

CYGNA		AP
JOB NO :	84002	
DATE LOGGED:	6/7/84	
LOG NO. :	116	(37)
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.

NODAL COORDINATE			
MASS POINT	X (ft)	Y (ft)	Z (ft)
1	59.31	871.29	- 1.12
2	55.47	852.50	- 0.18
3	46.31	829.55	0.15
4	53.78	805.63	0.75
5	57.20	776.77	- 0.14
6	179.37	892.85	- 0.22
7	166.47	872.32	3.47
8	172.92	849.55	0.40
9	174.87	831.15	- 2.09
10	178.11	811.46	1.58
11	162.22	771.36	- 2.30

TUSI
ELECT. & AUXILIARY BUILDING

Gibbs & Hill Inc.
ENGINEER, DESIGNER, CONTRACTOR
BY TUSI

SCALE -
TABLE 1

JOB NO 2523-A

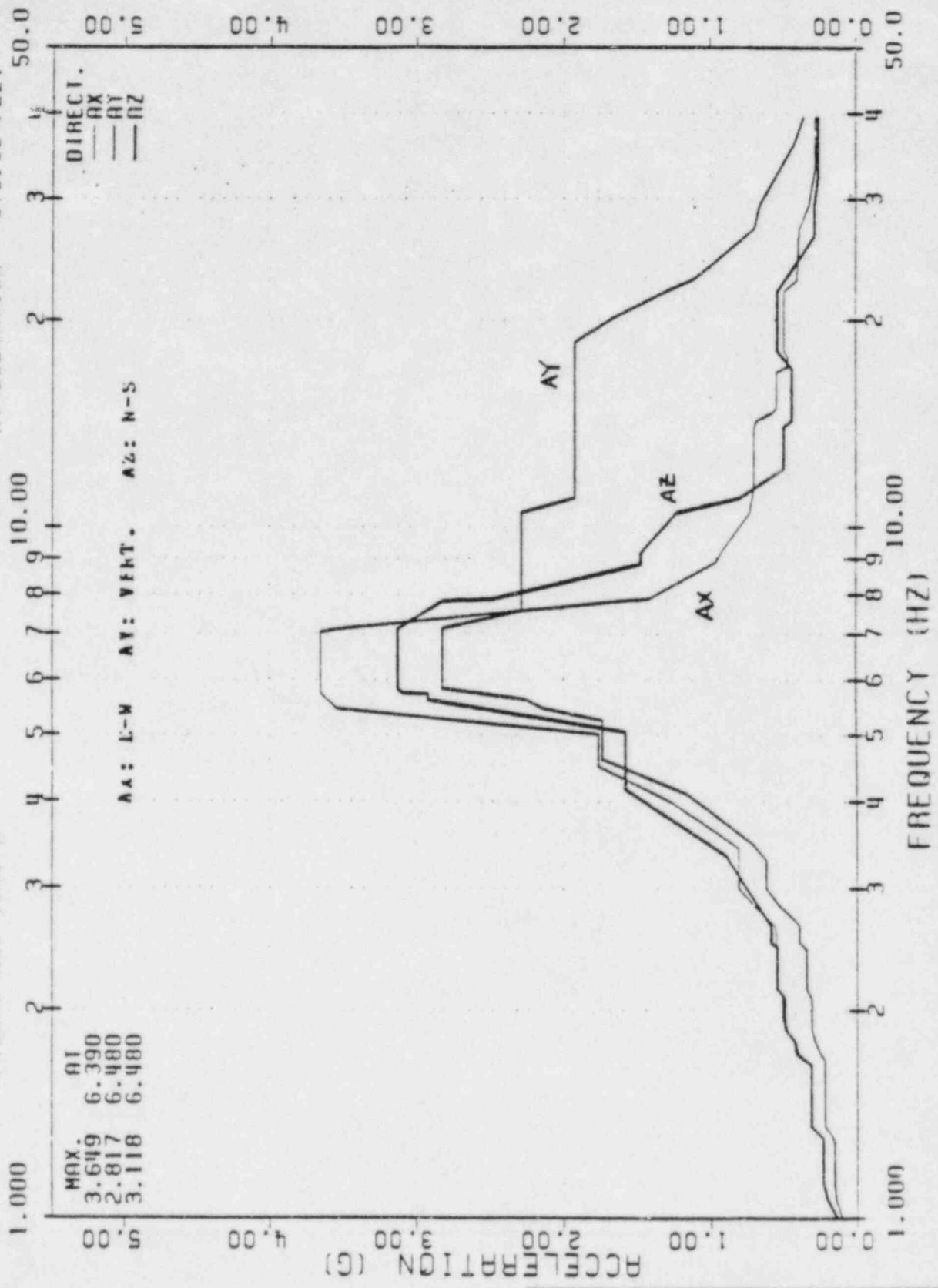
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SUMMARY OF REFINED FLOOR RESPONSE SPECTRA

FIGURE NO.	FLOOR ELEVATION	DAMPING %	EARTHQUAKE	TYPE OF MOTION
1241-B	873.33 FT.	2	SSE	TRANSL. & ROT.
1242-B	854.33 FT.	2	SSE	TRANSL. & ROT.
1243-B	830.00 FT.	2	SSE	TRANSL. & ROT.
1244-B	807.00 FT.	2	SSE	TRANSL. & ROT.
1245-B	778.00 FT.	2	SSE	TRANSL. & ROT.
1246-B	873.33 FT.	3	SSE	TRANSL. & ROT.
1247-B	854.33 FT.	3	SSE	TRANSL. & ROT.
1248-B	830.00 FT.	3	SSE	TRANSL. & ROT.
1249-B	807.00 FT.	3	SSE	TRANSL. & ROT.
1250-B	778.00 FT.	3	SSE	TRANSL. & ROT.

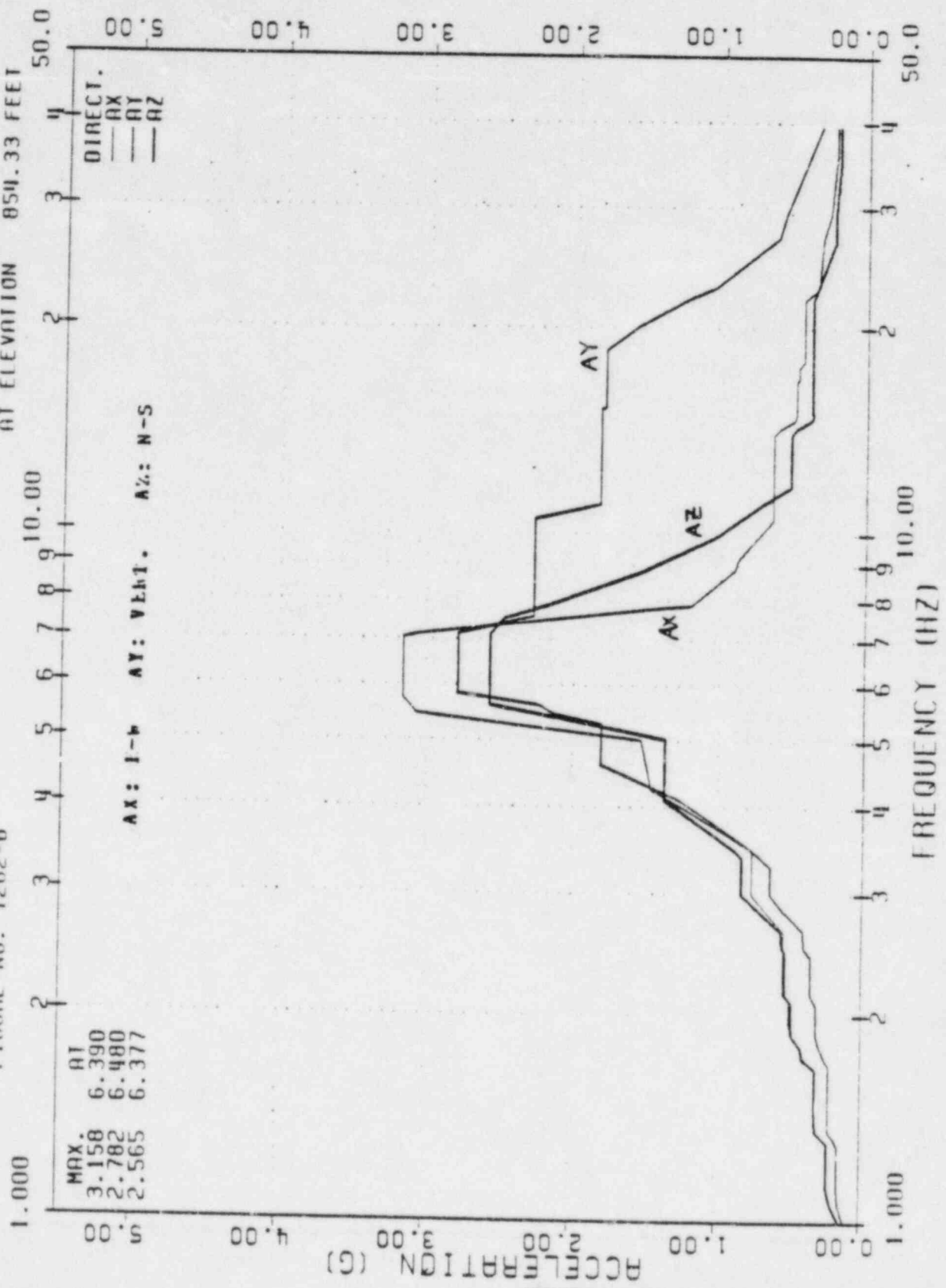
										TUSI	
										ELECTRICAL BUILDING	
										Gibbs & Hill, Inc.	
										ENGINEERS, ARCHITECTS, CONTRACTORS	
										NEW YORK	
										NEW YORK 2323	
										SCALE -	
										TABLE 3	

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



TUSI-ELECTRICAL BLDG.	
REFINED RESPONSE SPECTRA	
GIBBS & HILL, INC.	
ENGINEERS, DESIGNERS, CONSTRUCTORS	
ISSUED FOR	FIGURE-1261-B
JOB NO. 2323	

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



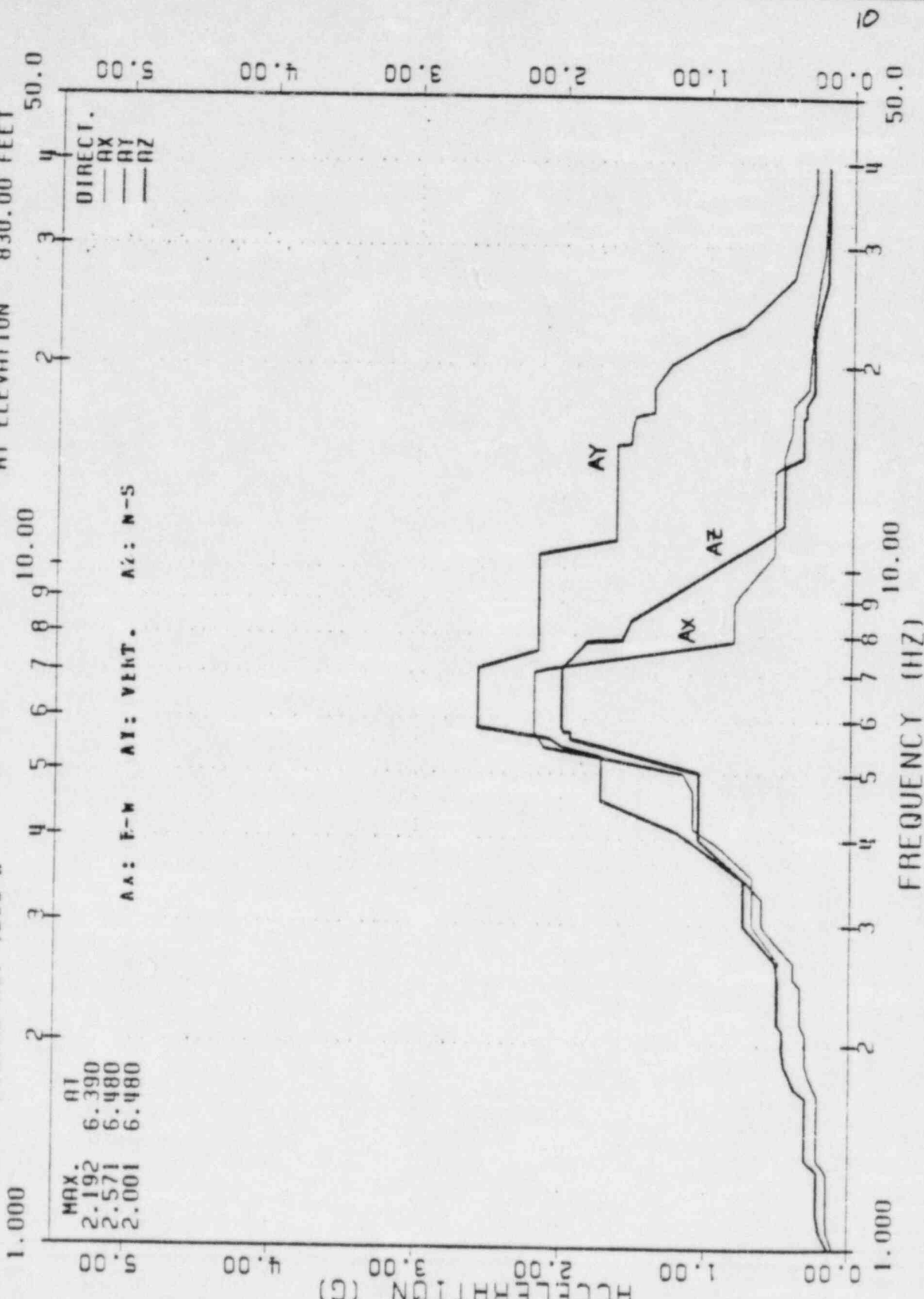
11/24/60

ISSUE NO. DATE PLTD. CHKD. SOC. INCH. STRE. MECH. ELEC. MEAS. BLDG. OPT. P.A. APPROVAL

ISSUED FOR

TUSI-ELECTRICAL BLDG.	
REFINED RESPONSE SPECTRA	
GIBBS & HILL, INC.	
ENGINEERS, DESIGNERS, CONSTRUCTORS	
JOB NO. 2323	FIGURE-1262-B

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



TUSI-ELECTRICAL BLDG.
 REFINED RESPONSE SPECTRA
 GIBBS & HILL, INC.
 ENGINEERS, DESIGNERS, CONSTRUCTORS
 MAY 1966
 JOB NO. 2523
 FIGURE-1263-B

