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AUTH.NAME AUTHOR AFFILIATION
MANGAN,C.V. Niagara Mohawk Power Corp.
RECIP.NAME RECIPIENT AFFILIATION
SCHWENCER,A. Licensing Branch 2

SUBJECT: Forwards package of updated seismic hydrodynamic qualification master list & response spectra.Equipment qualification audit re seismic & pump & valve operability requested in May 1985. See Rpt 3 VOLS

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NIAGARA MOHAWK

NIAGARA MOHAWK POWER CORPORATION/300 ERIE BOULEVARD WEST, SYRACUSE, N.Y. 13202/TELEPHONE (315) 474-1511

April 12, 1985
(NMP2L 0385)

Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Dear Mr. Schwencer:

Re: Nine Mile Point Unit 2
Docket No. 50-410

The attached copies of the Seismic Hydrodynamic Qualification Master List are an update to item #4 of the data package originally sent to you March 5, 1985. Also attached are copies of the required response spectra for Nine Mile Point Unit 2.

The information provided shows that approximately 85 percent of the required equipment is qualified, more than 85 percent will be qualified in May 1985. We request an equipment qualification audit in May 1985 to review seismic and pump and valve operability for Nine Mile Point Unit 2.

Very truly yours,

CVMangan

C. V. Mangan
Vice President
Nuclear Engineering & Licensing

JM:ja
Attachment
xc: R. Gramm, NRC Resident Inspector
C. Hoffmeyer (w/attachment
B. Miller (w/attachment)
Project File (2)

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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the Matter of	)	
	)	
Niagara Mohawk Power Corporation	)	Docket No. 50-410
	)	
(Nine Mile Point Unit 2)	)	

AFFIDAVIT

C. V. Mangan, being duly sworn, states that he is Vice President of Niagara Mohawk Power Corporation; that he is authorized on the part of said Corporation to sign and file with the Nuclear Regulatory Commission the documents attached hereto; and that all such documents are true and correct to the best of his knowledge, information and belief.

C V Mangan

Subscribed and sworn to before me, a Notary Public in and for the State of New York and County of Onondaga, this 12th day of April, 1985.

Christine Austin
Notary Public in and for
Onondaga County, New York

My Commission expires:

CHRISTINE AUSTIN
Notary Public in the State of New York
Qualified in Onondaga Co. No. 4787687
My Commission Expires March 30, 1987

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL METH: ANLYS	TEST	NAT FREQ: LOWEST	RRS REF: STATUS: QUAL	INST
2CMS*TSH 59A	A/D CONVERTER / FOXBORO	COIL	CB	288	RM	Y	NA	NA	MF	NA	17 A	Y
2CMS*TSH 59B											17 A	Y
2CMS*TSHX135											17 A	Y
2CMS*TSHX145											17 A	Y
2CMS*TSHX 151											17 A	Y
2CMS*TSHX 153											17 A	Y

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2GTS*FSL10A	A/D CONVERTER FOXBORO	C071L	CB	288	RM	Y	NA	NA	MF	N/A	17 A	Y
2GTS*FSL10B											17 A	Y
2GTS*PDSH5A											17 A	Y
2GTS*PDSH5B											17 A	Y
2GTS*PDSH21A											17 A	Y
2GTS*PDSH21B											17 A	Y

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2HCS*FSL21A	A/D CONVERTER / FOXBORO	COIL	CB	288	RM	Y	NA	NA	MF	NA	17 / A	Y
2HCS*FSL21B											17 / A	Y
2HCS*PSH19A											17 / A	Y
2HCS*PSH19B											17 / A	Y
2HCS*TSH13A											17 / A	Y
2HCS*TSH13B											17 / A	Y
2HCS*TSH14A											17 / A	Y
2HCS*TSH14B											17 / A	Y
2HCS*TSH15A											17 / A	Y
2HCS*TSH15B											17 / A	Y

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2HCS*TSH16A	A/D CONVERTER / FOXBORO	C071L	CB	2BB	RM	Y	NA	NA	MF	NA	17 / A	Y
2HCS*TSH16B											17 / A	Y
2HCS*TSH17A											17 / A	Y
2HCS*TSH17B											17 / A	Y
2HCS*TSH18A											17 / A	Y
2HCS*TSH18B											17 / A	Y
2HCS*TSH20A											17 / A	Y
2HCS*TSH20B											17 / A	Y

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2HCS*TSHH16A	A/D CONVERTER / FOXBORO	C071L	CB	288	RM	Y	NA	NA	MF	N/A	17 / A	Y
2HCS*TSHH16B											17 / A	Y
2HCS*TSHH17A											17 / A	Y
2HCS*TSHH17B											17 / A	Y

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2HVC*PDSH50A	A/D CONVERTER / FOXBORO	COTIL	CB	288	RM	Y	NA	NA	MF	N.A	17	A	Y
2HVC*PDSH50B											17	A	Y
2HVC*TS34A											17	A	Y
2HVC*TS34B											17	A	Y
2HVC*TS37A											17	A	Y
2HVC*TS37B											17	A	Y
2HVC*TSH38A											17	A	Y
2HVC*TSH38B											17	A	Y
2HVC*TSH111											17	A	Y
2HVC*TSH155											17	A	Y
2HVC*TSH165											17	A	Y
2HVC*TSH174											17	A	Y

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2HVC*TSH198	A/D CONVERTER / FOXBORO	C071L	CB	288	RM	Y	NA	NA	MF	N/A	17 / A	Y
2HVC*TSHH38A											17 / A	Y
2HVC*TSHH38B											17 / A	Y
2HVC*TSHH111											17 / A	Y
2HVC*TSHH155											17 / A	Y
2HVC*TSHH165											17 / A	Y
2HVC*TSHH174											17 / A	Y
2HVC*TSHH198											17 / A	Y

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2HVC*TSHX34A	A/D CONVERTER / FOXBORO	C071L	CB	288	RM	Y	NA	NA	MF	NA	17 A	Y
2HVC*TSHX34B											17 A	Y
2HVC*TSHX37A											17 A	Y
2HVC*TSHX37B											17 A	Y
2HVC*TSHY34A											17 A	Y
2HVC*TSHY34B											17 A	Y
2HVC*TSHY37A											17 A	Y
2HVC*TSHY37B											17 A	Y

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2HVC*TSL111	A/D CONVERTER FOXBORO	C071L	CB	288	RM	Y	NA	NA	MF	NA	17 A	Y
2HVC*TSL155											17 A	Y
2HVC*TSL165											17 A	Y
2HVC*TSL174											17 A	Y
2HVC*TSL198											17 A	Y
2HVK*FSL15A											17 A	Y
2HVK*FSL15B											17 A	Y

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2IAS*PSH181	A/D CONVERTER / FOXBORO	C071L	CB	288	RM	Y	NA	NA	MF	NA	17 A	Y
2IAS*PSH186											17 A	Y
2IAS*PSL181											17 A	Y
2IAS*PSL186											17 A	Y
2IAS*PSL230											17 A	Y
2IAS*PSL231											17 A	Y
2IAS*PSL232											17 A	Y
2IAS*PSL233											17 A	Y
2IAS*PSL234											17 A	Y
2IAS*PSL235											17 A	Y
2IAS*PSL236											17 A	Y

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2IAS*PSLL181	A/D CONVERTER FOXBORO	C071L	CB	28B	RM	Y	NA	NA	MF	N A	17 A	Y
2IAS*PSLL186											17 A	Y
2IAS*PSNH181											17 A	Y
2IAS*PSNH186											17 A	Y
2IAS*PSNL181											17 A	Y
2IAS*PSNL186											17 A	Y

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2SFC*FSL36A	A/D CONVERTER / FOXBORO	C071L	CB	288	RM	Y	NA	NA	MF	NA	17	A	Y
2SFC*FSL36B											17	A	Y
2SFC*FSL58A											17	A	Y
2SFC*FSL58B											17	A	Y
2SFC*FSLL58A											17	A	Y
2SFC*FSLL58B											17	A	Y
2SFC*LSH32A											17	A	Y
2SFC*LSH32B											17	A	Y
2SFC*LSL32A											17	A	Y
2SFC*LSL32B											17	A	Y

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2SFC*PSL3A	A/D CONVERTER / FOXBORO	C071L	CB	288	RM	Y	NA	NA	MF	N.A	17	A Y
2HFC*PSL3B											17	A Y
2SFC*PSL30A											17	A Y
2SFC*PSL30B											17	A Y
2SFC*TSH8A											17	A Y
2SFC*TSH8B											17	A Y
2SFC*TSH31A											17	A Y
2SFC*TSH31B											17	A Y

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2SWP*FSL29A	A/D CONVERTER / FOXBORO	C071L	CB	288	RM	M1	NA	NA	MF	N.A	17 / A	Y
2SWP*FSL29B											17 / A	Y
2SWP*FSL76A											17 / A	Y
2SWP*FSL76B											17 / A	Y
2SWP*FSL96A											17 / A	Y
2SWP*FSL96B											17 / A	Y
2SWP*FSL96C											17 / A	Y
2SWP*FSL96D											17 / A	Y
2SWP*FSL96E											17 / A	Y
2SWP*FSL96F											17 / A	Y

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2SWP*FSL523	A/D CONVERTER FOXBORO	C0712	CB	288	RM	Y	NA	NA	MF	NA	17 A	Y
2SWP*FSL534											17 A	Y
2SWP*FSL535											17 A	Y
2SWP*PSL2A											17 A	Y
2SWP*PSL2B											17 A	Y
2SWP*PSL4A											17 A	Y
2SWP*PSL4B											17 A	Y
2SWP*PSL4C											17 A	Y
2SWP*PSL4D											17 A	Y
2SWP*PSL4E											17 A	Y
2SWP*PSL4F											17 A	Y

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2SWP*PSL66A	A/D CONVERTER FOXBORO	COIL	CB	288	RM	Y	NA	NA	MF	N'A	17	A	Y
2SWP*PSL66B											17	A	Y
2SWP*PSL79A											17	A	Y
2SWP*PSL79B											17	A	Y
2SWP*PSL95A											17	A	Y
2SWP*PSL95B											17	A	Y
2SWP*PSL139A											17	A	Y
2SWP*PSL139B											17	A	Y
2SWP*PSL140A											17	A	Y
2SWP*PSL140B											17	A	Y
2SWP*PSL141A											17	A	Y
2SWP*PSL142B											17	A	Y

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2SWP*TSL64A	A/D CONVERTER FOXBORO	C071L	CB	288	RM	Y	NA	NA	MF	N A	17 A	Y
2SWP*TSL64B											17 A	Y
2SWP*TSL65A											17 A	Y
2SWP*TSL65B											17 A	Y
2SWP*TSL91A											17 A	Y
2SWP*TSL91B											17 A	Y

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2GTS*PDIK5A	CONTROL STATION / FOXBORO	COIL	CB	306	CM	Y	NA	NA	MF	NA	18 A	Y
2GTS*PDIK5B											18 A	Y
2HCS*TIK20A											18 A	Y
2HCS*TIK20B											18 A	N
2SWP*HIC54A											18 A	Y
2SWP*HIC54B											18 A	Y
2SWP*TIK35A											18 A	Y
2SWP*TIK35B											18 A	Y

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2SWP*PWRS1A	LOOP POWER SUPPLY / FOXBORO	C071C	CB	288	RM	Y	N	N	MF	NA	17	A	Y
2SWP*PWRS1B											17	A	Y
2SWP*PWRS1C											17	A	Y
2SWP*PWRS1D											17	A	Y
2SWP*PWRS1E											17	A	Y
2SWP*PWRS1F											17	A	Y
2SWP*PWRS267A											17	A	Y
2SWP*PWRS267B											17	A	Y

REPORT DATE

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2SWP*FY254A	INPUT ISOLATOR FOXBORO	0071L	CB	288	RM	Y	N	N	MF	NA	17 A	N
2SWP*FY254B	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	17 A	N

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NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL METH: ANLYS	TEST	NAT FREQ: LOWEST	RRS REF / STATUS: QUAL	INST
2SFC*TT8A	RTD CONVERTER / FOXBORO	C071L	CB	288	RM	Y	N	N	MF	NA	17 / A	Y
2SFC*TT8B	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	17 / A	Y
2SFC*TT31A	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	17 / A	Y
2SFC*TT31B	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	17 / A	Y

JOB NAME NMP- UNIT 2
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SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2SWP*FY54A	SQUARE ROOT CONVERTER / FOXBORO	C071L	CB	288	RM	Y	NA	NA	MF	NA	17 A	N
2SWP*FY54B	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	17 A	N

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NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVP*TC11A	CONTROLLER / FOXBORO	C071L	CB	288	RM	Y	NA	NA	MF	NA	17 A	Y
2HVP*TC11B	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	17 A	Y
2HVP*TC103	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	17 A	Y

