

CYGNA		102
JOB NO :	84042	
DATE LOGGED:	6/7/84	
LOG NO. :	H116 (51)	
FILE:	11.1 Tech. Files	
CROSS REF. FILE	11.1 Tech. Files Log	

FAB-4R

116  
517

# REFINED RESPONSE SPECTRA FOR

## AUXILIARY BUILDING

## COMANCHE PEAK STEAM ELECTRIC STATION NUCLEAR POWER PLANT

CTBBS & HILL

8411060474 840620  
PDR ADDCK 05000445  
A PDR

RECEIVED NOVEMBER '82

JUN 7 1984

CYGNA - SAN FRANCISCO

## CPSES

## REFINED RESPONSE SPECTRA FOR AUXILIARY BUILDING

Presented herewith are the refined floor response spectra for the auxiliary building (references 2 and 3) based on existing response spectra (reference 1) and developed primarily for as-built piping analysis. These response spectra have been refined based upon improved curve smoothing techniques by use of computer, instead of by hand. Therefore, undue hand smoothing and digitizing have been eliminated. Also, improved interpolation has been used at lumped masses based on time history responses. The results are plotted in terms of accelerations versus frequencies for ease of use.

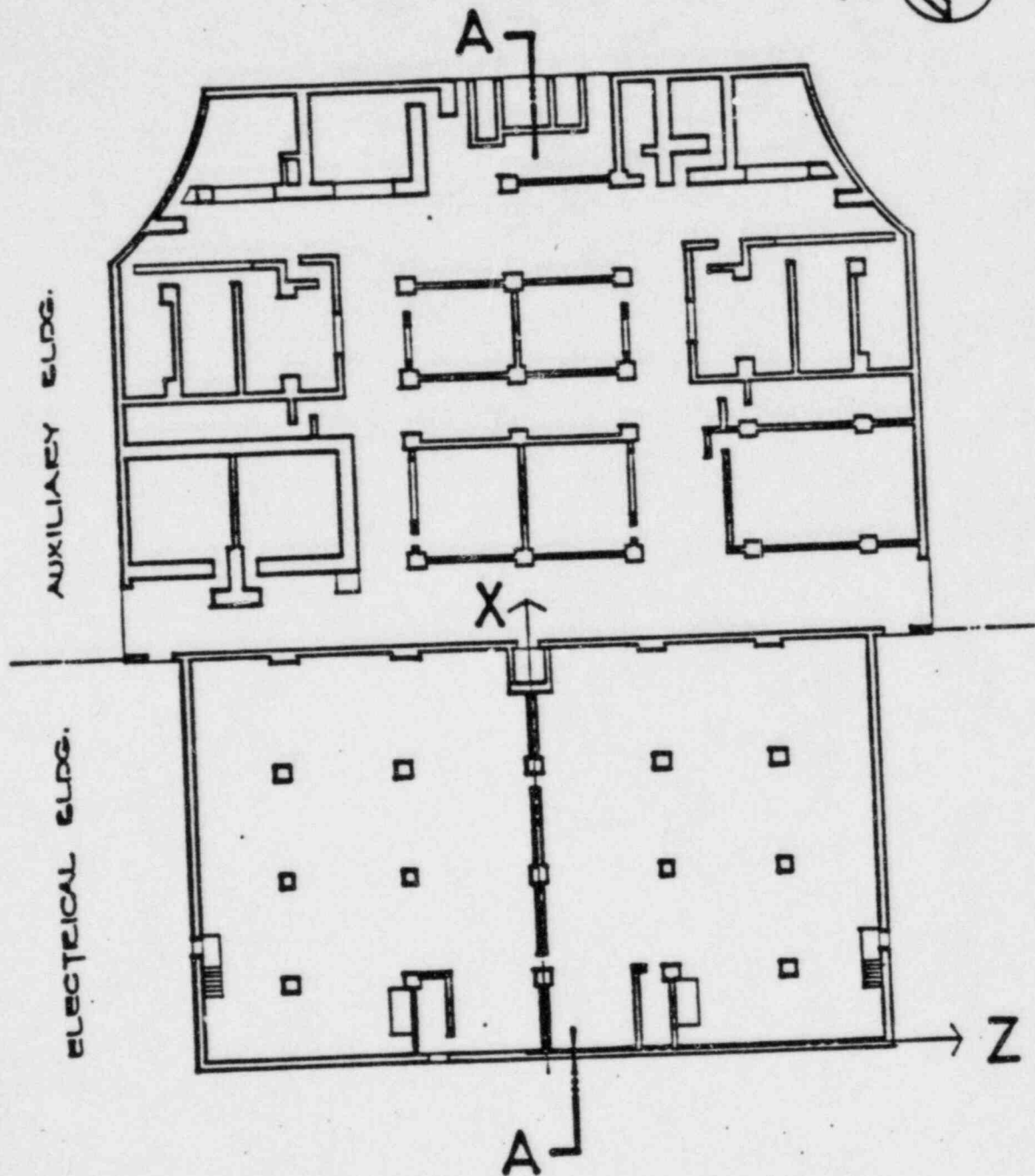
The results are presented in figures 1323-B through 1336-B and 1295-B through 1308-B which are summarized in Table nos. 2 and 3. Also the digitized values of the same spectra are also included at the end of the book.

Each figure refers to a specific floor of the building, and contains three curves labeled Ax, Ay and Az, which represent the spectral accelerations in the x, y and z orthogonal directions respectively due to the combined effect of three simultaneous earthquakes at the specified % damping. Please note that Ax and Az are in the east-west and the north-south directions respectively while Ay is in the vertical direction based upon the plant's general coordinate system.

All spectra presented in this report include the coupling effects of non-symmetric structure. The curves shown are for the most critical location of the floor, considering the combined effect of translation and rotation.

## References:

1. "Instructure Response Spectra for Auxiliary Building," Gibbs & Hill report no. FAB-3R, June 1976.
2. "TUSI - Refined Response Spectra for Auxiliary Building," calculation book no. FAB-1C, Rev. 0.
3. "TUSI - Computer Output for Auxiliary Building Refined Response Spectra," computer output file no. FMI-1P Set 2, Rev. 0.



NOTE: ORIGIN OF COORDINATES  
IS AT ELEVATION 0.00'

TUSI  
ELECT. &  
AUXILIARY BUILDING

**Gibbs & Hill, Inc.**  
GENERAL BUILDING CONTRACTORS  
NEW YORK

SCALE - 1" = 40'

SKETCH !

[illegible]





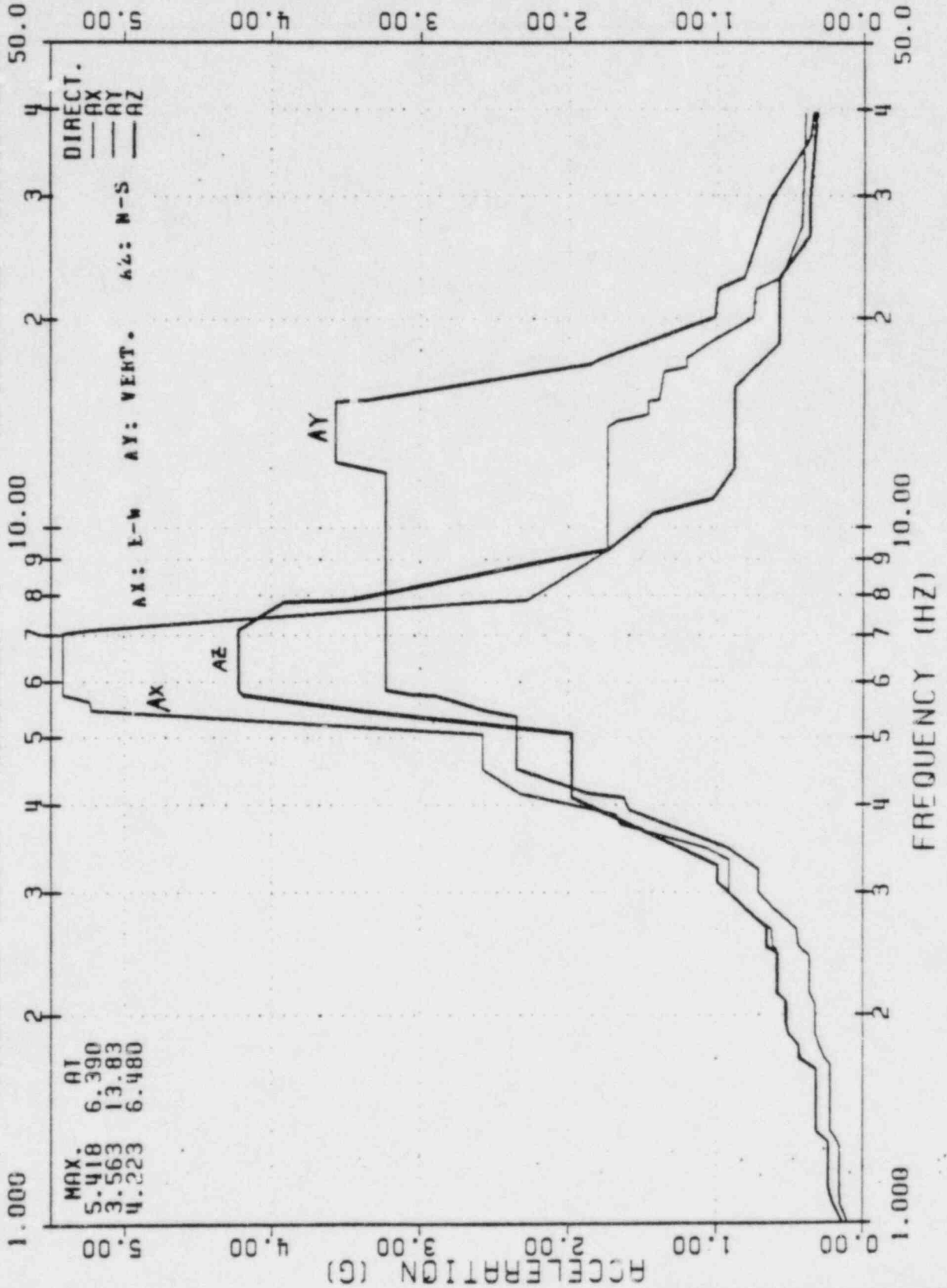






# TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.:

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX; DAMPING = 0.01  
 FIGURE NO. 1323-B DIRECTION 1 AT ELEVATION 89.50 FEET



TUSI-AUXILIARY BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

JOB NO. 2323

FIGURE-1323-B

ISSUED FOR DATE PLTD. CHNG. 900.

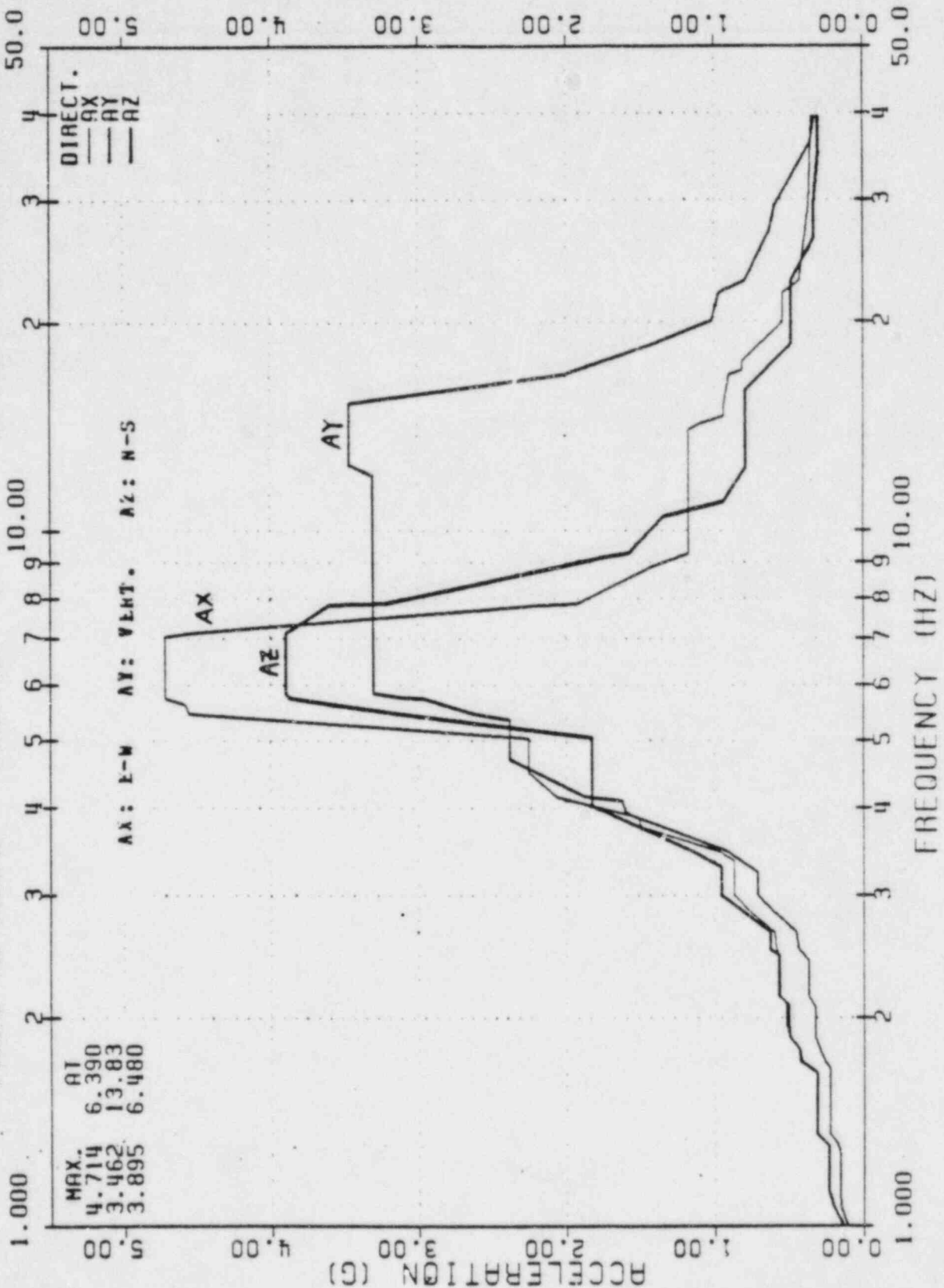
APPROVALS

ISSUED FOR



# TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX; DAMPING = 0.01  
 FIGURE NO. 1324-B DIRECTION 1 AT ELEVATION 886.50 FEET



TUSI-AUXILIARY BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.  
 ENGINEERS, DESIGNERS, CONSTRUCTORS

FIGURE-1324-B



# TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

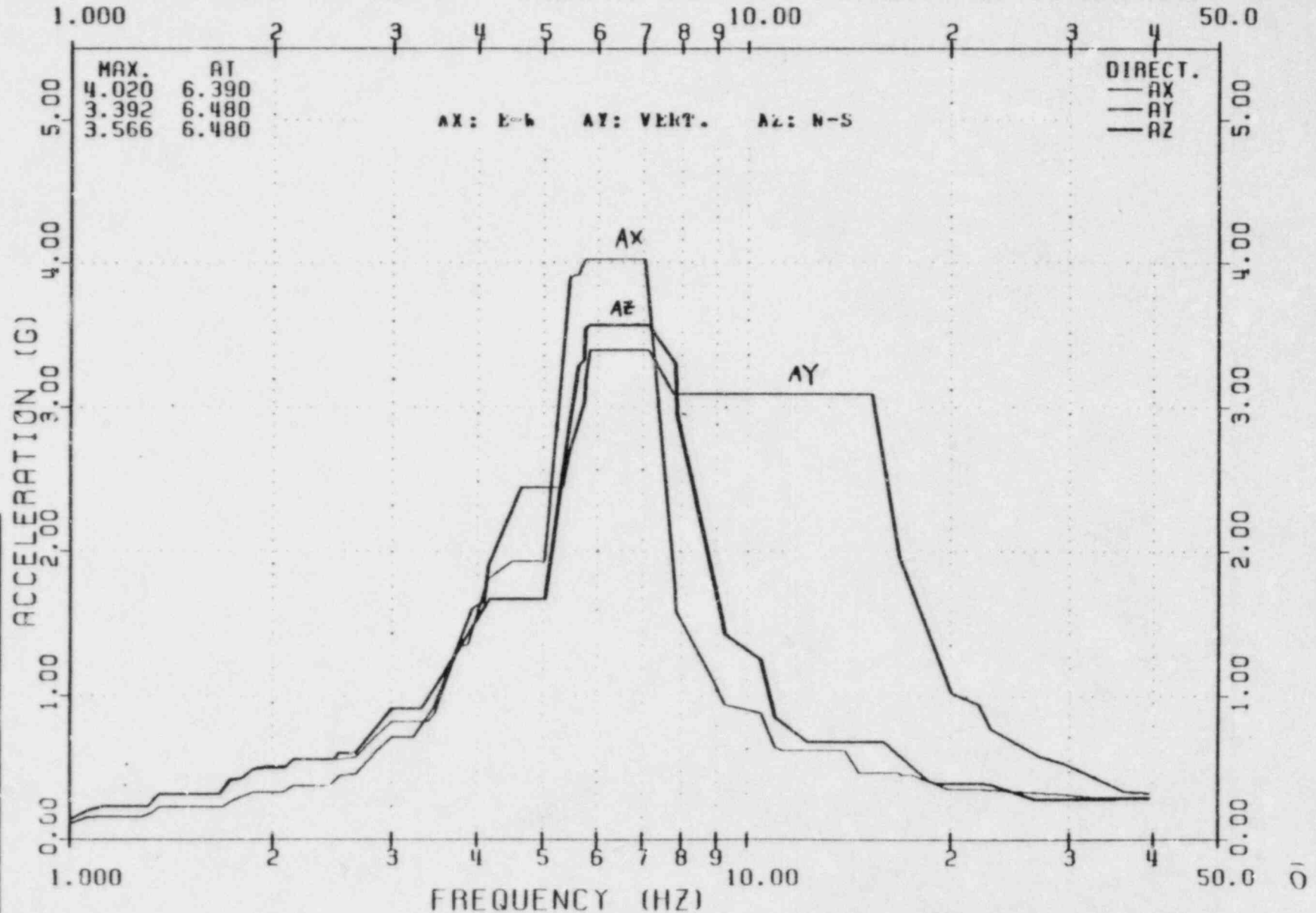
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX ; DAMPING = 0.01

FIGURE NO. 1325-B

DIRECTION 1

AT ELEVATION

873.50 FEET



TUSI-AUXILIARY BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

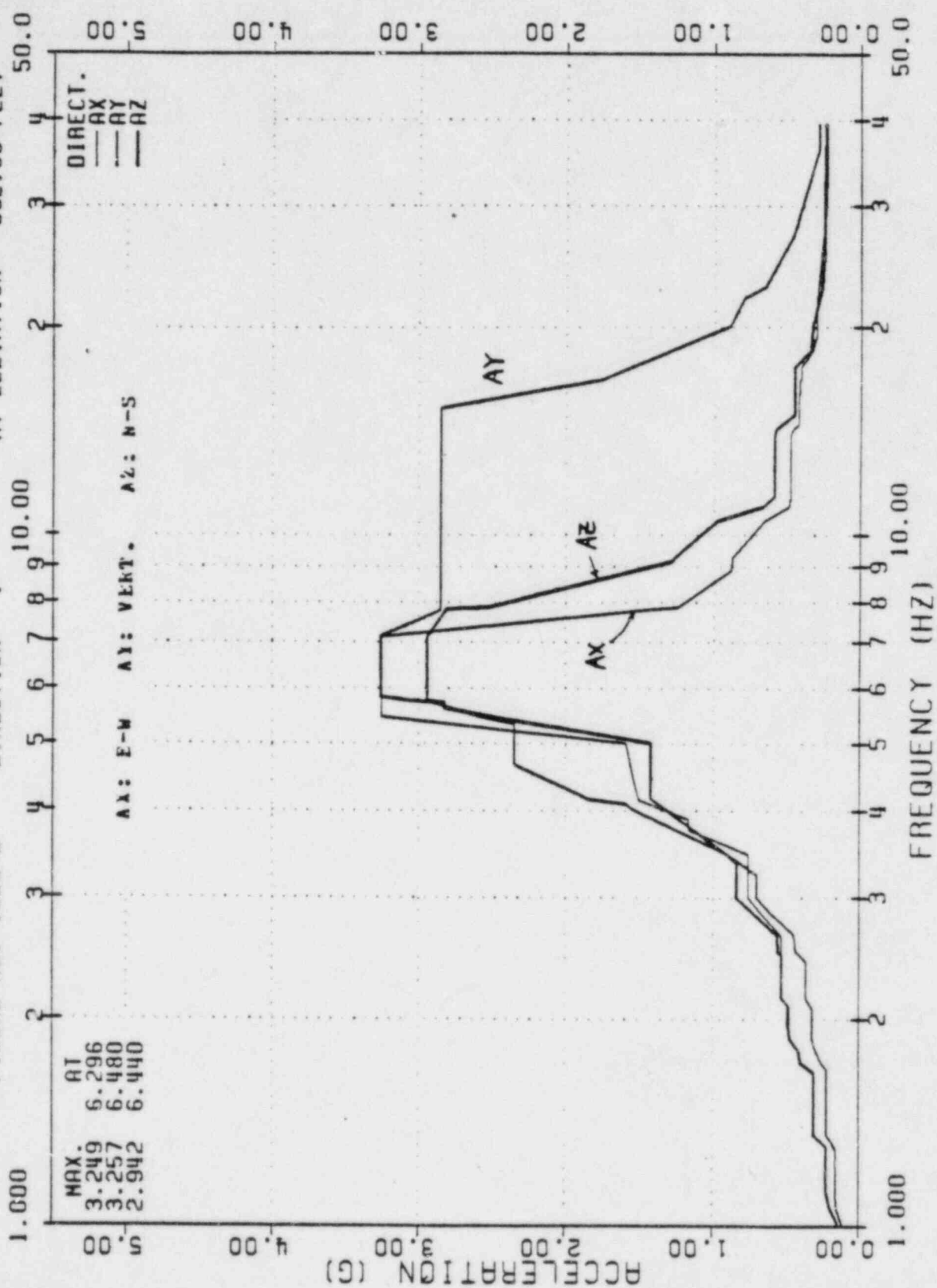
ENGINEERS, DESIGNERS, CONSULTANTS

JOB NO. 2323

FIGURE-1325-B

# TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX; DAMPING = 0.01  
 FIGURE NO. 1326-B DIRECTION 1 AT ELEVATION 852.50 FEET



TUSI-AUXILIARY BLDG.	
REFINED RESPONSE SPECTRA	
GIBBS & HILL, INC. ENGINEERS, DESIGNERS, CONSTRUCTORS NEW YORK	FIGURE-1326-B
JOB NO. 2323	ISSUED FOR

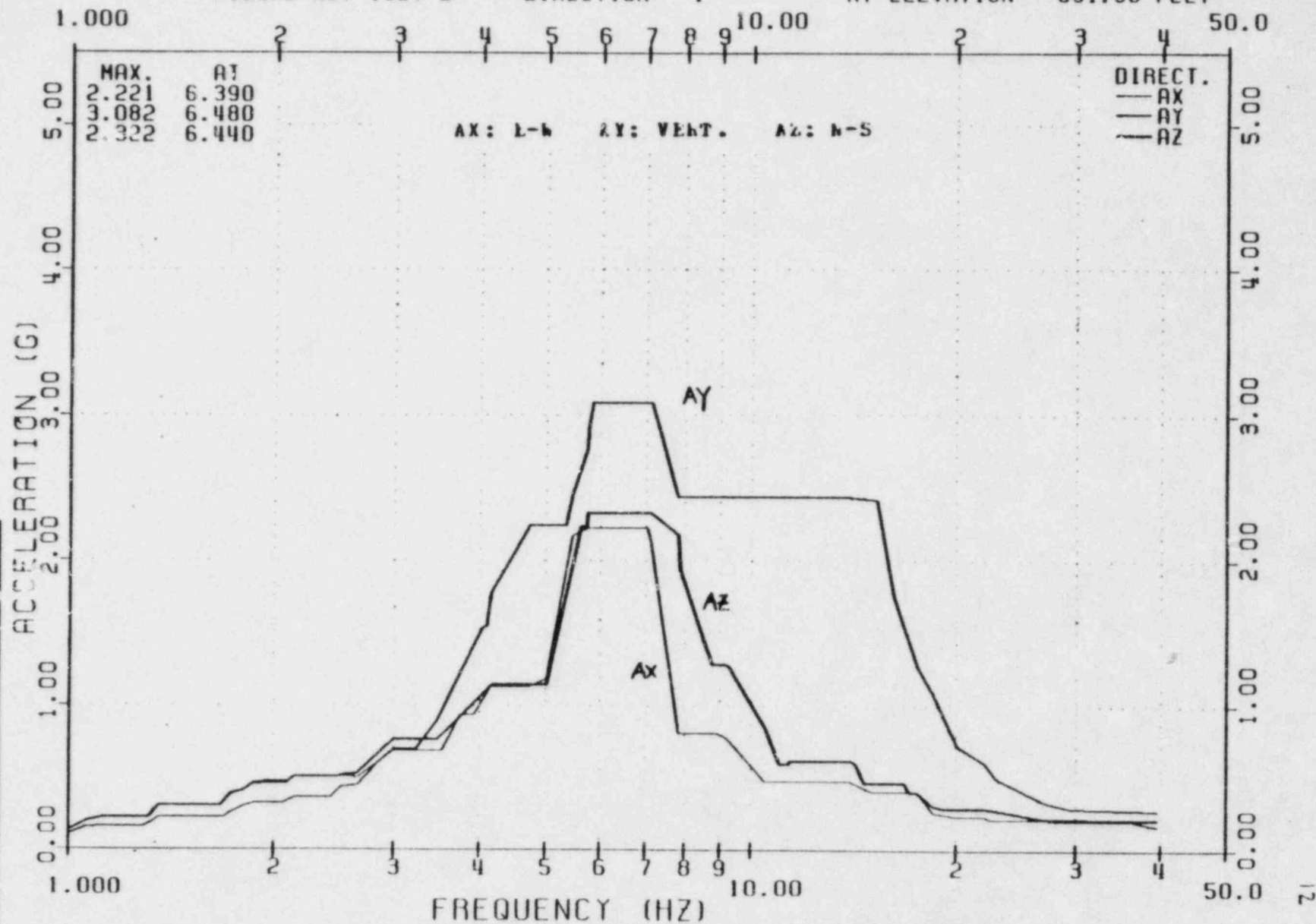
# TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX ; DAMPING = 0.01