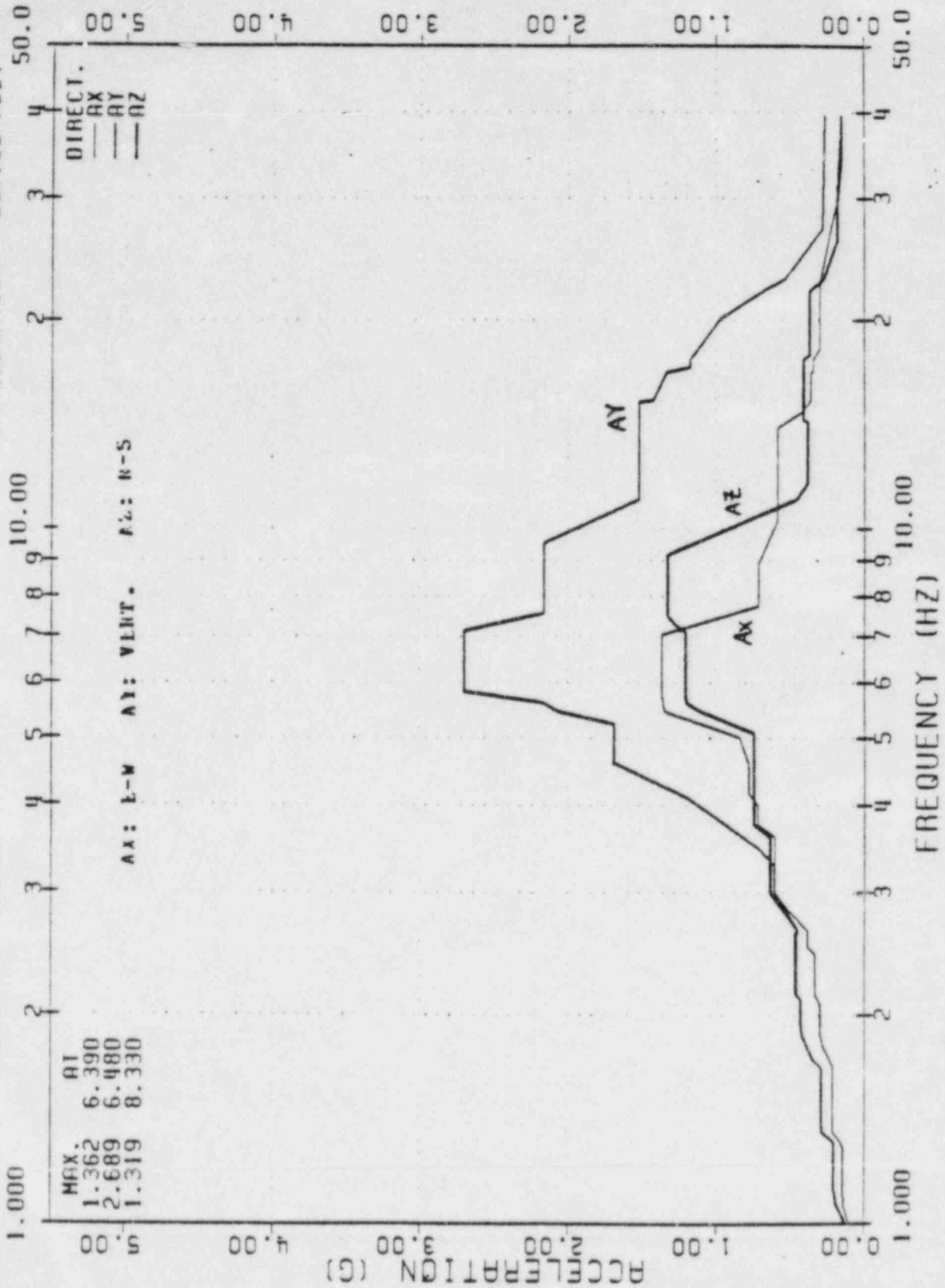
TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

FLOOR RESPONSE SPECTRA FOR 1/2 SSE

DAMPING = 0.01

AT ELEVATION 807.00 FEET

FIGURE NO. 1264-B

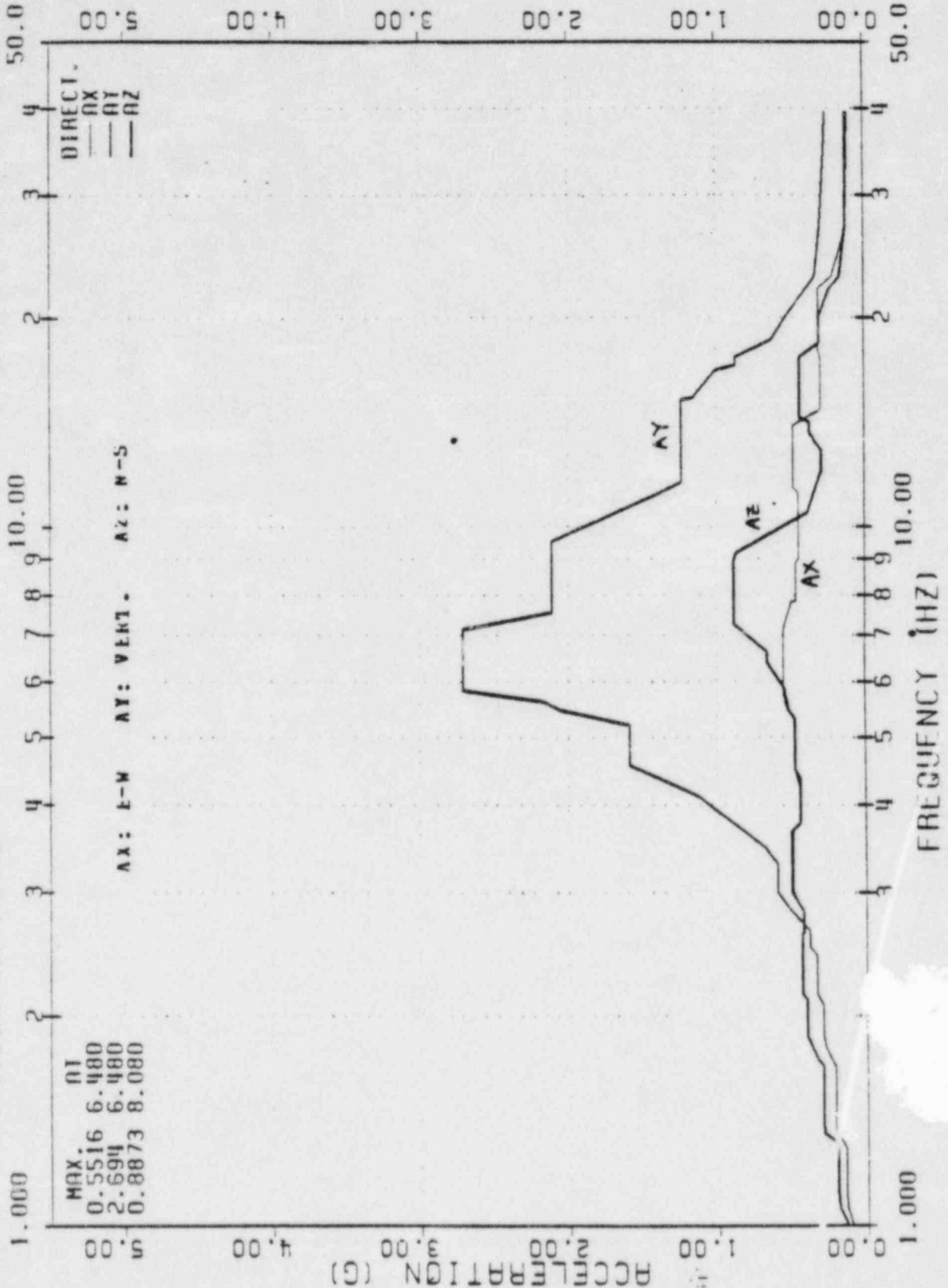


TUSI-ELECTRICAL BLDG.	
REFINED RESPONSE SPECTRA	
GIBBS & HILL, INC. ENGINEERS, DESIGNERS, CONSTRUCTORS NEW YORK	
JOB NO. 2328	FIGURE-1264-B

ISSUE NO.	DATE PLTD. CHGD.	BY	APPROVAL	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-ELECTRICA BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.
 ENGINEERS, DESIGNERS, CONSTRUCTORS

FIGURE-1265-B

DATE PLTD. CHNG. 11/24/60 WT

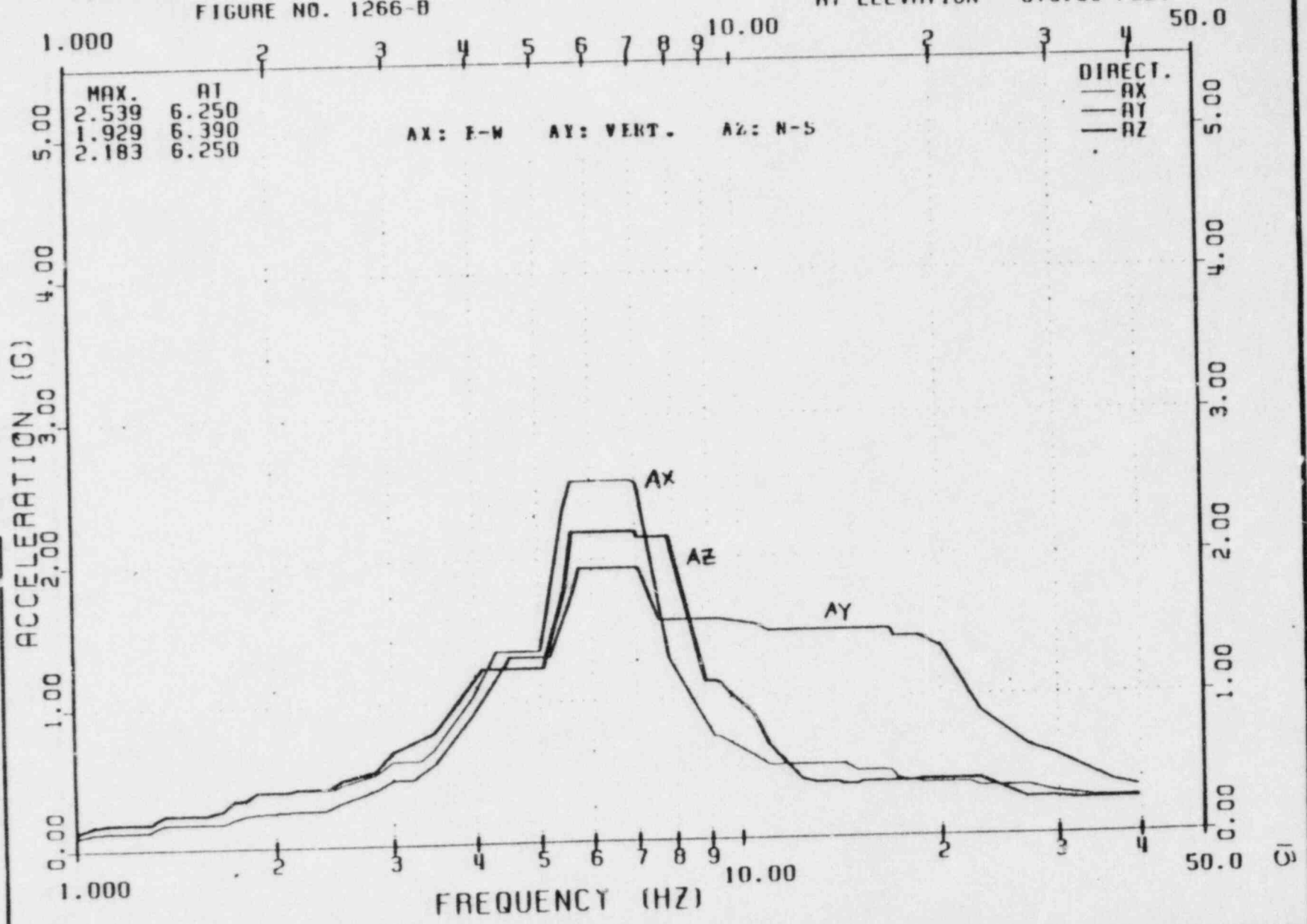
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JOB NO. 2323

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE;
 FIGURE NO. 1266-B

DAMPING = 0.02
 AT ELEVATION 873.33 FEET



TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERING ARCHITECTS CONSULTANTS

JOB NO. 2325

FIGURE-1266-B

O TITLED W/T
 1984 DATE P. 1/1/84 SEC.
 1984 DATE P. 1/1/84 SEC.

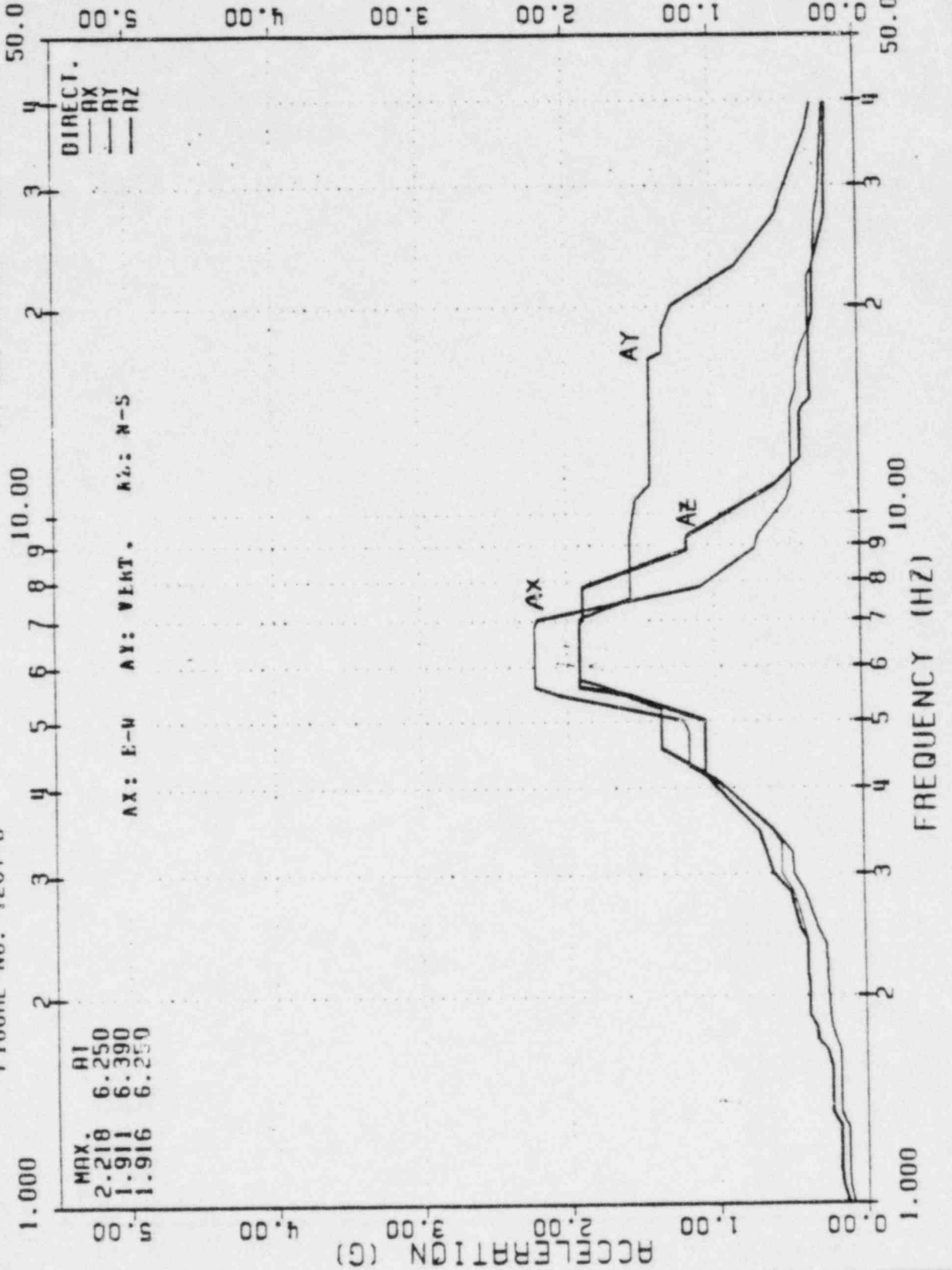
TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

FLOOR RESPONSE SPECTRA FOR 1/2 SSE;

