8005200645

FRB-5R A

A

INSTRUCTURE RESPONSE SPECTRA FOR

CONTAINMENT BUILDING

TUSI NUCLEAR POWER PLANT

GIBBS & HILL

AUGUST 1976

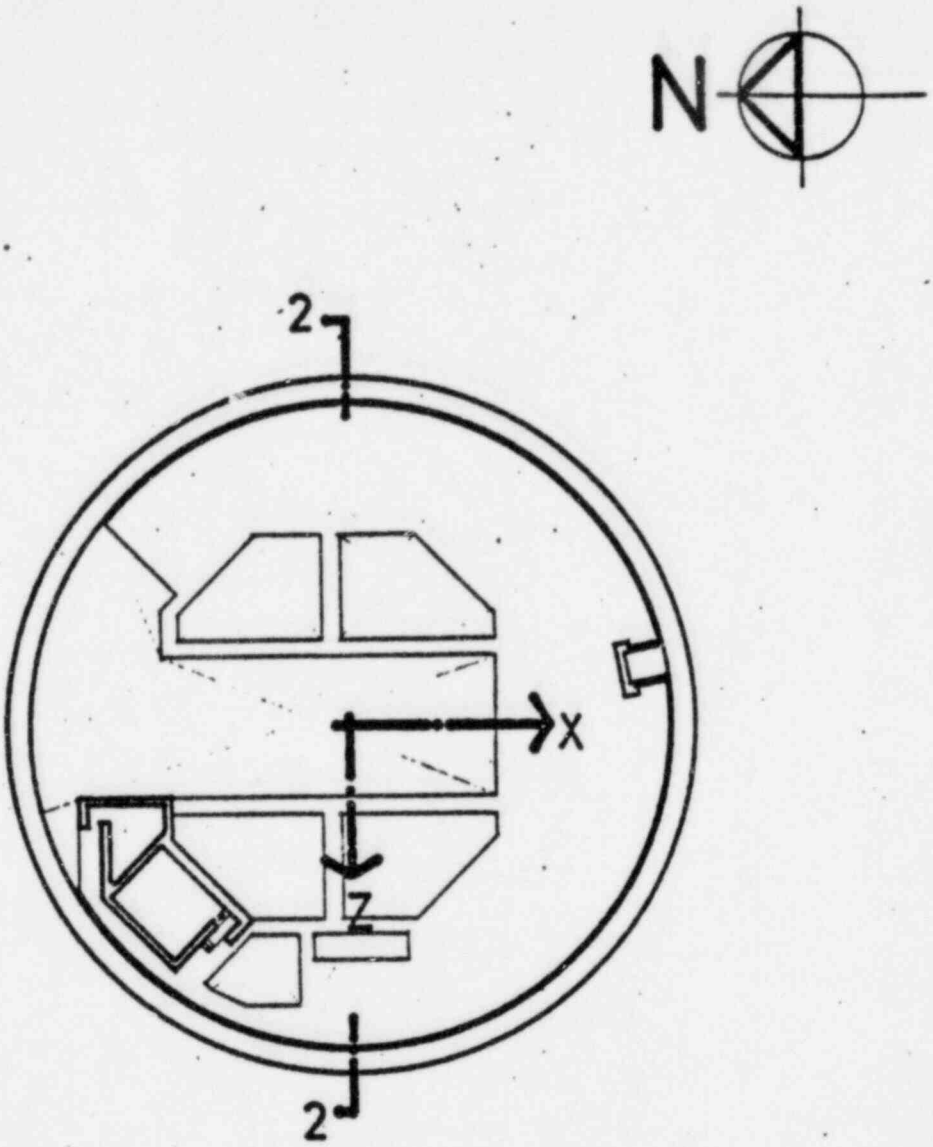
RESPONSE SPECTRA FOR TUSI - REACTOR BUILDING

The instructure response spectra for the Containment Bldg. are presented in Figures 1106-A through 1147-A, which are summarized in Tables No. 1 through 3.

Six figures, for example, Figures 1106-A through 1111-A, represent a complete set of instructure response spectra for a specific value of equipment damping due to the combined effect of SSE earthquake excitations in the vertical direction (Y) and the two principal horizontal directions (X & Z).

Each figure refers to a specific floor of the building, and contains three curves labeled Ax, Ay and Az, which respectively represent the spectra in the X, Y and Z directions due to the combined effect of the three simultaneous earthquakes.

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



NOTE: ORIGIN OF COORDINATES IS AT EL. 805'-6"

PLAN ELEVATION 905' 9"

TUSI

REACTOR BUILDING

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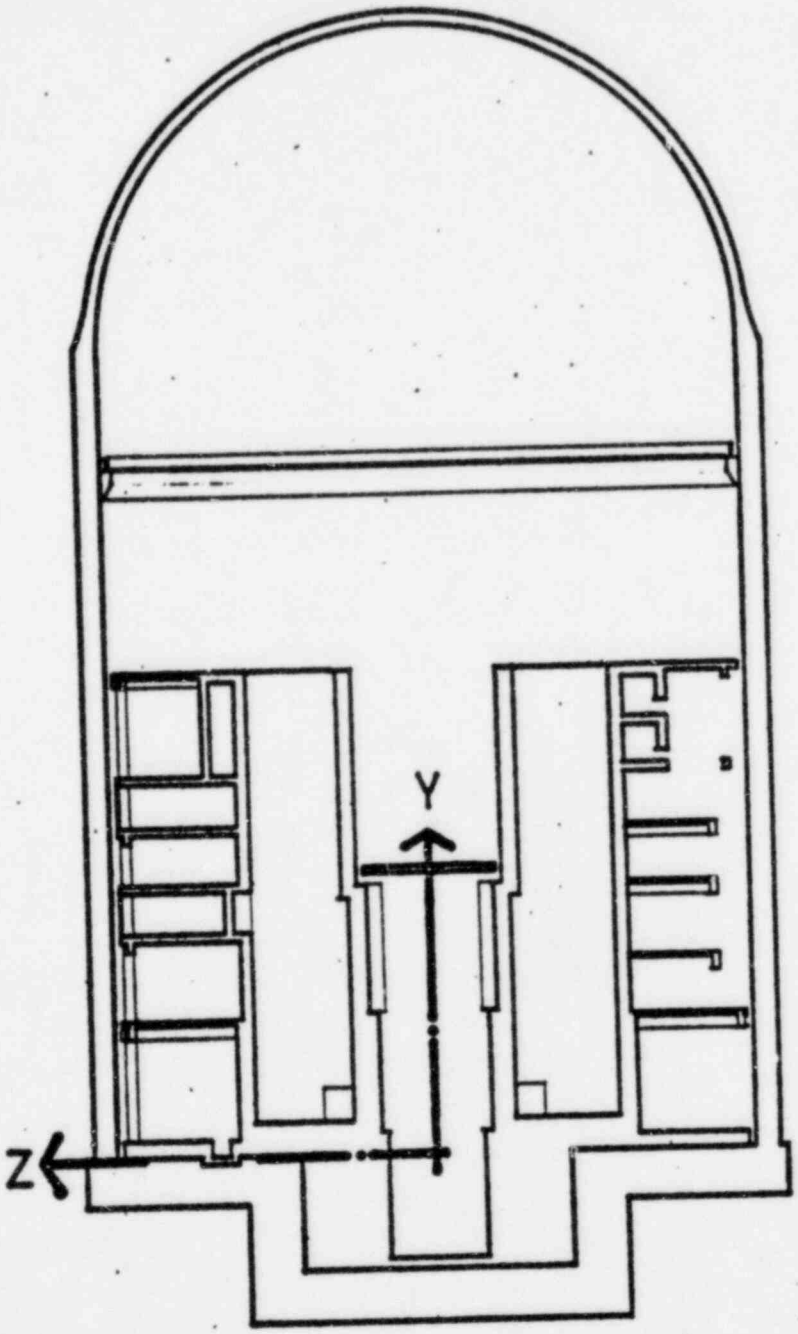
SCALE: 1/8" - 5'0"

SKETCH 1

B/M JDM PC

ISSUED FOR

APPROVALS



SECTION 2-2

TUSI
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SCALE - 1/8" - 5'0"

SKETCH 2

D/X JCM PO

APPROVALS

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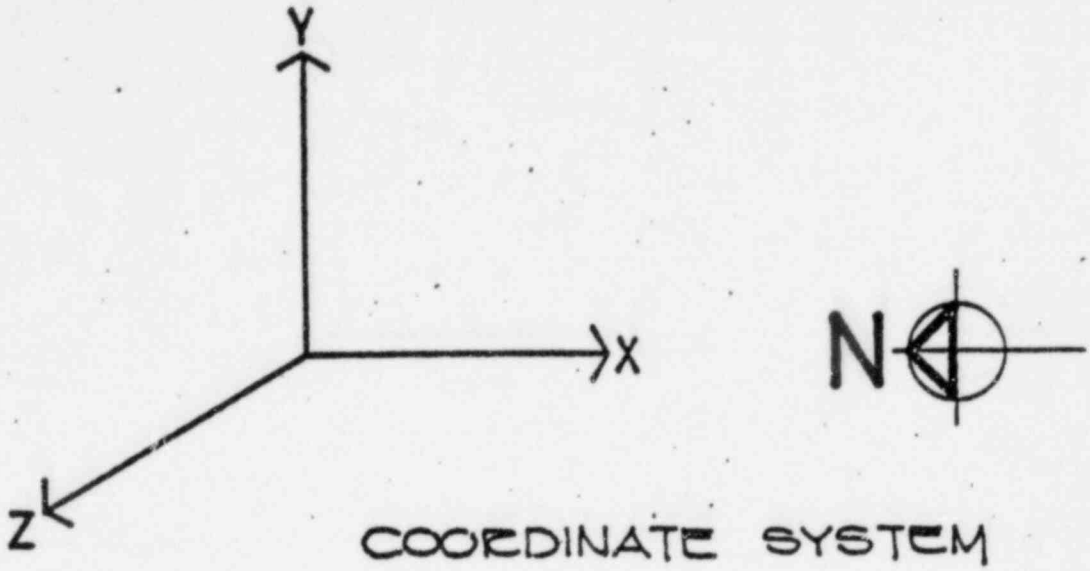
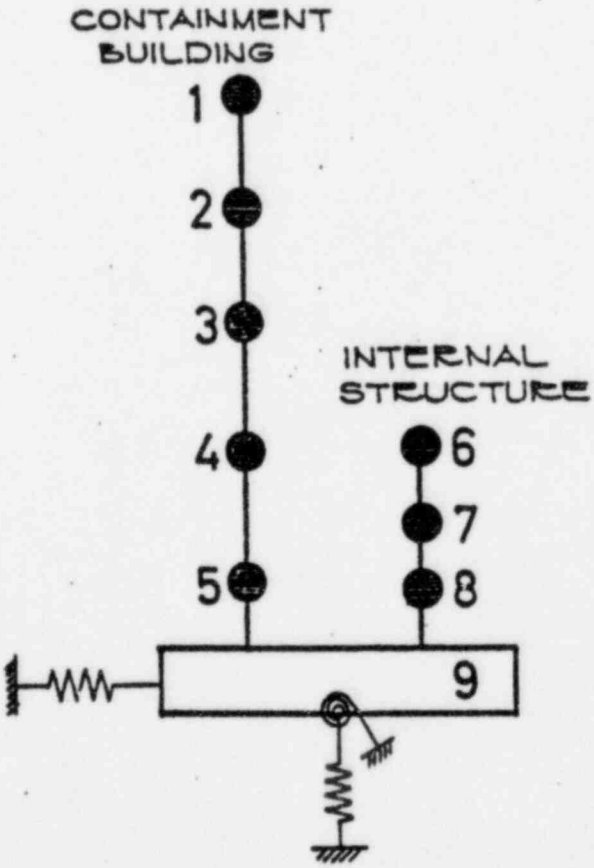


COORDINATE SYSTEM



DYNAMIC MODEL

TUSI

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SCALE: -

SKETCH 3

APPROVALS

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SUMMARY OF RESPONSE SPECTRA

FIG.	NODAL LOCATION (ELEVATION)	DAMPING %	EARTH QUAKE	TYPE OF NODAL MOTION
1106-A	1000.50 FT.	2	SSE	TRANSL. & ROT.
1107-A	950.58	2	SSE	"
1108-A	905.75	2	SSE	"
1109-A	860.00	2	SSE	"
1110-A	805.50	2	SSE	"
1111-A	783.58	2	SSE	"
1112-A	1000.50 FT.	3	SSE	TRANSL. & ROT.
1113-A	950.58	3	SSE	"
1114-A	905.75	3	SSE	"
1115-A	860.00	3	SSE	"
1116-A	805.50	3	SSE	"
1117-A	783.58	3	SSE	"
1118-A	1000.50 FT.	4	SSE	TRANSL. & ROT.
1119-A	950.58	4	SSE	"
1120-A	905.75	4	SSE	"
1121-A	860.00	4	SSE	"
1122-A	805.50	4	SSE	"
1123-A	783.58	4	SSE	"

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CONTAINMENT BLDG.

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SCALE: -

TABLE 1

B/G JDM CLM

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SUMMARY OF RESPONSE SPECTRA				
FIG.	NODAL LOCATION (ELEVATION)	DAMPING %	EARTH-QUAKE	TYPE OF NODAL MOTION
1124-A	1000.50 FT.	7	SSE	TRANSL. & ROT.
1125-A	950.58	7	SSE	"
1126-A	905.75	7	SSE	"
1127-A	860.00	7	SSE	"
1128-A	805.50	7	SSE	"
1129-A	783.58	7	SSE	"

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SCALE: -

TABLE 2

CEM

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SUMMARY OF RESPONSE SPECTRA

FIG.	NODAL LOCATION (ELEVATION)	DAMPING %	EARTH-QUAKE	TYPE OF NODAL MOTION
1130-A	1000.50 FT.	1	1/2 SSE	TRANSL. & ROT.
1131-A	950.58	1	1/2 SSE	"
1132-A	905.75	1	1/2 SSE	"
1133-A	860.00	1	1/2 SSE	"
1134-A	805.50	1	1/2 SSE	"
1135-A	783.58	1	1/2 SSE	"
1136-A	1000.50 FT.	2	1/2 SSE	TRANSL. & ROT.
1137-A	950.58	2	1/2 SSE	"
1138-A	905.75	2	1/2 SSE	"
1139-A	860.00	2	1/2 SSE	"
1140-A	805.50	2	1/2 SSE	"
1141-A	783.58	2	1/2 SSE	"
1142-A	1000.50 FT.	4	1/2 SSE	TRANSL. & ROT.
1143-A	950.58	4	1/2 SSE	"
1144-A	905.75	4	1/2 SSE	"
1145-A	860.00	4	1/2 SSE	"
1146-A	805.50	4	1/2 SSE	"
1147-A	783.58	4	1/2 SSE	"

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SCALE: -

TABLE 3

B/G JCH CEM

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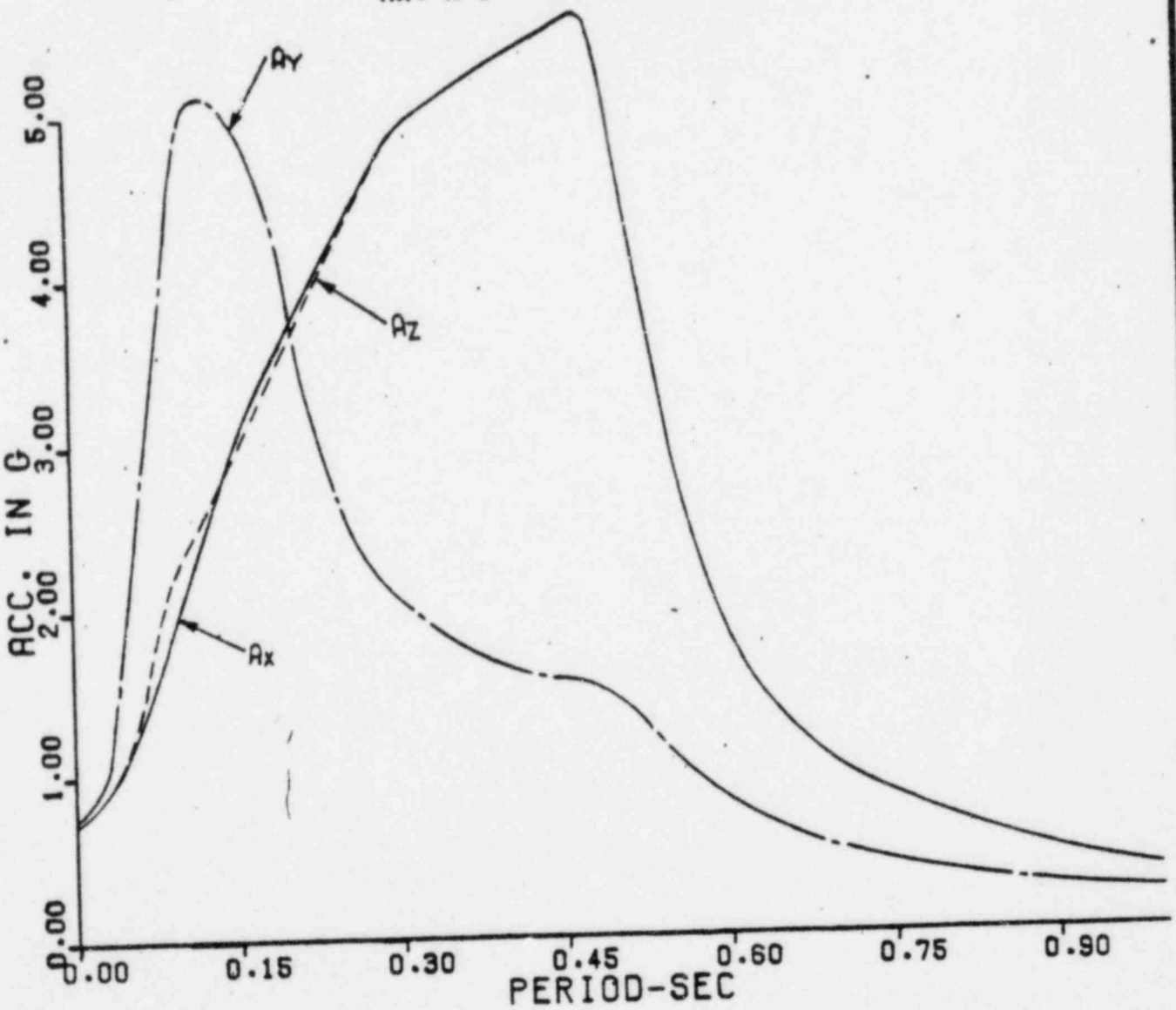
IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 1000.50 FT.
EQUIPMENT DAMPING: 0.02
SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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JOB NO. 2325-A

SCALE:-

FIGURE 1106A

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IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 950.58 FT.
EQUIPMENT DAMPING: 0.02
SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E W

