

CYGNA		AP
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DATE LOGGED:	6/7/84	
LOG NO. :	116	(2/1)
FILE:	11.1 Tech. Files	
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116
317

FEB-4R

REFINED RESPONSE SPECTRA FOR

ELECTRICAL BUILDING

COMANCHE PEAK STEAM ELECTRIC STATION NUCLEAR POWER PLANT

B411060465 B40620
PDR ADOCK 05000445
A PDR

GIBBS & HILL

RECEIVED NOVEMBER '82

JUN 7 1984

CYGNA - SAN FRANCISCO

CPSES

REFINED RESPONSE SPECTRA FOR ELECTRICAL BUILDING

Presented herewith are the refined floor response spectra for the electrical 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.

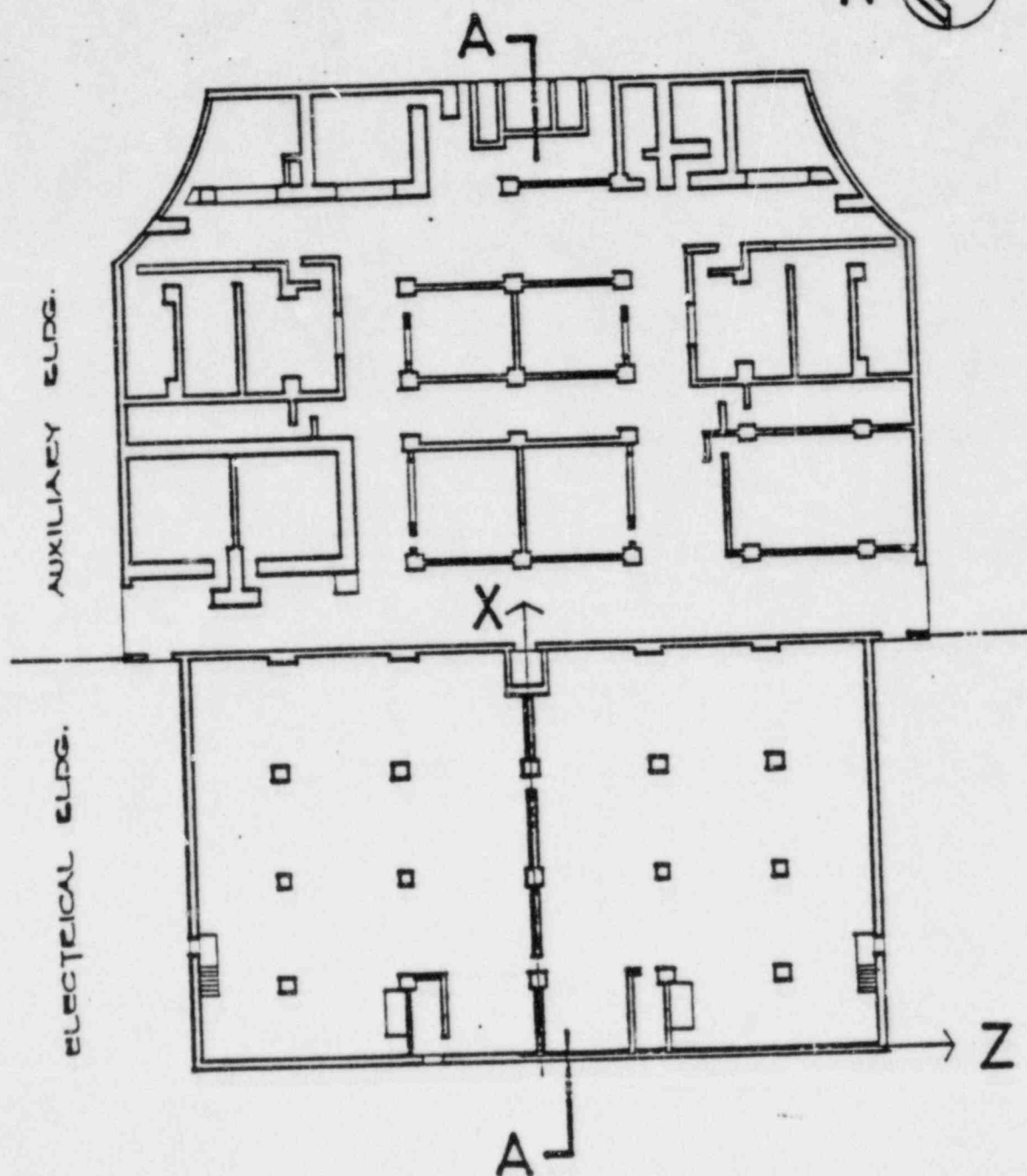
The results are presented in figures 1261-B through 1270-B and 1241-B through 1250-B which are summarized in Table nos. 2 and 3. Also the digitized values of the same spectra are included at the end of the book.

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



NOTE: ORIGIN OF COORDINATES
IS AT ELEVATION 0.00'

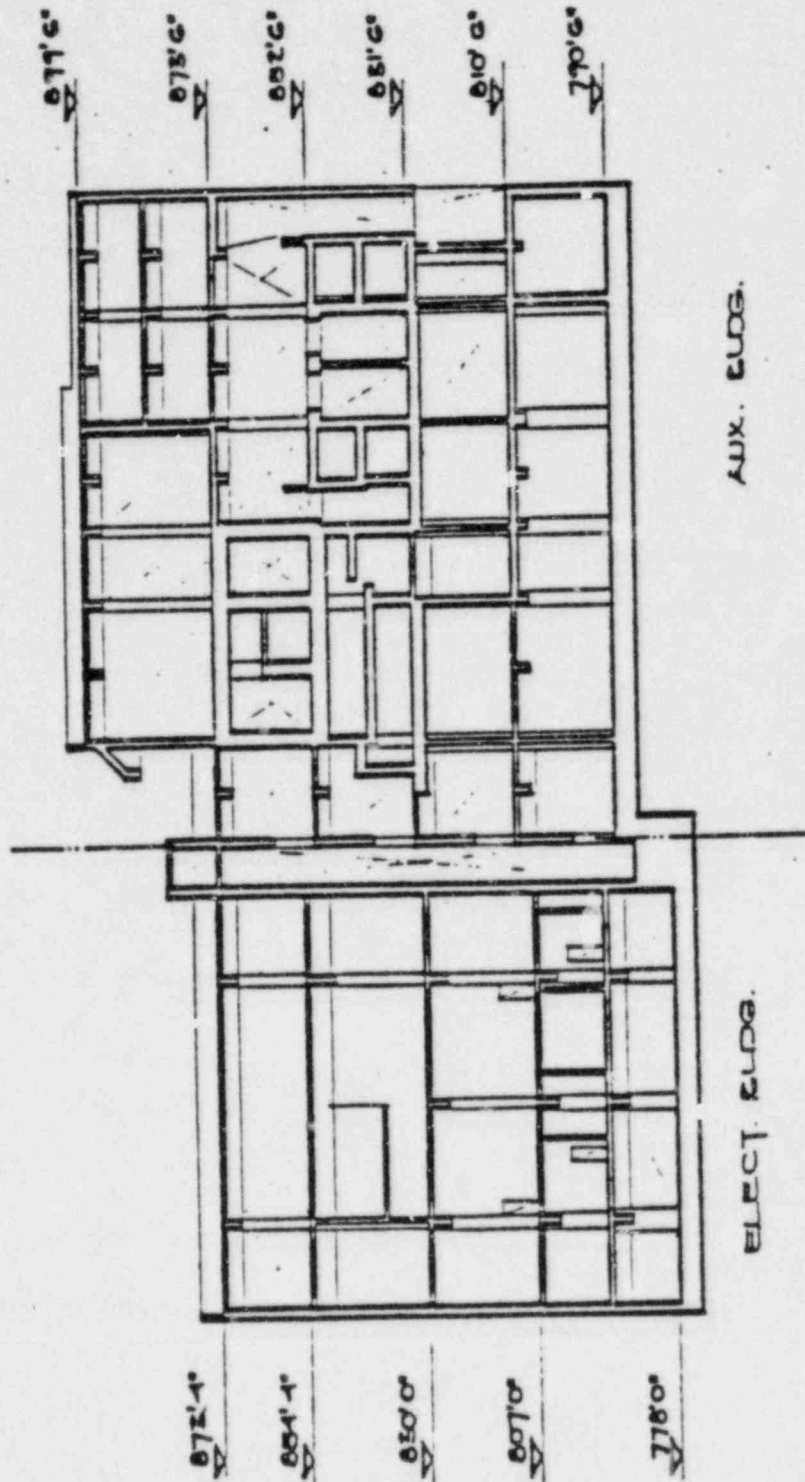
TUSI
ELECT. & AUXILIARY BUILDING

Gibbs E. Hill, Inc.
ENGINEERS, ARCHITECTS, CONTRACTORS
NEW YORK

SCALE - 1" = 40'

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[illegible]

[illegible]

TUSI
ELECT. & AUXILIARY BUILDING

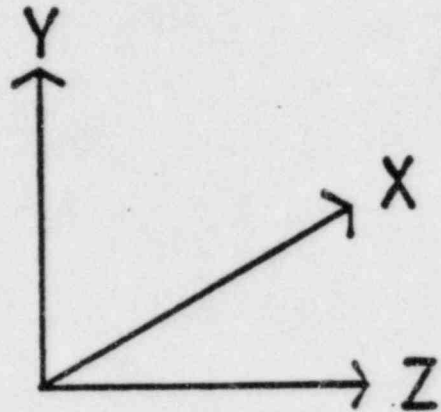
Gibbs & Hill, Inc.

BUSINESS, PEASANT, CONSTRUCTORS
NEW YORK

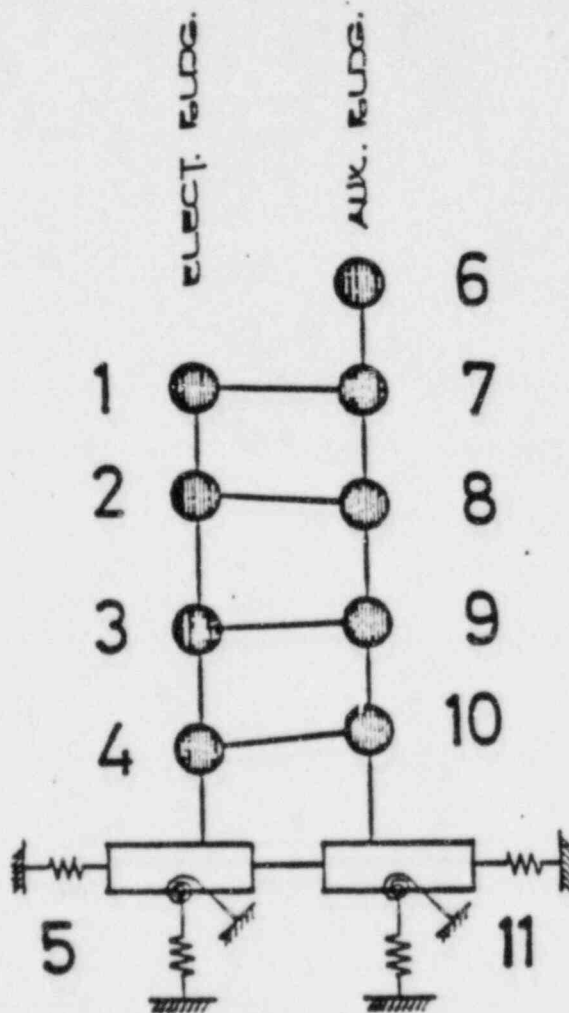
NO NO 2326-A

SCALE - 1" = 40'

SKETCH 2



COORDINATE SYSTEM



DYNAMIC MODEL

ELECT. & TUSI
AUXILIARY BUILDING

Gibbs & Hill, Inc.

ENGINEER: J. P. WEAVER, CIVIL ENGINEER

NEW YORK

FOR NO 2327-A

SCALE =

SKETCH 3

[illegible]

SUMMARY OF REFINED FLOOR RESPONSE SPECTRA

FIGURE NO.	FLOOR ELEVATION	DAMPING %	EARTHQUAKE	TYPE OF MOTION
1261-B	873.33 FT.	1	1/2 SSE	TRANSL. & ROT.
1262-B	854.33 FT.	1	1/2 SSE	TRANSL. & ROT.
1263-B	830.00 FT.	1	1/2 SSE	TRANSL. & ROT.
1264-B	807.00 FT.	1	1/2 SSE	TRANSL. & ROT.
1265-B	778.00 FT.	1	1/2 SSE	TRANSL. & ROT.
1266-B	873.33 FT.	2	1/2 SSE	TRANSL. & ROT.
1267-B	854.33 FT.	2	1/2 SSE	TRANSL. & ROT.
1268-B	830.00 FT.	2	1/2 SSE	TRANSL. & ROT.
1269-B	807.00 FT.	2	1/2 SSE	TRANSL. & ROT.
1270-B	778.00 FT.	2	1/2 SSE	TRANSL. & ROT.

TUSI
ELECTRICAL BUILDING

Gibbs & Hill, Inc.

SEISMIC, STRUCTURAL, CONTRACTORS

NEW YORK

REV. NO. 2523

SCALE -

TABLE 2

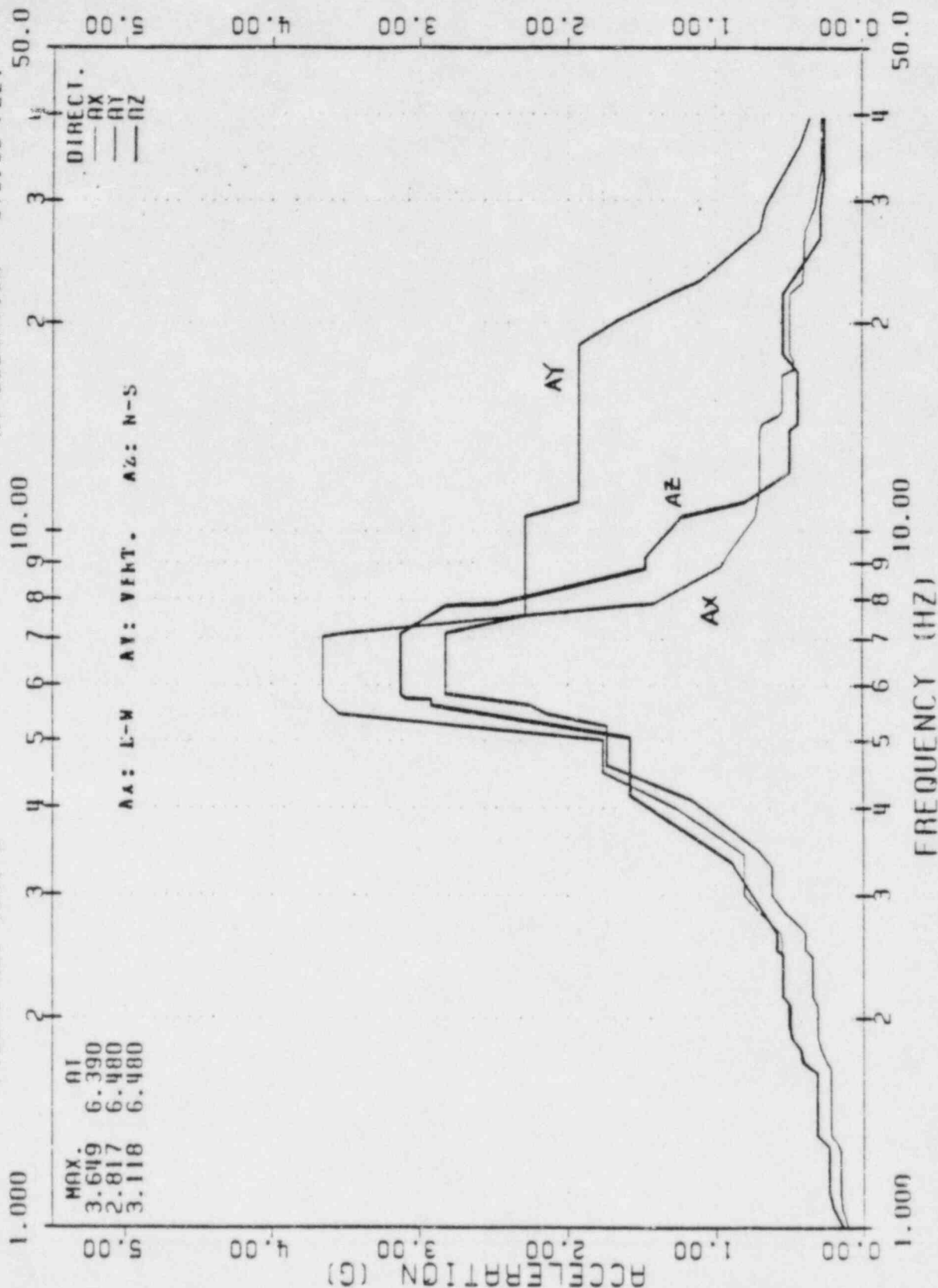
TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

FLOOR RESPONSE SPECTRA FOR 1/2 SSE;

FIGURE NO. 1261-B

DAMPING = 0.01

AT ELEVATION 873.33 FEET



TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

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JOB NO. 2323

FIGURE-1261-B

11/24/60 W.T.

DATE PLTD. CHNG.

ARCH. STRECH. MECH. ELEC. MEAS. BLDG. DIV. P.E.

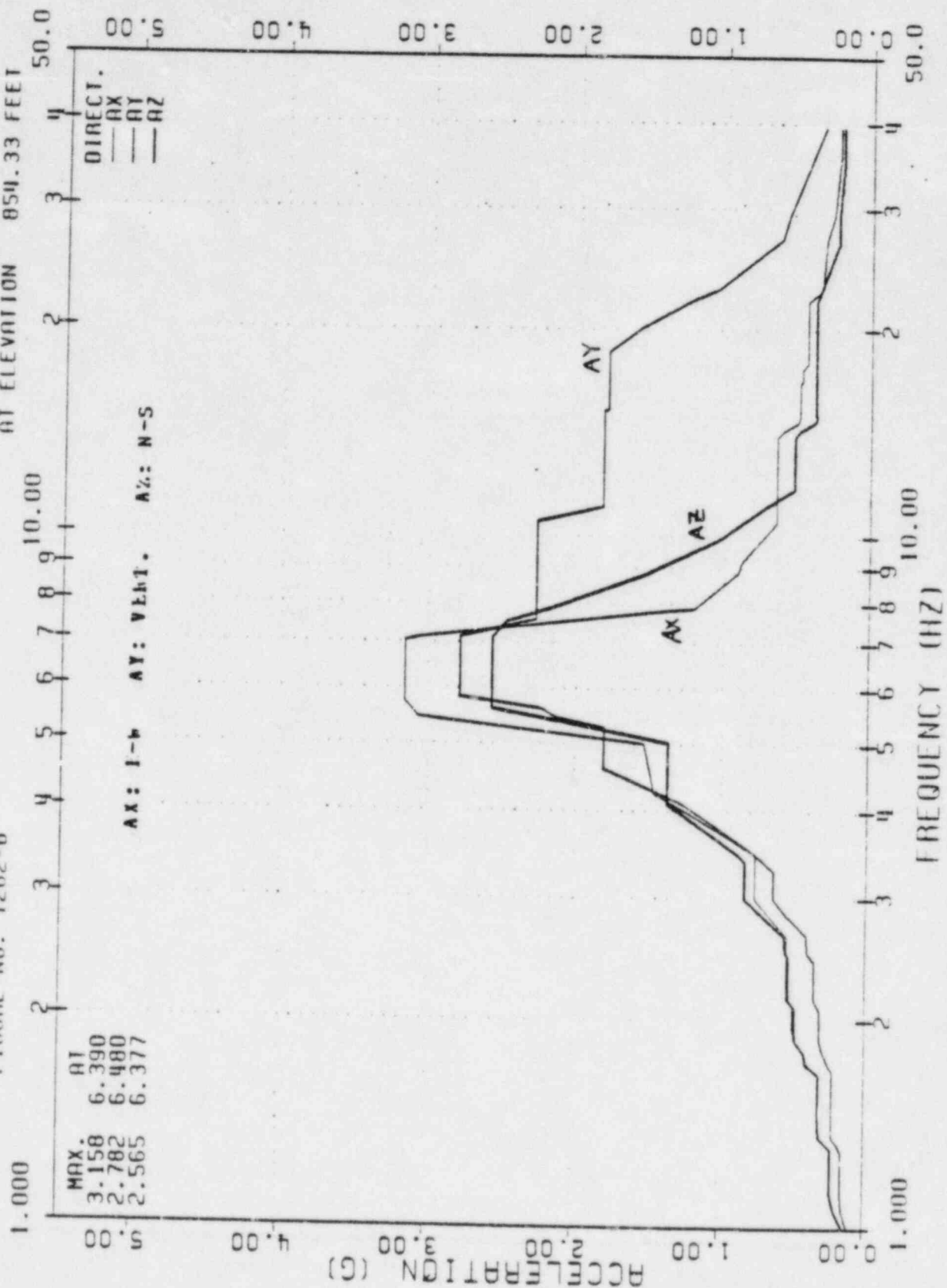
APPROVED: Y

ISSUED FOR

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE;
 FIGURE NO. 1262-B

DAMPING = 0.01

AT ELEVATION 854.33 FEET



TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

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ENGINEERS, DESIGNERS, CONSTRUCTORS