FIGURE NO. 1267-B

DAMPING = 0.02

AT ELEVATION 854.33 FEET

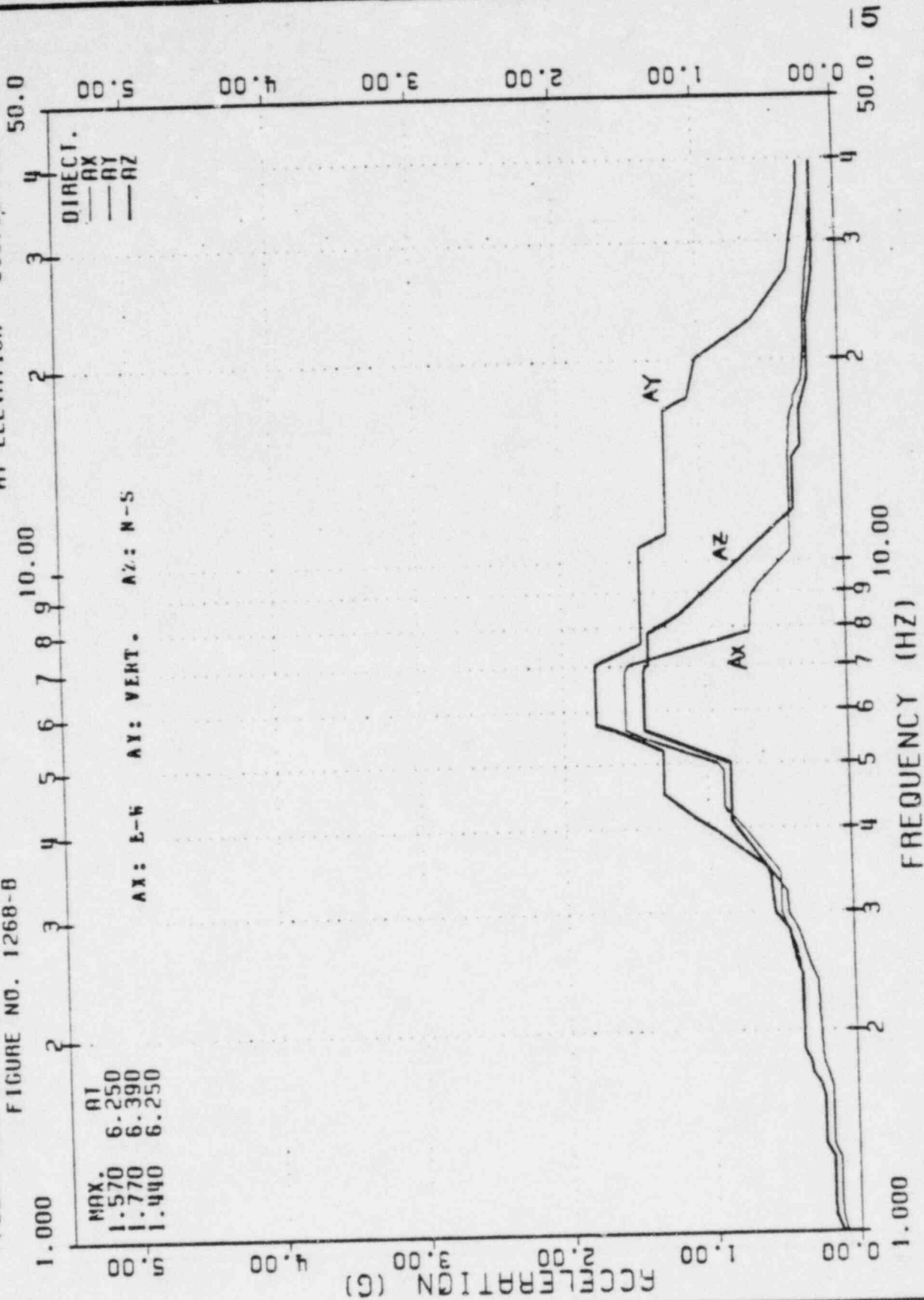


TUSI-ELECTRICAL BLDG.	
REFINED RESPONSE SPECTRA	
GIBBS & HILL, INC.	
ENGINEERS, DESIGNERS, CONSTRUCTORS	
SINCE 1908	
JOB NO.	2323
FIGURE-	1267-B

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



TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

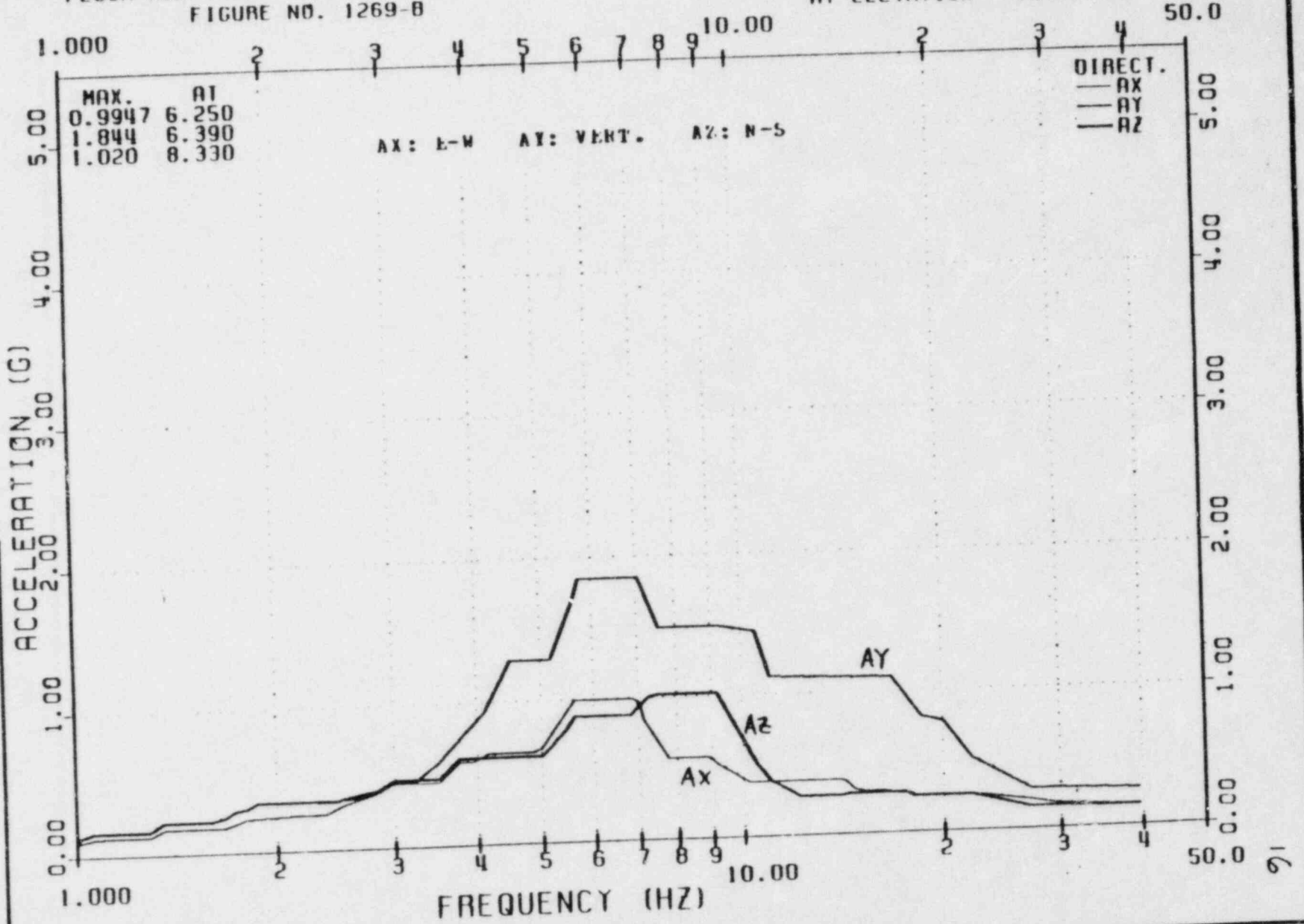
ENGINEERS, DESIGNERS, CONSTRUCTORS

FIGURE-1268-

JOB NO. 2323

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.

ENGINEERS, DESIGNERS, ARCHITECTS

JAN 68 2323

FIGURE-1269-B

ISSUED PER

F.S.