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NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL METH: ANLYS	TEST	NAT FREQ: LOWEST	RRS REF:	STATUS: QUAL	INST
2SWP*PDSHHX1A	RELAY / FOXBORO	COIL	CB	288	RM	Y	NA	NA	MF	NA	17	A	Y
2SWP*PDSHHX1B											17	A	Y
2SWP*PDSHHX1C											17	A	Y
2SWP*PDSHHX1D											17	A	Y
2SWP*PDSHHX1E											17	A	Y
2SWP*PDSHHX1F											17	A	Y
2SWP*PDSHX1A											17	A	Y
2SWP*PDSHX1B											17	A	Y
2SWP*PDSHX1C											17	A	Y
2SWP*PDSHX1D											17	A	Y
2SWP*PDSHX1E											17	A	Y
2SWP*PDSHX1F											17	A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2GTS*PDSLX5A	RELAY / FOXBORO	COIL	CB	288	RM	Y	NA	NA	MF	NA	17 A	Y
2GTS*PDSLX5B											17 A	Y
2SFC*LSHX32A											17 A	Y
2SFC*LSHX32B											17 A	Y

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EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	MTG	LOADS: SEIS	HYDR	QUAL METH: ANLYS	TEST	NAT FREQ: LOWEST	RRS REF:	STATUS: QUAL	INST
2SWP*PDSH1A	A/D CONVERTER / FOXBORO	C071L	CB	288	RM	Y	NA	NA	MF	NA	17	A	Y
2SWP*PDSH1B											17	A	Y
2SWP*PDSH1C											17	A	Y
2SWP*PDSH1D											17	A	Y
2SWP*PDSH1E											17	A	Y
2SWP*PDSH1F											17	A	Y
2SWP*PDSHH1A											17	A	Y
2SWP*PDSHH1B											17	A	Y
2SWP*PDSHH1C											17	A	Y
2SWP*PDSHH1D											17	A	Y
2SWP*PDSHH1E											17	A	Y
2SWP*PDSHH1F											17	A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HCS*TSL 20A	A/D CONVERTER, FOXBORO	C071L	CB	288	RM	Y	N	N	MF	NA	17 A	Y
2HCS*TSL 20B											17 A	Y
2HVP*TSH 10A											17 A	Y
2HVP*TSH10B											17 A	Y
2HVP*TSH107											17 A	Y
2HVP*TSL10A											17 A	Y
2HVP*TSL10B											17 A	Y
2HVP*TSL107											17 A	Y

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EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	MTG	LOADS: SEIS	HYDR	QUAL METH: ANLYS	TEST	NAT FREQ: LOWEST	RRS REF: STATUS: QUAL	INST
2BYS*E/E1A	E/E CONVERTER / FOXBORO	C071L	CB	288	RM	Y	NA	NA	MF	NA	17 A	N
2BYS*E/E1B	↓	↓	↓	↓		↓	↓	↓	↓	↓	17 A	N
2BYS*E/E101	↓	↓	↓	↓		↓	↓	↓	↓	↓	17 A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	HETH- TEST	NAT FREQ- LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2CMS*TSHX59A	RELAY / FOXBORO	C071L	CB	288	RM	Y	NA	NA	MF	NA	17 A	Y
2CMS*TSHX59B	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	17 A	Y
2CMS*TSHX59C	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	17 A	Y
2CMS*TSHX59D	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	17 A	Y

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EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL METH: ANLYS	TEST	NAT FREQ: LOWEST	RRS REF: STATUS: QUAL	INST
2CEC*JX828A	WEST Power Distrib. Mod. / FOXBORO	C071L	CB	288	RM	Y	NA	N	MF	NA	17 A	Y
2CEC*JX828B											17 A	Y
2CEC*JX828C											17 A	Y
2CEC*JX828D											17 A	Y
2CEC*JX828E											17 A	Y
2CEC*JX828F											17 A	Y
2CEC*JX829A											17 A	Y
2CEC*JX829B											17 A	Y
2CEC*JX829C											17 A	Y
2CEC*JX829D											17 A	Y
2CEC*JX829E											17 A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2CEC*JX830A	Nest Power Distrib. Module / Foxboro	C071L	CB	288	RM	Y	NA	N	MF	NA	17 A	Y
2CEC*JX830B											17 A	Y
2CEC*JX830C											17 A	Y
2CEC*JX830D											17 A	Y
2CEC*JX830E											17 A	Y
2CEC*JX831A											17 A	Y
2CEC*JX831B											17 A	Y
2CEC*JX831C											17 A	Y
2CEC*JX831D											17 A	Y
2CEC*JX831E											17 A	Y
2CEC*JX831F											17 A	Y

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EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL METH: ANLYS	TEST	NAT FREQ: LOWEST	RRS REF: QUAL	INST
2CEC*JX883A	Nest Power Distrib. Module / Foxboro	C071L	CB	288	RM	Y	NA	N	MF	NA	17 A	Y
2CEC*JX883B											17 A	Y
2CEC*JX890A											17 A	Y
2CEC*JX890B											17 A	Y
2CEC*JX890C											17 A	Y
2CEC*JX890D											17 A	Y
2CEC*JX890E											17 A	Y
2CEC*JX890F											17 A	Y
2CEC*JX891A											17 A	Y
2CEC*JX891B											17 A	Y
2CEC*JX891C											17 A	Y
2CEC*JX891D											17 A	Y

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2CEC*JX891E	Next Power Distrib. Module / Foxboro	C071L	CB	288	RM	Y	N	N	MF	NA	17	A	Y
2CEC*JX891F											17	A	Y
2CEC*JX894A											17	A	Y
2CEC*JX894B											17	A	Y
2CEC*JX894C											17	A	Y
2CEC*JX895A											17	A	N
2CEC*JX895B											17	A	N
2CEC*JX895C											17	A	N
2CEC*JX896A											17	A	Y
2CEC*JX896B											17	A	Y
2CEC*JX896C											17	A	Y
2CEC*JX896D											17	A	Y

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2CEC*JX 896E	Nest Power Distrib. Module / Foxboro	C071L	CB	288	RM	Y	NA	N	MF	NA	17	A	Y
2CEC*JX 897A											17	A	Y
2CEC*JX 897B											17	A	Y
2CEC*JX897C											17	A	Y
2CEC*JX897D											17	A	Y
2CEC*JX897E											17	A	Y
2HVC*FY10A	SQUARE ROOT CONVERTER / FOXBORO	C071L	CB	288	RM	Y	NA	N	MF	NA	17	A	N
2HVC*FY10B											17	A	N
2HVC*PWRS10B	LOOP POWER SUPPLY / FOXBORO										17	A	N
2HVC*PWRS10A											17	A	N

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2SWP*FYX54A	SQUARE ROOT CONVERTER FOXBORO	C0711	CB	288	RM	Y	N	N	MF	NA	17 A	N
2SWP*FYX54B	↓	↓	CB	288	RM	Y	N	N	MF	NA	17 A	N

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2CCP*PT90A	PRESS IND. / ROSEMOUNT	COTIM	RB	261	RM	Y	NA	NA	MF	21	60	A	N
90B	PRESS. IND. / ROSEMOUNT			290							61	A	N
2CMS*LT9A	SUPP POOL LEVEL / ROSEMOUNT			175							64	A	Y
9B				179							63	A	Y
2CMS*LT11A				175							64	A	Y
11B				188							63	A	Y
2CMS*PT1A	CONT. DRYWELL PRESS. / ROSEMOUNT			289							59	A	N
1B				289							59	A	N
2CMS*PT2A				264							59	A	N
2B				261							60	A	N
2CMS*PT7A	SUPPRESSION CHAMB PRESS. / ROSEMOUNT			255							60	A	N
7B				261							60	A	N

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2GTS* FT10A	2GTS*FN1A Disch Flow / Rosemount	CO71M	SG	261	RM	Y	NA	NA	MF	21	3 / A	N
10B	↓		SG	261							3 / A	N
2GTS* PDT5A	RX Bldg in/out diff press / Rosemount		SG	265							3 / A	N
5B	↓		SG	265							3 / A	N
2HVK* FT15A	2HVK*CHLIB disch flow / Rosemount		CB	266							17 / A	Y
15B	↓		CB	266							17 / A	Y
2IAS* PT181	ADS Header Pressure / Rosemount		RB	294							58 / A	N
2IAS*PT186	↓			294							58 / A	N
2IAS*PT230	ADS Accumulator Tank / Rosemount			293							58 / A	N
2IAS* PT231	↓			293							58 / A	N
2IAS* PT232	↓			293							58 / A	N
2IAS*PT233	↓	↓	↓	306	↓	↓	↓	↓	↓	↓	58 / A	N

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
21AS*PT234	ADS Accumulatn Tank / Rosemount	COMM	RB	306	RM	Y	NA	NA	MF	21	58 A	N
235	↓	↓	↓	306	↓	↓	↓	↓	↓	↓	58 A	N
236	↓	↓	↓	306	↓	↓	↓	↓	↓	↓	58 A	N
2RHS*FT60A	RHS Hx Disch Flow / Rosemount	↓	↓	180	↓	↓	↓	↓	↓	↓	63 A	N
60B	↓	↓	↓	180	↓	↓	↓	↓	↓	↓	63 A	N
2RHS*PT99A	RHS Steam Supply Rm ICS / Rosemount	↓	↓	180	↓	↓	↓	↓	↓	↓	63 A	N
99B	↓	↓	↓	180	↓	↓	↓	↓	↓	↓	63 A	N
2RSS*FT106	RCIC Pump Disch Flow / Rosemount	↓	↓	179	↓	↓	↓	↓	↓	↓	63 A	N
2RSS*LT105	Suppr. Pool Wtr Temp / Rosemount	↓	↓	179	↓	↓	↓	↓	↓	↓	63 A	N
2RSS*PT108	ADS Accum Tank Press / Rosemount	↓	↓	293	↓	↓	↓	↓	↓	↓	58 A	N
2RSS*PT109	↓	↓	↓	293	↓	↓	↓	↓	↓	↓	58 A	N
2RSS*PT110	↓	↓	↓	311	↓	↓	↓	↓	↓	↓	58 A	N

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2RSS*PT111	ADS Accum Tank Press. / Rosemount	C071M	RB	311	RM	Y	NA	NA	MF	21	58 / A	N
2SFC*FT36A	SF Pool Clg Sys Flow / Rosemount			220							61 / A	N
36B	↓			220							61 / A	Y
58A	SFC Pump Disch Flow / Rosemount			289							59 / A	N
58B	↓			289							59 / A	N
2SFC*LT32A	SF Pool Surge Tank Wtr Level / Rosemount			330							57 / A	N
32B	↓			328							58 / A	N
2SFC*PT3A	SF Pool Circ Pump S Press / Rosemount			261							60 / A	N
3B	↓			266							59 / A	N
2SFC*PT30A	SF Pool Circ Pump D. Press / Rosemount			261							59 / A	Y
30B	↓			266							59 / A	Y

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2SWP*FT29A	SWP Fr 2HVK*CHLIA flow / Rosemount	C071M	CB	265	RM	Y	NA	NA	MF	21	17 / A	Y
29B	↓		CB	266							17 / A	Y
2SWP*FT76A	2EGS*EG1 Cool. Wtr. Flow / Rosemount		DG	266							17 / A	Y
76B	2EGS*EG3 " / "		DG	266							17 / A	Y
2SWP*FT96A	SWP Pump Disch Flow / Rosemount		SB	240							5 / A	Y
96B				240							5 / A	Y
96C				240							5 / A	Y
96D				240							5 / A	Y
96E				240							5 / A	Y
96F				240							5 / A	Y
2SWP*FT535	COOLINGWATER FLOW / ROSEMOUNT		DG	265							17 / A	Y

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2SWP* FT200A	SWP Wtr Pump Disch Flow / Rosemount	COMM	SB	240	RM	Y	NA	NA	MF	21	5 / A	Y
200B				240							5 / A	Y
200C				240							5 / A	Y
200D				240							5 / A	Y
200E				240							5 / A	Y
200F				240							5 / A	Y
2SWP*FT201A	SWP Wtr Flow to RHS Hx / Rosemount		ABN	215							62 / A	Y
201B			RB	187							62 / A	Y
2SWP*FT523	SWP Loop B HDR FL to Lake / Rosemount		SB	250							5 / A	Y
2SWP*FT533			SB	250							5 / A	Y
2SWP*FT534	SWP Loop A HDR FL to Lake / Rosemount		SB	250							5 / A	Y
2SWP*FT567			DG	266							17 / A	Y

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UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2SWP*PDT1A	2SWP*STR4A Diff Press / Rosemount	COMM	SB	257	RM	Y	NA	NA	MF	21	6 A	Y
1B				257							6 A	Y
1C				257							6 A	Y
1D				257							6 A	Y
1E				257							6 A	Y
1F				257							6 A	Y
2SWP*PT2A	SWP Pump Disch Hdr Press / Rosemount			266							6 A	Y
2B				266							6 A	Y
2SWP*PT4A	SWP Pump Suct. Press. / Rosemount			228							5 A	Y
4B				228							5 A	Y
4C				228							5 A	Y
4D				228							5 A	Y