JED NO. 2323

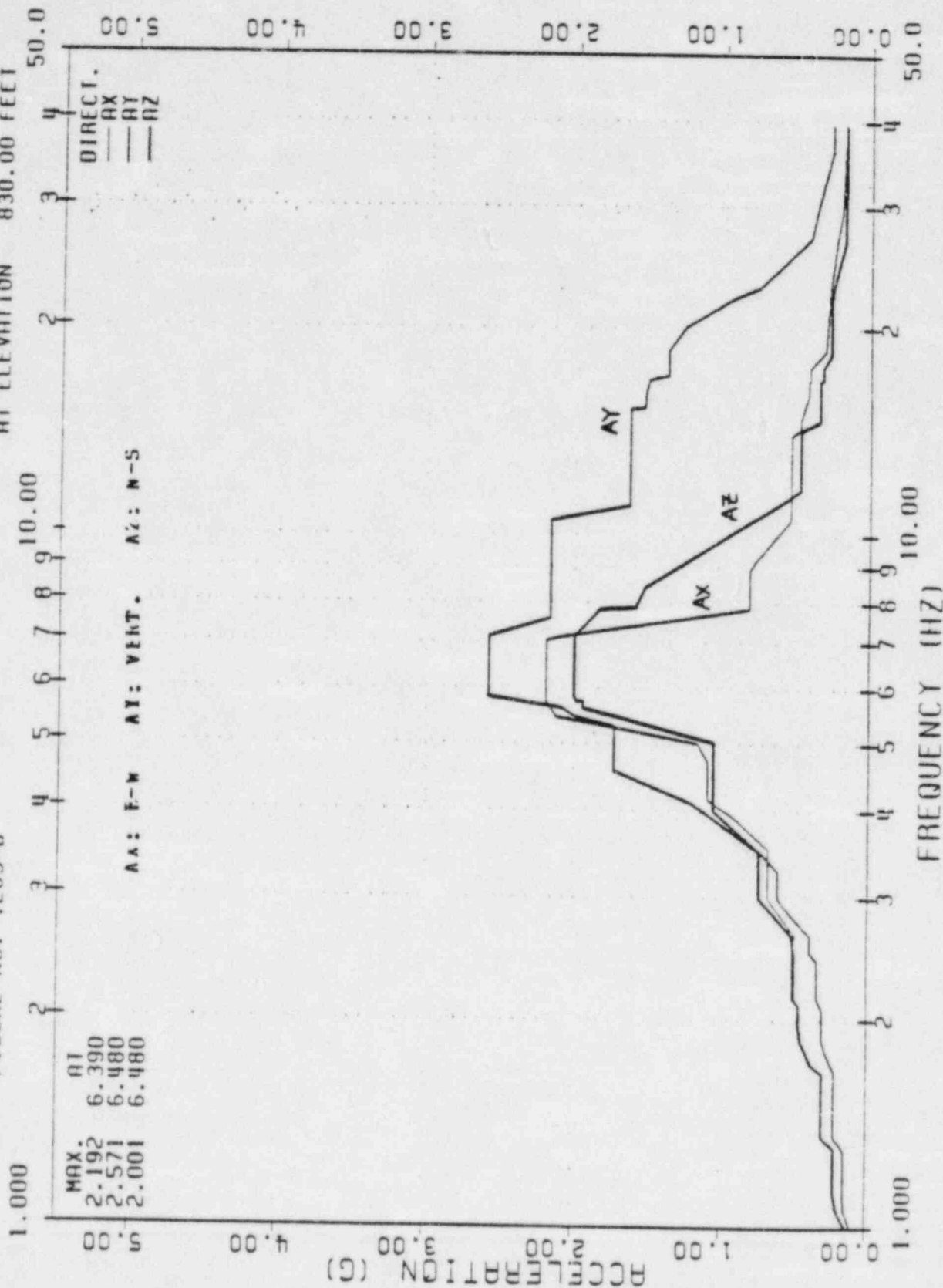
FIGURE-1262-B

11/24/60

DATE PLTD. CHKD. SOC. 11/24/60

ISSUED FOR

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE;
 DAMPING = 0.01
 AT ELEVATION 830.00 FEET
 FIGURE NO. 1263-B



11/27/80 RDP ET

ISSUE NO. DATE PLT. CH-10-500

ENCL. STRENGTH, ELEC. DES. BLDG. ENY. P.E.

ISSUED FOR

TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

JOB NO. 2523

FIGURE-1263-B

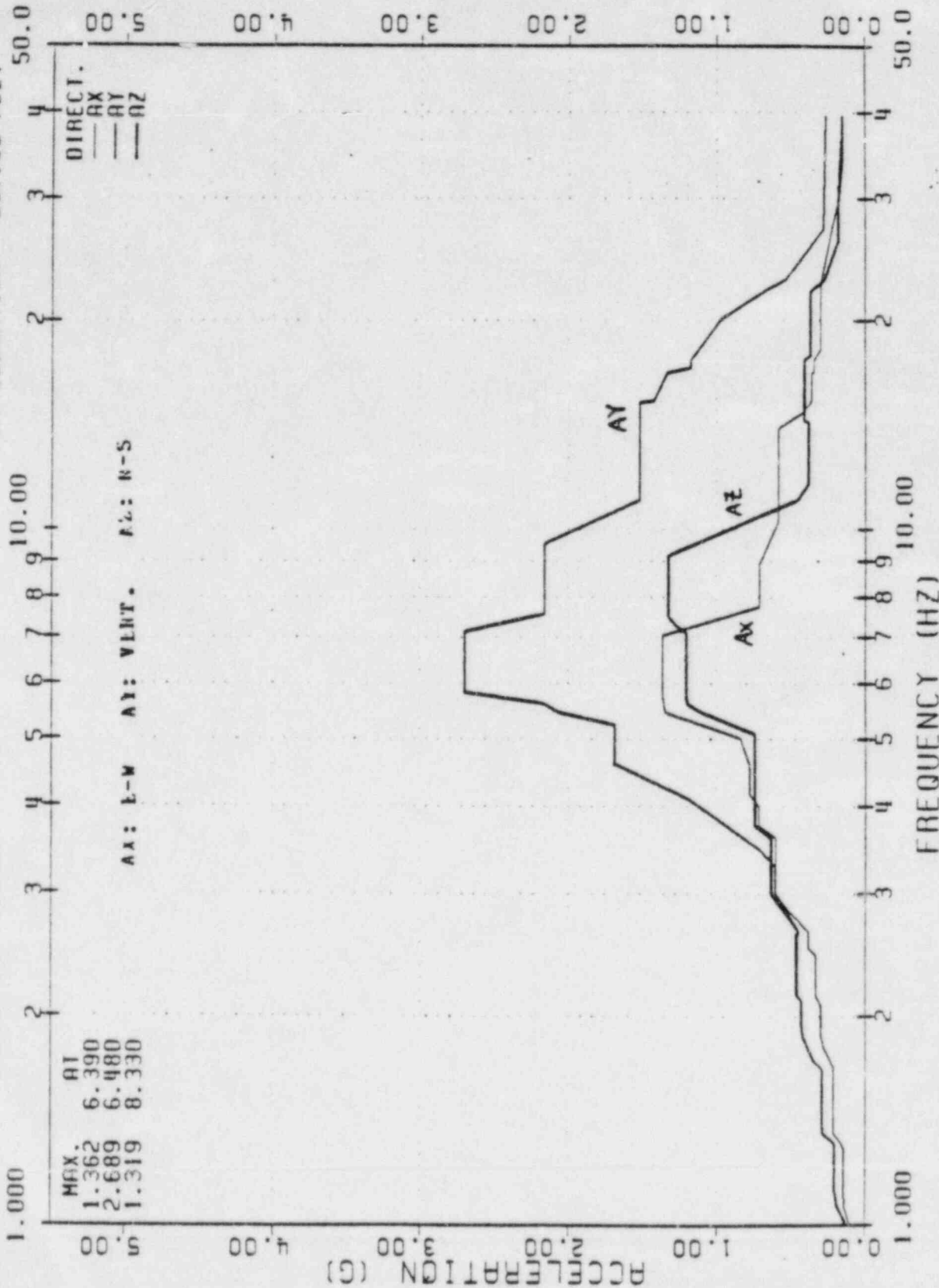
TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

FLOOR RESPONSE SPECTRA FOR 1/2 SSE;

FIGURE NO. 1264-B

DAMPING = 0.01

AT ELEVATION 807.00 FEET



TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

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JOB NO. 2328

FIGURE-1264-B

11/24/64 ROP 64

ISSUED FOR DATE PLTD. CHNG. 900

ARCH. STRUCT. MECH. ELEC. MEAS. BLDG. CIV. P.E.

ISSUED FOR

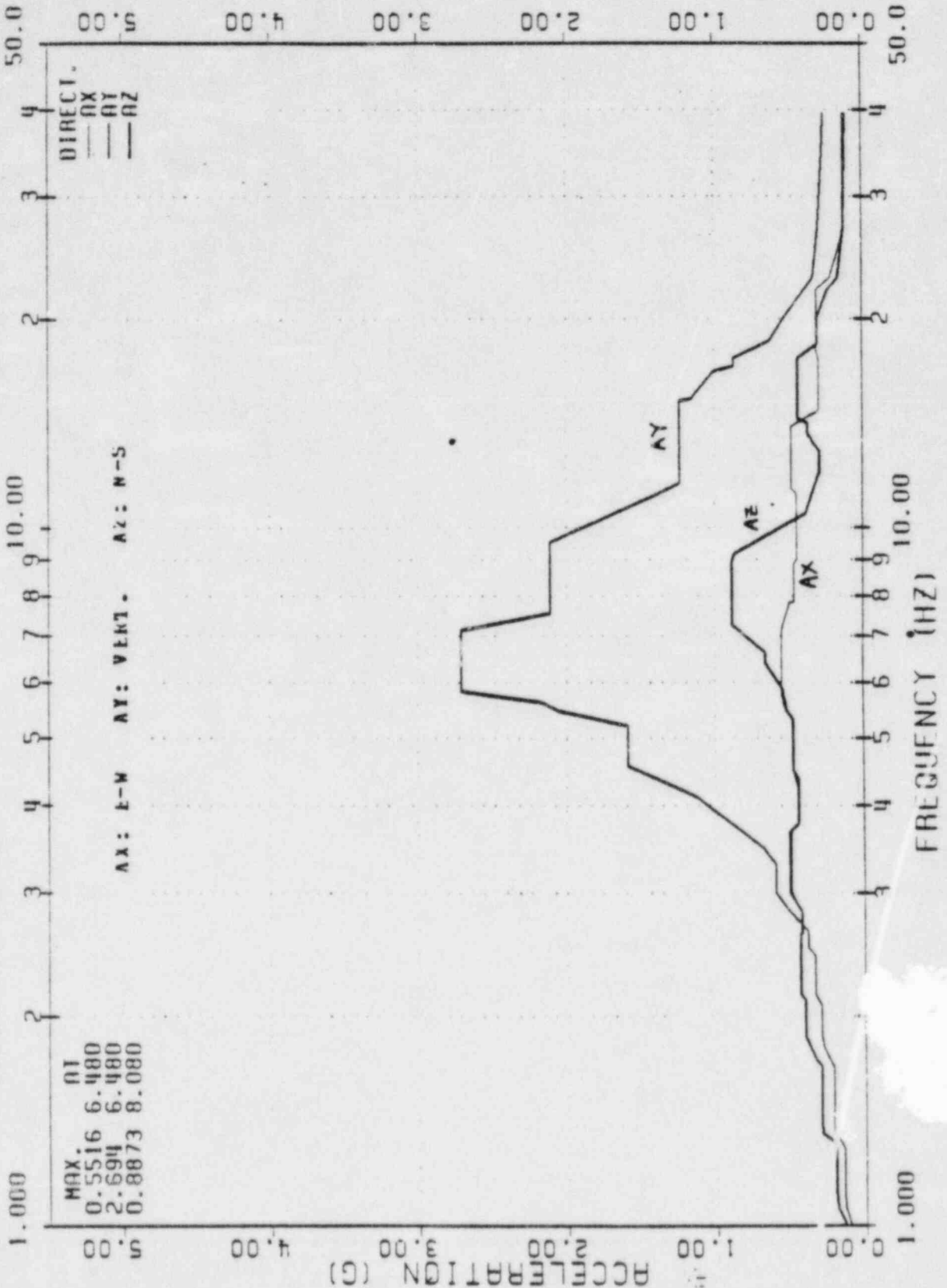
TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

FLOOR RESPONSE SPECTRA FOR 1/2 SSE;

FIGURE NO. 1265-B

DAMPING = 0.01

AT ELEVATION 778.00 FEET



TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.
ENGINEERS, DESIGNERS, CONSTRUCTORS

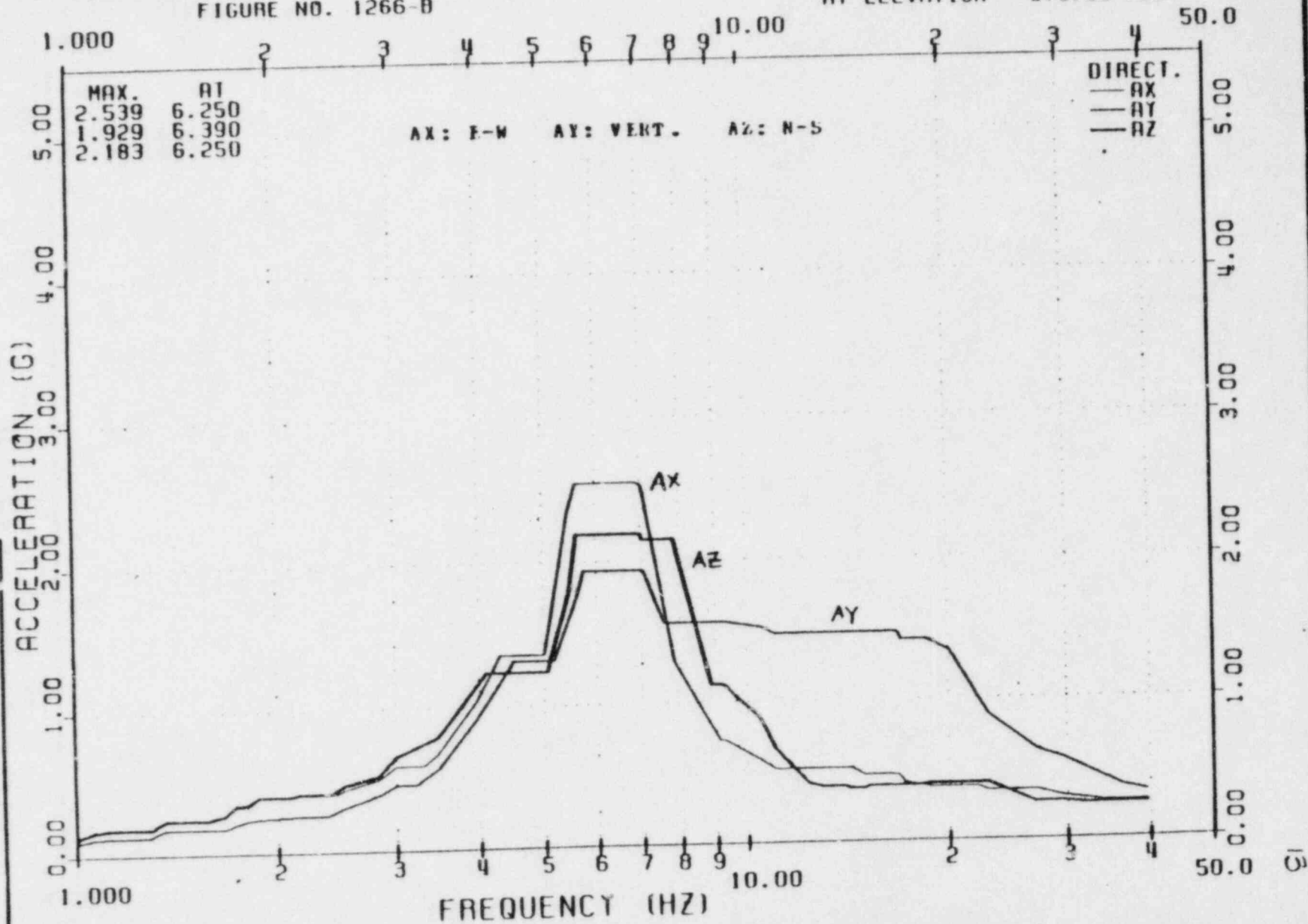
FIGURE-1265-B

JOB NO. 2323

ISSUED FOR

DATE PLTD. CHKD. 1000. STRUCT. ANAL. SEC. DES. & BLDG. DIV. P.A. APPROVAL

DAMPING = 0.02
AT ELEVATION 873.33 FEET



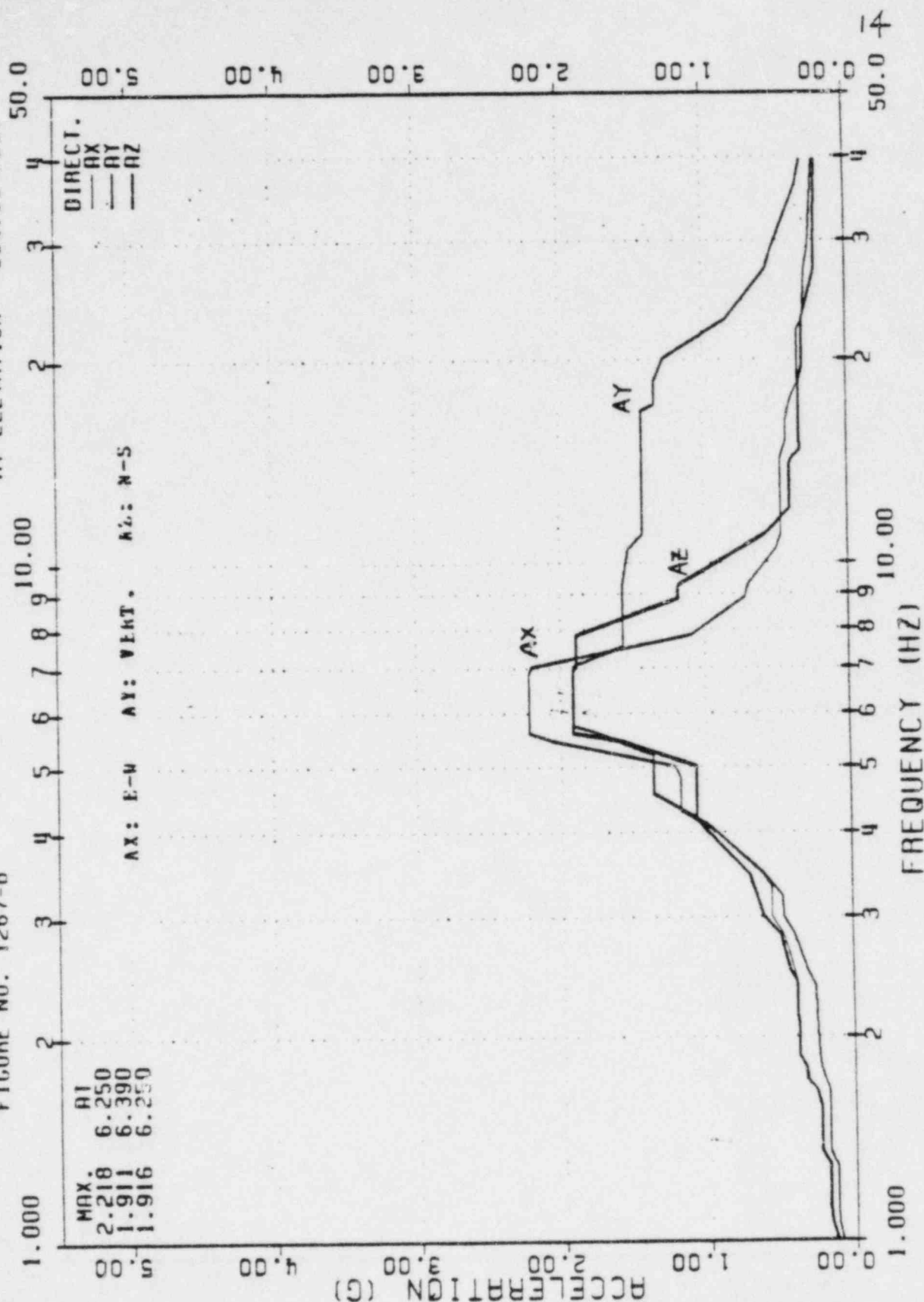
TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

FLOOR RESPONSE SPECTRA FOR 1/2 SSE:

FIGURE NO. 1267-B

 $\text{DAMPING} = 0.02$

AI ELEVATION 854.33 FEET



TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS
222 YORK

JOB NO. 2323

FIGURE-1267-B

1990E

DATE PLTD-EMBO

960

AMER. STREET TRAM. CO., INC., 110 N. 1ST ST., PHILADELPHIA, PA.

ISSUED FOR

177-02

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

FLOOR RESPONSE SPECTRA FOR 1/2 SSE;

FIGURE NO. 1268-B

DAMPING = 0.02

AT ELEVATION 830.00 FEET

50.0

4.00

3.00

2.00

1.00

0.00

DIRECT.

AX

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2

1

0

AT

6.250

6.390

6.250

MAX.

