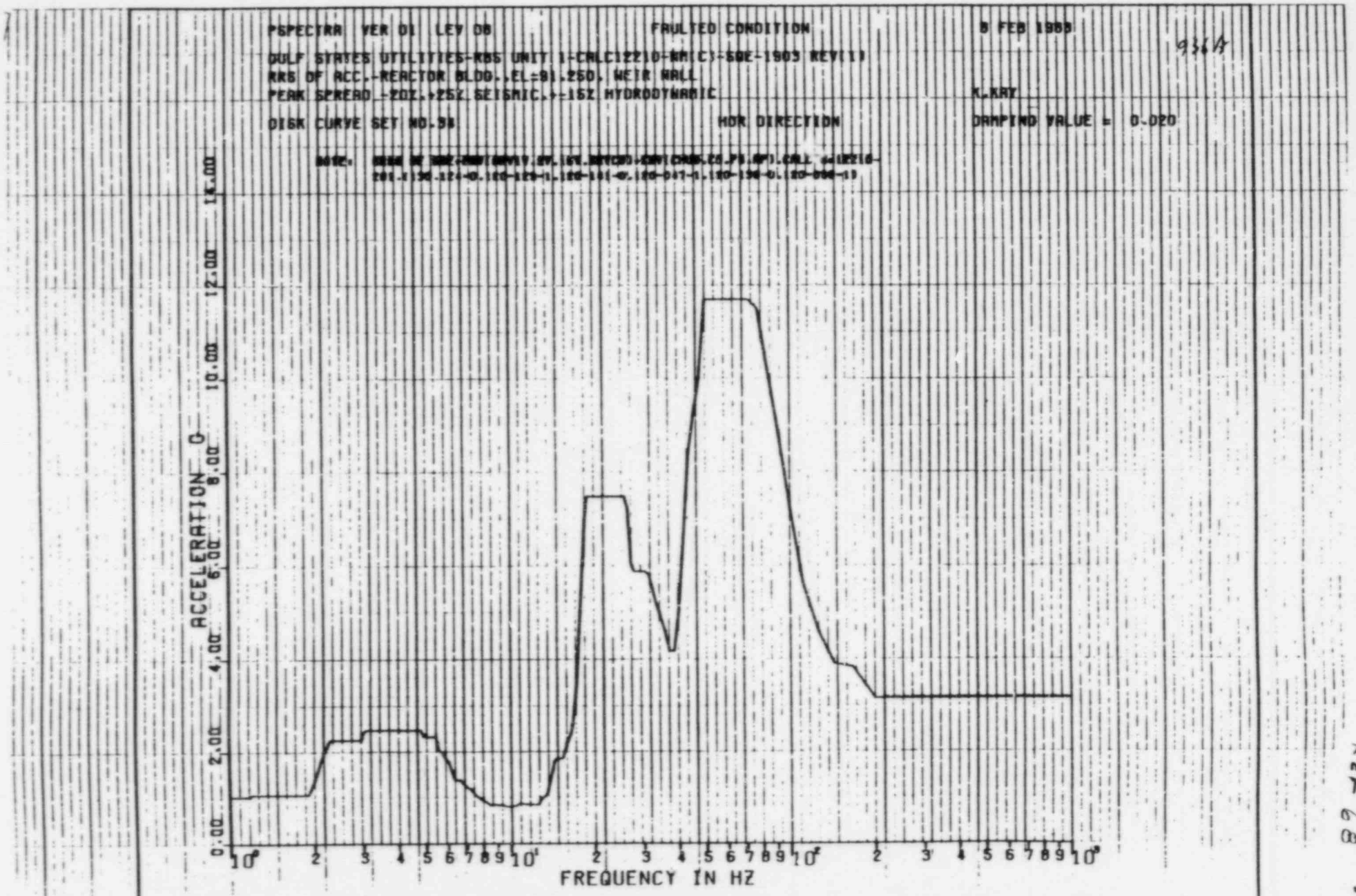

P&SPECTRA VER 01 LEV 09
FAULTED CONDITION
6 JUN 1989
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-AM(C)-GDE-1989 REV(2)
JOB 2248
RRS OF ACC.-REACTOR BLDG.,EL=130.0',MASS=33 SEIS MODEL-RPV
PEAK SPREAD =20%,+25% SEISMIC,+=15% STORDYNAMIC
DISK CURVE SET NO.10
VER DIRECTION
DAMPING VALUE = 0.040
NOTE: USAGE OF GSE(CNV(ENV19,EV,IEV,IEVCD)+ENV(CHRD,CD,PD,AP),CALC'64(12210-201.1)0-124-0,120-124-1,110-141-0,150-047-1,150-150-0,150-056-1)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