DESIGNED BY

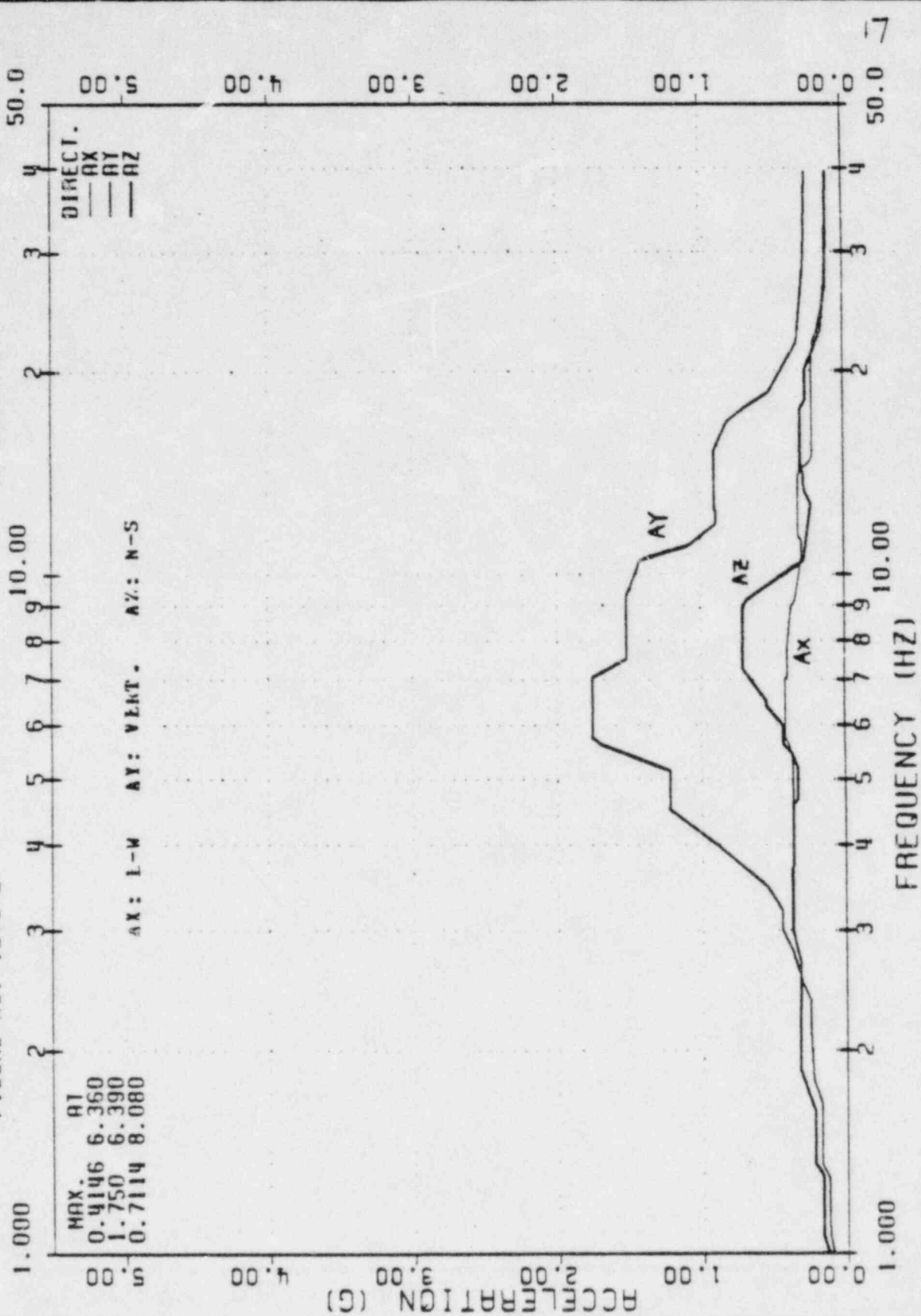
0 11/17/67

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

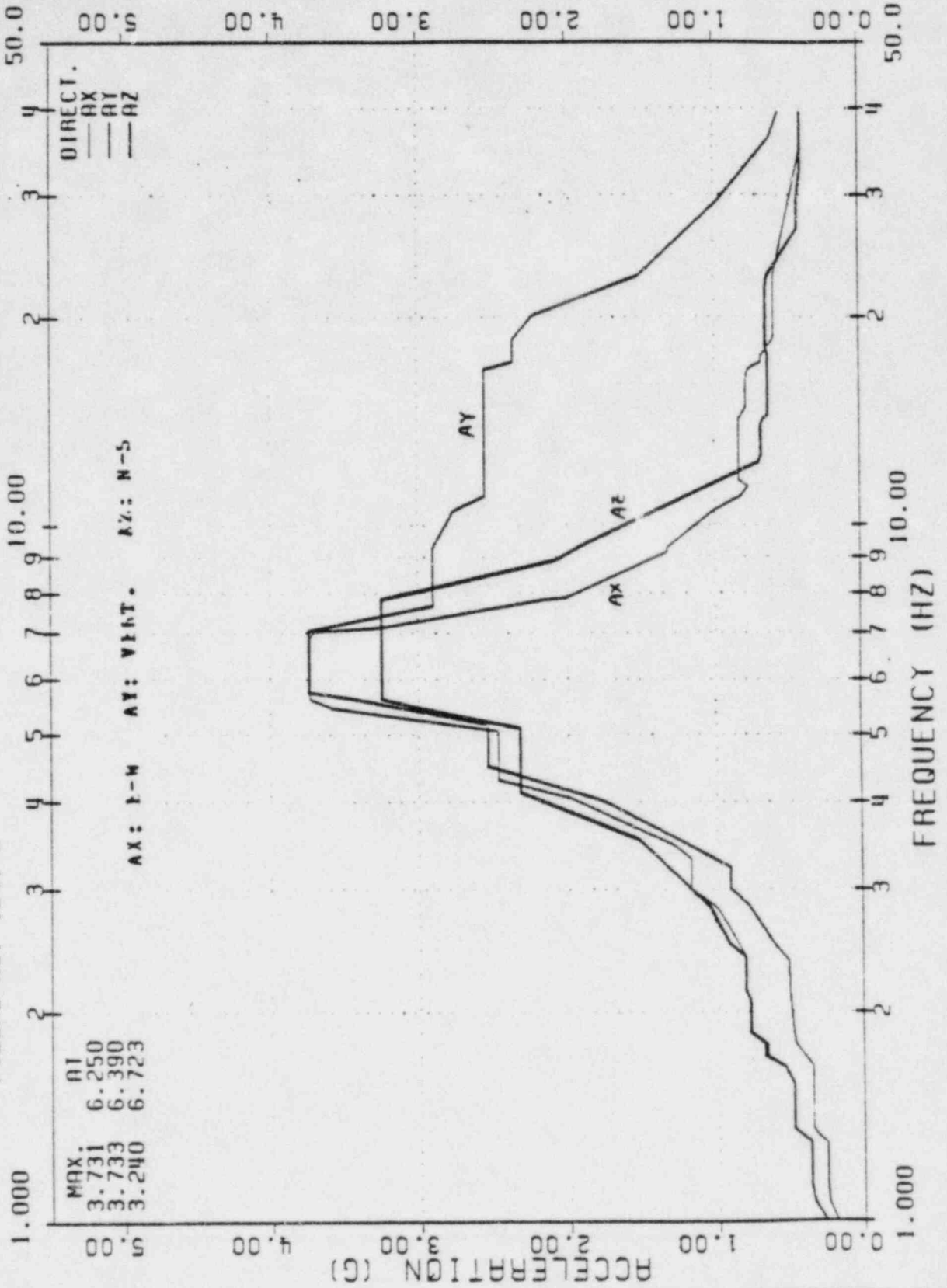
FIGURE-1270-B

JOB NO 2325

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

FLOOR RESPONSE SPECTRA FOR SSE;
 FIGURE NO. 1241-B

DAMPING = 0.02
 AT ELEVATION 873.33 FEET



MAX. AT
 3.731 6.250
 3.733 6.390
 3.240 6.723

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

DIRECT.
 — AX
 — AY
 — AZ

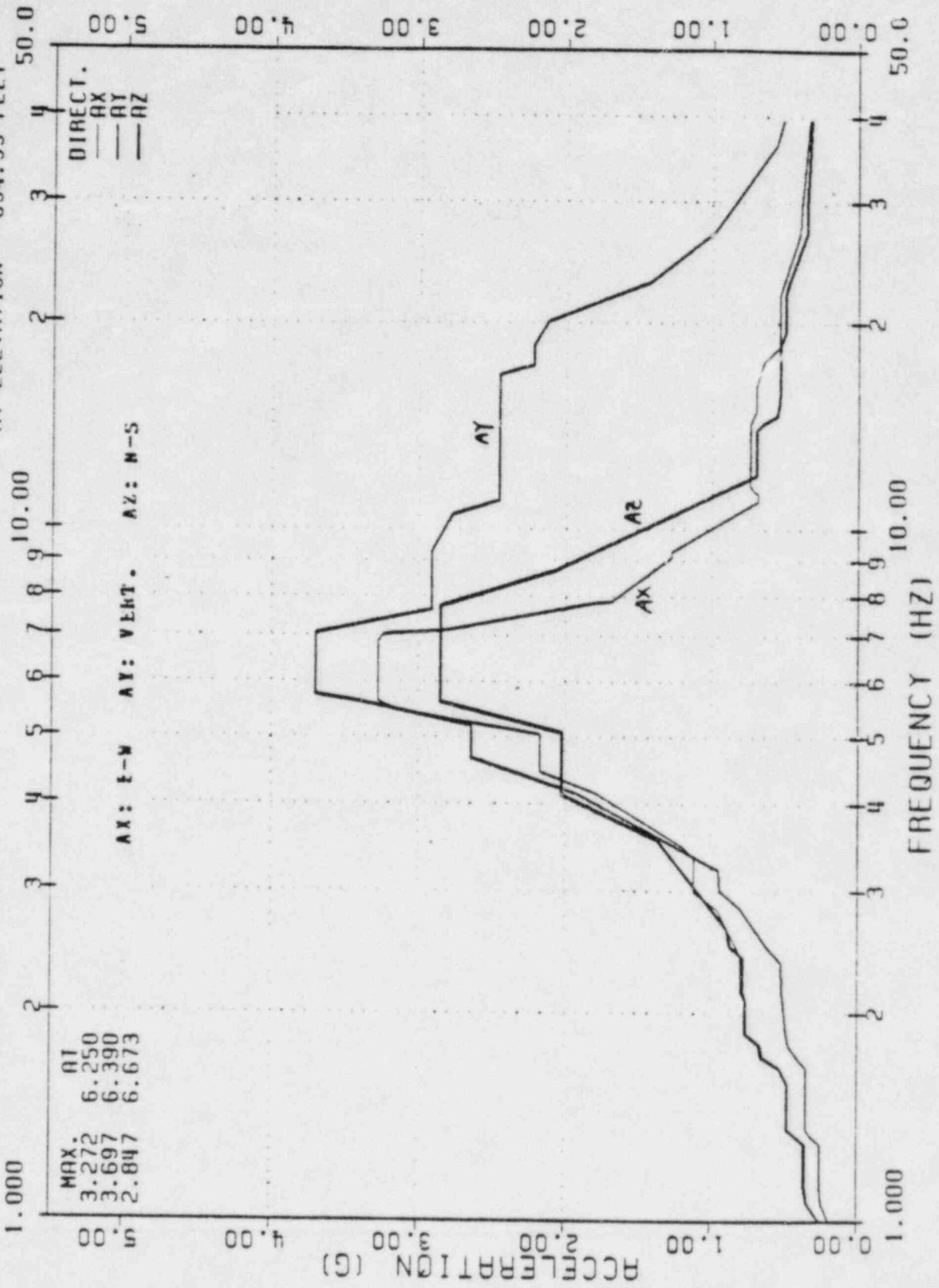
TUSI-ELECTRICAL BLDG.	
REFINED RESPONSE SPECTRA	
GIBBS & HILL, INC. ENGINEERS, DESIGNERS, CONSTRUCTORS SINCE 1906	
ISSUED FOR	JOB NO. 2323

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100% STRENGTH ELEC. BLDG. DIV. P.A.
 APPROVED

FIGURE-1241-B

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



11/25 RDP NT

ISSUE DATE PLTD. CHKD. 500. APPROV. BY: [Signature] DATE: [Date]

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TUSI-ELECTRICAL BLDG.	
REFINED RESPONSE SPECTRA	
GIBBS & HILL, INC. ENGINEERS, DESIGNERS, CONSTRUCTORS	
JOB NO. 2323	FIGURE-1242-B

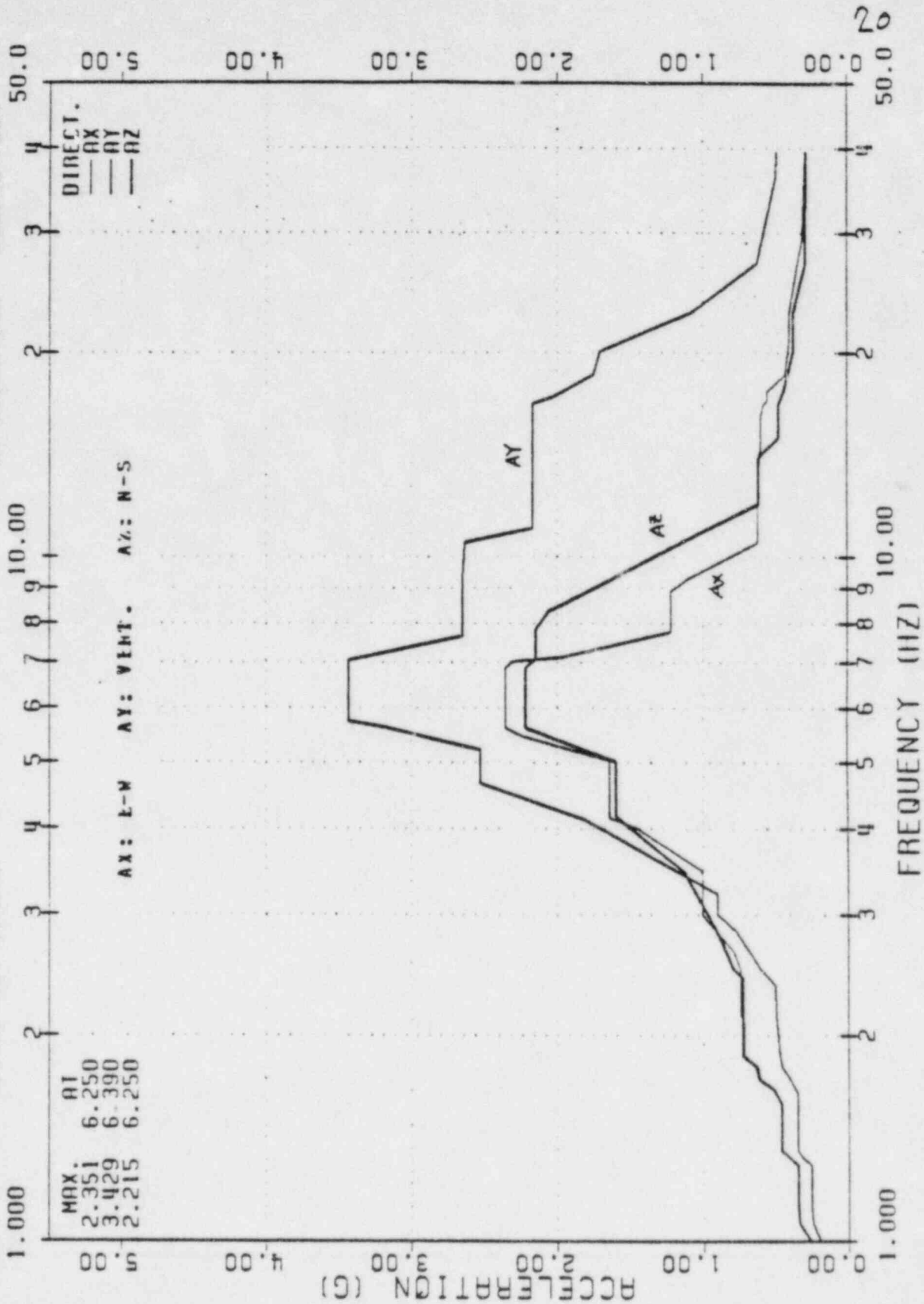
TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

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	
ISSUED FOR	FIGURE-1243-B
DATE PLTD. CHRG. 11/25/68	JOB NO. 2525

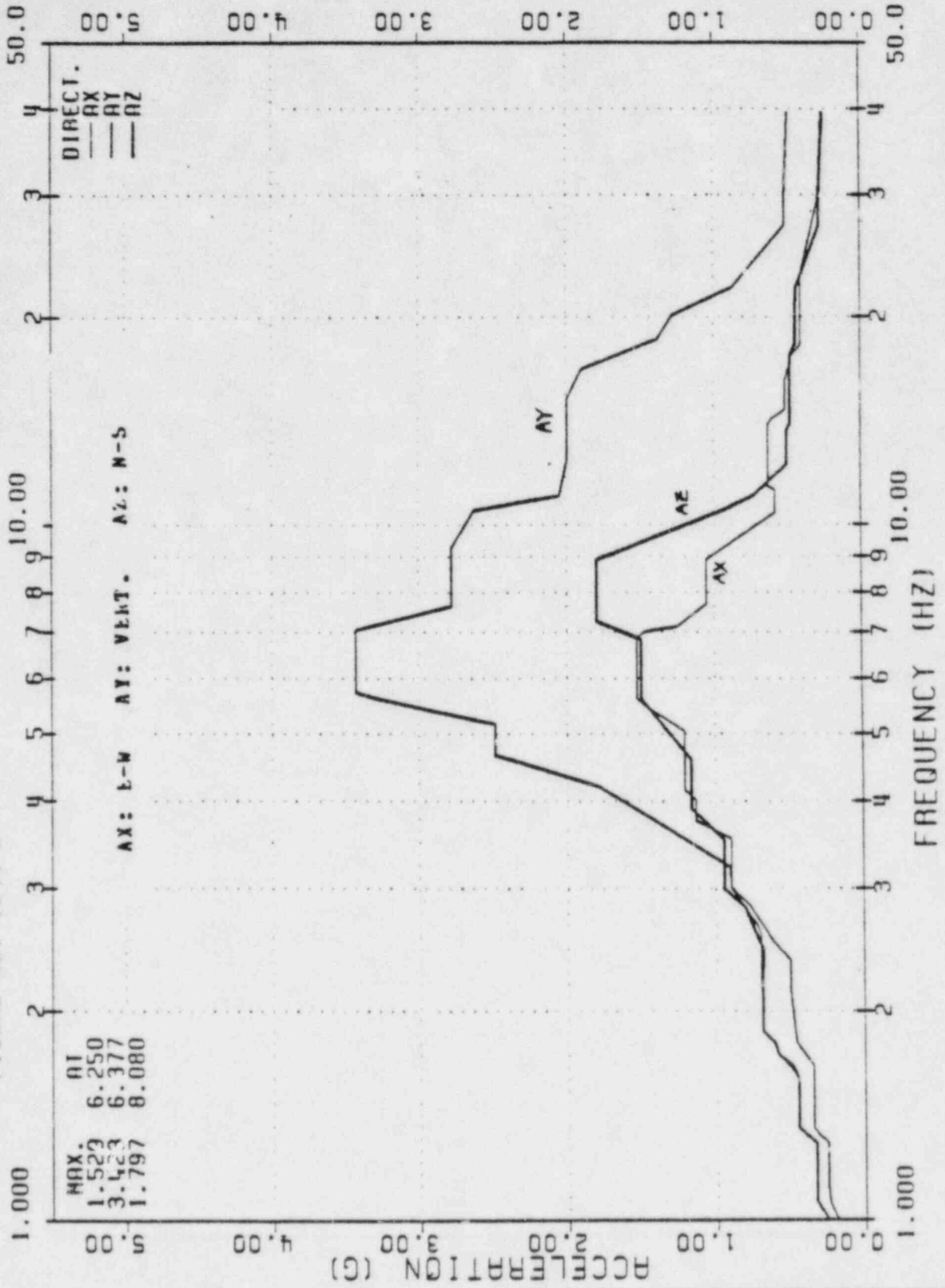
TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

FLOOR RESPONSE SPECTRA FOR SSE:

DAMPING = 0.02

AT ELEVATION 807.00 FEET

FIGURE NO. 1244-B



TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

NEW YORK

JOB NO. 2323

FIGURE-1244-B

0 11/23 RDP WT

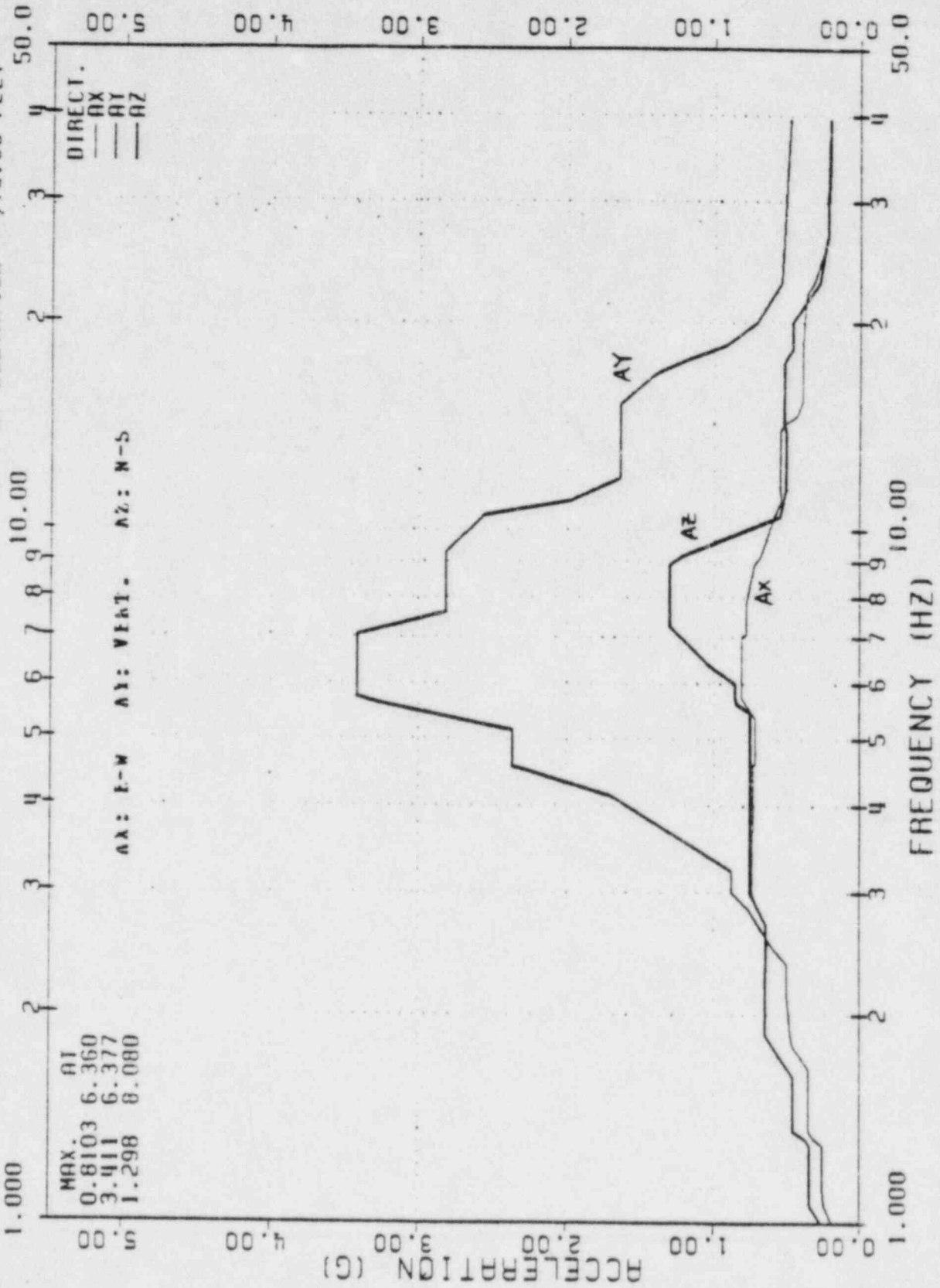
ISSUE DATE PLTD. CHKD. 300.

DESIGNER: STYCI/NEIN DLT. REA/BLA. DR. P.A. APPROVED: 3

ISSUED FOR

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

FLOOR RESPONSE SPECTRA FOR SSE;
 DAMPING = 0.02
 AT ELEVATION 778.00 FEET
 FIGURE NO. 1245-B



TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS
 MAY 1966

FIGURE-1245-B

0 11/23 ADP WT

ISSUE DATE PLT.D. CHK. NO.