1.570

1.770

1.440

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

ACCELERATION (G)

FREQUENCY (HZ)

10.00

1.000

TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

JOB NO. 2323

FIGURE-1268-

DATE PLTD. CHAS. L. CA

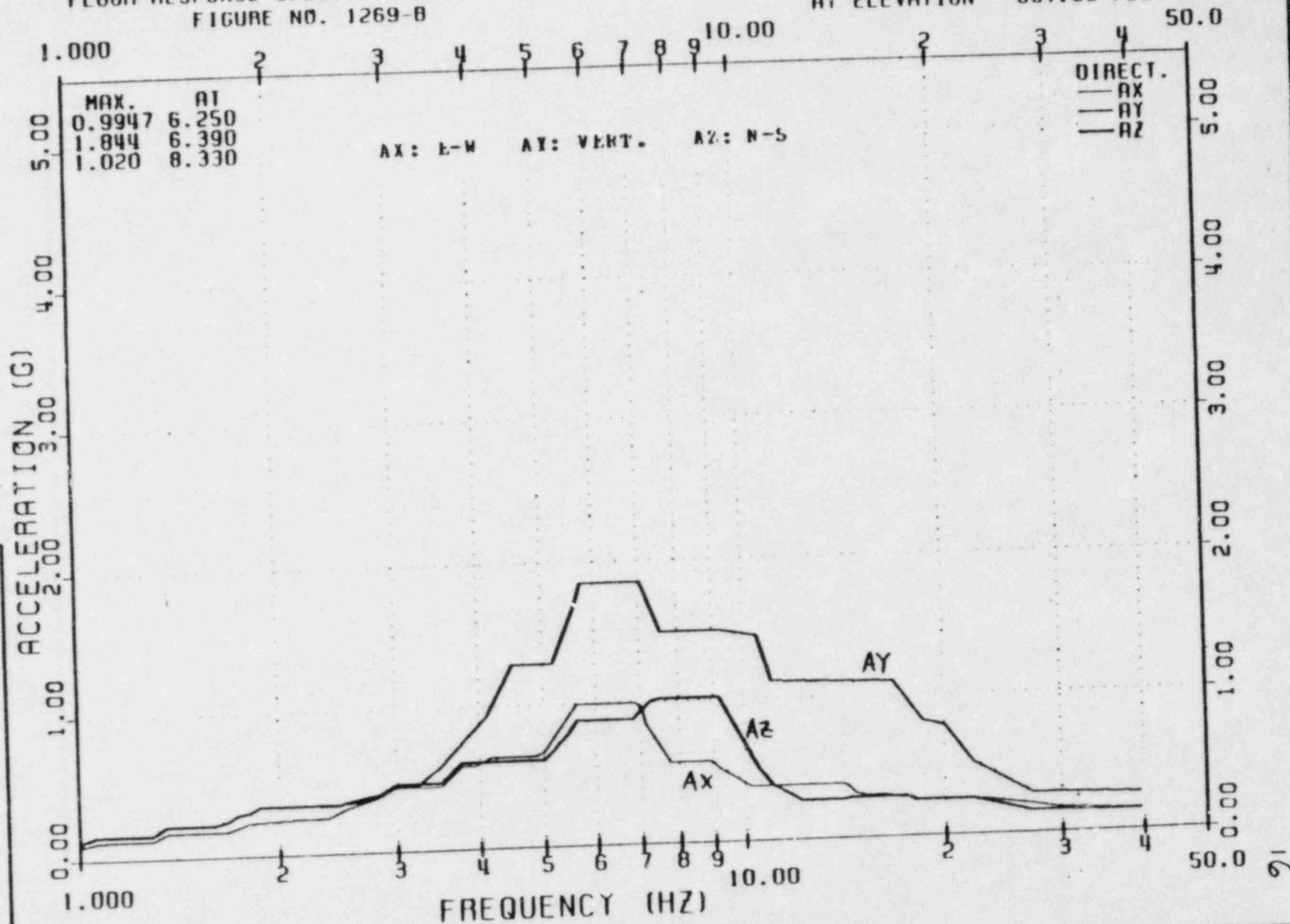
ISSUE NO.

APPROVED

ISSUED FOR

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. FLOOR RESPONSE SPECTRA FOR 1/2 SSE; FIGURE NO. 1269-B

DAMPING = 0.02
 AT ELEVATION 807.00 FEET



TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERING, DESIGN, CONSTRUCTION

JAN 11, 1973

FIGURE-1269-B

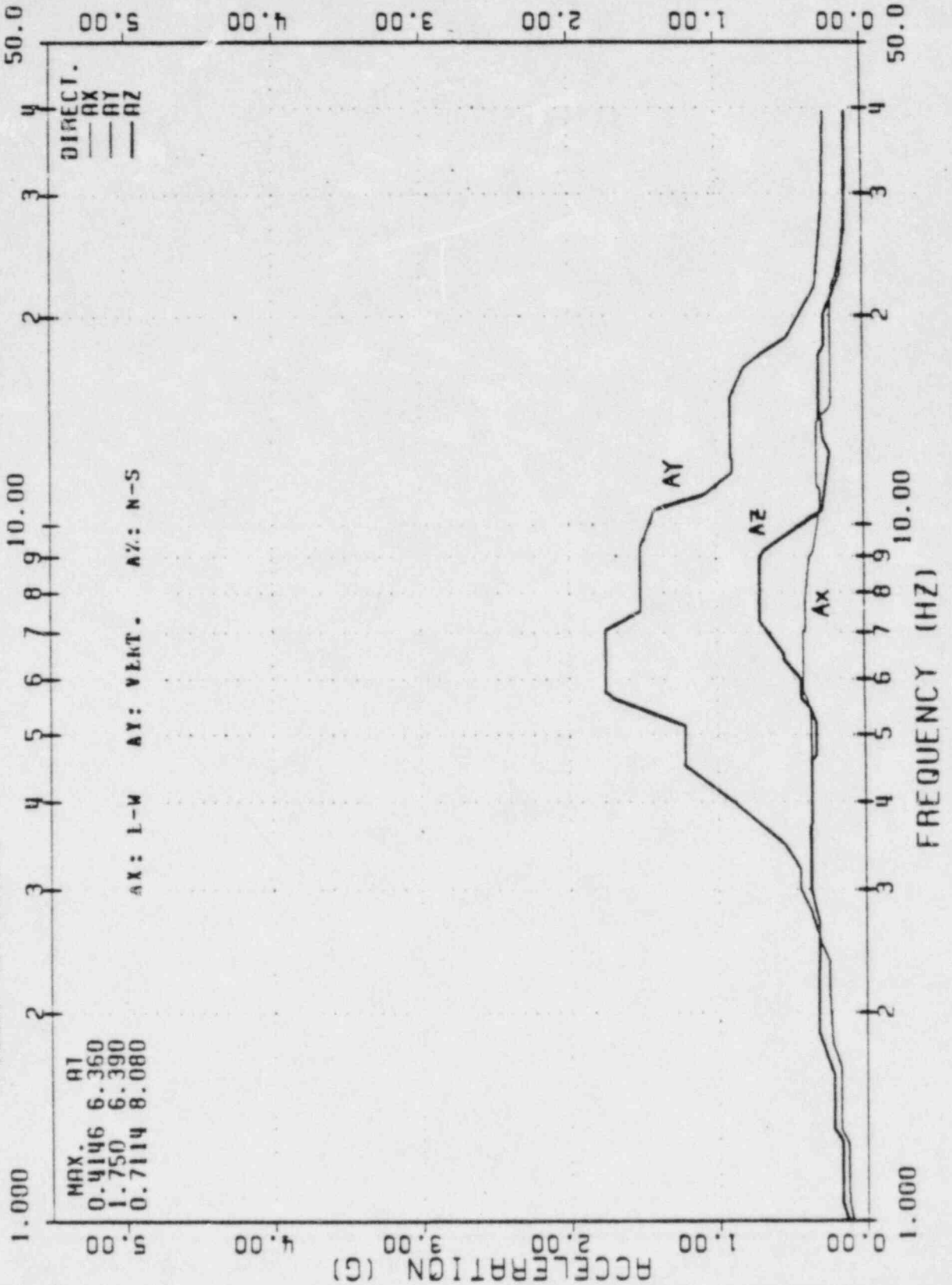
TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

FLOOR RESPONSE SPECTRA FOR 1/2 SSE:

FIGURE NO. 1270-B

DAMPING = 0.02

AT ELEVATION 778.00 FEET



TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.
 ENGINEERS, DESIGNERS, CONSTRUCTORS

FIGURE-1270-B

DATE PLTD. CHNG. 100.

ISSUED FOR

JOB NO. 2323

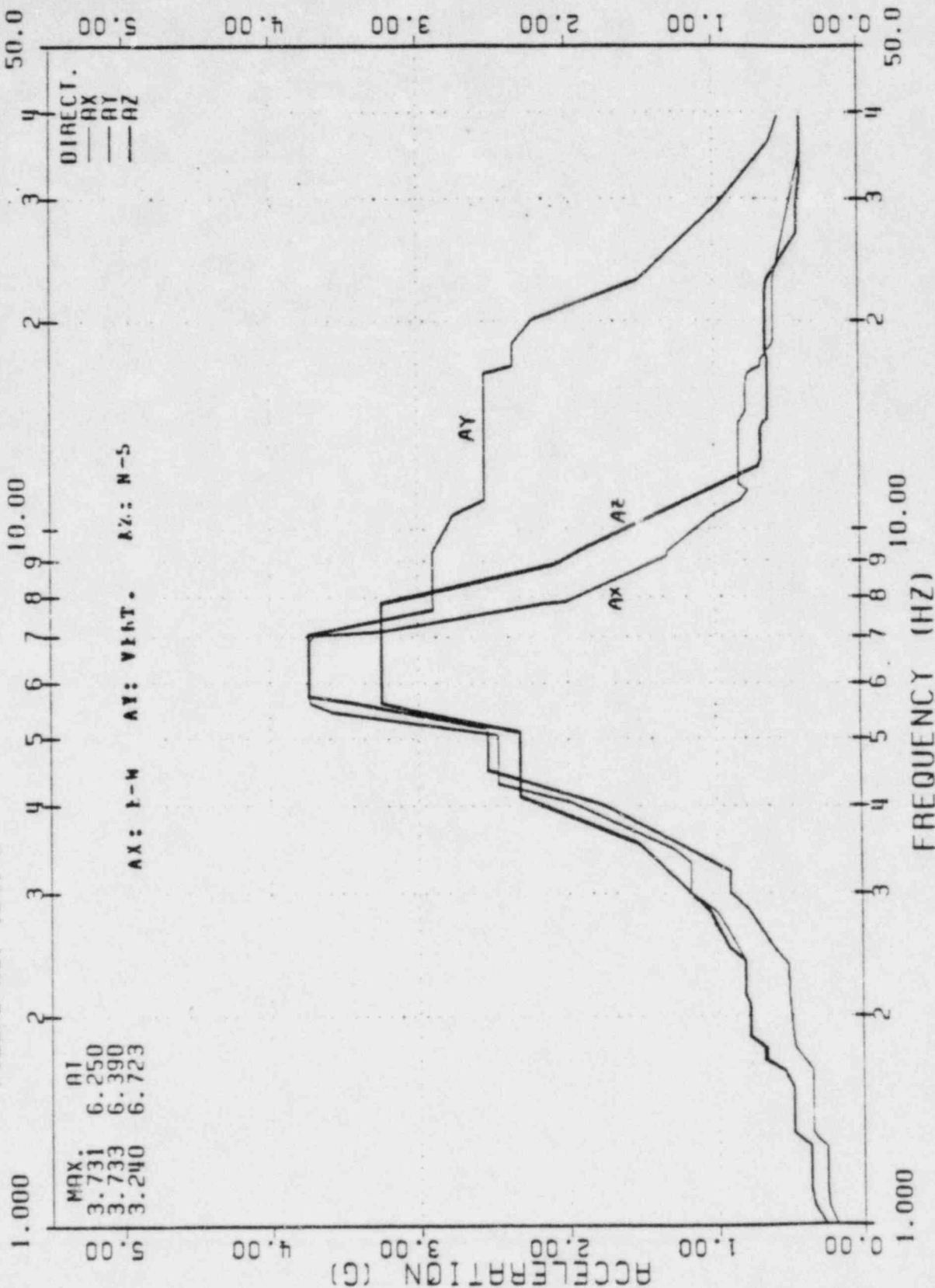
TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

FLOOR RESPONSE SPECTRA FOR SSE;

DAMPING = 0.02

AT ELEVATION 873.33 FEET

FIGURE NO. 1241-B



TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.
ENGINEERS, DESIGNERS, CONSTRUCTORS
1964

FIGURE-1241-B

11/23 RDP W/T

DATE PLTD. CNKD. 12/23

100% STRENGTH ELEC. DES. BLDG. 100% P.A.

ISSUED FOR

JOB NO. 2323

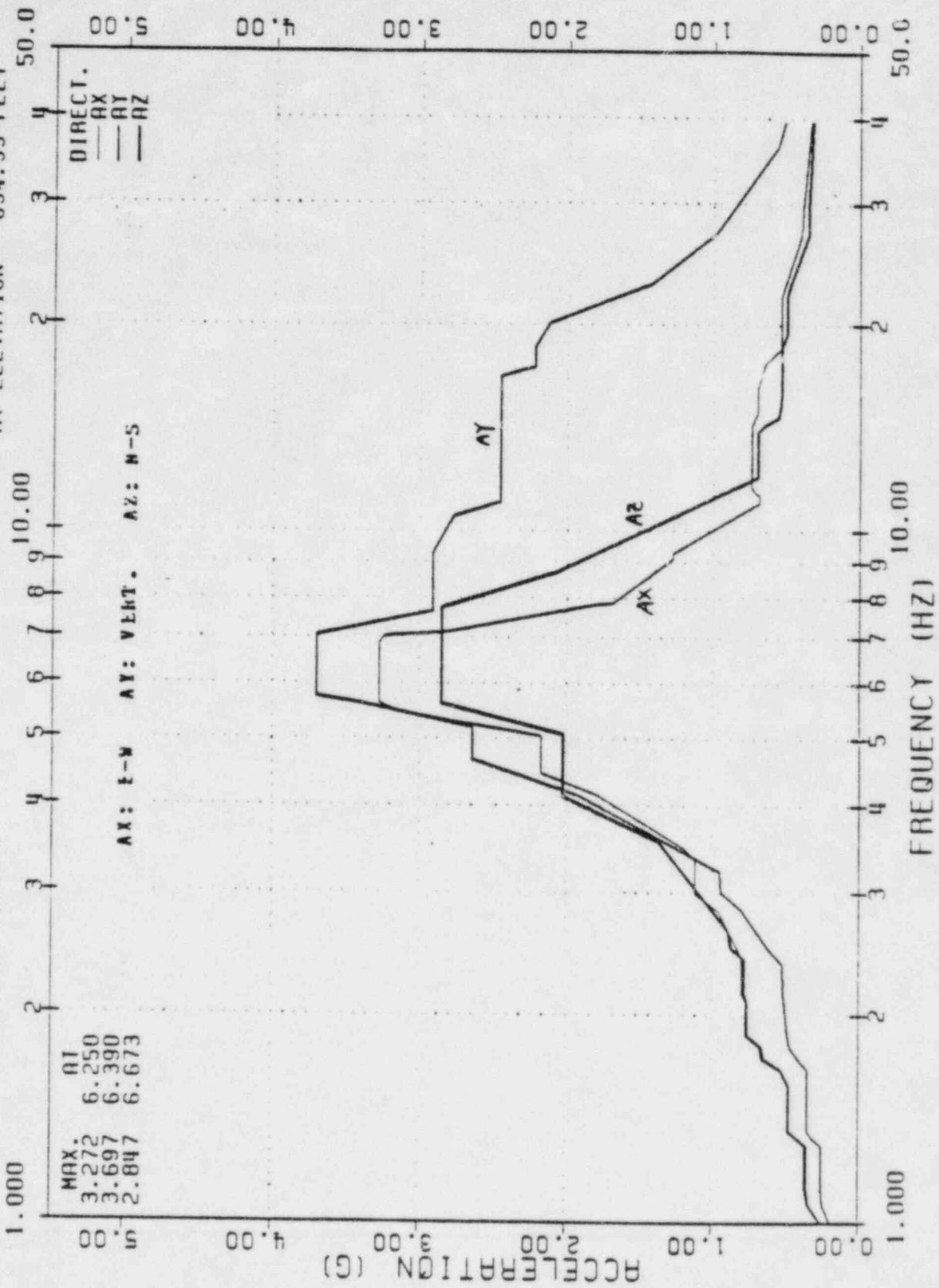
TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

FLOOR RESPONSE SPECTRA FOR SSE;

FIGURE NO. 1242-B

DAMPING = 0.02

AT ELEVATION 854.33 FEET



TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

FIGURE-1242-B

DATE PLTD. CHKD. 12/23/65

ISSUED FOR

ISSUED FOR

JOB NO. 2323

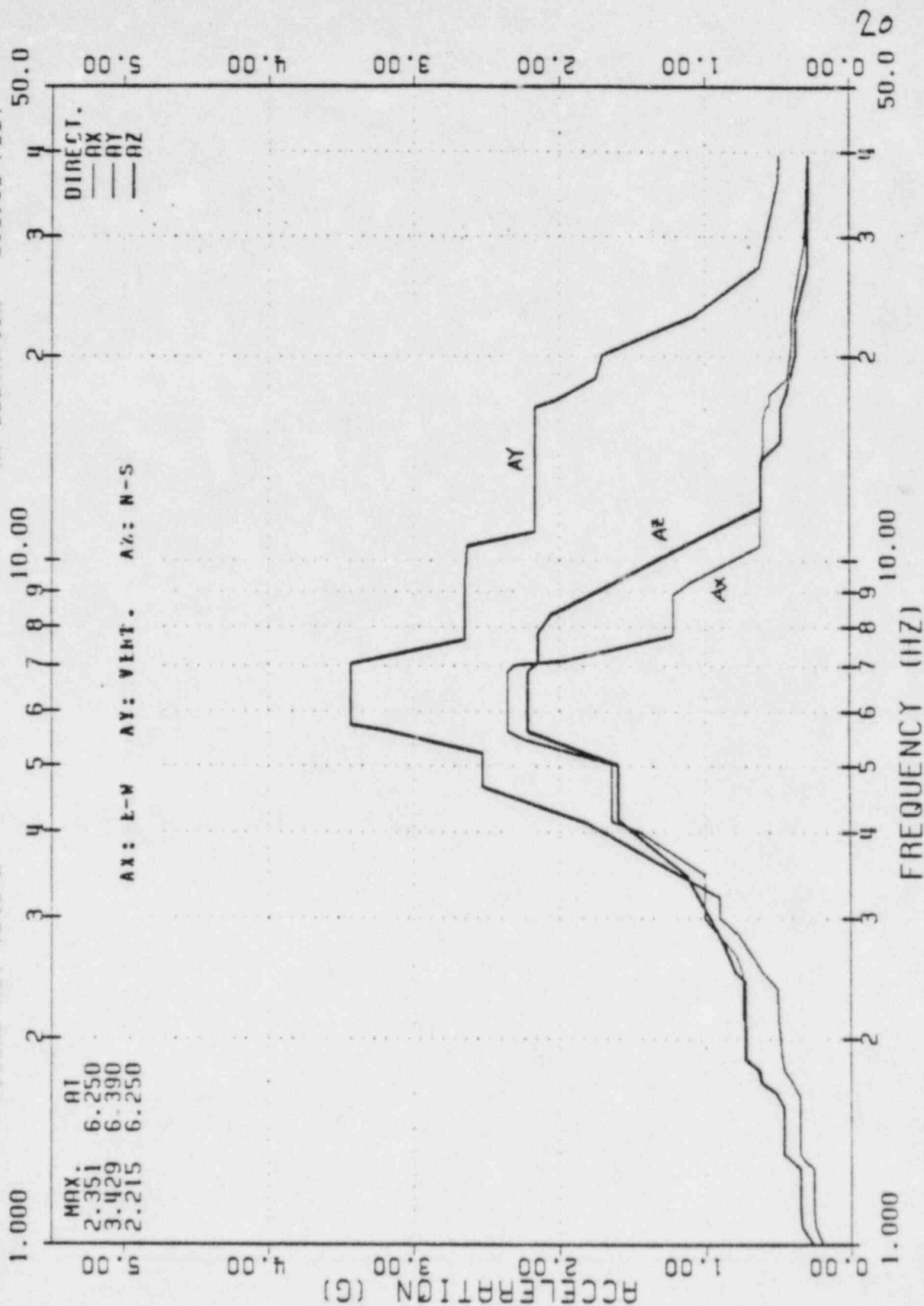
TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

FLOOR RESPONSE SPECTRA FOR SSE;

FIGURE NO. 1243-B

DAMPING = 0.02

AT ELEVATION 830.00 FEET



TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

JOB NO. 2525

FIGURE-1243-B

ISSUED

DATE PLTD. CHWD.

SCD.

ENGR. STRUCTURES, ELEC. DES. & MFG. DIV. P.E.

ISSUED FOR

177-86

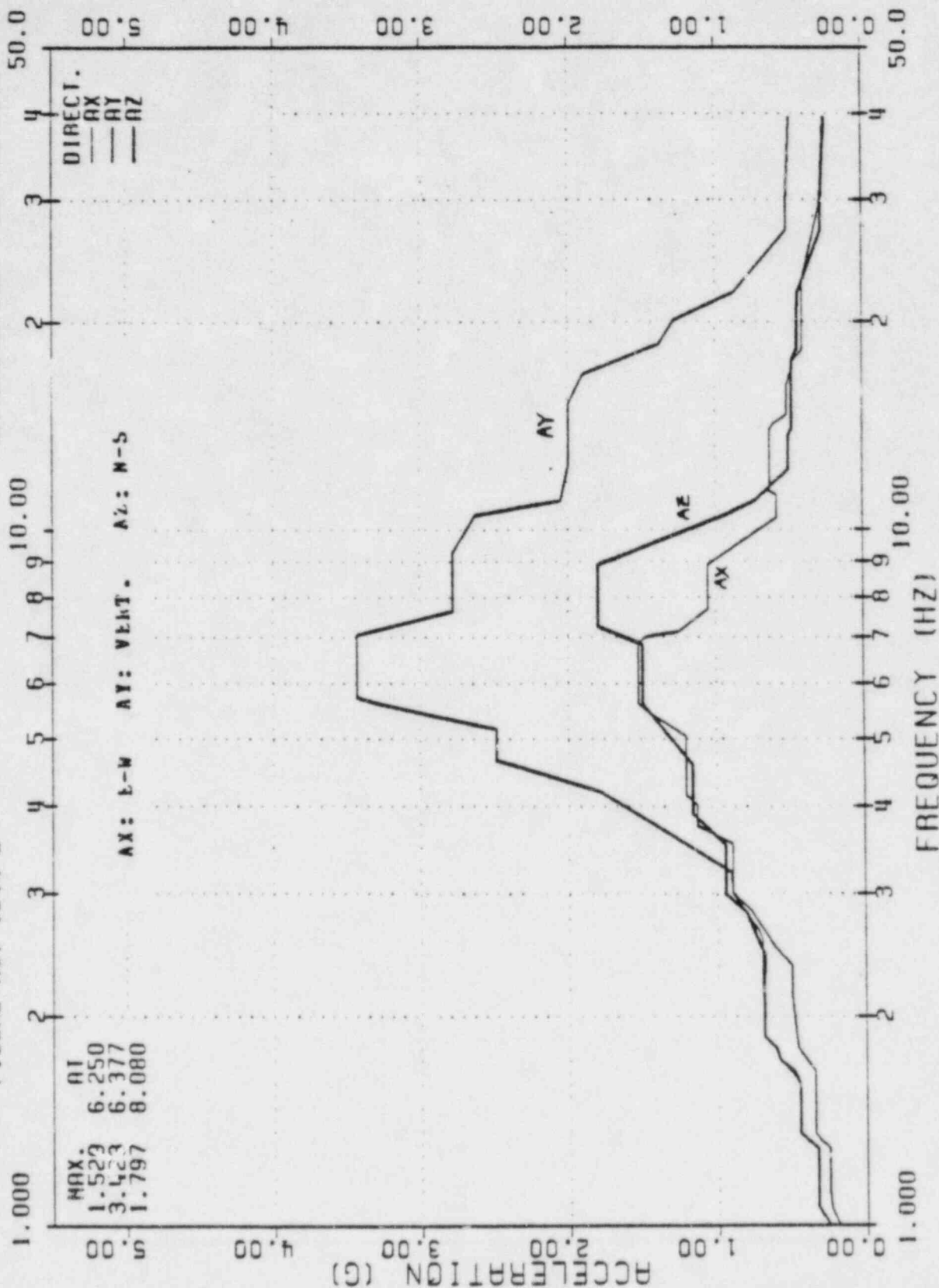
TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

FLOOR RESPONSE SPECTRA FOR SSE;

FIGURE NO. 1244-B

DAMPING = 0.02

AT ELEVATION 807.00 FEET



TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.
ENGINEERS, DESIGNERS, CONSTRUCTORS

FIGURE-1244-B

0 11/23 RDP-WT

ISSUE DATE PLTD. CHKD. SCD.