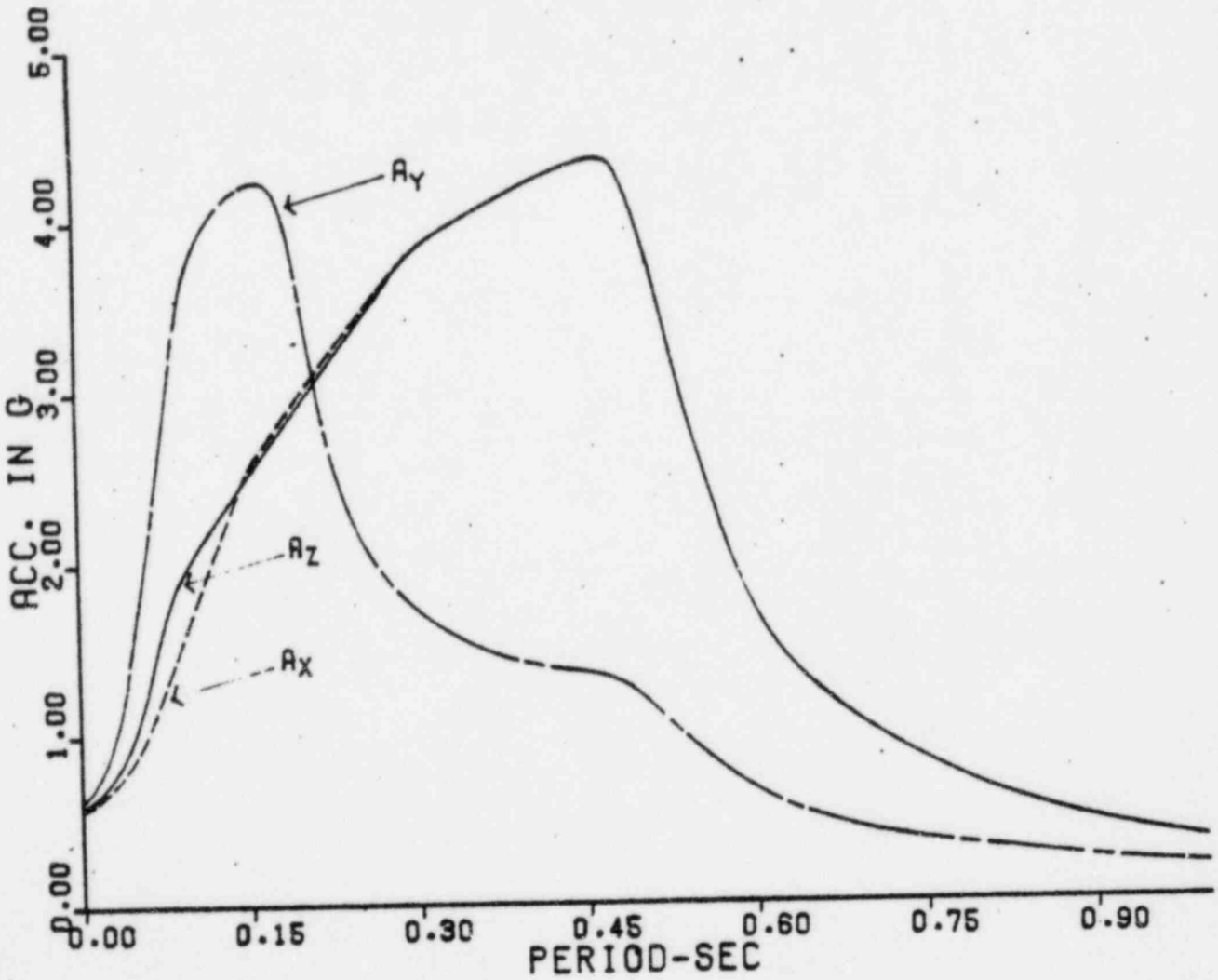

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FIGURE 1107A

JOB NO. 2323-A

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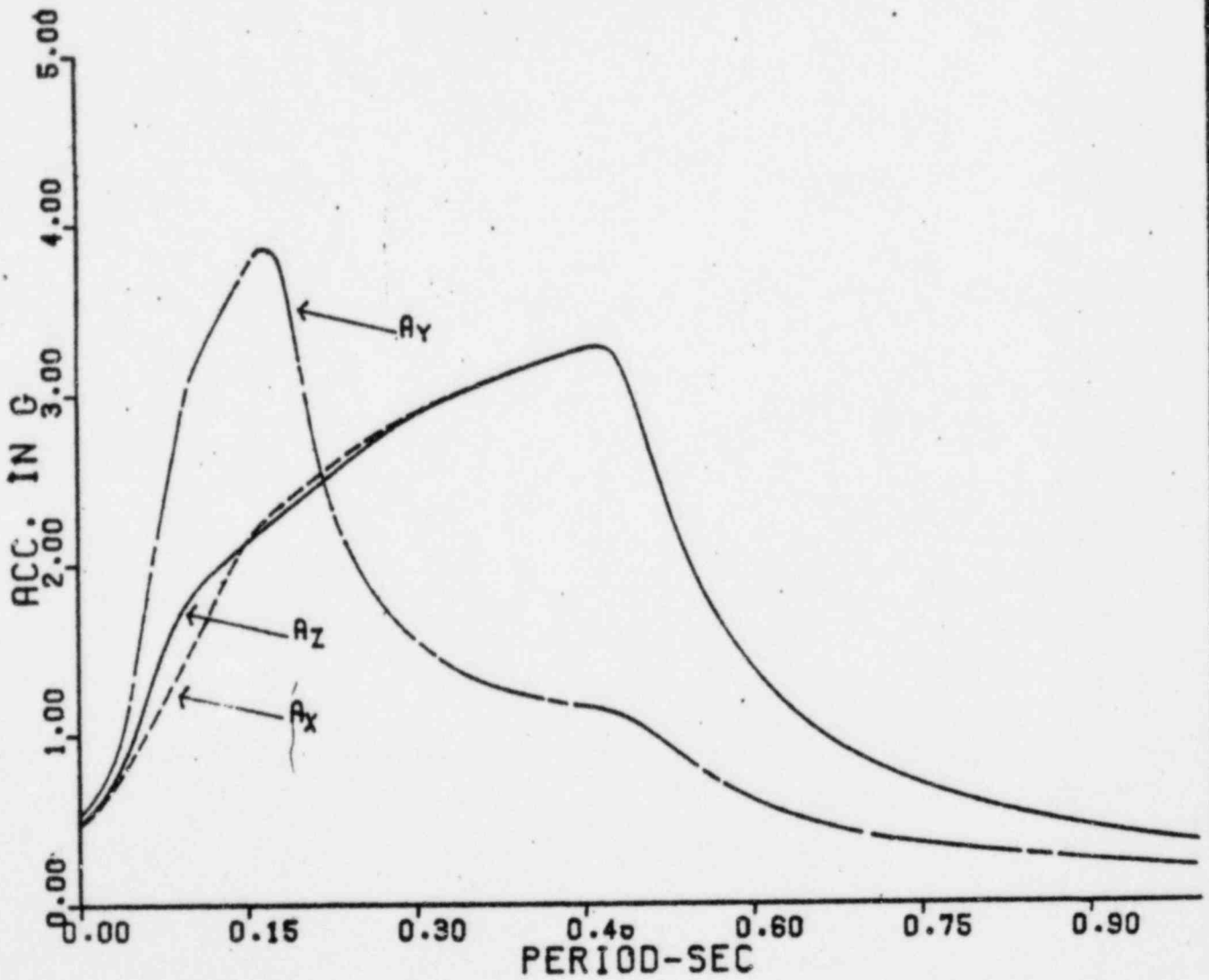
IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 205.75 FT.
EQUIPMENT DAMPING: 0.02
SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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SCALE:-

JOB NO. 2325-A

FIGURE 1108A

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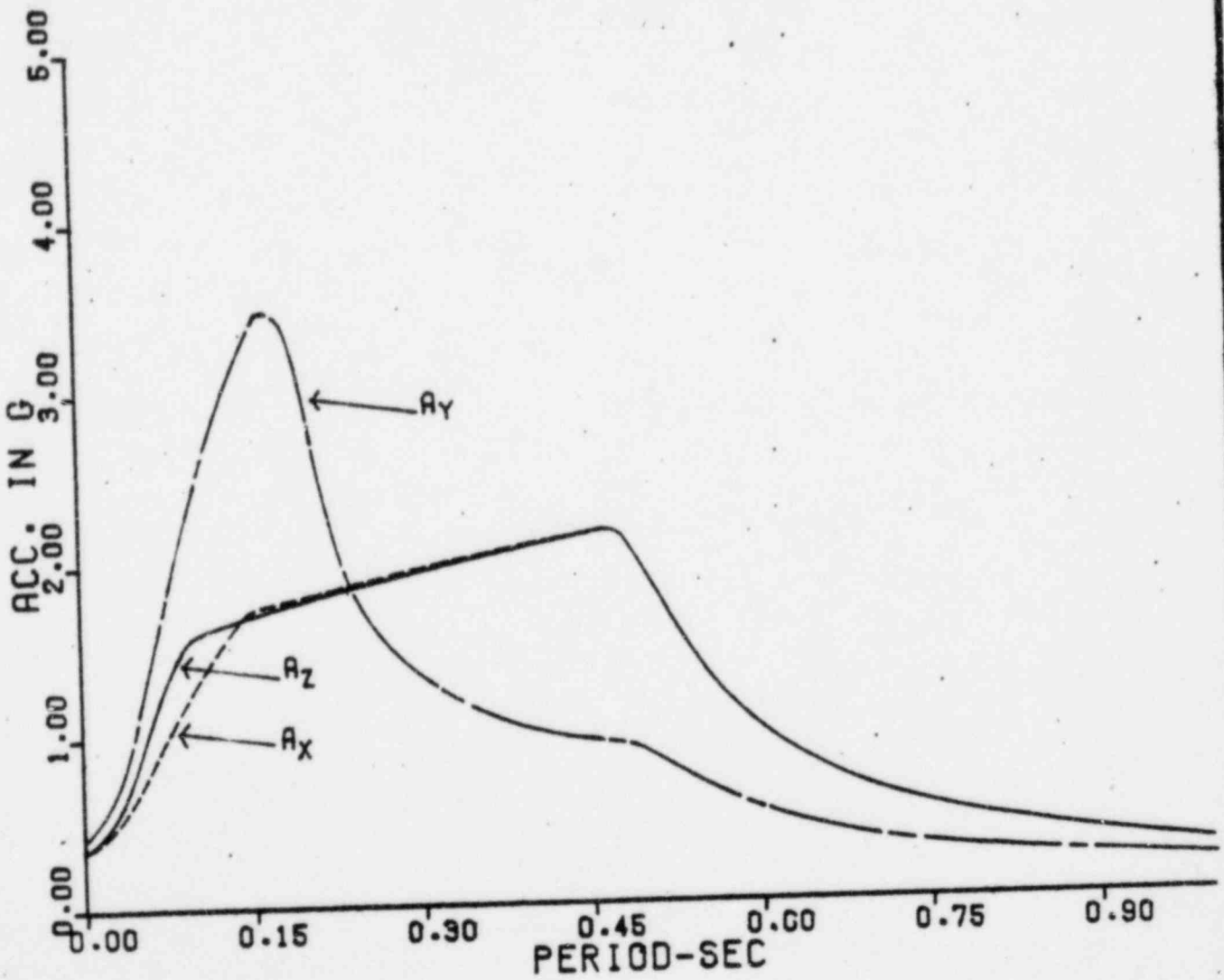
IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 860.00 FT.
EQUIPMENT DAMPING: 0.02
SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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NEW YORK

JOB NO. 2323-A

SCALE:-

FIGURE 11094

ATTACH SLM

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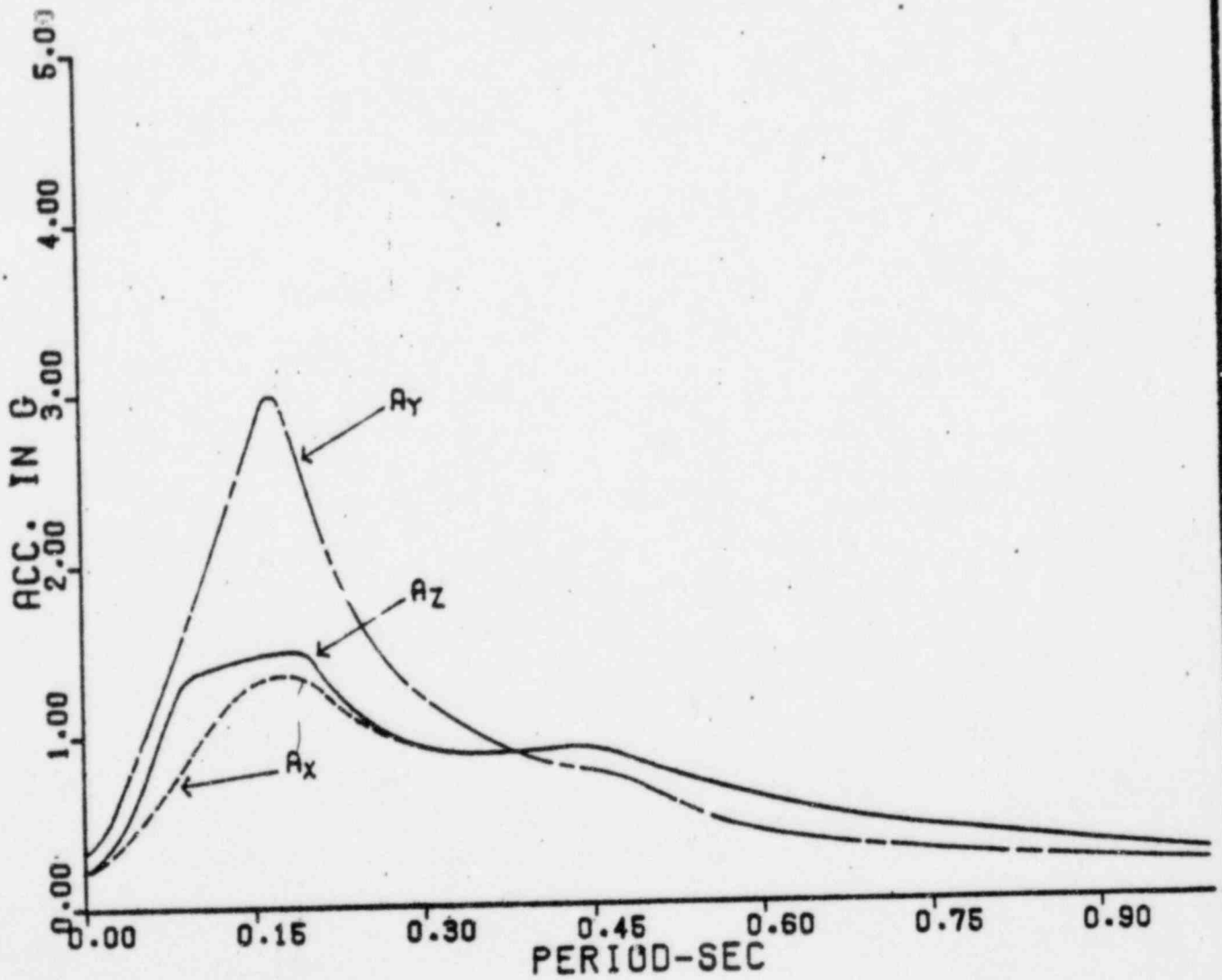
IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 805.50 FT.
EQUIPMENT DAMPING: 0.02
SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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SCALE: -

FIGURE 1110A

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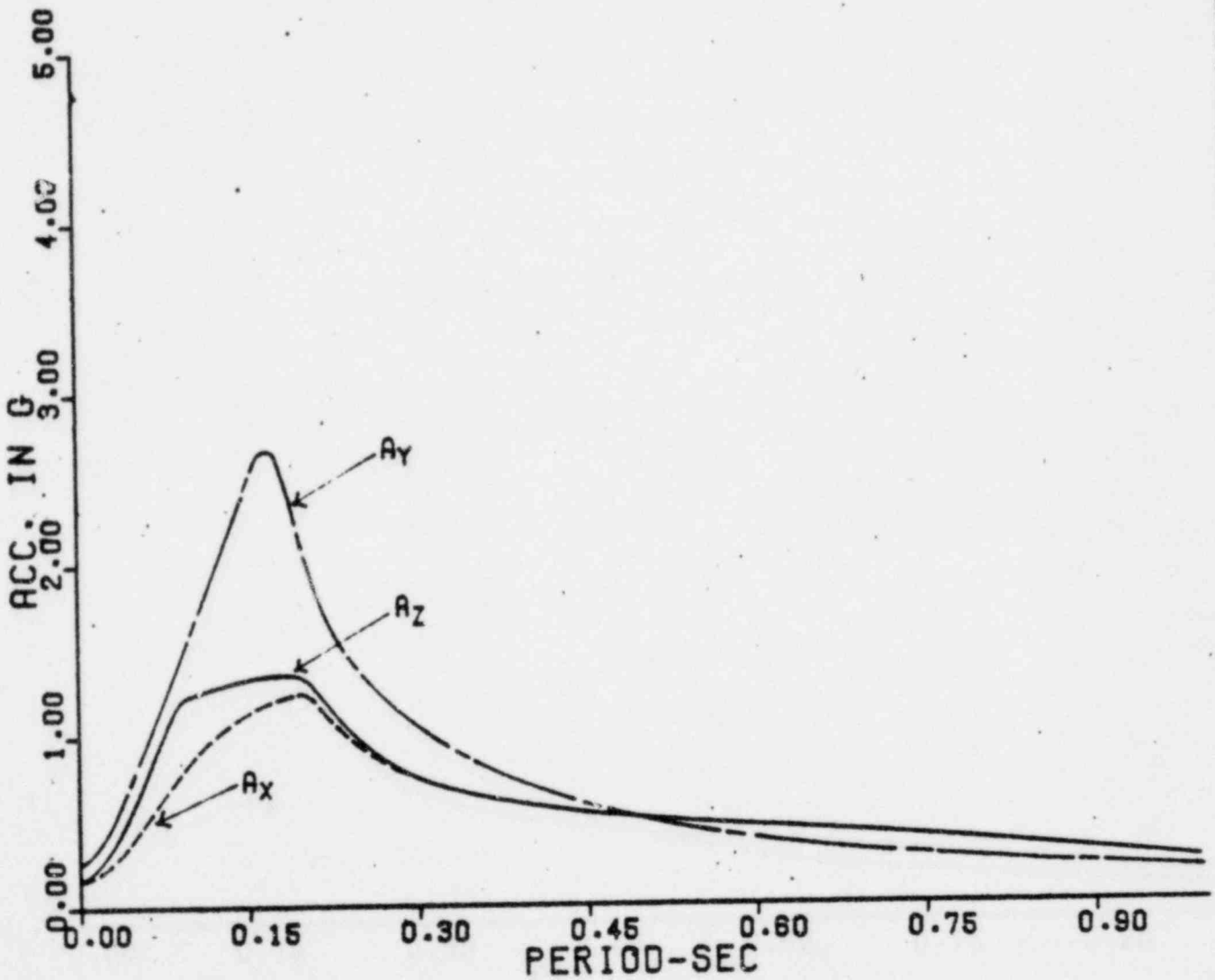
IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 783.58 FT.
EQUIPMENT DAMPING: 0.02
SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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NEW YORK

JOB NO. 2325-A

SCALE: -

FIGURE 1111 A

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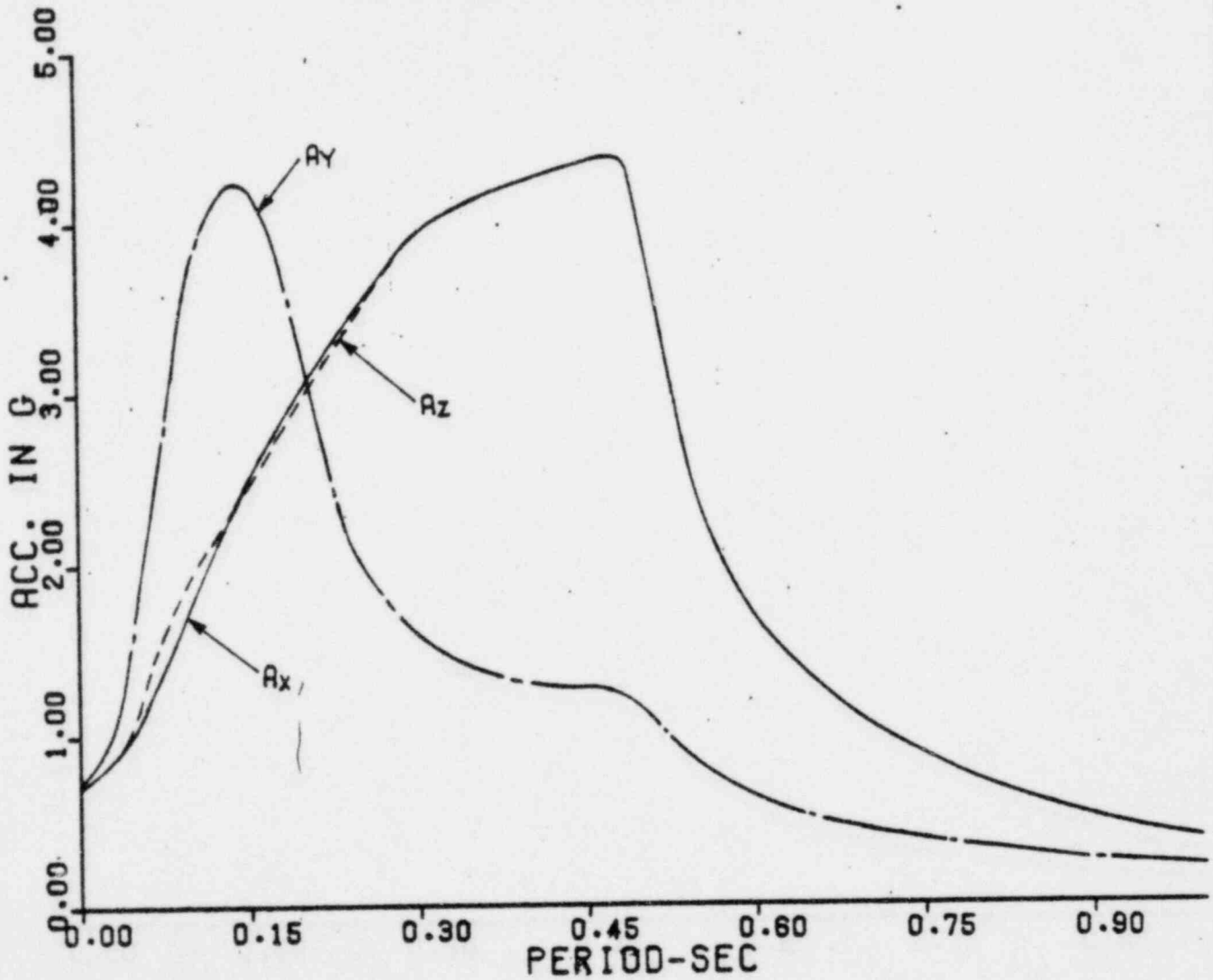
IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 1000.50 FT
EQUIPMENT DAMPING: 0.03
SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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SCALE: -

FIGURE 1112 A

JCH

APPROVALS

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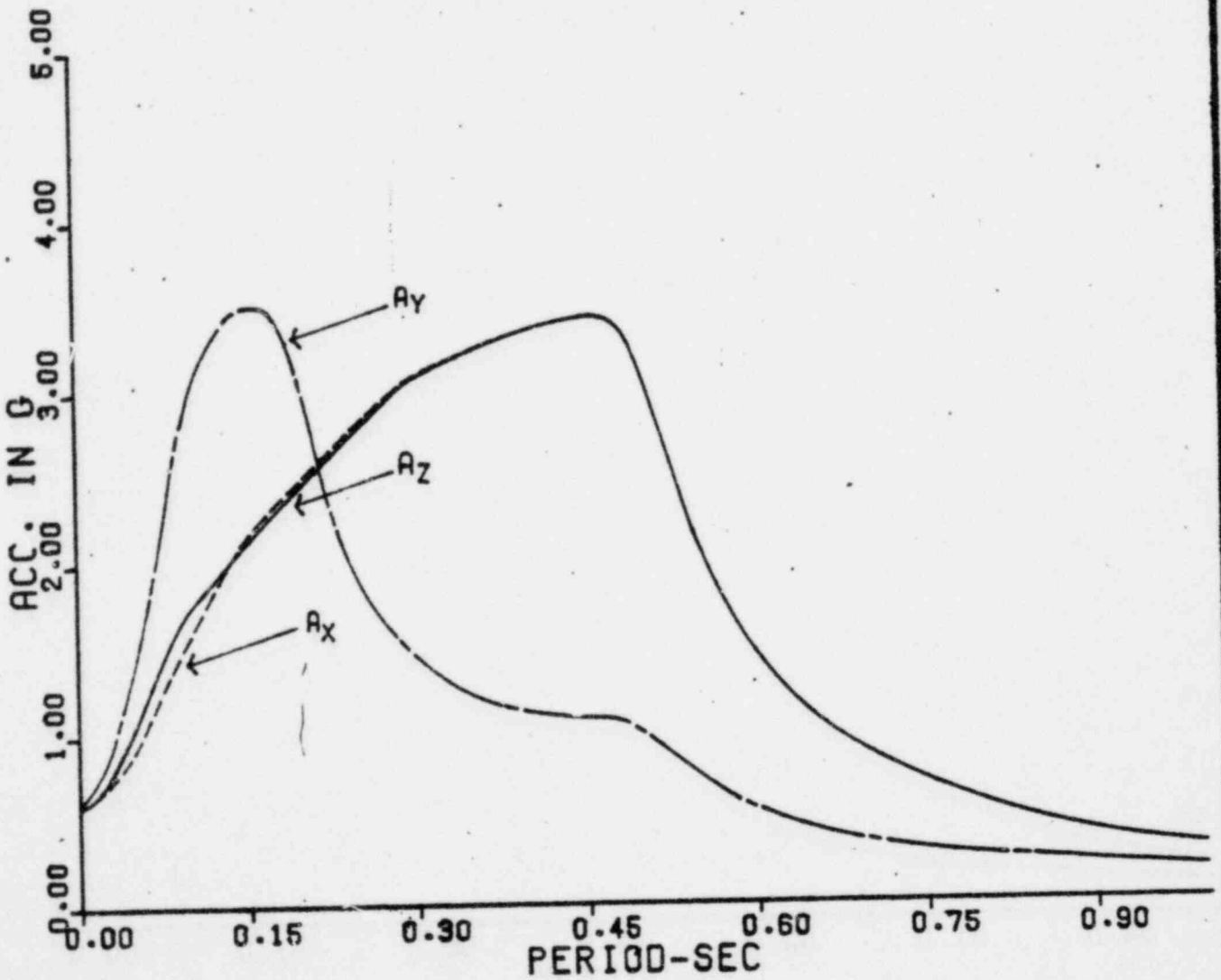
IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 950.58 FT.
EQUIPMENT DAMPING: 0.03
SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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SCALE:-