REF 67


PSPECTRA VER 01 LEV 08
UPSET CONDITION
8 FEB 1983
7324
GULF STATES UTILITIES-RBS UNIT 1-CALC1221.0-NM-C1-SQE-1903 REV[1]
RRS OF ACC.-REACTOR BLDG. EL=91.250, WEIR WALL
PEAK SPREAD =20Z,+25Z SEISMIC,+-15Z HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.34
HOR DIRECTION
DAMPING VALUE = 0.020
NOTE: BASE OF OBE(ENV(SRV11.ZV,14V.SSVC0),CALC'6=1221.0-
POI-1 90.124-0.120-125-1.120-141-03
ACCELERATION G
0.00
2.00
4.00
6.00
8.00
10.00
12.00
14.00
FREQUENCY IN HZ

REF 67


PSPECTRA VER 01 LEV 08
UPSET CONDITION
9 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-RM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG. EL=91.250, WEIR WALL
PEAK SPREAD =20%,+25% SEISMIC,+-15% HYDRODYNAMIC
5.KAY
DISK CURVE SET NO.34
VER DIRECTION
DAMPING VALUE = 0.020
NOTE: SRSS OF OBE+CHV(6MV19.2V,6V,REVC0),CALC'd=12210-201-(1)C.124-0.120-129-1,120-141-0)
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ
REF 68


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1983
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-RM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=91.250, WEIR WALL
PEAK SPREAD -20Z,+25Z SEISMIC,+-15Z HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.36
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
2.00
4.00
6.00
8.00
10.00
12.00
14.00
FREQUENCY IN HZ

PSPECTRA VER 01 LEV 08 FHUL -- JN 8 FEB 1983

GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-Sup-1903 REV(1)

RRS OF ACC.-REACTOR BLDG.,EL=91.250, WEIR WALL

PEAK SPREAD -20%,+25% SEISMIC,+-15% HYDRODYNAMIC

K.KAY

DISK CURVE SET NO.34 VER DIRECTION DAMPING VALUE = 0.020

NOTE: SRSS OF GSE+ENV(SSEV1Y.EV.1SY.SSEVCO)+ENV(CHSD.CS.PS.MP).CALC'S=122'0-
201.(190.124-0.120-125-1.120-141-0.120-047-1.120-136-0.120-056-11