APPROVED BY: _____
 APPROVAL DATE: _____

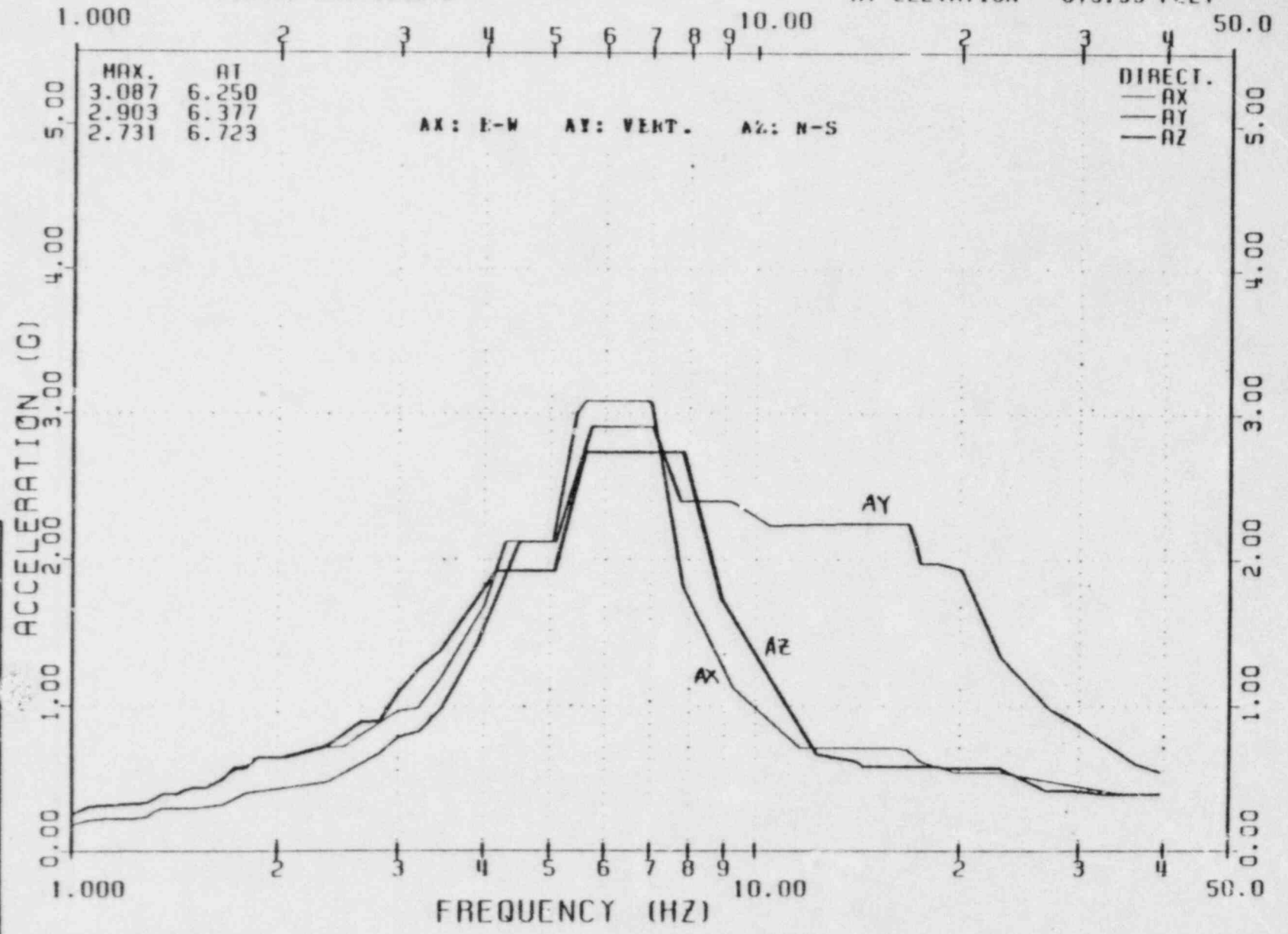
ISSUED FOR

JOB NO 2325

0 1/23 HOP WT
 13208 DATE P.L.T.O. CHNG. 500
 13208 DATE P.L.T.O. CHNG. 500
 13208 DATE P.L.T.O. CHNG. 500
 ISSUED FOR
 GIBBS & HILL, INC.
 ENGINEERS, DESIGNERS, CONSTRUCTORS
 1923
 FIGURE-1246-B

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

FLOOR RESPONSE SPECTRA FOR SSE; DAMPING = 0.03
 FIGURE NO. 1246-B AT ELEVATION 873.33 FEET

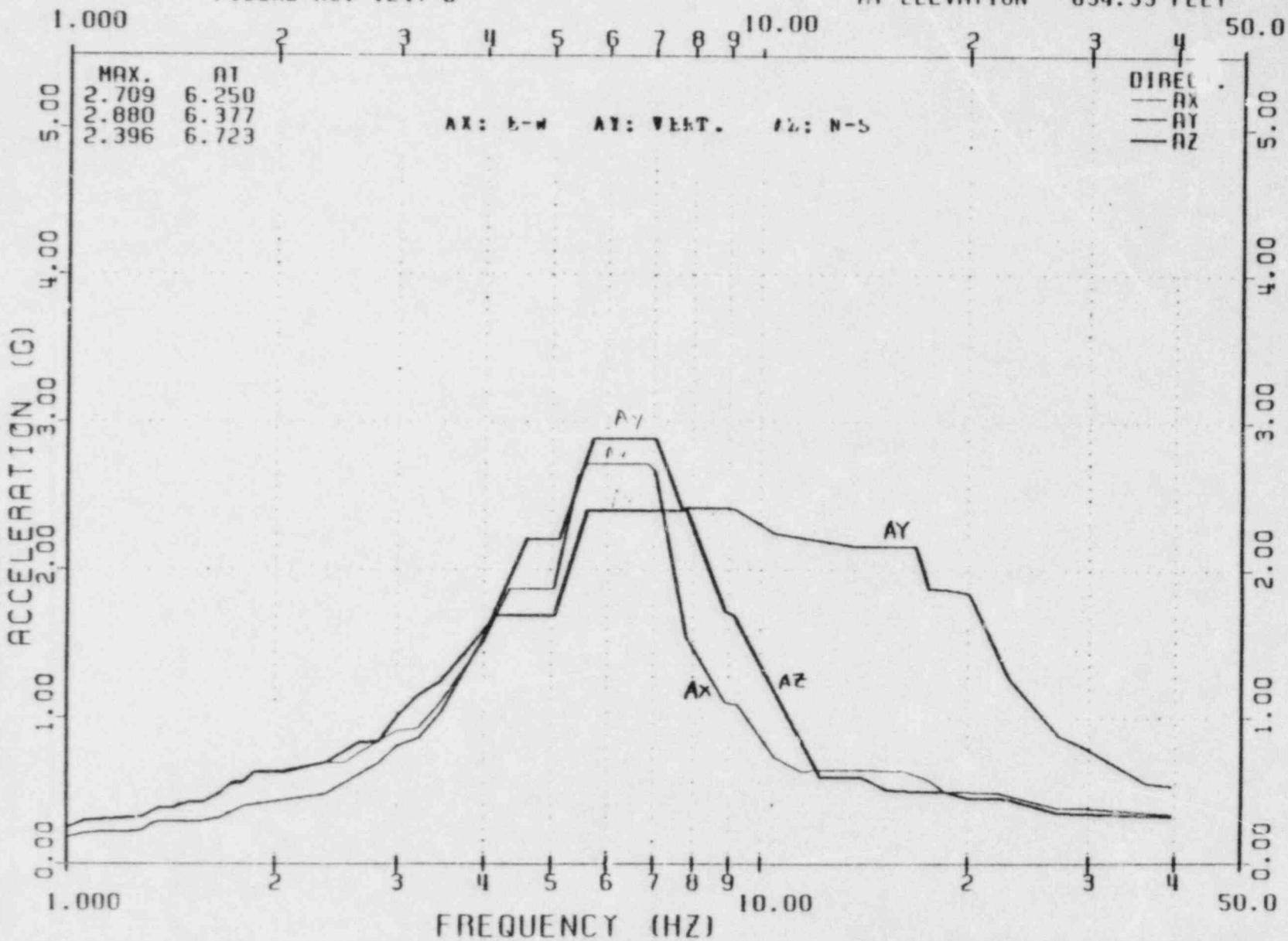


TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

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

DAMPING = 0.03

AT ELEVATION 854.33 FEET



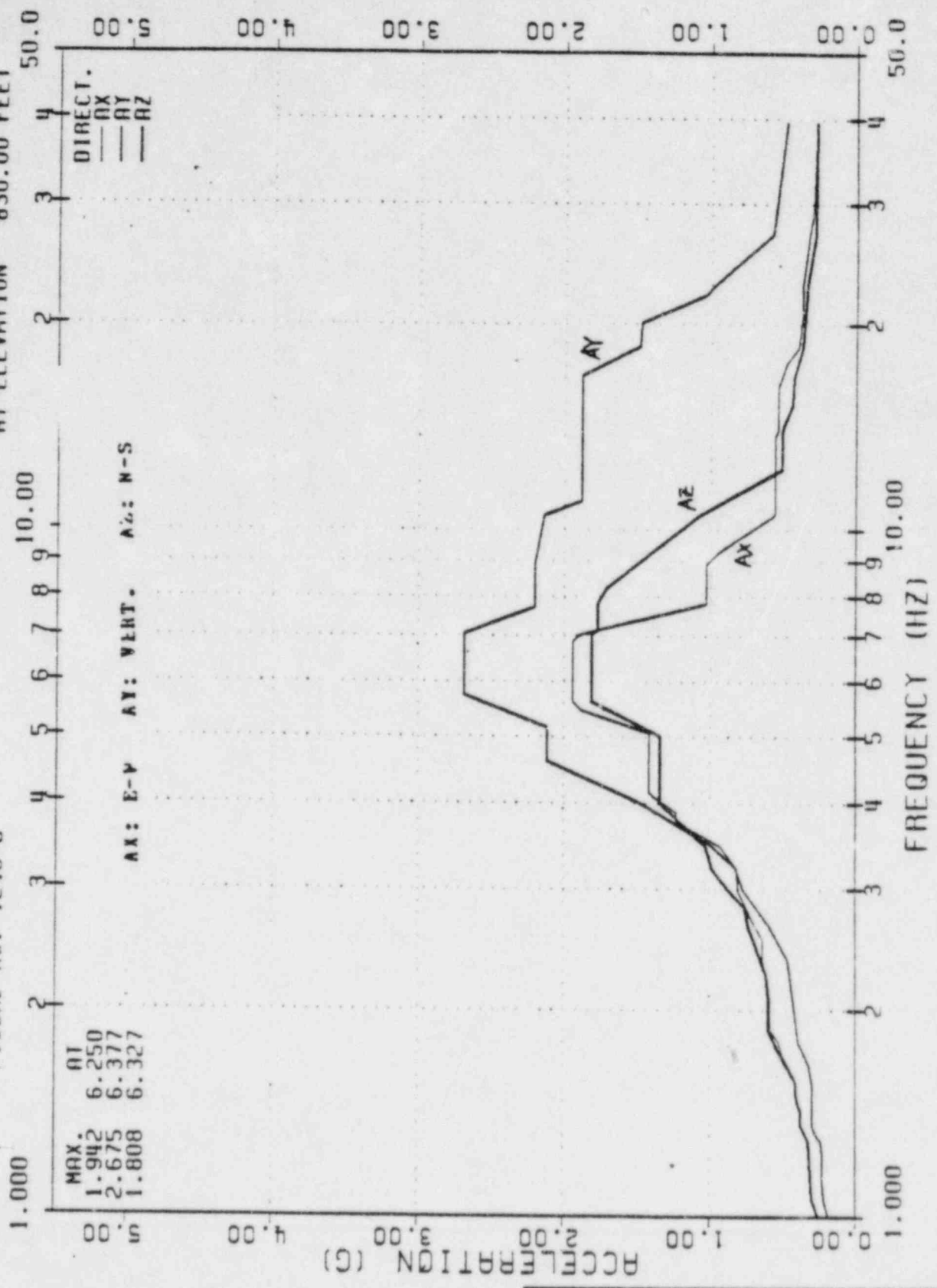
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 ISSUED DATE 11/20/84
 DRAWING NO. 1247-B
 PROJECT: TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.
 18000 8900
 GIBBS & HILL, INC.
 ENGINEERS, ARCHITECTS, CONTRACTORS
 JOB NO. 2323
 FIGURE-1247-B

TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.

FLOOR RESPONSE SPECTRA FOR SSE;
 DAMPING = 0.03
 AT ELEVATION 830.00 FEET
 FIGURE NO. 1248-B



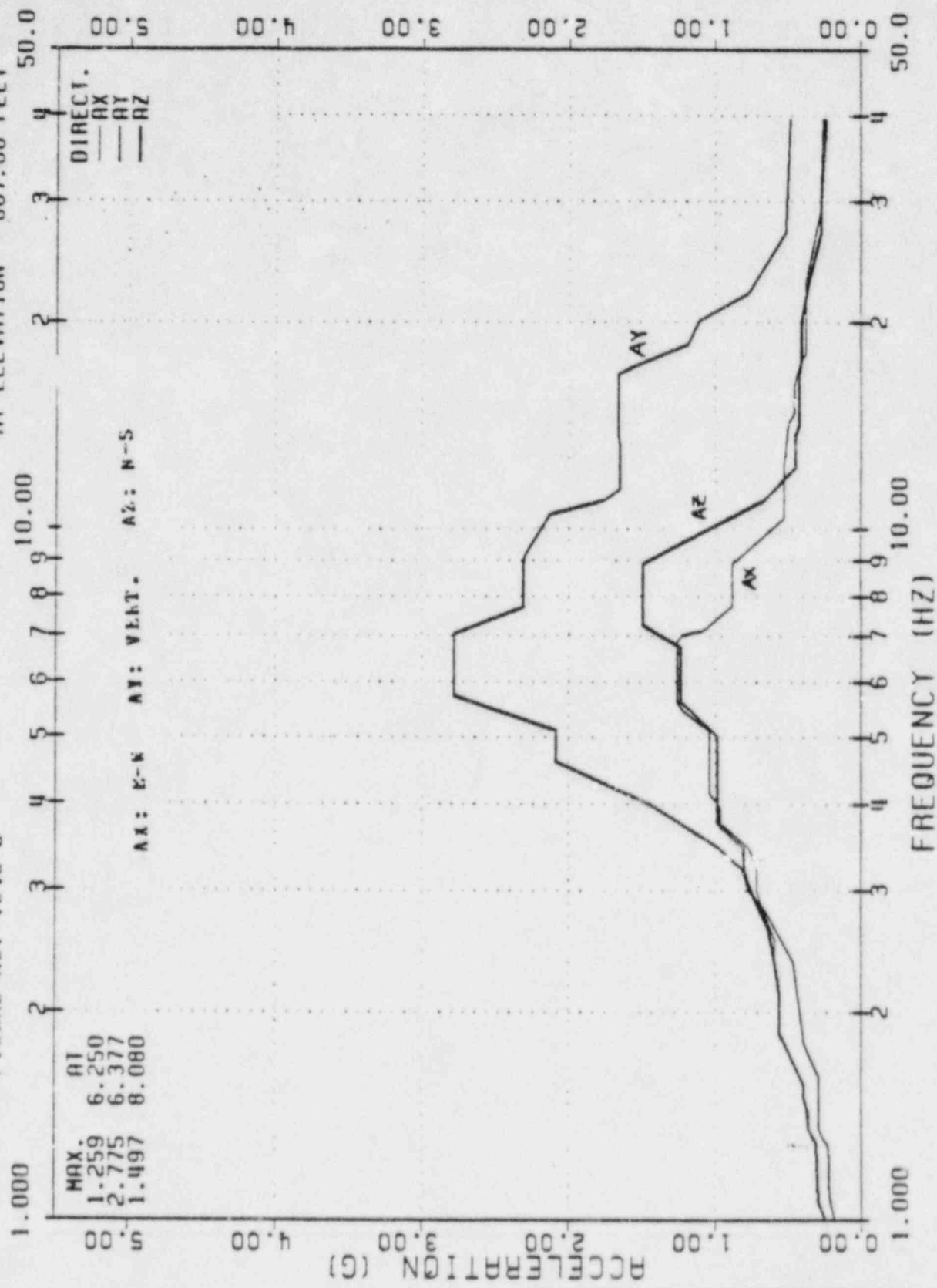
TUSI-ELECTRICAL BLDG.	
REFINED RESPONSE SPECTRA	
GIBBS & HILL, INC. ENGINEERS, DESIGNERS, CONSTRUCTORS	
JOB NO. 2323	FIGURE-1248-B