JOB NAME NMP- UNIT 2
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SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	EQUIPMENT: SPEC NO.	LOCATION: BLDG	LOCATION: ELEV	LOCATION: NTG	LOADS: SEIS	LOADS: HYDR	QUAL METH: ANLYS	QUAL METH: TEST	NAT FREQ: LOWEST	RRS REF: STATUS: QUAL	RRS REF: STATUS: INST
2SWP * PT4E	SWP Pump Suct. Press. / Rosemount	COMM	SB	228	RM	Y	NA	NA	MF	21	5 / A	Y
4F	↓			228							5 / A	Y
2SWP* PT6A	SWP Pump Disch Press / Rosemount			228							5 / A	Y
6B	↓			228							5 / A	Y
6C				228							5 / A	Y
6D				228							5 / A	Y
6E				228							5 / A	Y
6F	↓			228							5 / A	Y
2SWP* PT267A	SWP Header Press / Rosemount			250							5 / A	Y
267B	↓		↓	250							5 / A	Y
2SWP* PT66A	SWP to Clr 2EGS *EG / Rosemount		DG	266							17 / A	Y
66B	↓	↓	DG	266	↓	↓	↓	↓	↓	↓	17 / A	Y

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UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL METH: ANLYS	TEST	NAT FREQ: LOWEST	RRS REF: STATUS: QUAL	INST
25WP* PT79A	To pump 25WP*P2A / Rosemount	COMM	CB	267	RM	Y	NA	NA	MF	ZI	17 / A	Y
79B	To pump 25WP*P2B / Rosemount		CB	266							17 / A	Y
25WP*PT95A	Svce Wtr to Clr 2EGS*EG2 / Rosemount		DG	266							17 / A	Y
95B	↓		DG	266							17 / A	Y
25WP*PT139A	Service Wtr to Tbclcw / Rosemount		SB	261							6 / A	Y
139B	↓		SB	261							6 / A	Y
25WP*PT140A	SWP to CCP Ht Exchs Pr / Rosemount		ABN	202							62 / A	Y
140B	↓		ABN	202							62 / A	Y
25WP*PT142A	To Circ Wtr Pump Press / Rosemount		SB	250							5 / A	Y
142B	↓	↓	SB	250	↓	↓	↓	↓	↓	↓	5 / A	Y

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SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL METH ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2RHS*FT63A	FLOW TRANSMITTER / ROSEMOUNT	C071M	RB	261	RM	Y	NA	NA	MF	21	60 A	N
63B				261							60 A	N
64A				215							62 A	N
64B				215							62 A	N
2RSS*LT101	REACTOR VESSEL LEVEL / ROSEMOUNT			261							60 A	N
115				266							59 A	N
2RSS*PT102				261							60 A	N

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UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
25VV*IPNL140	Relief Valve Pos. Mon. Pnl. / TEC	C071W	CB	288	CF	Y	NA	NA	MF	37	17 / A	N
25VV*NBE220	Sensor / TEC		PC	297	LM	Y	Y	NA	MF	>1000	NA / A	N
25VV*NBE221											NA / A	N
25VV*NBE222											NA / A	N
25VV*NBE223											NA / A	N
25VV*NBE224											NA / A	N
25VV*NBE225											NA / A	N
25VV*NBE226			RB								NA / A	N
25VV*NBE227											NA / A	N
25VV*NBE228											NA / A	N
25VV*NBE229											NA / A	N
25VV*NBE230											NA / A	N

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	HETH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2SVV*NBE231	Sensor / TEC	C071W	RB	297	LM	Y	Y	NA	MF	>1000	NA / A	N
2SVV*NBE232				297							NA / A	N
2SVV*NBE233				297							NA / A	N
2SVV*NBE235				297							NA / A	N
2SVV*NBE236				297							NA / A	N
2SVV*NBE237				297							NA / A	N
2SVV*NBI220	Monitor / TEC		CB	288	CM		NA			NA	17 / A	N
2SVV*NBI221											17 / A	Y
2SVV*NBI222											17 / A	Y
2SVV*NBI223											17 / A	N
2SVV*NBI224											17 / A	N
2SVV*NBI225											17 / A	Y

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NSSS SUPPLIER: GENERAL ELECTRIC

DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2SVV* NBI226	Monitor / TEC	C071W	CB	289	CM	Y	NA	NA	MF	NA	17 A	Y
2SVV*NBI227				288							17 A	Y
2SVV*NBI228				288							17 A	Y
2SVV*NBI229				288							17 A	N
2SVV*NBI230				288							17 A	N
2SVV*NBI231				288							17 A	N
2SVV*NBI232				288							17 A	N
2SVV*NBI233				288							17 A	Y
2SVV*NBI234				288							17 A	Y
2SVV*NBI235				288							17 A	Y
2SVV*NBI236				288							17 A	Y
2SVV*NBI237				288							17 A	Y

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	ELEV	HTG	LOADS SEIS	HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	INST
2SVV*NBY220	Pre-amplifier / TEC	C071W	RB	240	DW	Y	Y	S	MF	NA	61 A	N
2SVV*NBY221											61 A	N
2SVV*NBY222											61 A	N
2SVV*NBY223											61 A	N
2SVV*NBY224											61 A	N
2SVV*NBY225											61 A	N
2SVV*NBY226											61 A	N
2SVV*NBY227											61 A	N
2SVV*NBY228											61 A	N
2SVV*NBY229											61 A	N
2SVV*NBY230											61 A	N
2SVV*NBY231											61 A	N

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DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2SVV*NBY232	Pre-amplifier / TEC	C071W	RB	240	DW	Y	Y	S	MF	NA	61 / A	N
2SVV*NBY233	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	61 / A	N
2SVV*NBY234	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	61 / A	N
2SVV*NBY235	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	61 / A	N
2SVV*NBY236	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	61 / A	N
2SVV*NBY237	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	61 / A	N

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SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL METH: ANLYS	TEST	NAT FREQ: LOWEST	RRS REF: STATUS: QUAL	INST
2CMS*EFV1A	EXCESS FLOW CHECK VALVES 3/4" DRAGON VALVES	C151C	RB	274	LM	Y	NA	NA	SF	>33	NA A	N
2CMS*EFV1B				275							NA A	N
2CMS*EFV3A				254							NA A	Y
2CMS*EFV3B				255							NA A	N
2CMS*EFV5A											NA A	Y
2CMS*EFV5B											NA A	Y
2CMS*EFV6A											NA A	Y
2CMS*EFV8A											NA A	Y
2CMS*EFV8B											NA A	Y

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	ELEV	HTG	LOADS SEIS	HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	INST
2CMS*EFV9A	EXCESS FLOW CHECK VALVES / 3/4" DRAGON VALVES	C/S/C	RB	192	LM	Y	NA	NA	SF	>33	NA / A	Y
2CMS*EFV9B				192							NA / A	Y
2CMS*EFV10				274							NA / A	N
2CSH*EFV 1	2"			215							NA / A	N
2CSH*EFV 2	2"			175							NA / A	N
2CSH* EFV 3	3/4"			240							NA / A	N
2CSL*EFV 11				250							NA / A	N
2CSL*EFV 31				289							NA / A	N
2DER*EFV31				240							NA / A	N

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL METH ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2IAS*EFV200	3/4" EXCESS FLOW CHECK VALVE / DRAGON VALVES, INC.	C151C	RB	271	LM	Y	NA	NA	SF	>33	NA / A	N
2IAS*EFV201											NA / A	N
2IAS*EFV202											NA / A	N
2IAS*EFV203											NA / A	N
2IAS*EFV204											NA / A	N
2IAS*EFV205											NA / A	N
2IAS*EFV206											NA / A	N

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SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	ELEV	HTG	LOADS SEIS	HYDR	QUAL METH ANLYS	TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	INST
2ICS*EFV1	EXCESS FLOW CHECK VALVES 3/4" DRAGON VALVES	C/5/C	RB	249	LM	Y	NA	NA	SF	>33	NA A	N
2ICS*EFV2				249							NA A	N
2ICS*EFV3				246							NA A	N
2ICS*EFV4				296							NA A	N
2ISC*EFV1				311							NA A	N
2ISC*EFV2				311							NA A	N
2ISC*EFV3				311							NA A	N
2ISC*EFV4				300							NA A	N
2ISC*EFV5				311							NA A	N
2IAS*EFV6				308							NA A	N

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UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL METH ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2ISC*EFV7	EXCESS FLOW CHECK VALVES 3/4" DRAGON VALVES	C151C	RB	300	LM	Y	NA	NA	SF	>33	NA A	N
2ISC*EFV 8				291							NA A	N
2ISC*EFV 9				254							NA A	N
2ISC*EFV10				291							NA A	N
2ISC*EFV11				268							NA A	N
2ISC*EFV12				256							NA A	N
2ISC*EFV13				270							NA A	N
2ISC*EFV14				243							NA A	N
2ISC*EFV15				291							NA A	N

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	MTG	LOADS: SEIS	HYDR	QUAL METH: ANLYS	TEST	NAT FREQ: LOWEST	RRS REF STATUS: QUAL	INST
2ISC*EFV16	EXCESS FLOW CHECK VALVES 3/4" DRAGON VALVES	C151C	RB	251	LM	Y	NA	NA	SF	>33	NA A	N
2ISC*EFV17				290							NA A	N
2ISC*EFV18				270							NA A	N
2ISC*EFV19				255							NA A	N
2ISC*EFV20				270							NA A	N
2ISC*EFV21				242							NA A	N
2ISC*EFV22				243							NA A	N
2ISC*EFV23				270							NA A	N
2ISC*EFV24				271							NA A	N
2ISC*EFV25				271							NA A	N

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL METH: ANLYS	TEST	NAT FREQ: LOWEST	RRS REF: QUAL	STATUS: INST
2ISC*EFV26	EXCESS FLOW CHECK VALVES 3/4" DRAGON VALVES	C15IC	RB	271	LM	Y	NA	NA	SF	>33	NA A	N
2ISC*EFV27				270							NA A	N
2ISC*EFV28				271							NA A	N
2ISC*EFV29				271							NA A	N
2ISC*EFV30				271							NA A	N
2ISC*EFV31				270							NA A	N
2ISC*EFV32				270							NA A	N
2ISC*EFV33				271							NA A	N
2ISC*EFV34				271							NA A	N
2ISC*EFV35				270							NA A	N

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UTILITY NIAGARA MOHAWK

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NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL ANLYS	HETH- TEST	NAT FREQ- LOWEST	RRS REF STATUS: QUAL	INST
2ISC*EFV36	EXCESS FLOW CHECK VALVES 3/4" DRAGON VALVES	C151C	RB	269	LM	Y	NA	NA	SF	>33	NA A	N
2ISC*EFV37				270							NA A	N
2ISC*EFV38				269							NA A	N
2ISCEFV39				268							NA A	N
2ISC*EFV40				271							NA A	N
2ISC*EFV41				268							NA A	N
2ISC*EFV42				268							NA A	N

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL METH ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2MSS*EFV1A	EXCESS FLOW CHECK VALVES 3/4" DRAGON VALVES	C151C	RB	240	LM	Y	NA	NA	SF	>33	NA A	N
2MSS*EFV1B											NA A	N
2MSS*EFV1C											NA A	N
2MSS*EFV1D											NA A	N
2MSS*EFV2A											NA A	N
2MSS*EFV2B											NA A	N
2MSS*EFV2C											NA A	N
2MSS*EFV2D											NA A	N
2MSS*EFV3A											NA A	N
2MSS*EFV3B											NA A	N

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL METH ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2MSS*EFV3C	EXCESS FLOW CHECK VALVES 3/4" DRAGON VALVES	C151C	RB	240	LM	Y	NA	NA	SF	>33	NA A	N
2MSS*EFV3D											NA A	N
2MSS*EFV4A											NA A	N
2MSS*EFV4B											NA A	N
2MSS*EFV4C											NA A	N
2MSS*EFV4D											NA A	N
2RCS*EFV43A				245							NA A	N
2RCS*EFV43B				243							NA A	N
2RCS*EFV44A				252							NA A	N
2RCS*EFV44B				250							NA A	N

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	ELEV	HTG	LOADS SEIS	HYDR	QUAL ANLYS	HETH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	INST
2RCS*EFV45A	EXCESS FLOW CHECK VALVES 3/4" DRAGON VALVES	C151C	RB	244	LM	Y	NA	NA	SF	>33	NA A	N
2RCS*EFV45B				243							NA A	N
2RCS*EFV46A				244							NA A	N
2RCS*EFV46B				243							NA A	N
2RCS*EFV47A				243							NA A	N
2RCS*EFV47B				245							NA A	N
2RCS*EFV48A				243							NA A	N
2RCS*EFV48B				245							NA A	N
2RCS*EFV52A				245							NA A	N
2RCS*EFV52B				243							NA A	N
2RCS*EFV53A				245							NA A	N
2RCS*EFV53B				245							NA A	N