937A

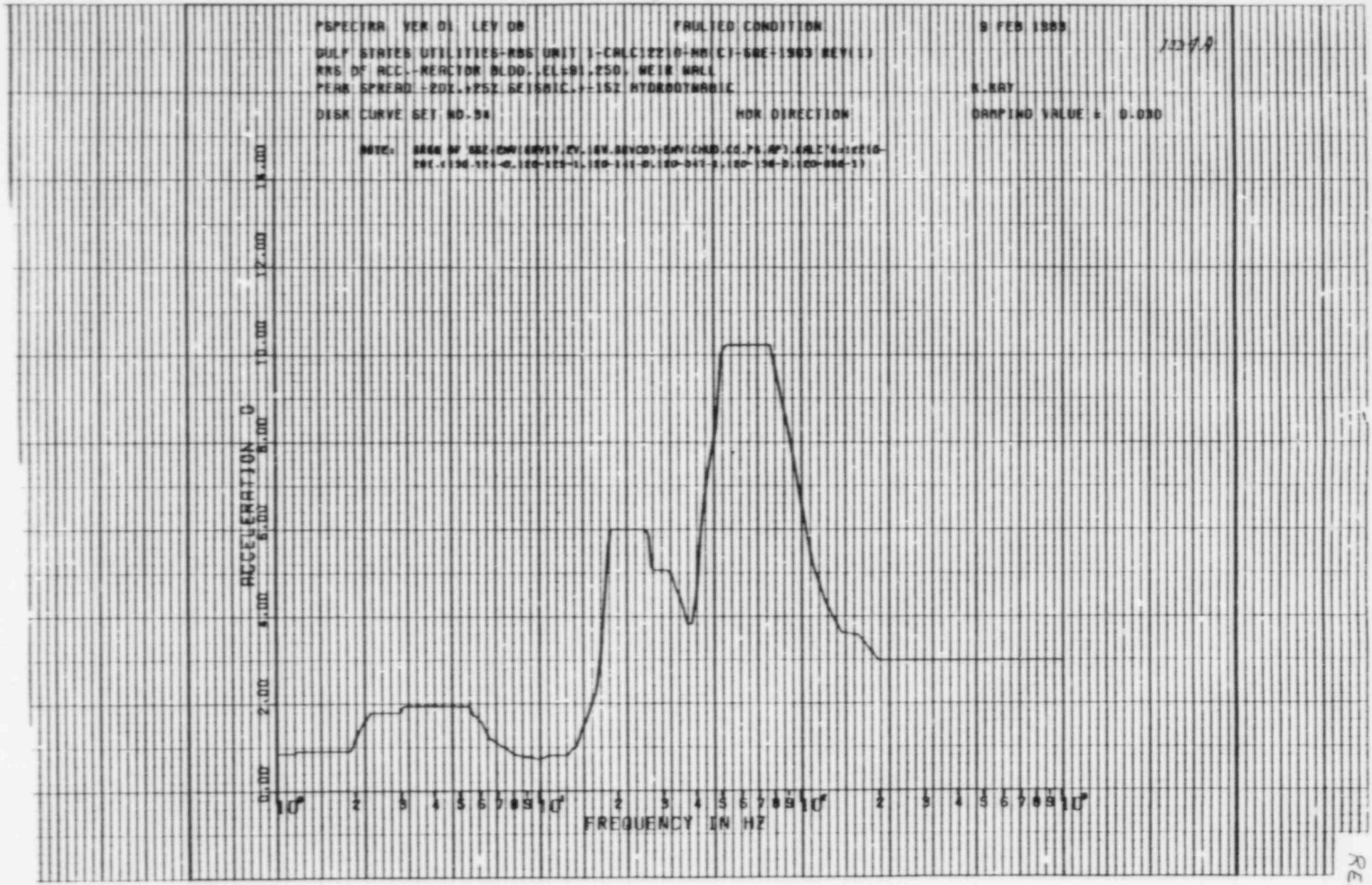
ACCELERATION G

0.00 0.50 1.00 1.50 2.00 2.50 3.00 3.50