FIGURE 1113A

APPROVALS

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IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 805.75 FT.
EQUIPMENT DAMPING: 0.03
SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W

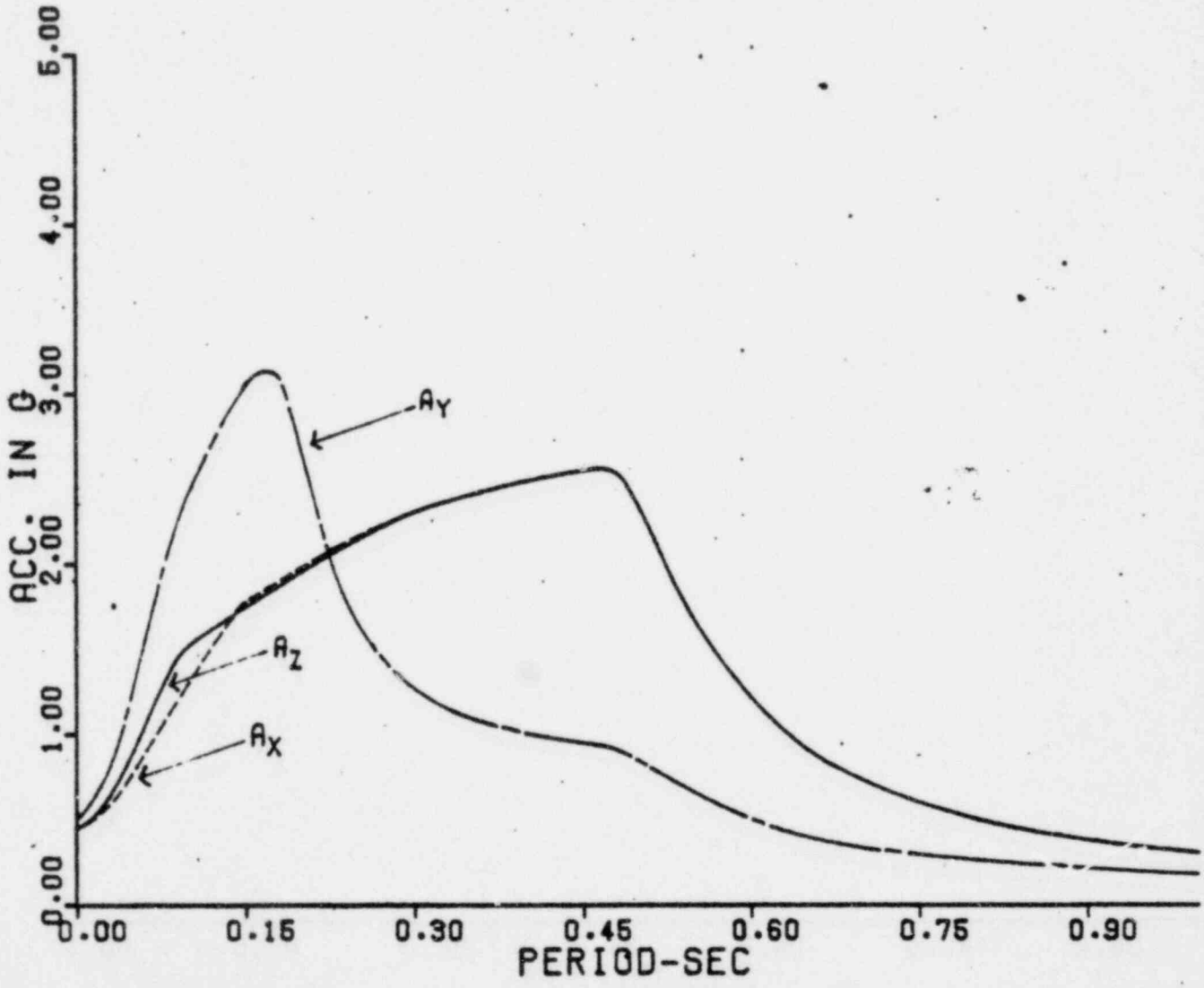

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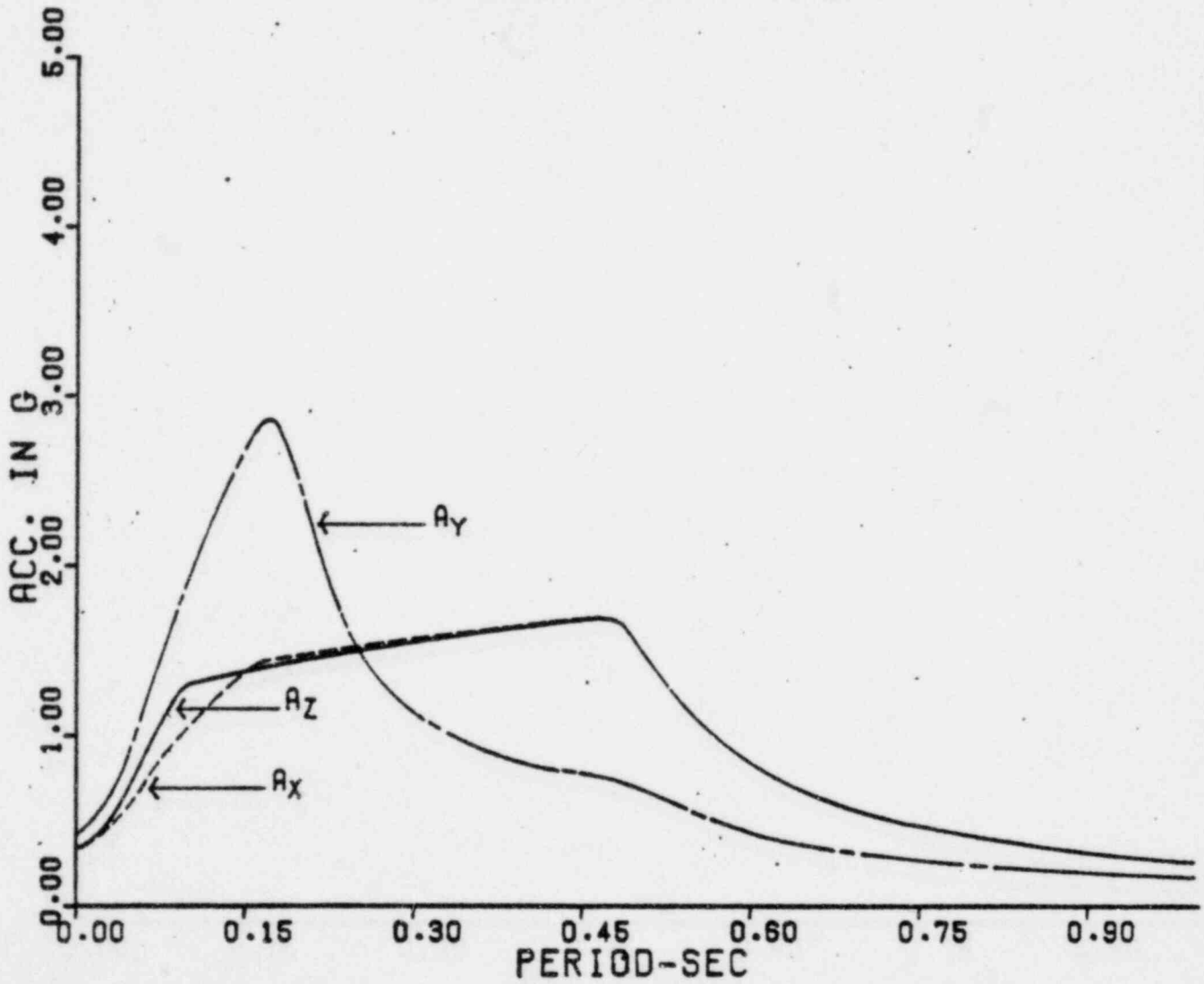
FIGURE 1114A

APPROVALS

ISSUED FOR

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 860.00 FT.
EQUIPMENT DAMPING: 0.03
SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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SCALE:-

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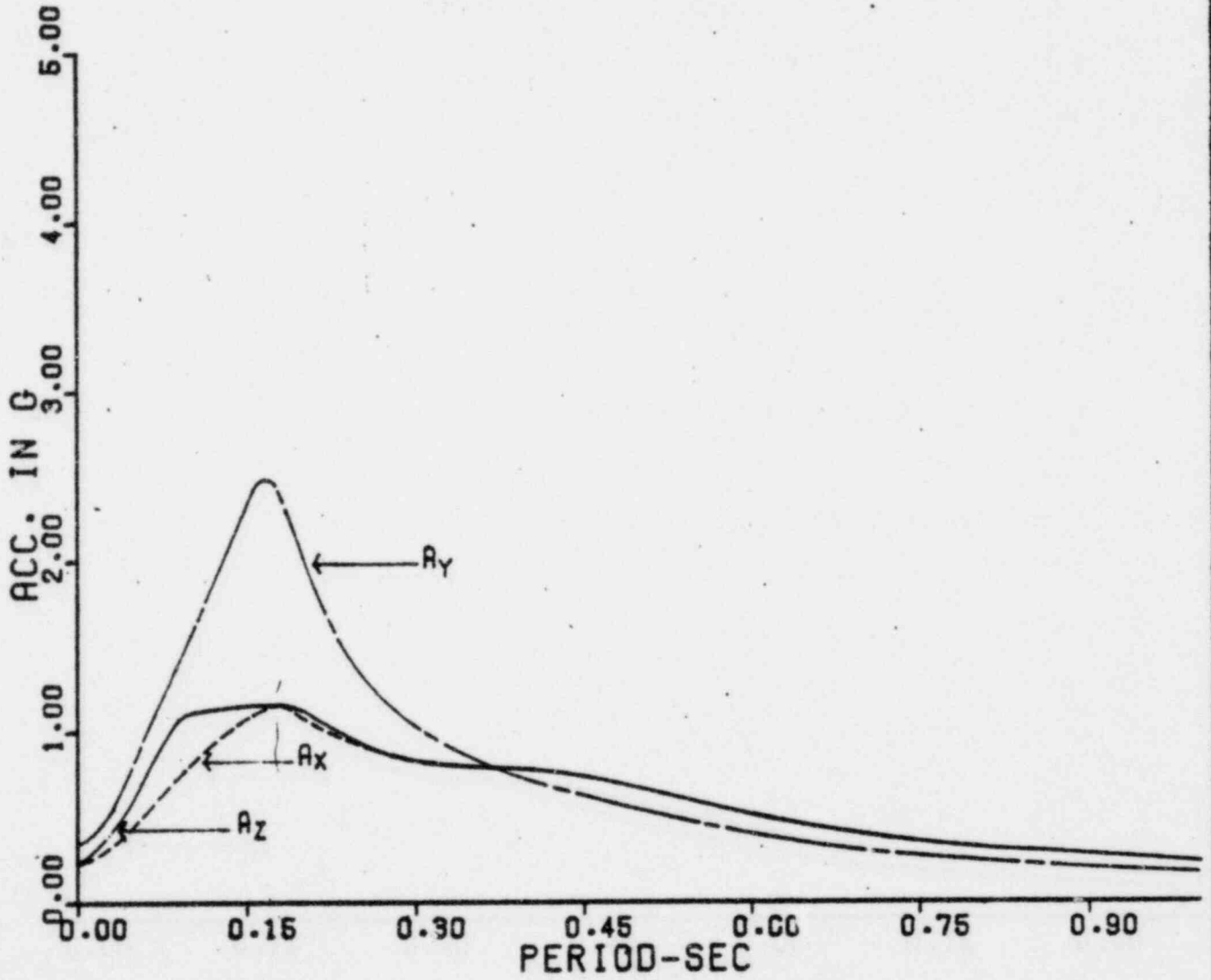
FIGURE 1115 A

APPROVALS

ISSUED FOR

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 805.50 FT.
EQUIPMENT DAMPING: 0.03
SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E W



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JOB NO. 2323-A

SCALE:-

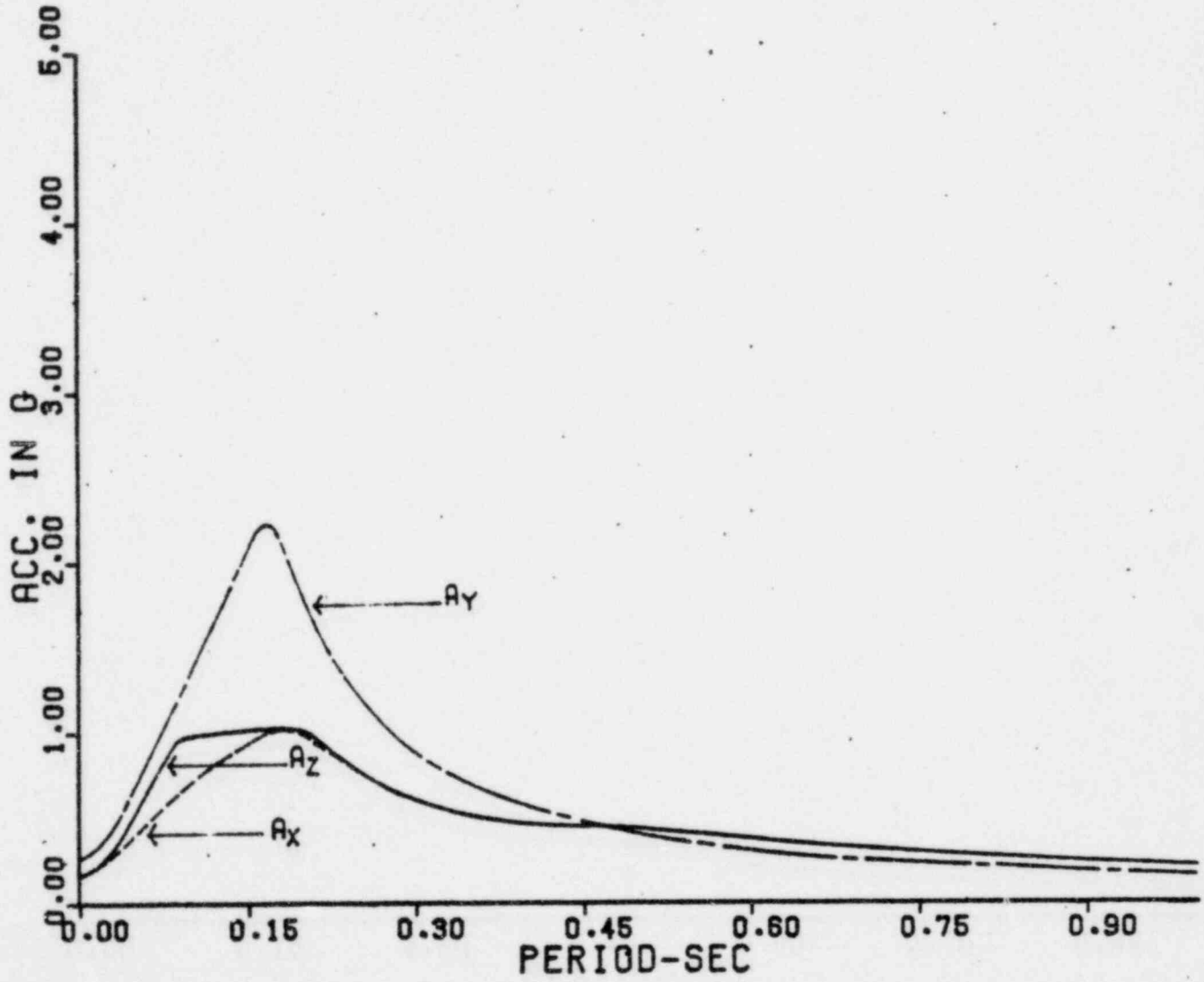
FIGURE 1116A

ISSUED FOR

APPROVALS

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 783.58 FT.
EQUIPMENT DAMPING: 0.03
SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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SCALE: -

FIGURE 1117 A

APPROVALS

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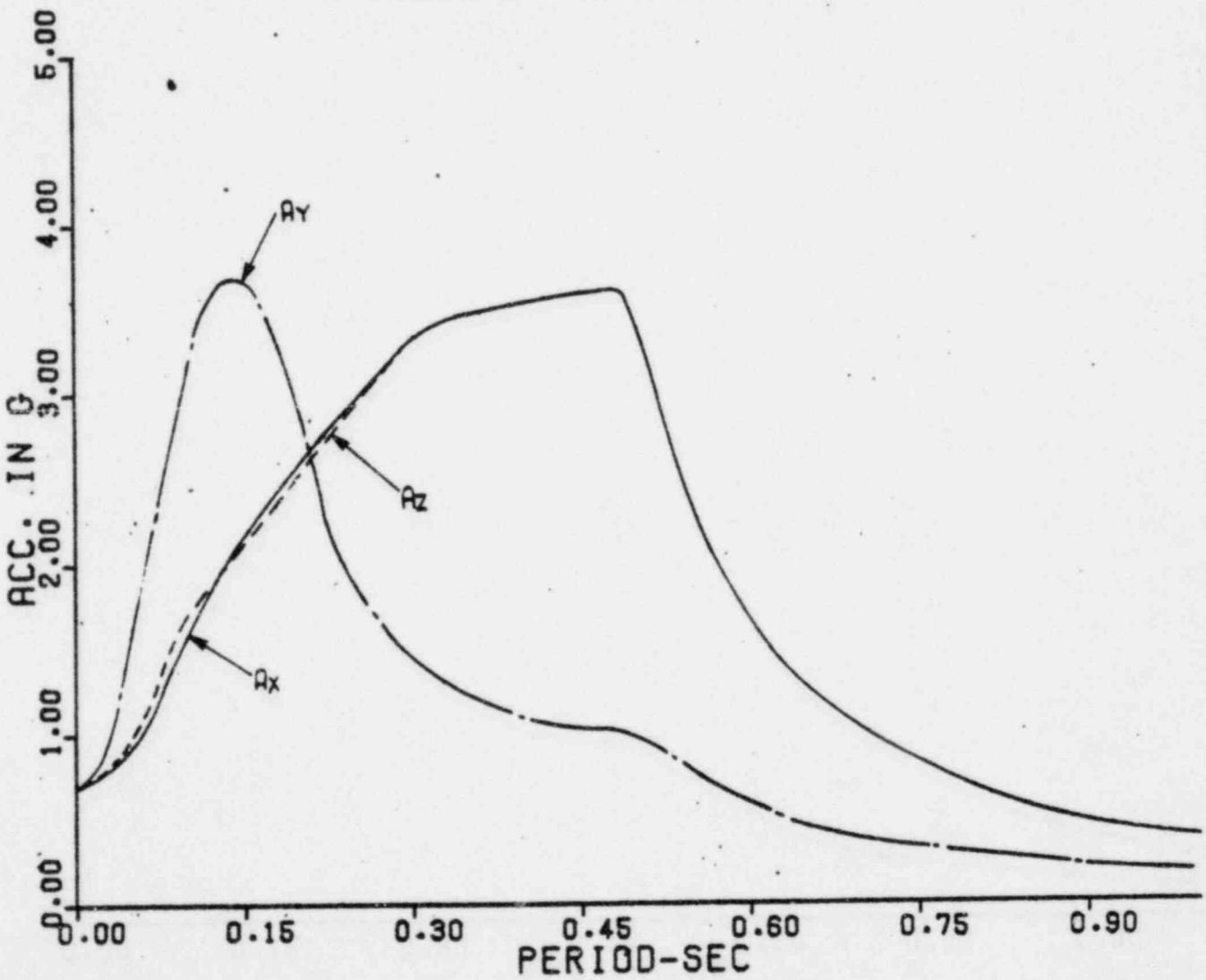
IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 1000.50 FT
EQUIPMENT DAMPING: 0.04
SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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SCALE:-

FIGURE 1118A

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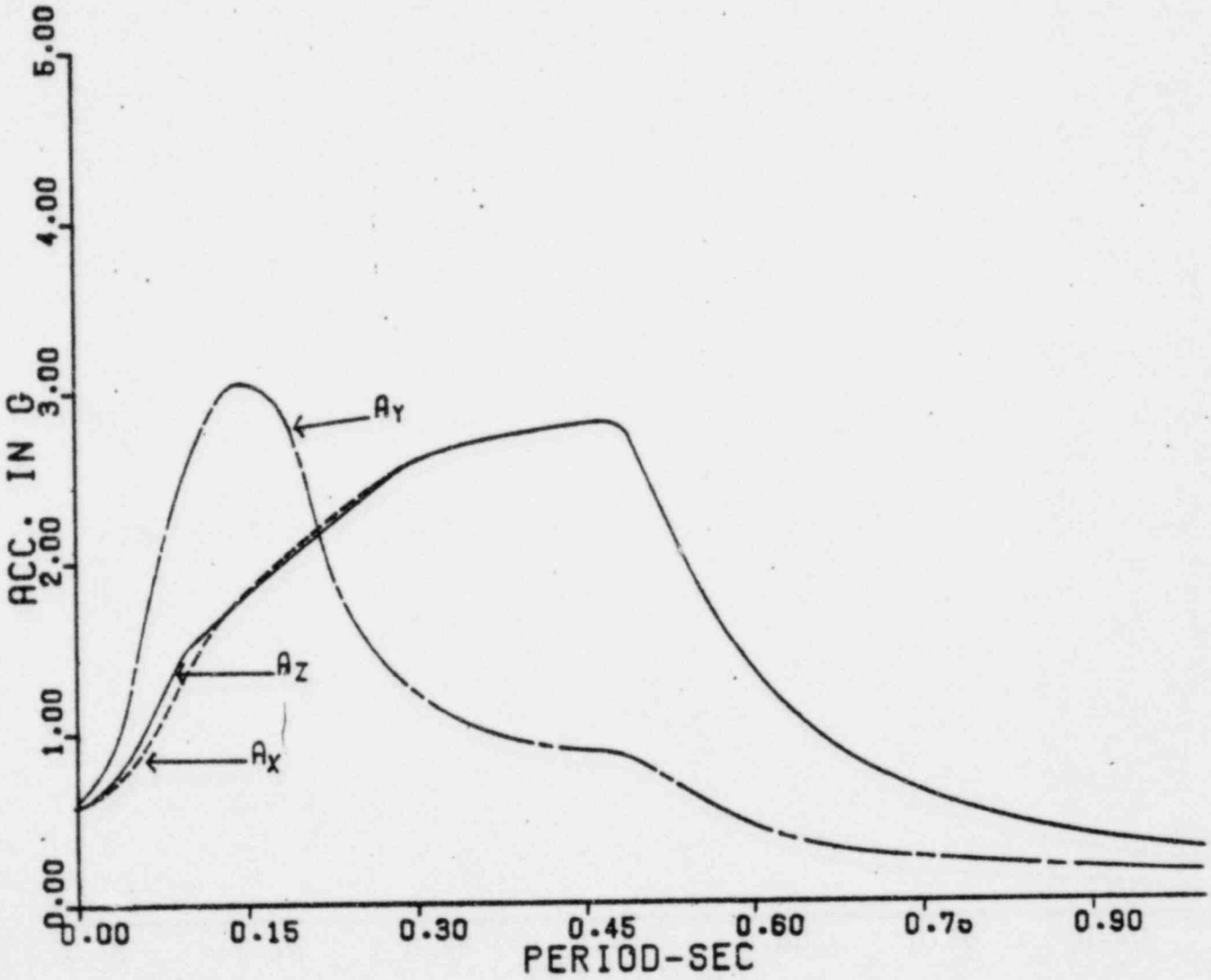
APPROVALS