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL METH ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2RCS*EFV62A	EXCESS FLOW CHECK VALVES 3/4" DRAGON VALVES	C151C	RB	245	LM	Y	NA	NA	SF	>33	NA A	N
2RCS*EFV62B				245							NA A	N
2RCS*EFV63A				243							NA A	N
2RCS*EFV63B				243							NA A	N
2RHS*EFV5				243							NA A	N
2RHS*EFV6				243							NA A	N

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL METH ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2RHS*EFV 7	EXCESS FLOW CHECK VALVES 3/4" DRAGON VALVES	C/S/C	RB	245	LM	Y	NA	NA	SF	>33	NA A	N
2SWP*EFV34A	EXCESS FLOWCHECK VALVES 1" DRAGON VALVES		SB	248							NA A	N
2SWP*EFV34B	1"		SB	254							NA A	N
2WCS *EFV221	3/4"		RB	245							NA A	N
2WCS*EFV222				245							NA A	N
2WCS*EFV223				244							NA A	N
2WCS*EFV224				244							NA A	N
2WCS*EFV300				244							NA A	N

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF: STATUS: QUAL	INST
2EJA*XD100A	30 KVA Transformer / Square D Company	E011T	ABN	240	DW	Y	NA	NA	MF	7	61 / A	Y
2EJA*XD101A			CB	261							16 / A	Y
2EJA*XD300B			ABS	240							61 / A	Y
2EJA*XD301B			CB	261							16 / A	Y
2LAC*XLE01				261							16 / A	Y
2LAC*XLE02				261							16 / A	Y
2LAC*XLE03				261							16 / A	Y
2LAC*XLE04				261							16 / A	Y
2LAC*XLE05				261							16 / A	Y
2LAC*XLE06				261							16 / A	Y
2LAC*XLE07				261							16 / A	Y
1SCM*XD101A				288							17 / A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2SCM*XD102A	30 KVA Transformer / Square D Company	E011T	CB	288	DW	Y	NA	NA	MF	7	17 / A	Y
2SCM*XD103A				288							17 / A	Y
2SCM*XD104A				288							17 / A	Y
2SCM*XD105A				288							17 / A	Y
2SCM*XD301B				288							17 / A	Y
2SCM*XD302B				288							17 / A	Y
2SCM*XD303B				288							17 / A	Y
2SCM*XD304B				288							17 / A	Y
2SCM*XD305B				288							17 / A	Y
2SCV*XD101A			ABN	240							61 / A	Y
2SCV*XD200P			CB	261							16 / A	Y
2SCV*XD301B			ABS	240							61 / A	Y

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SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL TEST	NAT FREQ LOWEST	RRS REF / STATUS QUAL	RRS REF / STATUS INST
2BYS*PNL201A	PANEL 125V DC / BROWN BOVERI ELECTRIC	E014T	CB	288	DW	Y	NA	NA	MF	17	17 / A	Y
2BYS*PNL201B											17 / A	Y
2BYS*PNL202A											17 / A	Y
2BYS*PNL202B											17 / A	Y
2BYS*PNL204A			DG	261							16 / A	Y
2BYS*PNL204B			DG	261							16 / A	Y
2EJA*PNL100A	HEATER PANEL 120V / BROWN BOVERI ELECTRIC		ABN	240							5 / A	Y
2EJA*PNL101A			CB	261							16 / A	Y
2EJA*PNL300B			ABS	240							5 / A	Y
2EJA*PNL301B			CB	261							16 / A	Y

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2EJS*PNL100A	EMERGENCY PANEL 600V / BROWN BOVERI ELECTRIC	E014T	CB.	261	DW	Y	NA	NA	MF	17	16 A	Y
2EJS*PNL101A			ABN	240							5 A	Y
2EJS*PNL102A			C.B.	261							16 A	Y
2EJS*PNL103A			ABN	240							5 A	Y
2EJS*PNL104A			ABN	240							5 A	Y
2EJS*PNL300B			CB	261							16 A	Y
2EJS*PNL301B			CB	261							16 A	Y
2EJS*PNL302B			ABS	240							5 A	Y
2EJS*PNL303B			ABS	240							5 A	Y
2EJS*PNL304B			ABS	240							5 A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL METH ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF	STATUS QUAL	STATUS INST
2LAC*PNL100A	EMERGENCY LIGHTING PANEL / BROWN BOVERI ELECTRIC	E014T	CB	261	DW	Y	NA	NA	MF	17	16	A	Y
2LAC*PNL300B			CB								16	A	Y
2LAC*PNLE01	LIGHTING PANEL / BROWN BOVERI ELECTRIC		CB								16	A	Y
2LAC*PNLE02			CB								16	A	Y
2LAC*PNLE03			CB1								16	A	N
2LAC*PNLE04			CB	288							17	A	N
2LAC*PNLE05			CB	288							17	A	Y
2LAC*PNLE06			CB	306							18	A	Y
2LAC*PNLE07			CB	306							18	A	N

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL METH ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2RPM*PNLA100	PANEL 120V / BROWN BOVERI ELECTRIC	E014T	CB	237	DW	Y	NA	NA	MF	17	15 A	Y
2RPM*PNLB100			CB	237	DW						15 A	Y
2SCM*PNL101A			CB	288	DW						17 A	Y
2SCM*PNL102A					DW						17 A	Y
2SCM*PNL103A					DW						17 A	Y
2SCM*PNL104A					DW						17 A	Y
2SCM*PNL105A					DW						17 A	Y
2SCM*PNL200P			CB	261	DW						A	N
2SCM*PNL301B			CB	288	DW						17 A	Y
2SCM*PNL302B			CB	288	DW						17 A	Y

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NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL METH ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF / STATUS QUAL	RRS REF / STATUS INST
2SCM*PNL303B	PANEL 12DV / BROWN BOVERI ELECTRIC	E014T	CB	288	DW	Y	NA	NA	MF	17	17 / A	Y
2SCM*PNL304B					DW						17 / A	Y
2SCM*PNL305B					DW						17 / A	Y
2SCV*PNL101A			ABN	240	DW						5 / A	Y
2SCV*PNL200P			CB	261	DW						16 / A	Y
2SCV*PNL301B			ABS	240	DW						5 / A	Y
2VBS*PNL101A			CB	288	DW						17 / A	Y
2VBS*PNL102A			CB	288	DW						17 / A	Y
2VBS*PNL301B			CB	288	DW						17 / A	Y
2VBS*PNL302B			CB	288	DW						17 / A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL METH ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF	STATUS QUAL	STATUS INST
2VBS*PNLA101	PANEL 120V / BROWN BOVERI ELECTRIC	E014T	CB	237	DW	Y	NA	NA	MF	17	15	A	Y
2VBS*PNLA103	PANEL RPS & NS4D / BROWN BOVERI ELECTRIC		CB	306							18	A	Y
2VBS*PNLA104	↓		CB	306							18	A	N
2VBS*PNLA105	PANEL MSLIV DIST. / BROWN BOVERI ELECTRIC		ABN	240							5	A	Y
2VBS*PNLA106	↓		ABS	240							5	A	Y
2VBS*PNLB101	PANEL BREAKER / BROWN BOVERI ELECTRIC		CB	237							15	A	Y
2VBS*PNLB103	PANEL / BROWN BOVERI ELECTRIC		CB	306							18	A	N
2VBS*PNLB104	↓		CB	306							18	A	Y
2VBS*PNLB105	PANEL MSLIV DIST. / BROWN BOVERI ELECTRIC		ABN	240							5	A	Y
2VBS*PNLB106	↓		ABS	240							5	A	Y
2VBS*PNLA110	PANEL / BROWN BOVERI ELECT.		CB	237							15	A	N
2VBS*PNLB110	↓		CB	237							15	A	N

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2ENS*SWG101	4160V Emer. Switchgear / General Electric	ED15F	CB	261	CF	Y	NA	NA	MF	NA	16 / B	Y
2ENS*SWG103	4160V Emer. Switchgear / General Electric	ED15F	CB	261	CF	Y	NA	NA	MF	NA	16 / B	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	MTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF STATUS: QUAL	INST
2BYS*SWG002A	125V- DC Switchgear / Brown-Boveri	E015N	CB	261	CF	Y	NA	NA	MF	NA	16 / A	Y
2BYS*SWG002B	↓	↓	↓	261	↓	↓	↓	↓	↓	NA	16 / A	Y
2EJS*US1	600V Emer. Switchgear / Brown-Boveri	↓	↓	261	↓	↓	↓	↓	↓	9	16 / A	Y
2EJS*US3	↓	↓	↓	261	↓	↓	↓	↓	↓	9	16 / A	Y
2EPS*SWG001	13.8 kV Emer. Switchgear / Brown-Boveri	↓	ABN	240	↓	↓	↓	↓	↓	NA	61 / A	Y
2EPS*SWG002	↓	↓	ABN	240	↓	↓	↓	↓	↓	NA	61 / A	Y
2EPS*SWG003	↓	↓	ABS	240	↓	↓	↓	↓	↓	NA	61 / A	Y
2EPS*SWG004	↓	↓	ABS	240	↓	↓	↓	↓	↓	NA	61 / A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2DMS*MCCA1	125V-DC MCC / Gould	E015Q	ABN	240	CF	Y	N	N	MF	7	61 / B	Y
2DMS*MCCB1	↓	↓	ABS	240	↓	↓	↓	↓	↓	↓	61 / B	Y
2EHS*MCC101	Standby MCC / Gould	↓	SB	261	↓	↓	↓	↓	↓	↓	6 / B	Y
2EHS*MCC102	↓	↓	ABN	240	↓	↓	↓	↓	↓	↓	61 / B	Y
2EHS*MCC103	↓	↓	CB	261	↓	↓	↓	↓	↓	↓	16 / B	Y
2EHS*MCC301	Emergency MCC / Gould	↓	SB	261	↓	↓	↓	↓	↓	↓	6 / B	N
2EHS*MCC302	↓	↓	ABS	240	↓	↓	↓	↓	↓	↓	61 / B	Y
2EHS*MCC303	↓	↓	CB	261	↓	↓	↓	↓	↓	↓	16 / B	Y

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MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF / STATUS QUAL	RRS REF / STATUS INST
2CES*Z01E	Electric Penetration / Conax	E021P	PC	250	DW	Y	Y	S	MF	89	36, 37 / A	Y
2CES*Z02E				244							36, 37 / A	Y
2CES*Z05E				250							36, 37 / A	Y
2CES*Z06E				244							36, 37 / A	Y
2CES*Z07E				250							36, 37 / A	Y
2CES*Z08E				244							36, 37 / A	Y
2CES*Z09E				250							36, 37 / A	Y
2CES*Z10E				244							36, 37 / A	Y
2CES*Z11E				250							36, 37 / A	Y
2CES*Z12E				244							36, 37 / A	Y
2CES*Z17E				250							36, 37 / A	Y
2CES*Z18E				244							36, 37 / A	Y

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UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV HTG	LOADS: SEIS	HYDR	QUAL METH: ANLYS	TEST	NAT FREQ: LOWEST	RRS REF: QUAL	STATUS: INST
2CES*Z19E	Electric Penetration / Conax	E021P	Pc	250	DW	Y	Y	S	MF	89	36, 37 / A / Y
2CES*Z20E				244							36, 37 / A / Y
2CES*Z21E				250							36, 37 / A / Y
2CES*Z22E				244							36, 37 / A / Y
2CES*Z23E				250							36, 37 / A / Y
2CES*Z24E				244							36, 37 / A / Y
2CES*Z25E				250							36, 37 / A / Y
2CES*Z26E				244							36, 37 / A / Y
2CES*Z29E				250							36, 37 / A / Y
2CES*Z30E				244							36, 37 / A / Y
2CES*Z51E				244							36, 37 / A / Y
2CES*Z52E				250							36, 37 / A / Y

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SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL TEST	NAT FREQ LOWEST	RRS REF	STATUS QUAL	STATUS INST
2CES*Z53E	Electric Penetration / Conax	E021P	PC	271	DW	Y	Y	S	MF	89	35	A	Y
2CES*Z54E				253							36, 37	A	Y
2CES*Z57E				220							38	A	Y
2CES*Z58E				220							38	A	Y
2CES*Z59E				220							38	A	Y