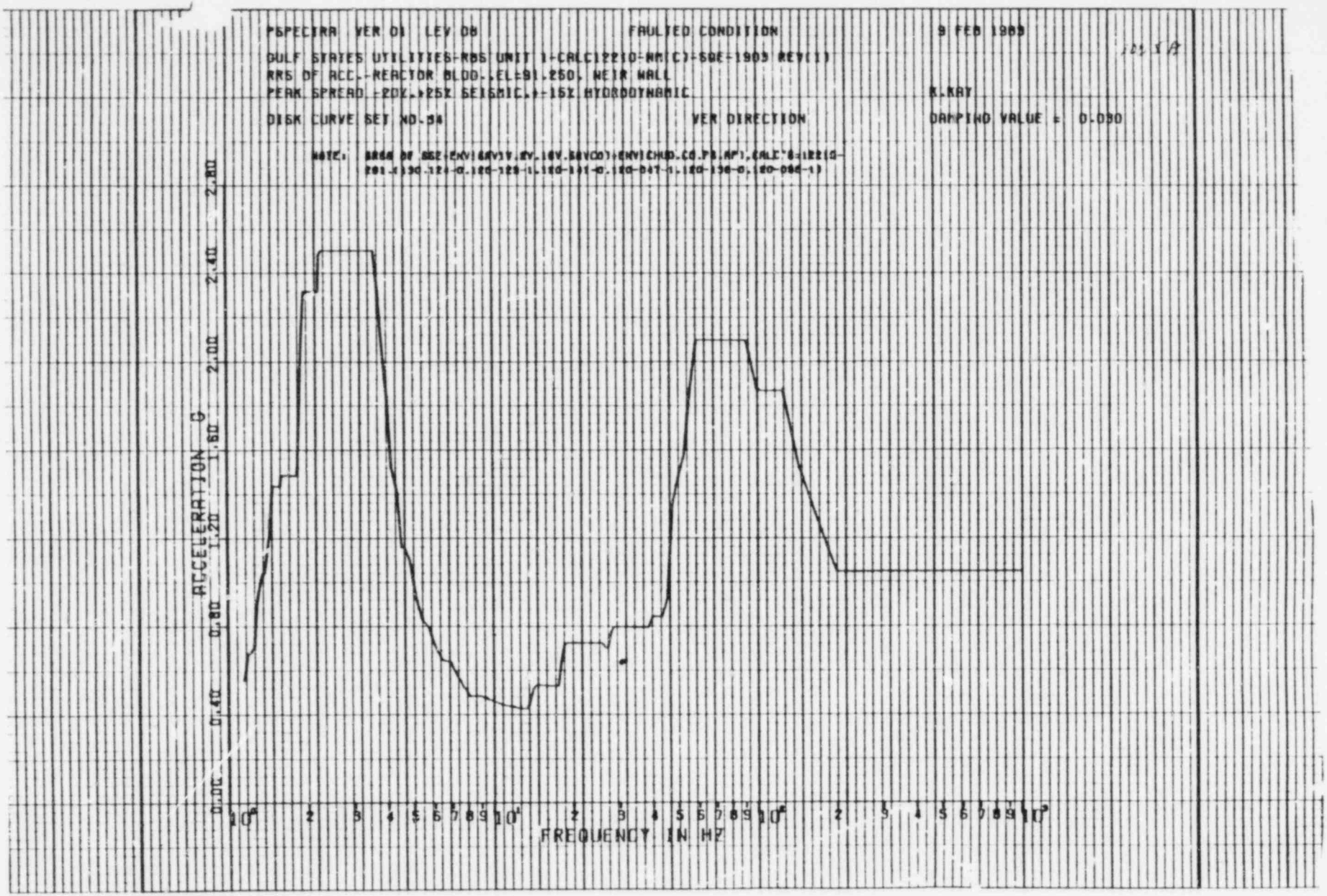
10^0 2 3 4 5 6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2 3 4 5 6 7 8 9 10^3