FIGURE NO. 1327-B

DIRECTION 1

AT ELEVATION 831.50 FEET



TUSI-AUXILIARY BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

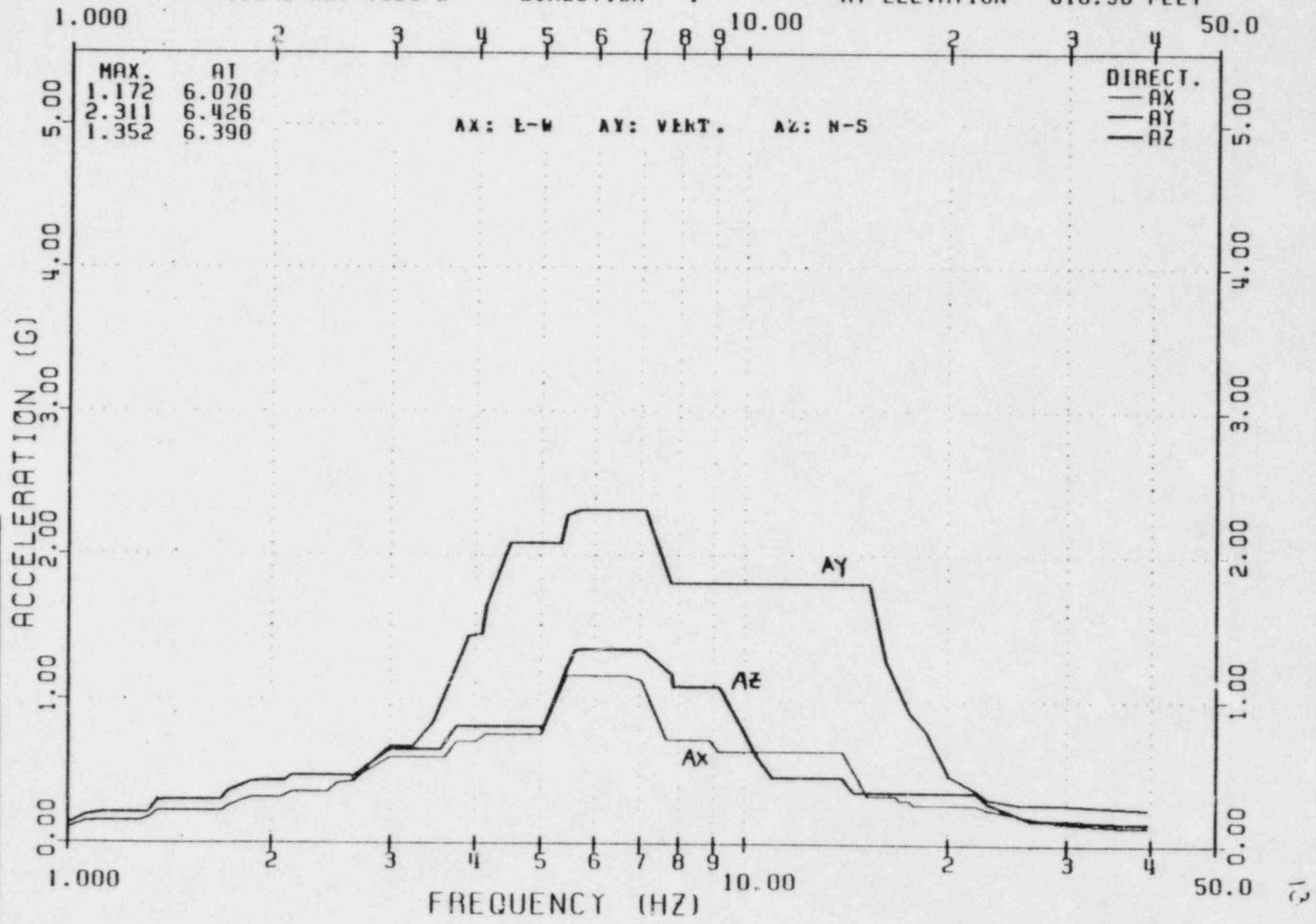
ENGINEERS, DESIGNERS, CONSTRUCTORS

FIGURE 1327-B

0 11 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50

TUSI-AUXILIARY BLDG.  
REFINED RESPONSE SPECTRA  
GIBBS & HILL, INC.  
ENGINEERS, DESIGNERS, CONSTRUCTORS

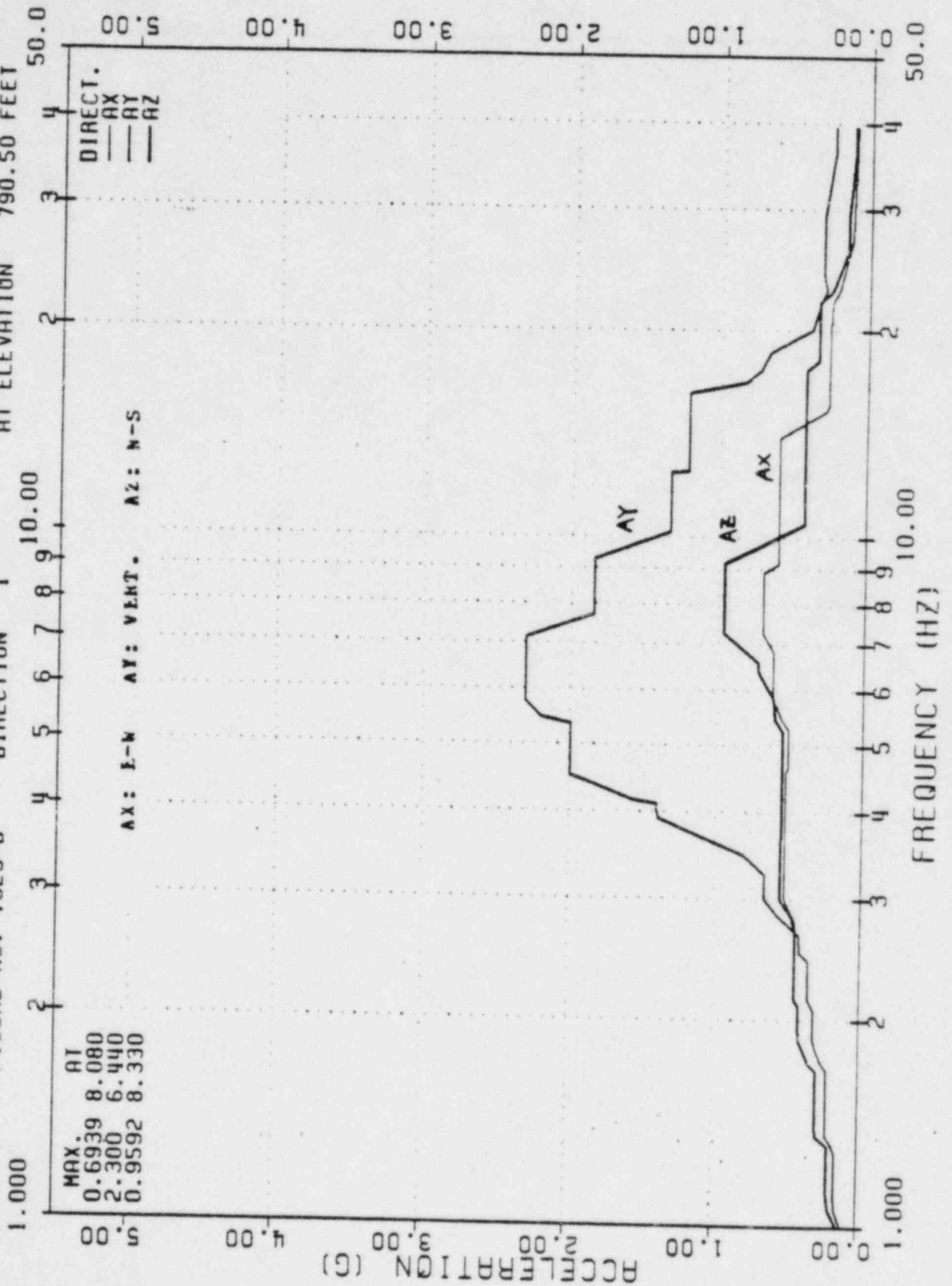
TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX; DAMPING = 0.01  
FIGURE NO. 1328-B DIRECTION 1 AT ELEVATION 810.50 FEET



# TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX; DAMPING = 0.01

FIGURE NO. 1329-B DIRECTION 1 AT ELEVATION 790.50 FEET



TUSI-AUXILIARY BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.  
ENGINEERS, DESIGNERS, CONSTRUCTORS

FIGURE-1329-B

0 1161840P WT

ISSUE NO. DATE PLTD. CHRG. 300.

ARCH. STRUCT. MECH. ELEC. MECH. & MATH. CIV. P.E.

ISSUED FOR



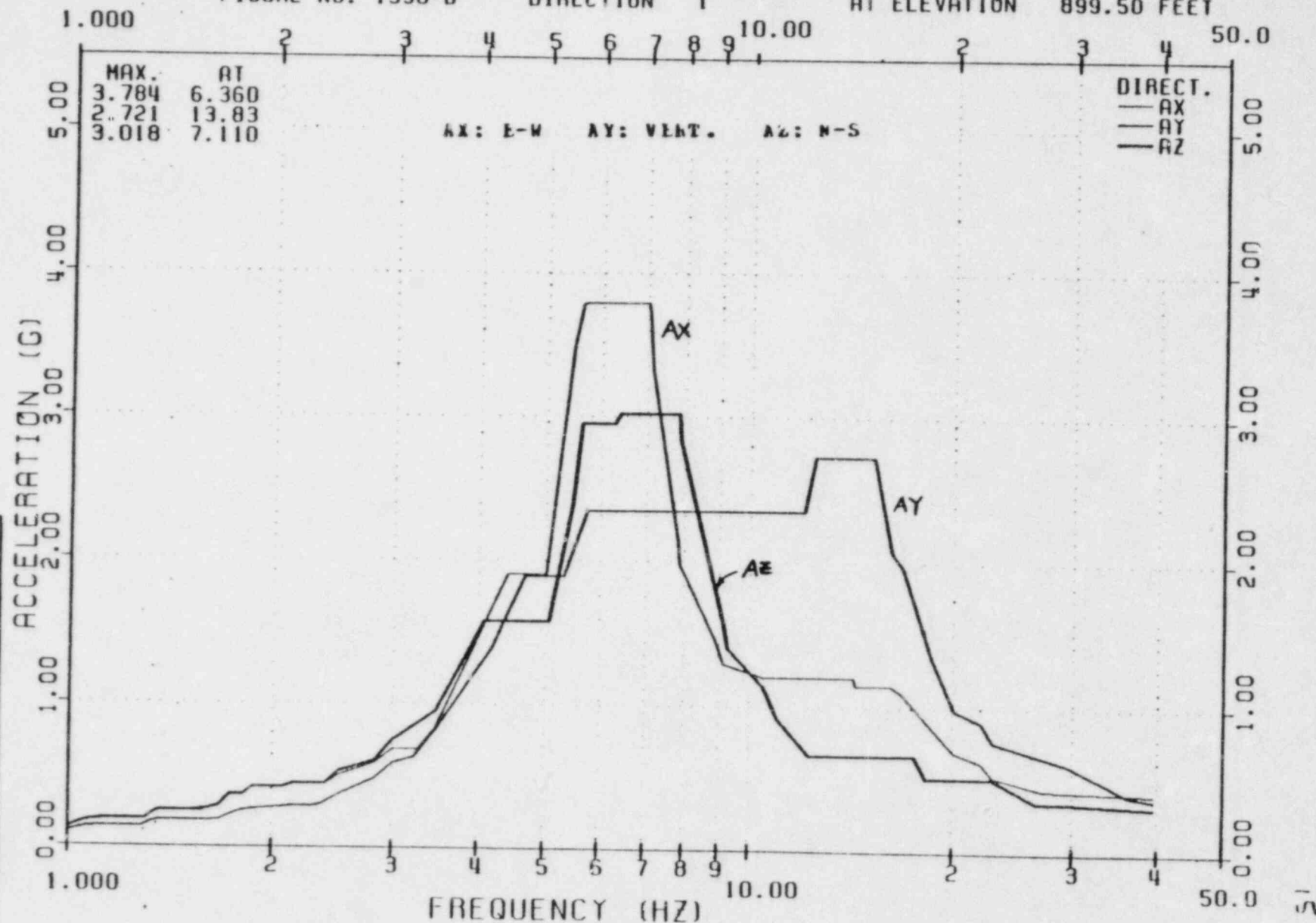
TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX ; DAMPING = 0.02

FIGURE NO. 1330-B

DIRECTION 1

AT ELEVATION 899.50 FEET



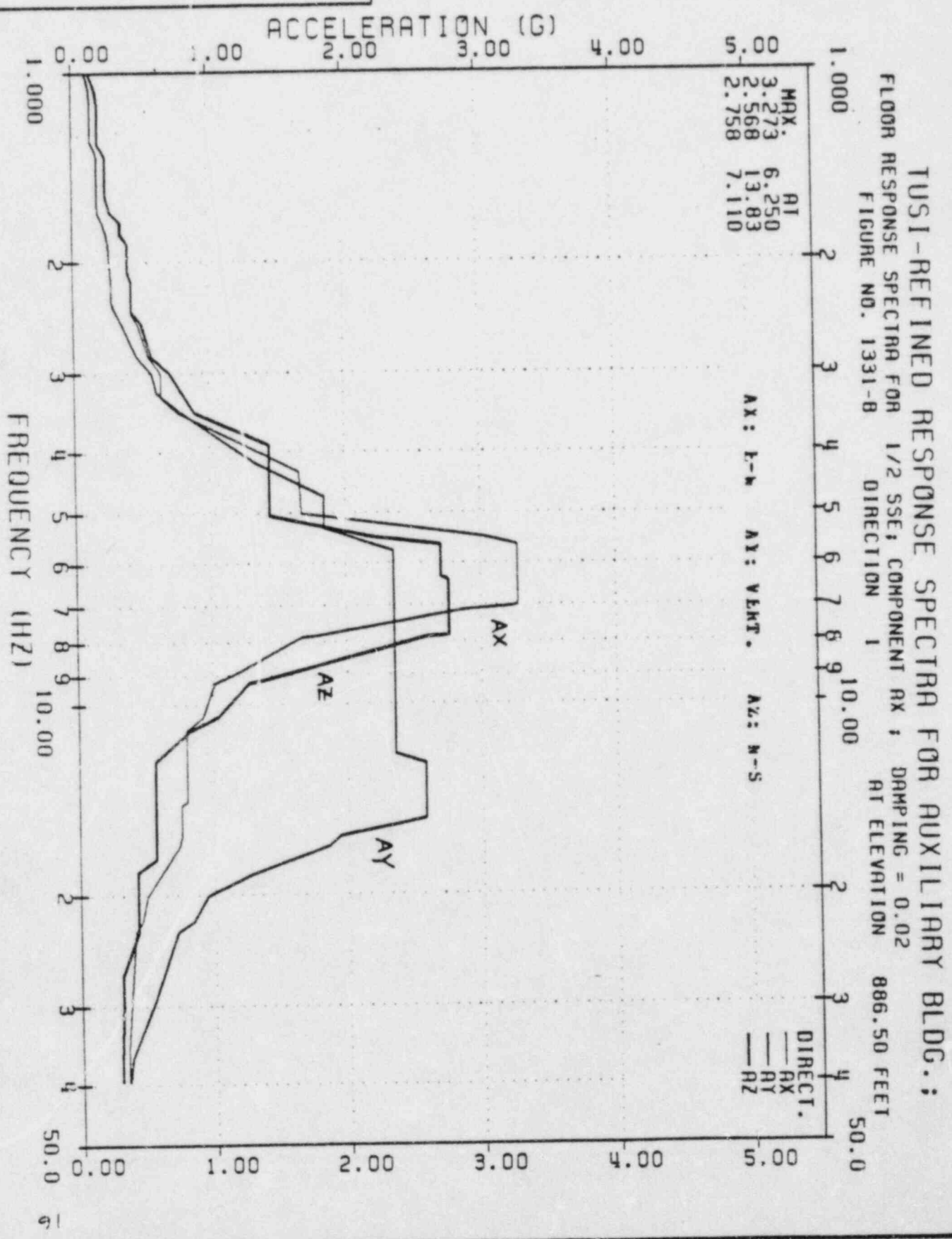
TUSI-AUXILIARY BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

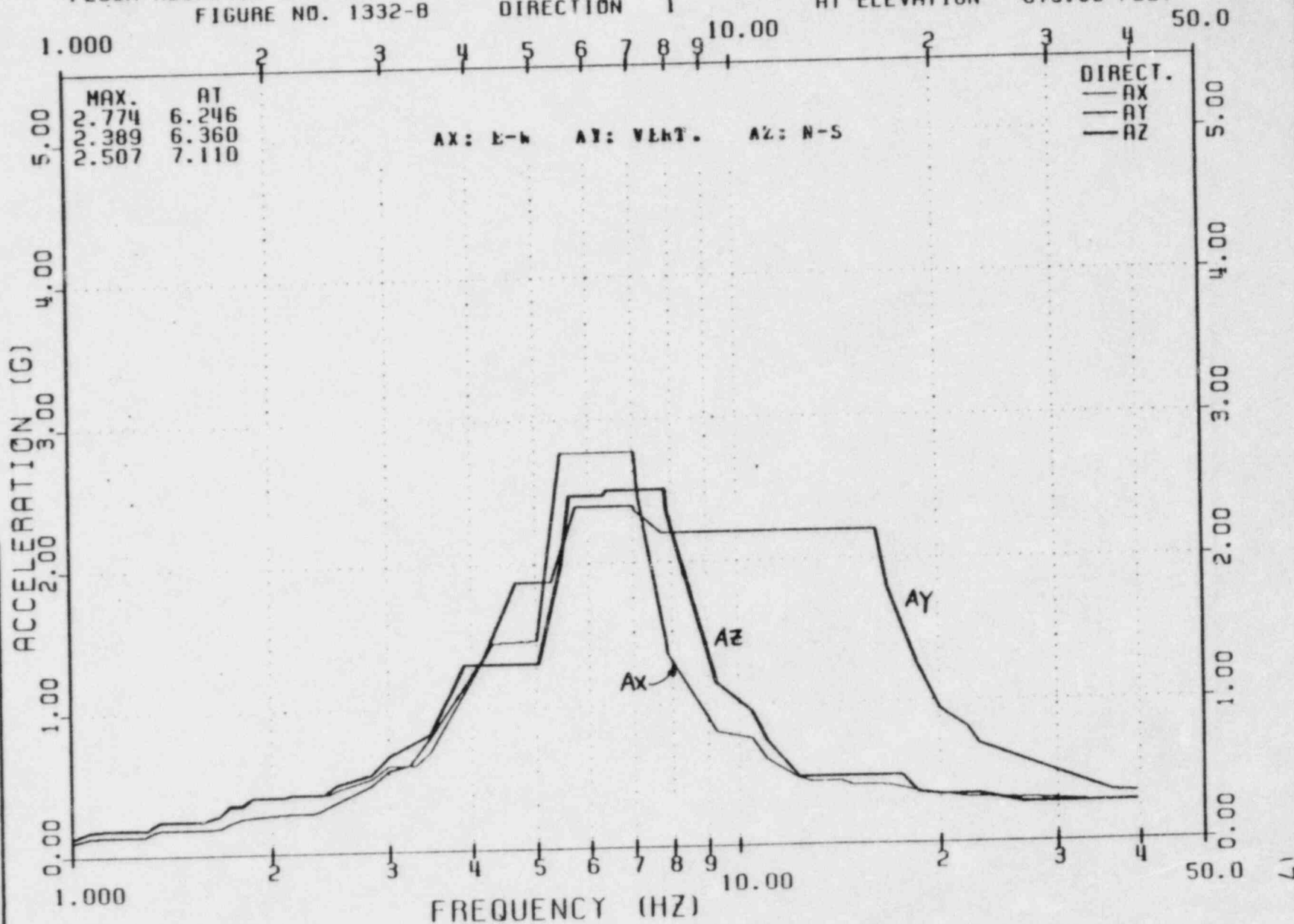
ENGINEERS, DESIGNERS, CONSTRUCTORS

DATE P.L.T. CHG. 1-10-68		ISSUED FOR		JOB NO. 2323	
REVISIONS		ENGINEERS, DESIGNERS, CONSULTANTS		GIBBS & HILL, INC.	
REFINED RESPONSE SPECTRA		TUSI-AUXILIARY BLDG.		FIGURE-1331-B	



# TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX; DAMPING = 0.02  
 FIGURE NO. 1332-B DIRECTION 1 AT ELEVATION 873.50 FEET



TUSI-AUXILIARY BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

JAN 46 2323

FIGURE-1332-B

0 11/18/60 WLT  
 1332-B  
 DATE 11/18/60  
 APPROVED

1332-B  
 DATE 11/18/60  
 APPROVED

1332-B

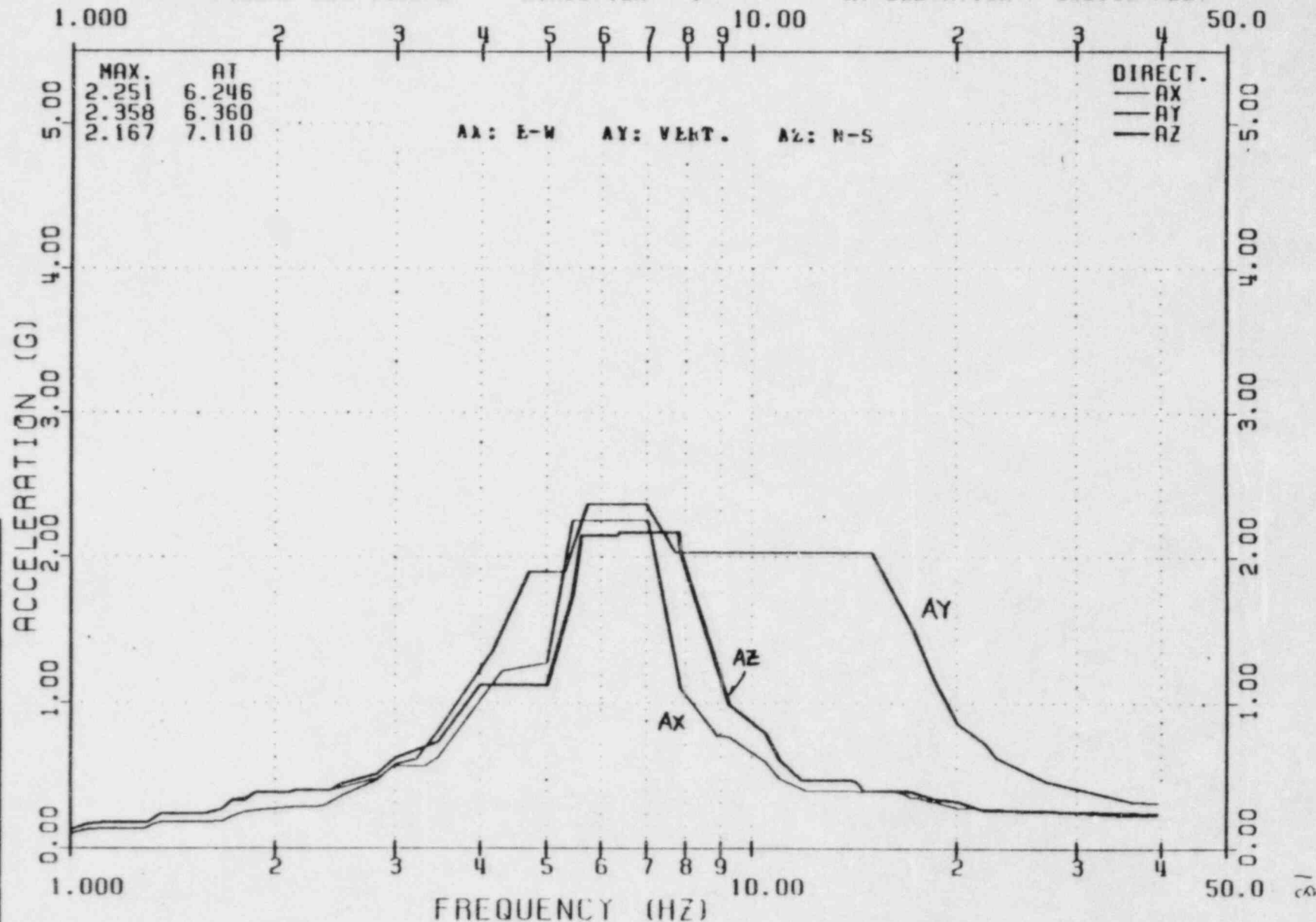
# TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX ; DAMPING = 0.02

FIGURE NO. 1333-B

DIRECTION 1

AT ELEVATION 852.50 FEET



TUSI-AUXILIARY BLDG.

REFINED RESPONSE SPECTRA

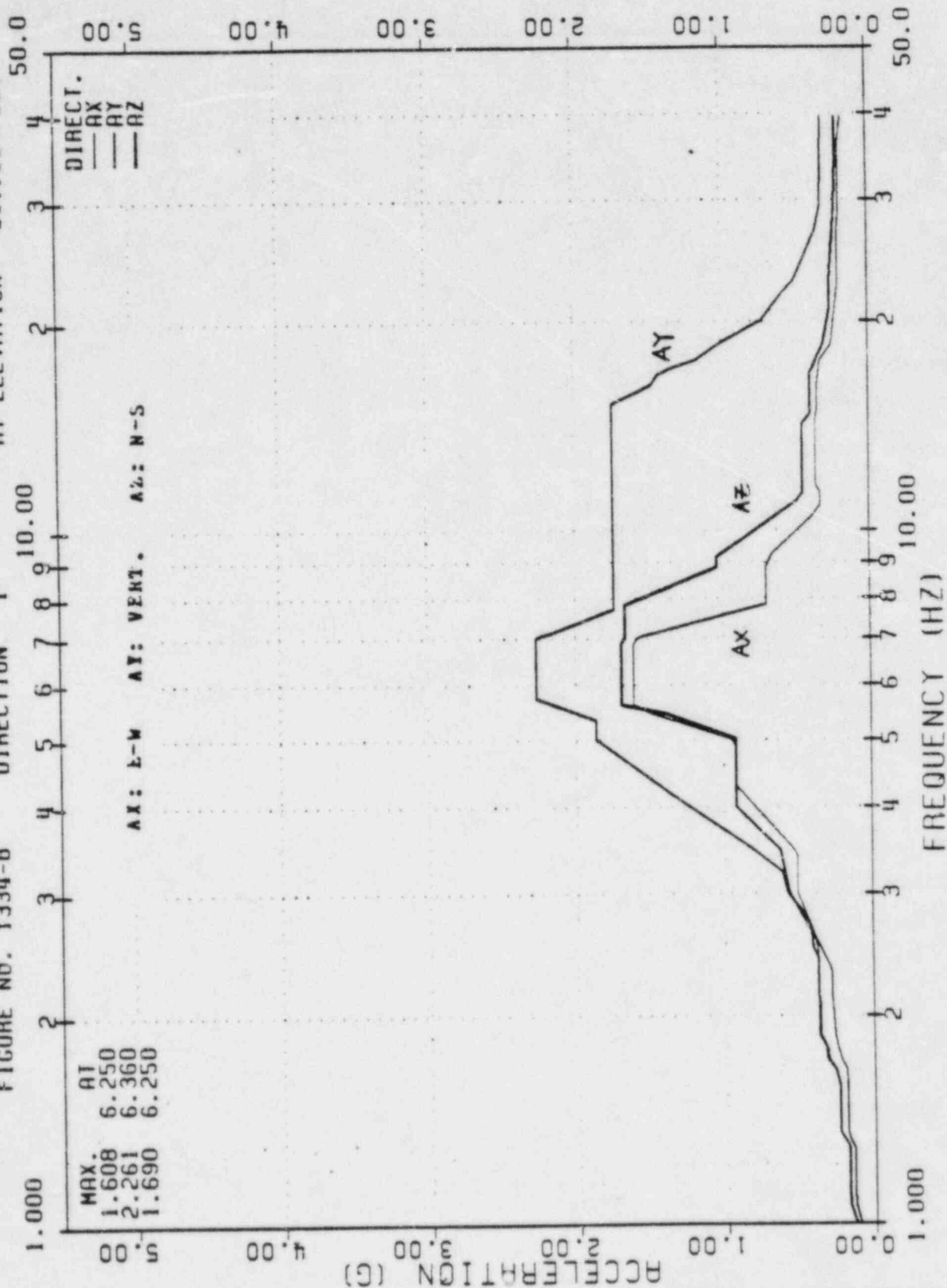
GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

FIGURE-1333-B

## TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.:

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX ; DAMPING = 0.02  
FIGURE NO. 1334-B DIRECTION 1 AT ELEVATION 831.50 FEET



TUSI-AUXILIARY BLDG.

REFINED RESPONSE SPECTRA

**GIBBS & HILL, INC.**  
ENGINEERS, DESIGNERS, CONSTRUCTORS  
MED. 7504

FIGURE-1334-B

0 11618 ADP WT

[illegible]

ISSUED FOR

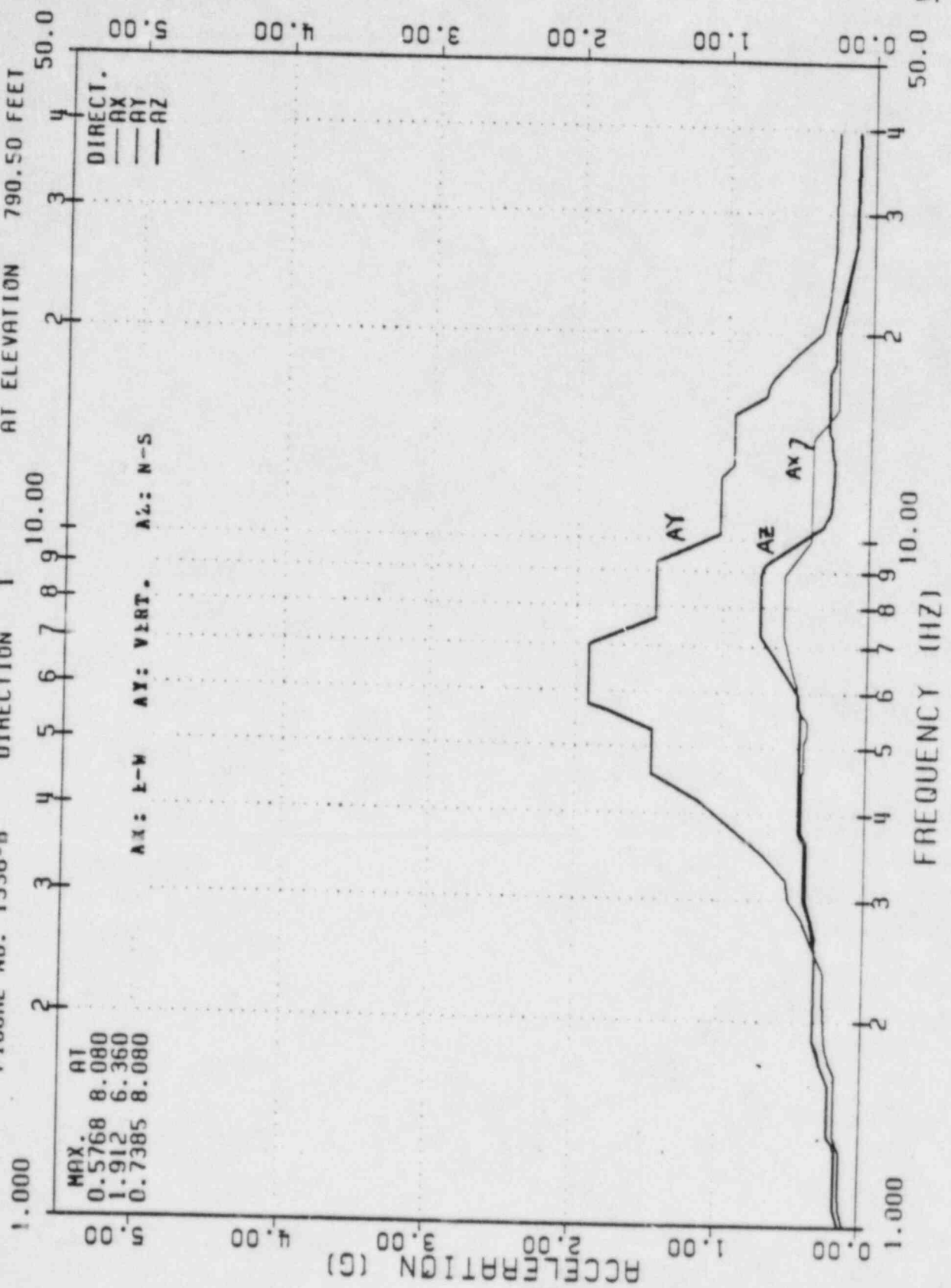
JOS NO. 2323





TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX; DAMPING = 0.02  
 FIGURE NO. 1336-B DIRECTION 1 AT ELEVATION 790.50 FEET



TUSI-AUXILIARY BLDG.