11/23/68 ROP GW

ISSUE DATE PLT.DCHKD. 300. INCH. STMT. REV. ELEC. REV. 9. WEA. DIV. P.A. APPROVALS

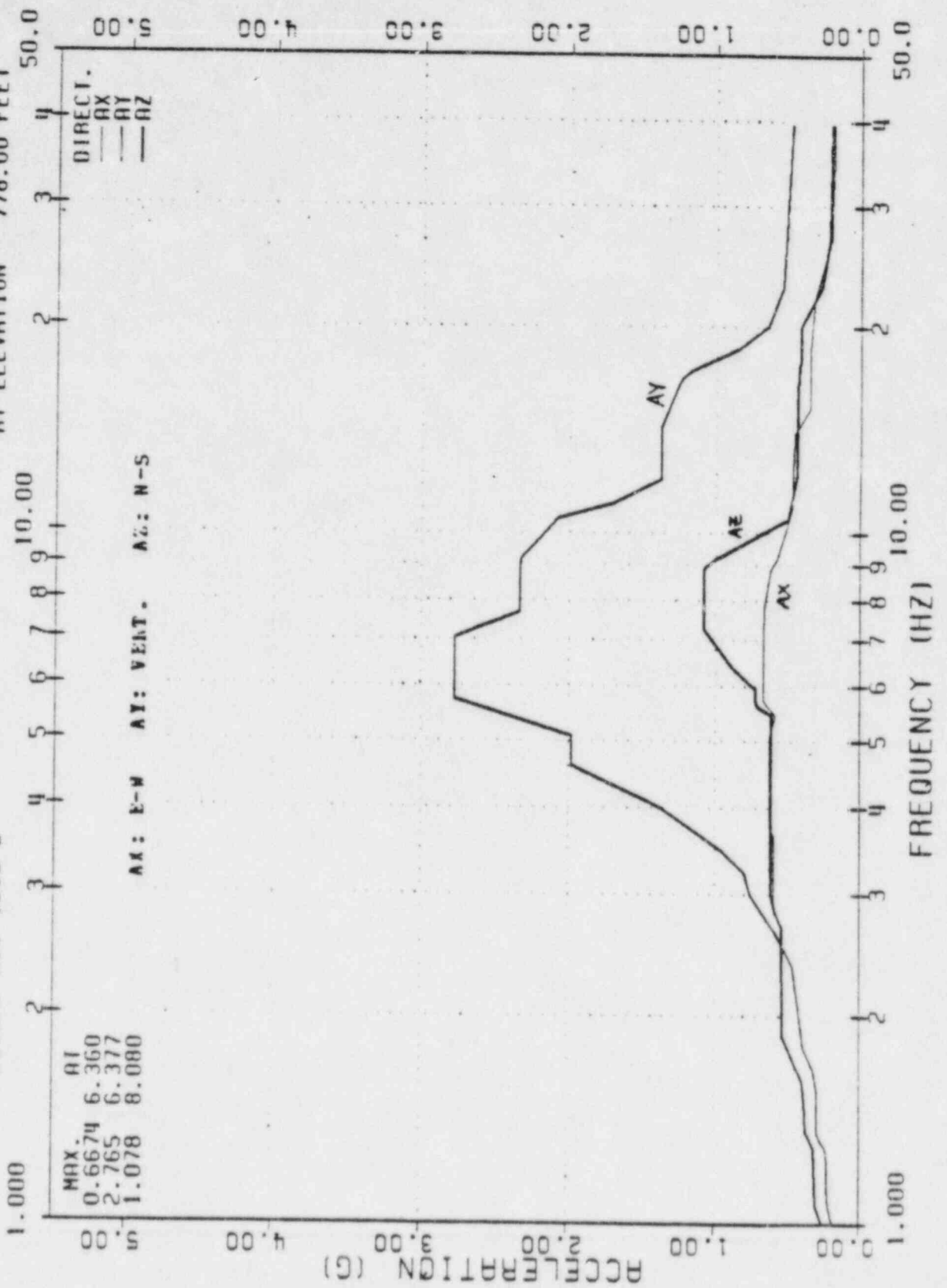
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TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.
 FLOOR RESPONSE SPECTRA FOR SSE:
 DAMPING = 0.03
 AT ELEVATION 807.00 FEET
 FIGURE NO. 1249-B



TUSI-ELECTRICAL BLDG.	
REFINED RESPONSE SPECTRA	
GIBBS & HILL, INC.	
ENGINEERS, DESIGNERS, CONSTRUCTORS	
ISSUE NO. DATE PLG. CHG. DR.	ISSUED FOR
APPROVE	JOB NO. 2323
FIGURE-1249-B	

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



TUSI-ELECTRICAL BLDG.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.
 ENGINEERS, DESIGNERS, CONSTRUCTORS
 1901 YORK

JOB NO. 2323

FIGURE-1250-B

11/23/68 RDP:WT

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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. 1261-B DIRECTION 1 AT ELEVATION 873.33 FEET

BROADENED SPECTRUM FOR NODE=1261	DEGREE OF FREEDOM =	NUMBER OF GRIDS =	DAMPING VALUE =	SET NO. =
1 0.9000	0.9450	1.0114	4 1.0620	1
2 0.14036	0.14557	0.14557	4 0.19868	
5 1.1250	1.3049	1.3590	8 1.4040	
9 1.6720	1.7280	1.8000	12 1.8720	
13 1.9530	2.0834	2.1420	16 2.5585	
17 2.6460	2.8170	2.9970	20 3.4188	
21 3.4650	4.0000	4.5000	24 5.0150	
25 5.4630	5.7510	7.0290	28 7.1280	
29 7.8210	7.8540	8.8880	32 9.2730	
33 10.4940	11.4030	13.9370	36 14.2120	
37 14.6630	14.8611	16.7420	40 17.0799	
41 17.6527	18.0000	22.0000	44 22.8690	
45 27.0930	29.4140	33.3004	48 39.5000	

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

BROADENED SPECTRUM FOR NODE=1262	DEGREE OF FREEDOM =	NUMBER OF GRIDS =	DAMPING VALUE =	SET NO. =
1 0.9000	0.9450	1.0119	4 1.0620	2
5 1.1250	1.3052	1.3590	8 1.4040	
9 1.6730	1.7280	1.8000	12 1.8720	
13 1.9530	2.0852	2.1420	16 2.5182	
17 2.6460	2.8170	2.9970	20 3.4692	
21 3.8878	4.2500	5.0040	24 5.4630	
25 5.7510	3.15791	7.1280	28 7.8210	
29 7.8540	6.8880	9.1630	32 9.2730	
33 10.4940	13.9370	14.2120	36 14.6630	
37 14.9332	16.7420	16.8196	40 17.5120	
41 17.8569	22.0000	22.8690	44 27.0930	
45 29.4740	36.2312	39.5000		

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

BROADENED SPECTRUM FOR NODE=1263	DEGREE OF FREEDOM =	NUMBER OF GRIDS =	DAMPING VALUE =	SET NO. =
1 0.9000	0.9450	1.0124	4 1.0620	3
5 1.1250	1.3102	1.3230	8 1.3590	
9 1.4040	1.6777	1.7280	12 1.8720	
13 1.9530	2.0883	2.1420	16 2.6180	
17 2.6287	2.6460	2.9970	20 3.5270	
21 3.9266	4.9232	4.7068	24 5.0040	
25 5.4630	2.1879	7.0290	28 7.1280	
29 7.8210	6.8873	8.8880	32 9.1630	
33 10.5609	13.9370	14.2120	36 14.6630	
37 16.0162	16.7420	16.7958	40 17.5120	
41 18.5460	22.8690	27.0930	44 29.4140	
45 36.3000	37.4345	39.5000		

MOST-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.; SET NO. = 4
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX; DAMPING = 0.01
 FIGURE NO. 1264-B DIRECTION 1 AT ELEVATION 807.00 FEET 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						

MOST-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.; SET NO. = 5
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AX; DAMPING = 0.01
 FIGURE NO. 1265-B DIRECTION 1 AT ELEVATION 778.00 FEET 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									

MOST-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.; SET NO. = 6
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY; DAMPING = 0.01
 FIGURE NO. 1261-B DIRECTION 2 AT ELEVATION 873.33 FEET 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			

MOST-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.; SET NO. = 7
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY; DAMPING = 0.01
 FIGURE NO. 1262-B DIRECTION 2 AT ELEVATION 854.33 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1262		DEGREE OF FREEDOM =		NUMBER OF GRIDS = 40		DAMPING VALUE =	
1	2	0.9450	0.10260	3	1.0068	4	1.0620
5	6	1.250	0.14779	7	1.3230	8	1.3590
9	10	1.6912	0.21497	11	1.8000	12	1.8720
13	14	2.0692	0.30493	15	2.4363	16	2.5020
17	18	2.6460	0.39885	19	2.9970	20	3.2724
21	22	3.4650	0.52660	23	4.6000	24	5.2691
25	26	5.4630	2.13344	27	5.8320	28	7.1280
29	30	7.5452	2.27084	31	11.0000	32	15.2130
33	34	15.2274	1.79564	35	20.0310	36	22.0000
37	38	22.8690	1.05449	39	29.4140	40	39.5000

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

BROADENED SPECTRUM FOR NODE=1263		DEGREE OF FREEDOM =		NUMBER OF GRIDS = 44		DAMPING VALUE =	
1	2	0.9450	0.10199	3	1.0068	4	1.0620
5	6	1.250	0.14674	7	1.3230	8	1.3590
9	10	1.6929	0.21325	11	1.8000	12	1.8720
13	14	2.0700	0.29938	15	2.4372	16	2.5020
17	18	2.6460	0.38704	19	2.9970	20	3.2813
21	22	3.4650	0.71690	23	4.5500	24	5.2880
25	26	5.4630	1.99371	27	5.8320	28	7.1280
29	30	7.5712	2.16499	31	11.0000	32	15.2130
33	34	15.2570	1.54161	35	16.7420	36	16.9948
37	38	18.5460	1.37191	39	22.0000	40	22.8620
41	42	27.0930	0.40762	43	36.3000	44	39.5000

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

BROADENED SPECTRUM FOR NODE=1264		DEGREE OF FREEDOM =		NUMBER OF GRIDS = 41		DAMPING VALUE =	
1	2	0.9450	0.10256	3	1.0059	4	1.0620
5	6	1.250	0.14695	7	1.3230	8	1.3590
9	10	1.6929	0.24242	11	1.8000	12	1.8720
13	14	2.0694	0.29971	15	2.4397	16	2.5020
17	18	2.6460	0.38663	19	2.9970	20	3.2843
21	22	3.4650	0.70667	23	4.6000	24	5.2391
25	26	5.4630	2.05835	27	5.8320	28	7.1280
29	30	7.5607	2.15583	31	11.0000	32	15.2130
33	34	15.2570	1.42212	35	17.0544	36	17.5120
37	38	20.0310	0.97044	39	22.8690	40	27.0930
41	42	39.5000	0.26253				

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

BROADENED SPECTRUM FOR NODE=1265		DEGREE OF FREEDOM =		NUMBER OF GRIDS = 46		DAMPING VALUE =	
1	2	0.9450	0.10287	3	1.0070	4	1.0620
5	6	1.250	0.14722	7	1.3230	8	1.3590
9	10	1.6933	0.21303	11	1.8000	12	1.8720
13	14	2.0698	0.29750	15	2.4417	16	2.5020
17	18	2.6460	0.37958	19	2.9970	20	3.3000
21	22	3.4650	0.67406	23	4.5500	24	5.2022

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	5.5400	2.10514	32	11.0000	1.44313
33	11.5790	1.23290	34	12.4463	1.23290	35	12.4470	1.23321	36	15.2130	1.23321
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;
 DIRECTION 3 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	0.39969	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	0.48605
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	2.81087
29	7.8540	2.48197	30	8.2468	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			

FUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ;
 DIRECTION 3 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	0.20155
45	39.5000	0.20155									

FUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.;
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ;
 DIRECTION 3 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	0.50827	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	7.6250	1.94099	24	8.0000	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	1.52930	31	10.2000	0.89424	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.; DAMPING = 0.01
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ; AT ELEVATION 807.00 FEET
 FIGURE NO. 1264-B DIRECTION 3

SET NO. = 14
 NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE=1264	DEGREE OF FREEDOM = 3	NUMBER OF GRIDS = 41	DAMPING VALUE = 0.010
1 0.9000	0.13349	2 0.9450	0.13963
5 1.1250	0.20887	6 1.3111	0.20887
9 1.4040	0.29662	10 1.6804	0.29662
13 1.9530	0.43528	14 2.1009	0.43528
17 2.6298	0.45608	18 2.6460	0.45608
21 3.7530	0.74156	22 5.0845	0.74156
25 5.7510	1.19912	26 7.1018	1.19912
29 9.1630	1.31892	30 11.0000	0.45924
33 14.3280	0.41401	34 17.5120	0.41401
37 22.8690	0.28013	38 26.0415	0.18514
41 39.5000	0.15608		

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

SET NO. = 15
 NO. OF SPECTRA = 1

BROADENED 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
5 1.1250	0.20706	6 1.3116	0.22067
9 1.4040	0.30015	10 1.6966	0.33349
13 2.1057	0.40610	14 2.1420	0.43303
17 2.8170	0.42742	18 2.9970	0.49992
21 4.3666	0.43980	22 4.5000	0.47402
25 5.6250	0.53567	26 5.7240	0.53913
29 6.6217	0.66243	30 7.2720	0.68734
33 10.4940	0.38270	34 12.0625	0.29202
37 13.6980	0.37003	38 14.1753	0.37003
41 18.3322	0.30449	42 20.0310	0.30449
45 27.0930	0.12591	46 39.5000	0.11150

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

BROADENED SPECTRUM FOR MODE=1266	DEGREE OF FREEDOM =	NUMBER OF GRIDS = 47	DAMPING VALUE =	SET NO. =
1 0.9000	0.13199	2 0.9450	0.13632	1
5 1.1250	0.17962	6 1.2933	0.17962	1
9 1.6650	0.27021	10 1.7280	0.33091	1
13 2.0525	0.38803	14 2.1420	0.41038	1
17 2.8170	0.50631	18 2.9970	0.59307	1
21 3.9500	1.03679	22 4.3000	1.35298	1
25 5.4630	2.33745	26 5.6250	2.53930	1
29 7.0290	2.50629	30 7.8210	1.28817	1
33 10.4980	0.58503	34 11.0000	0.52056	1
37 14.8998	0.46779	38 16.1480	0.46779	1
41 18.8204	0.37300	42 22.0000	0.37300	1
45 29.4140	0.30023	46 33.9594	0.26155	1

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

BROADENED SPECTRUM FOR MODE=1267	DEGREE OF FREEDOM =	NUMBER OF GRIDS = 46	DAMPING VALUE =	SET NO. =
1 0.9000	0.13064	2 0.9450	0.13512	2
5 1.1250	0.17653	6 1.2923	0.17653	2
9 1.6650	0.26523	10 1.7280	0.32205	2
13 2.0569	0.37776	14 2.1420	0.39733	2
17 2.6460	0.44240	18 2.8170	0.47859	2
21 3.4650	0.61877	22 4.0000	0.93414	2
25 5.0040	1.21825	26 5.4630	2.08021	2
29 6.9960	2.19862	30 7.0290	2.17966	2
33 9.4730	0.69846	34 10.4940	0.49890	2
37 15.0780	0.42354	38 16.1480	0.42354	2
41 18.3991	0.34057	42 22.0000	0.34057	2
45 29.4140	0.25274	46 39.5000	0.21757	2

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

BROADENED SPECTRUM FOR MODE=1268	DEGREE OF FREEDOM =	NUMBER OF GRIDS = 47	DAMPING VALUE =	SET NO. =
1 0.9000	0.12824	2 0.9450	0.13288	3
5 1.1250	0.17088	6 1.2905	0.17088	3
9 1.6650	0.25562	10 1.7280	0.30568	3
13 2.0749	0.36611	14 2.1420	0.37322	3
17 2.9970	0.50324	18 3.4031	0.50324	3
21 4.3000	0.89038	22 4.8706	0.89038	3
25 5.6250	1.57026	26 6.8750	1.57026	3
29 7.8210	0.72048	30 7.8540	0.68383	3
33 10.3532	0.37940	34 14.2120	0.37940	3
37 16.9916	0.33160	38 17.5120	0.33160	3
41 20.5331	0.27920	42 22.8690	0.24920	3
45 36.3000	0.17559	46 37.6411	0.17154	3