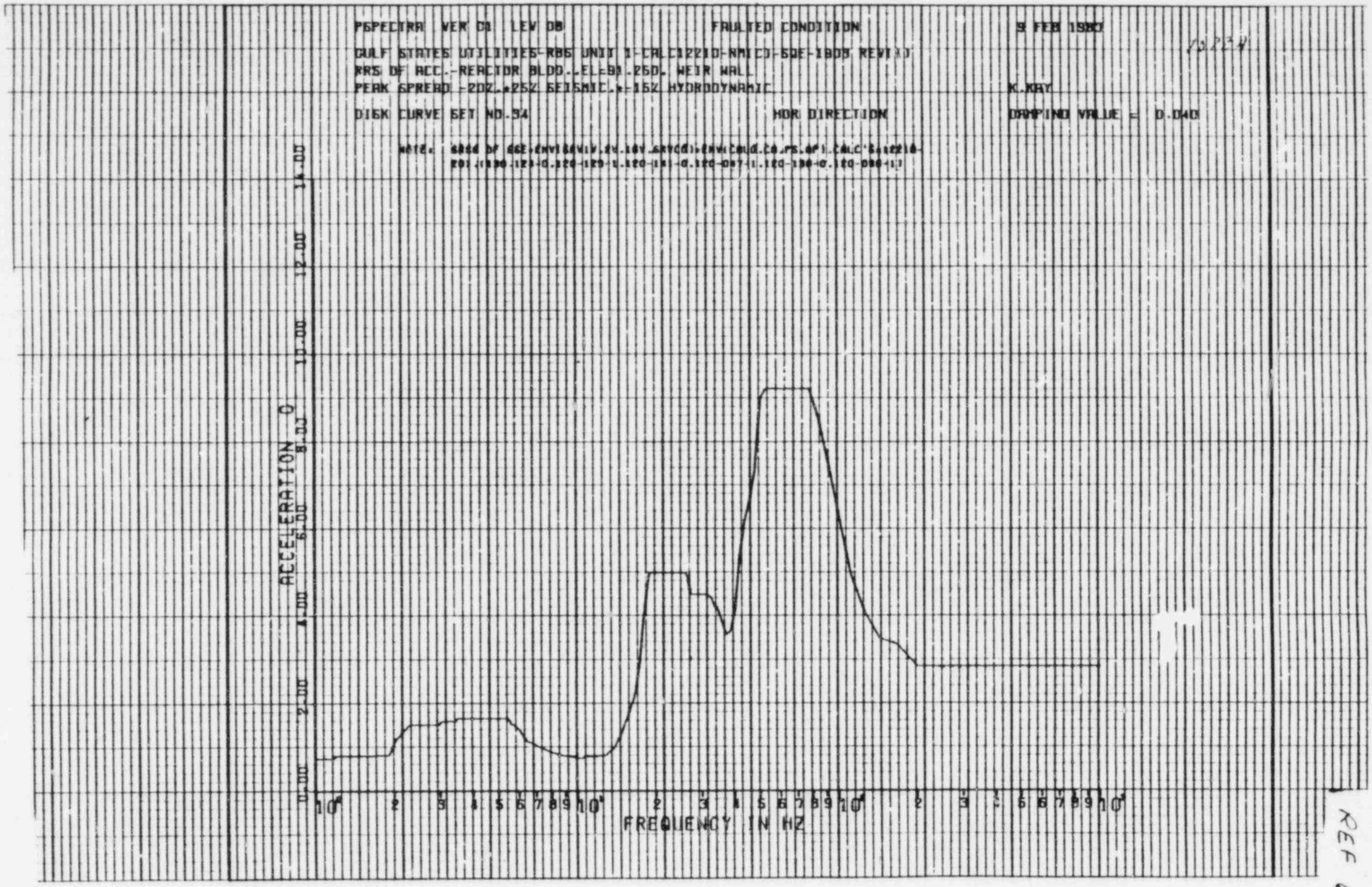
FREQUENCY IN HZ

REF 68

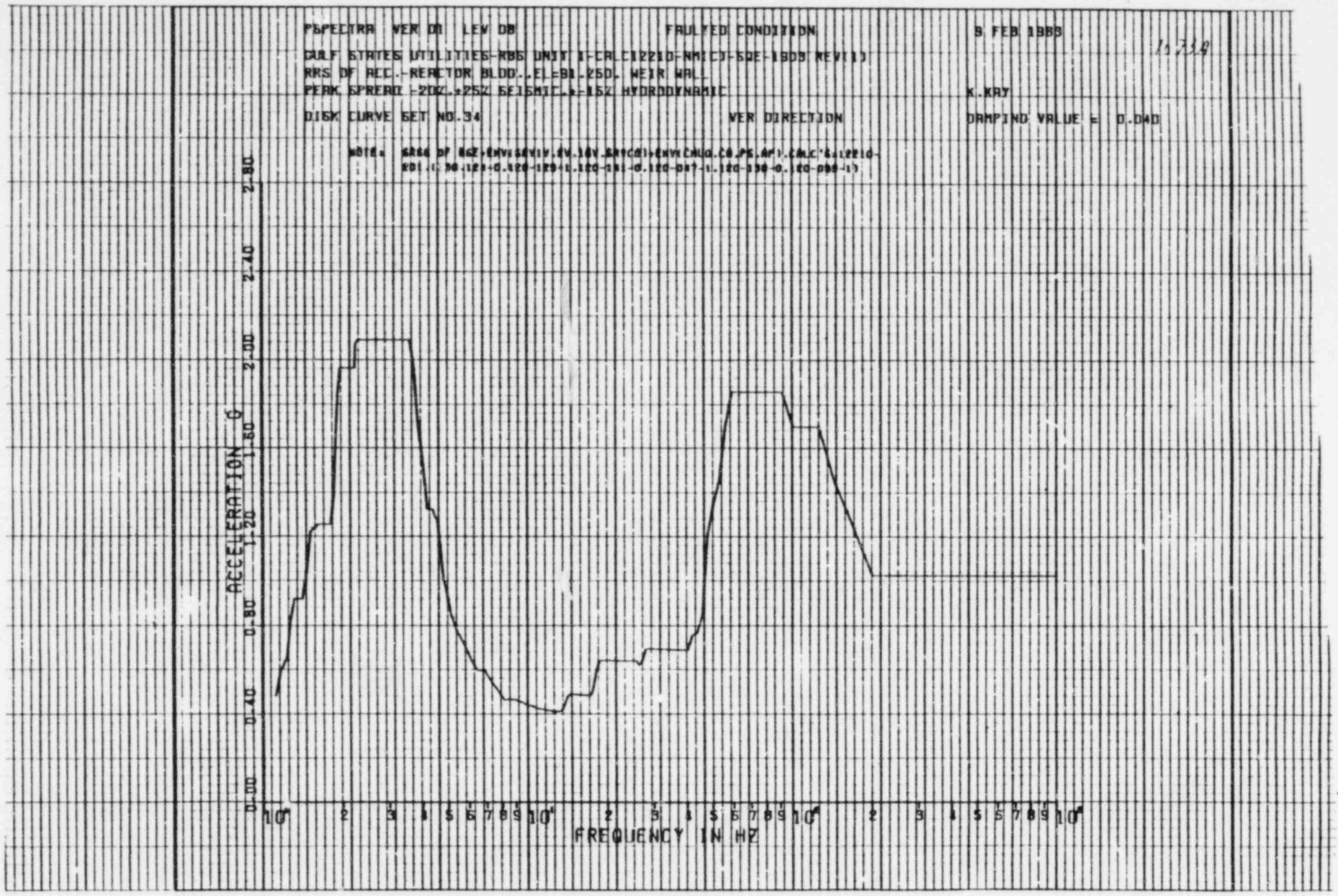

PSPECTRR VER 01 LEV 08 FAULTED CONDITION 9 FEB 1989
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MR(C)-GQE-1983 REV(1)
RMS OF ACC.-REACTOR BLDG.,EL+91.250, WEIR WALL
PEAK SPREAD +20%,+25% SEISMIC,+-15% HYDRODYNAMIC
DISK CURVE SET NO.34 MDR DIRECTION
DAMPING VALUE = 0.030
ACCELERATION G
0.00
2.00
4.00
6.00
8.00
10.00
12.00
14.00
FREQUENCY IN HZ

REF 68


PSPECTRA VER 01 LEV 08
FAULTED CONDITION
9 FEB 1989
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.,EL=91.250, WEIR WALL
PEAK SPREAD =20%,+25% SEISMIC,+-15% HYDRODYNAMIC
R.RAY
DISK CURVE SET NO.=4
VER DIRECTION
DAMPING VALUE = 0.030
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ


PSPECTRA VER 08 LEV 08 FAULTED CONDITION 9 FEB 1980
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMICD-SDE-1808 REVIED
RRS OF ACC.-REACTOR BLDG.-EL=93.-25D. WEIR WALL
PEAK SPREAD =20Z.=25Z SEISMIC.=15Z HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.34 HOR DIRECTION DAMPING VALUE = 0.040
ACCELERATION G
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
FREQUENCY IN HZ

REF 68


SPECTRA VER 01 LEV 08
FAULTED CONDITION
8 FEB 1988
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMCD-SQE-1808 REV(1)
RMS OF REC.-REACTOR BLDG.,EL=98.25D. WEIR WALL
PEAK SPREAD =20%,+25% SEISMIC,+-15% HYDRODYNAMIC
K.KAY
DISK CURVE SET NO.34
VER DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
FREQUENCY IN HZ
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80

REF 68