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 950.58 FT.
EQUIPMENT DAMPING: 0.04
SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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SCALE:-

FIGURE 1119 A

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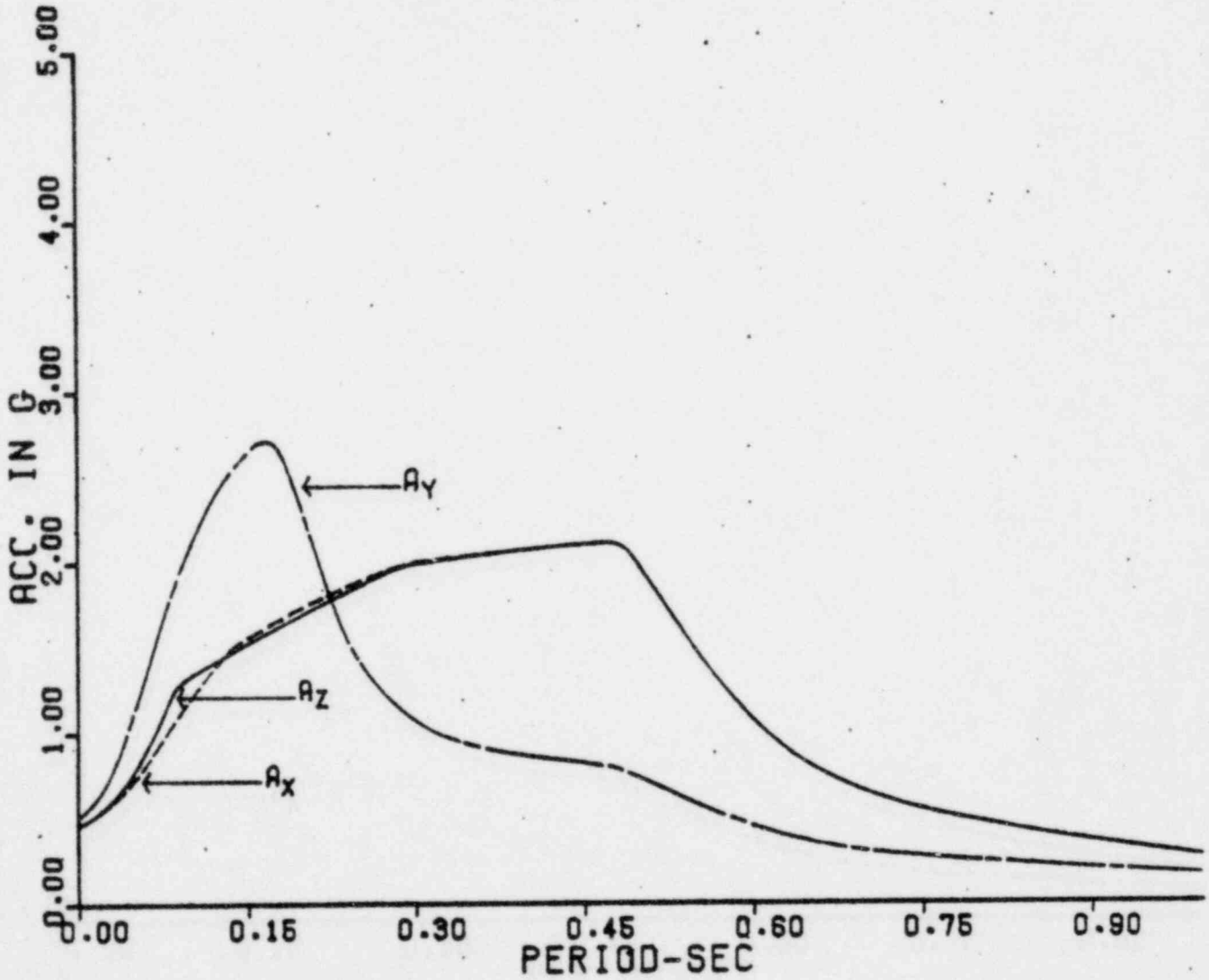
IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 805.75 FT.
EQUIPMENT DAMPING: 0.04
SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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SCALE:-

FIGURE 1120A

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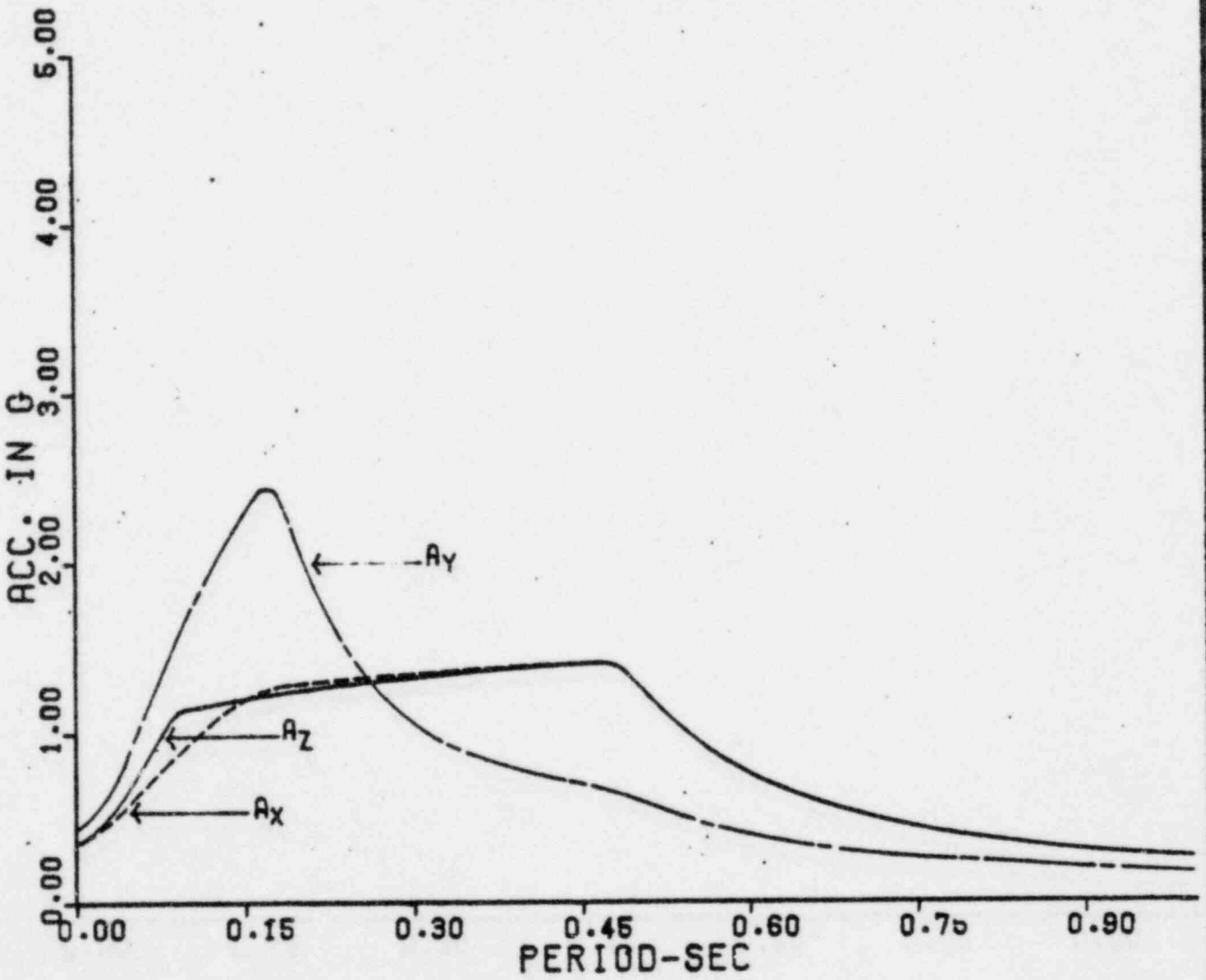
IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 860.00 FT.
EQUIPMENT DAMPING: 0.04
SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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JOB NO. 2323-A

SCALE:-

FIGURE 1121 A

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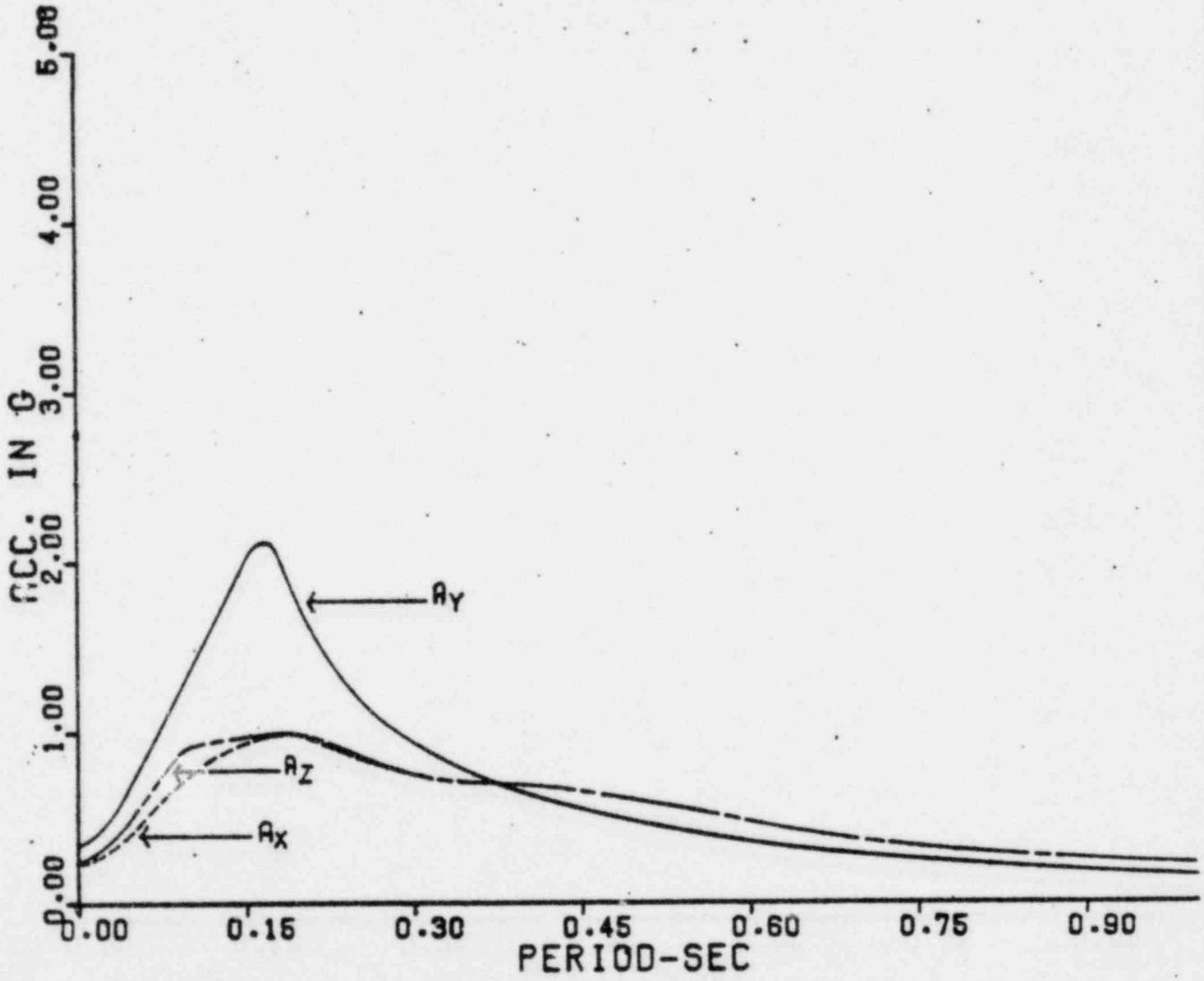
IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 805.50 FT.
EQUIPMENT DAMPING: 0.04
SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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JOB NO. 2323-A

SCALE:-

FIGURE 1122A

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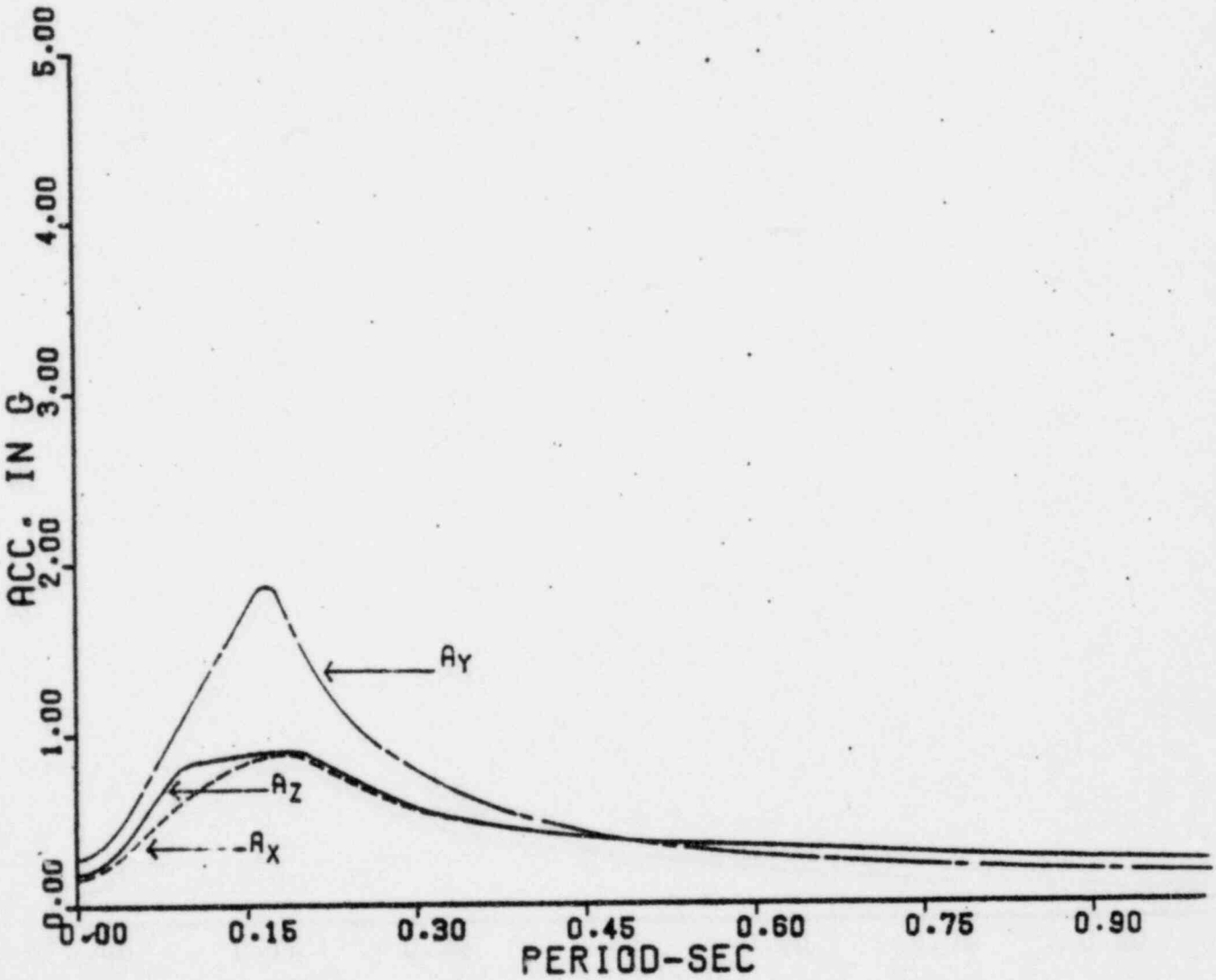
IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 783.58 FT.
EQUIPMENT DAMPING: 0.04
SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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NEW YORK

JOB NO. 2525-A

SCALE:-

FIGURE 1123A

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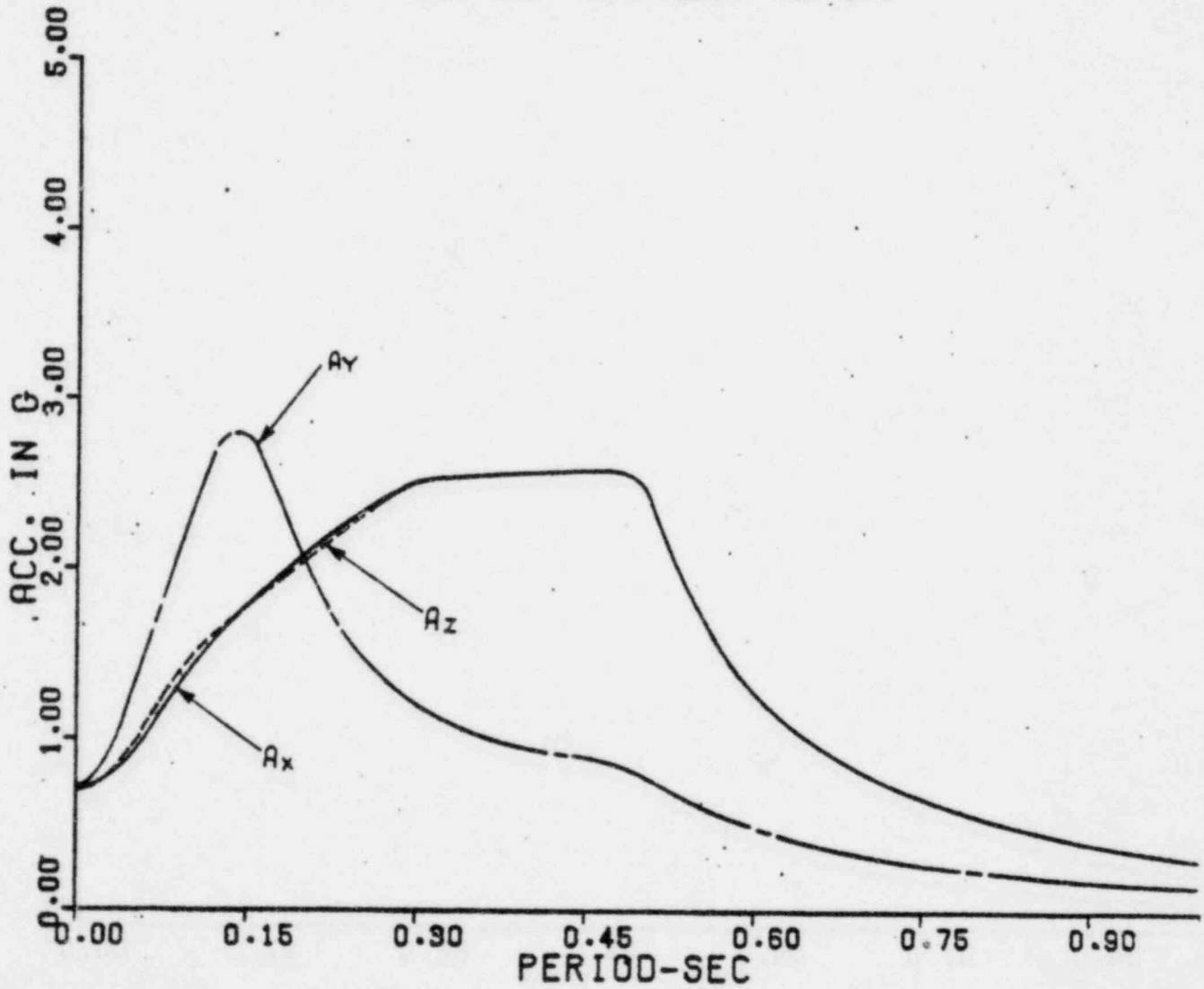
IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 1000.50 FT
EQUIPMENT DAMPING: 0.07
SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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NEW YORK