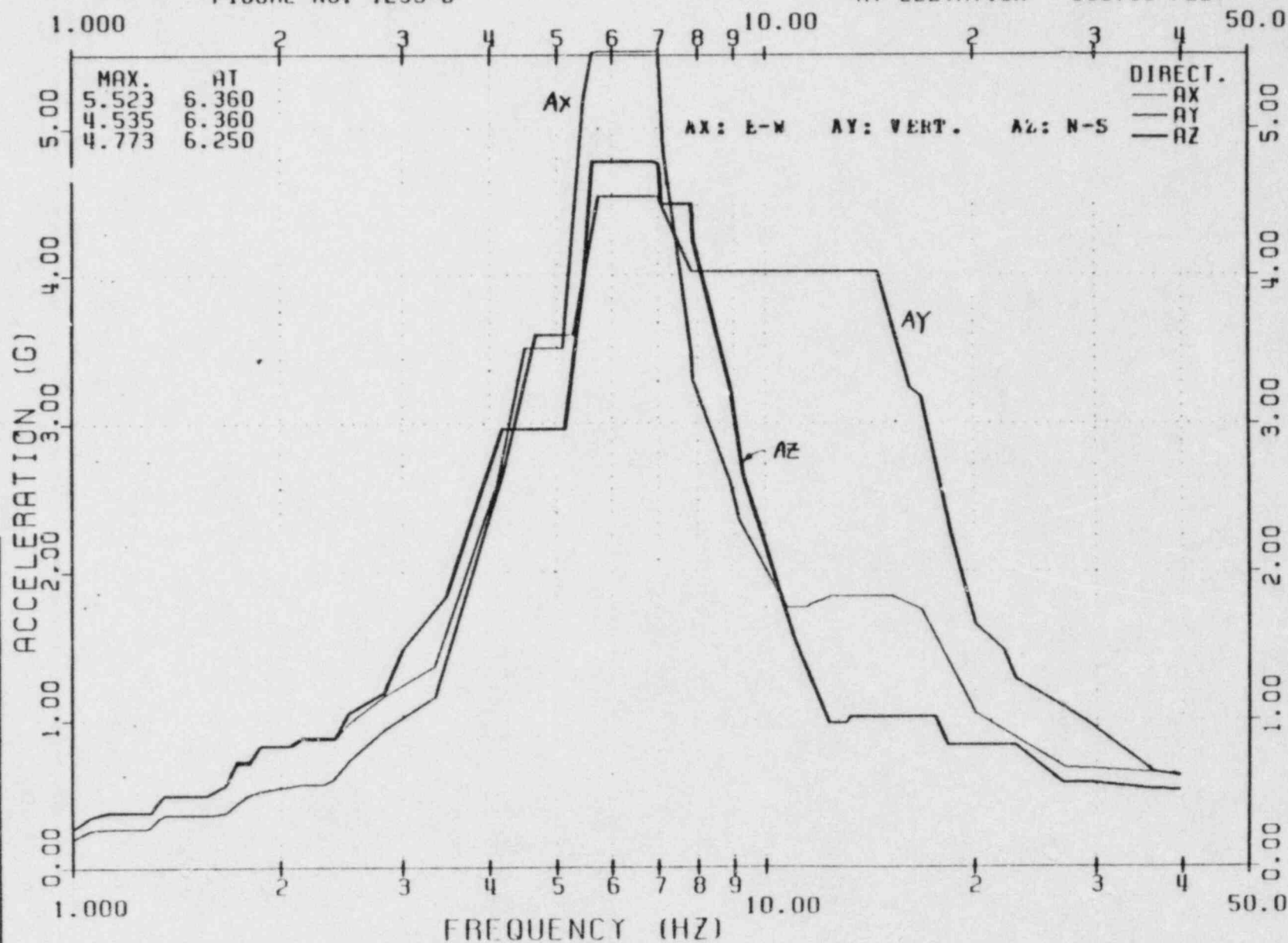
REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.  
 ENGINEERS, DESIGNERS, CONSTRUCTORS

FIGURE-1336-B

DATE	11/18/68	BY	W.T.
ISSUE	1	DATE	11/18/68
NO.	1336-B	DATE	11/18/68
APPROVALS			
ISSUED FOR			

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG. ;  
 FLOOR RESPONSE SPECTRA FOR SSE; DAMPING = 0.02  
 FIGURE NO. 1295-B AT ELEVATION 899.50 FEET



0 11/15/NOV 1971  
 DATE 11/15/NOV 1971  
 1295-B  
 TUSI-AUXILIARY BLDG.  
 REFINED RESPONSE SPECTRA  
 GIBBS & HILL, INC.  
 ENGINEERS, DESIGNERS, CONSTRUCTORS  
 JOB NO. 2325  
 FIGURE - 1295-B

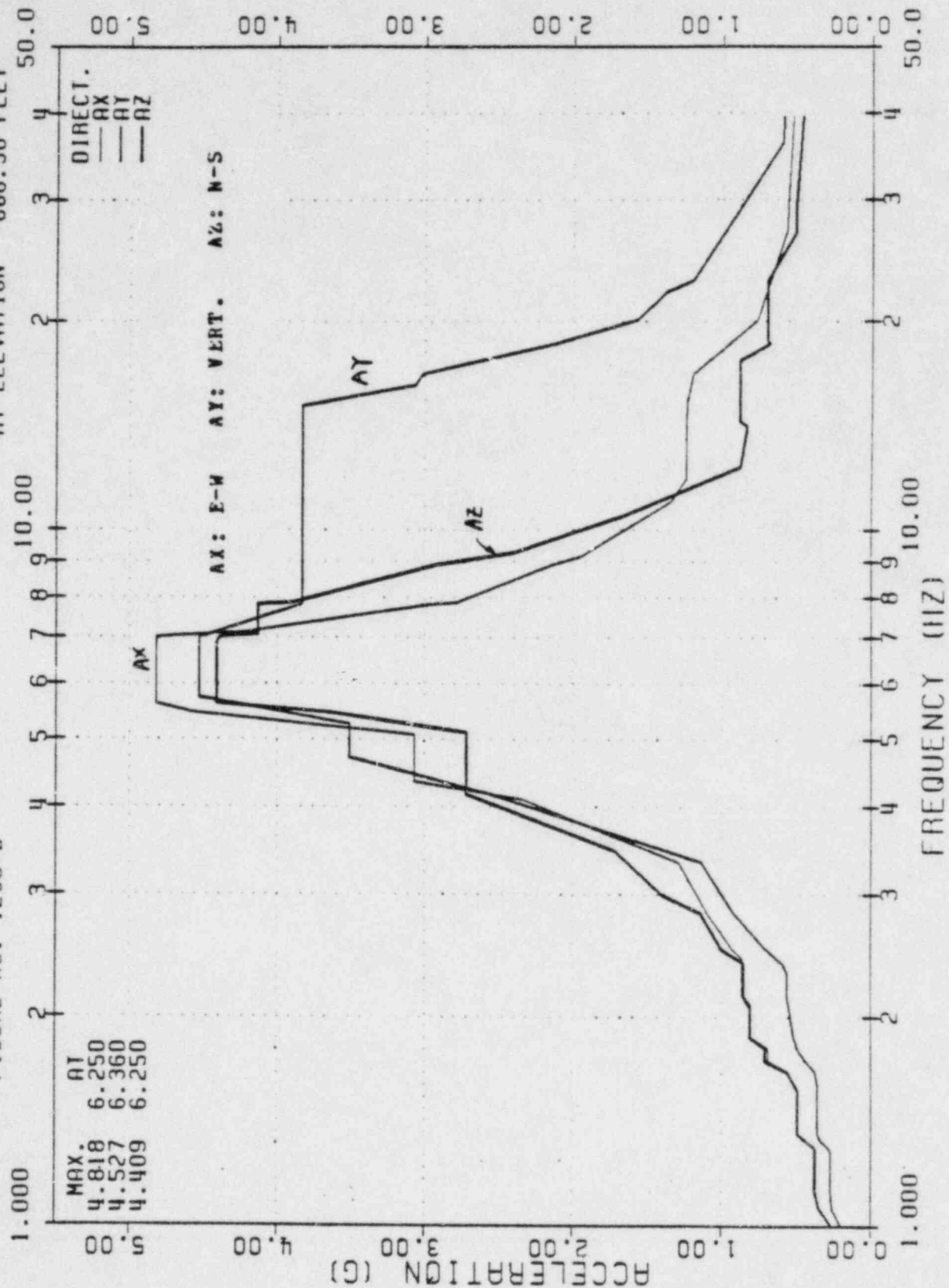
# TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE;

FIGURE NO. 1296-B

DAMPING = 0.02

AT ELEVATION 886.50 FEET



TUSI-AUXILIARY BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.  
ENGINEERS, DESIGNERS, CONSTRUCTORS

JOB NO. 2328

FIGURE-1296-B

0 11/18/68 RDP:WT

ISSUE NO. DATE PLTD. CHKD. 500. AND STRUCT. MECH. ELEC. MEAS. BLDG. SUP. P.R.

ISSUED FOR

APPROVALS



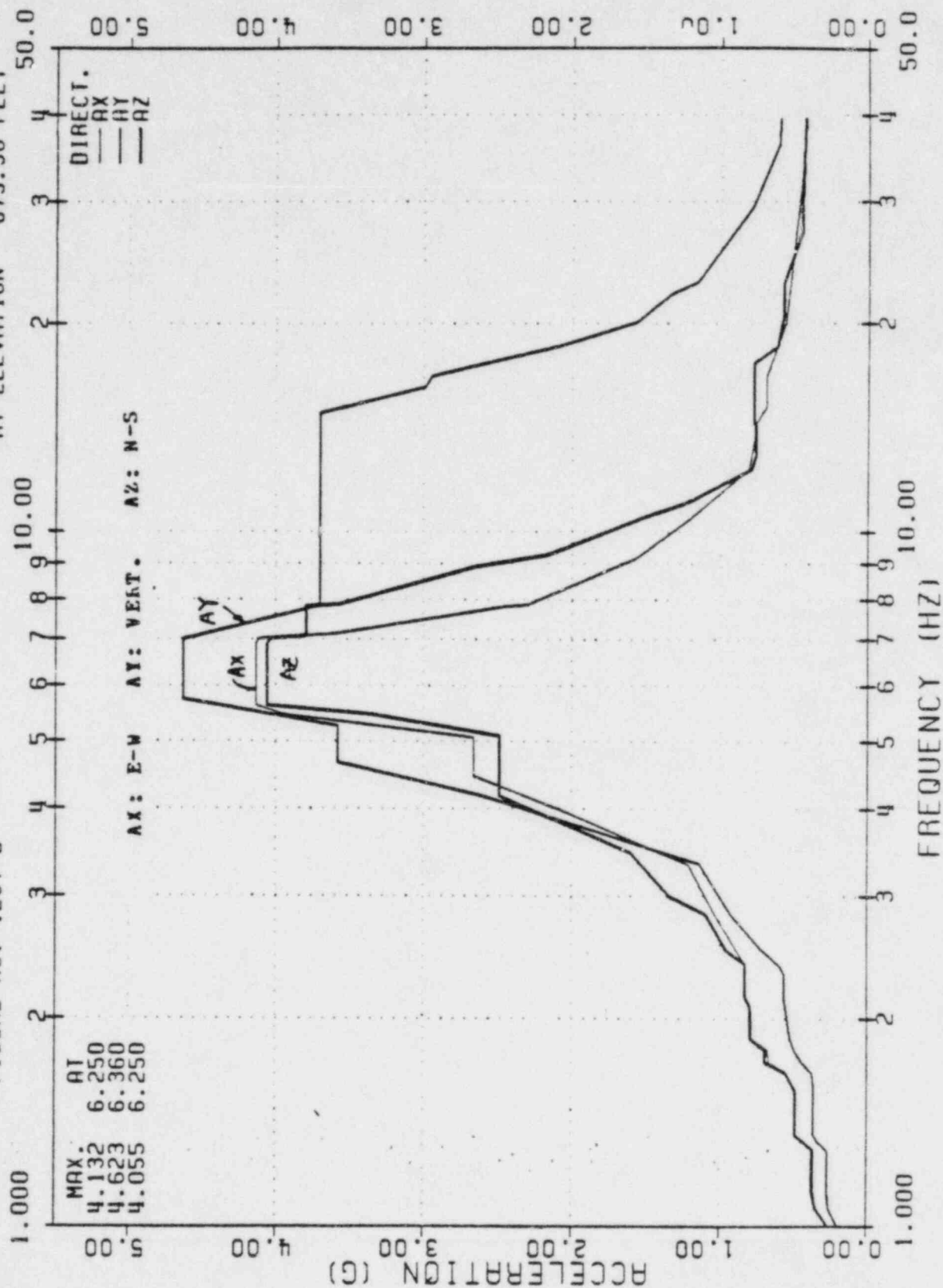
# TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE:

FIGURE NO. 1297-B

DAMPING = 0.02

AT ELEVATION 873.50 FEET



TUSI-AUXILIARY BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

ISS. NO. 2323

FIGURE-1297-B

ISSUE DATE 11/15/65  
 DATE PLT. CHG. 500.

ARCH. STMT. RECD. ELEC. REV. 3 DMS. DIV. P.R.

ISSUED FOR



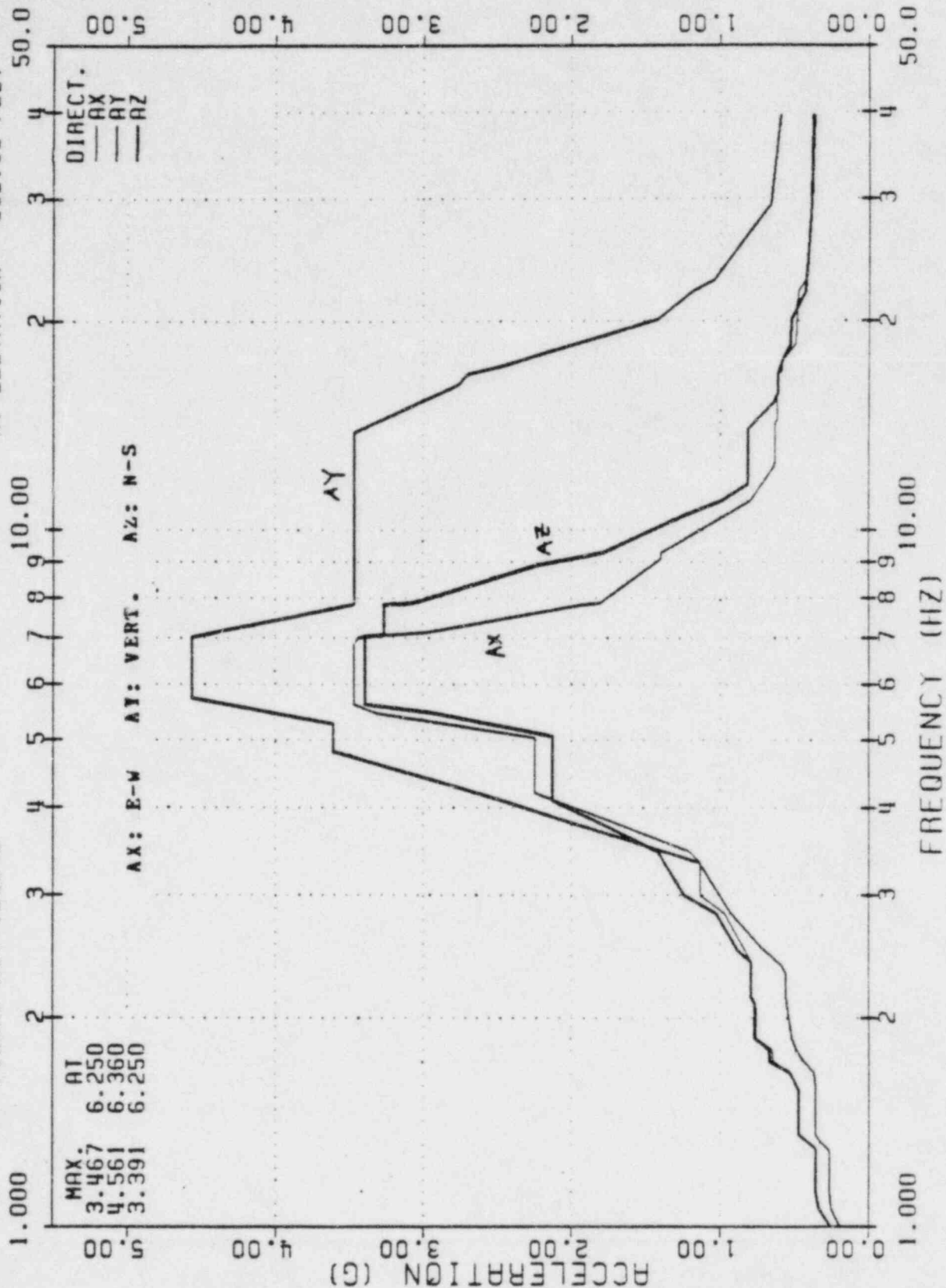
# TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE;

DAMPING = 0.02

FIGURE NO. 1298-B

AT ELEVATION 852.50 FEET



TUSI-AUXILIARY BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

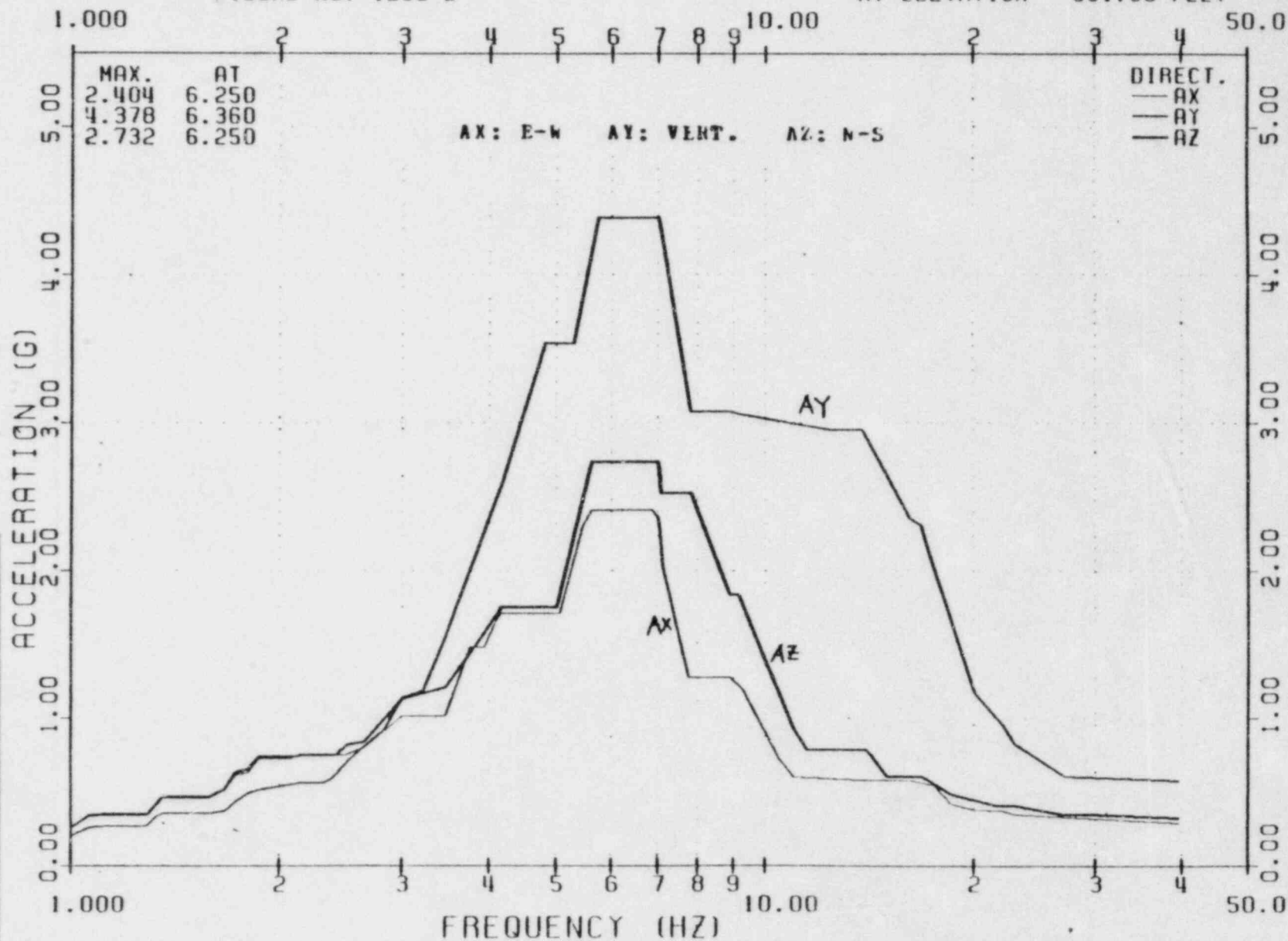
JOB NO. 2323

FIGURE-1298-B

DATE	PLD.	CHKD.	BY	APPROVED
01/16/50	ADP	WT		

ISSUED FOR

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG. ;  
 FLOOR RESPONSE SPECTRA FOR SSE; DAMPING = 0.02  
 FIGURE NO. 1299-B AT ELEVATION 831.50 FEET



TUSI-AUXILIARY BLDG.

REFINED RESPONSE SPECTRA

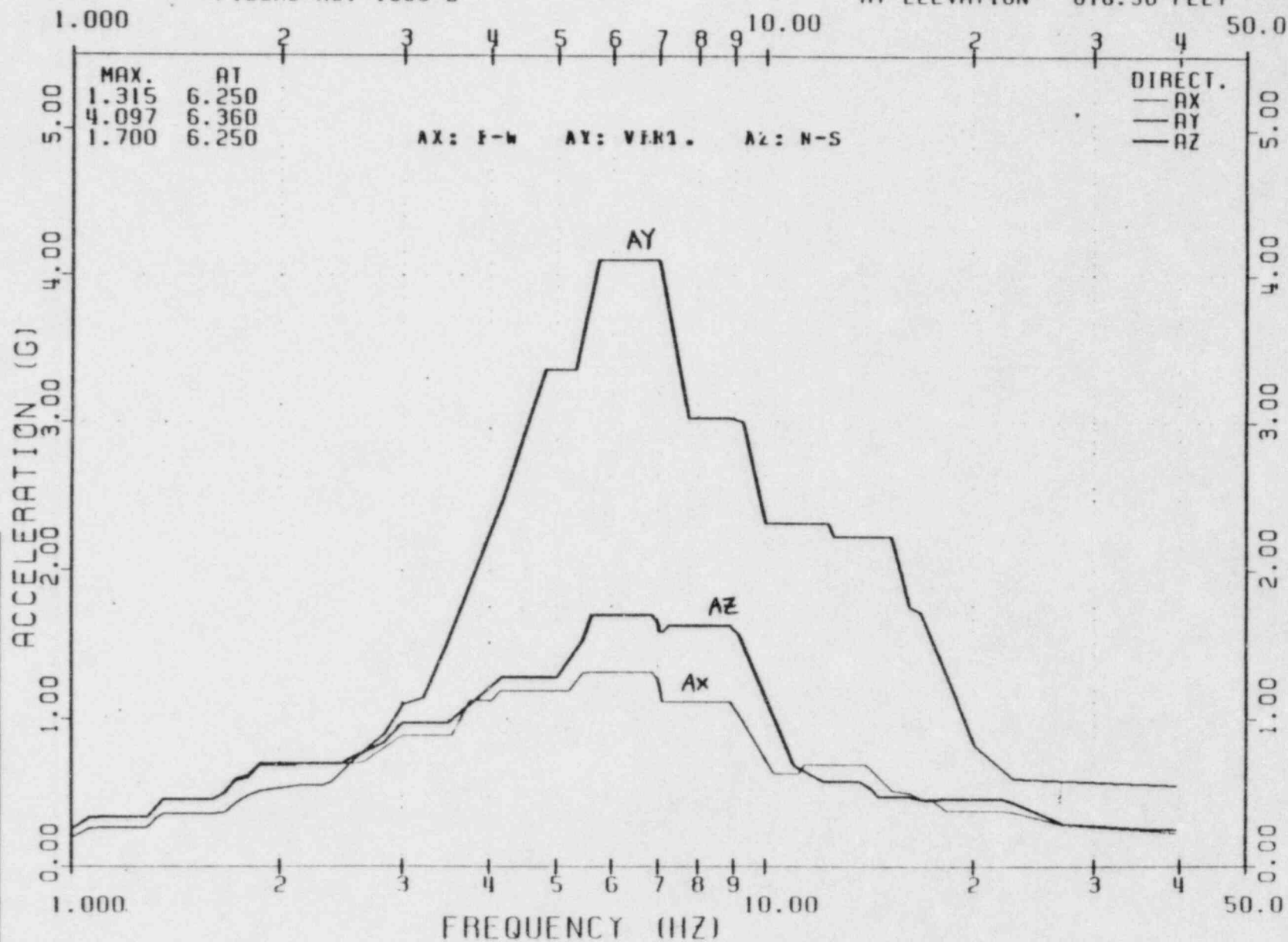
GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

JOB NO. 2323

FIGURE-1299-B

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG. ;  
 FLOOR RESPONSE SPECTRA FOR SSE; DAMPING = 0.02  
 FIGURE NO. 1300-B AT ELEVATION 810.50 FEET