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MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF: QUAL	STATUS: INST
2CES*1PNL406	DG-1 Control Panel / Cooper	E031A	DG	261	CF	Y	NA	NA	MF	NA	16 / A	Y
2CES*1PNL407	DG-1 Control Panel / Cooper		DG	261							16 / A	Y
2CES*1PNL408	DG-3 Control Panel / Trane		DG	261							16 / A	Y
2CES*1PNL412	DG-3 Control Panel / Trane		DG	261							16 / A	Y
2EGA*M1A	DG-1 Air Comp. Motor / Cooper		DG	261				S	NA	>33	16 / A	Y
2EGA*M1B	DG-3 Air Comp. Motor / Cooper		DG	261							16 / A	Y
2EGA*M2A	DG-1 Air Comp. Motor / Cooper		DG	261							16 / A	Y
2EGA*M2B	DG-3 Air Comp. Motor / Cooper		DG	261							16 / A	Y
2EGS*EG1	Diesel Generator 1 / Cooper		DG	272	CF	Y	NA	S	MF	>33	17 / A	Y
2EGS*EG3	Diesel Generator 2 / Cooper		DG	272	CF	Y	NA	S	MF	>33	17 / A	Y
2EGS*PNL11	HV Gen Control / Cooper		DG	261	CF	Y	NA	NA	NA	NA	16 / A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2EGS*PNL31	HV Gen. Control / Cooper	E031A	DG	261	CF	Y	NA	NA	MF	NA	16 A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2BYS*BAT2A	125V Storage Battery / Gould	E033A	CB	261	CF	Y	NA	S	MF	>33	16 / A	Y
2BYS*BAT2B	125V Storage Battery / Gould	E033A	CB	261	CF	Y	NA	S	MF	>33	16 / A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2BYS*CHGR2A1	Battery Charger / Power Conversion Prod.	E034A	CB	261	CF	Y	NA	NA	MF	16	16 A	Y
2BYS*CHGR2A2	↓	↓	↓	261	↓	↓	↓	↓	↓	16	16 A	Y
2BYS*CHRG2B1	↓	↓	↓	261	↓	↓	↓	↓	↓	16	16 A	Y
2BYS*CHRG2B2	↓	↓	↓	261	↓	↓	↓	↓	↓	16	16 A	Y
2BYS*CHRG2C1	↓	↓	↓	261	↓	↓	↓	↓	↓	12	16 A	Y
2BYS*CHRG2C2	↓	↓	↓	261	↓	↓	↓	↓	↓	12	16 A	Y

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NSSS SUPPLIER: GENERAL ELECTRIC

DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF: QUAL	STATUS: INST
2VBA*UPS2A	Uninterruptible Power Supply / Exide Power	E035A	CB	261	CF	Y	NA	NA	MF	7	16 / B	Y
2VBA*UPS2B	↓	↓	CB	261	↓	Y	NA	NA	MF	7	16 / B	Y
2VBB*UPS3A	↓	↓	NS	237	↓	Y	NA	NA	MF	7	5 / B	Y
2VBB*UPS3B	↓	↓	NS	237	↓	Y	NA	NA	MF	7	5 / B	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HTS*PNL001	HEAT TRACING CONT. PANEL / THERMON MFG Co.	E092B	ABN	240	CF	Y	N	NA	NF	7.5	61 A	N
2HTS*PNL003	↓	E092B	ABS	240	CF	Y	N	NA	NF	7.5	61 A	Y

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UTILITY NIAGARA MOHAWK

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	LOCATION: ELEV	LOCATION: HTG	LOADS: SEIS	LOADS: HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF: STATUS: QUAL	RRS REF: STATUS: INST
2SWP*H1	BAR RACK HEATER / CHROMALOX/EMERSON	H110B	ITK	234	DM	Y	NA	S	NA	10	5 A	Y

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UTILITY NIAGARA MOHAWK

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NSSS SUPPLIER: GENERAL ELECTRIC

DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF STATUS: QUAL	INST
2SWP*MOV30A	Motor Operated Rot. Gates / Henry Pratt Co.	P121A	ITK	285	DW	Y	NA	S	SF	>33	7 / A	Y
2SWP*MOV30B	↓	↓	ITK	285	↓	↓	↓	↓	↓	>33	7 / A	Y
2SWP*MOV77A	↓	↓	ITK	285	↓	↓	↓	↓	↓	>33	7 / A	Y
2SWP*MOV77B	↓	↓	ITK	285	↓	↓	↓	↓	↓	>33	7 / A	Y

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ENGINEER: STONE & WEBSTER
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DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	NTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF / STATUS: QUAL	INST
2SFC*EIA	Spent Fuel Pool Ht Exchgr / American Std	P221X	RB	215	CF	Y	NA	S	N	34	62 / A	N
2SFC*EIB	↓		RB	215	CF	Y	NA	S	N	34	62 / A	N

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DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL ANLYS	HETH- TEST	NAT FREQ- LOWEST	RRS REF: STATUS: QUAL	INST
2SWP*P1A	Service Water Pump / Gould	P222X	S.W	224	CF	Y	NA	S	NA	34	5 / B	Y
P1B				224							5 / B	Y
P1C				224							5 / B	Y
P1D				224							5 / B	Y
P1E				224							5 / B	Y
P1F				224							5 / B	Y
2SWP*M1A	Service Water Pump Motor / Gould			225						55	5 / A	Y
1B				225							5 / A	Y
1C				225							5 / A	Y
1D				225							5 / A	Y
1E				225							5 / A	Y
1F				225							5 / A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION NTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	HETH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2SFC*P1A	Fuel Pool CWC Pump / Gould	P222X	RB	290	CF	Y	NA	S	NA	45	59 / A	Y
P1B	↓	↓	↓	290	↓	↓	↓	↓	↓	45	59 / A	Y
2SFC*M1A	Fuel Pool CWC Pump Motor / Gould	↓	↓	290	↓	↓	↓	↓	↓	67	59 / A	N
M1B	↓	↓	↓	290	↓	↓	↓	↓	↓	67	59 / A	N
2HVK*P1A	Chilled Wtr Pump / Gould	↓	CB	261	↓	↓	↓	↓	↓	59	16 / A	Y
P1B	↓	↓	↓	261	↓	↓	↓	↓	↓	59	16 / A	Y
2HVK*M1A	Chilled Wtr Pump Motor / Gould	↓	↓	261	↓	↓	↓	↓	↓	140	16 / A	Y
M1B	↓	↓	↓	261	↓	↓	↓	↓	↓	140	16 / A	Y
2SWP*P2A	↓	↓	↓	261	↓	↓	↓	↓	↓	48	16 / A	Y
P2B	↓	↓	↓	261	↓	↓	↓	↓	↓	48	16 / A	Y
2SWP*M2A	Condensing Wtr Pump Motor / Gould	↓	↓	261	↓	↓	↓	↓	↓	140	16 / A	Y
*M2B	↓	↓	↓	261	↓	↓	↓	↓	↓	140	16 / A	Y

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DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	MTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF: STATUS: QUAL	INST
2ICS*P2	ICS Pressure Pump / Gould	P222X	RB	175	CF	Y	NA	S	NA	49	64 / A	Y
2RHS*P2	RHS Pressure Pump / Gould		ABS	175						49	64 / A	Y
2CSL*P2	CSL Pressure Pump / Gould		ABN	175						49	64 / A	Y
2CSH*P2	CSH Pressure Pump / Gould		RB	176						49	64 / A	Y
2 ICS*M2	ICS Press. Pump Motor / Gould		RB	175						151	64 / A	Y
2 RHS*M2	RHS Press. Pump Motor / Gould		ABS	175						151	64 / A	Y
2CSL*M2	CSL Press Pump Motor / Gould		ABN	175						151	64 / A	Y
2CSH*M2	CSH Press Pump Motor / Gould		RB	175						151	64 / A	Y

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EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF: QUAL	STATUS: INST
2EGF*P1A	Fuel Oil Transfer Pump / Crane Deming	P225E	DG	261	CF	Y	NA	S	NA	6	16 / A	Y
*P1B	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	16 / A	Y
*P1C	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	16 / A	Y
*P1D	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	16 / A	Y
*P2A	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	16 / A	Y
*P2B	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	16 / A	Y

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EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	MTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS: QUAL	INST
2GTS*CH1A	Filter Trane A Heater / MINE SAFETY APPL.	P243U	SG	261	EM	Y	NA				3 / D	N
1B	Filter Trane B Heater / MINE SAFETY APPL.		SG	261	EM						3 / D	N
2GTS*FLT1A	Stdby Gas Treat Flt Train / Mine Safety Appl		SG	261	CF			S	NA	NA	3 / A	Y
1B	↓		SG	261	CF			S	NA	NA	3 / A	Y
2GTS*PDIT21A	DIFF. PRESS. INDICATOR / MINE SAFETY APPL		SG	261	EM			NA	MF	>40	3 / A	Y
21B	↓		SG	261	EM				MF	>40	3 / A	Y
2GTS*TEX26A	RTD (INLET) / MINE SAFETY APPL.		SG	261	EM				SF	24	3 / A	Y
26B	RTD (INLET) / MINE SAFETY APPL.		SG	261	EM				SF	24	3 / A	Y
2GTS*TEY26A	RTD (OUTLET) / MINE SAFETY APPL.		SG	261	EM				SF	24	3 / A	Y
26B	RTD (OUTLET) / MINE SAFETY APPL.		SG	261	EM				SF	24	3 / A	Y
2GTS*TIS9A	TEMP. IND. SWITCH / MINE SAFETY APPL.		SG	261					MF	NA	3 / A	Y
9B	TEMP. IND. SWITCH / MINE SAFETY APPL.	↓	SG	261		↓	↓	↓	MF	NA	3 / A	Y

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EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF STATUS: QUAL	INST
2GTS*T1523A	TEMP. IND. SWITCH / Mine Safety Appl	P243U	SG	265	CM	Y	NA	NA	MF	NA	3 / A	Y
23B	↓		SG	265	CM			NA	MF	NA	3 / A	Y
2GTS*XDIA	TRANSFORMER / MSA		SG	261	EM			NA	MF	7	3 / A	N
1B	↓		SG	261	EM			NA	MF	7	3 / A	N
2HVC*CH7A	HEATER / MSA		CB								D	Y
7B	HEATER / MSA		CB								D	Y
2HVC*FLT1A	ODOR REMOVAL FILTER / MSA		CB	288	CF			S	NA	22	17 / A	N
1B	↓		CB	306				S	NA	22	18 / A	N
2HVC*FLT2A	CONT. RM EMER. FILTER / MSA		CB	292				S	NA	27	18 / A	N
2B	↓		CB	310				S	NA	27	19 / A	N
2HVC*FLT3A	CONT. BLDG VENT. / MSA		CB	279				S	NA	39	17 / A	Y
3B	↓		CB	279				S	NA	39	17 / A	Y

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EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH-TEST	NAT FREQ-LOWEST	RRS REF: QUAL	STATUS: INST
2HVC*PDT50A	PRESS. DIFF. TRANSMITTER / Mine Safety Appl	P243U	CB	277	EM	Y	NA	NA	MF	20	17 A	Y
50B			CB	306	EM					20	18 A	Y
2HVC*TE41A	RTD / MSA		CB	289						24	17 A	Y
41B			CB	306						24	18 A	Y
2HVC*TE42A			CB	289						24	17 A	Y
42B			CB	306						24	18 A	Y
2HVC*TIS20A	TEMP. IND. SWITCH / MSA		CB	277						NA	17 A	Y
20B			CB	288						NA	17 A	Y
2HVC*TIS6AA			CB	288						NA	17 A	Y
6AB			CB	305						NA	18 A	Y
2HVC*XD2A	TRANSFORMER / MSA		CB	288	CF					7	17 A	Y
2B			CB	306	CF					7	18 A	Y1

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SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2GTS*FS25A	HEATER / MSA	P243U				Y	NA				D	N
25B											D	N
2GTS*TS24A											D	N
24B											D	N
2GTS*PNL30A	HEATER PANEL / MSA										D	N
30B	HEATER PANEL / MSA										D	N
2HVC*FS15A	FLOW SWITCH / MSA										D	N
15B	FLOW SWITCH / MSA										D	N
2HVC*TS43A	TEMP. SWITCH / MSA										D	N
TS43B	TEMP. SWITCH / MSA										D	N

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2MHR*CRN1	Polar Crane / Whitting Corp.	P251P	RB	353	DW	Y	NA	D	NA	1.4	57 / A	N

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	ELEV	HTG	LOADS SEIS	HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	INST
2CMS*REX10A	Radn Element Cntrlt / Kaman	P281F	RB	289	EM	Y	NA	NA	MF	NA	59 C	N
10B				289							59 C	N
2CMS*REY10A				289							59 C	N
10B				289	EM					NA	59 C	N
2CMS*RUW10A	Local Microcomputor / Kaman		ETN	215	RM						1 C	N
10B			ETS	215	RM						20 C	N
2CMS*RUZ 10A	Control Rm Microprocessor / Kaman		CB	306	EM					NA	18 C	N
10B				306							18 C	N
2HVC*RE18A	Radn Element Cont Rm / Kaman			306						NA	18 B	N
18B				306							18 B	N
18C				306							18 B	N
18D				306							18 B	N