DESIGN. STRUCT. MECH. ELEC. MEAS. BLDG. CIVIL. P.E.

ISSUED FOR

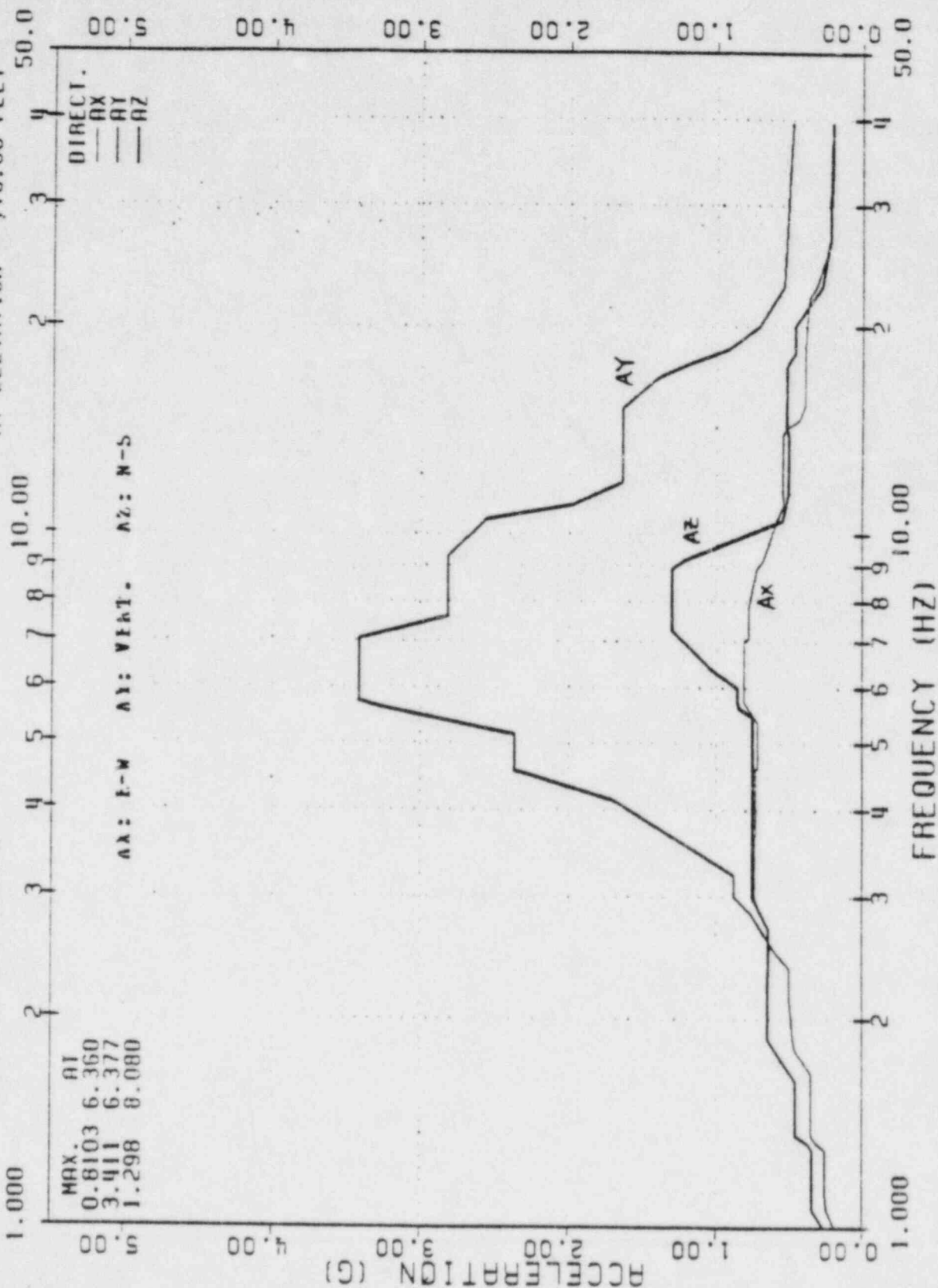
JOB NO. 2323

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

FLOOR RESPONSE SPECTRA FOR SSE;
FIGURE NO. 1245-B

DAMPING = 0.02

AT ELEVATION 778.00 FEET



TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

NEW YORK

FIGURE-1245-B

0 11/23/63 ADP WY

ISSUED DATE PLTD. CHRG. 500

WORK: STRUCT. MECH. ELEC. MECH. & BLDG. ENV. P.A.

APPROVAL

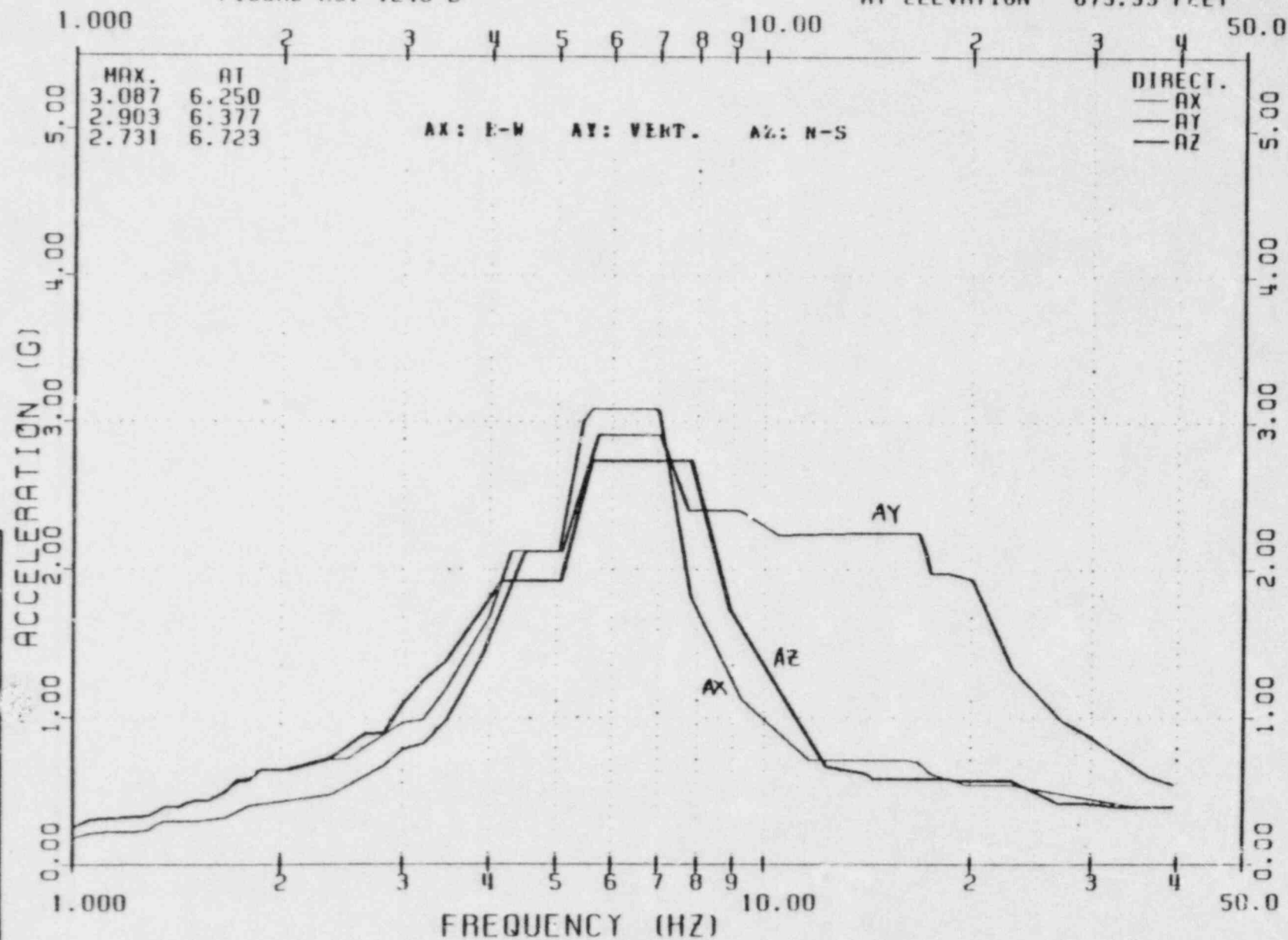
ISSUED FOR

JOB NO 2325

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

FLOOR RESPONSE SPECTRA FOR SSE;
FIGURE NO. 1246-B

DAMPING = 0.03
AT ELEVATION 873.33 FEET



TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

JOB NO. 2823

FIGURE-1246-B

0 1/23 NOV 67

ISSUED FOR P.L.S. CHAS. G. GIBBS

ISSUED FOR

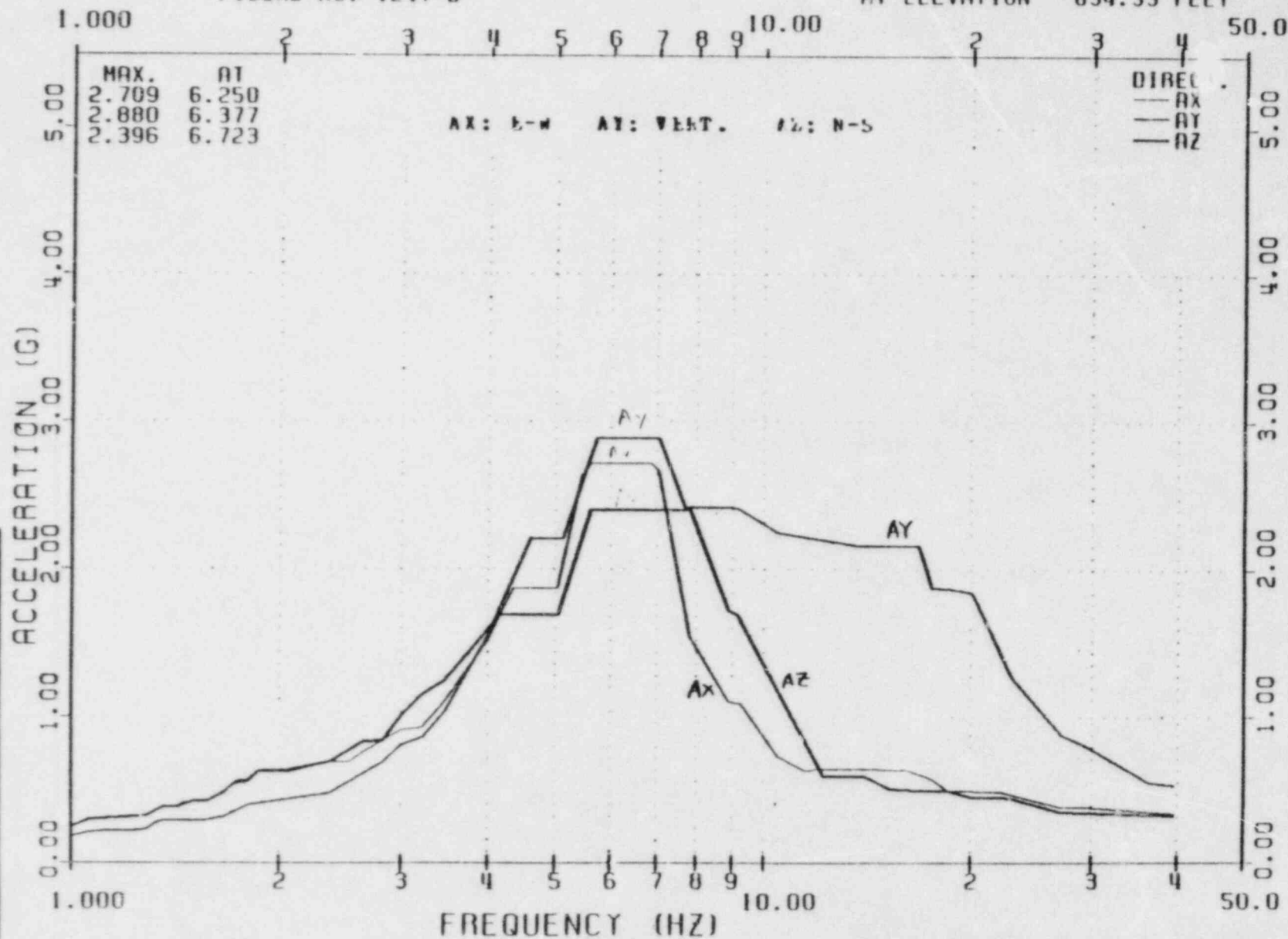
177-46

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

FLOOR RESPONSE SPECTRA FOR SSE;
FIGURE NO. 1247-B

DAMPING = 0.03

AT ELEVATION 854.33 FEET



TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSULTANTS

JOB NO. 2323

FIGURE-1247-B

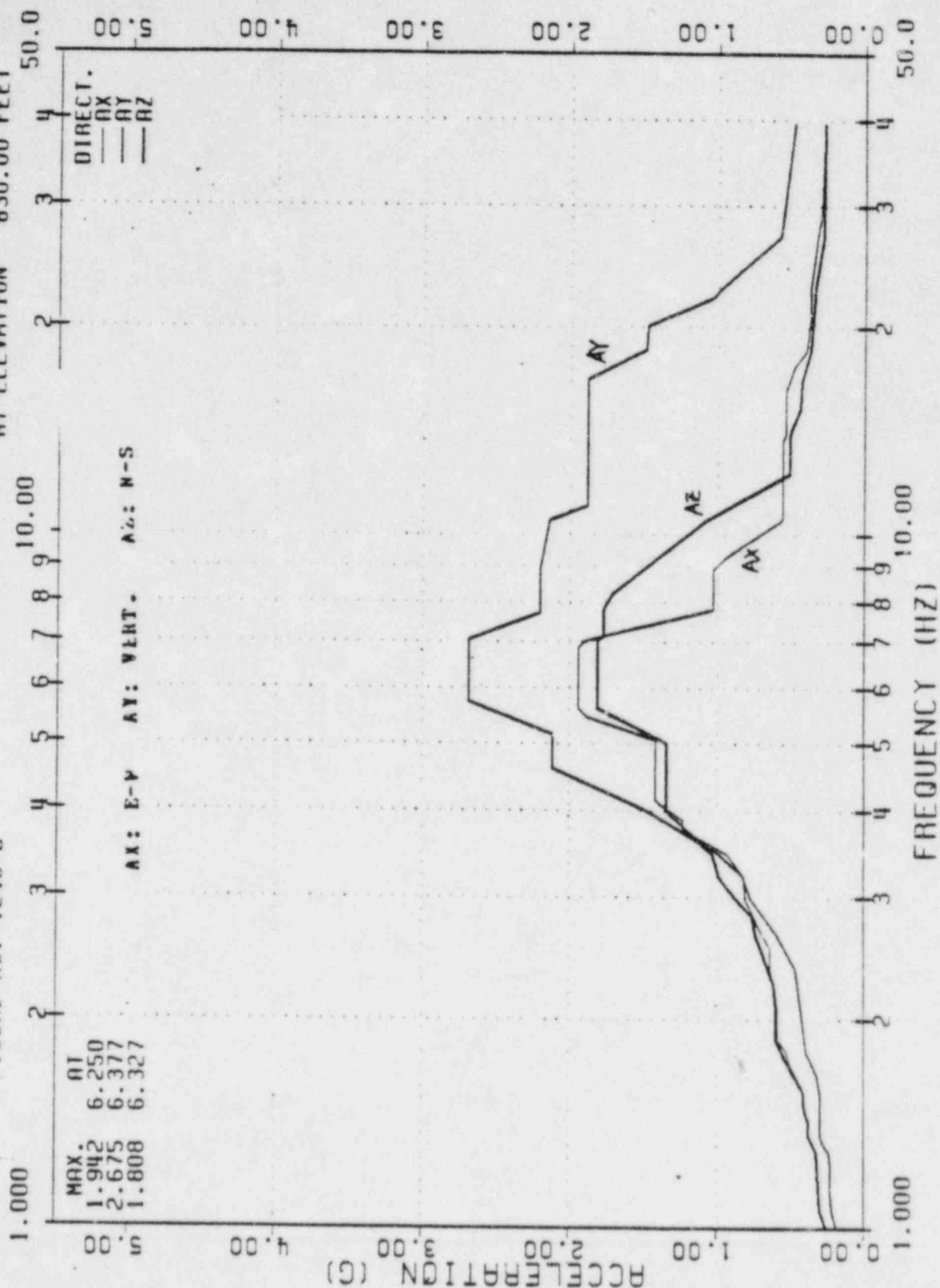
TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

FLOOR RESPONSE SPECTRA FOR SSE;

FIGURE NO. 1248-B

DAMPING = 0.03

AT ELEVATION 830.00 FEET



TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

JOB NO. 2323

FIGURE-1248-5

11/23/68 ADP WPT

DATE PLOD. CHKD. 100

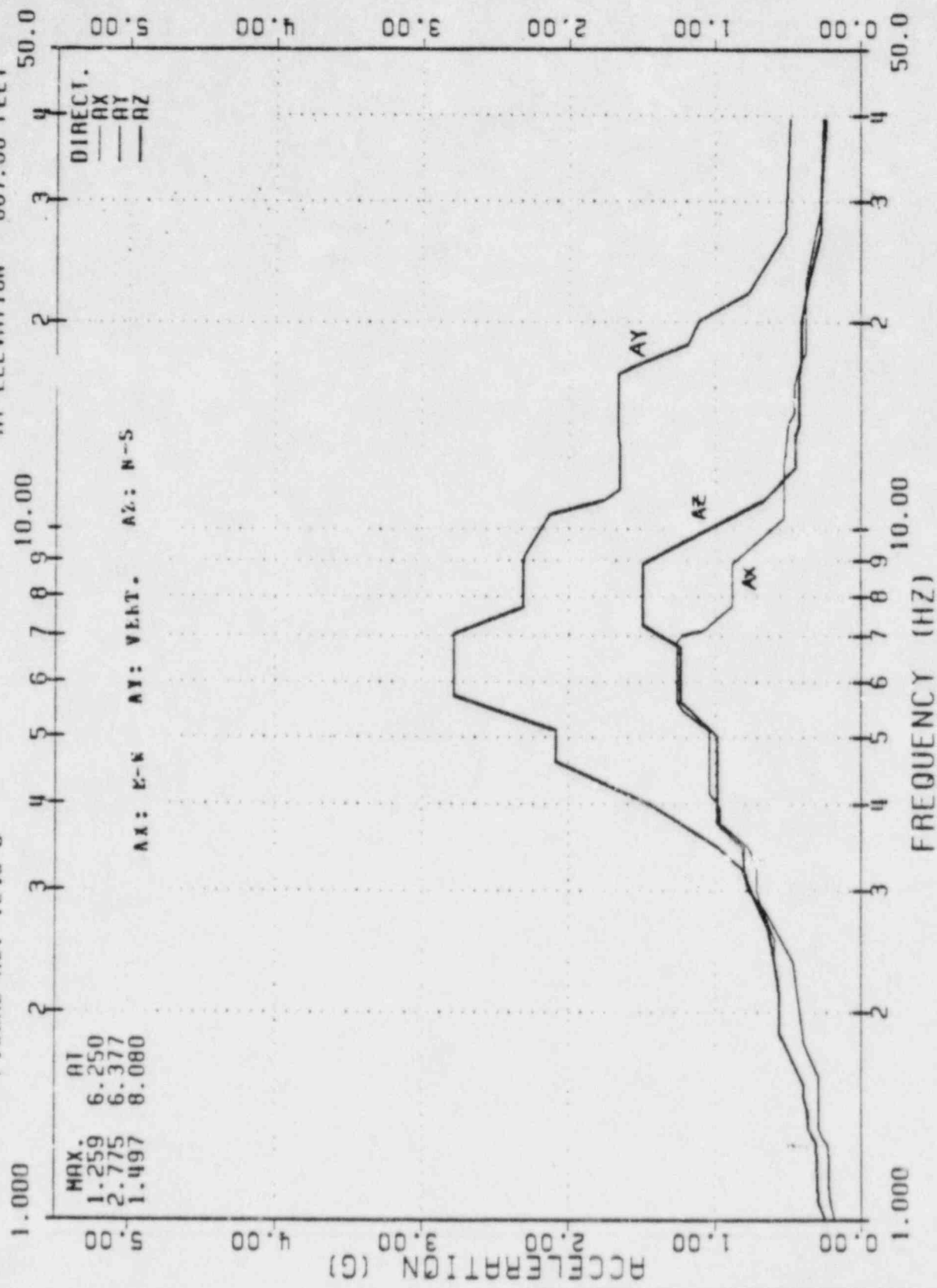
APPROVED BY: [Signature]

ISSUED FOR

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

FLOOR RESPONSE SPECTRA FOR SSE:
FIGURE NO. 1249-B

DAMPING = 0.03
AT ELEVATION 807.00 FEET



TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.
ENGINEERS, DESIGNERS, CONSTRUCTORS