JOB NO. 2525-A

SCALE:-

FIGURE 1124 A

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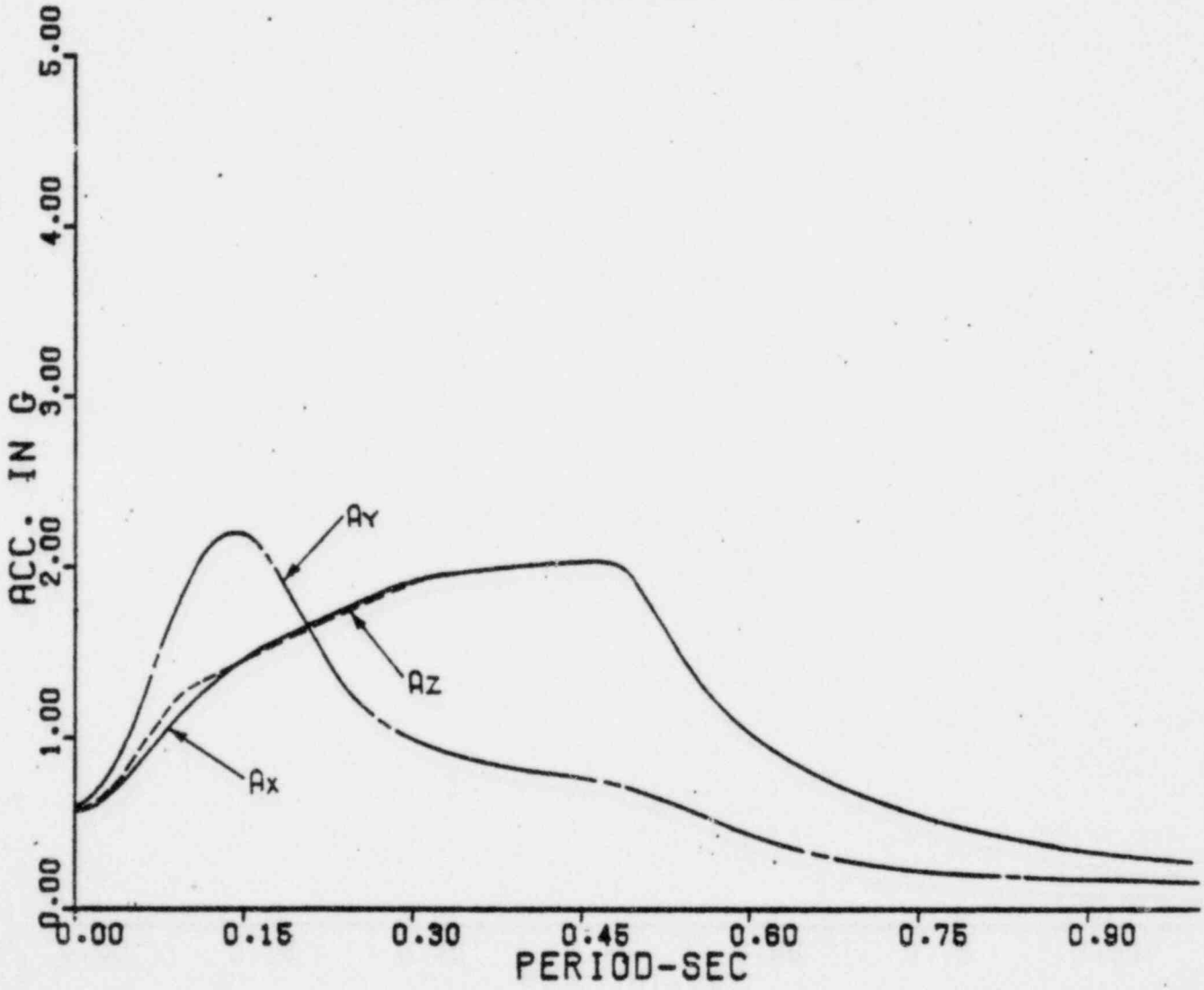
IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 850.58 FT.
EQUIPMENT DAMPING: 0.07
SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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NEW YORK

JOB NO. 2525-A

SCALE:-

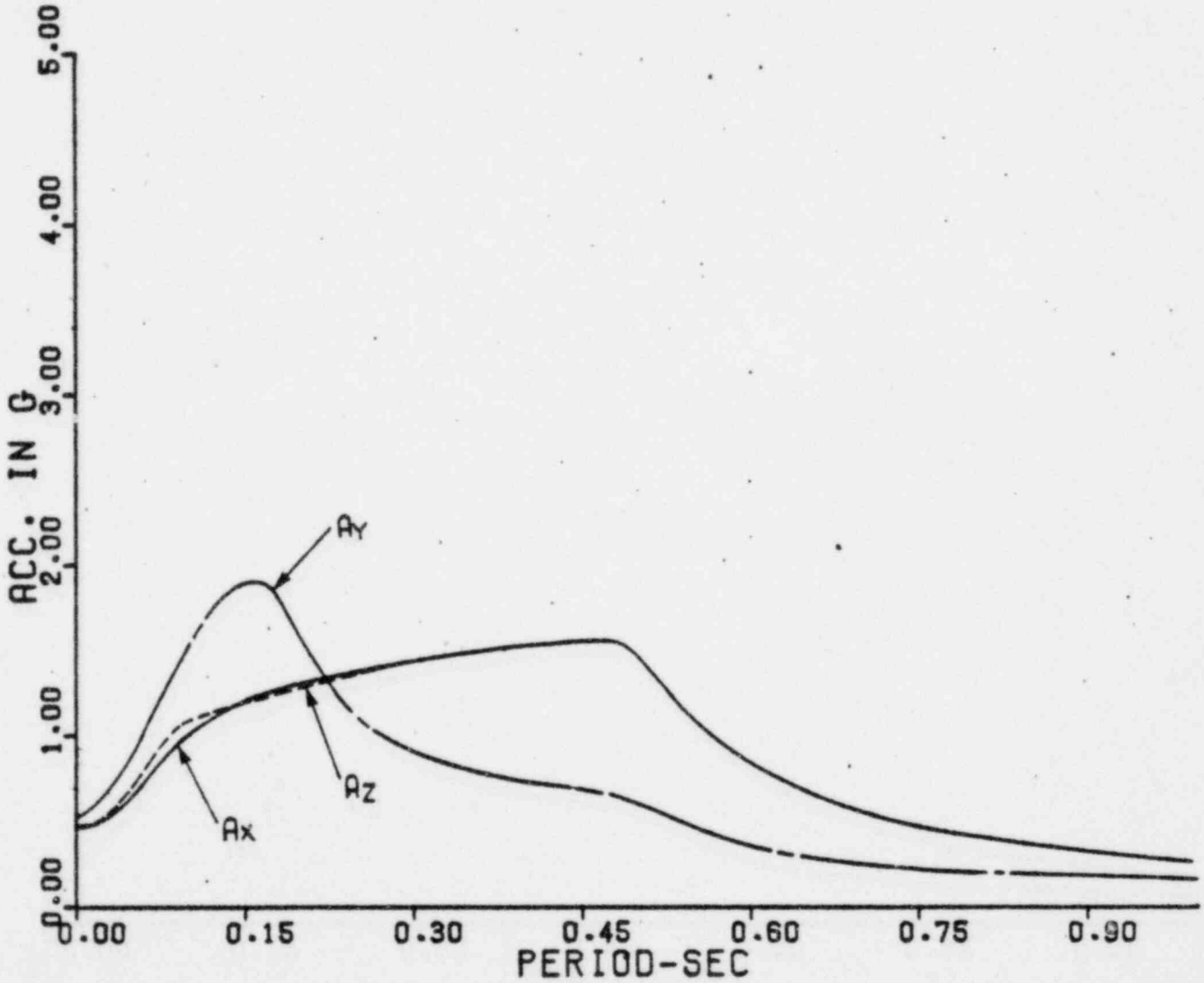
FIGURE 1125 A

ISSUED FOR

APPROVALS

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 905.75 FT.
EQUIPMENT DAMPING: 0.07
SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



TUSI

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ENGINEERS, DESIGNERS, CONSTRUCTORS
NEW YORK

JOB NO. 2323-A

SCALE: -

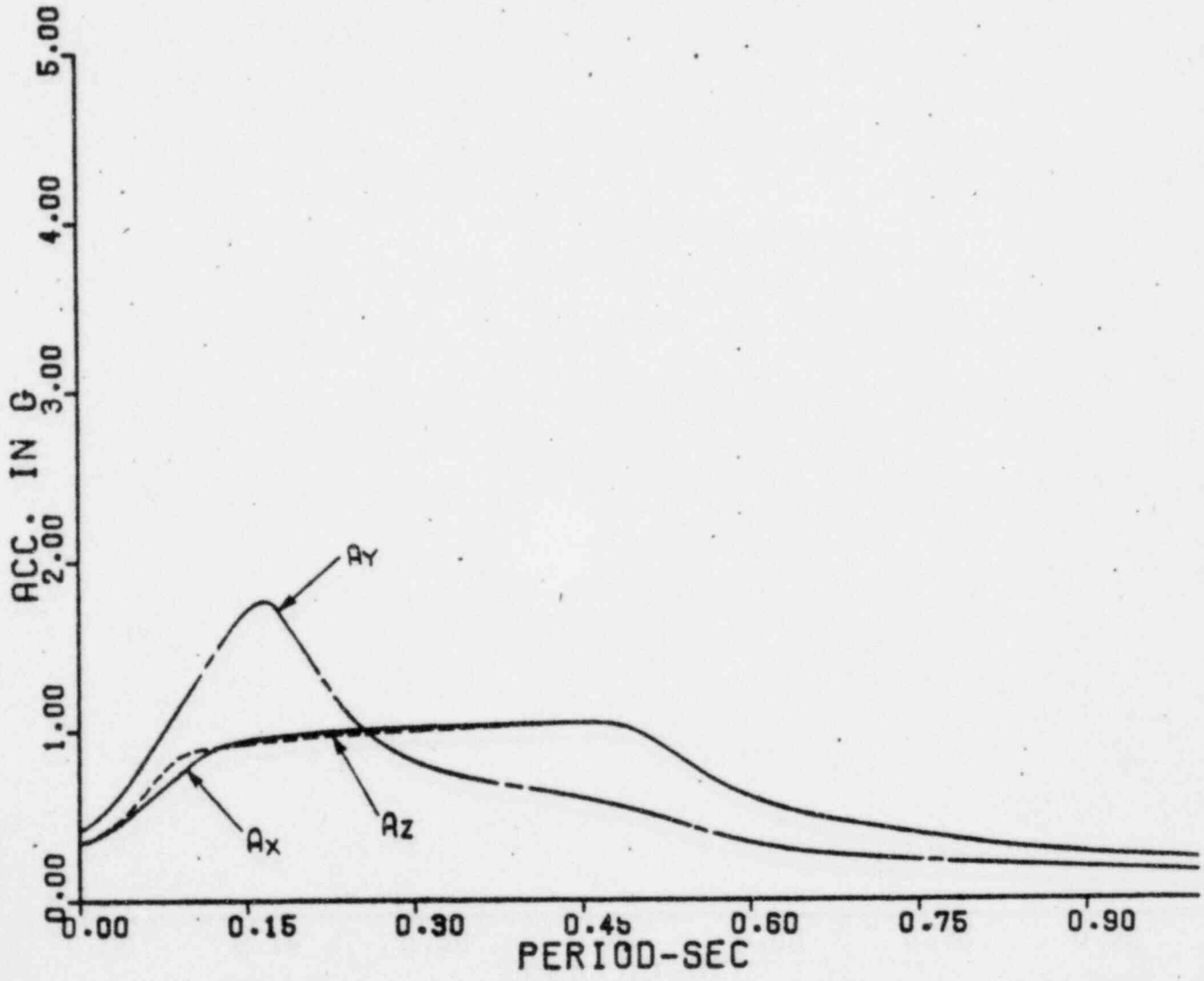
FIGURE 1126A

APPROVALS

ISSUED FOR

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 860.00 FT.
EQUIPMENT DAMPING: 0.07
SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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ENGINEERS, ARCHITECTS, CONSTRUCTORS
NEW YORK

JOB NO. 2323-A

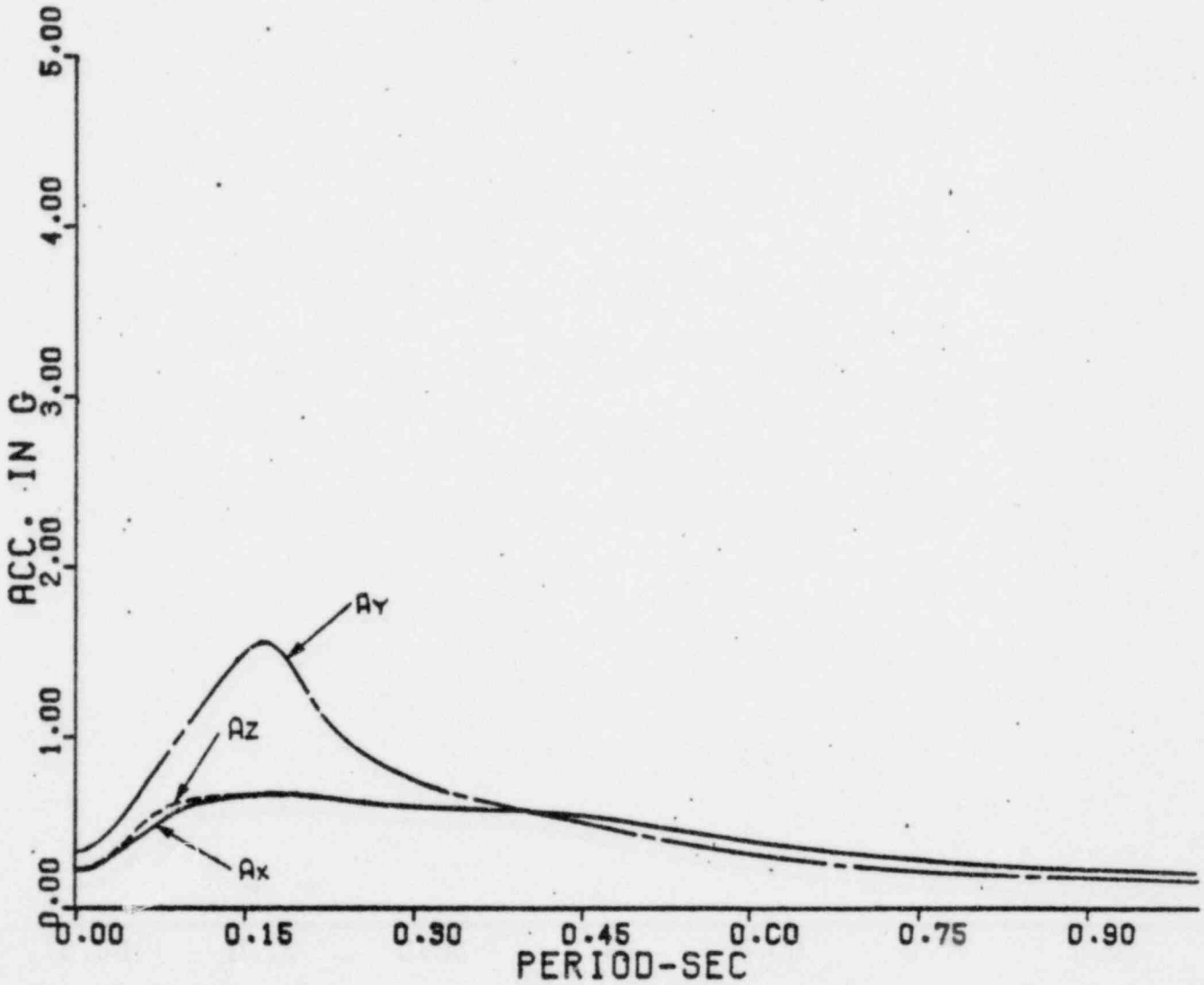
SCALE: -

FIGURE 1127 A

ISSUED FOR

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 805.50 FT.
EQUIPMENT DAMPING: 0.07
SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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NEW YORK

JOB NO. 2525-A

SCALE:-

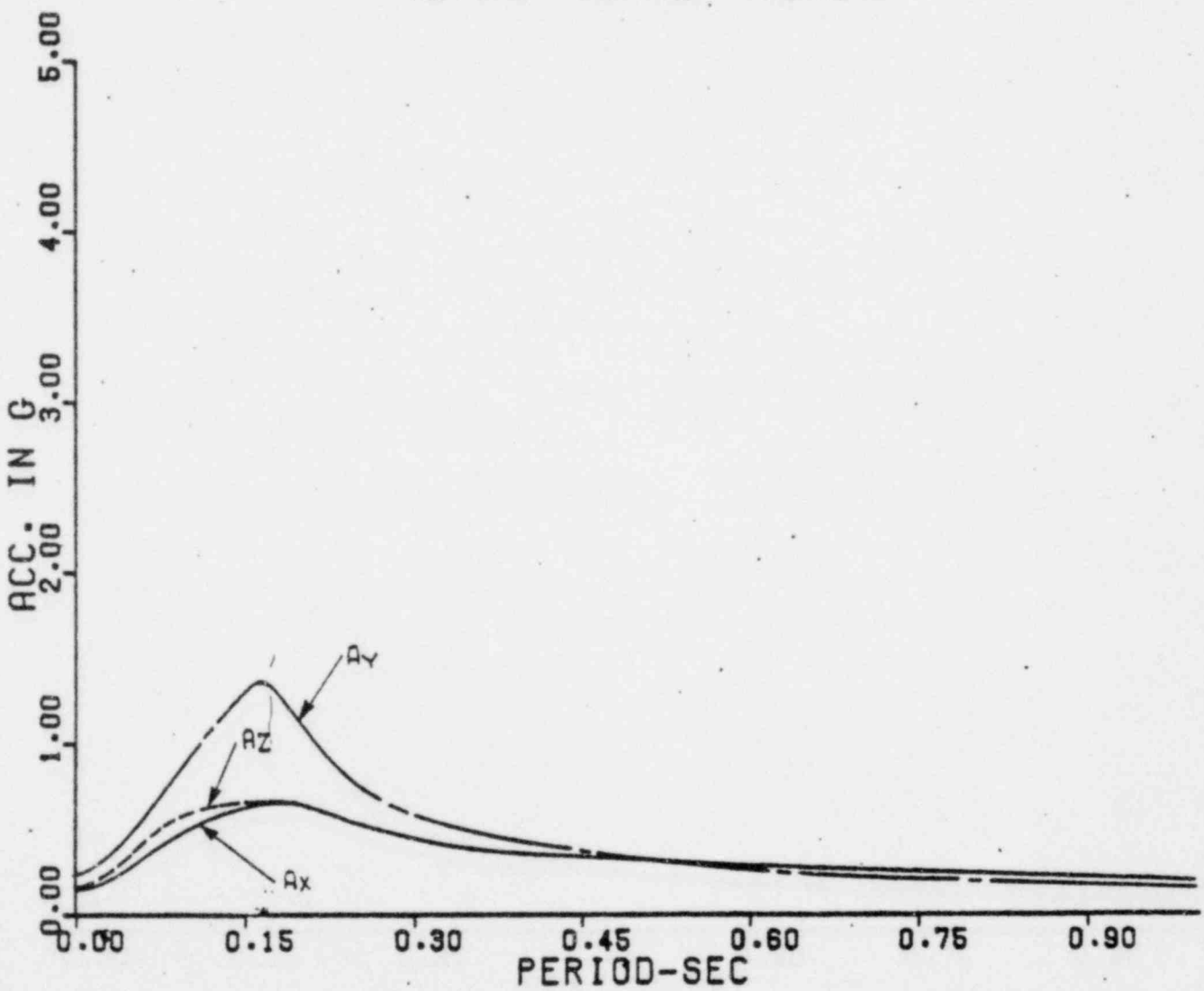
FIGURE 1128A

ISSUED FOR

APPROVALS

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 783.58 FT.
EQUIPMENT DAMPING: 0.07
SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



TUSI

Gibbs & Hill, Inc.
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NEW YORK

JOB NO. 2323-A

SCALE:-

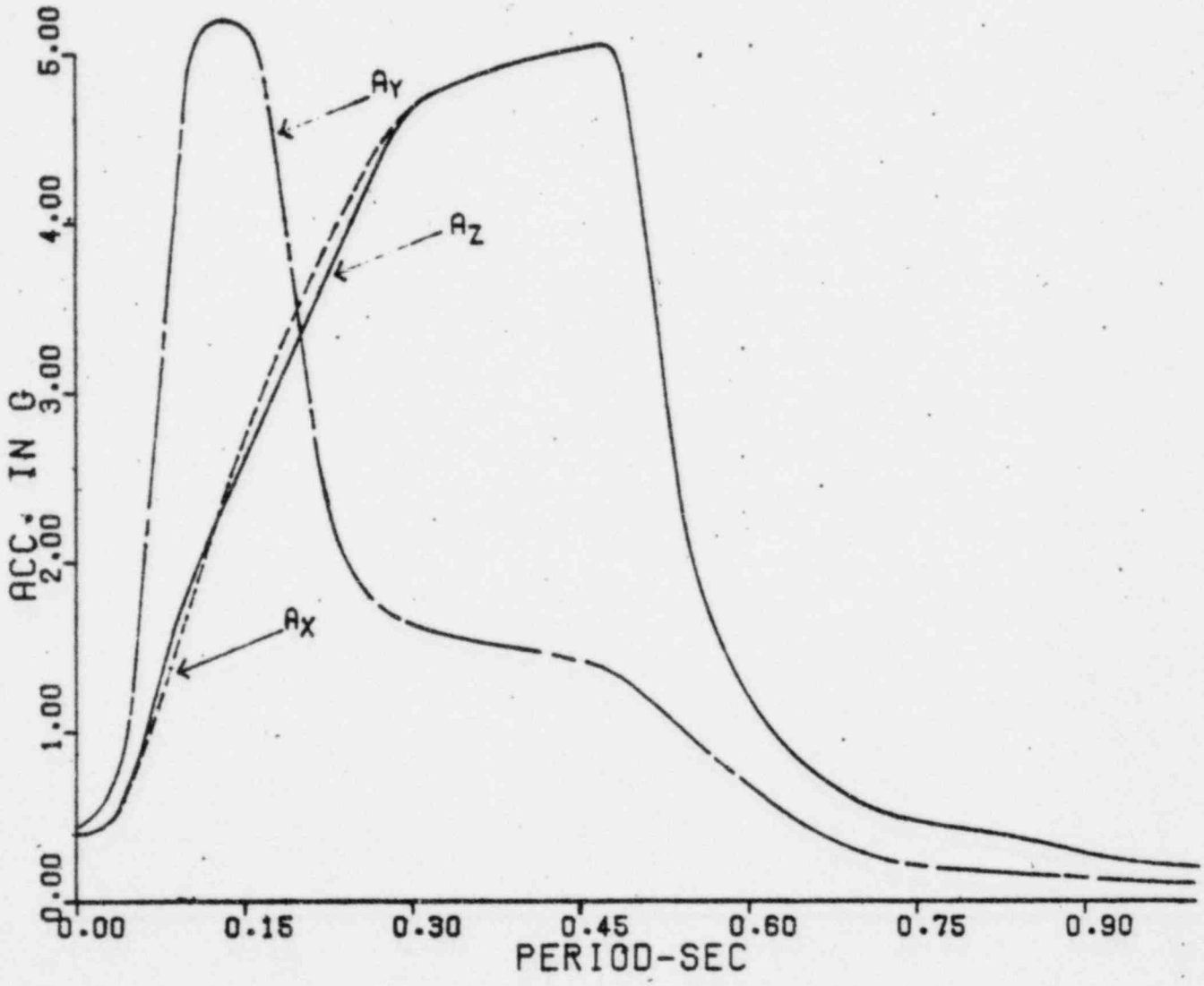
FIGURE 1129A

ISSUED FOR

APPROVALS

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 1000.50 FT
EQUIPMENT DAMPING: 0.01
1/2 SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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NEW YORK