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EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	LOCATION: ELEV	LOCATION: HTG	LOADS: SEIS	LOADS: HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF STATUS: QUAL	RRS REF STATUS: INST
2 HVC*RR 18A	Radn Recorder, PEN Cont. Rm / Kaman	P281F	CB	306	EM	Y	NA	NA	MF	NA	18 B	N
18B				306							18 B	N
18C				306							18 B	N
18D				306							18 B	N
2HVC*RUW18A	Local Microconputor / Kaman			306						19	18 B	N
18B				306						19	18 B	N
18C				306						19	18 B	N
18D				306						19	18 B	N
2HVC*RUZ 18A	Control Rm Microprocessor / Kaman			306						>100	18 A	N
18B				306							18 A	N
18C				306							18 A	N
18D				306							18 A	N

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2HVR*REX14A	Radn Element - Abv Refuel / Kaman	P281F	RB	328	EM	Y	NA	NA	MF	NA	58 / B	N
14B	↓		↓	328	↓	↓	↓	↓	↓	↓	58 / B	N
2HVR*REX32A	Radn Element - Blw Refuel / Kaman			289							59 / B	N
32B	↓			289							59 / B	N
2HVR*REX14A	Radn Element - Abv Refuel / Kaman			328							58 / B	N
2HVR*REX32A	Radn Element - Below Refuel / Kaman		↓	289	↓	↓	↓	↓	↓	↓	58 / B	N
2HVR*RRX14A	Radn Recorder PEN - Abv Refuel / Kaman		CB	306	EM	Y	NA	NA	MF	NA	18 / B	N
14B	↓	↓	CB	306	EM	Y	NA	NA	MF	NA	18 / B	N

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2HVR*RRX32A	Radn Recorder PEN - Blw Refuel / Kaman	P281F	CB	306	EM	Y	NA	NA	MF	NA	19 / B	N
32B	↓	↑	↓	306	↓	↓	↓	↓	↓	↓	18 / B	N
2HVR*RRY14A	Radn Recorder PEN / Kaman	↓	↓	306	↓	↓	↓	↓	↓	↓	18 / B	N
2HVR*RRY32A	↓	↓	↓	306	↓	↓	↓	↓	↓	↓	18 / B	N
2HVR*RUW14A	Local Microcomputer / Kaman	↓	ETN	215	RM	↓	↓	↓	↓	19	1 / B	N
14B	↓	↓	ETS	215	↓	↓	↓	↓	↓	19	20 / B	N
2HVR*RUW32A	↓	↓	ETN	215	↓	↓	↓	↓	↓	19	1 / B	N
32B	↓	↓	ETS	215	↓	↓	↓	↓	↓	19	20 / B	N
2HVR*RUZ14A	Control Rm Microprocessor / Kaman	↓	CB	306	EM	↓	↓	↓	↓	>100	18 / A	N
14B	↓	↓	↓	306	↓	↓	↓	↓	↓	↓	18 / A	N
32A	↓	↓	↓	306	↓	↓	↓	↓	↓	↓	18 / A	N
32B	↓	↓	↓	306	↓	↓	↓	↓	↓	↓	18 / A	N

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2RMS*RE1A	Radn Element - DW Hatch / Kaman	P281F	PC	261	RM	Y	Y	NA	MF		35,36 / C	N
1B	↓	↓	PC	261	RM	↓	Y	↓	↓		35,36 / C	N
2RMS*RR1A	Radn Recorder - DW Hatch / Kaman	↓	CB	306	EM	↓	NA	↓	↓	NA	16 / C	N
1B	↓	↓	CB	306	EM	↓	↓	↓	↓	NA	16 / C	N
2RMS*RUW1A	Local Microcomputer / Kaman	↓	ETN	215	RM	↓	↓	↓	↓	19	1 / B	N
1B	↓	↓	ETS	215	RM	↓	↓	↓	↓	19	20 / B	N
2RMS*RU21A	Control Rm Microprocessor / Kaman	↓	CB	306	EM	↓	↓	↓	↓	19	16 / A	N
1B	↓	↓	CB	306	↓	↓	↓	↓	↓	>100	16 / A	N
2SWP*RE23A	Rad Element - RHR Ht Exch / Kaman	↓	ETN	215	↓	↓	↓	↓	↓	>100	1 / B	N
23B	↓	↓	ETS	215	↓	↓	↓	↓	↓	NA	20 / B	N
2SWP*RE146A	Rad Element - to Lake / Kaman	↓	SB	245	↓	↓	↓	↓	↓	NA	5 / B	N
146B	↓	↓	SB	245	↓	↓	↓	↓	↓	NA	5 / B	N

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	ELEV	MTG	LOADS SEIS	HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	INST
2SWP*RR23A	Radn Recorder Pen / Kaman	P281F	CB	306	EM	Y	NA	NA	MF	NA	18 / B	N
23B			CB	306						NA	18 / B	N
2SWP*RR146A			CB	306						NA	18 / B	N
146B			CB	306						NA	18 / B	N
2SWP*RUW23A	Local Microcompressor / Kaman		ETN	215						19	1 / B	N
23B			ETS	215						19	20 / B	N
2SWP*RUW146A			SB	245						19	5 / B	N
146B			SB	245						19	5 / B	N
2SWP*RUZ23A	Control Rm Microprocessor / Kaman		CB	306						>100	18 / A	N
23B				306						>100	18 / A	N
2SWP*RUZ146A				306						>100	18 / A	N
146B				306						>100	18 / A	N

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	MTG	LOADS: SEIS	HYDR	QUAL METH: ANLYS	TEST	NAT FREQ: LOWEST	RRS REF: STATUS: QUAL	INST
2CEC*PNL880A	CONTROL ROOM PANEL / KAMAN	P281F	CB	306	CF	Y	NA	D	NA	27	18 B	N
880B											18 B	N
880C											18 B	N
880D											18 B	N
2CMS*CAB10A	PARTIC./ GAS MONITOR / KAMAN		RB	289	CF	Y	NA				59 C	N
10B							NA				59 C	N
2HVC*CAB18A	GAS MONITOR / KAMAN		CB	306	CF	Y	NA	S	MF	13.25	18 B	N
18B											18 B	N
18C											18 B	N
18D											18 B	N

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SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL METH: ANLYS	TEST	NAT FREQ: LOWEST	RRS REF: STATUS: QUAL	INST
2HVC*SMPT18A	ISO-KINETIC NOZZLE / KAMAN	P281F	CB	299	LM	Y	NA	S	NA	592	18 B	N
18B										592	18 B	N
18C										469	18 B	N
18D										592	18 B	N
2HVR*CAB 14A	PARTIC./GAS MONITOR / KAMAN		RB	329	CF	Y	NA	S	MF	13.25	58 B	N
14B				329							58 B	N
32A				289							59 B	N
32B				289							59 B	N
2RMS*RAW1A	REMOTE INDICATOR / KAMAN		ETN	215	RM	Y	NA				1 C	N
1B			ETS								20 C	N
1C			ETN								1 C	N
1D			ETS								20 C	N

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JOB NAME NMP- UNIT 2
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SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL METH: ANLYS	TEST	NAT FREQ: LOWEST	RRS REF / STATUS: QUAL	INST
2RMS*RE1C	ION CHAMBER DETECTOR / KAMAN	P281F	PC	261	RM	Y	Y	NA	MF		35 B	N
1D	↓	↓	↓	↓	↓	↓	↓	↓	↓		35 B	N
2RMS*RUW1C	MICROCOMPUTOR / KAMAN		ETN	215	↓	↓	↓	↓	↓	19	1 B	N
1D	↓		ETS	↓	↓	↓	↓	↓	↓	↓	20 B	N
2SWP*CAB23A	LIQUID MONITOR / KAMAN		ETN	215	CF	Y	NA	NA	MF	34	1 B	N
23B	↓		ETS	↓	↓	↓	↓	↓	↓	↓	20 B	N
146A	↓		SB	250	↓	↓	↓	↓	↓	↓	5 B	N
146B	↓	↓	SB	↓	↓	↓	↓	↓	↓	↓	5 B	N
2RMS*RUZ1C	CONTROL RM MICROPROCESSOR / KAMAN	↓	CB	306	EM	Y	NA	NA	MF	>100	16 A	N
1D	↓	↓	CB	306	EM	Y	NA	NA	MF	>100	16 A	N

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SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & HEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF / STATUS: QUAL	INST
2CMS*RIC10A	LOCAL INDICATOR PANEL / KAMAN	P281F	ETN	215	RM	Y	NA	NA	MF		1 / C	N
10B			ETS								20 / C	N
2HVR*RIC14A			ETN							NA	1 / A	N
14B			ETS							NA	20 / A	N
32A			ETN							NA	1 / A	N
32B			ETS							NA	20 / A	N
2HVR*SMPT14A	ISO-KINETIC NOZZLE / KAMAN		RB	328	LM	Y	NA	S	NA	103	58 / B	N
14B			RB	328						103	58 / B	N
32A			RB	289						49	59 / B	N
32B			RB	289						49	59 / B	N

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UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HCS*IPNL22A	H2 Recomb Pwr Cab / Rockwell	P282K	RB	240	CF	Y	NA	NA	MF		61 / C	N
2HCS*IPNL22B	H2 Recomb Pwr Cab. / Rockwell	↓	RB	240	↓	↓	↓	NA	MF		61 / C	N
2HCS*RBNR1A	Hydrogen Recomb 1A / Rockwell	↓	RB	240	↓	↓	↓	S	MF		61 / C	Y.
2HCS*RBNR1B	Hydrogen Recomb 1B / Rockwell	↓	RB	240	↓	↓	↓	S	MF		61 / C	Y.

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JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF STATUS: QUAL	INST
2MSS*HYV6A	24" 900# Ball Valve / Fluid Systems	P303D	PC	252	LM	Y	Y	U	MF	52	B	N
6B			PC	252							B	N
6C			PC	252							B	N
6D			PC	252							B	N
2MSS*HYV7A			MST	251							B	N
7B			MST	251							B	N
7C			MST	251							B	N
7D			MST	251							B	N
2MSS*IPNL90A	Relay Logic Cabinet / Fluid Systems		ABS	240	CF			NA		NA	61 / A	Y
90B			ABS	240							61 / A	Y
90C			ABS	240							61 / A	Y
90D			ABS	240							61 / A	Y

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SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

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NSSS SUPPLIER: GENERAL ELECTRIC

DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2MSS*1PNL91A	Relay Logic Cabinet / Fluid Systems	P303D	ABS	240	CF	Y	NA	NA	MF	NA	61 A	Y
91B			ABS	240							61 A	Y
91C			ABN	240							61 A	Y.
91D			ABN	240							61 A	Y.

REPORT DATE

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SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
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NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	MTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF STATUS: QUAL	INST
2ISC*RV33A	Vacuum Relief Valve / GPE Controls	P303R	PC	240	LM	Y	Y	S	NA	>1000	37, 48 / A	N
33B											37, 48 / A	N
34A											37, 48 / A	N
34B											37, 48 / A	N
35A											37, 48 / A	N
35B											37, 48 / A	N
36A											37, 48 / A	N
36B											37, 48 / A	N

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SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2TME*AOV121	4"-900# Gate Valve / Anchor Darling	P303V	TB	294	LM	Y	N	S	NA	83	NA / B	N
2MSS*AOV92A	16"-900#. Gate Valve / Anchor Darling	↓	TB	290	↓	↓	↓	↓	↓	63	NA / B	Y
2MSS*AOV92B	↓	↓	TB	296	↓	↓	↓	↓	↓	63	NA / B	Y

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UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	MTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF STATUS: QUAL	INST
2CSH*AOV108	12" 900# Check Valve / Anchor-Darling	P303W	PC	308	LM	Y	Y	S	SF	46	NA / C	N
2CSL*AOV101	12" 900# Check Valve / Anchor-Darling	P303W	PC	308			Y			46	NA / C	Y
2FWS*AOV23A	24" 900# Check Valve / Anchor Darling		RB	261			Y			36	NA / C	Y
2FWS*AOV23B	↓		MST	257			Y			36	NA / C	Y
2ICS*AOV156	6" 900# Check Valve / Anchor Darling		RB	291			Y			36	NA / C	N
2ICS*AOV157	↓		PC	343			Y			36	NA / C	N
2RHS*AOV16A	12" 900# Check Valve / Anchor Darling		PC	316			Y			46	NA / C	Y
16B			PC	293			Y			46	NA / C	Y
16C			PC	316			Y			46.	NA / C	Y
2RHS*AOV39A			PC	255			Y			46	NA / C	Y
39B	↓	↓	PC	255	↓	↓	Y	↓	↓	46	NA / C	Y

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JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION NTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2RHS*ADV150	16" 300# Check Valve / Anchor-Darling	P303W	ABS	191	LM	Y	N	S	SF	36	NA / A	Y

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UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	HETH- TEST	NAT FREQ- LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
25WP*MOV1A	4" 150# Ball Valve / Contromatics	P304A	SB	264	LM	Y	N	S	MF	>33	NA / B	Y
1B				264							NA / B	Y
1C				264							NA / B	Y
1D				264							NA / B	Y
1E				257							NA / B	Y
1F				257							NA / B	Y