FIGURE-1249-B

JOB NO. 2323

ISSUE NO. DATE PLT.G.CKD. BY

APPROVED BY

ISSUED FOR

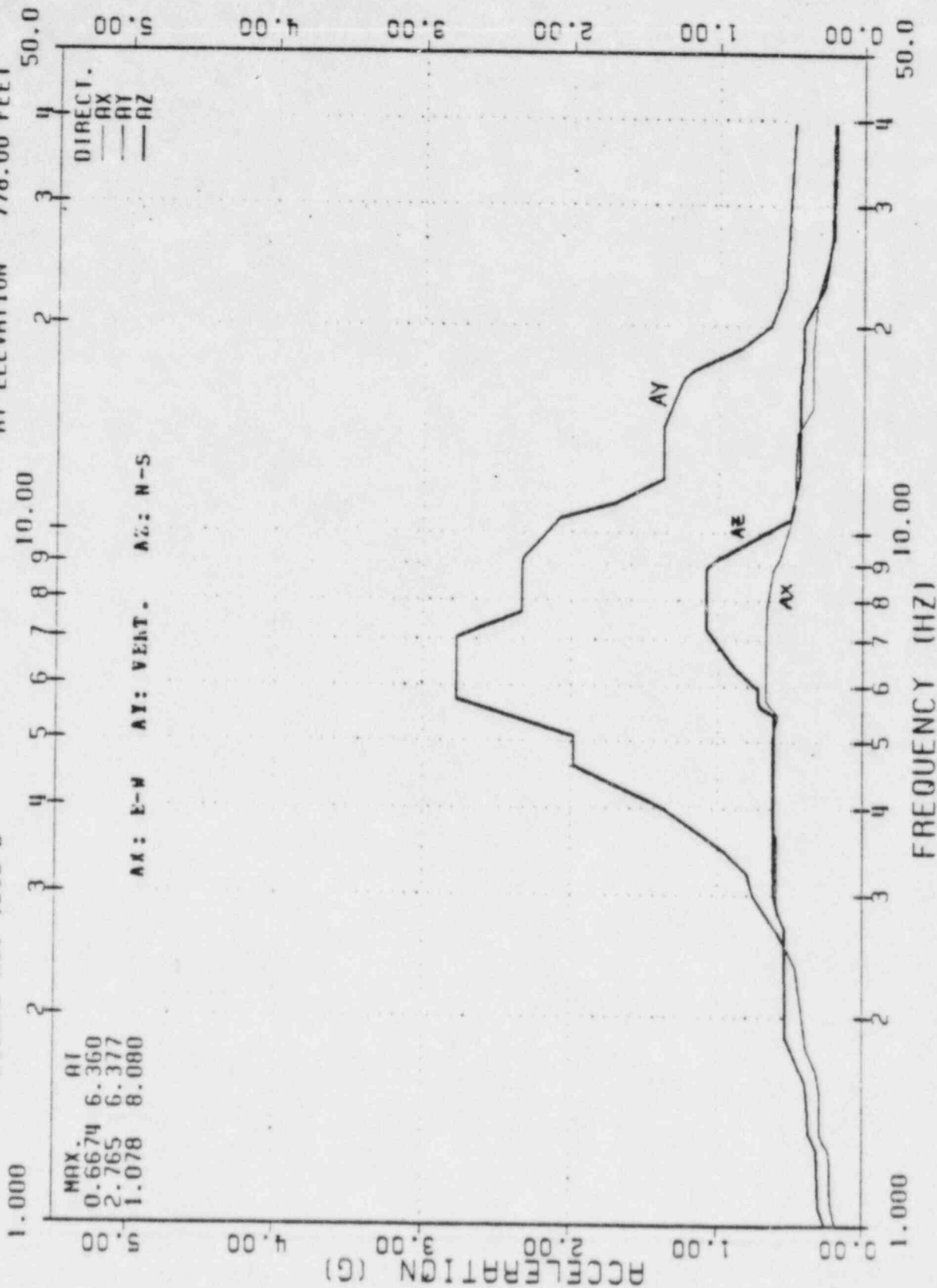
TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

FLOOR RESPONSE SPECTRA FOR SSE;

DAMPING = 0.03

FIGURE NO. 1250-B

AT ELEVATION 778.00 FEET



TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.
ENGINEERS, DESIGNERS, CONSTRUCTORS

JOB NO. 2323

FIGURE-1250-B

11/28/80 RDP:WT

DATE PLTD/CHKD: 12/1/80

APPROVED: 12/1/80

ISSUED FOR

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. ; FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX ; FIGURE NO. 1261-B										DAMPING = 0.01 AT ELEVATION		873.33 FEET		SET NO. = 1	
BROADBAND SPECTRUM FOR NODE=1261										DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 48		DAMPING VALUE = 0.010	
										DIRECTION 1				NO. OF SPECTRA = 1	
1	0.9000	0.14036	2	0.9450	0.14557	3	1.0114	0.14557	4	1.0620	0.19868				
5	1.1250	0.22368	6	1.3049	0.22368	7	1.3590	0.31304	8	1.4040	0.31304				
9	1.6720	0.31304	10	1.7280	0.40207	11	1.8000	0.41650	12	1.8720	0.47913				
13	1.9530	0.48808	14	2.0834	0.48808	15	2.1420	0.55093	16	2.5585	0.55093				
17	2.6460	0.56103	18	2.8170	0.69181	19	2.9970	0.80341	20	3.4188	0.80341				
21	3.4650	0.83423	22	4.0000	1.27236	23	4.5000	1.75898	24	5.0150	1.75898				
25	5.4630	0.83423	26	5.7510	3.64918	27	7.0290	3.64918	28	7.1280	3.51326				
29	7.8210	1.59693	30	7.8540	1.41889	31	8.8880	0.96021	32	9.2730	0.91051				
33	10.4940	0.72552	34	11.4030	0.69423	35	13.9370	0.69423	36	14.2120	0.67972				
37	14.6630	0.56997	38	14.8611	0.54634	39	16.7420	0.54634	40	17.0799	0.46822				
41	17.6527	0.46822	42	18.0000	0.49254	43	22.0000	0.49254	44	22.8690	0.40276				
45	27.0930	0.39151	46	29.4140	0.31878	47	33.3004	0.27639	48	39.5000	0.27639				

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. ; FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX ; FIGURE NO. 1262-B		DIRECTION 1		DAMPING = 0.01 AT ELEVATION 854.33 FEET		NO. OF SPECTRA = 1		SET NO. = 2																																																																																																																																				
BROADBAND SPECTRUM FOR NODE=1262				DEGREE OF FREEDOM = 1				NUMBER OF GRIDS = 47				DAMPING VALUE = 0.010																																																																																																																																
1	0.9000	0.13898	2	0.9450	0.14436	3	1.0119	0.14436	4	1.0620	0.19648	5	1.1250	0.22021	6	1.3052	0.22021	7	1.3590	0.30679	8	1.4040	0.30986	9	1.6739	0.30988	10	1.7280	0.39128	11	1.8000	0.40810	12	1.8720	0.46755	13	1.9530	0.47561	14	2.0852	0.47561	15	2.1420	0.53326	16	2.5182	0.53326	17	2.6460	0.53724	18	2.8170	0.65408	19	2.9970	0.75916	20	3.4692	0.75916	21	3.8878	1.14544	22	4.2500	1.45923	23	5.0040	1.53232	24	5.4630	3.06511	25	5.7510	3.15791	26	7.0290	3.27236	27	7.8210	3.37755	28	7.8540	3.61113	29	7.8540	1.35709	30	8.8880	0.66113	31	9.2730	0.66113	32	9.2730	0.66113	33	10.4940	0.64216	34	13.9370	0.59911	35	14.2120	0.59911	36	14.6630	0.50236	37	14.9332	0.48878	38	16.7420	0.47506	39	16.8196	0.47506	40	17.5120	0.47506	41	17.8569	0.44077	42	22.0000	0.44077	43	22.8690	0.34577	44	27.0930	0.31563	45	29.4140	0.22422	46	36.2312	0.22422	47	39.5000	0.22422

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. ; FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX ; DAMPING = 0.01 FIGURE NO. 1263-B DIRECTION 1 AT ELEVATION 830.00 FEET										SET NO. = 3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
BROADBAND SPECTRUM FOR NODE=1263				DEGREE OF FREEDOM = 1				NUMBER OF GRIDS = 47				DAMPING VALUE = 0.010																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

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TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;

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

FIGURE NO. 1264-B DIRECTION 1 AT ELEVATION 807.00 FEET

SET NO. = 4

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1264						DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 46		DAMPING VALUE = 0.010	
1	0.9000	0.13421	2	0.9450	0.14004	3	1.0118	0.14004	4	1.0620	0.19017
5	1.1250	0.20811	6	1.3110	0.20811	7	1.3230	0.22387	8	1.3590	0.29276
9	1.4040	0.29748	10	1.6820	0.29748	11	1.7280	0.35493	12	1.8720	0.42652
13	1.9530	0.43024	14	2.0904	0.43024	15	2.1420	0.47497	16	2.6180	0.47497
17	2.6438	0.45042	18	2.6460	0.45042	19	2.9970	0.60466	20	3.6087	0.60466
21	3.7530	0.71600	22	4.0055	0.71600	23	4.1490	0.77575	24	4.5911	0.77575
25	5.0040	0.83608	26	5.4630	1.33963	27	5.7510	1.36194	28	7.0290	1.36194
29	7.7458	0.71029	30	8.8880	0.71029	31	10.2820	0.58433	32	13.9370	0.58433
33	14.6630	0.43293	34	15.2130	0.37191	35	15.4543	0.36449	36	16.7420	0.36449
37	16.8327	0.34894	38	17.5120	0.34894	39	18.1411	0.30592	40	22.0000	0.30592
41	22.8690	0.29973	42	27.0930	0.23193	43	29.4140	0.18874	44	36.3000	0.18481
45	36.6622	0.16150	46	39.5000	0.16150						

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;

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

FIGURE NO. 1265-B DIRECTION 1 AT ELEVATION 778.00 FEET

SET NO. = 5

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1265						DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 49		DAMPING VALUE = 0.010	
1	0.9000	0.13594	2	0.9450	0.14222	3	1.0100	0.14222	4	1.0620	0.19551
5	1.1250	0.20498	6	1.3115	0.20498	7	1.3230	0.21852	8	1.3590	0.29173
9	1.4040	0.29735	10	1.6964	0.29735	11	1.7280	0.33066	12	1.8720	0.40226
13	2.1047	0.40226	14	2.1420	0.43015	15	2.6180	0.43015	16	2.6214	0.42710
17	2.8170	0.42710	18	2.9970	0.49005	19	3.6630	0.49005	20	3.7477	0.44635
21	3.7530	0.44635	22	4.2331	0.44635	23	4.5000	0.47565	24	5.3140	0.47565
25	5.4630	0.51085	26	5.7240	0.53010	27	5.7510	0.54904	28	5.8320	0.55156
29	7.1280	0.55156	30	7.8210	0.49573	31	7.8434	0.46327	32	8.8880	0.46327
33	9.0173	0.44701	34	11.2050	0.44701	35	11.4030	0.48222	36	13.9370	0.48222
37	14.2120	0.42237	38	14.6630	0.30998	39	14.7763	0.29436	40	17.3750	0.29436
41	18.0000	0.31090	42	22.0000	0.31090	43	22.8690	0.21956	44	26.4753	0.13192
45	29.4140	0.13192	46	31.4994	0.12471	47	35.4330	0.12471	48	36.0000	0.12522
49	39.5000	0.12522									

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;

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

FIGURE NO. 1261-B DIRECTION 2 AT ELEVATION 873.33 FEET

SET NO. = 6

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1261						DEGREE OF FREEDOM = 2		NUMBER OF GRIDS = 39		DAMPING VALUE = 0.010	
1	0.9000	0.10058	2	0.9450	0.10270	3	1.0069	0.10270	4	1.0620	0.14225
5	1.1250	0.14808	6	1.2893	0.14808	7	1.3230	0.17148	8	1.3590	0.21504
9	1.6922	0.21504	10	1.7280	0.24513	11	1.8000	0.28054	12	1.8720	0.30383
13	2.0711	0.30383	14	2.1420	0.34203	15	2.4399	0.34203	16	2.5020	0.38947
17	2.6460	0.39202	18	2.8170	0.51993	19	2.9970	0.61709	20	3.2998	0.61709
21	3.4650	0.69845	22	4.1002	1.16133	23	4.6000	1.72904	24	5.2381	1.72904
25	5.4630	2.13807	26	5.6250	2.25680	27	5.8320	2.81722	28	7.1280	2.81722
29	7.5525	2.27763	30	10.4940	2.27763	31	11.0000	1.92093	32	18.5460	1.92093
33	20.0310	1.66411	34	22.0000	1.28989	35	22.8690	1.11135	36	27.0930	0.69418
37	29.4140	0.65589	38	36.3000	0.41320	39	39.5000	0.35406			

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;

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

FIGURE NO. 1262-B DIRECTION 2 AT ELEVATION 854.33 FEET

SET NO. = 7

NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE = 1262				DEGREE OF FREEDOM =				NUMBER OF GRIDS = 40				DAMPING VALUE =																																																																																																											
i	0.9000	0.10047	2	0.9450	0.10260	3	1.0068	0.10260	4	1.0620	0.14233	5	1.1250	0.14719	6	1.2086	0.14719	7	1.2886	0.17152	8	1.3590	0.21497	9	1.6912	0.21497	10	1.7280	0.24586	11	1.8000	0.28090	12	1.8720	0.30493	13	2.0692	0.30493	14	2.1420	0.34651	15	2.4363	0.34651	16	2.5020	0.39639	17	2.6460	0.39639	18	2.8170	0.53044	19	2.9970	0.63223	20	3.2724	1.80002	21	3.4650	0.75260	22	4.0994	1.26813	23	4.6000	1.80002	24	5.2691	1.80002	25	5.4630	2.13344	26	5.6250	2.24016	27	5.8320	2.78178	28	7.1280	2.78178	29	7.5452	2.27084	30	10.4940	2.27084	31	11.0000	1.82703	32	15.2130	1.82703	33	15.2274	1.79564	34	18.5460	1.79564	35	20.0310	1.58183	36	22.0000	1.24211	37	22.8690	1.05449	38	27.0930	0.61821	39	29.4140	0.56789	40	39.5000	0.32296

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. ;				DAMPING = 0.01				SET NO. = 8			
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY ;				AT ELEVATION				NO. OF SPECTRA = 1			
FIGURE NO. 1263-B				DIRECTION 2				830.00 FEET			

BROADENED SPECTRUM FOR NODE=1263				DEGREE OF FREEDOM =				NUMBER OF GRIDS = 44				DAMPING VALUE =			
1	0.9000	0.09987	2	0.9450	0.10199	2	3	1.0068	0.10199	4	1.0620	0.14052			
5	1.1250	0.14674	6	1.2894	0.14674	7	7	1.3230	0.16979	8	1.3590	0.21325			
9	1.6929	0.21325	10	1.7280	0.24184	11	11	1.8000	0.27721	12	1.8720	0.29938			
13	2.0700	0.29938	14	2.1420	0.33562	15	15	2.4372	0.33562	16	2.5020	0.38522			
17	2.6460	0.38704	18	2.8170	0.51200	19	19	2.9970	0.60850	20	3.2813	0.60850			
21	3.4650	0.71690	22	4.0944	1.20739	23	23	4.5500	1.72496	24	5.2880	1.72496			
25	5.4630	1.99371	26	5.6250	2.08389	27	27	5.8320	2.57149	28	7.1280	2.57149			
29	7.5712	2.16499	30	10.4940	2.16499	31	31	11.0000	1.63696	32	15.2130	1.63696			
33	15.2570	1.54161	34	16.1480	1.53208	35	35	16.7420	1.50977	36	16.9948	1.37791			
37	18.5460	1.37791	38	20.0310	1.26398	39	39	22.0000	0.95148	40	22.8620	0.76578			
41	27.0930	0.40762	42	29.4140	0.37515	43	43	36.3000	0.26704	44	39.5000	0.26280			

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. ;				DAMPING = 0.01				SET NO. = 9			
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY ;				AT ELEVATION				NO. OF SPECTRA = 1			
FIGURE NO. 1264-B				DIRECTION 2				807.00 FEET			

BROADENED SPECTRUM FOR NODE=1264				DEGREE OF FREEDOM =				NUMBER OF GRIDS = 41				DAMPING VALUE =			
1	0.9000	0.10053	2	0.9450	0.10256	2	3	1.0059	0.10256	4	1.0620	0.010	0.14088		
5	1.1250	0.14695	6	1.2089	0.14695	7	7	1.3230	0.17024	8	1.3590	0.21360	0.29971		
9	1.6929	0.21360	10	1.7280	0.24242	11	11	1.8000	0.27859	12	1.8720	0.38395	0.60702		
13	2.0694	0.29971	14	2.1420	0.33700	15	15	2.4397	0.33700	16	2.5020	0.38395	0.60702		
17	2.6460	0.38663	18	2.8170	0.51132	19	19	2.9970	0.60702	20	3.2843	0.60702	1.51514		
21	3.4650	0.70667	22	4.1022	1.18853	23	23	4.6000	1.68023	24	5.2391	1.68023	2.68867		
25	5.4630	2.05835	26	5.6250	2.16433	27	27	5.8320	2.68867	28	7.1280	2.68867	1.51514		
29	7.5607	2.15583	30	9.5400	2.15583	31	31	11.0000	1.51514	32	15.2130	1.51514	1.7221		
33	15.2570	1.42212	34	16.7420	1.32765	35	35	17.0544	1.17221	36	17.5120	1.7221	0.28563		
37	20.0310	0.97044	38	22.0000	0.67861	39	39	22.8690	0.53996	40	27.0930	0.28563			
41	39.5000	0.26253													

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. ;				DAMPING = 0.01				SET NO. = 10			
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY ;				AT ELEVATION				NO. OF SPECTRA = 1			
FIGURE NO. 1265-B				DIRECTION 2				778.00 FEET			

BROADENED SPECTRUM FOR NODE=1265				DEGREE OF FREEDOM =				NUMBER OF GRIDS = 46				DAMPING VALUE =			
1	0.9000	0.10101	2	0.9450	0.10287	2	3	1.0070	0.10287	4	1.0620	0.010	0.14074		
5	1.1250	0.14722	6	1.2095	0.14722	7	7	1.3230	0.16963	8	1.3590	0.21303	0.29750		
9	1.6933	0.21303	10	1.7280	0.24104	11	11	1.8000	0.27832	12	1.8720	0.37852	0.59412		
13	2.0698	0.29750	14	2.1420	0.33409	15	15	2.4417	0.33409	16	2.5020	1.51514	1.58261		
17	2.6460	0.37958	18	2.8170	0.50120	19	19	2.9970	0.59412	20	3.3000	0.59412			
21	3.4650	0.67406	22	4.1126	1.12609	23	23	4.5500	1.58261	24	5.2022	1.58261			

25	5.4630	2.03988	26	5.6250	2.15885	27	5.7510	2.49039	28	5.8320	2.69377
29	7.1280	2.69377	30	7.5412	2.10514	31	7.9544	2.10514	32	8.3676	1.44313
33	11.5790	1.23290	34	12.4463	1.23290	35	12.8600	1.23290	36	13.2736	1.23290
37	15.2570	1.15781	38	16.7420	1.00021	39	17.0651	0.86252	40	17.5120	0.86252
41	18.5460	0.62496	42	20.0310	0.52513	43	22.8690	0.32853	44	27.0930	0.29691
45	36.3000	0.26058	46	39.5000	0.25705						

FUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ;
FIGURE NO. 1261-B
DIRECTION 3
DAMPING = 0.01
AT ELEVATION 873.33 FEET

BROADENED SPECTRUM FOR NODE=1261											
1	0.9000	0.13807	2	0.9450	0.14378	3	1.0094	0.14378	4	1.0620	0.010
5	1.1250	0.22857	6	1.3052	0.22857	7	1.3590	0.39669	8	1.4040	0.19770
9	1.6665	0.31075	10	1.7280	0.41415	11	1.8000	0.42349	12	1.8720	0.31075
13	1.9530	0.50396	14	2.0955	0.50396	15	2.1420	0.54686	16	2.4672	0.46605
17	2.5020	0.58276	18	2.6460	0.58513	19	3.3365	0.89166	20	4.1700	0.54686
21	5.0501	1.57537	22	5.4630	2.54890	23	5.6250	2.91360	24	5.7281	1.57537
25	5.7510	3.08551	26	5.8320	3.11807	27	7.1280	3.11807	28	7.8210	2.91360
29	7.8540	2.48197	30	8.8248	1.46840	31	9.1630	1.46840	32	10.4940	2.81087
33	11.0000	0.79647	34	12.1525	0.49738	35	13.9370	0.49738	36	14.2764	1.22349
37	16.9846	0.44022	38	18.0000	0.54013	39	22.0000	0.54013	40	26.5568	0.44022
41	29.4140	0.27903	42	32.3528	0.25618	43	39.5000	0.25618	44		0.27903

FUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ;
FIGURE NO. 1262-B
DIRECTION 3
DAMPING = 0.01
AT ELEVATION 854.33 FEET

BROADENED SPECTRUM FOR NODE=1262											
1	0.9000	0.13694	2	0.9450	0.14288	3	1.0101	0.14288	4	1.0620	0.010
5	1.1250	0.22377	6	1.3055	0.22377	7	1.3590	0.30573	8	1.4040	0.19619
9	1.6695	0.30764	10	1.7280	0.40040	11	1.8000	0.41434	12	1.8720	0.30764
13	1.9530	0.48785	14	2.0977	0.48785	15	2.1420	0.52572	16	2.4786	0.47265
17	2.5020	0.54733	18	2.6460	0.55532	19	2.9970	0.63147	20	3.3908	0.52572
21	3.4650	0.87116	22	4.1000	1.36542	23	5.0251	1.36542	24	5.4630	0.83147
25	5.6250	2.56535	26	7.1280	2.56535	27	7.5000	2.47108	28	7.8540	2.24065
29	8.7847	1.53880	30	9.9000	1.03030	31	11.0000	0.72477	32	11.7417	2.16868
33	13.9370	0.52192	34	14.2120	0.49146	35	14.6630	0.39046	36	14.7961	0.52192
37	14.8918	0.37560	38	15.1740	0.37770	39	17.8946	0.37770	40	18.0000	0.37560
41	22.0000	0.38235	42	26.0022	0.22801	43	29.4140	0.22801	44	35.1223	0.38235
45	39.5000	0.20155									0.20155

FUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ;
FIGURE NO. 1263-B
DIRECTION 3
DAMPING = 0.01
AT ELEVATION 830.00 FEET

BROADENED SPECTRUM FOR NODE=1263											
1	0.9000	0.13516	2	0.9450	0.14131	3	1.0110	0.14131	4	1.0620	0.010
5	1.1250	0.21658	6	1.3061	0.21658	7	1.3590	0.29945	8	1.4040	0.19379
9	1.6739	0.30212	10	1.7280	0.37969	11	1.8720	0.45076	12	1.9530	0.30212
13	2.1023	0.46310	14	2.1420	0.49372	15	2.4950	0.49372	16	2.5020	0.46310
17	2.6460	0.50027	18	2.9970	0.73807	19	3.4640	0.73807	20	4.0000	0.49940
21	5.0260	1.05310	22	5.4630	1.70593	23	5.6250	1.94099	24	5.7397	1.05310
25	5.7510	1.98500	26	5.8320	2.00100	27	7.1280	2.00100	28	7.8210	1.82297
29	7.8540	1.59211	30	8.4000	0.82424	31	10.2000	0.82424	32	11.0000	0.64137
33	11.6552	0.47559	34	13.9370	0.47559	35	14.2120	0.46587	36	14.6512	0.34433
37	16.7420	0.34433	38	16.8473	0.32704	39	17.5120	0.32704	40	18.3700	0.27219
41	22.0000	0.27219	42	22.8690	0.25991	43	26.8126	0.17912	44	29.4140	0.17912

45 33.4351 0.17396 46 39.5000 0.17396

TUST-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ; DAMPING = 0.01
FIGURE NO. 1264-B DIRECTION 3 AT ELEVATION 307.00 FEET

SET NO. = 14
NO. OF SPECTRA = 1

BROADBAND SPECTRUM FOR NODE=1264				NUMBER OF GRIDS = 41				DAMPING VALUE = 0.010			
1	0.9000	0.13349	2	0.9450	0.13963	3	1.0111	4	1.0620	0.19132	
5	1.1250	0.20887	6	1.3111	0.20887	7	1.3230	8	1.3590	0.29217	
9	1.4040	0.29662	10	1.6804	0.29662	11	1.7280	12	1.8720	0.42675	
13	1.9530	0.43528	14	2.1009	0.43528	15	2.1620	16	2.6180	0.46631	
17	2.6298	0.45608	18	2.6460	0.45608	19	2.9970	20	3.6014	0.63416	
21	3.7530	0.74156	22	5.0845	0.74156	23	5.4630	24	5.6250	1.19274	
25	5.7510	1.19912	26	7.1018	1.19912	27	7.2720	28	7.4970	1.31892	
29	9.1630	1.31892	30	11.0000	0.45924	31	11.6067	32	14.2554	0.38524	
33	14.3280	0.41401	34	17.5120	0.41401	35	17.7872	36	22.0000	0.37405	
37	22.8690	0.28013	38	26.0415	0.18514	39	29.4140	40	34.2405	0.15608	
41	39.5000	0.15608									

TUST-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ; DAMPING = 0.01
FIGURE NO. 1265-B DIRECTION 3 AT ELEVATION 778.00 FEET

SET NO. = 15
NO. OF SPECTRA = 1

BROADBAND SPECTRUM FOR NODE=1265				DEGREE OF FREEDOM = 3				NUMBER OF GRIDS = 46				DAMPING VALUE = 0.010																																																																																			
1	0.9000	0.13737	2	0.9450	0.14375	3	1.0101	4	1.0620	5	0.19721	6	1.3116	7	0.20706	8	1.3590	9	0.29445	10	0.40610	11	1.6966	12	1.8720	13	2.1057	14	0.40610	15	2.6180	16	2.6243	17	2.8170	18	0.42742	19	3.6630	20	3.7751	21	4.3666	22	4.3980	23	5.3233	24	5.4630	25	5.6250	26	5.3567	27	5.8621	28	6.3990	29	6.6217	30	7.2720	31	8.8880	32	9.1630	33	10.4940	34	12.0625	35	12.9022	36	13.2120	37	13.6980	38	14.1753	39	14.3280	40	17.5120	41	18.3322	42	20.0310	43	22.0000	44	22.8690	45	27.0930	46	39.5000	47	0.11150

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. ; FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX ; FIGURE NO. 1266-B DIRECTION 1 DAMPING = 0.02 AT ELEVATION 873.33 FEET										SET NO. = 1
BROADENED SPECTRUM FOR MODE=1266										NO. OF SPECTRA = 1
		DEGREE OF FREEDOM =	NUMBER OF GRIDS =	DAMPING VALUE =						
1	0.9000	0.13199	2	0.9450	0.13632	3	1.0104	0.13632	4	1.0620
5	1.1250	0.17962	6	1.2933	0.17962	7	1.3590	0.23182	8	1.5720
9	1.6650	0.27021	10	1.7200	0.33091	11	1.8000	0.33144	12	1.8720
13	2.0525	0.38803	14	2.1420	0.41038	15	2.4410	0.41038	16	2.5020
17	2.8170	0.50631	18	2.9970	0.59307	19	3.2965	0.59307	20	3.4650
21	3.9500	1.03679	22	4.3000	1.35298	23	4.9496	1.35298	24	5.0040
25	5.4630	2.33745	26	5.6250	2.53930	27	6.8750	2.53930	28	6.9960
29	7.0290	2.50629	30	7.8210	1.28817	31	9.1267	0.72931	32	9.2730
33	10.4940	0.58503	34	11.0000	0.52056	35	14.2120	0.52056	36	14.6630
37	14.8998	0.46779	38	16.1480	0.46779	39	16.7420	0.46628	40	17.1600
41	18.8204	0.37300	42	22.0000	0.37300	43	22.8690	0.34744	44	17.1600
45	29.4140	0.30023	46	33.9594	0.26155	47	39.5000	0.26155	48	27.0930

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. ; FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX ; FIGURE NO. 1267-B DIRECTION 1 DAMPING = 0.02 AT ELEVATION 854.33 FEET										SET NO. = 2
BROADENED SPECTRUM FOR MODE=1267										NO. OF SPECTRA = 1
		DEGREE OF FREEDOM =	NUMBER OF GRIDS =	DAMPING VALUE =						
1	0.9000	0.13064	2	0.9450	0.13512	3	1.0097	0.13512	4	1.0620
5	1.1250	0.17653	6	1.2923	0.17653	7	1.3590	0.23505	8	1.5756
9	1.6650	0.26523	10	1.7280	0.32205	11	1.8000	0.32499	12	1.8720
13	2.0569	0.37776	14	2.1420	0.37733	15	2.4379	0.37733	16	2.5020
17	2.8460	0.44240	18	2.8170	0.47859	19	2.9970	0.56124	20	3.3211
21	3.4650	0.61877	22	4.0000	0.93414	23	4.3000	1.17195	24	4.8251
25	5.0040	1.21825	26	5.4630	2.08021	27	5.6250	2.21816	28	6.8750
29	6.9960	2.19862	30	7.8210	2.19866	31	7.8210	1.09963	32	8.8880
33	9.4730	0.69846	34	10.4940	0.49890	35	11.0000	0.46346	36	14.2120
37	15.0780	0.42354	38	16.1480	0.42354	39	16.7420	0.40854	40	17.5129
41	18.3991	0.34057	42	22.0000	0.34057	43	22.8690	0.29778	44	27.0930
45	29.4140	0.25274	46	39.5000	0.21757					0.28559

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. ; FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX ; FIGURE NO. 1268-B DIRECTION 1 DAMPING = 0.02 AT ELEVATION 830.00 FEET										SET NO. = 3
BROADENED SPECTRUM FOR MODE=1268										NO. OF SPECTRA = 1
		DEGREE OF FREEDOM =	NUMBER OF GRIDS =	DAMPING VALUE =						
1	0.9000	0.12824	2	0.9450	0.13288	3	1.0086	0.13288	4	1.0620
5	1.1250	0.17088	6	1.2905	0.17088	7	1.3590	0.22899	8	1.5807
9	1.6650	0.25562	10	1.7280	0.30568	11	1.8000	0.31260	12	1.8720
13	2.0749	0.36611	14	2.1420	0.37322	15	2.4796	0.37322	16	2.6460
17	2.9970	0.50324	18	3.4031	0.50324	19	3.4650	0.51857	20	4.0000
21	4.3000	0.89038	22	4.8706	0.89038	23	5.0040	0.92773	24	5.4630
25	5.6250	1.57026	26	6.8750	1.57026	27	6.9960	1.54580	28	7.0290
29	7.8210	0.72048	30	7.8540	0.68383	31	8.8880	0.66758	32	9.2730
33	10.3532	0.37940	34	14.2120	0.37940	35	16.1480	0.36486	36	16.7420
37	16.9916	0.33160	38	17.5120	0.33160	39	18.5460	0.26996	40	20.0310
41	20.5331	0.24920	42	22.8690	0.24920	43	27.0930	0.22163	44	29.4140
45	36.3000	0.17559	46	37.6411	0.17154	47	39.5000	0.17154	48	0.19511

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX;
FIGURE NO. 1269-B DIRECTION 1 DAMPING = 0.02
AT ELEVATION 807.00 FEET

JUST-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. ;										DAMPING = 0.02										SET NO. = 4																																																																																																															
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX ;										AT ELEVATION										NO. OF SPECTRA = 1																																																																																																															
FIGURE NO. 1269-B										DIRECTION 1										807.00 FEET																																																																																																															
BROADENED SPECTRUM FOR MODE=1269										DEGREE OF FREEDOM = 1										NUMBER OF GRIDS = 48										DAMPING VALUE =										0.02																																																																																											
1	0.9000	0.12606	2	0.9450	0.13093	3	1.0075	0.13093	4	1.0620	0.13093	5	1.1250	0.16567	6	1.1880	0.20940	11	1.8000	0.30059	12	1.8720	0.34368	13	2.1155	0.34368	14	2.1420	0.35049	15	2.5598	0.35049	16	2.5598	0.35049	17	2.9970	0.44932	18	3.5045	0.44932	19	3.7530	0.58651	20	3.9525	0.58651	21	4.0860	0.62570	22	4.1490	0.64230	23	4.8683	0.64230	24	5.0040	0.66947	25	5.6250	0.99474	26	6.8750	0.99474	27	6.9960	0.96800	28	7.0290	0.94286	29	7.1260	0.84593	30	7.3317	0.56932	31	8.8880	0.56932	32	9.1630	0.52233	33	10.2065	0.38615	34	13.9370	0.38615	35	14.2120	0.37644	36	14.6630	0.31618	37	15.1303	0.30041	38	16.1480	0.30041	39	16.7420	0.29164	40	17.0265	0.27604	41	17.5120	0.27604	42	18.0113	0.25200	43	22.8690	0.25200	44	27.0930	0.20271	45	29.5100	0.17475	46	36.3000	0.15211	47	36.3540	0.15180	48	39.5000	0.15180

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX;
FIGURE NO. 1270-B DIRECTION 1 DAMPING = 0.02
AT ELEVATION 778.00 FEET

TUSTI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. ;										DAMPING = 0.02		778.00 FEET		SET NO. = 5	
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX ;										AT ELEVATION		NO. OF SPECTRA = 1			
FIGURE NO. 1270-B										DIRECTION 1					
BROADENED SPECTRUM FOR MODE=1270										DEGREE OF FREEDOM =		NUMBER OF GRIDS = 45		DAMPING VALUE =	
1	0.9000	0.12748	2	0.9450	0.13297	3	1.0048	0.13297	4	1.0620	0.16896				
5	1.2938	0.16896	6	1.3230	0.18391	7	1.3590	0.22460	8	1.6259	0.22460				
9	1.7280	0.26315	10	1.8720	0.32100	11	2.2880	0.32100	12	2.3175	0.31748				
13	2.6970	0.31748	14	2.8170	0.34146	15	2.9970	0.36750	16	3.7470	0.36750				
17	3.7530	0.36890	18	4.5870	0.36890	19	4.6002	0.36442	20	5.3652	0.36442				
21	5.6250	0.39238	22	5.7240	0.41464	23	6.9960	0.41464	24	7.0290	0.40948				
25	7.0695	0.40061	26	7.8210	0.40061	27	8.8880	0.37318	28	9.1630	0.34638				
29	10.4940	0.30116	30	10.6176	0.29559	31	11.2050	0.29559	32	11.4030	0.32089				
33	13.9370	0.32089	34	14.2120	0.30004	35	14.6630	0.23416	36	14.8886	0.21994				
37	20.0310	0.21994	38	22.0000	0.21155	39	22.8690	0.18089	40	26.6993	0.11602				
41	29.4140	0.11602	42	31.2751	0.11009	43	35.4330	0.11009	44	36.0000	0.11013				
45	30.5000	0.11013													

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX;
FIGURE NO. 1266-B DIRECTION 2 DAMPING = 0.02
AT ELEVATION 873.33 FEET

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. ; FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY ; FIGURE NO. 1266-B																DAMPING = 0.02 AT ELEVATION		873.33 FEET		SET NO. = 6 NO. OF SPECTRA = 1	
BROADENED SPECTRUM FOR MODE=1266										DEGREE OF FREEDOM =		NUMBER OF GRIDS = 40		DAMPING VALUE =							
										2		40									
1	0.9000	0.09238	2	0.9450	0.09551	3	1.0043	0.09551	4	1.0620	0.12102										
5	1.1250	0.12610	6	1.2889	0.12610	7	1.3230	0.15334	8	1.3590	0.17341										
9	1.6607	0.17341	10	1.6650	0.17374	11	1.7280	0.20318	12	1.8000	0.2172										
13	1.8720	0.24015	14	2.1420	0.25331	15	2.3670	0.25610	16	2.5020	0.30611										
17	2.8170	0.38982	18	2.9970	0.45947	19	3.2130	0.46139	20	3.4650	0.56853										
21	3.9373	0.90551	22	4.5000	1.31049	23	5.1666	1.31049	24	5.6250	1.76904										
25	5.7240	1.91162	26	5.7510	1.92897	27	7.0290	1.92897	28	7.5505	1.55791										
29	9.2730	1.55191	30	10.4240	1.51883	31	11.0000	1.47082	32	16.7420	1.47082										
33	16.9621	1.41505	34	18.5460	1.41605	35	20.0310	1.33234	36	22.4690	0.88074										
37	27.0930	0.62552	38	29.4140	0.57033	39	36.3000	0.36400	40	39.5000	0.32395										

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX;
FIGURE NO. 1267-B DIRECTION 2 DAMPING = 0.02
AT ELEVATION 854.33 FEET

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. ;										DAMPING = 0.02										SET NO. = 7									
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY ;										AT ELEVATION 654.33 FEET										NO. OF SPECTRA = 1									
FIGURE NO 1267-B										DIRECTION 2																			

BROADENED SPECTRUM FOR NODE=1267				DEGREE OF FREEDOM =		NUMBER OF GRIDS = 40		DAMPING VALUE =	
				0.9450	0.09541	2	3	4	0.12118
1	0.9000	0.09228	2	1.2890	0.12642	7	7	8	0.17357
5	1.1250	0.12642	6	1.6650	0.17445	11	11	12	0.23222
9	1.6544	0.17157	10	2.1420	0.25550	15	15	16	0.31331
13	1.8720	0.24056	14	2.9970	0.47296	19	19	20	0.60318
17	2.8170	0.39834	18	4.5500	1.36245	23	23	24	1.76165
21	4.1000	0.99222	22	5.7510	1.91108	27	27	28	1.56509
25	5.7240	1.89750	26	10.4940	1.52161	31	31	32	1.42165
29	9.2730	1.56509	30	18.5460	1.32835	35	35	36	0.83722
33	17.1410	1.32835	34	29.4140	0.50744	39	39	40	0.30141
37	27.0930	0.55882	38						

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY; DAMPING = 0.02
FIGURE NO. 1268-B DIRECTION 2 AT ELEVATION 830.00 FEET

BROADENED SPECTRUM FOR NODE=1268				DEGREE OF FREEDOM =		NUMBER OF GRIDS = 39		DAMPING VALUE =			
1	0.9000	0.09169	2	0.9450	0.09488	3	1.0030	0.09488	4	1.0620	0.12019
5	1.1250	0.12557	6	1.2896	0.12557	7	1.3230	0.15164	8	1.3590	0.17236
9	1.6454	0.17236	10	1.7280	0.20061	11	1.8000	0.22863	12	1.8720	0.23578
13	2.1420	0.24886	14	2.3670	0.25364	15	2.5020	0.30397	16	2.8170	0.38419
17	2.9970	0.45867	18	3.2130	0.45867	19	3.4650	0.57464	20	3.9567	0.94528
21	4.1490	1.09452	22	4.5000	1.30799	23	5.2234	1.30799	24	5.6250	1.64344
25	5.7240	1.76592	26	5.7510	1.76988	27	7.0290	1.76988	28	7.5589	1.44759
29	10.4940	1.44759	30	11.0000	1.25326	31	16.7420	1.25326	32	17.1600	1.17234
33	17.5120	1.08239	34	20.0310	1.01442	35	22.8690	0.62225	36	27.0930	0.35969
37	29.4140	0.33268	38	36.3000	0.26310	39	39.5000	0.26129			

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY; DAMPING = 0.02
FIGURE NO. 1269-B DIRECTION 2 AT ELEVATION 807.00 FEET

BROADENED SPECTRUM FOR NODE=1269				DEGREE OF FREEDOM =		NUMBER OF GRIDS = 39		DAMPING VALUE =	
				0.9450	0.09541	2	3	4	0.11971
1	0.9000	0.09240	2	1.2893	0.12578	7	7	8	0.17257
5	1.1250	0.12578	6	1.6650	0.17283	11	11	12	0.22956
9	1.6619	0.17257	10	2.1420	0.25002	15	15	16	0.30399
13	1.8720	0.23645	14	2.9970	0.45419	19	19	20	0.56903
17	2.8170	0.38511	18	4.5000	1.28296	23	23	24	1.70272
21	4.1000	0.92883	22	5.7510	1.84360	27	27	28	1.48864
25	5.7240	1.83555	26	10.4940	1.44606	31	31	32	1.09797
29	9.2730	1.48864	30	18.5460	0.80801	35	35	36	0.51596
33	16.7420	1.09336	34	29.4140	0.27775	39	39		
37	27.0930	0.28031	38						

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY; DAMPING = 0.02
FIGURE NO. 1270-B DIRECTION 2 AT ELEVATION 776.00 FEET

BROADENED SPECTRUM FOR NODE = 1270				DEGREE OF FREEDOM =		NUMBER OF GRIDS = 39		DAMPING VALUE =	
				0.9450	0.09574	2	3	4	0.12004
1	0.9000	0.09307	2	1.2895	0.12553	7	7	8	0.17265
5	1.1250	0.12553	6	1.7280	0.19961	11	11	12	0.23505
9	1.6681	0.17265	10	2.3670	0.24922	15	15	16	0.37793
13	2.1420	0.24768	14	3.2130	0.44349	19	19	20	0.87853
17	2.9970	0.44335	18	5.1370	1.21608	23	23	24	1.75000
21	4.5000	1.21608	22	7.5018	1.51748	27	27	28	1.41315
25	7.0290	1.75000	26	11.8324	0.89240	31	31	32	0.89923
29	11.0000	1.08748	30	16.7420	0.81229	35	35	36	0.52082
33	15.2130	0.89923	34						

37 22.0000 0.32191 38 29.4140 0.27183 39 39.5000 0.25741

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;

SET NO. = 11

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

NO. OF SPECTRA = 1

FIGURE NO. 1266-B DIRECTION 3 AT ELEVATION 873.33 FEET

BROADENED SPECTRUM FOR NODE=1266

DEGREE OF FREEDOM = 3

NUMBER OF GRIDS = 47

DAMPING VALUE = 0.020

1	0.9000	0.12970	2	0.9450	0.13437	3	1.0066	0.13437	4	1.0620	0.17142
5	1.1250	0.18446	6	1.2985	0.18446	7	1.3230	0.20945	8	1.3590	0.24023
9	1.5729	0.24023	10	1.6650	0.27232	11	1.7280	0.34183	12	1.8000	0.34281
13	1.8720	0.39405	14	2.0876	0.39405	15	2.1420	0.40867	16	2.4019	0.40867
17	2.5020	0.46350	18	2.8170	0.52796	19	2.9970	0.65818	20	3.4650	0.79040
21	4.1000	1.23271	22	5.0535	1.23271	23	5.4630	1.77359	24	5.6250	2.18320
25	6.8750	2.18320	26	6.9960	2.17802	27	7.0169	2.14649	28	7.8210	2.14649
29	8.8541	1.12656	30	9.1630	1.12656	31	9.2730	1.11665	32	10.4940	0.86858
33	11.0000	0.66128	34	12.3200	0.41287	35	12.9021	0.38909	36	13.9370	0.38909
37	14.2120	0.37620	38	14.9949	0.37620	39	15.1740	0.38779	40	17.9622	0.38779
41	18.0000	0.38901	42	18.7110	0.40186	43	22.8690	0.40186	44	26.8150	0.25920
45	29.4140	0.25920	46	31.7795	0.24609	47	39.5000	0.24609			

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;