JOB NO. 2525-A

SCALE:-

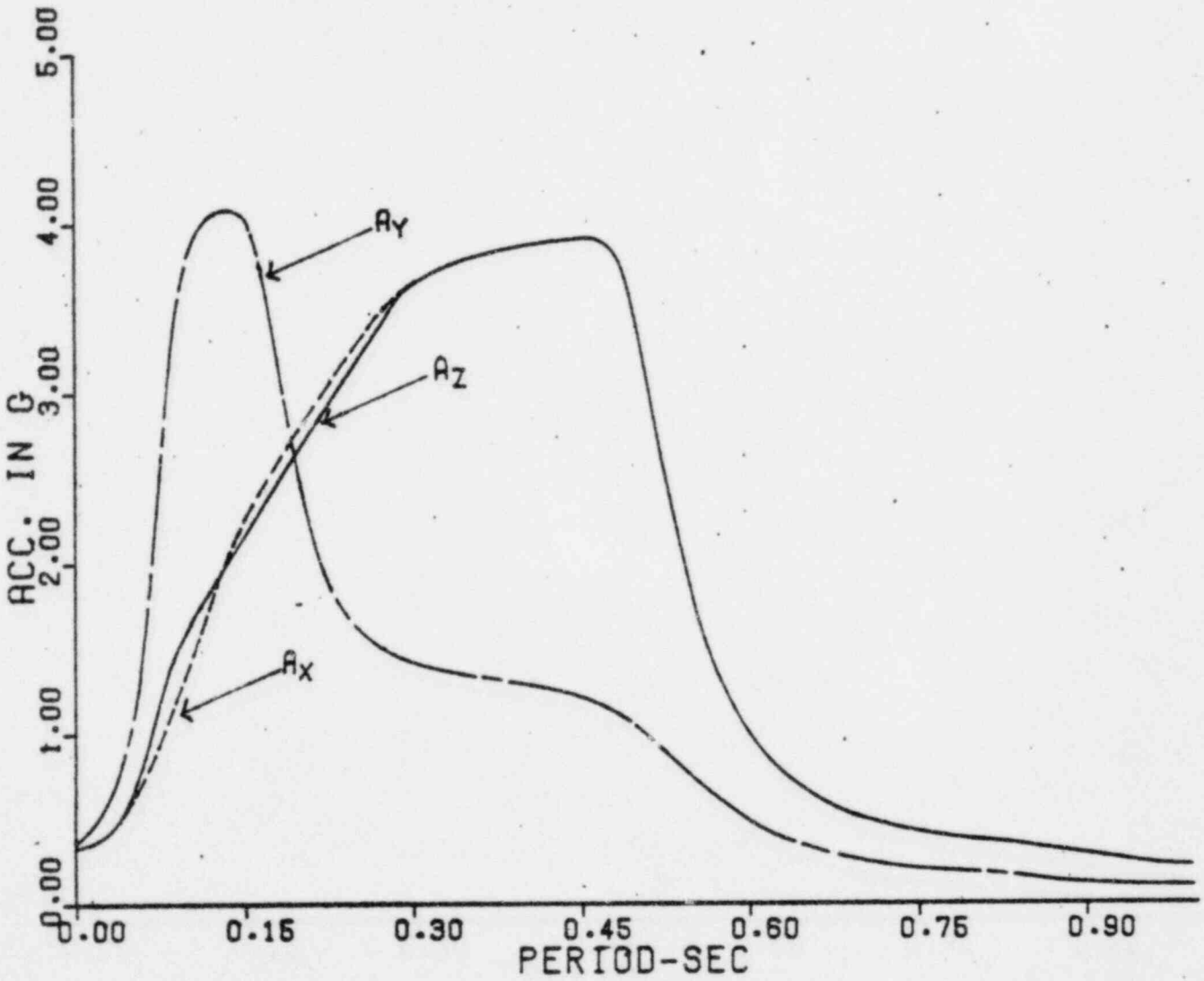
FIGURE 1130A

ISSUED FOR

APPROVALS

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 950.58 FT.
EQUIPMENT DAMPING: 0.01
1/2 SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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ENGINEERS, SCIENTISTS, CONTRACTORS
NEW YORK

JOB NO. 2323-1

SCALE: -

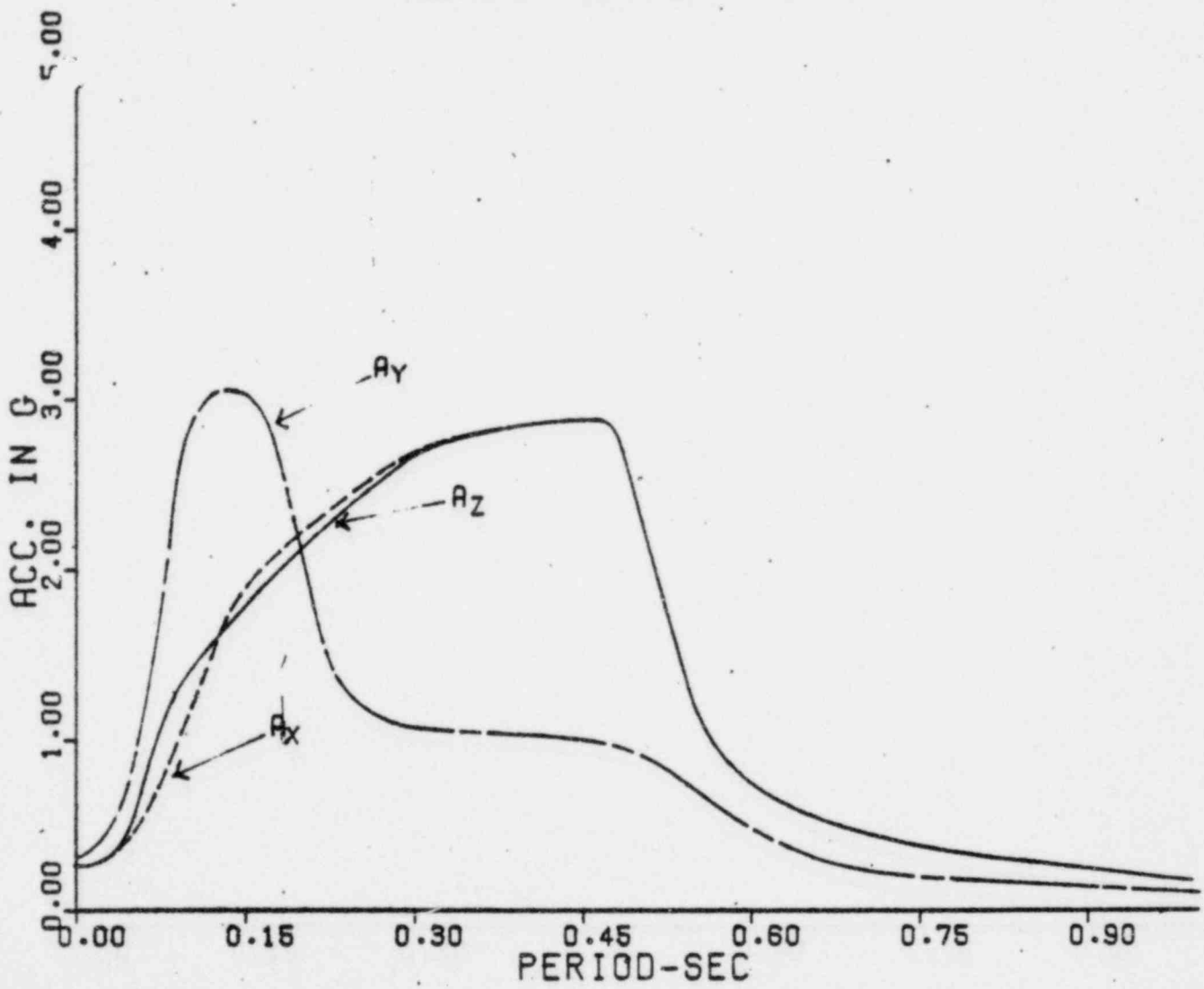
FIGURE 1131 A

APPROVALS

ISSUED FOR

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 905.75 FT.
EQUIPMENT DAMPING: 0.01
1/2 SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



TUSI

Gibbs & Hill, Inc.
ENGINEERS, DESIGNERS, CONSTRUCTORS
NEW YORK

JOB NO. 2325-A

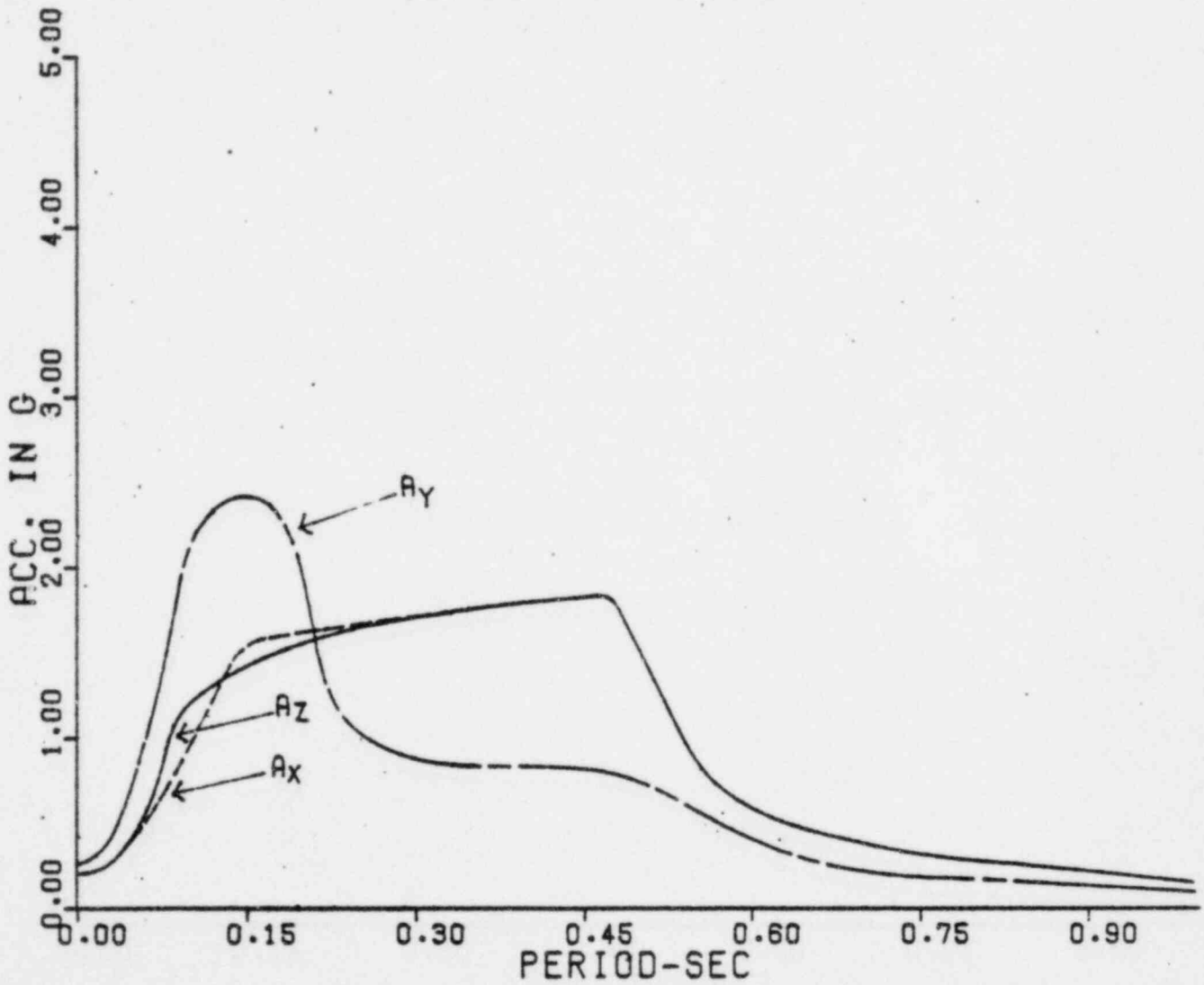
SCALE: -

FIGURE 1132A

ISSUED FOR

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 860.00 FT.
EQUIPMENT DAMPING: 0.01
1/2 SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



TUSI

Gibbs & Hill, Inc.
ENGINEERS, DESIGNERS, CONSTRUCTORS
NEW YORK

JOB NO. 7325-A

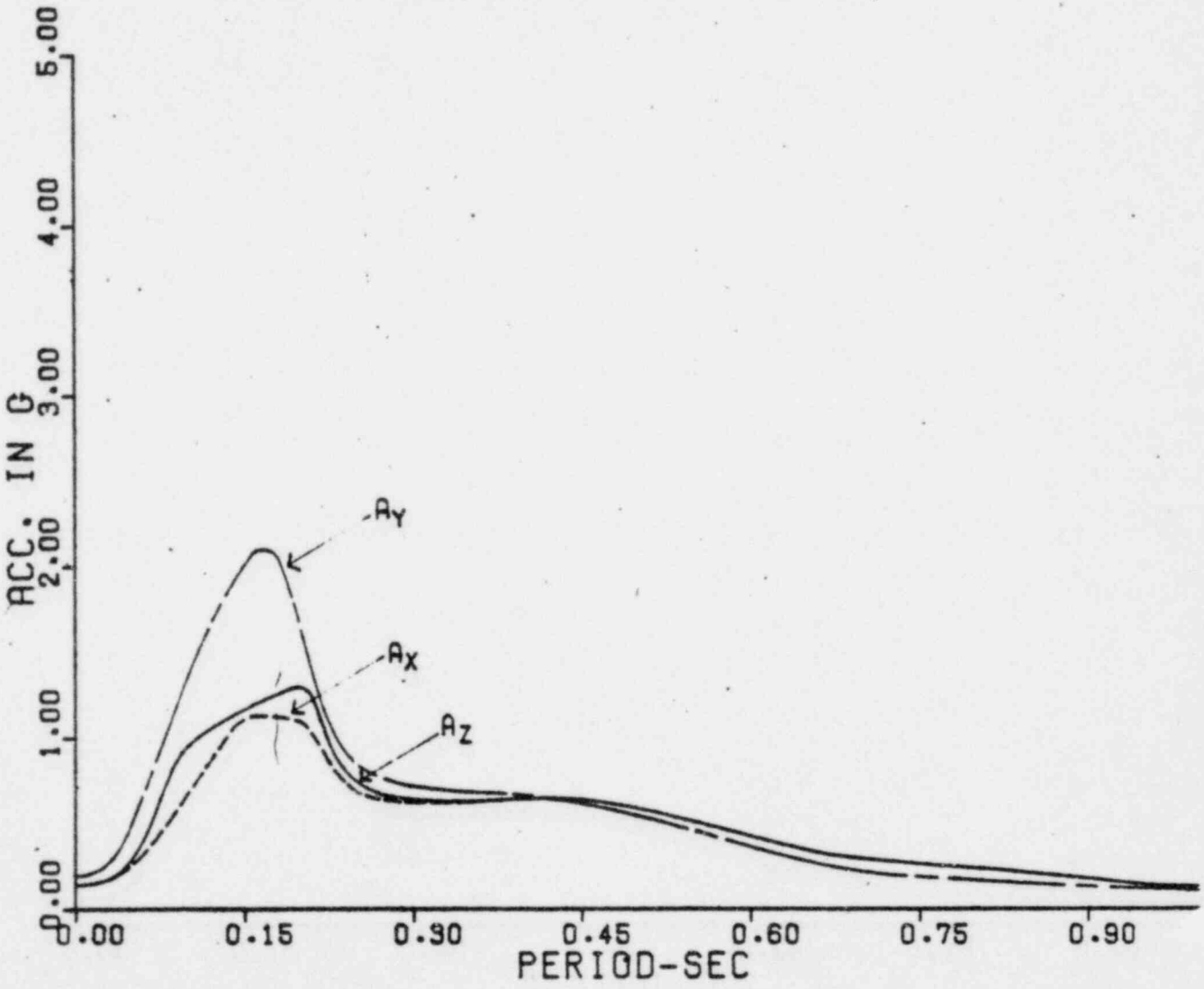
SCALE: -

FIGURE 1133A

ISSUED FOR

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 805.50 FT.
EQUIPMENT DAMPING: 0.01
1/2 SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



TUSI

Gibbs & Hill, Inc.
ENGINEERS, DESIGNERS, CONSTRUCTORS
NEW YORK

JOB NO. 2323-A

SCALE:-

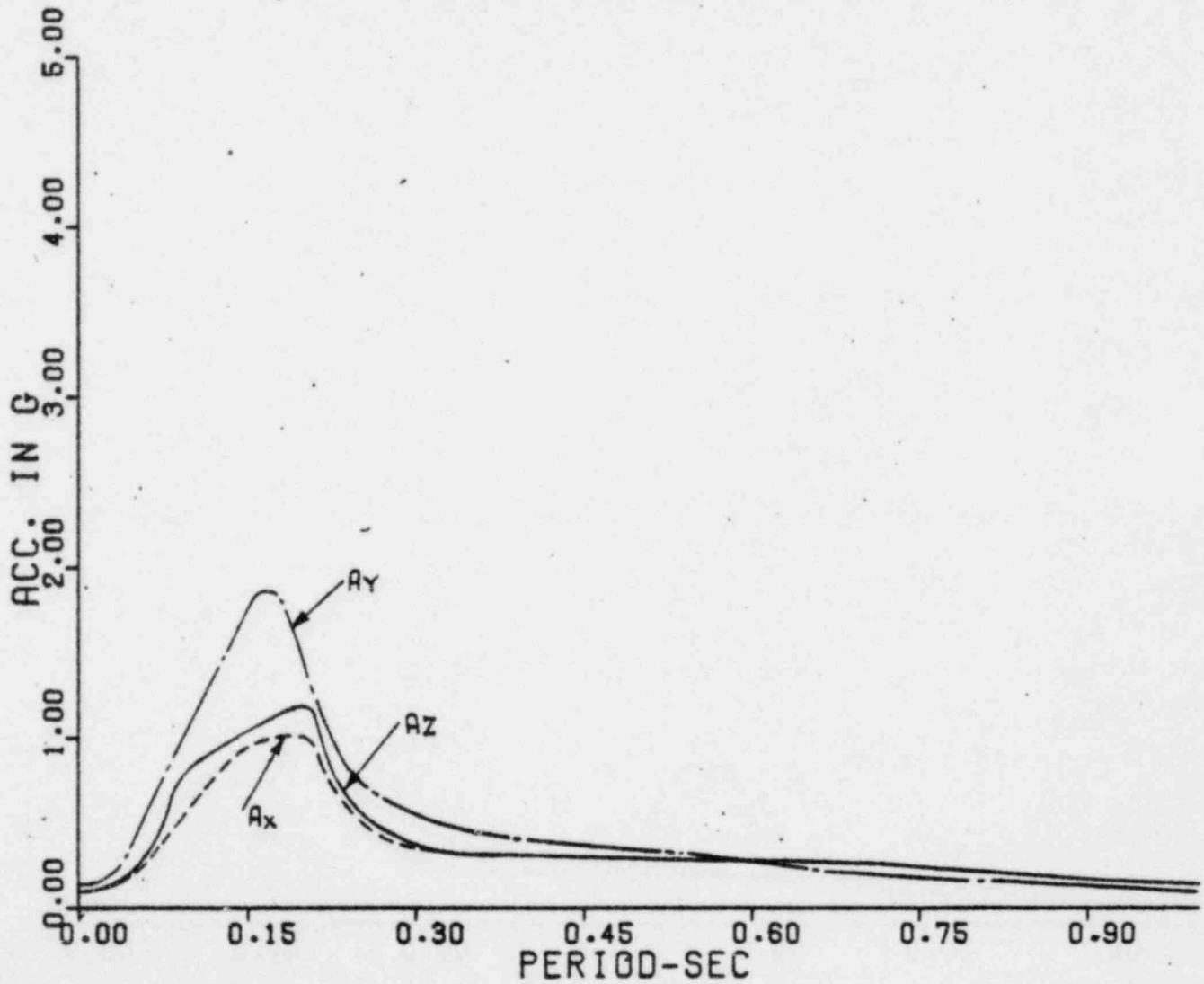
FIGURE 1134A

ISSUED FOR

APPROVALS

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 783.58 FT.
EQUIPMENT DAMPING: 0.01
1/2 SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



TUSI

Gibbs & Hill, Inc.
ENGINEERS, DESIGNERS, CONSTRUCTORS
NEW YORK

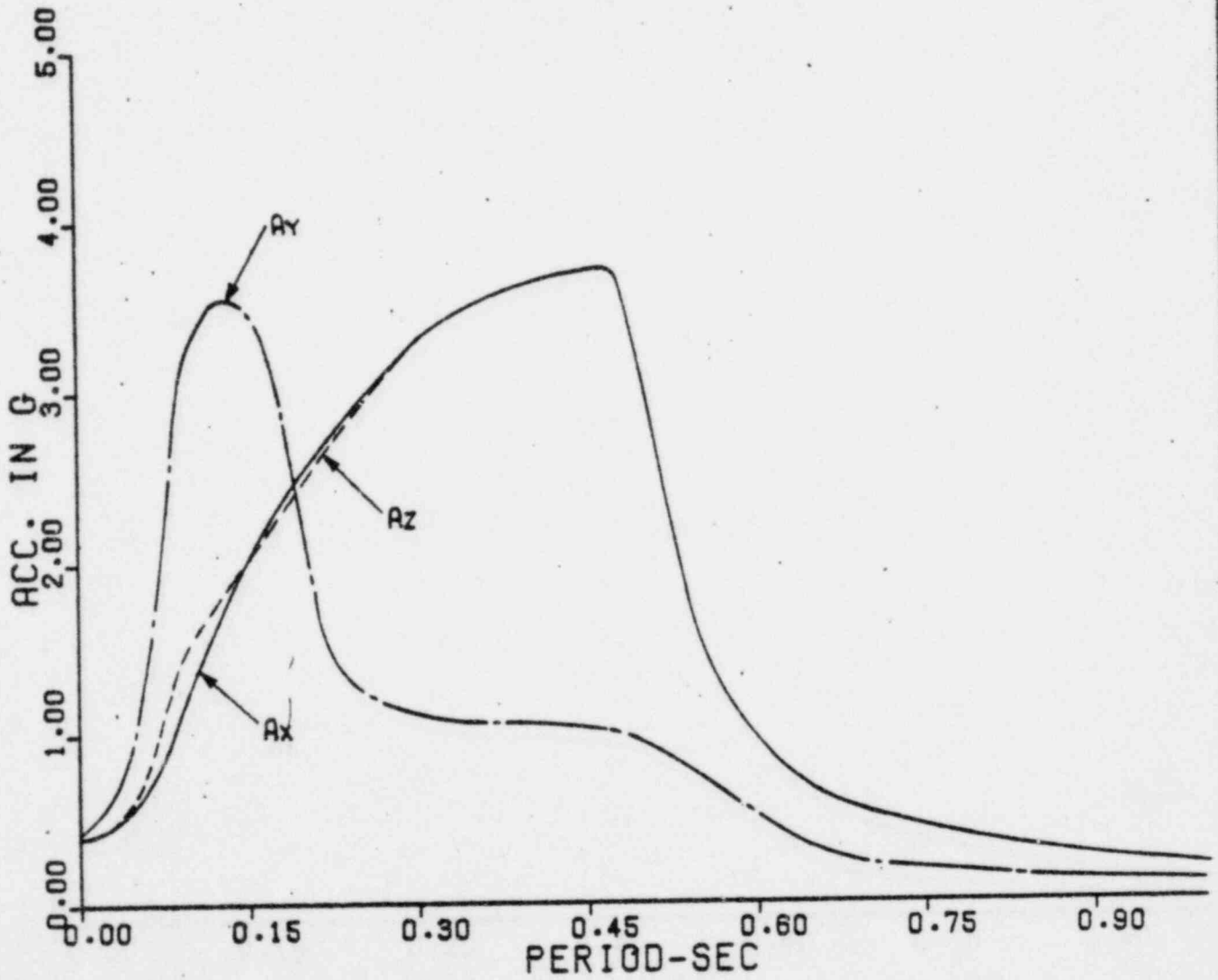
SCALE:-

FIGURE 1135A

ISSUED FOR

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 1000.50 FT
EQUIPMENT DAMPING: 0.02
1/2 SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