TUSI-AUXILIARY BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

JOB NO. 2323

FIGURE-1300-B

0 11/13/60 WY

ISSUED FOR

1300-B

JOB NO. 2323

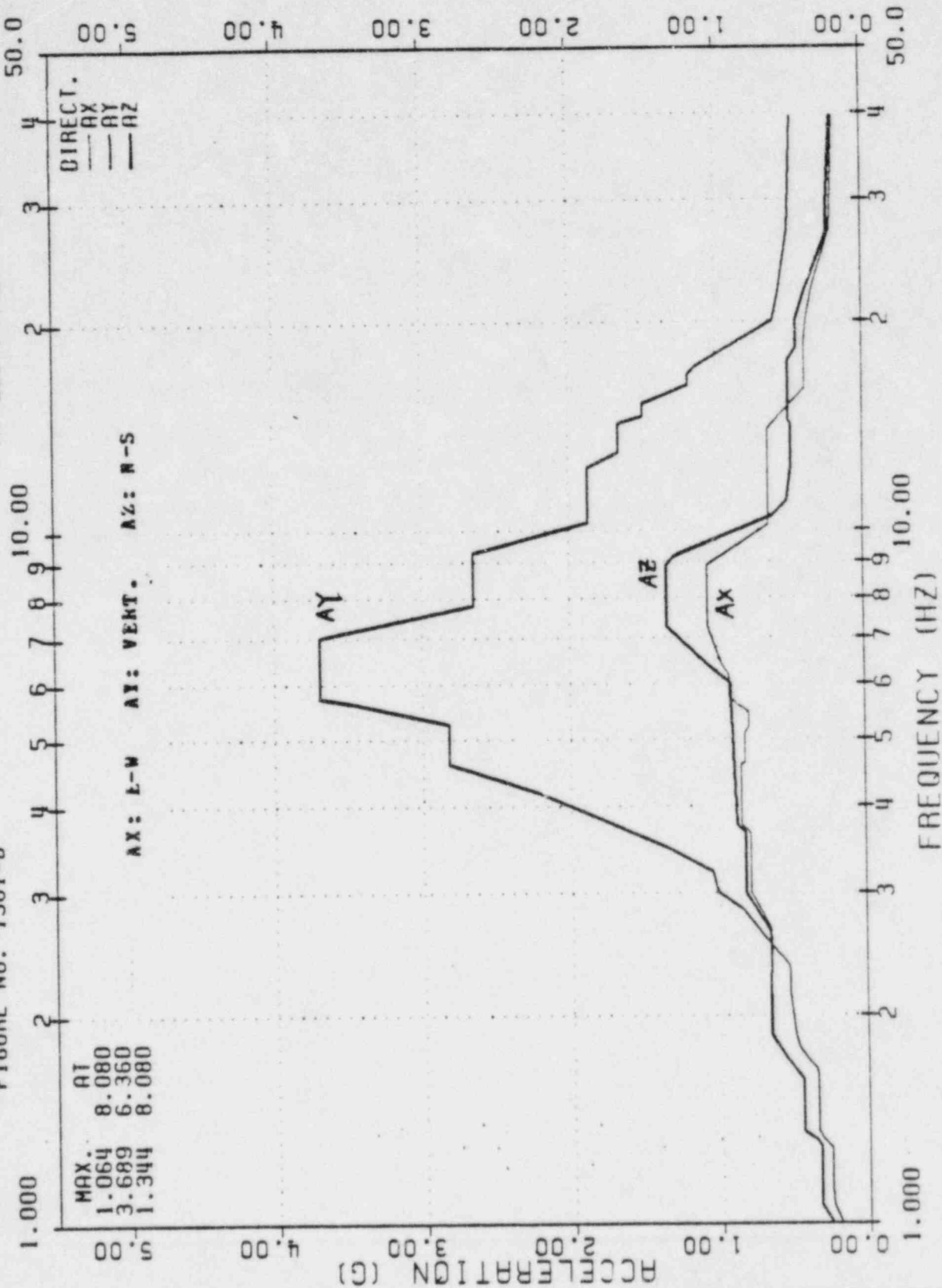
FIGURE-1300-B

# TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE;

FIGURE NO. 1301-B

DAMPING = 0.02  
AT ELEVATION 790.50 FEET



TUSI-AUXILIARY BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.  
ENGINEERS, DESIGNERS, CONSTRUCTORS

FIGURE-1301-B



# TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

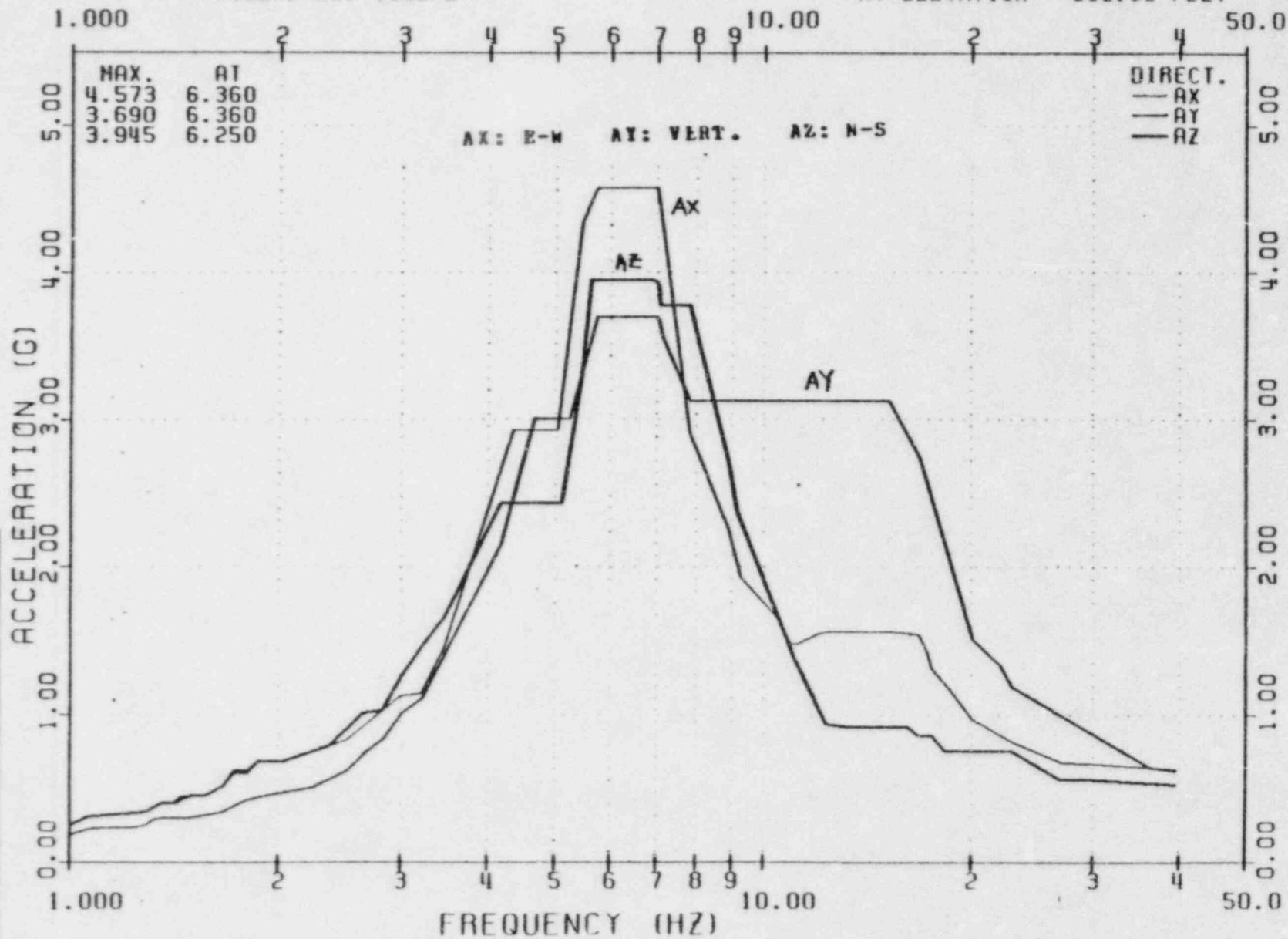
FLOOR RESPONSE SPECTRA FOR SSE;

DAMPING = 0.03

FIGURE NO. 1302-B

AT ELEVATION

899.50 FEET



TUSI-AUXILIARY BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

NEW YORK

JOB NO. 2323

FIGURE-1302-B

0 11/18/60 WJT

1302-B DATE P.L.T.C. 12/10/60 1302-B

ISSUED FOR



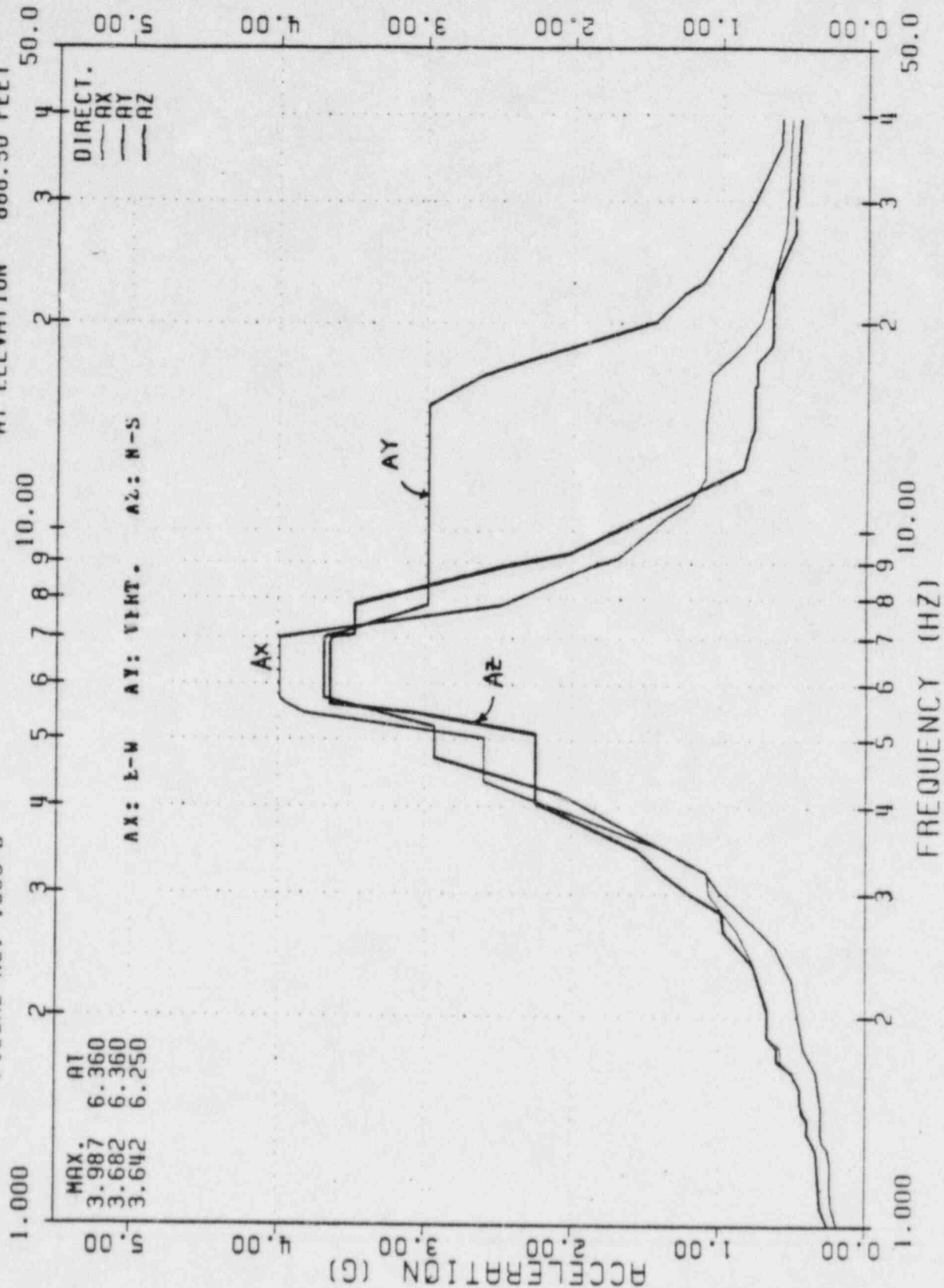
# TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE;

FIGURE NO. 1303-B

DAMPING = 0.03

AT ELEVATION 886.50 FEET



TUSI-AUXILIARY BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

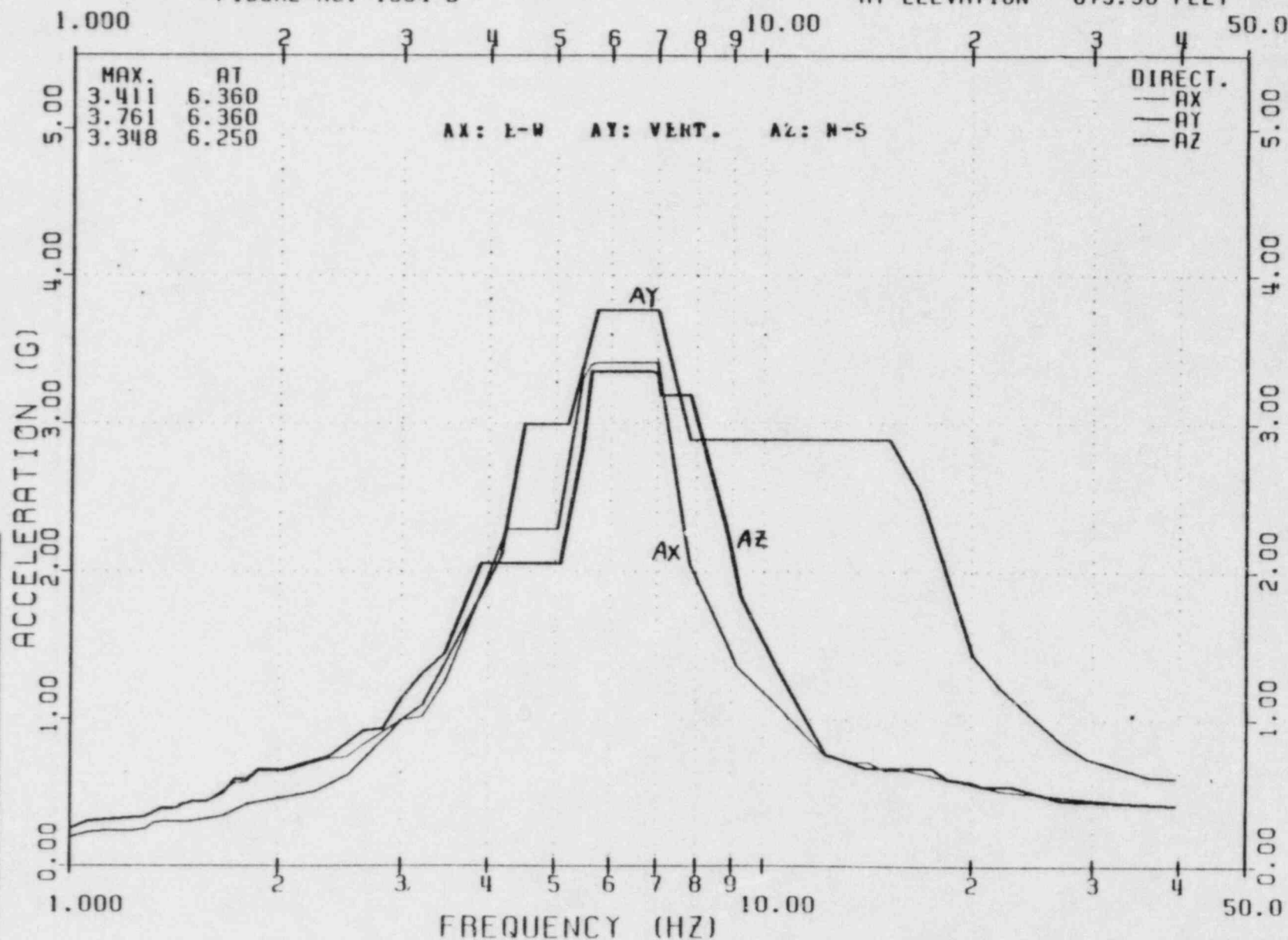
JOB NO. 2323

FIGURE-1303-B

ISSUE NO. DATE PLD. CHD. 500. ARCH. STRUCT. MECH. ELEC. MEAS. BLDG. ENV. P.A. APPROVALS

ISSUED FOR

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
 FLOOR RESPONSE SPECTRA FOR SSE; DAMPING = 0.03  
 FIGURE NO. 1304-B AT ELEVATION 873.50 FEET



TUSI-AUXILIARY BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

NEW YORK

JAN NO. 2323

FIGURE-1304-B

0 11/15/67

ISSUE DATE 11/15/67

NO. 1304-B

ISSUED FOR

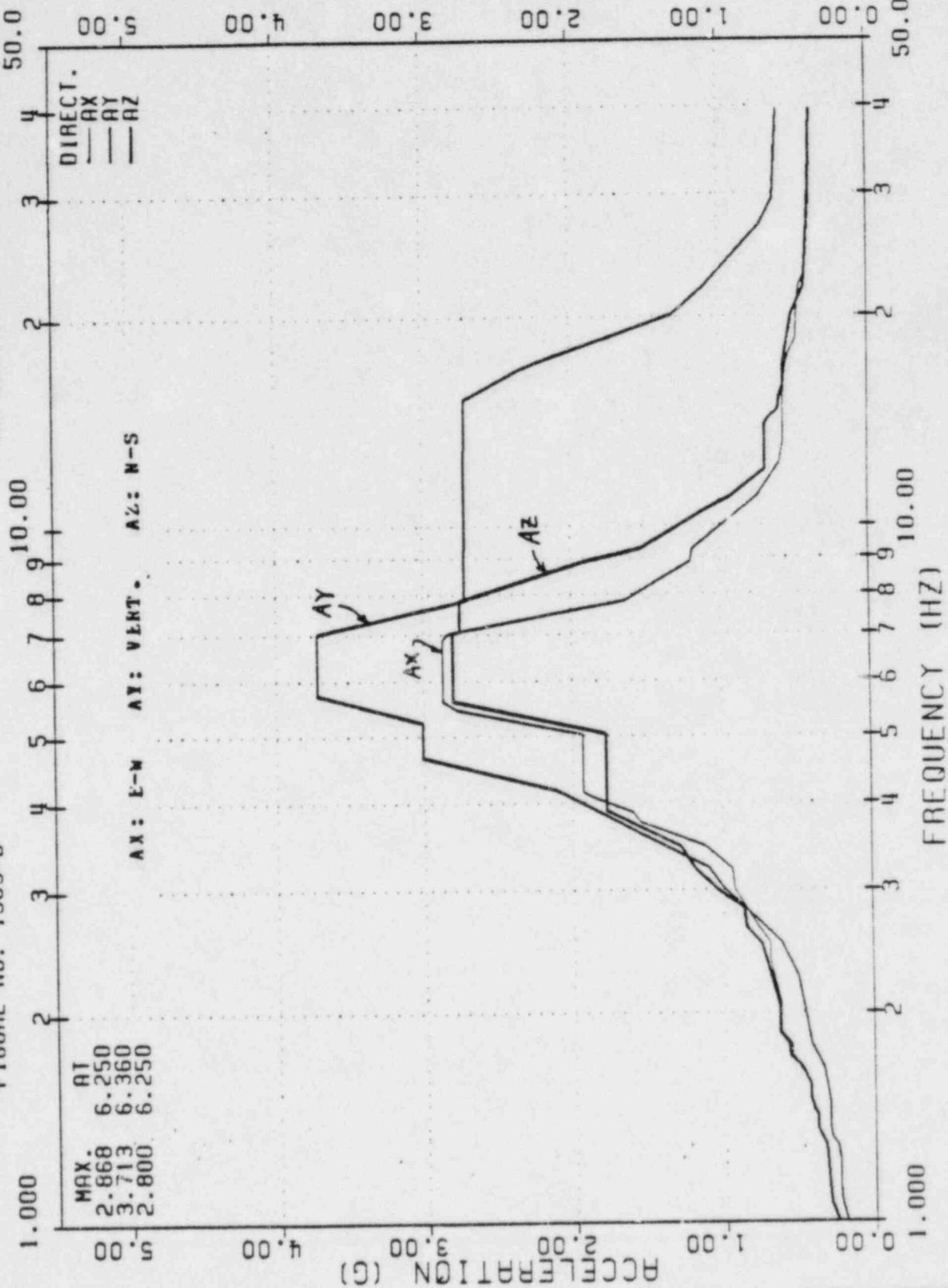
# TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE;

FIGURE NO. 1305-B

DAMPING = 0.03

AT ELEVATION 852.50 FEET



TUSI-AUXILIARY BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.  
 ENGINEERS, DESIGNERS, CONSTRUCTORS

FIGURE-1305-B

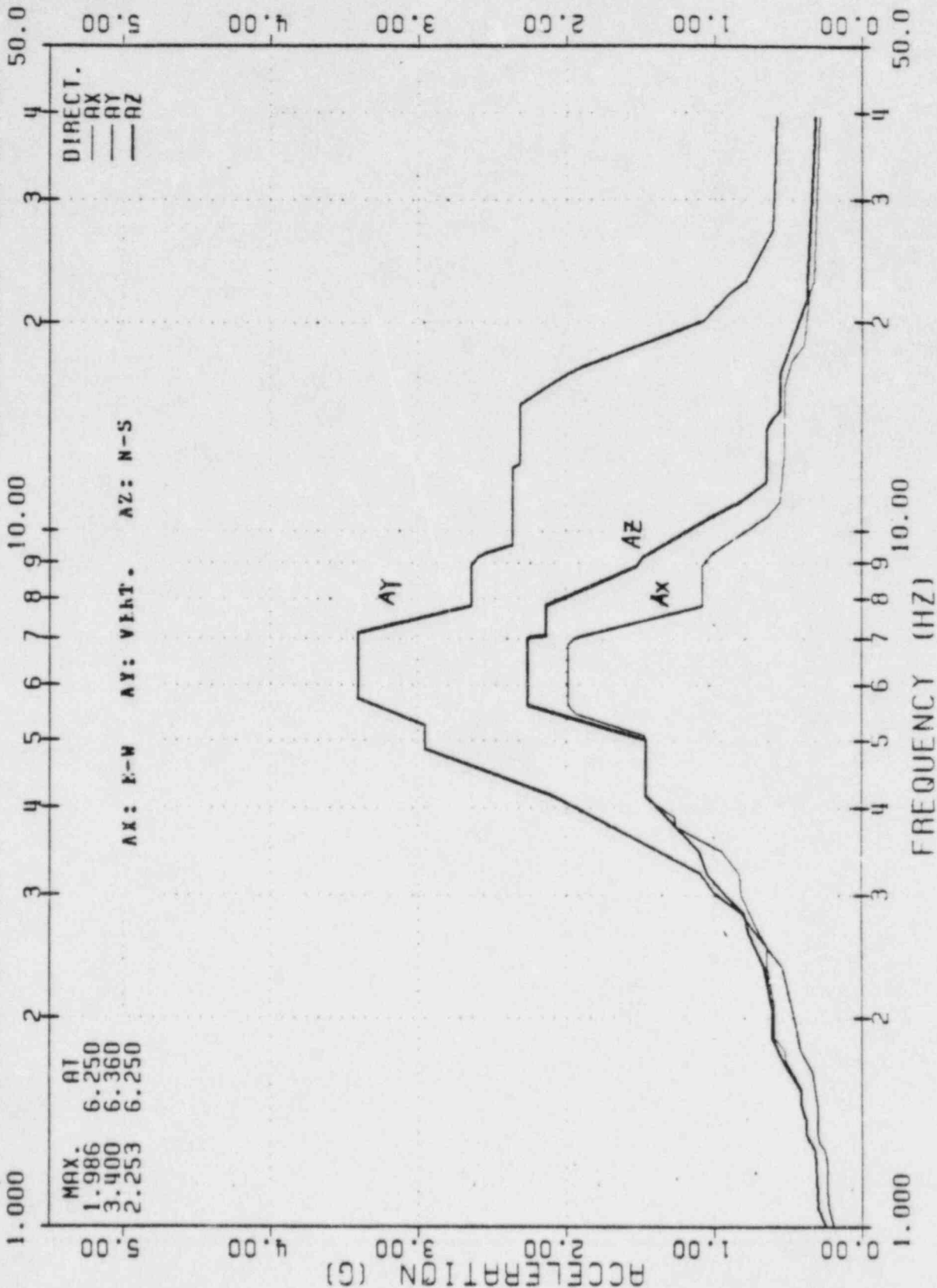
# TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE;

FIGURE NO. 1306-B

DAMPING = 0.03

AT ELEVATION 831.50 FEET



TUSI-AUXILIARY BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

JOB NO. 2323

FIGURE-1306-B

ISSUE NO. DATE PLTD. CHRG. LON

DRGN. STNCT. MECH. ELEC. DES. S. BOLD. ENV. P. R.

ISSUED FOR





# TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE;

FIGURE NO. 1308-B

DAMPING = 0.03

AT ELEVATION 790.50 FEET

MAX. AT  
0.8920 8.080  
3.009 6.360  
1.120 8.080

AX: E-W AY: VEKT. AZ: N-S

DIRECT.  
— AX  
— AY  
— AZ

ACCELERATION (G)

FREQUENCY (HZ)

TUSI-AUXILIARY BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.  
ENGINEERS, DESIGNERS, CONSTRUCTORS  
NEW YORK

FIGURE-1308-B

JOB NO. 2323

ISSUED FOR

ARCH. STRUCT. MECH. ELEC. MECH. CIVIL. ENV. P.E.  
APPROVALS

ISSUE NO. DATE PLTD. CHRG. 900. 100

11-60

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX; DAMPING = 0.01

FIGURE NO. 1323-B

DIRECTION 1

AT ELEVATION 899.50 FEET

SET NO. = 1

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1323

DEGREE OF FREEDOM =

NUMBER OF GRIDS = 49

DAMPING VALUE = 0.010

1	0.9000	0.14411	2	0.9450	0.14896	3	1.0099	0.14896	4	1.0620	0.20504
5	1.1250	0.23107	6	1.3035	0.23107	7	1.3590	0.32057	8	1.4040	0.32189
9	1.6676	0.32189	10	1.7280	0.42918	11	1.8000	0.43966	12	1.8720	0.50995
13	1.9530	0.52023	14	2.0786	0.52023	15	2.1420	0.59674	16	2.4810	0.59674
17	2.5020	0.62056	18	2.6460	0.62541	19	2.8170	0.79331	20	2.9970	0.91630
21	3.3318	0.91630	22	3.4650	1.06358	23	3.7530	1.65148	24	3.8790	1.67626
25	4.1490	2.31555	26	4.5000	2.57303	27	5.0399	2.57303	28	5.4630	5.22281
29	5.6250	5.24181	30	5.7510	5.41805	31	7.0290	5.41805	32	7.1280	5.21607
33	7.8210	2.54377	34	7.8540	2.27368	35	9.2730	1.73457	36	13.9370	1.73457
37	14.2120	1.67413	38	14.5478	1.46469	39	15.2130	1.46469	40	15.2570	1.39014
41	16.7420	1.36138	42	17.0291	1.20621	43	17.5120	1.20621	44	18.5460	1.03355
45	20.0310	0.75444	46	22.0000	0.73922	47	22.8690	0.56375	48	27.0930	0.42775
49	39.5000	0.40400									

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX; DAMPING = 0.01

FIGURE NO. 1324-B

DIRECTION 1

AT ELEVATION 886.50 FEET

SET NO. = 2

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1324

DEGREE OF FREEDOM =

NUMBER OF GRIDS = 48

DAMPING VALUE = 0.010

1	0.9000	0.14259	2	0.9450	0.14757	3	1.0105	0.14757	4	1.0620	0.20254
5	1.1250	0.22800	6	1.3039	0.22800	7	1.3590	0.31648	8	1.4040	0.31835
9	1.6692	0.31835	10	1.7280	0.41817	11	1.8000	0.43003	12	1.8720	0.49731
13	1.9530	0.50702	14	2.0802	0.50702	15	2.1420	0.57811	16	2.4909	0.57811
17	2.5020	0.58950	18	2.6460	0.59943	19	2.8170	0.75204	20	2.9970	0.86977
21	3.3562	0.86977	22	3.4650	0.97143	23	3.7530	1.49489	24	3.8790	1.51469
25	4.1490	2.06144	26	4.5000	2.24994	27	5.0322	2.24994	28	5.4630	4.55652
29	5.6250	4.57322	30	5.7510	4.71366	31	7.0290	4.71366	32	7.1280	4.53803
33	7.8210	2.15884	34	7.8540	1.92665	35	8.8880	1.40789	36	9.2730	1.17450
37	13.9370	1.17450	38	14.2120	1.10747	39	14.6235	0.93670	40	15.2130	0.93670
41	16.7420	0.89881	42	17.0121	0.80833	43	17.5120	0.80833	44	19.9312	0.53801
45	22.0000	0.53801	46	22.8690	0.43001	47	29.4140	0.36391	48	39.5000	0.34553

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX; DAMPING = 0.01

FIGURE NO. 1325-B

DIRECTION 1

AT ELEVATION 873.50 FEET

SET NO. = 3

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1325

DEGREE OF FREEDOM =

NUMBER OF GRIDS = 48

DAMPING VALUE = 0.010

1	0.9000	0.14110	2	0.9450	0.14621	3	1.0111	0.14621	4	1.0620	0.20007
5	1.1250	0.22496	6	1.3043	0.22496	7	1.3590	0.31249	8	1.4040	0.31490
9	1.6710	0.31490	10	1.7280	0.40731	11	1.8000	0.42059	12	1.8720	0.48484
13	1.9530	0.49397	14	2.0819	0.49397	15	2.1420	0.55973	16	2.5108	0.55973
17	2.6460	0.57393	18	2.8170	0.71126	19	2.9970	0.82391	20	3.3913	0.82391
21	3.4650	0.88020	22	3.7530	1.33989	23	3.8790	1.35476	24	4.1490	1.80923
25	4.5000	1.92949	26	5.0211	1.92949	27	5.4630	3.89919	28	5.6250	3.91448
29	5.7510	4.01954	30	7.0290	4.01954	31	7.1280	3.76070	32	7.8210	1.78146
33	7.8540	1.58651	34	8.8880	1.11799	35	9.2730	0.94105	36	10.4940	0.88313
37	11.0380	0.64639	38	11.3086	0.62560	39	13.9370	0.62560	40	14.6369	0.46704
41	16.7420	0.46704	42	16.8697	0.45077	43	17.5120	0.45077	44	19.8477	0.34938

45 22.0000 0.34938 46 29.4140 0.31287 47 32.5633 0.29388 48 39.5000 0.29388

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX; DAMPING = 0.01

FIGURE NO. 1326-B DIRECTION 1 AT ELEVATION 852.50 FEET

SET NO. = 4

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1326				DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 48		DAMPING VALUE = 0.010			
1	0.9000	0.13919	2	0.9450	0.14452	3	1.0117	0.14452	4	1.0620	0.19754
5	1.1250	0.22102	6	1.3052	0.22102	7	1.3590	0.30736	8	1.4040	0.31100
9	1.6735	0.31100	10	1.7280	0.39393	11	1.8000	0.41040	12	1.8720	0.46968
13	1.9530	0.47765	14	2.0841	0.47765	15	2.1420	0.53681	16	2.6082	0.53681
17	2.6460	0.54213	18	2.8170	0.66129	19	2.9970	0.76743	20	3.4626	0.76743
21	3.4650	0.76876	22	3.7530	1.16601	23	3.8852	1.16601	24	4.1490	1.50319
25	4.5000	1.54315	26	5.0040	1.58858	27	5.4630	3.24947	28	7.1280	3.24947
29	7.2210	1.40462	30	7.8540	1.24331	31	8.8880	0.88664	32	9.2730	0.88000
33	10.4940	0.66249	34	11.0000	0.49234	35	11.3140	0.47769	36	13.9370	0.47769
37	14.2120	0.46363	38	14.4746	0.42280	39	15.2130	0.42280	40	16.7420	0.41753
41	16.7880	0.41091	42	17.5120	0.41091	43	18.5460	0.32765	44	19.4584	0.30289
45	22.0000	0.30289	46	29.4140	0.24415	47	32.8261	0.23482	48	39.5000	0.23482