SET NO. = 12

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

NO. OF SPECTRA = 1

FIGURE NO. 1267-B DIRECTION 3 AT ELEVATION 854.33 FEET

BROADENED SPECTRUM FOR NODE=1267

DEGREE OF FREEDOM = 3

NUMBER OF GRIDS = 44

DAMPING VALUE = 0.020

1	0.9000	0.12858	2	0.9450	0.13358	3	1.0066	0.13358	4	1.0620	0.17010
5	1.1250	0.18005	6	1.2971	0.18005	7	1.3230	0.20449	8	1.3590	0.23683
9	1.5778	0.23683	10	1.6650	0.26651	11	1.7280	0.33036	12	1.8000	0.33434
13	1.8720	0.38232	14	2.0981	0.38232	15	2.1420	0.39230	16	2.4081	0.39230
17	2.5020	0.43828	18	2.8170	0.49762	19	2.9970	0.61584	20	3.4650	0.70790
21	4.1700	1.06871	22	5.0141	1.06871	23	5.4630	1.57561	24	5.6250	1.91613
25	6.8750	1.91613	26	6.9960	1.90630	27	7.0079	1.88918	28	7.8210	1.88918
29	8.8452	1.18736	30	9.1630	1.18736	31	9.2730	1.17391	32	11.0000	0.57259
33	12.0066	0.39885	34	13.9370	0.39885	35	14.2120	0.38417	36	14.6630	0.32357
37	14.8018	0.32357	38	15.1740	0.33099	39	18.5460	0.33099	40	19.5150	0.30258
41	22.8690	0.30258	42	27.0930	0.21615	43	29.4140	0.21559	44	39.5000	0.19890

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;

SET NO. = 13

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

NO. OF SPECTRA = 1

FIGURE NO. 1268-B DIRECTION 3 AT ELEVATION 830.00 FEET

BROADENED SPECTRUM FOR NODE=1268

DEGREE OF FREEDOM = 3

NUMBER OF GRIDS = 39

DAMPING VALUE = 0.020

1	0.9000	0.12693	2	0.9450	0.13220	3	1.0065	0.13220	4	1.0620	0.16798
5	1.1250	0.17349	6	1.2946	0.17349	7	1.3590	0.23153	8	1.5866	0.23153
9	1.6650	0.25723	10	1.7280	0.31222	11	1.8000	0.32014	12	1.8720	0.36448
13	2.1298	0.36448	14	2.1420	0.36651	15	2.4208	0.36651	16	2.5020	0.39841
17	2.8170	0.45089	18	2.9970	0.54271	19	3.4650	0.58250	20	4.1000	0.84128
21	5.0040	0.84128	22	5.6250	1.44005	23	6.8750	1.44005	24	6.9960	1.42424
25	7.0124	1.40497	26	7.8210	1.40497	27	8.3300	1.18036	28	10.4940	0.64834
29	11.9458	0.34993	30	14.2120	0.34993	31	14.7911	0.28855	32	16.7420	0.28855
33	18.5460	0.22904	34	18.7320	0.22629	35	22.8690	0.22629	36	27.0930	0.17351
37	29.4140	0.17192	38	32.5510	0.16835	39	39.5000	0.16835			

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;

SET NO. = 14

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

NO. OF SPECTRA = 1

FIGURE NO. 1269-B DIRECTION 3 AT ELEVATION 807.00 FEET

BROADENED SPECTRUM FOR NODE=1269				DEGREE OF FREEDOM =		NUMBER OF GRIDS = 41		DAMPING VALUE =	
				3	3	1.0058	0.13070	4	0.020
1	0.9000	0.12480	2	0.9450	0.13070	3	1.0058	4	0.16577
5	1.1250	0.16648	6	1.2906	0.16648	7	1.3590	8	0.22549
9	1.6650	0.24644	10	1.7280	0.29226	11	1.8000	12	0.34489
13	2.2680	0.34489	14	2.3182	0.34227	15	2.4560	16	0.35419
17	2.8170	0.40122	18	2.9970	0.47446	19	3.5005	20	0.60794
21	5.0040	0.60794	22	5.4630	0.70806	23	5.6250	24	0.87986
25	7.2120	1.00124	26	7.4970	1.02036	27	9.1630	28	0.87986
29	11.0000	0.39203	30	12.1280	0.27526	31	13.6950	32	0.77409
33	14.1358	0.27409	34	14.3280	0.28601	35	17.5120	36	0.25381
37	22.0000	0.25381	38	26.9677	0.15621	39	29.4140	40	0.14547
41	39.5000	0.14547							

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. ;										DAMPING = 0.02		SET NO. = 15	
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ ;										AT ELEVATION 778.00 FEET		NO. OF SPECTRA = 1	
FIGURE NO. 1270-B										DIRECTION 3			
BROADENED SPECTRUM FOR NODE=1270										DEGREE OF FREEDOM =		NUMBER OF GRIDS = 42	
1	0.9000	0.12885	2	0.9450	0.13445	3	1.0049	0.13445	4	1.0620	0.17049		
5	1.2940	0.17049	6	1.3230	0.18551	7	1.3590	0.22651	8	1.6260	0.22651		
9	1.7280	0.27064	10	1.8720	0.32356	11	2.2880	0.32356	12	2.3241	0.31932		
13	2.6892	0.31932	14	2.9970	0.37715	15	3.6630	0.37715	16	3.7249	0.36417		
17	4.5870	0.36417	18	4.6506	0.33057	19	5.2022	0.33057	20	5.4630	0.36890		
21	5.6250	0.42767	22	5.7240	0.43017	23	5.9819	0.43017	24	6.3990	0.54386		
25	6.5084	0.54386	26	7.2720	0.71136	27	8.8880	0.71136	28	9.1630	0.67936		
29	10.4940	0.28128	30	12.3200	0.23493	31	12.6334	0.23134	32	12.7089	0.23134		
33	13.2120	0.27016	34	13.6900	0.28176	35	14.0968	0.28176	36	14.3280	0.29939		
37	17.5120	0.29939	38	18.0448	0.26676	39	20.0310	0.26676	40	22.8690	0.15693		
41	27.0930	0.12329	42	39.5000	0.11160								

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. ; FLOOR RESPONSE SPECTRA FOR SSE ; COMPONENT AX ; DAMPING = 0.02 FIGURE NO. 1241-B DIRECTION 1 AT ELEVATION 873.33 FEET										SET NO. = 1
										NO. OF SPECTRA = 1
BROADENED SPECTRUM FOR MODE=1241										DAMPING VALUE = 0.020
1	0.9000	0.26319	2	0.9450	0.27237	3	1.0100	0.27237	4	1.0670
5	1.1250	0.35832	6	1.2926	0.35832	7	1.3590	0.47561	8	1.5741
9	1.6650	0.53973	10	1.7280	0.65956	11	1.8000	0.66681	12	1.8720
13	2.0533	0.77404	14	2.1420	0.81944	15	2.4119	0.81944	16	2.6460
17	2.8170	1.00485	18	2.9970	1.17880	19	3.3138	1.17880	20	3.4650
21	4.0500	1.98413	22	4.3000	2.46378	23	5.0642	2.46378	24	5.4630
25	5.6250	3.73090	26	6.8750	3.73090	27	6.9960	3.70296	28	7.0290
29	7.1280	3.23999	30	7.8210	2.13946	31	7.8540	2.01070	32	9.1369
33	9.2730	1.32487	34	10.4940	1.00842	35	11.0000	0.82365	36	11.3529
37	11.4030	0.77284	38	11.6280	0.83350	39	14.2120	0.83350	40	14.6630
41	14.7611	0.78368	42	16.1400	0.78368	43	16.7420	0.76972	44	17.1557
45	17.5120	0.68032	46	18.5460	0.59117	47	18.7320	0.59146	48	22.0000
49	22.8690	0.59003	50	35.0932	0.39445	51	39.5000	0.39445		

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. ; FLOOR RESPONSE SPECTRA FOR SSE ; COMPONENT AX ; DAMPING = 0.02 FIGURE NO. 1242-B DIRECTION 1 AT ELEVATION 854.33 FEET										SET NO. = 2
										NO. OF SPECTRA = 1
BROADENED SPECTRUM FOR MODE=1242										DAMPING VALUE = 0.020
1	0.9000	0.26057	2	0.9450	0.26993	3	1.0094	0.26993	4	1.0620
5	1.1250	0.35237	6	1.2916	0.35237	7	1.3590	0.46980	8	1.5772
9	1.6650	0.52996	10	1.7280	0.64166	11	1.8000	0.65286	12	1.8720
13	2.0609	0.75512	14	2.1420	0.79364	15	2.4201	0.79364	16	2.6170
17	2.9970	1.11600	18	3.3477	1.11600	19	3.4650	1.18588	20	4.1500
21	4.4500	2.16790	22	5.0478	2.16790	23	5.4630	3.12943	24	5.6250
25	6.8750	3.27195	26	6.9960	3.23597	27	7.0290	3.20254	28	7.1280
29	7.8210	1.79824	30	7.8540	1.68453	31	9.1199	1.27372	32	9.2730
33	11.0000	0.68458	34	11.2963	0.68458	35	11.4030	0.71255	36	11.6280
37	14.2120	0.74038	38	14.6630	0.71257	39	14.8442	0.70079	40	16.1480
41	17.5120	0.65048	42	18.5051	0.54208	43	22.0000	0.54208	44	27.0930
45	29.4140	0.39705	46	39.5000	0.33919					0.40520

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. ; FLOOR RESPONSE SPECTRA FOR SSE ; COMPONENT AX ; DAMPING = 0.02 FIGURE NO. 1243-B DIRECTION 1 AT ELEVATION 830.00 FEET										SET NO. = 3
										NO. OF SPECTRA = 1
BROADENED SPECTRUM FOR MODE=1243										DAMPING VALUE = 0.020
1	0.9000	0.25602	2	0.9450	0.26554	3	1.0083	0.26554	4	1.0620
5	1.1250	0.34123	6	1.2897	0.34123	7	1.3590	0.45919	8	1.5848
9	1.6650	0.51011	10	1.7280	0.60965	11	1.8000	0.62733	12	1.8720
13	2.0764	0.71559	14	2.1420	0.74507	15	2.4916	0.74507	16	2.6460
17	2.9970	1.00296	18	3.4673	1.00296	19	4.0000	1.44988	20	4.1490
21	5.0382	1.64721	22	5.4630	2.22977	23	5.6250	2.35059	24	6.8750
25	6.9960	2.30731	26	7.0290	2.26209	27	7.1280	1.96940	28	7.7521
29	8.8880	1.27172	30	9.2730	1.10561	31	10.4940	0.63220	32	10.5562
33	13.6950	0.41801	34	13.9370	0.61282	35	14.2120	0.60583	36	14.3481
37	16.1480	0.60149	38	16.7420	0.57981	39	16.9550	0.55525	40	17.5120
41	18.5460	0.42917	42	20.6951	0.39915	43	22.8690	0.39915	44	27.0930

45 29.4140 0.30451 46 39.5000 0.28426

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.02
FIGURE NO. 1244-B DIRECTION 1 AT ELEVATION 807.00

SET NO. = 4
NO. OF SPECTRA = 1

BROADBENED SPECTRUM FOR MODE=1244												
	1	0.9000	0.25189	2	0.9450	0.26182	3	1.0073	0.26182	4	1.0620	0.32846
	5	1.1250	0.33031	6	1.2874	0.33031	7	1.3590	0.44982	8	1.5887	0.44982
	9	1.6110	0.45506	10	1.7280	0.51973	11	1.8000	0.60256	12	1.8720	0.68696
	13	2.0960	0.68696	14	2.1420	0.70165	15	2.5694	0.70166	16	2.6460	0.71765
	17	2.9973	0.89731	18	3.5278	0.89731	19	3.7530	1.13688	20	4.0183	1.13688
	21	4.1490	1.20791	22	5.0503	1.20791	23	5.4630	1.45774	24	5.6250	1.52881
	25	6.8750	1.52881	26	6.9960	1.47541	27	7.0290	1.42785	28	7.1280	1.25304
	29	7.6859	1.05300	30	8.8880	1.05300	31	10.3936	0.58460	32	11.2184	0.58460
	33	11.4030	0.62883	34	13.9370	0.62883	35	14.2120	0.60173	36	14.6630	0.51565
	37	14.6733	0.51483	38	16.1480	0.51483	39	16.7420	0.49511	40	16.9853	0.47655
	41	17.5120	0.47655	42	18.1653	0.40963	43	22.8690	0.40963	44	29.4140	0.29248
	45	36.3000	0.25416	46	37.6992	0.24363	47	39.5000	0.24363			

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.02
FIGURE NO. 1245-B DIRECTION 1 AT ELEVATION 778.00 FEET

SET NO. = 5
NO. OF SPECTRA = 1

BROADBENED SPECTRUM FOR MODE=1245											
		DEGREE OF FREEDOM =		1		NUMBER OF GRIDS = 46		DAMPING VALUE =		0.020	
1	0.9000	0.25484	2	0.9450	0.26584	3	1.0048	0.26584	4	1.0620	0.33766
5	1.2918	0.33766	6	1.3230	0.36745	7	1.3590	0.44892	8	1.6259	0.44892
9	1.7280	0.53658	10	1.8720	0.64224	11	2.2880	0.64224	12	2.3218	0.63423
13	2.6960	0.63423	14	2.8170	0.68349	15	2.9970	0.73545	16	3.6630	0.73545
17	3.6796	0.72798	18	4.5870	0.72798	19	4.6019	0.71727	20	5.3504	0.71727
21	5.7240	0.81034	22	6.9960	0.81034	23	7.0290	0.79901	24	7.0695	0.78015
25	7.8210	0.78015	26	8.8880	0.72521	27	9.1630	0.68036	28	10.4940	0.58342
29	11.0000	0.58029	30	11.3470	0.54029	31	11.4030	0.54734	32	13.9370	0.54734
33	14.2120	0.51975	34	14.6630	0.43440	35	15.3849	0.39482	36	17.5120	0.39482
37	18.5460	0.39253	38	20.0310	0.38291	39	22.0000	0.36926	40	22.8690	0.32167
41	26.6227	0.21377	42	29.4140	0.21377	43	33.4660	0.19942	44	35.4330	0.19942
45	36.0000	0.20025	46	39.5000	0.20025						

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.02
FIGURE NO. 1241-B DIRECTION 2 AT ELEVATION 873.33 FEET

SET NO. = 6
NO. OF SPECTRA = 1

BROADBENED SPECTRUM FOR MODE=1241											
	1	0.9000	0.18543	2	0.9450	0.19127	3	1.0037	0.19127	39	DAMPING VALUE =
	5	1.1250	0.25544	6	1.2887	0.25144	7	1.3230	0.30587	4	1.0620
	9	1.6610	0.34652	10	1.6613	0.34634	11	1.6650	0.34634	8	1.3590
	13	1.8000	0.46276	14	1.8720	0.47872	15	2.1420	0.50536	12	1.7280
	17	2.5020	0.60840	18	2.8170	0.71662	19	2.9970	0.91110	16	2.3670
	21	4.0000	1.75387	22	4.5000	2.53223	23	5.1527	0.91110	20	3.2164
	25	5.1240	3.70798	26	5.7510	3.73272	27	7.0290	3.73221	24	5.6250
	29	9.2730	2.89502	30	10.4940	2.75404	31	11.0000	2.54600	28	7.6469
	33	17.1734	2.35321	34	18.5460	2.35321	35	20.0310	2.22381	32	16.7420
	37	29.4140	0.96509	38	36.3000	0.61105	39	39.5000	0.54729	36	22.8690
											1.51024

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ; DAMPING = 0.02
FIGURE NO. 1242-B DIRECTION 2 AT ELEVATION 854.33 FEET

SET NO. = 7
NO. OF SPECTRA = 1

BROADBANDING SPECTRUM FOR NOME = 12%2	DEGREE OF FREEDOM =	NUMBER OF GRIDS =	DAMPING VALUE =	0.020
1 0.5000	0.9450	1.0035	4 1.0620	0.24131
5 1.1250	1.2886	1.3230	8 1.3590	0.34681
9 1.4611	1.6650	1.7280	12 1.6000	0.46374
13 1.8120	2.1420	2.3670	16 2.5020	0.62128
17 2.2870	2.9970	3.2130	20 4.1300	1.91117
21 4.6500	5.1061	5.6250	24 5.1240	3.68075
25 5.7510	7.0290	7.6231	28 9.2730	2.90404
29 10.4940	11.0000	16.7620	32 17.1600	2.28094
33 17.3006	18.5460	20.0310	36 22.8690	1.42923
37 27.0913	30.3000	39.5000		

PULSE-DEFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;

[illegible]

10151-REFINE RESPONSE SPECTRA FOR ELECTRICAL BLDG.;

LOW FREQUENCY SPECTRA FOR FIGURE NO. 1244-B		DIRECTION 2		AT ELEVATION		807.00 FEET		NO. OF SPECTRA = 1	
DOWN GRADED SPECTRUM FOR MODE = 1244		DEGREE OF FREEDOM =		NUMBER OF GRIDS =		DAMPING VALUE =		0.020	
1	2	0.9459	0.19084	1	1.0081	4	1.0620	0.24056	
3	0.9203	0.18517	0.19084	3	1.0081	8	1.3590	0.34485	
5	1.1256	0.25051	0.19084	7	1.2310	12	1.7280	0.39997	
6	0.25051	0.19084	0.19084	11	1.6650	16	2.3670	0.50211	
10	0.39485	0.34368	0.19084	15	2.1820	20	3.2130	0.69817	
14	0.45809	0.41155	0.19084	19	2.9970	24	5.6250	3.29816	
18	0.60383	0.56540	0.19084	23	5.1642	28	9.2730	2.77035	
22	1.19103	2.48216	0.19084	27	7.6319	32	15.2130	1.99132	
26	3.42336	3.42336	0.19084	31	12.4470	36	22.0000	0.87126	
25	5.7240	3.42336	0.19084	35	20.0310				
29	10.4940	2.62081	0.19084	39	39.5000				
30	1.88876	1.88876	0.19084						
33	16.7420	16.7420	0.19084						
37	27.0930	27.0930	0.19084						

INST.-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;

[illegible]

33 16.7420 1.40738 34 17.1600 1.30073 35 17.5120 1.21250 36 18.5460 0.91294
 37 20.0310 0.70422 38 22.8690 0.54242 39 39.5000 0.48133

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ; DAMPING = 0.02
 FIGURE NO. 1241-B DIRECTION 3 AT ELEVATION 873.33 FEET SET NO. = 11
 NO. OF SPECTRA = 1

BROADBAND SPECTRUM FOR MODE=1241
 1 0.9030 0.25912 2 0.9450 0.26919 3 1.0069 0.26919 4 1.0620 0.34198
 5 1.1250 0.36697 6 1.2979 0.36697 7 1.3230 0.41693 8 1.3590 0.47956
 9 1.5733 0.47956 10 1.6650 0.54381 11 1.7280 0.68042 12 1.8000 0.68626
 13 1.8720 0.78549 14 2.0869 0.78549 15 2.1420 0.81421 16 2.4001 0.81421
 17 2.5020 0.92096 18 2.8170 1.05137 19 3.5390 1.52715 20 4.1300 2.31855
 21 5.1098 2.31855 22 5.4630 2.98458 23 5.6250 3.23958 24 7.8210 3.23958
 25 8.8880 2.07557 26 9.1630 1.97107 27 9.2730 1.92765 28 11.0000 1.19182
 29 12.3200 0.70092 30 12.6449 0.68023 31 13.9370 0.68023 32 14.2120 0.66528
 33 14.4068 0.62811 34 17.6859 0.62811 35 18.0000 0.64283 36 22.0000 0.64283
 37 22.8690 0.63427 38 26.8038 0.42090 39 29.4140 0.42090 40 32.4456 0.39637
 41 39.5000 0.39637

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ; DAMPING = 0.02
 FIGURE NO. 1242-B DIRECTION 3 AT ELEVATION 854.33 FEET SET NO. = 12
 NO. OF SPECTRA = 1

BROADBAND SPECTRUM FOR MODE=1242
 1 0.9000 0.25687 2 0.9450 0.26697 3 1.0064 0.26697 4 1.0620 0.33944
 5 1.1250 0.35842 6 1.2965 0.35842 7 1.3590 0.47290 8 1.5780 0.47290
 9 1.6650 0.53237 10 1.7280 0.65741 11 1.8000 0.66863 12 1.8720 0.76283
 13 2.0983 0.76283 14 2.1420 0.78226 15 2.4061 0.78226 16 2.5020 0.87163
 17 2.6460 0.88866 18 2.8170 0.99248 19 3.5600 1.36930 20 4.1300 2.02006
 21 5.0662 2.02006 22 5.6250 2.84711 23 7.7200 2.84711 24 8.7000 2.06973
 25 11.0000 1.05960 26 12.0012 0.69619 27 13.9370 0.69619 28 14.2120 0.65338
 29 14.6630 0.55690 30 15.2570 0.54004 31 15.8912 0.53337 32 18.5460 0.53337
 33 19.4257 0.49802 34 22.0000 0.49802 35 22.8690 0.48057 36 27.0492 0.35253
 37 29.4140 0.35253

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ; DAMPING = 0.02
 FIGURE NO. 1243-B DIRECTION 3 AT ELEVATION 830.00 FEET SET NO. = 13
 NO. OF SPECTRA = 1

BROADBAND SPECTRUM FOR MODE=1243
 1 0.9000 0.25356 2 0.9450 0.26415 3 1.0065 0.26415 4 1.0620 0.33534
 5 1.1250 0.34580 6 1.2936 0.34580 7 1.3590 0.46208 8 1.5861 0.46208
 9 1.6650 0.51314 10 1.7280 0.62195 11 1.8000 0.64056 12 1.8720 0.72753
 13 2.1281 0.72753 14 2.1420 0.73227 15 2.4264 0.73227 16 2.5020 0.79295
 17 2.8170 0.90153 18 3.4650 1.13197 19 4.1700 1.60034 20 5.0080 1.60034
 21 5.6250 2.21459 22 6.8750 2.21459 23 7.0871 2.14472 24 7.8210 2.14472
 25 8.3300 2.05539 26 8.4300 1.99642 27 11.0000 0.95925 28 11.9711 0.61432
 29 13.9370 0.61432 30 14.2120 0.58341 31 14.9957 0.47677 32 16.7420 0.47677
 33 17.5120 0.44048 34 20.0310 0.36944 35 22.8690 0.36804 36 27.0930 0.28378
 37 39.5000 0.27831

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ; DAMPING = 0.02
 FIGURE NO. 1244-B DIRECTION 3 AT ELEVATION 807.00 FEET SET NO. = 14
 NO. OF SPECTRA = 1