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JOB NAME NMP- UNIT 2
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SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH-TEST	NAT FREQ-LOWEST	RRS REF STATUS: QUAL	INST
2CPS*AOV 104	14"-150# / Posi Seal	P304D	RB	294	LM	Y	Y	S	SF	85	NA / C	N
2CPS*AOV 105	12"-150# / Posi Seal		RB	220						178	NA / C	Y
2CPS*AOV 106	14"-150# / Posi Seal		PC	294						85	NA / C	Y
2CPS*AOV 107	12"-150# / Posi Seal		PC	220						62	NA / C	N
2CPS*AOV 108	14"-150# / Posi Seal		PC	300						85	NA / C	N
2CPS*AOV 109	12"-150# / Posi Seal		PC	218						62	NA / C	N
2CPS*AOV 110	14"-150# / Posi Seal		RB	294						85	NA / C	Y
2CPS*AOV 111	12"-150# / Posi Seal		RB	221						78	NA / C	Y
2GTS*AOV 101	20"-150# / Posi Seal		RB	319		Y	N			96	NA / B	N
2HVC*MOV 1A	18"-150# W/SMB-000-2/HIBC / Posi Seal		CB	298		Y	N	S	SF	68	NA / A	N
2HVC*MOV 1B	18"-150# W/SMB-000-2/HIBC / Posi Seal		CB	298		Y	N	S	SF	68	NA / A	N
2SFC*AOV 19A	8"-300# / Posi Seal		RB	336		Y	N	S	SF	59	NA / A	Y

JOB NAME NMP- UNIT 2
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SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	EQUIPMENT: SPEC NO.	LOCATION: BLDG	LOCATION: ELEV	LOCATION: MTG	LOADS: SEIS	LOADS: HYDR	QUAL ANLYS	QUAL METH: TEST	NAT FREQ: LOWEST	RRS REF: STATUS: QUAL	RRS REF: STATUS: INST
2SFC*AOV19B	8"-300# / Posi Seal	P304D	RB	310	LM	Y	N	S	SF	59	NA / A	Y
2SFC*AOV33A	4"-150# / Posi Seal		RB	351				S	SF	44	NA / A	Y
2SFC*AOV33B	4"-150# / Posi Seal		RB	351				S	SF	44	NA / A	Y
2SFC*AOV153	8"-300# / Posi Seal		RB	298				S	SF	59	NA / A	Y
2SFC*AOV154	8"-300# / Posi Seal		RB	298				S	SF	59	NA / A	Y
2SFC*HV6A	10"-150# / Posi Seal		RB	300				S	SF	39	NA / A	Y
2SFC*HV6B	10"-150# / Posi Seal		RB	300						39	NA / A	Y
2SFC*HV17A	8"-300# / Posi Seal		RB	300						59	NA / A	Y
2SFC*HV17B	8"-300# / Posi Seal		RB	298						59	NA / A	N
2SFC*HV18A	8"-300# / Posi Seal		RB	298						59	NA / A	Y
2SFC*HV18B	8"-300# / Posi Seal		RB	298						59	NA / A	Y
2SFC*HV35A	10"-150# / Posi Seal		RB	345		Y	N	S		66	NA / A	Y

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UTILITY NIAGARA MOHAWK

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	MTG	LOADS: SEIS	HYDR	QUAL METH: ANLYS	TEST	NAT FREQ: LOWEST	RRS REF STATUS: QUAL	INST
2SFC*HV35B	10"-150# / Posi Seal	P304D	RB	345	LM	Y	N	S	SF	66	NA / A	Y
2SFC*HV37A	8"-300# / Posi Seal		RB	232						59	NA / A	Y
2SFC*HV37B	8"-300# / Posi Seal		RB	232						59	NA / A	Y
2SFC*HV54A	10"-150# / Posi Seal		RB	330						66	NA / A	Y
2SFC*HV54B	10"-150# / Posi Seal		RB	331						66	NA / A	Y
2SFC*HV115	4"-150# / Posi Seal		RB	345						44	NA / A	Y
2SFC*HV116	4"-150# / Posi Seal		RB	350						44	NA / A	Y
2SFC*HV121	4"-150# / Posi Seal		RB	352						44	NA / A	Y

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF STATUS: QUAL	INST
2RHS*MOV9A	18"-300# W/SMB-00-10/H3BC POSI SEAL	P304D	ABN	201	LM	Y	N	S	SF	58	NA B	Y
2RHS*MOV9B	18"-300# W/SMB-00-10/H3BC POSI SEAL		ABS	201		Y	N	S	SF	58	NA B	Y
2RHS*MOV12A	18"-300# W/SMB-00-10/H3BC POSI SEAL		ABN	181		Y	N	S	SF	58	NA B	Y
2RHS*MOV12B	18"-300# W/SMB-00-10/H3BC POSI SEAL	P304D	ABS	177		Y	N	S	SF	58	NA B	N

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2CCP*AOV37A	1½" 150# Plug Valve / Xomox	P304K	ABN	183	LM	Y	NA	S	MF	32	NA / B	Y
37B	2" 150# PLUG VALVE / XOMOS		ABS	177							NA / B	Y
2CCP*AOV38A	1½" 150# Plug Valve / Xomox		ABN	183							NA / B	Y
38B	2" 150# PLUG VALVE / XOMOS		ABS	177							NA / B	Y
2SFC*HV114	2½" 150# Plug Valve / Xomox		RB	321							NA / C	Y
2SFC*HV148			RB	320							NA / C	Y
2SFC*HV149			RB	320							NA / C	Y
2SWP*AOV20A	1½" 150# Plug Valve / Xomox		ABN	183							NA / B	Y
20B	2" 150# Plug Valve / Xomox		ABS	179							NA / B	N
2SWP*AOV581	1½" 150# PLUG VALVE / XOMOS		CB	275	LM	Y	NA				NA / B	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	ELEV	HTG	LOADS SEIS	HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	INST
25WP*AOV22A	1½" 150# Plug Valve / Xomox	P304K	ABN	186	LM	Y	NA	S	MF	32	NA / B	Y
22B	2" 150# Plug Valve / Xomox		ABS	179						32	NA / B	Y
25WP*AOV78A	2" 150# Plug Valve / Xomox		CB.	277						32	NA / B	Y
78B	↓		CB	277						32	NA / B	Y
25WP*AOV97A	6" 150# Plug Valve / Xomox		RB	292							NA / C	Y
97B	↓		RB	291							NA / C	Y
25WP*AOV154A	1½" 150# Plug Valve / Xomox		CB	277						32	NA / B	Y
154B	↓		CB	277						32	NA / B	Y
25WP*AOV571	1½" 150# Plug Valve / Xomox		ASB	238						32	NA / B	Y
25WP*AOV572	2½" 150# Plug Valve / Xomox		ASB	238							NA / C	Y
25WP*AOV573	2" 150# Plug Valve / Xomox		CB	238						32	NA / B	Y
25WP*AOV574	2" 150# Plug Valve / Xomox	↓	CB.	238	↓	↓	↓	↓	↓	32	NA / B	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2CCP*MOV14A	12"-150# Gate Valve / Velan	P304R	RB	217	LM	Y	NA	S	SF	97	NA / A	Y
" 14B				217				S		97	NA / A	Y
2CCP*MOV15A				263			Y	S		82	NA / A	Y
" 15B				262				S		82	NA / A	Y
2CCP*MOV16A			PC	263				S		82	NA / A	Y
" 16B			PC	262				S		82	NA / A	Y
2CCP*MOV17A	Velan		RB	263				S		82	NA / A	Y
" 17B	Velan			262				S		82	NA / A	N
2CCP*MOV18A	12" 150# Gate Valve / Velan			217			NA	S		97	NA / A	Y
" 18B				217			NA	S		97	NA / A	Y

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UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION NTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2CCP*MOV22A	6" 150# Gate Valve / Velan	P304R	RB	263	LM	Y	Y	S	SF	94	NA / A	Y
" 22B				262			NA	S		102	NA / A	Y
2CCP*MOV93A				263			Y	S		94	NA / A	Y
" 93B				263			Y	S		94	NA / A	Y
2CCP*MOV94A	4" 150# Gate Valve / Velan		PC	263			Y			82	NA / A	Y
" 94B			PC	262			Y			82	NA / A	Y
2CCP*MOV122	8" 150# Gate Valve / Velan		PC	243			Y	S		85	NA / A	Y
" 124			RB	243			Y	S		85	NA / A	Y
2CCP*MOV265	8" 150# Gate Valve / Velan		RB	253			Y	S		85	NA / A	Y
2CCP*MOV273			PC	253			Y	S		89	NA / A	Y
2CSL*MOV104	12" 600# Gate Valve / Velan		RB	295			Y	S		61	NA / A	Y
2CSL*MOV107	4" 300# Gate Valve / Velan		ABN	178			NA	S		71	NA / A	Y

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	NTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF STATUS: QUAL	INST
2DER*MOV128	2" 1500# Globe Valve / Velan	P304R	PC	242	LM	Y	Y	S	SF	84	NA / A	N
" 129	↓		PC	242			Y	S		84	NA / A	N
2FWS*MOV21A	24" 900# Gate Valve / Velan		RB	257			Y	S		59	NA / A	Y
" 21B	↓		RB	257			Y	S		59	NA / A	Y
2GTS*MOV4A	8" 150# Gate Valve / Velan		SG	266			NA	S		89	NA / A	N
" 4B	↓		SG	266			NA	S		89	NA / A	N
2ICS*MOV116	2" 1500# Globe Valve / Velan		RB	188			NA	S		60	NA / A	N
" 120	4" 900# Globe Valve / Velan			189			NA	S		55	NA / B	Y
" 121	10" 900# Gate Valve / Velan			263			Y	S		60	NA / B	Y
" 122	12" 150# Gate Valve / Velan			203			Y			85	NA / A	Y
" 124	4" 900# Gate Valve / Velan			188			NA	S		53	NA / A	Y
" 126	6" 900# Gate Valve / Velan	↓	↓	192	↓	↓	Y	S	↓	62	NA / A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2ICS*MOV128	10" 900# Gate Valve / Velan	R304R	PC	264	LM	Y	Y	S	SF	54	NA / B	Y
" 129	6" 150# Gate Valve / Velan		ABN	241			NA	S		102	NA / A	Y
" 136	↓		RB	199			Y	S		94	NA / A	Y
" 143	2" 1500# Globe Valve / Velan		RB	207			Y	S		67	NA / A	Y
" 170	1" 1500# Globe Valve / Velan		PC	263			Y	S		50	NA / B	N
2MSS*MOV108	2" 1500# Globe Valve / Velan		PC	318			Y	S		93	NA / A	Y
" 111	6" 600# Globe Valve / Velan		PC	249			Y	S		52	NA / A	N
" 112	6" 600# Globe Valve / Velan		MST	240			NA	S		35	NA / A	N
" 118	2" 1500# Globe Valve / Velan		PC	315			Y	S		84	NA / A	Y
" 119	2" 1500# Globe Valve / Velan		PC	315			Y	S		84	NA / A	Y
" 189	↓		PC	264			Y	S		84	NA / A	Y
" 207	6" 600# Globe Valve / Velan	↓	PC	249	↓	↓	Y	S	↓	53	NA / A	N

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EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	MTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF STATUS: QUAL	INST
2MSS*MOV208	2" 1500# Globe Valve / Velan	P304R	MST	246	LM	Y	NA	S	SF	93	NA / A	N
2RHS*MOV4A	6" 300# Gate Valve / Velan		RB	203				S		102	NA / A	Y
" 4B			ABS	184				S		102	NA / A	Y
" 4C			ABS	184				S		102	NA / A	Y
2RNS*MOV15A	16" 300# Gate Valve / Velan		RB	294			Y	S		59	NA / A	Y
" 15B				292			Y	S		59	NA / A	Y
2RNS*MOV22A	8" 900# Globe Valve / Velan			234			NA	S		112	NA / B	Y
" 22B				234			NA	S		112	NA / B	Y
2RNS*MOV23A				190			NA	S		112	NA / B	Y
" 23B				190			NA	S		112	NA / B	N
2RNS*MOV25A	16" 300# Gate Valve / Velan			294			Y	S		59	NA / A	Y
" 25B				292			Y	S		59	NA / A	Y