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX; DAMPING = 0.01

FIGURE NO. 1327-B DIRECTION 1 AT ELEVATION 831.50 FEET

SET NO. = 5

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1327				DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 50		DAMPING VALUE = 0.010			
1	0.9000	0.13672	2	0.9450	0.14233	3	1.0125	0.14233	4	1.0620	0.19310
5	1.1250	0.21441	6	1.3101	0.21441	7	1.3230	0.23157	8	1.3590	0.30056
9	1.4040	0.30406	10	1.6771	0.30406	11	1.7280	0.37493	12	1.8720	0.44816
13	1.9530	0.45460	14	2.0882	0.45460	15	2.1420	0.50511	16	2.6180	0.50511
17	2.6264	0.49693	18	2.6460	0.49693	19	2.8170	0.59245	20	2.9970	0.68600
21	3.5194	0.68600	22	3.7530	0.93998	23	3.9194	0.93998	24	4.1490	1.13024
25	4.7177	1.13024	26	5.0040	1.18361	27	5.4630	2.16434	28	5.7510	2.22086
29	7.0290	2.22086	30	7.1280	2.11499	31	7.8210	0.83523	32	7.8322	0.80819
33	8.8880	0.80819	34	9.1630	0.78456	35	9.2730	0.75929	36	10.4940	0.47658
37	13.9370	0.47658	38	14.6630	0.42950	39	15.0188	0.40482	40	16.7420	0.40482
41	16.7513	0.40324	42	17.5120	0.40324	43	18.5460	0.25984	44	20.0310	0.23646
45	22.0000	0.23553	46	22.3979	0.21717	47	27.0930	0.21717	48	28.2181	0.20414
49	36.3000	0.20414	50	39.5000	0.17052						

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX; DAMPING = 0.01

FIGURE NO. 1328-B DIRECTION 1 AT ELEVATION 810.50 FEET

SET NO. = 6

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1328				DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 44		DAMPING VALUE = 0.010			
1	0.9000	0.13416	2	0.9450	0.14000	3	1.0118	0.14000	4	1.0620	0.19010
5	1.1250	0.20790	6	1.3110	0.20790	7	1.3230	0.22365	8	1.3590	0.29256
9	1.4040	0.29647	10	1.6821	0.29647	11	1.7280	0.35366	12	1.8720	0.42591
13	1.9530	0.42960	14	2.0915	0.42960	15	2.1420	0.47324	16	2.6180	0.47324
17	2.6449	0.44785	18	2.6460	0.44785	19	2.9970	0.59998	20	3.6115	0.59998
21	3.7530	0.70775	22	4.0125	0.70775	23	4.1490	0.76215	24	5.0006	0.76215
25	5.0040	0.76250	26	5.4630	1.17243	27	6.6770	1.17243	28	7.0290	1.14066
29	7.6655	0.72590	30	8.8880	0.72590	31	9.1630	0.64317	32	13.9370	0.64317
33	14.6630	0.47287	34	15.1948	0.33666	35	16.7420	0.33666	36	16.9350	0.30331
37	17.5120	0.30331	38	17.7781	0.27543	39	22.0000	0.27543	40	22.8690	0.24333
41	27.0930	0.18641	42	29.4140	0.15654	43	36.3403	0.12957	44	39.5000	0.12957

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

SET NO. = 7

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX ; DAMPING = 0.01  
 FIGURE NO. 1329-B DIRECTION 1 AT ELEVATION 790.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1329 DEGREE OF FREEDOM = 1 NUMBER OF GRIDS = 38 DAMPING VALUE = 0.010

1	0.9000	0.13205	2	0.9450	0.13796	3	1.0103	0.13796	4	1.0620	0.18929
5	1.1250	0.20201	6	1.3114	0.20201	7	1.3230	0.21657	8	1.3590	0.28616
9	1.4046	0.29093	10	1.6879	0.29093	11	1.7280	0.33629	12	1.8720	0.40779
13	2.0951	0.40779	14	2.1420	0.44524	15	2.7551	0.44524	16	2.8170	0.45758
17	2.9970	0.52735	18	3.6630	0.52735	19	3.6684	0.52445	20	4.5870	0.52445
21	4.6156	0.51091	22	5.2754	0.51091	23	5.4630	0.55853	24	5.7240	0.59858
25	5.7510	0.61724	26	5.8320	0.61843	27	6.8086	0.61843	28	7.2720	0.69387
29	8.8880	0.69387	30	9.1630	0.59366	31	13.9370	0.59366	32	15.2570	0.28646
33	15.5676	0.26256	34	20.0310	0.26256	35	22.0000	0.25398	36	22.8690	0.20832
37	27.0930	0.12750	38	39.5000	0.09949						

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY ; DAMPING = 0.01  
 FIGURE NO. 1323-B DIRECTION 2 AT ELEVATION 899.50 FEET SET NO. = 8 NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1323 DEGREE OF FREEDOM = 2 NUMBER OF GRIDS = 44 DAMPING VALUE = 0.010

1	0.9000	0.10544	2	0.9450	0.10702	3	1.0067	0.10702	4	1.0620	0.14884
5	1.1250	0.15392	6	1.2779	0.15392	7	1.2870	0.15721	8	1.3230	0.18086
9	1.3590	0.22230	10	1.6858	0.22230	11	1.7280	0.26057	12	1.8000	0.29549
13	1.8720	0.32279	14	2.0685	0.32279	15	2.1420	0.36728	16	2.4155	0.36728
17	2.5020	0.43173	18	2.6460	0.45448	19	2.8170	0.59772	20	2.9970	0.71491
21	3.2218	0.71491	22	3.4650	0.92698	23	3.9240	1.58210	24	4.0000	1.60715
25	4.0860	1.62233	26	4.1490	1.86565	27	4.5000	2.33981	28	5.3396	2.33981
29	5.4630	2.57178	30	5.7240	2.90182	31	5.7510	3.04217	32	5.8320	3.22374
33	11.9970	3.22374	34	12.4470	3.56280	35	15.2130	3.56280	36	15.2570	3.36653
37	17.1600	1.85652	38	17.5120	1.77168	39	20.0310	1.01544	40	22.0000	0.99697
41	22.8690	0.81442	42	29.4140	0.64656	43	36.3000	0.36997	44	39.5000	0.34266

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY ; DAMPING = 0.01  
 FIGURE NO. 1324-B DIRECTION 2 AT ELEVATION 886.50 FEET SET NO. = 9 NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1324 DEGREE OF FREEDOM = 2 NUMBER OF GRIDS = 45 DAMPING VALUE = 0.010

1	0.9000	0.10591	2	0.9450	0.10754	3	1.0066	0.10754	4	1.0620	0.14929
5	1.1250	0.15453	6	1.2782	0.15453	7	1.2870	0.15770	8	1.3230	0.18140
9	1.3590	0.22293	10	1.6868	0.22293	11	1.7280	0.26057	12	1.8000	0.29588
13	1.8720	0.32268	14	2.0682	0.32268	15	2.1420	0.36793	16	2.4168	0.36793
17	2.5020	0.43744	18	2.6460	0.45345	19	2.8170	0.59566	20	2.9970	0.71192
21	3.2228	0.71192	22	3.4650	0.92119	23	3.9010	1.56990	24	3.9550	1.60243
25	4.0860	1.61757	26	4.1490	1.86862	27	4.6920	2.37472	28	5.3321	2.37472
29	5.4630	2.62880	30	5.7240	2.96483	31	5.7510	3.10462	32	5.8320	3.30203
33	11.9970	3.30203	34	12.4470	3.46200	35	15.2130	3.46200	36	15.2570	3.46200
37	16.7420	2.01857	38	18.5460	1.41260	39	20.0310	1.01392	40	22.0000	0.96257
41	22.8690	0.79116	42	27.0930	0.62352	43	29.4140	0.58776	44	36.3000	0.34840
45	39.5000	0.32559									

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY ; DAMPING = 0.01  
 FIGURE NO. 1325-B DIRECTION 2 AT ELEVATION 873.50 FEET SET NO. = 10 NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1325 DEGREE OF FREEDOM = 2 NUMBER OF GRIDS = 44 DAMPING VALUE = 0.010

1	0.9000	0.10648	2	0.9450	0.10817	3	1.0064	0.10817	4	1.0620	0.14990
5	1.1250	0.15535	6	1.2784	0.15535	7	1.2870	0.15845	8	1.3230	0.18219
9	1.3590	0.22378	10	1.6874	0.22378	11	1.7280	0.26136	12	1.8000	0.29690



13	1.8720	0.32351	14	2.0674	0.32351	15	2.1420	0.37007	16	2.4168	0.37007
17	2.5020	0.44077	18	2.6460	0.45579	19	2.8170	0.59915	20	2.9970	0.71631
21	3.2211	0.71631	22	3.4650	0.93499	23	3.9260	1.59608	24	4.0440	1.63314
25	4.0860	1.64716	26	4.1490	1.90579	27	4.6320	2.43642	28	5.3308	2.43642
29	5.4630	2.69993	30	5.7240	3.04111	31	5.7510	3.17981	32	5.8320	3.39215
33	7.1280	3.39215	34	7.7664	3.08432	35	15.2130	3.08432	36	15.2570	3.08432
37	16.7420	1.96494	38	20.0310	1.02158	39	22.0000	0.93829	40	22.8690	0.77510
41	27.0930	0.57763	42	29.4140	0.53156	43	36.3000	0.33144	44	39.5000	0.31890

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY; DAMPING = 0.01  
FIGURE NO. 1326-B DIRECTION 2 AT ELEVATION 852.50 FEET

SET NO. = 11

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1326			DEGREE OF FREEDOM = 2		NUMBER OF GRIDS = 43		DAMPING VALUE = 0.010	
1	0.9000	0.10541	2	0.9450	0.10761	3	1.0073	0.10761
5	1.1250	0.15405	6	1.2783	0.15405	7	1.2870	0.15716
9	1.3590	0.22224	10	1.6873	0.22224	11	1.7280	0.25926
13	1.8720	0.32097	14	2.0680	0.32097	15	2.1420	0.36598
17	2.5020	0.43419	18	2.6460	0.44974	19	2.8170	0.59023
21	3.2239	0.70475	22	3.4650	0.90889	23	4.0150	1.54958
25	4.0860	1.59132	26	4.1490	1.83786	27	4.6500	2.33862
29	5.4630	2.59114	30	5.7240	2.91846	31	5.7510	3.05680
33	7.1280	3.25688	34	7.7855	2.84286	35	15.2130	2.84286
37	16.7420	1.75821	38	20.0310	0.89351	39	22.0000	0.79766
41	27.0930	0.46332	42	36.3000	0.29215	43	39.5000	0.28850

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY; DAMPING = 0.01  
FIGURE NO. 1327-B DIRECTION 2 AT ELEVATION 831.50 FEET

SET NO. = 12

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1327			DEGREE OF FREEDOM = 2		NUMBER OF GRIDS = 45		DAMPING VALUE = 0.010	
1	0.9000	0.10501	2	0.9450	0.10587	3	1.0056	0.10587
5	1.1250	0.15339	6	1.2803	0.15339	7	1.2870	0.15577
9	1.3590	0.22135	10	1.6875	0.22135	11	1.7280	0.25747
13	1.8720	0.31791	14	2.0675	0.31791	15	2.1420	0.36246
17	2.5020	0.42896	18	2.6460	0.44329	19	2.8170	0.58404
21	3.2275	0.69689	22	3.4650	0.89330	23	4.0150	1.52307
25	4.0864	1.54526	26	4.1490	1.77520	27	4.7250	2.23387
29	5.4630	2.45448	30	5.7240	2.76481	31	5.7510	2.89245
33	7.1280	3.08220	34	7.7924	2.42880	35	13.8300	2.42880
37	16.1480	1.76207	38	17.5120	1.26945	39	18.5460	1.06766
41	22.0000	0.60109	42	22.8690	0.49707	43	27.0930	0.32800
45	39.5000	0.27251				44	29.4140	0.29160

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY; DAMPING = 0.01  
FIGURE NO. 1328-B DIRECTION 2 AT ELEVATION 810.50 FEET

SET NO. = 13

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1328			DEGREE OF FREEDOM = 2		NUMBER OF GRIDS = 43		DAMPING VALUE = 0.010	
1	0.9000	0.10315	2	0.9450	0.10458	3	1.0064	0.10458
5	1.1250	0.15132	6	1.2794	0.15132	7	1.2870	0.15396
9	1.3590	0.21863	10	1.6891	0.21863	11	1.7280	0.25314
13	1.8720	0.31297	14	2.0689	0.31297	15	2.1420	0.35467
17	2.5020	0.41556	18	2.6460	0.42820	19	2.8170	0.56416
21	3.2366	0.67298	22	3.4650	0.83952	23	3.9000	1.43264
25	4.0893	1.45042	26	4.1490	1.65339	27	4.5000	2.07797
29	5.4630	2.27306	30	5.7240	2.31081	31	7.1280	2.31081
33	15.2130	1.80658	34	15.2570	1.80658	35	16.1480	1.27941
						36	17.5120	0.92006



37	18.5460	0.79163	38	20.0310	0.47842	39	22.0000	0.37598	40	22.8690	0.31715
41	25.6383	0.28011	42	29.4140	0.28011	43	39.5000	0.24927			

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY; DAMPING = 0.01  
 FIGURE NO. 1329-B DIRECTION 2 AT ELEVATION 790.50 FEET

SET NO. = 14

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1329				DEGREE OF FREEDOM = 2		NUMBER OF GRIDS = 50		DAMPING VALUE = 0.010			
1	0.9006	0.10205	2	0.9450	0.10434	3	1.0070	0.10434	4	1.0620	0.14570
5	1.1250	0.15031	6	1.2805	0.15031	7	1.2870	0.15252	8	1.3230	0.17485
9	1.3590	0.21722	10	1.6904	0.21722	11	1.7280	0.24994	12	1.8000	0.28582
13	1.8720	0.30994	14	2.0689	0.30994	15	2.1420	0.35200	16	2.4286	0.35200
17	2.5020	0.40776	18	2.6460	0.41651	19	2.8170	0.55254	20	2.9970	0.65876
21	3.2419	0.65876	22	3.4650	0.81106	23	3.9000	1.38821	24	4.0150	1.40262
25	4.0970	1.40262	26	4.1490	1.57090	27	4.5000	1.98764	28	5.3344	1.98764
29	5.4630	2.19470	30	5.7510	2.29988	31	7.1280	2.29988	32	7.7099	1.84429
33	9.2730	1.84429	34	10.1875	1.33514	35	12.4122	1.33514	36	12.4470	1.21367
	2130	1.21367	38	15.2570	1.21367	39	16.1480	1.21367	40	16.7420	0.83260
	20	0.72836	42	18.5460	0.67616	43	20.0310	0.38733	44	22.0000	0.32944
45	22.8690	0.29343	46	22.9640	0.29343	47	24.0660	0.31325	48	29.4140	0.31325
49	36.3000	0.24846	50	39.5000	0.24762						

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ; DAMPING = 0.01  
 FIGURE NO. 1323-B DIRECTION 3 AT ELEVATION 899.50 FEET

SET NO. = 15

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1323				DEGREE OF FREEDOM = 3		NUMBER OF GRIDS = 40		DAMPING VALUE = 0.010			
1	0.9000	0.14119	2	0.9450	0.14601	3	1.0083	0.14601	4	1.0620	0.20121
5	1.1250	0.23717	6	1.3049	0.23717	7	1.3590	0.31878	8	1.6546	0.31878
9	1.6650	0.32283	10	1.7280	0.44073	11	1.8014	0.44073	12	1.8720	0.51070
13	1.9530	0.53129	14	2.0891	0.53129	15	2.1420	0.58663	16	2.4458	0.58663
17	2.5020	0.65808	18	2.6608	0.65808	19	3.1000	0.99749	20	3.2770	0.99749
21	3.4650	1.23584	22	4.1000	1.97552	23	5.0584	1.97552	24	5.4630	3.39765
25	5.7510	4.19367	26	5.8320	4.22306	27	7.1280	4.22306	28	7.8210	3.90767
29	7.8540	3.48653	30	9.1630	1.90461	31	9.2730	1.73324	32	10.4940	1.42677
33	11.0000	1.02405	34	12.1859	0.87795	35	15.9200	0.87795	36	18.4015	0.57817
37	22.8690	0.57817	38	26.2308	0.37440	39	29.4140	0.37440	40	39.5000	0.32267

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ; DAMPING = 0.01  
 FIGURE NO. 1324-B DIRECTION 3 AT ELEVATION 886.50 FEET

SET NO. = 16

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1324				DEGREE OF FREEDOM = 3		NUMBER OF GRIDS = 42		DAMPING VALUE = 0.010			
1	0.9000	0.14020	2	0.9450	0.14559	3	1.0088	0.14559	4	1.0620	0.20033
5	1.1250	0.23362	6	1.3049	0.23362	7	1.3590	0.31577	8	1.6602	0.31577
9	1.6650	0.31760	10	1.7280	0.43134	11	1.8000	0.43316	12	1.8720	0.50156
13	1.9530	0.52049	14	2.0905	0.52049	15	2.1420	0.57221	16	2.4524	0.57221
17	2.5020	0.63092	18	2.6551	0.63092	19	2.9970	0.95661	20	3.2928	0.95661
21	3.4650	1.14636	22	4.0300	1.82359	23	5.0471	1.82359	24	5.4630	3.14247
25	5.6250	3.56644	26	5.7510	3.86784	27	5.8320	3.89525	28	7.1280	3.89525
29	7.8210	3.60159	30	7.8540	3.22108	31	9.1630	1.73472	32	9.2730	1.58196
33	10.4940	1.34486	34	11.0000	0.94182	35	12.3200	0.78902	36	15.9200	0.78902
37	18.5183	0.48351	38	22.8690	0.48351	39	26.3435	0.23072	40	29.4140	0.33072
41	35.0862	0.29774	42	39.5000	0.29774						

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ; DAMPING = 0.01

SET NO. = 17

40

FIGURE NO. 1325-B

DIRECTION 3

AT ELEVATION 873.50 FEET

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1325

DEGREE OF FREEDOM = 3

NUMBER OF GRIDS = 45

DAMPING VALUE = 0.010

1	0.9000	0.13911	2	0.9450	0.14516	3	1.0093	0.14516	4	1.0620	0.19946
5	1.1250	0.22998	6	1.3049	0.22998	7	1.3590	0.31266	8	1.4040	0.31290
9	1.6654	0.31290	10	1.7280	0.42195	11	1.8000	0.42687	12	1.8720	0.49242
13	1.9530	0.50959	14	2.0920	0.50959	15	2.1420	0.55778	16	2.4601	0.55778
17	2.5020	0.60368	18	2.6486	0.60368	19	2.9970	0.91563	20	3.3143	0.91563
21	3.4650	1.05668	22	4.1700	1.67146	23	5.0361	1.67146	24	5.4630	2.88630
25	5.6250	3.28300	26	5.7240	3.32570	27	5.7510	3.54067	28	5.8320	3.56620
29	7.1280	3.56620	30	7.8210	3.29372	31	7.8540	2.95395	32	9.1630	1.56233
33	9.2730	1.42800	34	10.4940	1.25704	35	11.0000	0.85647	36	12.2914	0.68672
37	15.9200	0.68672	38	18.5460	0.41071	39	19.0446	0.39045	40	22.0000	0.39045
41	22.8690	0.38257	42	26.7012	0.28129	43	35.0913	0.28129	44	35.4330	0.28275
45	39.5000	0.28275									

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ; DAMPING = 0.01

FIGURE NO. 1326-B

DIRECTION 3

AT ELEVATION 852.50 FEET

SET NO. = 18

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1326

DEGREE OF FREEDOM = 3

NUMBER OF GRIDS = 47

DAMPING VALUE = 0.010

1	0.9000	0.13779	2	0.9450	0.14354	3	1.0101	0.14354	4	1.0620	0.19715
5	1.1250	0.22431	6	1.3054	0.22431	7	1.3590	0.30805	8	1.4040	0.30808
9	1.6681	0.30898	10	1.7280	0.40599	11	1.8000	0.41636	12	1.8720	0.47631
13	1.9530	0.49100	14	2.0943	0.49100	15	2.1420	0.53330	16	2.4743	0.53330
17	2.5020	0.55959	18	2.6460	0.56658	19	2.9970	0.84569	20	3.3657	0.84569
21	3.4650	0.91250	22	4.1700	1.42407	23	5.0135	1.42407	24	5.4630	2.48467
25	5.6250	2.82728	26	5.7259	2.82728	27	5.7510	2.94180	28	7.1280	2.94180
29	7.8210	2.80664	30	7.8540	2.52409	31	9.1630	1.28467	32	9.2730	1.26581
33	10.4940	0.98160	34	11.0000	0.66667	35	11.3979	0.59058	36	13.9370	0.59058
37	14.2120	0.58008	38	14.9313	0.45297	39	17.5120	0.45297	40	18.5460	0.34647
41	20.0310	0.33274	42	22.8690	0.27098	43	25.3941	0.25563	44	29.4140	0.25563
45	36.3000	0.24909	46	36.9931	0.24608	47	39.5000	0.24608			

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ; DAMPING = 0.01

FIGURE NO. 1327-B

DIRECTION 3

AT ELEVATION 831.50 FEET

SET NO. = 19

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1327

DEGREE OF FREEDOM = 3

NUMBER OF GRIDS = 50

DAMPING VALUE = 0.010

1	0.9000	0.13630	2	0.9450	0.14220	3	1.0109	0.14220	4	1.0620	0.19508
5	1.1250	0.21809	6	1.3057	0.21809	7	1.3590	0.30270	8	1.4040	0.30484
9	1.6724	0.30484	10	1.7280	0.38834	11	1.8000	0.40344	12	1.8720	0.45833
13	1.9530	0.46963	14	2.0979	0.46963	15	2.1420	0.50504	16	2.4891	0.50504
17	2.5020	0.51586	18	2.6460	0.52551	19	2.9970	0.76473	20	3.4724	0.76473
21	4.1700	1.14535	22	5.0099	1.14535	23	5.4630	1.95629	24	5.6250	2.23131
25	5.7314	2.23131	26	5.7510	2.32240	27	7.1280	2.32240	28	7.8210	2.16848
29	7.8540	1.94085	30	8.7706	1.28283	31	9.1630	1.28283	32	9.2730	1.26941
33	10.4940	0.85281	34	11.0000	0.59374	35	11.3727	0.59374	36	11.4030	0.61654
37	13.9370	0.61654	38	14.2120	0.59725	39	14.6379	0.46291	40	16.7420	0.46291
41	17.0757	0.39763	42	17.5120	0.39763	43	18.5460	0.30497	44	19.2383	0.29006
45	22.0000	0.29006	46	22.8690	0.27849	47	26.8440	0.22030	48	29.4140	0.22030
49	33.0997	0.21303	50	39.5000	0.21303						

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ; DAMPING = 0.01

FIGURE NO. 1328-B

DIRECTION 3

AT ELEVATION 810.50 FEET

SET NO. = 20

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1328

DEGREE OF FREEDOM = 3

NUMBER OF GRIDS = 44

DAMPING VALUE = 0.010

1	0.9000	0.13424	2	0.9450	0.14024	3	1.0109	0.14024	4	1.0620	0.19226
5	1.1250	0.21013	6	1.3108	0.21013	7	1.3230	0.22614	8	1.3590	0.29454
9	1.4040	0.29810	10	1.6783	0.29810	11	1.7280	0.36389	12	1.8720	0.43239
13	1.9530	0.44045	14	2.0978	0.44045	15	2.1420	0.47499	16	2.6180	0.47499
17	2.6237	0.46995	18	2.6460	0.46995	19	2.9970	0.65522	20	3.5593	0.65522
21	3.7530	0.81263	22	5.0575	0.81263	23	5.4630	1.21385	24	5.6250	1.34465
25	5.7510	1.35220	26	7.0290	1.35220	27	7.1280	1.33995	28	7.8210	1.18071
29	7.8407	1.09291	30	9.1630	1.09291	31	9.2730	1.06054	32	10.4940	0.60065
33	11.0000	0.46255	34	11.4030	0.46255	35	13.9370	0.46255	36	14.2120	0.40892
37	14.5326	0.35826	38	22.0000	0.35826	39	22.8690	0.28903	40	26.4561	0.17344
41	29.4140	0.17344	42	36.3000	0.15554	43	36.4408	0.15495	44	39.5000	0.15495

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ ; DAMPING = 0.01

FIGURE NO. 1329-B

DIRECTION 3

AT ELEVATION

790.50 FEET

SET NO. = 21

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1329

DEGREE OF FREEDOM =

3

NUMBER OF GRIDS = 38

DAMPING VALUE = 0.010

1	0.9000	0.13221	2	0.9450	0.13831	3	1.0102	0.13831	4	1.0620	0.18947
5	1.1250	0.20298	6	1.3114	0.20298	7	1.3230	0.21773	8	1.3590	0.28724
9	1.4040	0.29208	10	1.6862	0.29208	11	1.7280	0.34108	12	1.8720	0.41004
13	1.9539	0.41316	14	2.0982	0.41316	15	2.1420	0.44625	16	2.7000	0.44625
17	2.8170	0.46900	18	2.9970	0.55294	19	3.6630	0.55294	20	3.6692	0.54971
21	4.5870	0.54971	22	5.2331	0.54971	23	5.4630	0.60395	24	5.8320	0.61350
25	6.3990	0.72259	26	6.5889	0.72259	27	7.2720	0.95788	28	7.4970	0.95921
29	9.1630	0.95921	30	10.4940	0.42071	31	17.5120	0.42071	32	18.0720	0.34211
33	22.0000	0.34211	34	22.8690	0.25388	35	26.1709	0.15658	36	29.4140	0.15658
37	36.3000	0.11683	38	39.5000	0.11579						

## TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX ; DAMPING = 0.02

FIGURE NO. 1330-B

DIRECTION 1

AT ELEVATION 899.50 FEET

SET NO. = 1

NO. OF SPECTRA = 1

## BROADENED SPECTRUM FOR NODE=1330

DEGREE OF FREEDOM =

NUMBER OF GRIDS = 46

DAMPING VALUE = 0.020

1	0.9000	0.13586	2	0.9450	0.13939	3	1.0107	0.13939	4	1.0620	0.17440
5	1.1250	0.18632	6	1.2924	0.18632	7	1.3230	0.21538	8	1.3590	0.24680
9	1.5030	0.24700	10	1.5665	0.24700	11	1.6110	0.26444	12	1.6650	0.28470
13	1.7280	0.35509	14	1.8079	0.35509	15	1.8720	0.41475	16	2.0375	0.41475
17	2.1420	0.44744	18	2.4079	0.44744	19	2.5020	0.50009	20	2.8170	0.58661
21	2.9970	0.68732	22	3.2642	0.68732	23	3.4650	0.83337	24	4.4000	1.90437
25	5.0095	1.90437	26	5.4630	3.49123	27	5.6250	3.77888	28	5.7240	3.78420
29	6.9960	3.78420	30	7.0290	3.71278	31	7.1280	3.32541	32	7.8210	2.12944
33	7.8540	1.98573	34	8.8880	1.45636	35	9.1630	1.29563	36	10.4940	1.20259
37	14.2120	1.20259	38	14.3497	1.15069	39	15.2130	1.15069	40	16.1480	1.14940
41	16.7420	1.10129	42	20.0310	0.69630	43	22.0000	0.62135	44	22.8690	0.52653
45	27.0930	0.43377	46	39.5000	0.41125						

## TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX ; DAMPING = 0.02

FIGURE NO. 1331-B

DIRECTION 1

AT ELEVATION 886.50 FEET

SET NO. = 2

NO. OF SPECTRA = 1

## BROADENED SPECTRUM FOR NODE=1331

DEGREE OF FREEDOM =

NUMBER OF GRIDS = 45

DAMPING VALUE = 0.020

1	0.9000	0.13424	2	0.9450	0.13808	3	1.0104	0.13808	4	1.0620	0.17290
5	1.1250	0.18344	6	1.2926	0.18344	7	1.3230	0.21145	8	1.3590	0.24317
9	1.5685	0.24317	10	1.6650	0.27882	11	1.7280	0.34549	12	1.8054	0.34549
13	1.8720	0.40355	14	2.0427	0.40355	15	2.1420	0.43208	16	2.4177	0.43208
17	2.5020	0.47252	18	2.8170	0.55362	19	2.9970	0.64723	20	3.2749	0.64723
21	3.4650	0.76174	22	4.3000	1.66126	23	5.0040	1.67262	24	5.4630	3.01918
25	5.6250	3.27297	26	6.8750	1.27297	27	6.9960	3.27140	28	7.0290	3.22291
29	7.1280	2.88909	30	7.8210	1.78588	31	7.8540	1.66936	32	8.8880	1.19928
33	9.2730	1.01288	34	10.4940	0.92713	35	11.0000	0.80063	36	13.9370	0.80063
37	14.2120	0.79907	38	14.4297	0.75580	39	16.1480	0.75580	40	16.7420	0.73414
41	20.0310	0.49506	42	22.0000	0.45444	43	22.8690	0.40430	44	35.0534	0.34172
45	39.5000	0.34172									

## TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX ; DAMPING = 0.02

FIGURE NO. 1332-B

DIRECTION 1

AT ELEVATION 873.50 FEET

SET NO. = 3

NO. OF SPECTRA = 1

## BROADENED SPECTRUM FOR NODE=1332

DEGREE OF FREEDOM =

NUMBER OF GRIDS = 44

DAMPING VALUE = 0.020

1	0.9000	0.13266	2	0.9450	0.13681	3	1.0099	0.13681	4	1.0620	0.17197
5	1.1250	0.18060	6	1.2927	0.18060	7	1.3590	0.23987	8	1.5716	0.23987
9	1.6650	0.27307	10	1.7280	0.33605	11	1.8025	0.33605	12	1.8720	0.39255
13	2.0490	0.39255	14	2.1420	0.41693	15	2.4311	0.41693	16	2.5020	0.44532
17	2.8170	0.52111	18	2.9970	0.60772	19	3.2889	0.60772	20	3.4650	0.70299
21	4.3000	1.44824	22	5.0040	1.46454	23	5.4630	2.77400	24	7.0290	2.77400
25	7.1280	2.45955	26	7.8210	1.44915	27	7.8540	1.35951	28	8.8880	0.95044
29	9.2730	0.80729	30	10.4940	0.75606	31	11.0000	0.61151	32	12.3200	0.47021
33	12.8546	0.44334	34	14.2120	0.44334	35	14.7925	0.41303	36	16.1480	0.41303
37	16.7420	0.41118	38	18.5460	0.36706	39	21.9851	0.31403	40	22.8690	0.31403
41	27.0930	0.30479	42	29.4140	0.29788	43	33.5958	0.28215	44	39.5000	0.28215



TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX; DAMPING = 0.02  
FIGURE NO. 1333-B DIRECTION 1 AT ELEVATION 852.50 FEET

SET NO. = 4

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1333				DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 41		DAMPING VALUE = 0.020			
1	0.9000	0.13086	2	0.9450	0.13528	3	1.0093	0.13528	4	1.0620	0.17030
5	1.1250	0.17748	6	1.2919	0.17748	7	1.3590	0.23581	8	1.5748	0.23581
9	1.6650	0.26716	10	1.7280	0.32439	11	1.8000	0.32675	12	1.8720	0.38094
13	2.0588	0.38094	14	2.1420	0.40038	15	2.4160	0.40038	16	2.6460	0.44899
17	2.8170	0.48581	18	2.9970	0.56932	19	3.3163	0.56932	20	3.4650	0.63156
21	4.3000	1.22095	22	5.0040	1.27534	23	5.4630	2.25061	24	7.0290	2.25061
25	7.8210	1.16804	26	7.8540	1.10502	27	8.8880	0.77775	28	9.2730	0.76810
29	10.4940	0.59868	30	11.0000	0.48024	31	12.0526	0.39433	32	14.2120	0.39433
33	14.3194	0.38820	34	16.1480	0.38820	35	16.7420	0.37271	36	17.0840	0.34889
37	17.5120	0.34889	38	20.0310	0.28243	39	22.8690	0.27301	40	35.1865	0.23221
41	39.5000	0.23221									

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX; DAMPING = 0.02  
FIGURE NO. 1334-B DIRECTION 1 AT ELEVATION 831.50 FEET

SET NO. = 5

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1334				DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 48		DAMPING VALUE = 0.020			
1	0.9000	0.12848	2	0.9450	0.13311	3	1.0088	0.13311	4	1.0620	0.16655
5	1.1250	0.17132	6	1.2904	0.17132	7	1.3590	0.23045	8	1.5822	0.23045
9	1.6650	0.25683	10	1.7280	0.30744	11	1.8000	0.31389	12	1.8720	0.36189
13	2.0711	0.36189	14	2.1420	0.37581	15	2.4717	0.37581	16	2.6460	0.40271
17	2.9970	0.50994	18	3.3909	0.50994	19	3.4650	0.52945	20	4.3000	0.92418
21	4.8999	0.92418	22	5.0040	0.94966	23	5.4630	1.48733	24	5.6250	1.60812
25	6.8750	1.60812	26	6.9960	1.58515	27	7.0290	1.56264	28	7.8210	0.73086
29	7.8438	0.70527	30	8.8880	0.70527	31	9.2730	0.65971	32	10.4940	0.38393
33	10.8790	0.33100	34	11.3453	0.33100	35	11.6280	0.36009	36	14.2120	0.36009
37	14.6630	0.35480	38	14.9214	0.34546	39	16.1480	0.34546	40	16.7420	0.33277
41	17.5120	0.32622	42	18.5460	0.24520	43	22.5241	0.20158	44	27.0930	0.20158
45	28.7538	0.19083	46	36.3000	0.19083	47	39.4412	0.16795	48	39.5000	0.16795

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX; DAMPING = 0.02  
FIGURE NO. 1335-B DIRECTION 1 AT ELEVATION 810.50 FEET

SET NO. = 6

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1335				DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 45		DAMPING VALUE = 0.020			
1	0.9000	0.12602	2	0.9450	0.13090	3	1.0076	0.13090	4	1.0620	0.16419
5	1.1250	0.16551	6	1.2884	0.16551	7	1.3590	0.22424	8	1.5874	0.22424
9	1.6110	0.22709	10	1.7280	0.28920	11	1.8000	0.29946	12	1.8720	0.34239
13	2.1127	0.34239	14	2.1420	0.34986	15	2.5676	0.34986	16	2.6460	0.35805
17	2.9970	0.44725	18	3.5072	0.44725	19	3.7530	0.58082	20	3.9556	0.58082
21	4.0860	0.61847	22	4.1490	0.63194	23	5.0446	0.63194	24	5.4630	0.80841
25	5.6750	0.84451	26	6.8750	0.84451	27	6.9960	0.81853	28	7.0290	0.79509
29	7.1280	0.71314	30	7.5640	0.60719	31	8.8880	0.60719	32	9.1630	0.56560
33	10.0659	0.42629	34	13.9370	0.42629	35	14.2120	0.41644	36	15.1979	0.28449
37	16.1480	0.28449	38	16.7420	0.26802	39	17.1076	0.24779	40	17.5120	0.24779
41	17.9911	0.21857	42	22.8690	0.21857	43	29.4140	0.15172	44	35.4604	0.12599
45	39.5000	0.12599									

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX; DAMPING = 0.02  
FIGURE NO. 1336-B DIRECTION 1 AT ELEVATION 790.50 FEET

SET NO. = 7

NO. OF SPECTRA = 1



BROADENED SPECTRUM FOR NODE=1336				DEGREE OF FREEDOM =		NUMBER OF GRIDS = 42		DAMPING VALUE =		0.020	
1	0.9000	0.12394	2	0.9450	0.12909	3	1.0054	0.12909	4	1.0620	0.16359
5	1.2918	0.16359	6	1.3230	0.18148	7	1.3590	0.21962	8	1.6128	0.21962
9	1.7280	0.27408	10	1.8000	0.28777	11	1.8720	0.32635	12	2.1323	0.32635
13	2.1420	0.32853	14	2.6180	0.32853	15	2.6356	0.32437	16	2.6460	0.32437
17	2.8170	0.36044	18	2.9970	0.39511	19	3.6348	0.39511	20	3.7530	0.43296
21	4.5870	0.43296	22	4.6084	0.42580	23	5.0710	0.42580	24	5.1968	0.40450
25	5.4630	0.40450	26	5.6250	0.45375	27	5.7240	0.47769	28	6.1165	0.47769
29	6.3990	0.50806	30	7.2720	0.57679	31	8.8880	0.57679	32	10.0116	0.39571
33	13.9370	0.39571	34	14.2120	0.37338	35	14.6630	0.31960	36	15.2570	0.25091
37	15.5561	0.23076	38	20.0310	0.23076	39	22.0000	0.18821	40	22.8690	0.18298
41	27.0930	0.11880	42	39.5000	0.10093						

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.; SET NO. = 8  
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY; DAMPING = 0.02  
FIGURE NO. 1330-B DIRECTION 2 AT ELEVATION 899.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1330				DEGREE OF FREEDOM =		NUMBER OF GRIDS = 38		DAMPING VALUE =		0.020	
1	0.9000	0.09880	2	0.9450	0.10065	3	1.0033	0.10065	4	1.0620	0.12920
5	1.1250	0.13432	6	1.2747	0.13432	7	1.2870	0.13644	8	1.3230	0.16340
9	1.3590	0.17985	10	1.5914	0.17985	11	1.6650	0.18659	12	1.7280	0.22213
13	1.8000	0.24784	14	1.8720	0.26242	15	2.1420	0.28441	16	2.2975	0.28441
17	2.3670	0.29865	18	2.5020	0.36315	19	2.8170	0.47632	20	2.9970	0.58710
21	3.2130	0.62342	22	3.4650	0.82534	23	4.1700	1.39161	24	4.6500	1.89135
25	5.3007	1.89135	26	5.7240	2.34508	27	11.9970	2.34508	28	12.4470	2.72100
29	15.2130	2.72100	30	16.1480	2.07110	31	16.7420	1.96941	32	18.5460	1.35207
33	20.0310	0.98640	34	22.0000	0.90005	35	22.8690	0.76575	36	29.4140	0.61101
37	36.3000	0.39982	38	39.5000	0.37040						

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.; SET NO. = 9  
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY; DAMPING = 0.02  
FIGURE NO. 1331-B DIRECTION 2 AT ELEVATION 886.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1331				DEGREE OF FREEDOM =		NUMBER OF GRIDS = 38		DAMPING VALUE =		0.020	
1	0.9000	0.09862	2	0.9450	0.10062	3	1.0033	0.10062	4	1.0620	0.12897
5	1.1250	0.13361	6	1.2749	0.13361	7	1.2870	0.13563	8	1.3230	0.16282
9	1.3590	0.17942	10	1.5953	0.17942	11	1.6650	0.18553	12	1.7280	0.22061
13	1.8000	0.24679	14	1.8720	0.26021	15	2.1420	0.28143	16	2.3022	0.28143
17	2.3670	0.29352	18	2.5020	0.35608	19	2.8170	0.46729	20	2.9970	0.57424
21	3.2130	0.60769	22	3.4650	0.80013	23	4.1700	1.34476	24	4.7000	1.84053
25	5.2713	1.84053	26	5.7240	2.34284	27	11.9970	2.34284	28	12.4470	2.56800
29	15.2130	2.56800	30	16.1480	1.94125	31	16.7420	1.85460	32	18.5460	1.28126
33	20.0310	0.94499	34	22.0000	0.83681	35	22.8690	0.71405	36	29.4140	0.54069
37	36.3000	0.36628	38	39.5000	0.34272						

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.; SET NO. = 10  
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY; DAMPING = 0.02  
FIGURE NO. 1332-B DIRECTION 2 AT ELEVATION 873.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1332				DEGREE OF FREEDOM =		NUMBER OF GRIDS = 37		DAMPING VALUE =		0.020	
1	0.9000	0.09896	2	0.9450	0.10111	3	1.0032	0.10111	4	1.0620	0.12947
5	1.1250	0.13372	6	1.2738	0.13372	7	1.2870	0.13588	8	1.3230	0.16325
9	1.3590	0.17999	10	1.5959	0.17999	11	1.6650	0.18602	12	1.7280	0.22118
13	1.8000	0.24772	14	1.8720	0.26039	15	2.1420	0.28215	16	2.3034	0.28215
17	2.3670	0.29375	18	2.5020	0.35697	19	2.8170	0.46879	20	2.9970	0.57622
21	3.2130	0.61052	22	3.4650	0.80441	23	4.1700	1.35730	24	4.6500	1.86753
25	5.2656	1.86753	26	5.7240	2.38918	27	6.9960	2.38918	28	7.0290	2.36178
29	7.7196	2.19862	30	16.1480	2.19862	31	16.7420	1.79477	32	18.5460	1.25150

33	20.0310	0.93741	34	22.0000	0.80277	35	22.8690	0.68820	36	36.3000	0.34549
37	39.5000	0.33253									

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.; SET NO. = 11  
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY; DAMPING = 0.02  
 FIGURE NO. 1333-B DIRECTION 2 AT ELEVATION 852.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1333				DEGREE OF FREEDOM = 2		NUMBER OF GRIDS = 38		DAMPING VALUE = 0.020			
1	0.9000	0.09863	2	0.9450	0.10125	3	1.0043	0.10125	4	1.0620	0.12927
5	1.1250	0.13414	6	1.2728	0.13414	7	1.2870	0.13660	8	1.3230	0.16384
9	1.3590	0.17983	10	1.5836	0.17983	11	1.6650	0.18665	12	1.7280	0.22104
13	1.8000	0.24775	14	1.8720	0.26094	15	2.1420	0.28332	16	2.3052	0.28332
17	2.3670	0.29548	18	2.5020	0.35850	19	2.8170	0.47055	20	2.9970	0.57891
21	3.2130	0.61384	22	3.4650	0.80897	23	4.1700	1.36082	24	4.7000	1.89254
25	5.2945	1.89254	26	5.7240	2.35778	27	6.9960	2.35778	28	7.0290	2.33548
29	7.7164	2.02644	30	15.0000	2.02644	31	17.1600	1.51810	32	18.5460	1.16245
33	20.0310	0.86220	34	22.0000	0.72295	35	22.8690	0.62444	36	27.0930	0.45881
37	36.3000	0.31994	38	39.5000	0.31620						

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.; SET NO. = 12  
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY; DAMPING = 0.02  
 FIGURE NO. 1334-B DIRECTION 2 AT ELEVATION 831.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1334				DEGREE OF FREEDOM = 2		NUMBER OF GRIDS = 42		DAMPING VALUE = 0.020			
1	0.9000	0.09865	2	0.9450	0.09959	3	1.0027	0.09959	4	1.0620	0.12919
5	1.1250	0.13336	6	1.2714	0.13336	7	1.2870	0.13604	8	1.3230	0.16315
9	1.3590	0.17893	10	1.5875	0.17893	11	1.6650	0.18598	12	1.7280	0.21984
13	1.8000	0.24634	14	1.8720	0.25998	15	2.1420	0.28177	16	2.3039	0.28177
17	2.3670	0.29456	18	2.5020	0.35739	19	2.8170	0.46763	20	2.9970	0.57688
21	3.2130	0.61156	22	3.4650	0.80602	23	4.1700	1.35877	24	5.0000	1.85788
25	5.3230	1.85788	26	5.7240	2.26059	27	6.9960	2.26059	28	7.0290	2.24134
29	7.1280	2.15475	30	7.6964	1.73340	31	15.2130	1.73340	32	16.1480	1.47704
33	16.7420	1.42369	34	17.1600	1.30824	35	17.5120	1.17564	36	18.5460	1.01245
37	20.0310	0.71916	38	22.0000	0.57371	39	22.8690	0.50021	40	27.0930	0.34939
41	29.4140	0.31735	42	39.5000	0.30398						

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.; SET NO. = 13  
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY; DAMPING = 0.02  
 FIGURE NO. 1335-B DIRECTION 2 AT ELEVATION 810.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1335				DEGREE OF FREEDOM = 2		NUMBER OF GRIDS = 44		DAMPING VALUE = 0.020			
1	0.9000	0.09679	2	0.9450	0.09844	3	1.0028	0.09844	4	1.0620	0.12634
5	1.1250	0.13211	6	1.2777	0.13211	7	1.2870	0.13357	8	1.3230	0.16055
9	1.3590	0.17728	10	1.6006	0.17728	11	1.6650	0.18313	12	1.7280	0.21599
13	1.8000	0.24155	14	1.8720	0.25669	15	2.1420	0.27564	16	2.3050	0.27564
17	2.3670	0.28810	18	2.5020	0.34550	19	2.8170	0.45318	20	2.9970	0.55663
21	3.2130	0.58619	22	3.4650	0.77015	23	4.1700	1.28991	24	5.0000	1.75349
25	5.3402	1.76349	26	5.7240	2.11720	27	6.9960	2.11720	28	7.0290	2.09472
29	7.6141	1.65976	30	8.8880	1.65976	31	9.2730	1.64502	32	9.9499	1.27339
33	12.1842	1.27339	34	12.4470	1.29394	35	15.2130	1.29394	36	16.1480	1.30060
37	16.7420	1.06447	38	17.1600	0.98353	39	17.5120	0.88363	40	18.5460	0.77503
41	20.0310	0.51181	42	22.8690	0.34206	43	29.4140	0.29621	44	39.5000	0.28662

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.; SET NO. = 14  
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY; DAMPING = 0.02  
 FIGURE NO. 1336-B DIRECTION 2 AT ELEVATION 790.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1336				DEGREE OF FREEDOM =		NUMBER OF GRIDS = 44		DAMPING VALUE =		0.020	
1	0.9000	0.09411	2	0.9450	0.09653	3	1.0041	0.09653	4	1.0620	0.12470
5	1.1250	0.12866	6	1.2841	0.12866	7	1.2870	0.12907	8	1.3230	0.15617
9	1.3590	0.17341	10	1.6462	0.17341	11	1.6650	0.17745	12	1.7280	0.20828
13	1.8000	0.23440	14	1.8720	0.24756	15	2.1420	0.26340	16	2.3191	0.26340
17	2.3670	0.26979	18	2.5020	0.32385	19	2.8170	0.42263	20	2.9970	0.51331
21	3.2130	0.53491	22	3.4650	0.68699	23	4.1700	1.15177	24	4.5500	1.47057
25	5.2683	1.47057	26	5.6250	1.78374	27	5.7240	1.91190	28	6.9960	1.91190
29	7.0290	1.89307	30	7.6777	1.45704	31	9.2730	1.45704	32	10.1982	1.02302
33	12.3200	1.02302	34	12.8264	0.94067	35	15.2130	0.94067	36	16.1480	0.72265
37	16.7420	0.70647	38	17.1600	0.67628	39	18.5460	0.52846	40	20.0310	0.35143
41	22.0000	0.30345	42	26.5886	0.26352	43	29.4140	0.26352	44	39.5000	0.24832

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ ; DAMPING = 0.02  
FIGURE NO. 1330-B DIRECTION 3 AT ELEVATION 899.50 FEET

SET NO. = 15

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1330				DEGREE OF FREEDOM =		3		NUMBER OF GRIDS =		40		DAMPING VALUE =		0.020	
1	0.9000	0.13304	2	0.9450	0.13670	3	1.0074	0.13670	4	1.0620	0.17471				
5	1.1250	0.19234	6	1.2998	0.19234	7	1.3230	0.21817	8	1.3590	0.24836				
9	1.5219	0.24836	10	1.6110	0.26503	11	1.6650	0.28411	12	1.7280	0.36617				
13	1.8080	0.36617	14	1.8720	0.41527	15	2.0695	0.41527	16	2.1420	0.44041				
17	2.3879	0.44041	18	2.5020	0.53070	19	2.8170	0.59965	20	2.9970	0.75102				
21	3.4650	0.95186	22	4.0700	1.57498	23	5.0609	1.57498	24	5.4630	2.38964				
25	5.6250	2.94757	26	6.2774	2.94757	27	6.3990	3.01805	28	7.8210	3.01805				
29	7.8540	2.84088	30	9.1630	1.54680	31	9.2730	1.40333	32	10.4940	1.14155				
33	11.0000	0.92097	34	12.2967	0.66320	35	17.5120	0.66320	36	18.2589	0.51222				
37	22.8690	0.51222	38	26.5402	0.35056	39	29.4140	0.35056	40	39.5000	0.31992				

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ ; DAMPING = 0.02  
FIGURE NO. 1331-B DIRECTION 3 AT ELEVATION 886.50 FEET

SET NO. = 16

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1331				DEGREE OF FREEDOM =		NUMBER OF GRIDS = 41		DAMPING VALUE =		0.020	
1	0.9000	0.13182	2	0.9450	0.13612	3	1.0073	0.13612	4	1.0620	0.17378
5	1.1250	0.18912	6	1.2991	0.18912	7	1.3230	0.21453	8	1.3590	0.24538
9	1.5675	0.24538	10	1.6110	0.26102	11	1.6650	0.27978	12	1.7280	0.35693
13	1.8043	0.35693	14	1.8720	0.40658	15	2.0746	0.40658	16	2.1420	0.42799
17	2.3914	0.42799	18	2.5020	0.50548	19	2.8170	0.57357	20	2.9970	0.71236
21	3.4650	0.88776	22	3.9000	1.43923	23	5.0472	1.43923	24	5.4630	2.19329
25	5.6250	2.70656	26	6.2999	2.70656	27	6.3990	2.75847	28	7.8210	2.75847
29	7.8540	2.59302	30	9.1630	1.39055	31	9.2730	1.27138	32	10.4940	1.03539
33	11.0000	0.82558	34	12.3200	0.56667	35	17.5120	0.56667	36	18.4104	0.42464
37	22.8690	0.42464	38	26.7096	0.30695	39	29.4140	0.30695	40	37.0016	0.29014
41	39.5000	0.29014									

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ ; DAMPING = 0.02  
FIGURE NO. 1332-B DIRECTION 3 AT ELEVATION 873.50 FEET

SET NO. = 17

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1332				DEGREE OF FREEDOM =		3		NUMBER OF GRIDS =		40		DAMPING VALUE =		0.020	
1	0.9000	0.13064	2	0.9450	0.13563	3	1.0071	0.13563	4	1.0620	0.17296				
5	1.1250	0.18601	6	1.2983	0.18601	7	1.3230	0.21100	8	1.3590	0.24250				
9	1.5705	0.24250	10	1.6110	0.25716	11	1.6650	0.27561	12	1.7280	0.34784				
13	1.8002	0.34784	14	1.8720	0.39810	15	2.0805	0.39810	16	2.1420	0.41587				
17	2.3959	0.41587	18	2.5020	0.48066	19	2.8170	0.54816	20	2.9970	0.67452				
21	3.4650	0.82490	22	3.9000	1.30555	23	5.0300	1.30555	24	5.4630	2.00165				
25	5.6250	2.47165	26	6.3236	2.47165	27	6.3990	2.50728	28	7.8210	2.50728				

29	7.8540	2.35329	30	9.1630	1.24583	31	9.2730	1.15170	32	10.4940	0.94732
33	11.0000	0.74052	34	12.3200	0.48176	35	17.5120	0.48176	36	18.5460	0.36104
37	19.9869	0.34122	38	22.8690	0.34122	39	26.6474	0.27380	40	39.5000	0.27380

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.; SET NO. = 18  
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ; DAMPING = 0.02  
 FIGURE NO. 1333-B DIRECTION 3 AT ELEVATION 852.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1333				DEGREE OF FREEDOM = 3		NUMBER OF GRIDS = 42		DAMPING VALUE = 0.020			
1	0.9000	0.12952	2	0.9450	0.13423	3	1.0069	0.13423	4	1.0620	0.17106
5	1.1250	0.18055	6	1.2966	0.18055	7	1.3230	0.20565	8	1.3590	0.23891
9	1.5760	0.23891	10	1.6650	0.26937	11	1.7280	0.33531	12	1.8000	0.33815
13	1.8720	0.38610	14	2.0933	0.38610	15	2.1420	0.39768	16	2.4031	0.39768
17	2.5020	0.44595	18	2.8170	0.51549	19	2.9970	0.62496	20	3.4650	0.73331
21	4.0000	1.12375	22	5.0040	1.12375	23	5.4630	1.74003	24	5.6250	2.14668
25	6.3492	2.14668	26	6.3990	2.16713	27	7.8210	2.16713	28	7.8540	2.03581
29	9.2730	0.99146	30	10.4940	0.79587	31	11.0000	0.60771	32	11.8525	0.46931
33	13.9370	0.46931	34	14.2120	0.46008	35	14.6563	0.39704	36	16.7420	0.39704
37	17.1670	0.38887	38	18.5460	0.33770	39	20.0310	0.32412	40	21.9085	0.26557
41	22.86	0.26557	42	39.5000	0.24703						

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.; SET NO. = 19  
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ; DAMPING = 0.02  
 FIGURE NO. 1334-B DIRECTION 3 AT ELEVATION 831.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1334				DEGREE OF FREEDOM = 3		NUMBER OF GRIDS = 46		DAMPING VALUE = 0.020			
1	0.9000	0.12813	2	0.9450	0.13310	3	1.0068	0.13310	4	1.0620	0.16930
5	1.1250	0.17486	6	1.2939	0.17486	7	1.3590	0.23376	8	1.5810	0.23376
9	1.6650	0.26096	10	1.7280	0.32022	11	1.8000	0.32672	12	1.8720	0.37077
13	2.1139	0.37077	14	2.1420	0.37612	15	2.4147	0.37612	16	2.5020	0.41172
17	2.6460	0.42169	18	2.9970	0.55702	19	3.4650	0.62316	20	4.0000	0.92221
21	5.0040	0.92221	22	5.4630	1.39408	23	5.6250	1.69014	24	6.8750	1.69014
25	6.9960	1.66904	26	6.9982	1.66621	27	7.8210	1.66621	28	8.8639	1.04054
29	9.1630	1.04054	30	11.0000	0.49305	31	11.3016	0.45161	32	13.9370	0.45161
33	14.2120	0.44958	34	14.6837	0.39361	35	16.7420	0.39361	36	17.1600	0.37250
37	17.5120	0.35462	38	18.5460	0.29811	39	20.0310	0.27149	40	20.8858	0.25683
41	22.8690	0.25683	42	29.4140	0.22001	43	34.7410	0.21036	44	35.4330	0.21036
45	36.0000	0.21165	46	39.5000	0.21165						

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.; SET NO. = 20  
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ; DAMPING = 0.02  
 FIGURE NO. 1335-B DIRECTION 3 AT ELEVATION 810.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1335				DEGREE OF FREEDOM = 3		NUMBER OF GRIDS = 47		DAMPING VALUE = 0.020			
1	0.9000	0.12624	2	0.9450	0.13139	3	1.0064	0.13139	4	1.0620	0.16681
5	1.1250	0.16774	6	1.2902	0.16774	7	1.3590	0.22762	8	1.5928	0.22762
9	1.6650	0.24980	10	1.7280	0.29871	11	1.8000	0.30914	12	1.8720	0.34963
13	2.2880	0.34963	14	2.7919	0.34931	15	2.4477	0.34931	16	2.5020	0.36493
17	2.8170	0.42100	18	2.9970	0.48871	19	3.4704	0.48871	20	4.0000	0.66869
21	5.0040	0.66869	22	5.6250	1.01038	23	6.8750	1.01038	24	6.9960	0.98385
25	7.0622	0.92455	26	7.8210	0.92455	27	7.8362	0.90367	28	8.8880	0.90367
29	9.1630	0.88691	30	9.2730	0.85900	31	10.4940	0.47049	32	11.0000	0.36241
33	11.8892	0.31881	34	13.9370	0.31881	35	14.2120	0.30432	36	14.5369	0.27290
37	16.1480	0.27290	38	16.7420	0.27032	39	17.1600	0.25	40	17.3980	0.25417
41	18.0000	0.26812	42	22.0000	0.26812	43	22.8690	0.25997	44	27.0930	0.16267
45	29.4140	0.15857	46	32.4901	0.15327	47	39.5000	0.15327			

JUSTIFIED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ; DAMPING = 0.02

FIGURE NO. 1336-B

DIRECTION 3

AT ELEVATION 790.50 FEET

SET NO. = 21

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1336				DEGREE OF FREEDOM = 3		NUMBER OF GRIDS = 40		DAMPING VALUE = 0.020			
1	0.9000	0.12389	2	0.9450	0.12925	3	1.0051	0.12925	4	1.0620	0.16371
5	1.2912	0.16371	6	1.3230	0.18245	7	1.3590	0.22138	8	1.6119	0.22138
9	1.7280	0.27758	10	1.8720	0.32942	11	2.2880	0.32942	12	2.3063	0.32768
13	2.5324	0.32768	14	2.8170	0.36910	15	2.9970	0.41451	16	3.6347	0.41451
17	3.7530	0.45252	18	5.6250	0.45252	19	5.7240	0.46818	20	5.9594	0.46818
21	6.3990	0.56257	22	7.2720	0.73854	23	8.8880	0.73854	24	9.1630	0.72176
25	9.2730	0.69317	26	10.4940	0.32160	27	11.0000	0.26297	28	12.3200	0.25102
29	13.0637	0.25102	30	13.2120	0.26063	31	13.6989	0.27116	32	14.0924	0.27116
33	14.3280	0.29024	34	17.5120	0.29024	35	18.0772	0.25529	36	20.0310	0.25529
37	22.0000	0.21755	38	27.0209	0.12708	39	29.4140	0.12708	40	39.5000	0.11248



TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.02  
 FIGURE NO. 1295-B DIRECTION 1 AT ELEVATION 899.50 FEET

SET NO. = 1

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1295				DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 43		DAMPING VALUE = 0.020			
1	0.9000	0.27039	2	0.9450	0.27836	3	1.0105	0.27836	4	1.0620	0.34649
5	1.1250	0.37255	6	1.2926	0.37255	7	1.3230	0.42906	8	1.3590	0.49261
9	1.5030	0.49317	10	1.5688	0.49317	11	1.6650	0.56754	12	1.7280	0.70664
13	1.8036	0.70664	14	1.8720	0.82599	15	2.0394	0.82599	16	2.1420	0.89156
17	2.4131	0.89156	18	2.5020	0.98120	19	2.8170	1.15788	20	3.3300	1.35889
21	4.1000	2.58390	22	4.5000	3.50608	23	5.0921	3.50608	24	5.4630	5.18850
25	5.6250	5.51443	26	5.7240	5.52313	27	6.9960	5.52313	28	7.0290	5.36885
29	7.1280	4.84447	30	7.8210	3.47129	31	7.8540	3.28743	32	8.8880	2.59544
33	9.1630	2.33432	34	10.7047	1.75380	35	11.4431	1.75380	36	11.6280	1.77602
37	12.4470	1.82979	38	15.2130	1.82979	39	16.7420	1.74139	40	20.0310	1.04717
41	27.0930	0.67397	42	29.4140	0.67173	43	39.5000	0.63193			

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.02  
 FIGURE NO. 1296-B DIRECTION 1 AT ELEVATION 886.50 FEET