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

BROADENED SPECTRUM FOR NODE=1269	DEGREE OF FREEDOM =	NUMBER OF GRIDS = 48	DAMPING VALUE =	SET NO. =
1 0.9000	0.9450	1.0075	0.16457	4
5 1.1250	1.2885	1.3590	0.22437	8
9 1.6650	0.24651	1.8000	0.34368	12
13 2.1155	0.34368	2.5598	0.35972	16
17 2.9970	0.44932	3.7530	0.58651	20
21 4.0860	0.62570	4.8683	0.66947	24
25 5.6250	0.99474	6.9960	0.94286	28
29 7.1260	0.64593	7.7317	0.52233	32
33 10.2065	0.38615	14.2120	0.31618	36
37 15.1303	0.30041	16.7420	0.17025	40
41 17.5120	0.27604	22.8690	0.20271	44
45 29.4140	0.17475	36.3540	0.15180	48

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

BROADENED SPECTRUM FOR NODE=1270	DEGREE OF FREEDOM =	NUMBER OF GRIDS = 45	DAMPING VALUE =	SET NO. =
1 0.9000	0.9450	1.0048	0.16896	4
5 1.2938	1.3230	1.3590	0.22460	8
9 1.7280	1.8720	2.2880	0.31748	12
13 2.6970	0.31748	2.9970	0.36750	16
17 3.7530	0.36890	4.6003	0.36442	20
21 5.6250	0.39238	5.7240	0.40948	24
25 7.0695	0.40061	7.8210	0.34638	28
29 10.4940	0.30116	11.2050	0.32089	32
33 13.9370	0.32089	14.2120	0.21994	36
37 20.0310	0.21994	22.8690	0.11602	40
41 29.4140	0.11602	35.4330	0.11013	44
45 39.5000	0.11013			

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

BROADENED SPECTRUM FOR NODE=1266	DEGREE OF FREEDOM =	NUMBER OF GRIDS = 40	DAMPING VALUE =	SET NO. =
1 0.9000	0.9450	1.0043	0.12102	4
5 1.1250	1.2610	1.3230	0.17341	8
9 1.6607	0.17341	1.7280	0.2172	12
13 1.8720	0.24015	2.3670	0.30611	16
17 2.8170	0.38982	3.2130	0.56853	20
21 3.9373	0.90551	5.1666	1.76904	24
25 5.7240	1.91162	7.0290	1.55791	28
29 9.2730	1.55791	11.0000	1.47082	32
33 16.9621	1.41605	20.0310	0.88074	36
37 27.0930	0.62552	36.3000	0.32395	40

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

BROADENED SPECTRUM FOR NODE=1267	DEGREE OF FREEDOM =	NUMBER OF GRIDS = 40	DAMPING VALUE =	SET NO. =
1 0.9000	0.9450	1.0043	0.12102	4
5 1.1250	1.2610	1.3230	0.17341	8
9 1.6607	0.17341	1.7280	0.2172	12
13 1.8720	0.24015	2.3670	0.30611	16
17 2.8170	0.38982	3.2130	0.56853	20
21 3.9373	0.90551	5.1666	1.76904	24
25 5.7240	1.91162	7.0290	1.55791	28
29 9.2730	1.55791	11.0000	1.47082	32
33 16.9621	1.41605	20.0310	0.88074	36
37 27.0930	0.62552	36.3000	0.32395	40

BROADENED SPECTRUM FOR NODE=1267		DEGREE OF FREEDOM =		NUMBER OF GRIDS = 40		DAMPING VALUE =					
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY ;	DIRECTION 2	AT ELEVATION	0.02	FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY ;	DIRECTION 2	AT ELEVATION	0.02				
FIGURE NO. 1268-B		830.00 FEET		NO. OF SPECTRA = 1		SET NO. = 8					
1	0.9000	0.09228	2	0.9450	0.09541	2	1.0040	0.09541	4	1.0620	0.12110
5	1.1250	0.12642	6	1.2890	0.12642	7	1.3230	0.15336	8	1.3590	0.17357
9	1.6544	0.17157	10	1.6650	0.17445	11	1.7280	0.20404	12	1.8000	0.23222
13	1.8720	0.24056	14	2.1420	0.25550	15	2.3670	0.25968	16	2.5020	0.31331
17	2.8170	0.39834	18	2.9970	0.47296	19	3.2130	0.48076	20	3.4650	0.60316
21	4.1000	0.99222	22	4.5000	1.36245	23	5.2020	1.36245	24	5.6250	1.76165
25	5.7240	1.89750	26	5.7510	1.91108	27	7.0290	1.91108	28	7.5234	1.56509
29	9.2730	1.56509	30	10.4440	1.52161	31	11.0000	1.42165	32	16.7420	1.42165
33	17.1410	1.32835	34	18.5460	1.32835	35	20.0310	1.26469	36	22.8690	0.83722
37	27.0930	0.55882	38	29.4140	0.50744	39	36.3000	0.33497	40	39.5000	0.30141

BROADENED SPECTRUM FOR NODE=1268		DEGREE OF FREEDOM =		NUMBER OF GRIDS = 39		DAMPING VALUE =					
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY ;	DIRECTION 2	AT ELEVATION	0.02	FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY ;	DIRECTION 2	AT ELEVATION	0.02				
FIGURE NO. 1268-B		830.00 FEET		NO. OF SPECTRA = 1		SET NO. = 8					
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	1.6544	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	0.45580	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			

BROADENED SPECTRUM FOR NODE=1269		DEGREE OF FREEDOM =		NUMBER OF GRIDS = 39		DAMPING VALUE =					
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY ;	DIRECTION 2	AT ELEVATION	0.02	FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY ;	DIRECTION 2	AT ELEVATION	0.02				
FIGURE NO. 1269-B		807.00 FEET		NO. OF SPECTRA = 1		SET NO. = 9					
1	0.9000	0.09240	2	0.9450	0.09541	3	1.0042	0.09541	4	1.0620	0.11971
5	1.1250	0.12578	6	1.2893	0.12578	7	1.3230	0.15208	8	1.3590	0.17257
9	1.6619	0.17257	10	1.6650	0.17283	11	1.7280	0.20088	12	1.8000	0.22956
13	1.8720	0.23645	14	2.1420	0.25002	15	2.3670	0.25235	16	2.5020	0.30399
17	2.8170	0.38511	18	2.9970	0.45419	19	3.2130	0.45664	20	3.4650	0.56903
21	4.1000	0.92883	22	4.5000	1.28296	23	5.1754	1.28296	24	5.6250	1.70272
25	5.7240	1.83555	26	5.7510	1.84360	27	7.0290	1.84360	28	7.5429	1.48864
29	9.2730	1.48864	30	10.4940	1.44606	31	11.0000	1.20888	32	15.2130	1.09797
33	16.7420	1.09336	34	18.5460	0.80801	35	20.0310	0.76949	36	22.0000	0.51596
37	27.0930	0.28031	38	29.4140	0.27775	39	39.5000	0.26173			

BROADENED SPECTRUM FOR NODE=1270		DEGREE OF FREEDOM =		NUMBER OF GRIDS = 39		DAMPING VALUE =					
FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY ;	DIRECTION 2	AT ELEVATION	0.02	FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AY ;	DIRECTION 2	AT ELEVATION	0.02				
FIGURE NO. 1270-B		778.00 FEET		NO. OF SPECTRA = 1		SET NO. = 10					
1	0.9000	0.09307	2	0.9450	0.09574	3	1.0043	0.09574	4	1.0620	0.12004
5	1.1250	0.12553	6	1.2895	0.12553	7	1.3230	0.15153	8	1.3590	0.17265
9	1.6681	0.17265	10	1.7280	0.19961	11	1.8000	0.22820	12	1.8720	0.23505
13	2.1420	0.24768	14	2.3670	0.24922	15	2.5020	0.29839	16	2.8170	0.37793
17	2.9970	0.44335	18	3.2130	0.44349	19	3.4650	0.54653	20	3.9667	0.87653
21	4.5000	1.21608	22	5.1370	1.21608	23	5.6250	1.69546	24	5.7510	1.75000
25	11.0290	1.75000	26	7.5018	1.51748	27	9.2730	1.51748	28	12.4440	1.41315
29	13.0900	1.08748	30	11.8324	0.89240	31	12.3897	0.89240	32	10.4470	0.89923
33	15.2130	0.89923	34	16.7420	0.81229	35	17.5120	0.69629	36	18.5460	0.52082

37 22.0000 0.32191 38 29.4140 0.27183 39 39.5000 0.25741

JUST-RFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.; SET NO. = 11
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ; DAMPING = 0.02
 FIGURE NO. 1266-B DIRECTION 3 AT ELEVATION 873.33 FEET NO. OF SPECTRA = 1

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			

JUST-RFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.; SET NO. = 12
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ; DAMPING = 0.02
 FIGURE NO. 1267-B DIRECTION 3 AT ELEVATION 854.33 FEET NO. OF SPECTRA = 1

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

JUST-RFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.; SET NO. = 13
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ; DAMPING = 0.02
 FIGURE NO. 1268-B DIRECTION 3 AT ELEVATION 830.00 FEET NO. OF SPECTRA = 1

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			

JUST-RFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.; SET NO. = 14
 FLOOR RESPONSE SPECTRA FOR 1/2 SSE; COMPONENT AZ; DAMPING = 0.02
 FIGURE NO. 1269-B DIRECTION 3 AT ELEVATION 807.00 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE = 1269		DEGREE OF FREEDOM =		NUMBER OF GRIDS = 41		DAMPING VALUE =	
1	0.9000	0.12480	2	0.9450	0.13070	4	1.0620
5	1.1250	0.16648	6	1.2906	0.16648	8	1.5963
9	1.6650	0.24644	10	1.7280	0.29226	12	1.8720
13	2.2880	0.34489	14	2.3182	0.34227	16	2.5020
17	2.8170	0.40322	18	2.9970	0.44446	20	3.7530
21	5.0040	0.60794	22	5.4630	0.70806	24	6.8200
25	7.2120	1.00724	26	7.4970	1.02036	28	10.4940
29	11.0000	0.39203	30	12.1280	0.27526	32	13.7262
33	14.1358	0.27409	34	14.3280	0.28601	36	18.0824
37	22.0000	0.25381	38	26.9677	0.15621	40	35.4350
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		DAMPING VALUE =	
1	0.9000	0.12885	2	0.9450	0.13445	4	1.0620
5	1.2940	0.17049	6	1.3230	0.18551	8	1.6260
9	1.7280	0.27064	10	1.8720	0.32356	12	2.3241
13	2.6892	0.31932	14	2.9970	0.37115	16	3.7249
17	4.5870	0.36417	18	4.6506	0.33057	20	5.4630
21	5.6250	0.42767	22	5.7240	0.43017	24	6.3990
25	6.5084	0.54386	26	7.2720	0.71136	28	9.1630
29	10.4940	0.28128	30	12.3200	0.23493	32	12.7089
33	13.2120	0.27016	34	13.6900	0.28176	36	14.3280
37	17.5120	0.29939	38	18.0448	0.26676	40	22.8690
41	27.0930	0.12329	42	39.5000	0.11160		

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

BROADENED SPECTRUM FOR MODE=1241	DEGREE OF FREEDOM =	NUMBER OF GRIDS = 51	DAMPING VALUE =	SET NO. = 1							
1	0.9000	0.26319	2	0.9450	0.27237	3	1.0100	0.27237	4	1.0670	0.33871
5	1.1250	0.35832	6	1.2926	0.35832	7	1.3590	0.47561	8	1.5741	0.47561
9	1.6650	0.53973	10	1.7280	0.65956	11	1.8000	0.66681	12	1.8720	0.77404
13	2.0533	0.77404	14	2.1420	0.81944	15	2.4119	0.81944	16	2.6460	0.92392
17	2.8170	1.00485	18	2.9970	1.17880	19	3.3138	1.17880	20	3.4650	1.29188
21	4.0500	1.98413	22	4.3000	2.46378	23	5.0642	2.46378	24	5.4630	3.57924
25	5.6250	3.73090	26	6.8750	3.73090	27	6.9960	3.70296	28	7.0290	3.66849
29	7.1280	3.23999	30	7.8210	2.13946	31	7.8540	2.01070	32	9.1369	1.32487
33	9.2730	1.32487	34	10.4940	1.00842	35	11.0000	0.82365	36	11.3529	0.77284
37	11.4030	0.77284	38	11.6280	0.83350	39	14.2120	0.83350	40	14.6630	0.79316
41	14.7611	0.78368	42	16.1400	0.78368	43	16.7420	0.76972	44	17.1557	0.68032
45	17.5120	0.68032	46	18.5460	0.59117	47	18.7320	0.59146	48	22.0000	0.59146
49	22.8690	0.59003	50	35.0932	0.39445	51	39.5000	0.39445			

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. 2
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.02
 FIGURE NO. 1242-B DIRECTION 1 AT ELEVATION 854.33 FEET

BROADENED SPECTRUM FOR MODE=1242	DEGREE OF FREEDOM =	NUMBER OF GRIDS = 46	DAMPING VALUE =	SET NO. = 2							
1	0.9000	0.26057	2	0.9450	0.26993	3	1.0094	0.26993	4	1.0620	0.33688
5	1.1250	0.35237	6	1.2916	0.35237	7	1.3590	0.46980	8	1.5772	0.46980
9	1.6650	0.52996	10	1.7280	0.68166	11	1.8000	0.65286	12	1.8720	0.75512
13	2.0609	0.75512	14	2.1420	0.79364	15	2.4201	0.79364	16	2.6170	0.95683
17	2.9970	1.11600	18	3.3477	1.11600	19	3.4650	1.18588	20	4.1500	1.79136
21	4.4500	2.16790	22	5.0478	2.16790	23	5.4630	3.12943	24	5.6250	3.27195
25	6.8750	3.27195	26	6.9960	3.23597	27	7.0290	3.20254	28	7.1280	2.80382
29	7.8210	1.79824	30	7.8540	1.68453	31	9.1199	1.27372	32	9.2730	1.27372
33	11.0000	0.68458	34	11.2963	0.68458	35	11.4030	0.71255	36	11.6280	0.74038
37	14.2120	0.74038	38	14.6630	0.71257	39	14.8442	0.70079	40	16.1480	0.70079
41	17.5120	0.65048	42	18.5051	0.54208	43	22.0000	0.54208	44	27.0930	0.40520
45	29.4140	0.39705	46	39.5000	0.33919						

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

BROADENED SPECTRUM FOR MODE=1243	DEGREE OF FREEDOM =	NUMBER OF GRIDS = 46	DAMPING VALUE =	SET NO. = 3							
1	0.9000	0.25602	2	0.9450	0.26554	3	1.0083	0.26554	4	1.0620	0.33264
5	1.1250	0.34123	6	1.2897	0.34123	7	1.3590	0.45919	8	1.5848	0.45919
9	1.6650	0.51011	10	1.7280	0.60965	11	1.8000	0.62733	12	1.8720	0.71959
13	2.0764	0.71959	14	2.1420	0.74507	15	2.4916	0.74507	16	2.6460	0.78971
17	2.9970	1.00796	18	3.4673	1.00296	19	4.0000	1.44988	20	4.1490	1.64721
21	5.0382	1.64721	22	5.4630	2.22977	23	5.6250	2.35059	24	6.8750	2.35059
25	6.9960	2.30721	26	7.0290	2.26209	27	7.1280	1.96940	28	7.7521	1.21782
29	8.0880	1.21782	30	9.2730	1.10561	31	10.4940	0.63220	32	10.5562	0.61801
33	13.6950	0.61801	34	13.9370	0.61282	35	14.2120	0.60583	36	14.3481	0.60149
37	16.1480	0.60149	38	16.7420	0.57981	39	16.9550	0.55525	40	17.5120	0.55525
41	18.5460	0.42917	42	20.6951	0.39915	43	22.8690	0.39915	44	27.0930	0.33998