TUSI

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NEW YORK

JOB NO. 2323-A

SCALE: -

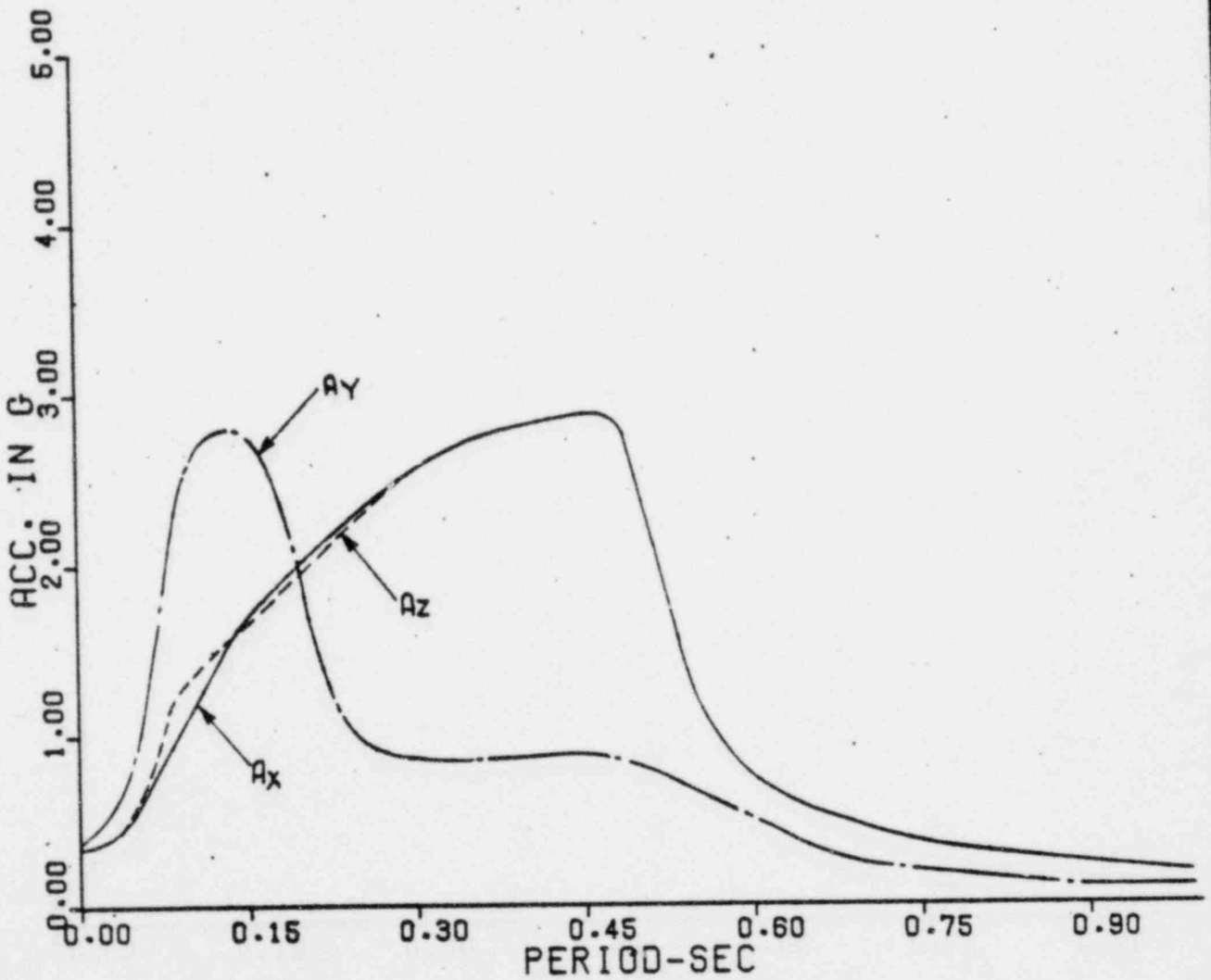
FIGURE 1136A

ISSUED FOR

APPROVALS

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 950.58 FT.
EQUIPMENT DAMPING: 0.02
1/2 SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



TUSI

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ENGINEERS, DESIGNERS, CONSTRUCTORS
NEW YORK

JOB NO. 2323-A

SCALE:-

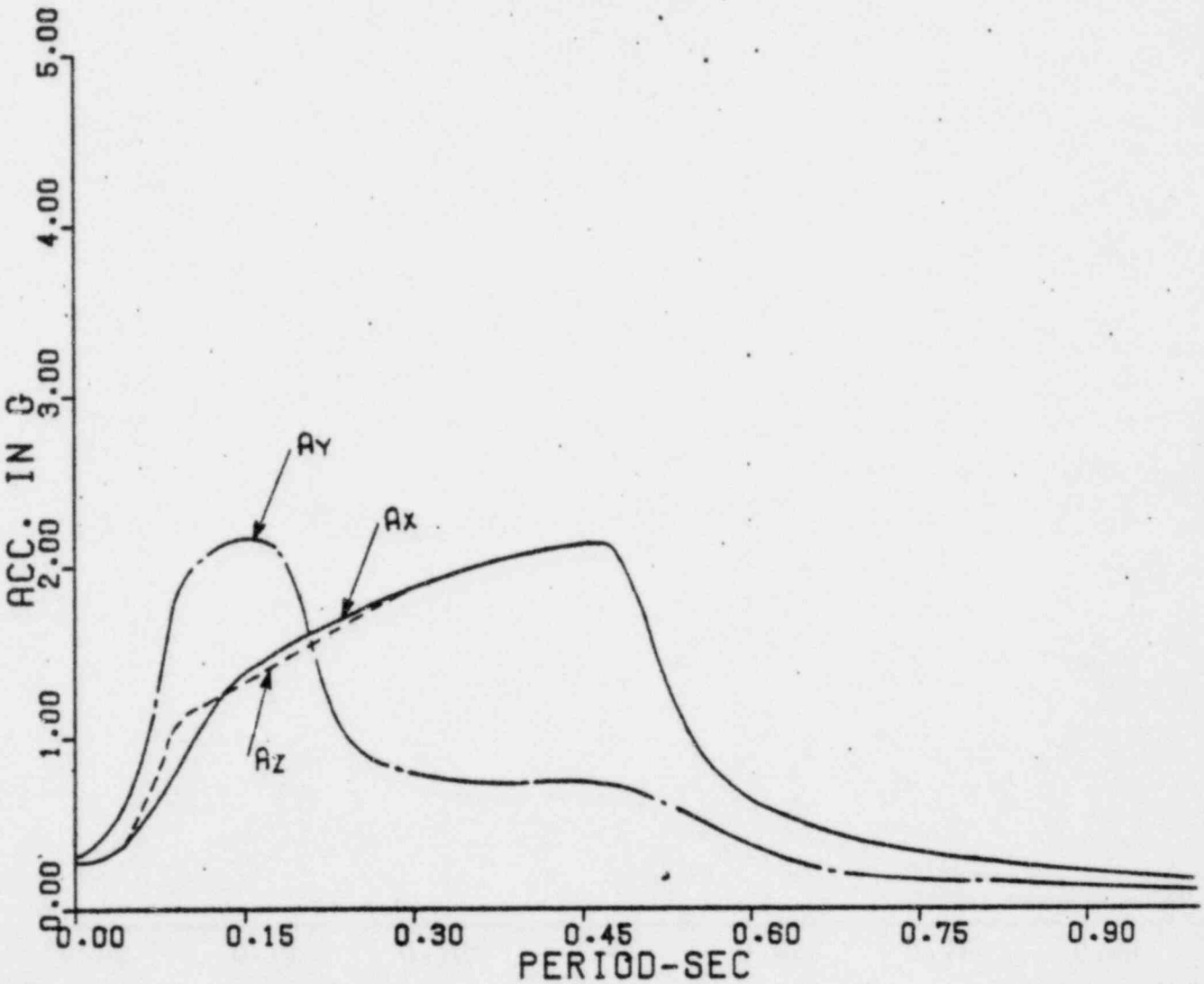
FIGURE 1137 A

ISSUED FOR

APPROVALS

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 985.75 FT.
EQUIPMENT DAMPING: 0.02
1/2 SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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NEW YORK

JOB NO. 2325-A

SCALE: -

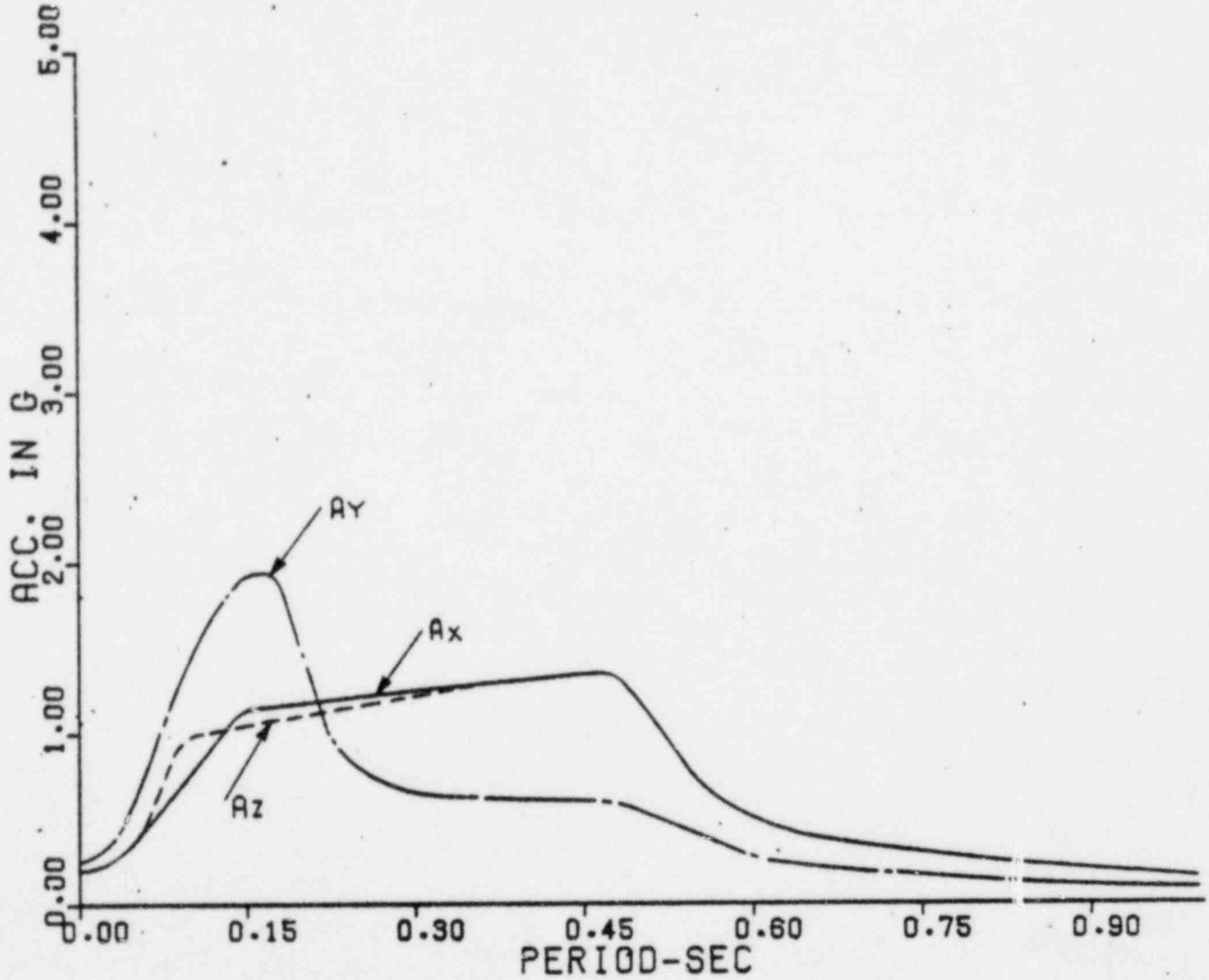
FIGURE 1138A

APPROVALS

ISSUED FOR

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 860.00 FT.
EQUIPMENT DAMPING: 0.02
1/2 SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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NEW YORK

JOB NO. 2323-A

SCALE: -

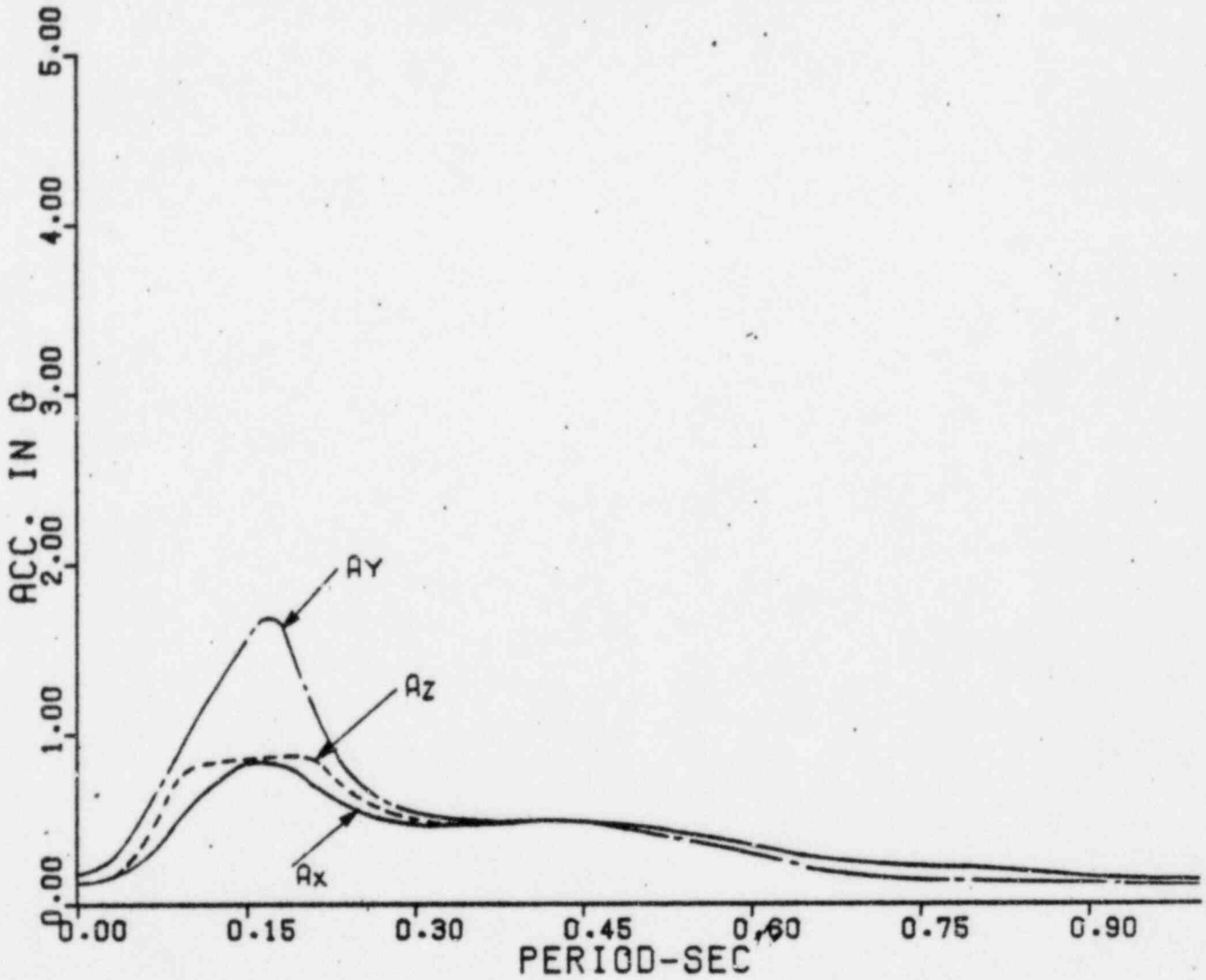
FIGURE 1139 A

APPROVALS

ISSUED FOR

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 805.50 FT.
EQUIPMENT DAMPING: 0.02
1/2 SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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NEW YORK

JOB NO. 2523-A

SCALE: -

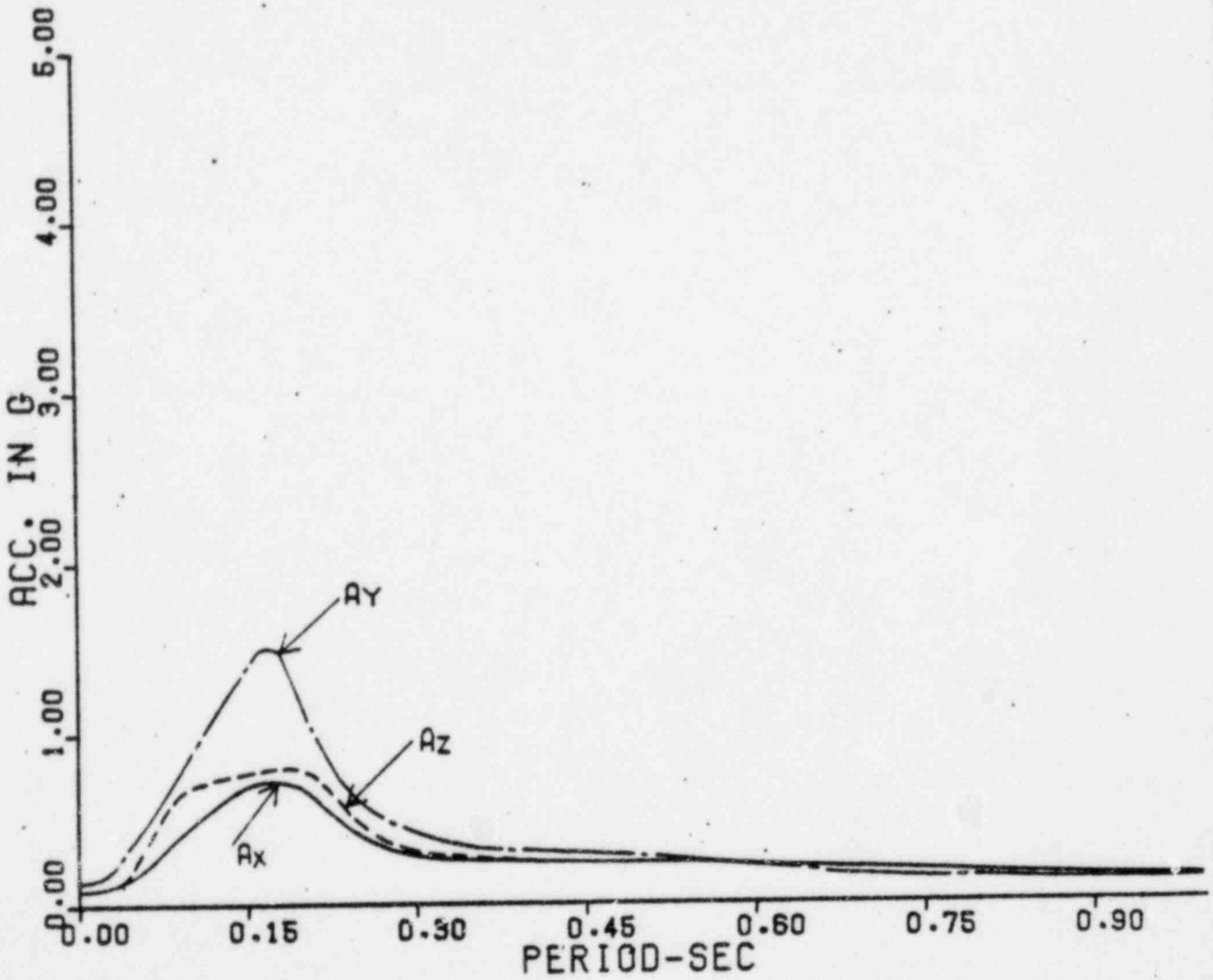
FIGURE 1140A

REVISION NO.	DATE	REVN.	CHKD.	DWG. LTR.	ARCH.	STRUCT.	MECH.	ELEC.	CIVIL & STRUC.	HVAC.	CAP.	P.M.
					APPROVALS							

ISSUED FOR

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 783.58 FT.
EQUIPMENT DAMPING: 0.02
1/2 SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