BROADBAND SPECTRUM FOR MODE=1244
 DIRECTION 3 DEGREE OF FREEDOM = 3 NUMBER OF GRIDS = 38 DAMPING VALUE = 0.020

1	0.9000	0.25015	2	0.9450	0.26098	3	1.0062	0.26098	4	1.0620	0.33062
5	1.1250	0.33180	6	1.2898	0.33180	7	1.3590	0.45064	8	1.5962	0.45064
9	1.6650	0.49179	10	1.7280	0.58377	11	1.8000	0.60814	12	1.8720	0.68832
13	2.2880	0.68832	14	2.3031	0.68574	15	2.4616	0.68574	16	2.5020	0.70558
17	2.8170	0.80586	18	2.9970	0.94336	19	3.5208	0.94336	20	3.9000	1.16652
21	4.5870	1.16652	22	5.6250	1.49828	23	6.8312	1.49828	24	7.2720	1.79701
25	8.8880	1.79701	26	10.4940	0.94047	27	11.0000	0.72960	28	12.2234	0.50290
29	13.6950	0.50290	30	13.9787	0.47951	31	16.7420	0.47951	32	17.5120	0.47935
33	18.2647	0.44379	34	20.0310	0.44379	35	22.0000	0.44213	36	27.0930	0.27846
37	29.4140	0.27843	38	39.5000	0.25564						

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BUDG.;
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ; DAMPING = 0.02
 FIGURE NO. 1245-B

SET NO. = 15

BROADENED SPECTRUM FOR NODE=1245				DIRECTION 3		AT ELEVATION 778.00 FEET		NO. OF SPECTRA = 1	
				DEGREE OF FREEDOM =	NUMBER OF GRIDS = 35	DAMPING VALUE =			
1	0.9000	0.25681	2	0.9450	0.26854	3	1.0049	0.26854	0.020
5	1.2940	0.34057	6	1.3230	0.37054	7	1.3590	0.45300	0.34057
9	1.7280	0.54003	10	1.8720	0.64638	11	2.2880	0.64638	0.45300
13	2.6907	0.63765	14	2.9970	0.75206	15	5.4630	0.75206	0.63765
17	5.7240	0.85359	18	6.0049	0.85359	19	6.3990	1.04248	0.84681
21	8.8880	1.29759	22	9.1630	1.21600	23	10.4940	0.54550	1.29759
25	13.2120	0.50290	26	13.8365	0.50290	27	14.3280	0.51875	0.50290
29	18.2949	0.46659	30	20.0310	0.46659	31	22.8690	0.27760	0.51875
33	29.4140	0.21906	34	38.9540	0.20484	35	39.5000	0.20484	0.27760
									0.22198

TUSTI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. 1									
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.03									
FIGURE NO. 1246-B DIRECTION 1 AT ELEVATION 873.33 FEET									
BROADENED SPECTRUM FOR NODE=1246									
1	2	3	4	5	6	7	8	9	10
0.9000	0.24703	0.9450	0.25630	1.3590	0.38434	1.4097	0.38434	1.4097	0.25630
1.2870	0.33261	1.3590	0.38434	1.4097	0.38434	1.4097	0.38434	1.4097	0.25630
1.5030	0.43341	1.5760	0.43341	1.7280	0.55228	2.3670	0.71342	2.5020	0.56281
1.8720	0.63757	2.0548	0.63757	2.3670	0.71342	2.5020	0.56281	2.71915	0.71915
2.6460	0.79854	2.9970	0.96597	3.2130	0.98598	3.4650	1.19596	3.60089	1.19596
4.0000	1.67787	4.3000	2.11812	5.0426	2.11812	5.4630	3.00089	5.4630	3.00089
5.6250	3.08721	6.8750	3.08721	6.9960	3.07572	7.0290	3.03735	7.0290	3.03735
7.8210	1.81080	9.2730	1.12587	11.6302	0.70909	14.2120	0.70909	14.2120	0.70909
14.2214	0.70900	16.1480	0.70900	16.7420	0.69281	17.5120	0.61552	17.5120	0.61552
19.7026	0.54140	22.8690	0.54140	35.4144	0.38735	39.5000	0.38735	39.5000	0.38735

TUSTI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. 2									
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.03									
FIGURE NO. 1247-B DIRECTION 1 AT ELEVATION 854.33 FEET									
BROADENED SPECTRUM FOR NODE=1247									
1	2	3	4	5	6	7	8	9	10
0.9000	0.24452	0.9450	0.25392	1.3590	0.38006	1.4108	0.38006	1.4108	0.25392
1.2870	0.32841	1.3590	0.38006	1.4108	0.38006	1.4108	0.38006	1.4108	0.25392
1.5030	0.42483	1.5758	0.42483	1.7280	0.53989	2.3670	0.68804	2.5187	0.55188
1.8720	0.62088	2.0598	0.62088	2.3670	0.68804	2.5187	0.55188	2.71915	0.68804
2.6460	0.76059	2.9970	0.91088	3.2130	0.92581	3.4650	1.09884	3.60089	1.09884
4.0000	1.51493	4.3500	1.86523	5.0350	1.86523	5.4630	2.62730	5.4630	2.62730
5.6250	2.70854	6.8750	2.70854	6.9960	2.67018	7.0290	2.65440	7.0290	2.65440
7.8210	1.53834	9.2730	1.10225	11.6302	0.88597	14.2120	0.88597	14.2120	0.88597
14.2214	0.62911	16.1480	0.62911	17.5120	0.63945	18.5460	0.63945	18.5460	0.63945
19.7026	0.49017	22.8690	0.49017	35.4140	0.38345	39.5000	0.38345	39.5000	0.38345

TUSTI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. 3									
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.03									
FIGURE NO. 1248-B DIRECTION 1 AT ELEVATION 830.00 FEET									
BROADENED SPECTRUM FOR NODE=1248									
1	2	3	4	5	6	7	8	9	10
0.9000	0.24003	0.9450	0.24998	1.3590	0.37213	1.4130	0.37213	1.4130	0.24998
1.2870	0.32057	1.3590	0.37213	1.4130	0.37213	1.4130	0.37213	1.4130	0.24998
1.5030	0.40905	1.5763	0.40905	1.7280	0.51140	2.3670	0.63865	2.5366	0.52968
1.8720	0.59151	2.0831	0.59151	2.3670	0.63865	2.5366	0.63865	2.71915	0.63865
2.6460	0.68998	2.9970	0.81033	3.2130	0.81634	3.4650	0.93054	3.60089	0.93054
4.0000	1.22761	4.3500	1.22761	4.0860	1.38406	4.4900	1.41581	4.4900	1.41581
5.6250	1.41581	6.8750	1.88047	5.6250	1.94211	6.8750	1.94211	6.8750	1.94211
7.8210	1.90136	9.2730	1.88200	7.8035	1.02947	8.8880	1.02947	8.8880	1.02947
14.2214	0.94335	16.1480	0.57279	10.5826	0.55173	13.6950	0.55173	13.6950	0.55173
19.7026	0.53968	22.8690	0.53968	39.5120	0.48744	40.0005	0.48744	40.0005	0.48744
20.6041	0.37277	22.8690	0.37277	27.0930	0.32915	29.4140	0.32915	29.4140	0.32915
39.5000	0.27727	22.8690	0.27727	43	0.32915	43	0.32915	43	0.32915

TUSTI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. 4

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.03
FIGURE NO. 1249-B DIRECTION 1 AT ELEVATION 807.00 FEET

BROADENED SPECTRUM FOR MODE=1249				DIRECTION 1				NO. OF SPECTRA = 1			
FIGURE NO.	1249-B	DIRECTION	1	DEGREE OF FREEDOM =	1	NUMBER OF GRIDS =	43	DAMPING VALUE =	0.030	SET NO. =	5
1	0.9000	0.23595	2	0.9450	0.24634	3	1.0021	0.24634	0.29025		
5	1.2870	0.31334	6	1.3590	0.36425	7	1.4490	0.38174	0.39448		
9	1.5734	0.39448	10	1.8720	0.56408	11	2.1730	0.56408	0.57656		
13	2.3670	0.59269	14	2.5477	0.59269	15	2.8170	0.67803	0.71764		
17	3.2315	0.71764	18	3.4650	0.71583	19	3.7530	0.96377	0.96377		
21	4.0860	1.02015	22	4.4690	1.03925	23	5.1086	1.03925	1.21806		
25	5.6250	1.25870	26	6.8750	1.25870	27	6.9960	1.22309	1.19618		
29	7.1280	1.08077	30	7.7485	0.88595	31	8.8980	0.88595	0.52774		
33	12.3200	0.52774	34	14.2120	0.50022	35	14.7090	0.45899	0.45899		
37	17.5120	0.41662	38	17.9815	0.37942	39	22.8690	0.37942	0.27443		
41	36.3000	0.24607	42	38.4444	0.23446	43	39.5000	0.23446			

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.03
FIGURE NO. 1250-B DIRECTION 1 AT ELEVATION 778.00 FEET

BROADENED SPECTRUM FOR MODE=1250				DIRECTION 1				NO. OF SPECTRA = 1			
FIGURE NO.	1250-B	DIRECTION	1	DEGREE OF FREEDOM =	1	NUMBER OF GRIDS =	40	DAMPING VALUE =	0.030	SET NO. =	5
1	0.9000	0.23832	2	0.9450	0.24998	3	0.9990	0.25094	0.29865		
5	1.2870	0.31135	6	1.3590	0.36459	7	1.5030	0.37768	0.39282		
9	1.6650	0.42416	10	1.8720	0.52639	11	2.2319	0.52639	0.53077		
13	2.6781	0.53077	14	2.8170	0.58252	15	2.9970	0.59209	0.59209		
17	3.7530	0.61984	18	4.5870	0.61984	19	4.5917	0.61756	0.61756		
21	5.4225	0.58569	22	5.4630	0.58569	23	5.6250	0.63926	0.66739		
25	6.9960	0.66739	26	7.8210	0.66060	27	8.8880	0.61261	0.57252		
29	10.8892	0.47017	30	12.3200	0.47017	31	13.6950	0.46030	0.45827		
33	14.2120	0.43746	34	15.1898	0.35424	35	18.5460	0.35424	0.32265		
37	26.9771	0.20358	38	29.4140	0.20358	39	35.0148	0.19016	0.19016		

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.03
FIGURE NO. 1246-B DIRECTION 2 AT ELEVATION 873.33 FEET

BROADENED SPECTRUM FOR MODE=1246				DIRECTION 2				NO. OF SPECTRA = 1			
FIGURE NO.	1246-B	DIRECTION	2	DEGREE OF FREEDOM =	2	NUMBER OF GRIDS =	37	DAMPING VALUE =	0.030	SET NO. =	6
1	0.9000	0.17357	2	0.9450	0.17835	3	0.9990	0.17915	0.21225		
5	1.1250	0.22000	6	1.2282	0.22000	7	1.2870	0.23168	0.27139		
9	1.3590	0.29046	10	1.5101	0.29046	11	1.6650	0.31517	0.39303		
13	2.3670	0.47067	14	2.8170	0.61225	15	2.9970	0.78117	0.82119		
17	3.4650	0.97974	18	3.9000	1.41754	19	4.5000	2.11720	2.11720		
21	5.7240	2.90304	22	7.0290	2.90304	23	7.7425	2.38792	2.38792		
25	9.2730	2.38155	26	10.4940	2.22496	27	13.6980	2.23942	2.23942		
29	17.1600	2.09566	30	17.4459	1.97038	31	18.5460	1.97038	1.92769		
33	22.8690	1.34127	34	27.0930	0.97924	35	29.4140	0.88696	0.59772		
37	39.5000	0.54130									

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.03
FIGURE NO. 1247-B DIRECTION 2 AT ELEVATION 854.33 FEET

BROADENED SPECTRUM FOR MODE=1247				DIRECTION 2				NO. OF SPECTRA = 1			
FIGURE NO.	1247-B	DIRECTION	2	DEGREE OF FREEDOM =	2	NUMBER OF GRIDS =	38	DAMPING VALUE =	0.030	SET NO. =	7
1	0.9000	0.17363	2	0.9450	0.17844	3	0.9990	0.17944	0.21248		
5	1.1250	0.22046	6	1.2279	0.22046	7	1.2870	0.23227	0.27171		
9	1.3590	0.29090	10	1.5380	0.29090	11	1.5480	0.29139	0.31626		
13	1.8000	0.39397	14	2.3670	0.47667	15	2.8170	0.68623	0.80338		
17	3.2130	0.85561	18	3.4650	1.03291	19	4.0000	1.54879	2.19840		

21	5.1258	2.19840	22	5.7240	2.88000	23	7.0290	2.88000	24	7.6919	2.40854
25	8.8880	2.40854	26	9.1630	2.40662	27	10.4940	2.23896	28	13.6980	2.15398
29	16.7420	2.15398	30	17.1600	2.00484	31	17.5120	1.86769	32	18.5460	1.86400
33	20.0310	1.84240	34	22.8690	1.27078	35	27.0930	0.87570	36	29.4140	0.80021
37	36.3000	0.55185	38	39.5000	0.52802						

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.; SET NO. = 8
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.03
FIGURE NO. 1248-B DIRECTION 2 AT ELEVATION 830.00 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1248				DEGREE OF FREEDOM = 2		NUMBER OF GRIDS = 35		DAMPING VALUE = 0.030			
1	0.9000	0.17244	2	0.9450	0.17732	3	0.9990	0.17867	4	1.0620	0.21089
5	1.1250	0.21881	6	1.2296	0.21881	7	1.2870	0.22924	8	1.3230	0.26875
9	1.3590	0.28877	10	1.5552	0.28877	11	1.6650	0.31261	12	1.8000	0.38762
13	2.3670	0.46506	14	2.6460	0.59007	15	2.9970	0.77021	16	3.2130	0.81955
17	3.4650	0.98310	18	4.0000	1.47654	19	4.6000	2.11145	20	5.1456	2.11145
21	5.7240	2.67456	22	7.0290	2.67456	23	7.6964	2.19442	24	8.8880	2.19442
25	9.1630	2.18583	26	10.4940	2.13495	27	11.0000	1.87796	28	16.7420	1.87796
29	17.1600	1.78321	30	18.5460	1.48282	31	20.0310	1.47396	32	22.0000	1.03841
33	22.8690	0.96732	34	27.0930	0.58115	35	39.5000	0.48477			

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.; SET NO. = 9
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.03
FIGURE NO. 1249-B DIRECTION 2 AT ELEVATION 807.00 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1249				DEGREE OF FREEDOM = 2		NUMBER OF GRIDS = 38		DAMPING VALUE = 0.030			
1	0.9000	0.17344	2	0.9450	0.17793	3	0.9990	0.17876	4	1.0620	0.21192
5	1.1250	0.21917	6	1.2271	0.21917	7	1.2870	0.23036	8	1.3230	0.26931
9	1.3590	0.28906	10	1.5625	0.28906	11	1.6110	0.29065	12	1.8000	0.38874
13	2.3670	0.46445	14	2.8170	0.66277	15	2.9970	0.76973	16	3.2130	0.81514
17	3.4650	0.97906	18	4.0000	1.45097	19	4.6000	2.07868	20	5.1032	2.07868
21	5.7240	2.77536	22	7.0290	2.77536	23	7.6973	2.29804	24	8.8880	2.29804
25	9.1630	2.29097	26	10.4940	2.12720	27	11.0000	1.75570	28	11.4230	1.65001
29	13.2120	1.65001	30	13.6980	1.65773	31	16.7420	1.65773	32	17.1600	1.56552
33	18.5460	1.18336	34	20.0310	1.10920	35	22.0000	0.77532	36	27.0930	0.51508
37	29.4140	0.51102	38	39.5000	0.48706						

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.; SET NO. = 10
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.03
FIGURE NO. 1250-B DIRECTION 2 AT ELEVATION 778.00 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1250				DEGREE OF FREEDOM = 2		NUMBER OF GRIDS = 37		DAMPING VALUE = 0.030			
1	0.9000	0.17457	2	0.9450	0.17850	3	0.9990	0.17959	4	1.0620	0.21166
5	1.1250	0.21868	6	1.2282	0.21868	7	1.2870	0.22902	8	1.3230	0.26901
9	1.3590	0.28895	10	1.5517	0.28895	11	1.6650	0.31289	12	1.8000	0.38666
13	2.3670	0.45794	14	2.6460	0.58093	15	2.9970	0.75088	16	3.2130	0.79191
17	3.4650	0.94929	18	4.0000	1.37621	19	4.6000	1.97403	20	5.0651	1.77403
21	5.7240	2.76480	22	7.0290	2.76480	23	7.6666	2.32276	24	8.8880	2.32276
25	9.1630	2.31791	26	10.4940	2.07548	27	11.0000	1.70536	28	11.9717	1.37483
29	14.2120	1.37483	30	15.2130	1.32199	31	16.1480	1.27141	32	16.7420	1.23683
33	17.1600	1.17283	34	18.5460	0.84422	35	20.0310	0.63931	36	22.8690	0.53879
37	39.5000	0.48067									

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.; SET NO. = 11
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ; DAMPING = 0.03
FIGURE NO. 1246-B DIRECTION 3 AT ELEVATION 873.33 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1246			DEGREE OF FREEDOM = 3			NUMBER OF GRIDS = 38		DAMPING VALUE = 0.030			
1	0.9000	0.24266	2	0.9450	0.25337	3	1.0019	0.25337	4	1.0620	0.30306
5	1.2870	0.33062	6	1.3590	0.38964	7	1.4251	0.38964	8	1.4490	0.40996
9	1.5030	0.43294	10	1.5710	0.43294	11	1.6650	0.49400	12	1.7280	0.57648
13	1.8000	0.58119	14	1.8720	0.64722	15	2.0345	0.64722	16	2.0430	0.65140
17	2.3670	0.72411	18	2.6460	0.89236	19	2.8170	0.89746	20	2.9970	1.09118
21	3.2130	1.25100	22	3.4650	1.38166	23	4.1700	1.91937	24	5.0750	1.91937
25	5.6250	2.73102	26	7.8210	2.73102	27	8.8880	1.73262	28	12.3200	0.66624
29	13.9370	0.61828	30	14.2120	0.60263	31	14.3912	0.58033	32	18.5460	0.58033
33	18.9011	0.56982	34	22.8690	0.56982	35	26.8717	0.41322	36	29.4140	0.41322
37	32.7514	0.38923	38	39.5000	0.38923						

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.03
FIGURE NO. 1247-B DIRECTION 3 AT ELEVATION 854.33 FEET SET NO. = 12
NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1247				DEGREE OF FREEDOM = 3		NUMBER OF GRIDS = 40		DAMPING VALUE = 0.030			
1	0.9000	0.24064	2	0.9450	0.25120	3	1.0009	0.25120	4	1.0620	0.30080
5	1.2870	0.32597	6	1.3590	0.38424	7	1.4249	0.38424	8	1.4490	0.40235
9	1.5030	0.42379	10	1.5720	0.42379	11	1.6650	0.48290	12	1.7280	0.55606
13	1.8000	0.56604	14	1.8720	0.62850	15	2.0401	0.62850	16	2.0430	0.62972
17	2.3670	0.69195	18	2.6460	0.83073	19	2.8170	0.83565	20	2.9970	1.00684
21	3.2130	1.14604	22	3.4650	1.24190	23	4.1700	1.68698	24	5.0464	1.68698
25	5.6250	2.39598	26	7.8210	2.39598	27	8.8880	1.71677	28	9.1630	1.68451
29	12.2213	0.59214	30	13.9370	0.59214	31	14.2120	0.57671	32	15.2570	0.50316
33	16.6954	0.49361	34	18.5460	0.49361	35	20.0310	0.45235	36	22.0000	0.45003
37	22.8690	0.44391	38	27.0930	0.34816	39	29.4140	0.34545	40	39.5000	0.32446

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.03
FIGURE NO. 1248-B DIRECTION 3 AT ELEVATION 830.00 FEET SET NO. = 13
NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1248				DEGREE OF FREEDOM = 3		NUMBER OF GRIDS = 37		DAMPING VALUE = 0.030			
1	0.9000	0.23746	2	0.9450	0.24846	3	1.0009	0.24846	4	1.0620	0.29708
5	1.2870	0.31890	6	1.3590	0.37534	7	1.4251	0.37534	8	1.4490	0.38980
9	1.5030	0.40990	10	1.5687	0.40990	11	1.7280	0.52379	12	1.8720	0.59852
13	2.0763	0.59852	14	2.2500	0.61302	15	2.6460	0.73713	16	2.8170	0.75905
17	2.9970	0.87605	18	3.2130	0.98395	19	3.4650	1.03192	20	4.0000	1.33920
21	5.0040	1.33920	22	5.6250	1.80837	23	7.0290	1.80837	24	7.1215	1.77013
25	7.8210	1.77013	26	8.2000	1.70982	27	10.4940	1.08025	28	12.2914	0.51009
29	13.6950	0.51009	30	13.9370	0.50796	31	14.2120	0.50012	32	15.2570	0.43963
33	16.7420	0.43110	34	18.5460	0.36942	35	22.8690	0.34157	36	27.0930	0.28360
37	39.5000	0.27517									

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.03
FIGURE NO. 1249-B DIRECTION 3 AT ELEVATION 807.00 FEET SET NO. = 14
NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1249				DEGREE OF FREEDOM = 3		NUMBER OF GRIDS = 36		DAMPING VALUE = 0.030			
1	0.9000	0.23415	2	0.9450	0.24537	3	1.0000	0.24537	4	1.0620	0.29272
5	1.2870	0.31127	6	1.3590	0.36603	7	1.4268	0.36603	8	1.4490	0.37605
9	1.5030	0.39338	10	1.5682	0.39338	11	1.7280	0.48879	12	1.8720	0.56575
13	2.1198	0.56575	14	2.2500	0.57917	15	2.6460	0.63763	16	2.9970	0.75772
17	3.2130	0.80733	18	3.4650	0.80975	19	3.7530	0.98320	20	5.0040	0.98320
21	5.4630	1.16698	22	5.6250	1.23558	23	6.7333	1.23558	24	7.2720	1.49694
25	6.8880	1.49694	26	11.0000	0.66918	27	12.2736	0.45003	28	13.6950	0.45003
29	14.1702	0.42485	30	16.7420	0.42485	31	17.5240	0.40881	32	20.0310	0.40881
33	22.8690	0.36027	34	27.0930	0.27653	35	29.4140	0.27531	36	39.5000	0.25486