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

BROADENED SPECTRUM FOR MODE=1244	DEGREE OF FREEDOM =	NUMBER OF GRIDS = 47	DAMPING VALUE =
1 0.9000	0.9450	1.0073	0.26182
5 1.1250	0.33031	1.3590	0.44982
9 1.6110	0.45506	1.8000	0.60256
13 2.0960	0.68696	2.5694	0.70166
17 2.5793	0.89731	3.7530	0.81368
21 4.1498	1.20791	5.4630	1.45774
25 6.8750	1.52881	7.0290	1.42785
29 7.6859	1.05300	10.3936	0.58460
33 11.4030	0.62883	14.2120	0.60173
37 14.6733	0.51483	16.7420	0.49511
41 17.5120	0.47655	22.8690	0.40963
45 36.3000	0.25416	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

BROADENED SPECTRUM FOR MODE=1245	DEGREE OF FREEDOM =	NUMBER OF GRIDS = 46	DAMPING VALUE =
1 0.9000	0.25484	1.0048	0.26584
5 1.2938	0.33766	1.3590	0.44892
9 1.7280	0.53658	2.2880	0.64224
13 2.6960	0.63423	2.9970	0.73545
17 3.6796	0.72798	4.6019	0.71727
21 5.7240	0.81034	7.0290	0.79901
25 7.8210	0.78015	9.1630	0.68036
29 11.0000	0.58029	11.4030	0.54734
33 14.2120	0.51975	15.3849	0.39482
37 18.5460	0.39253	22.0000	0.36926
41 26.6227	0.21377	33.4660	0.19942
45 36.0000	0.20025		

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

SET NO. = 6
NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR MODE=1241	DEGREE OF FREEDOM =	NUMBER OF GRIDS = 39	DAMPING VALUE =
1 0.9000	0.18543	1.0037	0.19127
5 1.1250	0.25544	1.3230	0.30587
9 1.6610	0.34652	1.6650	0.34634
13 2.0960	0.46276	2.1420	0.50536
17 2.5820	0.60840	2.9970	0.91110
21 4.0000	1.75387	5.1527	2.53223
25 5.7240	3.70798	7.0290	3.73272
29 9.2730	2.89502	11.0000	2.54600
33 17.1734	2.35321	20.0310	2.22381
37 29.4140	0.96509	39.5000	0.54729

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

SET NO. = 7
NO. OF SPECTRA = 1

BROADBAND SPECTRUM FOR MODE - 1242

FLOOR	RESPONSE SPECTRA FOR SSE; COMPONENT 1	DIRECTION 2	AT ELEVATION 830.00 FEET	DEGREE OF FREEDOM = 2	NUMBER OF GRIDS = 39	DAMPING VALUE =
1	0.9000	0.18546	2	0.9450	0.19132	0.020
5	1.1250	0.25178	6	1.2886	0.30604	0.24131
9	1.6617	0.34687	10	1.6650	0.40755	0.34687
13	1.8120	0.47965	14	2.1420	0.51443	0.46374
17	2.8170	0.79205	18	2.9970	0.94336	0.62128
21	4.6200	2.62943	22	5.1067	3.41329	1.91117
25	5.7510	3.69720	26	7.0290	2.90444	3.68075
29	10.4040	2.76254	30	11.0000	2.45112	2.90444
33	17.3005	2.22010	34	18.5460	2.12414	2.28094
37	27.0973	0.98572	38	36.3000	0.56646	1.42923

POST-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.:

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT 1 AT ELEVATION 830.00 FEET

FIGURE NO. 1243-B DIRECTION 2

SET NO. = 8

NO. OF SPECTRA = 1

BROADBAND SPECTRUM FOR MODE - 1243

FLOOR	RESPONSE SPECTRA FOR SSE; COMPONENT 1	DIRECTION 2	AT ELEVATION 830.00 FEET	DEGREE OF FREEDOM = 2	NUMBER OF GRIDS = 37	DAMPING VALUE =
1	0.9000	0.18377	2	0.9450	0.19015	0.020
5	1.1250	0.24999	6	1.2892	0.24999	0.23953
9	1.6617	0.34439	10	1.7280	0.40006	0.34439
13	2.1420	0.49653	14	2.3670	0.50205	0.47063
17	2.9970	0.90102	18	3.2130	0.90121	0.76408
21	5.2062	2.52187	22	5.6250	3.18576	2.52187
25	7.0290	3.42902	26	7.6493	2.63898	3.42902
29	11.0000	2.16553	30	16.7420	2.16553	2.62632
33	20.0310	1.70280	34	22.8690	1.07661	1.75051
37	39.5000	0.48408	38	39.5000	0.62664	0.48923

BROADBAND SPECTRUM FOR MODE - 1244

FLOOR	RESPONSE SPECTRA FOR SSE; COMPONENT 1	DIRECTION 2	AT ELEVATION 807.00 FEET	DEGREE OF FREEDOM = 2	NUMBER OF GRIDS = 39	DAMPING VALUE =
1	0.9000	0.18517	2	0.9450	0.19084	0.020
5	1.1250	0.25051	6	1.2895	0.25051	0.24056
9	1.6610	0.34485	10	1.6629	0.34368	0.34485
13	1.8000	0.45809	14	1.8720	0.47155	0.39997
17	2.5020	0.60383	18	2.8170	0.76540	0.50211
21	4.2000	1.79105	22	4.6500	2.48216	0.89817
25	5.7240	3.42336	26	7.0290	3.42336	3.29838
29	10.4040	2.62081	30	11.0000	2.04725	2.77035
33	16.7420	1.80876	34	18.5460	1.38152	1.99132
37	27.0930	0.51481	38	29.4140	0.51387	2.77035

POST-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.:

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT 1 AT ELEVATION 778.00 FEET

FIGURE NO. 1245-B DIRECTION 2

SET NO. = 10

NO. OF SPECTRA = 1

BROADBAND SPECTRUM FOR MODE - 1245

FLOOR	RESPONSE SPECTRA FOR SSE; COMPONENT 1	DIRECTION 2	AT ELEVATION 778.00 FEET	DEGREE OF FREEDOM = 2	NUMBER OF GRIDS = 39	DAMPING VALUE =
1	0.9000	0.18636	2	0.9450	0.19141	0.020
5	1.1250	0.25005	6	1.2894	0.25005	0.24024
9	1.6610	0.34462	10	1.6644	0.34251	0.34462
13	1.8000	0.45560	14	1.8720	0.46885	0.39728
17	2.5020	0.59371	18	2.8170	0.75182	0.49518
21	4.1000	1.70027	22	4.5000	2.36006	0.81674
25	5.7240	3.41088	26	7.0290	3.41088	3.28065
29	10.4040	2.55639	30	11.0000	1.98204	2.81037
						1.64207

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.; DAMPING = 0.02
 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

BROADENED SPECTRUM FOR MODE=1241 DEGREE OF FREEDOM = 3 NUMBER OF GRIDS = 41 DAMPING VALUE = 0.020

1	0.9030	0.25912	2	0.9450	0.26919	3	1.0063	0.26919	4	1.0620	0.34198
5	1.1250	0.36697	6	1.2979	0.41693	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.; DAMPING = 0.02
 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

BROADENED SPECTRUM FOR MODE=1242 DEGREE OF FREEDOM = 3 NUMBER OF GRIDS = 38 DAMPING VALUE = 0.020

1	0.9000	0.25687	2	0.9450	0.26697	3	1.0064	0.26697	4	1.0620	0.33944
5	1.1250	0.35844	6	1.2965	0.35845	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.; DAMPING = 0.02
 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

BROADENED SPECTRUM FOR MODE=1243 DEGREE OF FREEDOM = 3 NUMBER OF GRIDS = 37 DAMPING VALUE = 0.020

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.; DAMPING = 0.02
 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

BROADENED SPECTRUM FOR MODE=1244 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						

SET NO. = 15

NO. OF SPECTRA = 1

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. ;

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

FIGURE NO. 1245-B DIRECTION 3 AT ELEVATION 778.00 FEET

1	0.9000	0.25681	2	0.9450	0.26854	3	1.0049	0.26854	4	1.0620	0.34057
5	1.2940	0.34057	6	1.3230	0.37054	7	1.3590	0.45300	8	1.6262	0.45300
9	1.7280	0.54003	10	1.8720	0.64638	11	2.2880	0.64638	12	2.3252	0.63765
13	2.6907	0.63765	14	2.9970	0.75206	15	5.4630	0.75206	16	5.6250	0.84681
17	5.7240	0.85359	18	6.0049	0.85359	19	6.3990	1.04248	20	7.2720	1.29759
21	8.8880	1.29759	22	9.1630	1.21600	23	10.4940	0.54550	24	11.4666	0.50290
25	13.2120	0.50290	26	13.8365	0.50290	27	14.3280	0.51875	28	17.5120	0.51875
29	18.2949	0.46659	30	20.0310	0.46659	31	22.8690	0.27760	32	27.0930	0.22198
33	29.4140	0.21906	34	38.9540	0.20484	35	39.5000	0.20484			

DAMPING VALUE =

NUMBER OF GRIDS = 35

TUSTI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. ;
 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	DEGREE OF FREEDOM =	NUMBER OF GRIDS = 40	DAMPING VALUE =	SET NO. = 1							
1	0.9000	0.24703	2	0.9450	0.25630	3	1.0063	0.25630	4	1.0620	0.29998
5	1.2870	0.33261	6	1.3590	0.38434	7	1.4097	0.38434	8	1.4490	0.41884
9	1.5030	0.43341	10	1.5760	0.43341	11	1.7280	0.55278	12	1.8000	0.56281
13	1.8720	0.63757	14	2.0548	0.63757	15	2.3670	0.71342	16	2.5020	0.71915
17	2.6460	0.79854	18	2.9970	0.96597	19	3.2130	0.98598	20	3.4650	1.19596
21	4.0000	1.67787	22	4.3000	2.11812	23	5.0426	2.11812	24	5.4630	3.00089
25	5.6250	3.08721	26	6.8750	3.08721	27	6.9960	3.07572	28	7.0290	3.03735
29	7.8210	1.81080	30	9.2730	1.12587	31	11.6302	0.70909	32	14.2120	0.70909
33	14.2214	0.70900	34	16.1480	0.70900	35	16.7420	0.69281	36	17.5120	0.61552
37	19.7026	0.54140	38	22.8690	0.54140	39	35.4143	0.38735	40	39.5000	0.38735

TUSTI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. ;
 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	DEGREE OF FREEDOM =	NUMBER OF GRIDS = 44	DAMPING VALUE =	SET NO. = 2							
1	0.9000	0.24452	2	0.9450	0.25392	3	1.0052	0.25392	4	1.0620	0.29326
5	1.2870	0.32841	6	1.3590	0.38006	7	1.4108	0.38006	8	1.4490	0.41058
9	1.5030	0.42483	10	1.5758	0.42483	11	1.7280	0.53989	12	1.8000	0.55118
13	1.8720	0.62088	14	2.0598	0.62088	15	2.3670	0.68804	16	2.5187	0.68804
17	2.6460	0.76059	18	2.9970	0.91088	19	3.2130	0.92581	20	3.4650	1.09884
21	4.0000	1.51493	22	4.3500	1.86523	23	5.0350	1.86523	24	5.4630	2.62730
25	5.6250	2.70854	26	6.8750	2.70854	27	6.9960	2.67018	28	7.0290	2.65440
29	7.8210	1.53834	30	9.2730	1.10225	31	9.2730	1.08597	32	10.4940	0.73202
33	11.4675	0.62911	34	11.6280	0.62911	35	11.9970	0.63945	36	14.6630	0.63945
37	14.7781	0.63280	38	16.1480	0.63280	39	17.5120	0.57565	40	18.5460	0.49732
41	22.0000	0.49017	42	27.0930	0.38461	43	29.4140	0.38345	44	39.5000	0.33923

TUSTI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. ;
 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	DEGREE OF FREEDOM =	NUMBER OF GRIDS = 45	DAMPING VALUE =	SET NO. = 3							
1	0.9000	0.24003	2	0.9450	0.24998	3	1.0036	0.24998	4	1.0620	0.29450
5	1.2870	0.32057	6	1.3590	0.37213	7	1.4130	0.37213	8	1.4490	0.39555
9	1.5030	0.40905	10	1.5763	0.40905	11	1.7280	0.51140	12	1.8000	0.52968
13	1.8720	0.59151	14	2.0831	0.59151	15	2.3670	0.63865	16	2.5366	0.63865
17	2.6460	0.68998	18	2.9970	0.81033	19	3.2130	0.81634	20	3.4650	0.93054
21	3.7530	1.22761	22	3.8794	1.22761	23	4.0860	1.38406	24	4.1490	1.41581
25	5.0559	1.41581	26	5.4630	1.88047	27	5.6250	1.94211	28	6.8750	1.94211
29	6.9960	1.90136	30	7.0290	1.88200	31	7.8035	1.02947	32	8.8880	1.02947
33	9.2730	0.94335	34	10.4940	0.57279	35	10.5826	0.55773	36	13.6950	0.55773
37	14.0595	0.53968	38	16.1480	0.53968	39	17.5120	0.48744	40	18.5460	0.40045
41	20.6041	0.37277	42	22.8690	0.37277	43	27.0930	0.32915	44	29.4140	0.29971
45	39.5000	0.27727									

TUSTI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG. ;
 SET NO. = 4

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.03 AT ELEVATION 807.00 FEET

Table with columns: FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.03 AT ELEVATION 807.00 FEET. Includes sub-headers for BROADENED SPECTRUM FOR MODE=1249, DEGREE OF FREEDOM, NUMBER OF GRIDS, DAMPING VALUE, and NO. OF SPECTRA.

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.; FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.03 AT ELEVATION 778.00 FEET

Table with columns: TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.; FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.03 AT ELEVATION 778.00 FEET. Includes sub-headers for BROADENED SPECTRUM FOR MODE=1250, DEGREE OF FREEDOM, NUMBER OF GRIDS, DAMPING VALUE, and NO. OF SPECTRA.

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.; FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.03 AT ELEVATION 873.33 FEET

Table with columns: TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.; FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.03 AT ELEVATION 873.33 FEET. Includes sub-headers for BROADENED SPECTRUM FOR MODE=1246, DEGREE OF FREEDOM, NUMBER OF GRIDS, DAMPING VALUE, and NO. OF SPECTRA.

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.; FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.03 AT ELEVATION 854.33 FEET

Table with columns: TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.; FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.03 AT ELEVATION 854.33 FEET. Includes sub-headers for BROADENED SPECTRUM FOR MODE=1247, DEGREE OF FREEDOM, NUMBER OF GRIDS, DAMPING VALUE, and NO. OF SPECTRA.

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	2.29897	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.; SET NO. = 12
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ; DAMPING = 0.03
 FIGURE NO. 1247-B DIRECTION 3 AT ELEVATION 854.33 FEET 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.; SET NO. = 13
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ; DAMPING = 0.03
 FIGURE NO. 1248-B DIRECTION 3 AT ELEVATION 830.00 FEET 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.; SET NO. = 14
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ; DAMPING = 0.03
 FIGURE NO. 1249-B DIRECTION 3 AT ELEVATION 807.00 FEET 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	8.8880	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	

TUSI-REFINED RESPONSE SPECTRA FOR ELECTRICAL BLDG.; DAMPING = 0.03
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ; AT ELEVATION 778.00 FEET
 FIGURE NO. 1250-B DIRECTION 3

BROADENED SPECTRUM FOR NODE-1250	DEGREE OF FREEDOM =	NUMBER OF GRIDS =	DAMPING VALUE =	NO. OF SPECTRA =	SET NO. =
1 0.9000	2 0.9450	3 0.9990	4 1.0620	1	15
5 1.2870	6 1.3590	7 1.5030	8 1.6110		
9 1.6650	10 1.8720	11 2.2315	12 2.2500		
13 2.6840	14 2.8170	15 2.9970	16 3.7386		
17 3.7530	18 5.4630	19 5.6250	20 5.7240		
21 5.9460	22 6.3990	23 7.2720	24 8.8880		
25 9.1630	26 10.4940	27 12.1605	28 16.1480		
29 17.5120	30 17.7745	31 20.0310	32 22.8690		
33 27.0930	34 39.4097	35 39.5000			