SET NO. = 2

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1296				DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 40		DAMPING VALUE = 0.020			
1	0.9000	0.26750	2	0.9450	0.27589	3	1.0102	0.27589	4	1.0620	0.34383
5	1.1250	0.36684	6	1.2925	0.36684	7	1.3590	0.48594	8	1.5699	0.48594
9	1.6650	0.55664	10	1.7280	0.68782	11	1.8007	0.68782	12	1.8720	0.80505
13	2.0441	0.80505	14	2.1420	0.86271	15	2.4230	0.86271	16	2.5020	0.93079
17	2.8170	1.09701	18	3.3300	1.28559	19	4.1000	2.33817	20	4.3500	3.06949
21	5.0757	3.06949	22	5.4630	4.56350	23	5.6250	4.81791	24	6.8750	4.81791
25	6.9960	4.81272	26	7.0290	4.70418	27	7.1280	4.21736	28	7.8210	2.94764
29	7.8540	2.78568	30	8.8880	2.14683	31	9.1630	1.94254	32	11.0000	1.33876
33	11.8533	1.24107	34	14.2120	1.24107	35	15.2130	1.23258	36	16.7420	1.19688
37	20.0310	0.76840	38	27.0930	0.57071	39	29.4140	0.56563	40	39.5000	0.52973

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.02  
 FIGURE NO. 1297-B DIRECTION 1 AT ELEVATION 873.50 FEET

SET NO. = 3

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1297				DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 39		DAMPING VALUE = 0.020			
1	0.9000	0.26466	2	0.9450	0.27348	3	1.0098	0.27348	4	1.0620	0.34122
5	1.1250	0.36124	6	1.2923	0.36124	7	1.3590	0.47939	8	1.5719	0.47939
9	1.6650	0.54594	10	1.7280	0.66926	11	1.8000	0.67329	12	1.8720	0.78438
13	2.0495	0.78438	14	2.1420	0.83424	15	2.3978	0.83424	16	2.8170	1.03691
17	3.3300	1.21335	18	4.0000	2.09478	19	4.4500	2.65533	20	5.0574	2.65533
21	5.4630	3.94721	22	5.6250	4.13171	23	6.8750	4.13171	24	6.9960	4.11279
25	7.0290	4.04970	26	7.1280	3.59963	27	7.8210	2.43374	28	7.8540	2.29339
29	8.8880	1.71193	30	9.1630	1.56502	31	10.4940	1.19869	32	12.3200	0.81160
33	13.5895	0.77104	34	14.2120	0.77104	35	15.1594	0.68817	36	16.7420	0.68817
37	20.0310	0.56037	38	35.0177	0.43440	39	39.5000	0.43440			

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.02  
 FIGURE NO. 1298-B DIRECTION 1 AT ELEVATION 852.50 FEET

SET NO. = 4

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1298						DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 47		DAMPING VALUE = 0.020	
1	0.9000	0.26188	2	0.9450	0.27117	3	1.0093	0.27117	4	1.0620	0.33893
5	1.1250	0.35295	6	1.2913	0.35295	7	1.3590	0.47191	8	1.5768	0.47191
9	1.6650	0.53280	10	1.7280	0.64702	11	1.8000	0.65660	12	1.8720	0.75999
13	2.0587	0.75999	14	2.1420	0.80063	15	2.4151	0.80063	16	2.8170	0.97047
17	2.9970	1.13314	18	3.3420	1.13314	19	3.4650	1.21026	20	3.8969	1.83388
21	4.2000	2.24606	22	5.0384	2.24606	23	5.4630	3.30792	24	5.5250	3.46718
25	6.8750	3.46718	26	6.9960	3.43356	27	7.0290	3.39664	28	7.1280	2.98432
29	7.8210	1.92648	30	7.8540	1.80823	31	9.0937	1.39919	32	9.2730	1.39919
33	10.4940	0.96846	34	11.0000	0.80063	35	12.3200	0.64274	36	12.5339	0.63283
37	14.2120	0.63283	38	14.3755	0.61987	39	15.2570	0.61987	40	16.7420	0.61042
41	16.9623	0.58650	42	17.5120	0.58650	43	18.5460	0.49718	44	22.0000	0.47970
45	22.8690	0.42977	46	29.4140	0.38562	47	39.5000	0.36702			

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.; SET NO. = 5  
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.02  
FIGURE NO. 1299-B DIRECTION 1 AT ELEVATION 831.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1299						DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 43		DAMPING VALUE = 0.020	
1	0.9000	0.25650	2	0.9450	0.26599	3	1.0084	0.26599	4	1.0620	0.33287
5	1.1250	0.34235	6	1.2898	0.34235	7	1.3590	0.46037	8	1.5835	0.46037
9	1.6650	0.51325	10	1.7280	0.61401	11	1.8000	0.62990	12	1.8720	0.72402
13	2.0751	0.72402	14	2.1420	0.75099	15	2.4829	0.75099	16	2.6460	0.79996
17	2.9970	1.01604	18	3.4561	1.01604	19	3.4650	1.01932	20	3.7530	1.48643
21	3.9299	1.48643	22	4.0860	1.66025	23	4.1490	1.70914	24	5.0541	1.70914
25	5.4630	2.29980	26	5.6250	2.40377	27	6.8750	2.40377	28	6.9960	2.35827
29	7.0290	2.31699	30	7.1280	2.01842	31	7.7506	1.27754	32	8.8880	1.27754
33	9.2730	1.19906	34	10.4940	0.72308	35	11.0000	0.59814	36	13.6624	0.57912
37	16.1489	0.57912	38	17.5120	0.54731	39	18.5460	0.41877	40	20.0310	0.37795
41	22.8690	0.37504	42	22.8690	0.34819	43	39.5000	0.29052			

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.; SET NO. = 6  
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.02  
FIGURE NO. 1300-B DIRECTION 1 AT ELEVATION 810.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1300						DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 45		DAMPING VALUE = 0.020	
1	0.9000	0.25182	2	0.9450	0.26176	3	1.0074	0.26176	4	1.0620	0.32839
5	1.1250	0.33004	6	1.2878	0.33004	7	1.3590	0.44874	8	1.5868	0.44874
9	1.6110	0.45462	10	1.7280	0.57829	11	1.8000	0.60120	12	1.8720	0.68536
13	2.0989	0.68536	14	2.1420	0.69887	15	2.5733	0.69887	16	2.6460	0.71367
17	2.9970	0.89170	18	3.5289	0.89170	19	3.7530	1.12652	20	4.0256	1.12652
21	4.1490	1.19014	22	5.2118	1.19014	23	5.4630	1.30837	24	5.6250	1.31470
25	6.8750	1.31470	26	6.9960	1.26355	27	7.0290	1.21875	28	7.1004	1.11394
29	8.8880	1.11394	30	9.1630	1.02938	31	10.3158	0.63179	32	11.2950	0.63179
33	11.4030	0.68956	34	13.9370	0.68956	35	14.2120	0.65303	36	15.2570	0.50821
37	16.1480	0.49333	38	16.7420	0.46153	39	17.0274	0.43946	40	17.5120	0.43946
41	18.3112	0.37422	42	22.0000	0.37422	43	22.8690	0.36724	44	27.0930	0.28011
45	39.5000	0.22592									

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.; SET NO. = 7  
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.02  
FIGURE NO. 1301-B DIRECTION 1 AT ELEVATION 790.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1301						DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 40		DAMPING VALUE = 0.020	
1	0.9000	0.24777	2	0.9450	0.25821	3	1.0055	0.25821	4	1.0620	0.32774
5	1.2922	0.32774	6	1.3230	0.36261	7	1.3590	0.43937	8	1.6131	0.43937
9	1.7280	0.54776	10	1.8720	0.65246	11	2.1298	0.65246	12	2.1420	0.65811

13	2.6180	0.65811	14	2.6387	0.64837	15	2.6460	0.64837	16	2.8170	0.72108
17	2.9970	0.78843	18	3.6540	0.78843	19	3.7530	0.85122	20	4.5870	0.85122
21	4.6204	0.82591	22	5.0900	0.82591	23	5.1900	0.79312	24	5.4630	0.79312
25	5.6250	0.88215	26	5.7240	0.92483	27	6.1658	0.92483	28	6.3990	0.97263
29	7.2720	1.06355	30	8.8880	1.06355	31	10.1722	0.64363	32	13.9370	0.64363
33	14.2120	0.60879	34	15.9668	0.38999	35	18.5460	0.38999	36	20.0310	0.37266
37	22.0000	0.33765	38	22.8690	0.31852	39	27.0930	0.21508	40	39.5000	0.19171

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.02

FIGURE NO. 1295-B

DIRECTION 2

AT ELEVATION 899.50 FEET

SET NO. = 8

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1295				DEGREE OF FREEDOM = 2		NUMBER OF GRIDS = 38		DAMPING VALUE = 0.020			
1	0.9000	0.19517	2	0.9450	0.19964	3	1.0040	0.19964	4	1.0620	0.25602
5	1.1250	0.26671	6	1.2749	0.26671	7	1.2870	0.27076	8	1.3230	0.32535
9	1.3590	0.35788	10	1.5868	0.35788	11	1.6650	0.37251	12	1.7280	0.43977
13	1.8000	0.49286	14	1.8720	0.52073	15	2.1420	0.56429	16	2.3036	0.56429
17	2.3670	0.59021	18	2.5020	0.71912	19	2.8170	0.93617	20	3.3300	1.15147
21	4.1700	2.64891	22	4.6500	3.58797	23	5.2683	3.58797	24	5.7240	4.53529
25	6.9960	4.53529	26	7.0290	4.49326	27	7.8210	4.02044	28	14.5000	4.02044
29	16.1480	3.22774	30	16.7420	3.17545	31	18.5460	2.22200	32	20.0310	1.63936
33	22.0000	1.46913	34	22.8690	1.27278	35	27.0930	1.07495	36	29.4140	0.96476
37	36.3000	0.64366	38	39.5000	0.61721						

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.02

FIGURE NO. 1296-B

DIRECTION 2

AT ELEVATION 886.50 FEET

SET NO. = 9

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1296				DEGREE OF FREEDOM = 2		NUMBER OF GRIDS = 36		DAMPING VALUE = 0.020			
1	0.9000	0.19480	2	0.9450	0.19957	3	1.0040	0.19957	4	1.0620	0.25560
5	1.1250	0.26565	6	1.2752	0.26565	7	1.2870	0.26952	8	1.3230	0.32435
9	1.3590	0.35708	10	1.5920	0.35708	11	1.6650	0.37006	12	1.7280	0.43690
13	1.8000	0.49053	14	1.8720	0.51699	15	2.1420	0.55920	16	2.3079	0.55920
17	2.3670	0.58116	18	2.5020	0.70591	19	2.8170	0.92066	20	3.3300	1.12875
21	4.1700	2.56687	22	4.7000	3.50292	23	5.2453	3.50292	24	5.7240	4.52713
25	6.9960	4.52713	26	7.0290	4.48091	27	7.8210	3.82553	28	15.1000	3.82553
29	16.1480	3.06628	30	16.7420	3.01568	31	18.5460	2.11606	32	20.0310	1.57340
33	22.0000	1.37817	34	22.8690	1.19574	35	36.3000	0.59705	36	39.5000	0.58890

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.02

FIGURE NO. 1297-B

DIRECTION 2

AT ELEVATION 873.50 FEET

SET NO. = 10

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1297				DEGREE OF FREEDOM = 2		NUMBER OF GRIDS = 37		DAMPING VALUE = 0.020			
1	0.9000	0.19541	2	0.9450	0.20055	3	1.0639	0.20055	4	1.0620	0.25660
5	1.1250	0.26634	6	1.2744	0.26634	7	1.2870	0.27047	8	1.3230	0.32548
9	1.3590	0.35833	10	1.5939	0.35833	11	1.6650	0.37082	12	1.7280	0.43811
13	1.8000	0.49210	14	1.8720	0.51813	15	2.1420	0.56170	16	2.3086	0.56170
17	2.3670	0.58298	18	2.5020	0.70874	19	2.8170	0.92600	20	3.3300	1.13543
21	4.1700	2.59768	22	4.6500	3.57449	23	5.2443	3.57449	24	5.7240	4.62319
25	6.9960	4.62319	26	7.0290	4.57177	27	7.8210	3.69642	28	14.8300	3.69642
29	16.1480	2.98960	30	16.7420	2.93893	31	18.5460	2.07705	32	20.0310	1.56440
33	22.0000	1.33464	34	22.8690	1.16227	35	29.4140	0.78284	36	36.3000	0.60699
37	39.5000	0.60040									

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.02

SET NO. = 11

FIGURE NO. 1298-B

DIRECTION 2

AT ELEVATION 852.50 FEET

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1298

DEGREE OF FREEDOM = 2

NUMBER OF GRIDS = 36

DAMPING VALUE = 0.020

1	0.9000	0.19605	2	0.9450	0.20014	3	1.0037	0.20014	4	1.0620	0.25735
5	1.1250	0.26701	6	1.2753	0.26701	7	1.2870	0.27085	8	1.3230	0.32565
9	1.3590	0.35836	10	1.5930	0.35836	11	1.6650	0.37113	12	1.7280	0.43803
13	1.8000	0.49110	14	1.8720	0.51894	15	2.1420	0.56215	16	2.3086	0.56215
17	2.3670	0.58471	18	2.5020	0.70988	19	2.8170	0.92621	20	3.3300	1.13723
21	4.1700	2.59643	22	4.8000	3.59759	23	5.2642	3.59759	24	5.7240	4.56065
25	6.9960	4.56065	26	7.0290	4.51639	27	7.8176	3.46060	28	13.8300	3.46060
29	16.1480	2.76717	30	16.7420	2.69539	31	17.1600	2.47629	32	20.0310	1.42284
33	22.0000	1.19093	34	22.8690	1.03931	35	29.4140	0.65808	36	39.5000	0.59718

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.02

SET NO. = 12

FIGURE NO. 1299-B

DIRECTION 2

AT ELEVATION 831.50 FEET

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1299

DEGREE OF FREEDOM = 2

NUMBER OF GRIDS = 41

DAMPING VALUE = 0.020

1	0.9000	0.19541	2	0.9450	0.19923	3	1.0035	0.19923	4	1.0620	0.25578
5	1.1250	0.26484	6	1.2733	0.26484	7	1.2870	0.26943	8	1.3230	0.32398
9	1.3590	0.35666	10	1.5928	0.35666	11	1.6650	0.36979	12	1.7280	0.43573
13	1.8000	0.48866	14	1.8720	0.51734	15	2.1420	0.55889	16	2.3064	0.55889
17	2.3670	0.58312	18	2.5020	0.70608	19	2.8170	0.92212	20	2.9970	1.13264
21	3.2130	1.18621	22	3.4650	1.56385	23	4.1700	2.59108	24	4.8000	3.52911
25	5.2893	3.52911	26	5.7240	4.37761	27	6.9960	4.37761	28	7.0290	4.33677
29	7.7988	3.06774	30	8.8880	3.06774	31	9.2730	3.05130	32	12.4470	2.94710
33	13.8300	2.94710	34	16.1480	2.35001	35	16.7420	2.30748	36	17.1600	2.12932
37	20.0310	1.17069	38	22.0000	0.95441	39	22.8690	0.82370	40	27.0930	0.60508
41	39.5000	0.57371									

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.02

SET NO. = 13

FIGURE NO. 1300-B

DIRECTION 2

AT ELEVATION 810.50 FEET

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1300

DEGREE OF FREEDOM = 2

NUMBER OF GRIDS = 41

DAMPING VALUE = 0.020

1	0.9000	0.19346	2	0.9450	0.19683	3	1.0034	0.19683	4	1.0620	0.25327
5	1.1250	0.26233	6	1.2786	0.26233	7	1.2870	0.26491	8	1.3230	0.31990
9	1.3590	0.35312	10	1.6048	0.35312	11	1.6650	0.36362	12	1.7280	0.42828
13	1.8000	0.48184	14	1.8720	0.50986	15	2.1420	0.54781	16	2.3102	0.54781
17	2.3670	0.56890	18	2.5020	0.68491	19	2.8170	0.89380	20	2.9970	1.09376
21	3.2130	1.14104	22	3.4650	1.49342	23	4.1700	2.46330	24	4.8000	3.35322
25	5.3077	3.35322	26	5.7240	4.09745	27	6.9960	4.09745	28	7.0290	4.05135
29	7.7374	3.02098	30	8.8880	3.02098	31	9.2730	2.99494	32	10.0030	2.30920
33	12.3200	2.30920	34	12.5466	2.21809	35	15.2130	2.21809	36	16.1480	1.74930
37	16.7420	1.71650	38	18.5460	1.22509	39	20.0310	0.82123	40	22.8690	0.59106
41	39.5000	0.54650									

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.02

SET NO. = 14

FIGURE NO. 1301-B

DIRECTION 2

AT ELEVATION 790.50 FEET

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1301

DEGREE OF FREEDOM = 2

NUMBER OF GRIDS = 44

DAMPING VALUE = 0.020

1	0.9000	0.18910	2	0.9450	0.19260	3	1.0037	0.19260	4	1.0620	0.24743
5	1.1250	0.25625	6	1.2819	0.25625	7	1.2870	0.25772	8	1.3230	0.31151
9	1.3590	0.34655	10	1.6319	0.34655	11	1.6650	0.35185	12	1.7280	0.41571
13	1.8000	0.46824	14	1.8720	0.49248	15	2.1420	0.52400	16	2.3253	0.52400
17	2.3670	0.53492	18	2.5020	0.64204	19	2.8170	0.83583	20	2.9970	1.01192
21	3.2130	1.04454	22	3.4650	1.33726	23	4.1700	2.20401	24	4.6000	2.82155



25	5.2486	2.82155	26	5.6250	3.45190	27	5.7240	3.68874	28	6.9960	3.68874
29	7.0290	3.65742	30	7.8050	2.64314	31	9.2730	2.64314	32	10.2451	1.86948
33	12.3200	1.86948	34	12.9464	1.65842	35	14.2120	1.65842	36	14.5922	1.49531
37	15.2130	1.49531	38	16.1475	1.18516	39	16.7420	1.18516	40	17.1600	1.13324
41	20.0310	0.60006	42	22.0000	0.55892	43	27.0930	0.49294	44	39.5000	0.47117

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.02

FIGURE NO. 1295-B DIRECTION 3 AT ELEVATION 899.50 FEET

SET NO. = 15

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1295			DEGREE OF FREEDOM = 3			NUMBER OF GRIDS = 45			DAMPING VALUE = 0.020		
1	0.9000	0.26558	2	0.9450	0.27348	3	1.0077	0.27348	4	1.0620	0.34790
5	1.1250	0.38101	6	1.2986	0.38101	7	1.3230	0.43408	8	1.3590	0.49363
9	1.5636	0.49363	10	1.6650	0.56596	11	1.7280	0.72582	12	1.8040	0.72582
13	1.8720	0.82794	14	2.0708	0.82794	15	2.1420	0.87682	16	2.3860	0.87682
17	2.5020	1.04499	18	2.8170	1.18459	19	2.9970	1.47255	20	3.4650	1.83130
21	4.1700	2.95929	22	5.1280	2.95929	23	5.4630	3.94227	24	5.6250	4.77280
25	6.8750	4.77280	26	6.9960	4.75900	27	7.0290	4.69194	28	7.0635	4.48426
29	7.8210	4.48426	30	7.8540	4.23567	31	8.8880	3.23073	32	9.2730	2.65195
33	11.0000	1.52849	34	12.3103	0.98172	35	13.0381	0.98172	36	13.2120	1.02074
37	16.1480	1.02074	38	16.1608	1.01827	39	17.5120	1.01827	40	18.2696	0.82865
41	22.8690	0.82865	42	26.8243	0.57423	43	29.4140	0.57423	44	36.3000	0.53227
45	39.5000	0.52523									

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.02

FIGURE NO. 1296-B DIRECTION 3 AT ELEVATION 886.50 FEET

SET NO. = 16

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1296			DEGREE OF FREEDOM = 3			NUMBER OF GRIDS = 45			DAMPING VALUE = 0.020		
1	0.9000	0.26359	2	0.9450	0.27191	3	1.0075	0.27191	4	1.0620	0.34581
5	1.1250	0.37503	6	1.2979	0.37503	7	1.3230	0.42694	8	1.3590	0.48884
9	1.5671	0.48884	10	1.6650	0.55753	11	1.7280	0.70933	12	1.8011	0.70933
13	1.8720	0.81181	14	2.0760	0.81181	15	2.1420	0.85302	16	2.3892	0.85302
17	2.5020	0.99848	18	2.8170	1.13801	19	2.9970	1.40451	20	3.4650	1.71475
21	4.1700	2.71741	22	5.1097	2.71741	23	5.4630	3.63962	24	5.6250	4.40863
25	6.8750	4.40863	26	6.9960	4.39085	27	7.0290	4.32343	28	7.0642	4.13024
29	7.8210	4.13024	30	7.8540	3.89636	31	8.8880	2.93197	32	9.2730	2.39300
33	10.4940	1.65762	34	12.3200	0.87881	35	13.9172	0.83845	36	14.1394	0.83845
37	14.3280	0.88644	38	17.5120	0.88644	39	18.5460	0.68384	40	18.5528	0.68384
41	18.7110	0.69823	42	22.8690	0.69823	43	26.8890	0.51089	44	29.4140	0.51089
45	39.5000	0.46707									

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.02

FIGURE NO. 1297-B DIRECTION 3 AT ELEVATION 873.50 FEET

SET NO. = 17

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1297			DEGREE OF FREEDOM = 3			NUMBER OF GRIDS = 46			DAMPING VALUE = 0.020		
1	0.9000	0.26171	2	0.9450	0.27046	3	1.0073	0.27046	4	1.0620	0.34384
5	1.1250	0.36917	6	1.2972	0.36917	7	1.3230	0.41997	8	1.3590	0.48430
9	1.5707	0.48430	10	1.6650	0.54940	11	1.7280	0.69321	12	1.8000	0.69615
13	1.8720	0.79614	14	2.0824	0.79614	15	2.1420	0.82981	16	2.3931	0.82981
17	2.5020	0.95280	18	2.8170	1.09280	19	2.9970	1.33827	20	3.4650	1.60079
21	4.1700	2.47983	22	5.0869	2.47983	23	5.4630	3.34545	24	5.6250	4.05537
25	6.8750	4.05537	26	6.9960	4.03425	27	7.0290	3.96628	28	7.0643	3.79068
29	7.8210	3.79068	30	7.8540	3.57130	31	8.8880	2.65528	32	9.2730	2.15644
33	10.4940	1.52142	34	11.0000	1.23250	35	12.3200	0.79239	36	12.9031	0.75966
37	14.2575	0.75966	38	14.3280	0.77296	39	17.5120	0.77296	40	18.5460	0.61698
41	20.0310	0.58514	42	20.4539	0.57517	43	22.8690	0.57517	44	27.0375	0.45164



45 29.4140 0.45164 46 39.5000 0.42776

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.02  
FIGURE NO. 1298-B DIRECTION 3 AT ELEVATION 852.50 FEET

SET NO. = 18

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1298				DEGREE OF FREEDOM = 3		NUMBER OF GRIDS = 44		DAMPING VALUE = 0.020			
1	0.9000	0.25926	2	0.9450	0.26860	3	1.0070	0.26860	4	1.0620	0.34117
5	1.1250	0.35935	6	1.2953	0.35935	7	1.3590	0.47633	8	1.5752	0.47633
9	1.6650	0.53676	10	1.7280	0.66765	11	1.8000	0.67666	12	1.8720	0.77058
13	2.0931	0.77058	14	2.1420	0.79412	15	2.4020	0.79412	16	2.5020	0.88723
17	2.8170	1.02521	18	2.9970	1.24260	19	3.4650	1.41919	20	4.1000	2.12621
21	5.0546	2.12621	22	5.4630	2.91805	23	5.6250	3.39128	24	6.8750	3.39128
25	6.9960	3.39128	26	7.0290	3.39128	27	7.0654	3.26078	28	7.8210	3.26078
29	7.8540	3.06555	30	8.8880	2.23693	31	9.2730	1.79102	32	10.4940	1.24792
33	11.0090	0.99061	34	11.6514	0.81574	35	13.9370	0.81574	36	15.2570	0.63977
37	15.7355	0.61665	38	16.7420	0.61665	39	17.5120	0.58709	40	18.5460	0.53215
41	20.0310	0.52337	42	22.0090	0.43115	43	29.4140	0.39068	44	39.5000	0.37811

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.02  
FIGURE NO. 1299-B DIRECTION 3 AT ELEVATION 831.50 FEET

SET NO. = 19

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1299				DEGREE OF FREEDOM = 3		NUMBER OF GRIDS = 43		DAMPING VALUE = 0.020			
1	0.9000	0.25640	2	0.9450	0.26641	3	1.0068	0.26641	4	1.0620	0.33792
5	1.1250	0.34849	6	1.2930	0.34849	7	1.3590	0.46755	8	1.5828	0.46755
9	1.6650	0.52088	10	1.7280	0.63653	11	1.8000	0.65289	12	1.8720	0.74064
13	2.1160	0.74064	14	2.1420	0.75060	15	2.4136	0.75060	16	2.5020	0.81857
17	2.6460	0.84030	18	2.9970	1.12866	19	3.4650	1.20905	20	4.1700	1.75085
21	5.0074	1.75085	22	5.6250	2.73240	23	6.8750	2.73240	24	6.9960	2.73240
25	7.0290	2.67736	26	7.0773	2.51967	27	7.8210	2.51967	28	8.8880	1.83482
29	9.1630	1.83277	30	11.0000	0.92505	31	11.5002	0.78621	32	13.9370	0.78621
33	14.2120	0.74549	34	14.6630	0.66474	35	14.9637	0.60750	36	16.7420	0.60750
37	17.1600	0.57970	38	18.5460	0.48310	39	21.5777	0.41098	40	22.8690	0.41098
41	26.8632	0.34878	42	29.4140	0.34878	43	39.5000	0.32457			

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.02  
FIGURE NO. 1300-B DIRECTION 3 AT ELEVATION 810.50 FEET

SET NO. = 20

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1300				DEGREE OF FREEDOM = 3		NUMBER OF GRIDS = 45		DAMPING VALUE = 0.020			
1	0.9000	0.25182	2	0.9450	0.26221	3	1.0064	0.26221	4	1.0620	0.33244
5	1.1250	0.33397	6	1.2892	0.33397	7	1.3590	0.45477	8	1.5933	0.45477
9	1.6650	0.49818	10	1.7280	0.59514	11	1.8000	0.61758	12	1.8720	0.69863
13	2.1400	0.69863	14	2.1420	0.69928	15	2.4520	0.69928	16	2.5020	0.72579
17	2.8170	0.83990	18	2.9970	0.97412	19	3.4888	0.97412	20	4.1700	1.27815
21	5.0040	1.27815	22	5.4630	1.53009	23	5.6250	1.70030	24	6.8750	1.70030
25	6.9960	1.64855	26	7.0290	1.58964	27	7.1288	1.58964	28	7.2720	1.63128
29	8.8880	1.63128	30	9.1630	1.56917	31	11.0000	0.68520	32	12.1304	0.57564
33	13.6950	0.57564	34	14.2120	0.52452	35	14.5680	0.47009	36	16.1480	0.47009
37	16.7420	0.44966	38	17.7364	0.44966	39	18.0000	0.45635	40	22.0000	0.45635
41	22.8690	0.43021	42	27.0930	0.28430	43	29.4140	0.27558	44	35.8990	0.25043
45	39.5060	0.25043									

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.02  
FIGURE NO. 1301-B DIRECTION 3 AT ELEVATION 790.50 FEET

SET NO. = 21

NO. OF SPECTRA = 1

171  
171

BROADENED SPECTRUM FOR NODE=1301				DEGREE OF FREEDOM =		3		NUMBER OF GRIDS = 38		DAMPING VALUE = 0.020	
1	0.9000	0.24784	2	0.9450	0.25859	3	1.0058	0.25859	4	1.0620	0.32759
5	1.2917	0.32759	6	1.3230	0.36390	7	1.3590	0.44253	8	1.6122	0.44253
9	1.7280	0.55449	10	1.8720	0.65783	11	2.2880	0.65783	12	2.2972	0.65608
13	2.5838	0.65608	14	2.6460	0.66528	15	2.9970	0.82617	16	3.6633	0.82617
17	3.7530	0.87932	18	5.7240	0.91281	19	5.9986	0.91281	20	6.3990	1.06991
21	7.2720	1.34432	22	8.8880	1.34432	23	9.1630	1.28863	24	9.2730	1.23452
25	10.4940	0.61409	26	11.0000	0.51735	27	12.3200	0.48728	28	12.3629	0.48529
29	13.2120	0.48529	30	14.1955	0.48529	31	14.3280	0.49909	32	17.5120	0.49909
33	18.2453	0.44665	34	20.0310	0.44665	35	22.0000	0.38639	36	26.8025	0.23467
37	29.4140	0.23467	38	39.5000	0.20504						

## TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX ; DAMPING = 0.03

FIGURE NO. 1302-B

DIRECTION 1

AT ELEVATION 899.50 FEET

SET NO. = 1

NO. OF SPECTRA = 1

## BROADENED SPECTRUM FOR NODE=1302

DEGREE OF FREEDOM =

1

NUMBER OF GRIDS = 46

DAMPING VALUE = 0.030

1	0.9000	0.25377	2	0.9450	0.26229	3	1.0073	0.26229	4	1.0620	0.30732
5	1.2870	0.34496	6	1.3590	0.39762	7	1.4089	0.39762	8	1.4490	0.44296
9	1.5030	0.45641	10	1.5841	0.45641	11	1.6650	0.51563	12	1.7280	0.59853
13	1.8056	0.59853	14	1.8720	0.68231	15	2.0420	0.68231	16	2.0430	0.68270
17	2.1420	0.72014	18	2.5020	0.83167	19	2.9970	1.13158	20	3.2130	1.14668
21	3.4650	1.46213	22	4.3500	2.92728	23	5.0288	2.92728	24	5.4630	4.33580
25	5.6250	4.48688	26	5.7240	4.57266	27	6.9960	4.57266	28	7.8210	2.90474
29	8.8880	2.25521	30	9.2730	1.93062	31	10.4940	1.65454	32	10.9363	1.47908
33	11.2050	1.47908	34	11.9970	1.54656	35	12.4470	1.56007	36	15.2130	1.56007
37	16.1480	1.54937	38	16.7420	1.53768	39	17.1600	1.44578	40	17.5120	1.31573
41	18.5460	1.18621	42	20.0310	0.97669	43	22.8690	0.82125	44	27.0930	0.67252
45	29.4140	0.66757	46	39.5000	0.63029						

## TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX ; DAMPING = 0.03

FIGURE NO. 1303-B

DIRECTION 1

AT ELEVATION 886.50 FEET

SET NO. = 2

NO. OF SPECTRA = 1

## BROADENED SPECTRUM FOR NODE=1303

DEGREE OF FREEDOM =

1

NUMBER OF GRIDS = 41

DAMPING VALUE = 0.030

1	0.9000	0.25106	2	0.9450	0.25982	3	1.0067	0.25982	4	1.0620	0.30483
5	1.2870	0.34005	6	1.3590	0.39217	7	1.4090	0.39217	8	1.4490	0.43336
9	1.5030	0.44707	10	1.5833	0.44707	11	1.6650	0.50549	12	1.7280	0.58156
13	1.8012	0.58156	14	1.8720	0.66434	15	2.0452	0.66434	16	2.1420	0.69568
17	2.3670	0.75825	18	2.6460	0.87288	19	2.9970	1.06313	20	3.2130	1.08108
21	3.4650	1.35475	22	4.3500	2.59386	23	5.0257	2.59386	24	5.4630	3.81691
25	5.6250	3.93913	26	5.7240	3.98729	27	6.9960	3.98729	28	7.8210	2.47352
29	8.8880	1.86969	30	9.1630	1.68423	31	10.4940	1.36583	32	11.0000	1.20598
33	11.9245	1.09784	34	14.2120	1.09784	35	14.6630	1.09635	36	16.7420	1.06558
37	18.5460	0.85667	38	20.0310	0.73039	39	27.0930	0.56324	40	29.4140	0.55740
41	39.5000	0.52645									

## TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX ; DAMPING = 0.03

FIGURE NO. 1304-B

DIRECTION 1

AT ELEVATION 873.50 FEET

SET NO. = 3

NO. OF SPECTRA = 1

## BROADENED SPECTRUM FOR NODE=1304

DEGREE OF FREEDOM =

1

NUMBER OF GRIDS = 39

DAMPING VALUE = 0.030

1	0.9000	0.24839	2	0.9450	0.25740	3	1.0061	0.25740	4	1.0620	0.30240
5	1.2870	0.33527	6	1.3590	0.38686	7	1.4091	0.38686	8	1.4490	0.42390
9	1.5030	0.43787	10	1.5761	0.43787	11	1.7280	0.56486	12	1.8000	0.56918
13	1.8720	0.64665	14	2.0492	0.64665	15	2.3670	0.73058	16	2.5020	0.74206
17	2.6460	0.82571	18	2.9970	0.99556	19	3.2130	1.01660	20	3.4650	1.24878
21	4.2500	2.28525	22	5.0297	2.28525	23	5.4630	3.30535	24	5.6250	3.39982
25	5.7240	3.41059	26	6.9960	3.41059	27	7.8210	2.05059	28	8.8880	1.49526
29	9.1630	1.36058	30	10.4940	1.09373	31	12.3200	0.75125	32	13.5363	0.70745
33	14.2120	0.70745	34	14.9812	0.64803	35	16.1480	0.64803	36	16.7420	0.63556
37	22.0000	0.51271	38	35.7066	0.42720	39	39.5000	0.42720			

## TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

SET NO. = 4

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX ; DAMPING = 0.03  
 FIGURE NO. 1305-B DIRECTION 1 AT ELEVATION 852.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1305 DEGREE OF FREEDOM = 1 NUMBER OF GRIDS = 45 DAMPING VALUE = 0.030

1	0.9000	0.24582	2	0.9450	0.25516	3	1.0051	0.25516	4	1.0620	0.29949
5	1.2870	0.32921	6	1.3590	0.38165	7	1.4105	0.38165	8	1.4490	0.41304
9	1.5030	0.42714	10	1.5759	0.42714	11	1.7280	0.54426	12	1.8000	0.55509
13	1.8720	0.62531	14	2.0580	0.62531	15	2.3670	0.69561	16	2.5133	0.69561
17	2.6460	0.77072	18	2.9970	0.92516	19	3.2130	0.94054	20	3.4650	1.12024
21	3.7530	1.55132	22	3.8790	1.59486	23	4.0860	1.88049	24	4.1490	1.93141
25	5.0197	1.93141	26	5.4630	2.77514	27	5.6250	2.86774	28	6.8750	2.86774
29	6.9960	2.83827	30	7.0290	2.81480	31	7.8210	1.64166	32	8.8380	1.19744
33	9.1630	1.18896	34	9.2730	1.18236	35	11.0000	0.74605	36	12.3200	0.59028
37	13.3017	0.56538	38	15.2570	0.56538	39	16.7420	0.55041	40	17.5120	0.52771
41	18.5460	0.47527	42	20.0310	0.47172	43	22.0000	0.45713	44	22.8690	0.41370
45	39.5000	0.36917									

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.; SET NO. = 5  
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX ; DAMPING = 0.03  
 FIGURE NO. 1306-B DIRECTION 1 AT ELEVATION 831.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1306 DEGREE OF FREEDOM = 1 NUMBER OF GRIDS = 42 DAMPING VALUE = 0.030

1	0.9000	0.24050	2	0.9450	0.25040	3	1.0037	0.25040	4	1.0620	0.29474
5	1.2870	0.32147	6	1.3590	0.37293	7	1.4125	0.37293	8	1.4490	0.39718
9	1.5030	0.41065	10	1.5762	0.41065	11	1.7280	0.51446	12	1.8000	0.53192
13	1.8720	0.59447	14	2.0784	0.59447	15	2.3670	0.64530	16	2.5381	0.64530
17	2.6460	0.69823	18	2.9970	0.82155	19	3.2130	0.82807	20	3.4650	0.94791
21	3.7530	1.25799	22	3.8790	1.26380	23	4.0860	1.43369	24	4.1490	1.46843
25	5.0678	1.46843	26	5.4630	1.93691	27	5.6250	1.98604	28	6.8750	1.98604
29	6.9960	1.94691	30	7.0290	1.92712	31	7.7892	1.08073	32	8.8880	1.08073
33	9.2730	1.01571	34	10.4940	0.64535	35	11.0000	0.55391	36	12.8806	0.52505
37	16.1480	0.52505	38	17.5120	0.47976	39	18.5460	0.39299	40	22.0000	0.35802
41	22.8690	0.33003	42	39.5000	0.29162						

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.; SET NO. = 6  
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX ; DAMPING = 0.03  
 FIGURE NO. 1307-B DIRECTION 1 AT ELEVATION 810.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1307 DEGREE OF FREEDOM = 1 NUMBER OF GRIDS = 45 DAMPING VALUE = 0.030

1	0.9000	0.23588	2	0.9450	0.24630	3	1.0021	0.24630	4	1.0620	0.29020
5	1.2870	0.31237	6	1.3590	0.36326	7	1.4490	0.38056	8	1.5030	0.39323
9	1.5731	0.39323	10	1.8720	0.56260	11	2.1729	0.56260	12	2.2500	0.57528
13	2.3670	0.59033	14	2.5485	0.59033	15	2.8170	0.67418	16	2.9970	0.71275
17	3.2295	0.71275	18	3.4650	0.76989	19	3.7530	0.95521	20	3.9544	0.95521
21	4.0860	1.00715	22	4.1490	1.02384	23	5.2891	1.02384	24	5.4630	1.09135
25	6.6770	1.09135	26	6.8750	1.08156	27	6.9960	1.05034	28	7.0290	1.02432
29	7.1280	0.92862	30	7.1638	0.92862	31	7.2720	0.93511	32	8.8880	0.93511
33	9.1630	0.85885	34	9.2730	0.82881	35	10.3343	0.55597	36	13.6950	0.55597
37	13.9370	0.55060	38	14.2120	0.54164	39	15.2570	0.44832	40	16.1480	0.44009
41	17.5120	0.38559	42	18.4767	0.33790	43	22.8690	0.33790	44	29.4140	0.24989
45	39.5000	0.22737									

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.; SET NO. = 7  
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX ; DAMPING = 0.03  
 FIGURE NO. 1308-B DIRECTION 1 AT ELEVATION 790.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1308 DEGREE OF FREEDOM = 1 NUMBER OF GRIDS = 36 DAMPING VALUE = 0.030

1	0.9000	0.23189	2	0.9450	0.24275	3	0.9990	0.24277	4	1.0620	0.28999
---	--------	---------	---	--------	---------	---	--------	---------	---	--------	---------



5	1.2870	0.30536	6	1.3590	0.35636	7	1.5030	0.37937	8	1.5694	0.37937
9	1.8720	0.53493	10	2.2500	0.54812	11	2.6460	0.55389	12	2.8170	0.61266
13	2.9970	0.63353	14	3.4964	0.63353	15	3.7530	0.72420	16	4.5870	0.72420
17	4.6171	0.71023	18	5.0710	0.71023	19	5.3557	0.64768	20	5.4630	0.64768
21	5.6250	0.72778	22	5.7240	0.76116	23	6.0357	0.76116	24	6.3990	0.82735
25	7.2720	0.89199	26	8.8880	0.89199	27	10.2144	0.55333	28	13.6950	0.55333
29	13.9370	0.53548	30	14.2120	0.51316	31	15.2130	0.41566	32	15.8166	0.35737
33	18.5460	0.35737	34	22.8690	0.29010	35	27.0930	0.21411	36	39.5000	0.19062

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.03  
FIGURE NO. 1302-B DIRECTION 2 AT ELEVATION 899.50 FEET

SET NO. = 8

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1302			DEGREE OF FREEDOM =		NUMBER OF GRIDS = 36		DAMPING VALUE = 0.030	
1	0.9000	0.18352	2	0.9450	0.18662	3	0.9990	0.18686
5	1.1250	0.23470	6	1.2262	0.23470	7	1.2870	0.25057
9	1.3590	0.30027	10	1.4773	0.30027	11	1.5030	0.30655
13	1.8000	0.42125	14	1.9530	0.45274	15	2.2500	0.50522
17	2.6460	0.73163	18	2.8170	0.83160	19	2.9970	1.00391
21	4.1700	2.14879	22	4.6500	2.99833	23	5.2345	2.99833
25	6.9960	3.68966	26	7.0290	3.66941	27	7.1280	3.56118
29	15.2130	3.12144	30	16.7420	2.74522	31	17.1600	2.58880
33	22.0000	1.33468	34	22.8690	1.19140	35	36.3000	0.63881
4	1.0620	0.22506	8	1.3230	0.28919	12	1.6650	0.33919
16	2.5020	0.61572	20	3.2130	1.10748	24	5.7240	3.68966
28	7.8210	3.12144	32	20.0310	1.50910	36	39.5000	0.61502

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.03  
FIGURE NO. 1303-B DIRECTION 2 AT ELEVATION 886.50 FEET

SET NO. = 9

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1303			DEGREE OF FREEDOM =		NUMBER OF GRIDS = 37		DAMPING VALUE = 0.030	
1	0.9000	0.18313	2	0.9450	0.18654	3	0.9990	0.18657
5	1.1250	0.23412	6	1.2267	0.23412	7	1.2870	0.24975
9	1.3590	0.29952	10	1.4781	0.29952	11	1.5030	0.30564
13	1.8000	0.41918	14	1.9530	0.44900	15	2.2500	0.50071
17	2.6460	0.71974	18	2.9970	0.98251	19	3.2130	1.08071
21	4.1700	2.07987	22	4.7000	2.92933	23	5.2041	2.92933
25	6.9960	3.68184	26	7.0290	3.65830	27	7.1280	3.55171
29	15.2130	2.97592	30	16.7420	2.60854	31	17.1600	2.46467
33	22.0000	1.25431	34	22.8690	1.12607	35	29.4140	0.79442
37	39.5000	0.58753						
4	1.0620	0.22424	8	1.3230	0.28829	12	1.6650	0.33739
16	2.5020	0.60438	20	3.4650	1.36888	24	5.7240	3.68184
28	7.8210	2.97592	32	20.0310	1.44919	36	36.3000	0.59443

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.03  
FIGURE NO. 1304-B DIRECTION 2 AT ELEVATION 873.50 FEET

SET NO. = 10

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1304			DEGREE OF FREEDOM =		NUMBER OF GRIDS = 36		DAMPING VALUE = 0.030	
1	0.9000	0.18373	2	0.9450	0.18751	3	0.9990	0.18751
5	1.1250	0.23529	6	1.2267	0.23529	7	1.2870	0.25104
9	1.3590	0.30075	10	1.4781	0.30075	11	1.5030	0.30686
13	1.8000	0.42091	14	2.2500	0.50341	15	2.5020	0.60757
17	2.9970	0.98784	18	3.2130	1.08782	19	3.4650	1.37838
21	4.5000	2.98965	22	5.1987	2.98965	23	5.7240	3.76110
25	7.0290	3.73424	26	7.1280	3.62460	27	7.8210	2.88672
29	16.7420	2.54114	30	17.1600	2.40541	31	20.0310	1.44141
33	27.0930	0.83259	34	29.4140	0.72990	35	36.3000	0.60636
4	1.0620	0.22481	8	1.3230	0.28944	12	1.6650	0.33872
16	2.6460	0.72354	20	4.1700	2.10449	24	6.9960	3.76110
28	15.2130	2.88672	32	22.0000	1.21587	36	39.5000	0.59999

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.03

SET NO. = 11



FIGURE NO. 1305-B

DIRECTION 2

AT ELEVATION 852.50 FEET

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1305			DEGREE OF FREEDOM = 2			NUMBER OF GRIDS = 36			DAMPING VALUE = 0.030		
1	0.9000	0.18375	2	0.9450	0.18722	3	0.9990	0.18745	4	1.0620	0.22623
5	1.1250	0.23525	6	1.2259	0.23525	7	1.2870	0.25107	8	1.3230	0.28944
9	1.3590	0.30100	10	1.4793	0.30100	11	1.5030	0.30680	12	1.6650	0.33897
13	1.8000	0.42073	14	1.9530	0.45099	15	2.2500	0.50330	16	2.5020	0.60796
17	2.6460	0.72299	18	2.9970	0.98980	19	3.2130	1.08966	20	3.4650	1.38328
21	4.1700	2.10297	22	4.6500	3.00607	23	5.2216	3.00607	24	5.7240	3.71273
25	6.9960	3.71273	26	7.0290	3.68994	27	7.1280	3.57885	28	7.8210	2.71293
29	15.2130	2.70737	30	16.7420	2.33549	31	17.1600	2.20802	32	20.0310	1.30812
33	22.0000	1.09306	34	27.0930	0.70762	35	29.4140	0.62507	36	39.5000	0.59348

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.03

SET NO. = 12

FIGURE NO. 1306-B

DIRECTION 2

AT ELEVATION 831.50 FEET

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1306			DEGREE OF FREEDOM = 2			NUMBER OF GRIDS = 43			DAMPING VALUE = 0.030		
1	0.9000	0.18290	2	0.9450	0.18624	3	0.9990	0.18692	4	1.0620	0.22470
5	1.1250	0.23381	6	1.2276	0.23381	7	1.2870	0.24964	8	1.3230	0.28784
9	1.3590	0.30030	10	1.4840	0.30030	11	1.5030	0.30474	12	1.6650	0.33744
13	1.8000	0.41843	14	1.9530	0.44924	15	2.3670	0.53970	16	2.6460	0.71886
17	2.8170	0.81671	18	2.9970	0.98731	19	3.2130	1.08645	20	3.4650	1.37786
21	4.1700	2.09898	22	4.8500	2.94964	23	5.2524	2.94964	24	5.7240	3.40000
25	6.9960	3.40000	26	7.0290	3.40000	27	7.1280	3.40000	28	7.8016	2.63660
29	8.8880	2.63660	30	9.1630	2.58977	31	9.2730	2.54605	32	9.5591	2.35610
33	12.3200	2.35610	34	12.4908	2.30429	35	15.2130	2.30429	36	16.7420	2.00090
37	17.1600	1.90444	38	18.5460	1.48974	39	20.0310	1.07504	40	22.0000	0.89484
41	22.8690	0.79241	42	27.0930	0.60479	43	39.5000	0.57365			

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.03

SET NO. = 13

FIGURE NO. 1307-B

DIRECTION 2

AT ELEVATION 810.50 FEET

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1307			DEGREE OF FREEDOM = 2			NUMBER OF GRIDS = 41			DAMPING VALUE = 0.030		
1	0.9000	0.18168	2	0.9450	0.18393	3	0.9990	0.18502	4	1.0620	0.22147
5	1.1250	0.23131	6	1.2281	0.23131	7	1.2870	0.24582	8	1.3230	0.28452
9	1.3590	0.29679	10	1.4893	0.29679	11	1.5030	0.29987	12	1.6650	0.33152
13	1.8000	0.41088	14	1.9530	0.44242	15	2.3670	0.52796	16	2.5020	0.58462
17	2.6460	0.69880	18	2.8170	0.78920	19	2.9970	0.95280	20	3.2130	1.04261
21	3.4650	1.31889	22	4.1700	1.99552	23	5.0000	2.79735	24	5.2710	2.72735
25	5.7240	3.09000	26	6.9960	3.09000	27	7.1280	3.09000	28	7.7466	2.58514
29	8.8880	2.58514	30	9.1630	2.54202	31	9.2730	2.49799	32	9.9722	1.98138
33	12.3200	1.98138	34	13.2726	1.73633	35	15.2130	1.73633	36	16.1480	1.51201
37	16.7420	1.49808	38	17.1600	1.42684	39	20.0310	0.78001	40	22.0000	0.60813
41	39.5000	0.54653									

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.03

SET NO. = 14

FIGURE NO. 1308-B

DIRECTION 2

AT ELEVATION 790.50 FEET

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1308			DEGREE OF FREEDOM = 2			NUMBER OF GRIDS = 43			DAMPING VALUE = 0.030		
1	0.9000	0.17730	2	0.9450	0.17971	3	0.9990	0.18054	4	1.0620	0.21582
5	1.1250	0.22459	6	1.2274	0.22459	7	1.2870	0.23853	8	1.3230	0.27630
9	1.3590	0.28994	10	1.4984	0.28994	11	1.5030	0.29090	12	1.6650	0.32024
13	1.8000	0.39964	14	2.3670	0.49618	15	2.5020	0.54395	16	2.6460	0.65517
17	2.8170	0.73303	18	2.9970	0.87737	19	3.2130	0.94869	20	3.4650	1.18169
21	4.1700	1.78091	22	4.7000	2.35836	23	5.2027	2.35836	24	5.6250	2.82905

25	5.7240	3.00943	26	6.9960	3.00943	27	7.0290	3.00033	28	7.1280	2.92210
29	7.8210	2.27565	30	8.8880	2.26343	31	9.1630	2.23415	32	9.2730	2.21221
33	10.2019	1.62232	34	12.3200	1.62232	35	13.3269	1.40828	36	14.2120	1.40828
37	16.0390	1.04413	38	16.7420	.4413	39	17.1600	1.01143	40	20.0310	0.55239
41	22.0000	0.54342	42	29.4140	0.48362	43	39.5000	0.46994			

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.03

SET NO. = 15

FIGURE NO. 1302-B DIRECTION 3 AT ELEVATION 899.50 FEET

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1302						DEGREE OF FREEDOM = 3		NUMBER OF GRIDS = 45		DAMPING VALUE = 0.030	
1	0.9000	0.24905	2	0.9450	0.25705	3	1.0029	0.25705	4	1.0620	0.30840
5	1.1250	0.31975	6	1.2870	0.34038	7	1.3590	0.40141	8	1.4259	0.40141
9	1.4490	0.42672	10	1.5030	0.45031	11	1.5705	0.45031	12	1.6650	0.51389
13	1.7280	0.61843	14	1.8077	0.61843	15	1.8720	0.68310	16	2.0278	0.68310
17	2.0430	0.69128	18	2.3670	0.78902	19	2.6460	1.01337	20	2.8170	1.02869
21	2.9970	1.25658	22	3.2130	1.46022	23	3.4650	1.65389	24	4.1700	2.43196
25	5.1116	2.43196	26	5.4630	3.29965	27	5.6250	3.94549	28	6.8750	3.94549
29	6.9960	3.93156	30	7.0290	3.90417	31	7.0680	3.76833	32	7.8210	3.76833
33	8.8880	2.71138	34	9.1630	2.37060	35	11.0000	1.41263	36	12.3200	0.93934
37	13.2285	0.92121	38	16.1480	0.92121	39	16.7699	0.86084	40	17.5120	0.86084
41	18.3099	0.75610	42	22.8690	0.75610	43	26.8490	0.56059	44	29.4140	0.56059
45	39.5000	0.52332									

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.03

SET NO. = 16

FIGURE NO. 1303-B DIRECTION 3 AT ELEVATION 886.50 FEET

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1303						DEGREE OF FREEDOM = 3		NUMBER OF GRIDS = 46		DAMPING VALUE = 0.030	
1	0.9000	0.24706	2	0.9450	0.25569	3	1.0027	0.25569	4	1.0620	0.30652
5	1.2870	0.33700	6	1.3590	0.39704	7	1.4254	0.39704	8	1.4490	0.42118
9	1.5030	0.44430	10	1.5712	0.44430	11	1.6650	0.50625	12	1.7280	0.60338
13	1.8035	0.60338	14	1.8720	0.66975	15	2.0308	0.66975	16	2.0430	0.67597
17	2.3670	0.76547	18	2.6460	0.96735	19	2.8170	0.98221	20	2.9970	1.19494
21	3.2130	1.38267	22	3.4650	1.54920	23	4.0500	2.24250	24	5.0907	2.24250
25	5.4630	3.05644	26	5.6250	3.64230	27	6.8750	3.64230	28	6.9960	3.62789
29	7.0290	3.59861	30	7.0666	3.47318	31	7.8210	3.47318	32	8.8880	2.46690
33	9.2730	2.02483	34	12.3200	0.84489	35	13.6950	0.78851	36	13.9370	0.77628
37	14.0392	0.76756	38	16.1480	0.76756	39	16.2531	0.75620	40	17.5120	0.75620
41	18.5460	0.65284	42	18.9405	0.64809	43	22.8690	0.64809	44	26.9741	0.50077
45	29.4140	0.50077	46	39.5000	0.46410						

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.03

SET NO. = 17

FIGURE NO. 1304-B DIRECTION 3 AT ELEVATION 873.50 FEET

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1304						DEGREE OF FREEDOM = 3		NUMBER OF GRIDS = 44		DAMPING VALUE = 0.030	
1	0.9000	0.24518	2	0.9450	0.25445	3	1.0025	0.25445	4	1.0620	0.30476
5	1.2870	0.33379	6	1.3590	0.39285	7	1.4247	0.39285	8	1.4490	0.41587
9	1.5030	0.43852	10	1.5718	0.43852	11	1.6650	0.49892	12	1.7280	0.58868
13	1.8000	0.58974	14	1.8720	0.65687	15	2.0343	0.65687	16	2.0430	0.66107
17	2.3670	0.74257	18	2.6460	0.92246	19	2.8170	0.93705	20	2.9970	1.13487
21	3.2130	1.30698	22	3.4650	1.44704	23	3.9000	2.05661	24	5.0879	2.05661
25	5.4630	2.82088	26	5.6250	3.34850	27	6.8750	3.34850	28	6.9960	3.33414
29	7.0290	3.30284	30	7.0642	3.19050	31	7.8210	3.19050	32	8.8880	2.24075
33	9.2730	1.83199	34	10.4940	1.34593	35	12.3200	0.76192	36	14.1035	0.66646
37	17.5120	0.66646	38	18.5460	0.58885	39	20.0310	0.56868	40	20.6903	0.54689
41	22.8690	0.54689	42	27.0930	0.44830	43	29.4140	0.44499	44	39.5000	0.41847

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.03  
FIGURE NO. 1305-B DIRECTION 3 AT ELEVATION 852.50 FEET

SET NO. = 18

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1305			DEGREE OF FREEDOM = 3		NUMBER OF GRIDS = 47		DAMPING VALUE = 0.030	
1	0.9000	0.24293	2	0.9450	0.25283	3	1.0022	0.25283
5	1.2870	0.32866	6	1.3590	0.38684	7	1.4245	0.38684
9	1.5030	0.42842	10	1.5719	0.42842	11	1.6650	0.48734
13	1.8000	0.57362	14	1.8720	0.63517	15	2.0378	0.63517
17	2.5020	0.75006	18	2.6460	0.85153	19	2.8170	0.86532
21	3.2130	1.18550	22	3.4650	1.28603	23	3.9000	1.77612
25	5.6250	2.79975	26	6.8750	2.79975	27	6.9960	2.79975
29	7.0636	2.74941	30	7.8210	2.74941	31	8.8880	1.89852
33	10.4940	1.10783	34	11.0000	0.91800	35	12.0067	0.68910
37	14.2120	0.66518	38	14.6630	0.59801	39	15.2570	0.59039
41	16.7420	0.56383	42	17.1600	0.56208	43	20.0310	0.50512
45	29.4140	0.38546	46	36.3000	0.37941	47	39.5000	0.37547

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.03  
FIGURE NO. 1306-B DIRECTION 3 AT ELEVATION 831.50 FEET

SET NO. = 19

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1306			DEGREE OF FREEDOM = 3		NUMBER OF GRIDS = 42		DAMPING VALUE = 0.030	
1	0.9000	0.24031	2	0.9450	0.25072	3	1.0017	0.25072
5	1.2870	0.32199	6	1.3590	0.37984	7	1.4249	0.37984
9	1.5030	0.41677	10	1.5689	0.41677	11	1.7280	0.53699
13	2.0486	0.60901	14	2.3670	0.66315	15	2.6460	0.76936
17	2.9970	0.92463	18	3.2130	1.04383	19	3.4650	1.10034
21	5.0040	1.46554	22	5.6250	2.25280	23	6.8750	2.25280
25	7.0290	2.23574	26	7.0778	2.13144	27	7.8210	2.13144
29	9.1630	1.48550	30	10.4940	1.01867	31	11.0000	0.82848
33	13.9370	0.64544	34	14.2120	0.63166	35	14.6630	0.58423
37	16.7420	0.55251	38	17.1600	0.54122	39	21.6232	0.37508
41	36.3000	0.32316	42	39.5000	0.32176	40	22.8690	0.37508

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.03  
FIGURE NO. 1307-B DIRECTION 3 AT ELEVATION 810.50 FEET

SET NO. = 20

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1307			DEGREE OF FREEDOM = 3		NUMBER OF GRIDS = 42		DAMPING VALUE = 0.030	
1	0.9000	0.23582	2	0.9450	0.24661	3	1.0005	0.24661
5	1.2870	0.31404	6	1.3590	0.36934	7	1.4261	0.36934
9	1.5030	0.39894	10	1.5689	0.39894	11	1.7280	0.49953
13	2.0962	0.57420	14	2.3670	0.60448	15	2.6460	0.66257
17	3.4650	0.86237	18	3.9000	1.07249	19	5.0040	1.07249
21	5.6250	1.39641	22	6.8750	1.39641	23	6.9960	1.36962
25	7.1585	1.33589	26	7.2720	1.35617	27	8.8880	1.35617
29	11.0000	0.62755	30	12.2020	0.52231	31	13.6950	0.52231
33	14.6392	0.41098	34	16.1480	0.41098	35	16.7420	0.40698
37	18.2734	0.39330	38	18.7110	0.39697	39	22.8690	0.39697
41	35.2263	0.24160	42	39.5000	0.24160	40	27.0930	0.27964

TUSI-REFINED RESPONSE SPECTRA FOR AUXILIARY BLDG.;  
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.03  
FIGURE NO. 1308-B DIRECTION 3 AT ELEVATION 790.50 FEET

SET NO. = 21

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1308			DEGREE OF FREEDOM =		NUMBER OF GRIDS = 37		DAMPING VALUE = 0.030				
1	0.9000	0.23193	2	0.9450	0.24307	3	0.9992	0.24307	4	1.0620	0.28994
5	1.2870	0.30536	6	1.3590	0.35886	7	1.4490	0.36673	8	1.5030	0.38113
9	1.5663	0.38113	10	1.8720	0.53978	11	2.2035	0.53978	12	2.2500	0.55254
13	2.6460	0.56622	14	2.8170	0.62594	15	2.9970	0.66561	16	3.2130	0.67312
17	3.5489	0.67312	18	3.7530	0.74399	19	5.7240	0.76925	20	5.9943	0.76925
21	6.3990	0.91310	22	7.2720	1.12039	23	8.8880	1.12039	24	9.1630	1.06901
25	10.4940	0.55985	26	11.0000	0.48090	27	12.3200	0.43962	28	12.6979	0.42555
29	16.1480	0.42555	30	17.5120	0.41567	31	17.7233	0.40797	32	20.0310	0.40797
33	22.0000	0.32364	34	22.8690	0.32200	35	27.0930	0.22476	36	29.4140	0.22320
37	39.5000	0.20619									