TUSI

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NEW YORK

JOB NO. 2323-A

SCALE:-

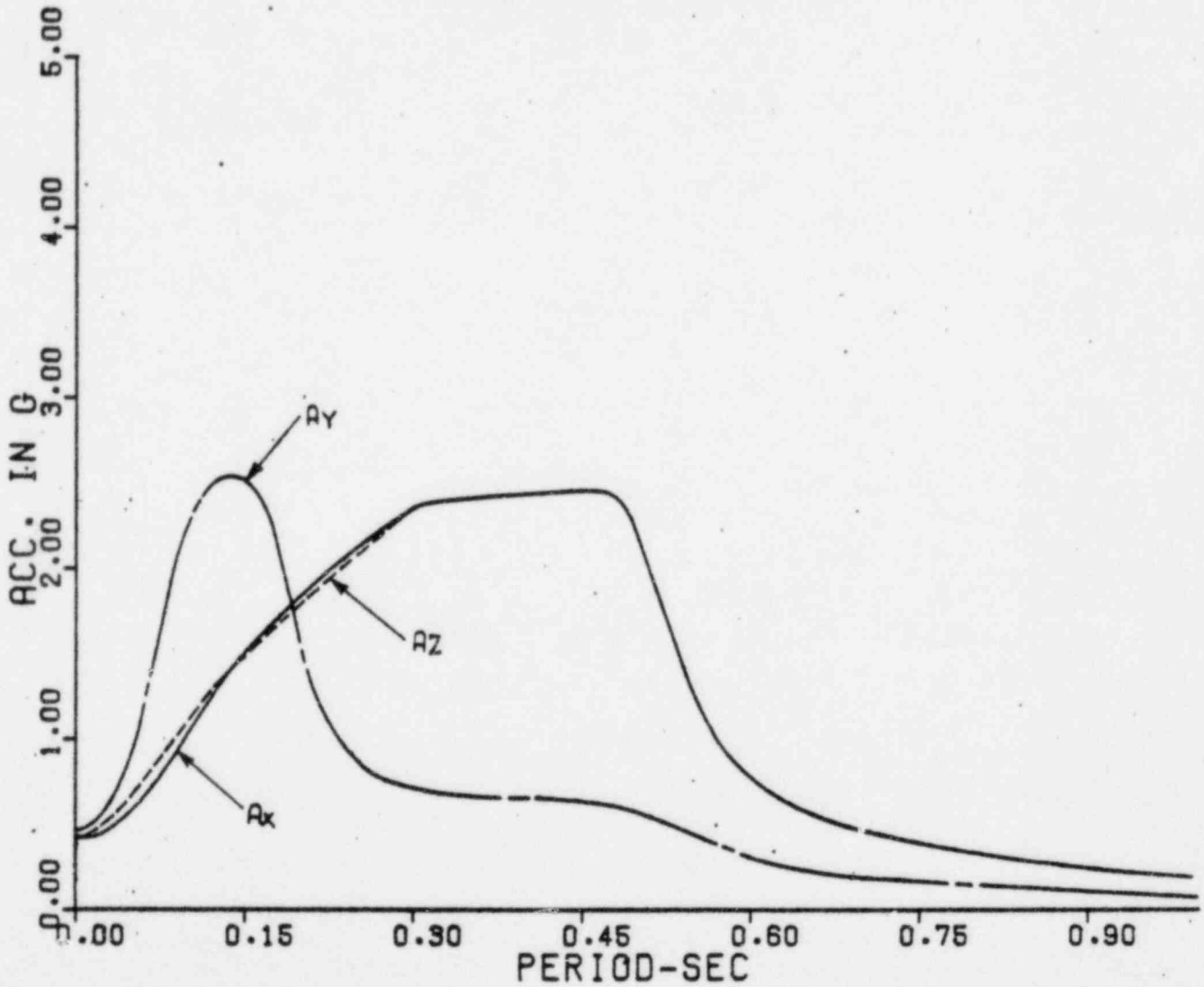
FIGURE 1141

APPROVALS

ISSUED FOR

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 1000.50 FT
EQUIPMENT DAMPING: 0.04
1/2 SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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ENGINEERS, SCIENTISTS, CONSTRUCTORS
NEW YORK

JOB NO. 2323-A

SCALE: -

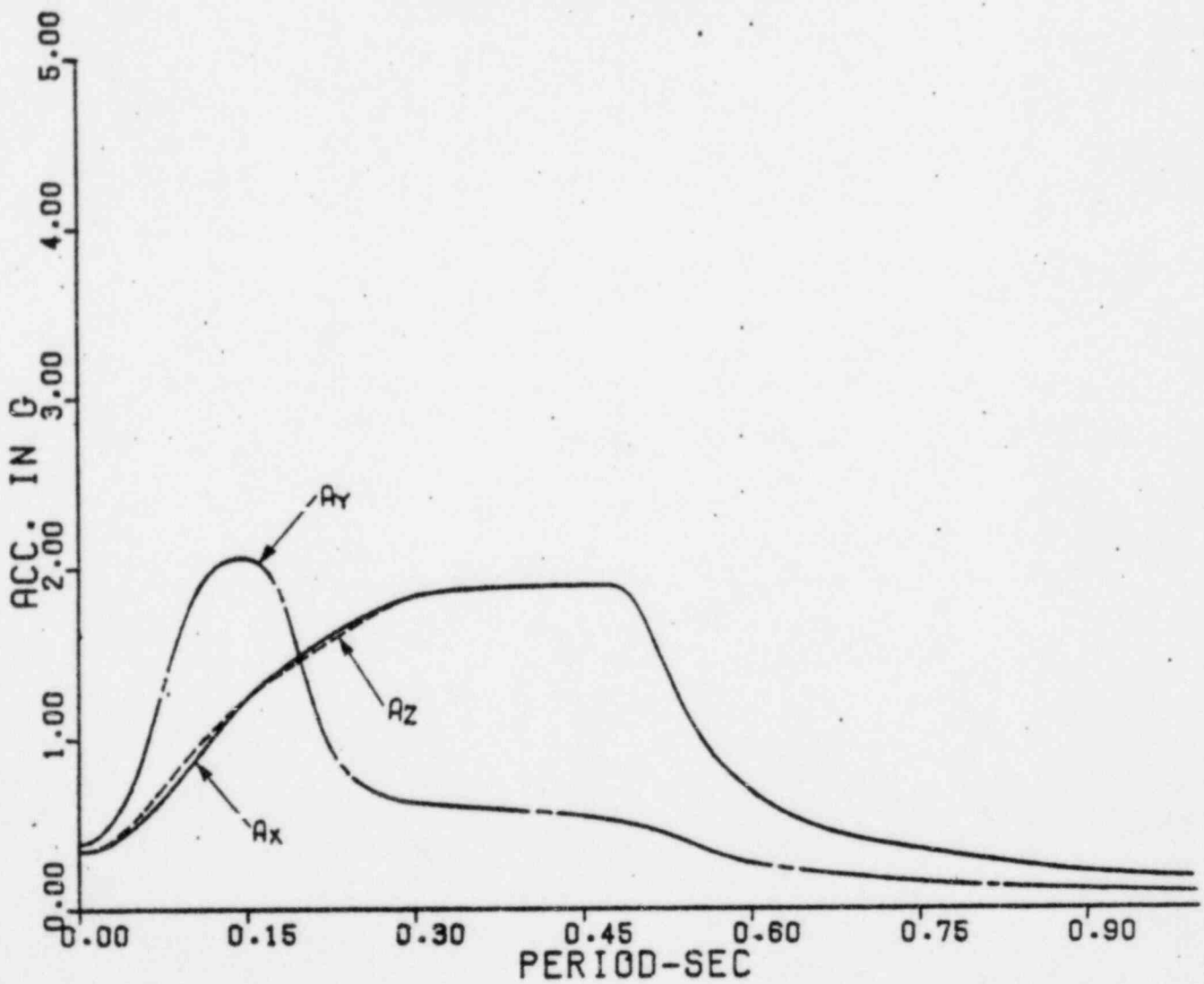
FIGURE 1142A

APPROVALS

ISSUED FOR

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 950.58 FT.
EQUIPMENT DAMPING: 0.04
1/2 SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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ENGINEERS, DESIGNERS, CONSTRUCTORS
NEW YORK

JOB NO. 2325-A

SCALE:-

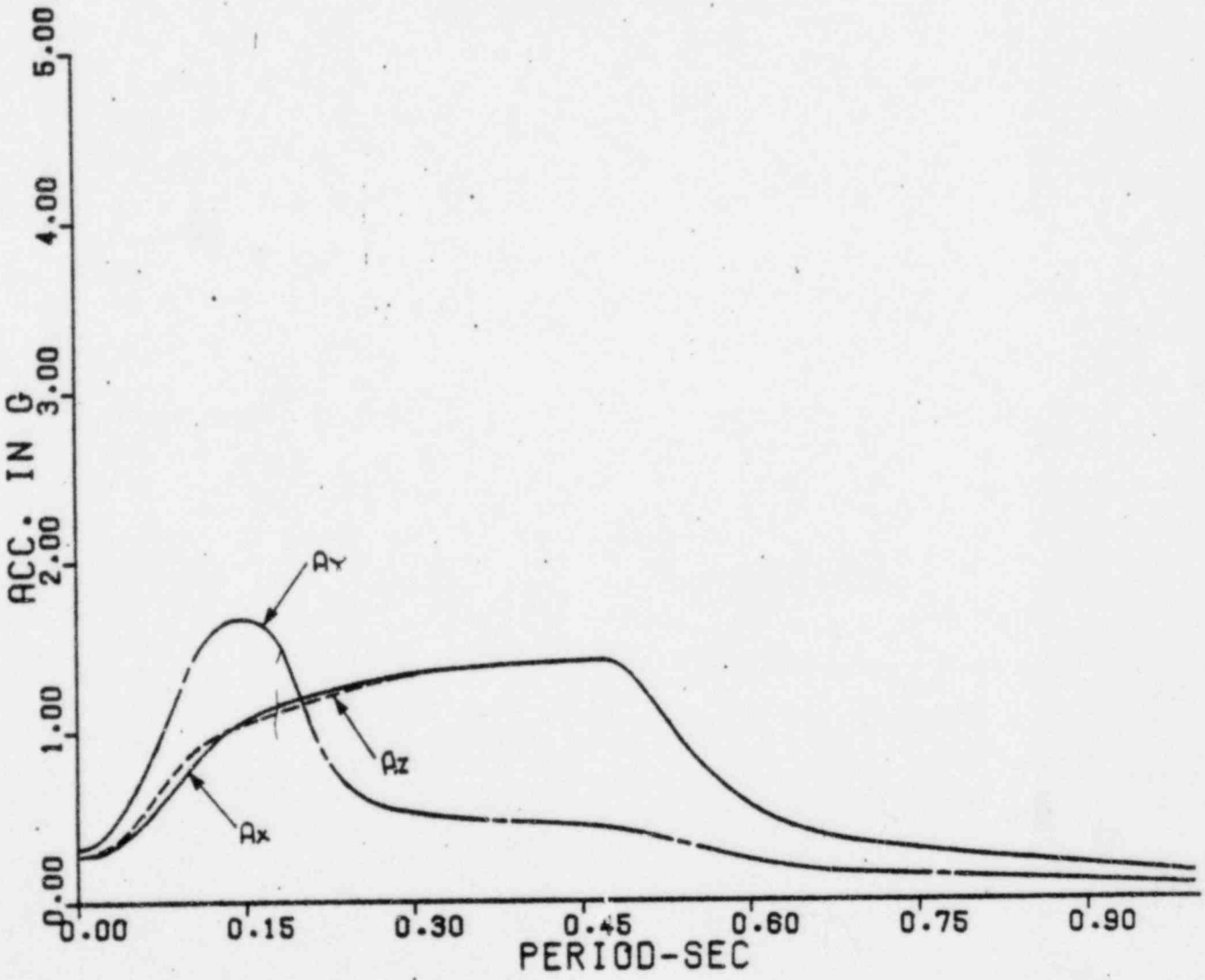
FIGURE 1143A

APPROVALS

ISSUED FOR

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 905.75 FT.
EQUIPMENT DAMPING: 0.04
1/2 SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



TUSI

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ENGINEERS, DESIGNERS, CONSTRUCTORS
NEW YORK

JOB NO. 2323-A

SCALE:-

FIGURE 1144A

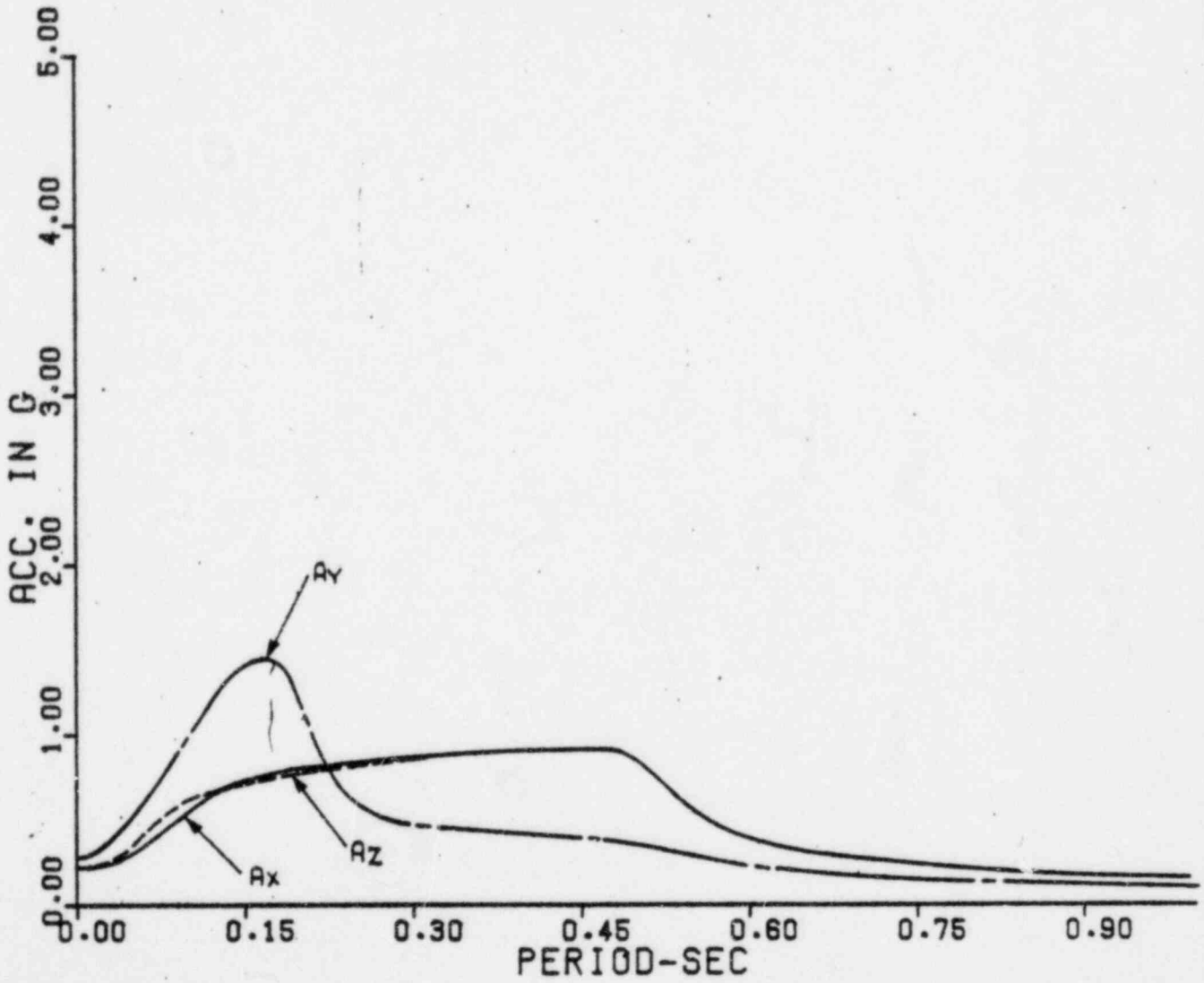
BY: CEM JJH

APPROVALS

ISSUED FOR

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 860.00 FT.
EQUIPMENT DAMPING: 0.04
1/2 SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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NEW YORK

JOB NO. 2323-A

SCALE:-

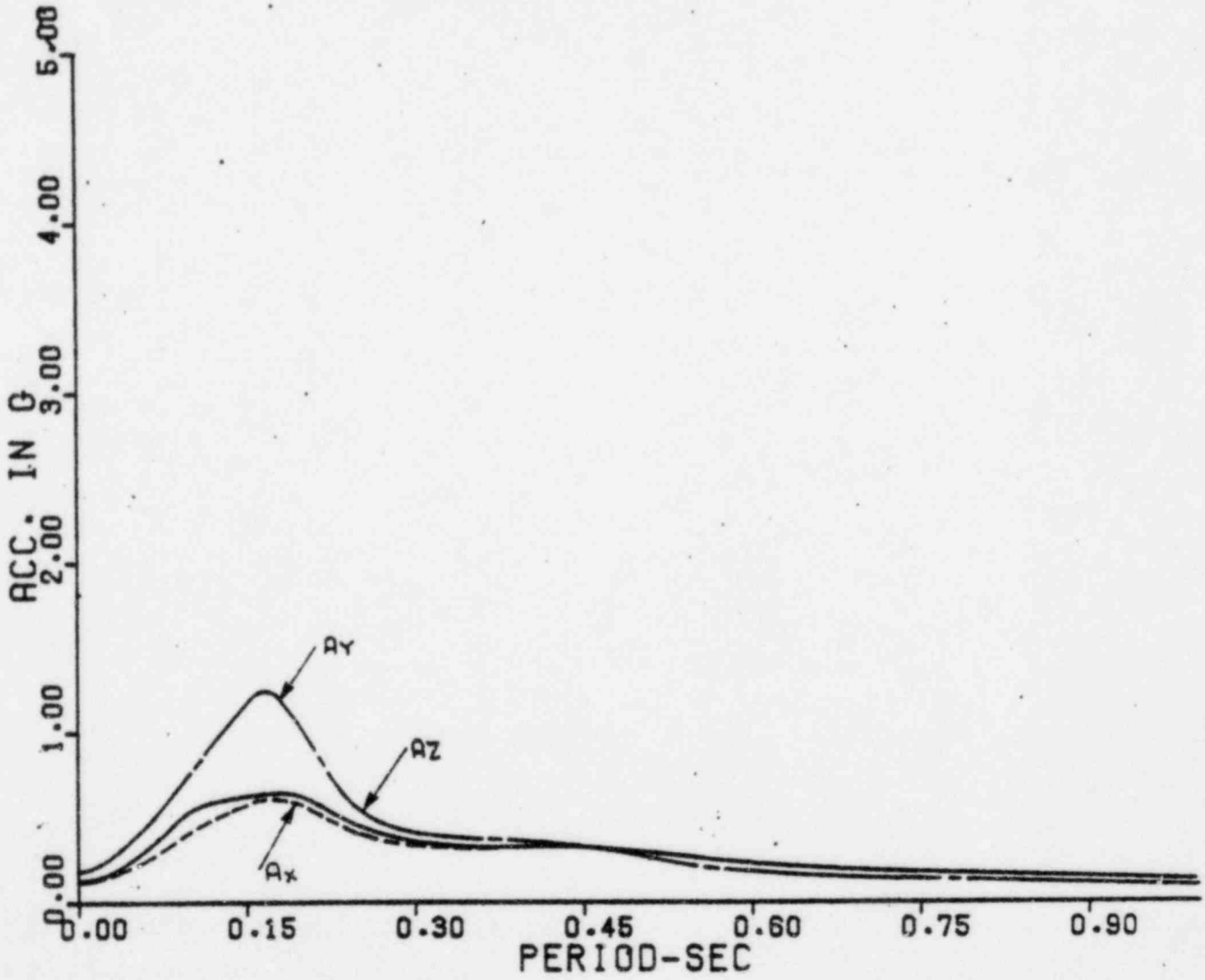
FIGURE 1145A

ISSUED FOR

APPROVALS

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 805.50 FT.
EQUIPMENT DAMPING: 0.04
1/2 SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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NEW YORK

JOB NO. 2323-A

SCALE: -

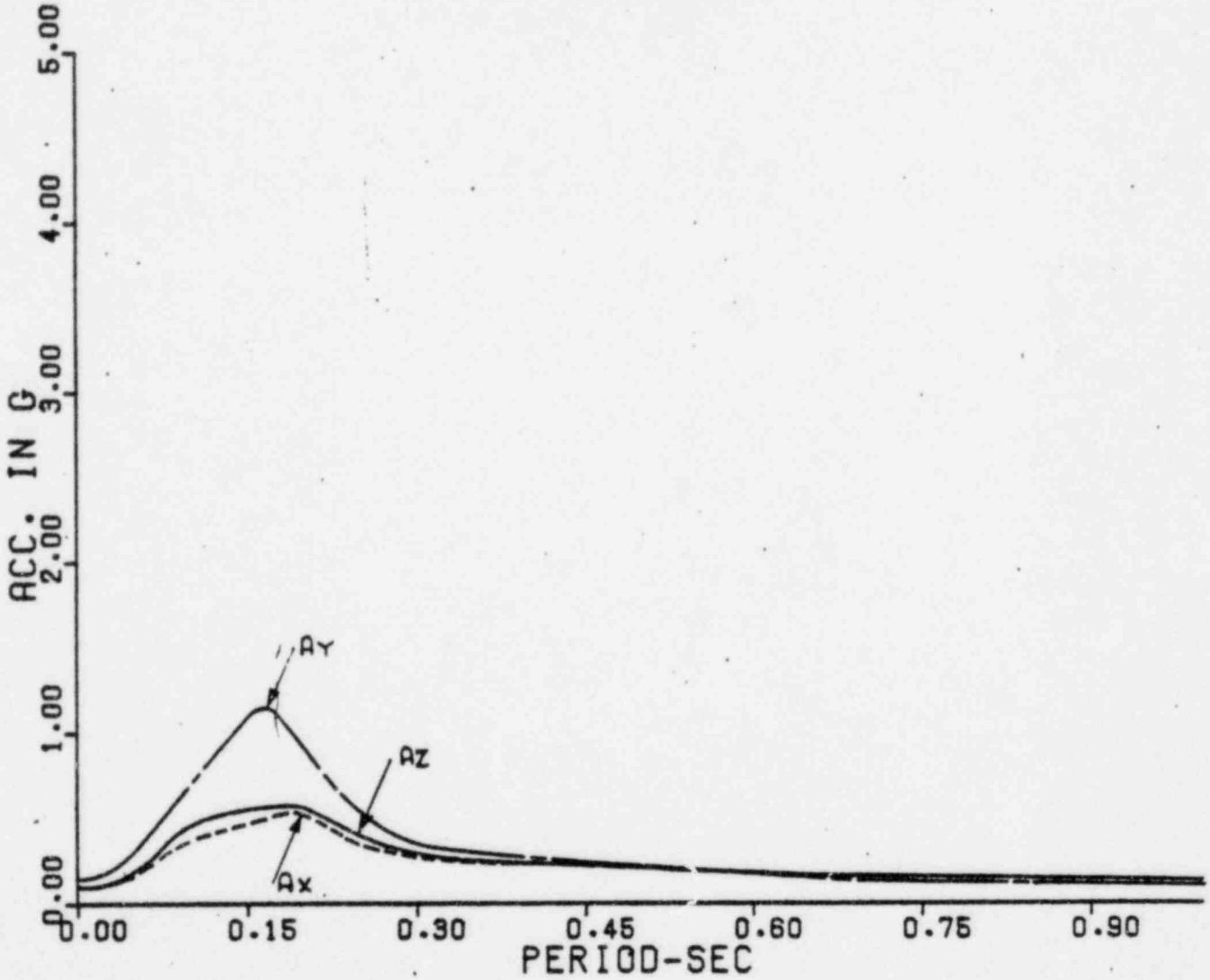
FIGURE 1146A

APPROVALS

ISSUED FOR

IN-STRUCTURE RESPONSE SPECTRA FOR:

CONTAINMENT BUILDING
ELEVATION: 783.58 FT.
EQUIPMENT DAMPING: 0.04
1/2 SSE EARTHQUAKE
AX: N-S AY: VERT. AZ: E-W



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NEW YORK

JOB NO. 2323-A

SCALE:-

FIGURE 1147A

APPROVALS

ISSUED FOR