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NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2RHS*MOV24A	12" 900# Gate Valve / Velan	P304R	RB	295	LM	Y	Y	S	SF	46	NA / B	Y
" 24B			RB	292			Y	S		46	NA / B	Y
" 24C			RB	295			Y	S		46	NA / B	Y
2RHS*MOV26A	1" 1500# Globe Valve / Velan		ABN	210			NA	S		50	NA / B	Y
" 26B			ABS	210				S		50	NA / B	N
2RHS*MOV27A			ABN	210				S		50	NA / B	Y
" 27B			ABS	210				S		50	NA / B	Y
2RHS*MOV32A	4" 300# Gate Valve / Velan		ABN	181				S		71	NA / A	Y
" 32B			ABS	177				S		71	NA / A	Y
2RHS*MOV33A	4" 300# Globe Valve / Velan		RB	229			Y	S		80	NA / A	Y
" 33B			RB	229			Y	S		80	NA / A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2RHS*MOV37A	4" 900# Globe Valve / Velan	P304R	ABN	181	LM	Y	NA	S	SF	86	NA / A	Y
" 37B	↓		ABS	177			NA	S		86	NA / A	Y
2RHS*MOV40A	12" 900# Globe Valve / Velan		RB	250			Y	S		84	NA / A	N
" 40B	↓		RB	249			Y	S		84	NA / A	Y
2RHS*MOV67A	2" 1500# Globe Valve / Velan		PC	255			Y	S		84	NA / A	Y
" 67B	↓		PC	155			Y	S		84	NA / A	N
2RHS*MOV80A	1" 1500# Globe Valve / Velan		RB	234			Y				NA / C	N
" 80B	1" 1500# Globe Valve / Velan		RB	234			Y				NA / C	N
2RHS*MOV104	6" 900# Globe Valve / Velan		RB	292			Y	S		61.	NA / A	Y
" 112	20" 900# Gate Valve / Velan		PC	256			Y	S		56	NA / B	Y
" 113	↓		RB	247			Y	S		56	NA / B	N
" 115	16" 300# Gate Valve / Velan	↓	ABS	181	↓	↓	NA	S	↓	65	NA / A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2RHS*MOV116	16" 150# Gate Valve / Velan	P304R	ABS	181	LM	Y	NA	S	SF	65	NA / A	Y
" 142	3" 300# Globe Valve		ABS	177				S		62	NA / A	Y
" 149	↓		ABS	177				S		62	NA / A	Y
2SWP*MOV15A	2½" 150# Gate Valve / Velan		RB	197				S		72	NA / A	Y
15B	↓			197				S		72	NA / A	Y
2SWP*MOV17A	12" 150# Gate Valve / Velan			206				S		97	NA / A	Y
" 17B	↓			183				S		97	NA / A	Y
2SWP*MOV18A	↓			204				S		97	NA / A	Y
" 18B	↓			205				S		97	NA / A	Y
2SWP*MOV21A	3" 150# Gate Valve / Velan			344				S		62	NA / A	Y
" 21B	↓	↓	↓	330	↓	↓	↓	S	↓	62	NA / A	Y

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UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	EQUIPMENT: SPEC NO.	LOCATION: BLDG	LOCATION: ELEV	LOCATION: HTG	LOADS: SEIS	LOADS: HYDR	QUAL ANLYS	HETH- TEST	NAT FREQ- LOWEST	RRS REF STATUS: QUAL	RRS REF STATUS: INST
25WPXMOV38A	6" 150# Gate Valve / Velan	P304R	RB	263	LM	Y	NA	S	SF	102	NA / A	Y
38B				264			NA	S		102	NA / A	Y
25WPXMOV39A				263			Y	S		94	NA / A	Y
39B				264			NA	S		102	NA / A	Y
25WPXMOV66A	8" 150# Gate Valve / Velan		DG	269				S		89	NA / A	Y
66B			DG	269				S		89	NA / A.	Y
25WPXMOV67A	4" 150# Gate Valve / Velan		CB	266				S			NA / C	Y
67B			CB.	266				S			NA / C	Y
25WPXMOV94A	8" 150# Gate Valve / Velan		DG	268				S		89	NA / A.	Y
94B			DG	269				S		89	NA / A	Y
25WPXMOV95A			DG	263				S		89	NA / A	Y
95B			DG	263				S		89	NA / A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	MTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS: QUAL	INST
2WCS*MOV101	4" 600# Gate Valve / Velan	P304R	PC	263	LM	Y	Y	S	SF	69	NA / A	Y
" 102	8" 600# Globe Valve / Velan		PC	245				S		181	NA / B	Y
" 103	8" 600# Globe Valve / Velan		PC	245				S		36	NA / A	Y
" 104	4" 600# Gate Valve / Velan		PC	244				S		69	NA / A	N
" 105	4" 600# Gate Valve / Velan		PC	243				S		69	NA / A	Y
" 112	8" 600# Globe Valve / Velan		RB	245				S		181	NA / B	Y
" 200	8" 900# Globe Valve / Velan		MST	263				S		97	NA / B	Y
" 106	6" 900# Gate Valve / Velan		RB	316			NA	S		76	NA / A	N
" 107	6" 900# Gate Valve / Velan			314				S		76	NA / A	Y
" 108	4" 900# Globe Valve / Velan			318				S		97	NA / A	Y
" 109	8" 900# Globe Valve / Velan			319				S		112	NA / A	Y
" 110	8" 900# Globe Valve / Velan			309				S		112	NA / B	Y

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UTILITY NIAGARA MOHAWK

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NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2WCS*MOV111	8" 900# Globe Valve / Velan	P304R	RB	319	LM	Y	NA	U	SF	112	NA / A	Y
2ICS*MOV159	GLOBE VALVE / VELAN	P304R	RB	188	LM	Y	Y	S	SF	50	NA / B	N

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MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL TEST	METH	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2DER*MOV119	4" 150# Gate / Velan	P3045	PC	217	LM	Y	Y	S	MF		83	NA / A	N
2DER*MOV120	↓		RB	217							83	NA / A	Y
2DER*MOV130	2" 1500# Globe / Velan		PC	243							85	NA / A	N
2DER*MOV131	↓		RB	243							85	NA / A	N
2DFR*MOV120	6" 150# Gate / Velan		RB	218							100	NA / A	Y
2DFR*MOV121	↓		PC	218							100	NA / A	N
2DFR*MOV139	3" 150# Gate / Velan		RB	241							59	NA / A	Y
2DFR*MOV140	↓		PC	257							59	NA / A	N
2HCS*MOV1A	3" 150# Globe / Velan		RB	218							55	NA / A	Y
1B	↓		↓	221							55	NA / A	Y
2HCS*MOV2A	↓		↓	229							55	NA / A	Y
2B	↓		↓	221							55	NA / A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL METH: ANLYS	TEST	NAT FREQ: LOWEST	RRS REF: STATUS: QUAL	INST
2SLS*MOV1A	3" 150 Globe Valve / Velan	P304-5	RB	290	LM	Y	N	S	MF	42	NA / C	N
1B	↓	↓	↓	290	↓	↓	↓	↓	↓	42	NA / C	N
2SLS*MOV5A	3" 1500# Stop Check / Velan	↓	↓	295	↓	↓	↓	↓	↓	65	NA / C	N
5B	↓	↓	↓	295	↓	↓	↓	↓	↓	65	NA / C	N

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SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
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NSSS SUPPLIER: GENERAL ELECTRIC

DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HCS*MOV3A	3" 150# Globe Valve / Velan	P3045	RB	256	LM	Y	Y	S	MF	55	NA / A	Y
3B			RB	256			Y				NA / A	Y
2HCS*MOV4A			PC	218			Y				NA / A	N
4B			PC	221			Y				NA / A	N
2HCS*MOV5A			PC	229			Y				NA / A	N
5B			PC	221			Y				NA / A	N
2HCS*MOV6A			PC	256			Y				NA / A	Y
6B			PC	256			Y			55	NA / A	Y
21CS*MOV148	1½" 1500# Globe Valve / Velan		RB	205			N			80	NA / A	N
21CS*MOV164	1½" 1500# Globe Valve / Velan		RB	205			N			80	NA / A	N

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EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	MTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS: QUAL	INST
2CMS*SOV23A	3/4" 1500# Globe Valve / Target Rock	P304-X	PC	294	LM	Y	Y	S	MF	139	NA / B	N
23B			PC	299							NA / B	N
23C			PC	294							NA / B	Y
23D			PC	298							NA / B	N
23E			PC	294							NA / B	N
23F			PC	298							NA / B	N
2CMS*SOV24A			PC	295							NA / B	N
24B			PC	298							NA / B	N
24C			RB	295							NA / B	N
24D			RB	298							NA / B	N
2RHS*SOV12.1	1500# GLOBE VALVE / TARGET ROCK.		RB	209	LM	Y	NA	S	MF		NA / A	N

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	ELEV	MTG	LOADS SEIS	HYDR	QUAL METH ANLYS	TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	INST
2CMS*SOV25A	3/4" 1500# Globe Valve / Target Rock	P304X	PC	219	LM	Y	Y	S	MF	139	NA / B	Y
25B			PC	220							NA / B	N
25C			PC	218							NA / B	Y
25D			PC	219							NA / B	N
2CMS*SOV26A			PC	218							NA / B	Y
26B			PC	226							NA / B	N
26C			PC	218							NA / B	N
26D			RB	226							NA / B	N
2CMS*SOV32A			RB	265							NA / B	N
32B			RB	295							NA / B	N
2CMS*SOV33A			PC	295							NA / B	N
33B			PC	265							NA / B	N

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EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	NTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF STATUS: QUAL	INST
2CMS* SOV34A	3/4" 1500# Globe Valve / Target Rock	P304X	PC	218	LM	Y	Y	S	MF	139	NA / B	Y
34B			PC	225							NA / B	Y
2CMS*SOV35A			RB	218							NA / B	N
35B			RB	228							NA / B	N
2CMS*SOV60A			RB	308							NA / B	N
60B			RB	306							NA / B	N
2CMS*SOV61A			PC	308							NA / B	N
61B			PC	308							NA / B	N
2CMS*SOV62A			RB	289							NA / B	N
62B			RB	282							NA / B	N
2CMS*SOV63A			PC	282							NA / B	N
63B			PC	282							NA / B	N

JOB NAME NMP- UNIT 2
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SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2CMS*SOV64A	3/4" 1500# Globe Valve / Target Rock	P304X	ABN	249	LM	Y	NA	U	MF	139	NA / A	N
64B			ABS	249						139	NA / A	N
2CMS*SOV65A			ABN	249						139	NA / A	N
65B			ABS	249						139	NA / A	N
2CMS*SOV74A			RB	256							NA / A	N
74B			RB	255							NA / A	N
2CMS*SOV75A			RB	256							NA / A	N
75B			RB	256							NA / A	N
2CPS*SOV119	2" 1500# Butterfly Valve / Target Rock		RB	218			Y			150	NA / B	Y
" 120			RB	296			Y			150	NA / B	N
" 121			PC	218			Y			150	NA / B	Y
" 122			PC	296			Y			150	NA / B	N

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MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL METH: ANLYS	TEST	NAT FREQ: LOWEST	RRS REF STATUS: QUAL	INST
2FPW* SOV218	2" 1500# Globe Valve / Target Rock	P304X	RB	250	LM	Y	Y	S	MF	142	NA / B	N
219			PC	251			Y			142	NA / B	N
220			RB	251			Y			142	NA / B	N
221			PC	250			Y			142	NA / B	N
2GTS* SOV102	2" 1500# Globe Valve / Target Rock		RB	319			Y			139	NA / B	Y
2HCS* SOV10A	1" 1500# Globe Valve / Target Rock			242			NA			139	NA / A	Y
10B				242						139	NA / A	Y
2HCS* SOV11A				242						139	NA / A	Y
11B				242						139	NA / A	N
2HVK* SOV36A	3" 1500# Globe Valve / Target Rock		CB	290						131	NA / A	Y
36B			CB	291						131	NA / A	Y
2HVR* SOV236	3/4" 1500# Globe Valve / Target Rock		RB	314							NA / A	N

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	ELEV	HTG	LOADS SEIS	HYDR	QUAL METH ANLYS	TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	INST
2IAS*SOV164	1½" 1500# Globe Valve / Target Rock	P304X	RB	294	LM	Y	Y	S	MF	150	NA / B	Y
165				294						150	NA / B	N
166				294						150	NA / B	Y
167				243						150	NA / B	N
168				294						150	NA / B	Y
180			PC	294						150	NA / B	N
184			PC	294						150	NA / B	N
185			PC	243						150	NA / B	N
2IAS*SOVX181	¾" 1500# Globe Valve / Target Rock		RB	294						139	NA / B	N
186				296						139	NA / B	Y
2IAS*SOVY181				294						139	NA / B	N
186				296						139	NA / B	Y

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MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2ISC*SOV119	1/2" 1500# Globe Valve / Target Rock	P304X	RB	240	LM	Y	NA	S	MF		NA / A	N
120				215			NA				NA / A	N
123				240			NA				NA / A	N
124				215			Y				NA / C	N
2LMS*SOV152	3/4" 1500# Globe Valve / Target Rock		PC	299						139	NA / B	N
153			RB	299						139	NA / B	N
156			PC	221						139	NA / B	N
157			RB	221						139	NA / B	N
2MSS*SOV97A	3/4" 1500# Globe Valve / Target Rock		MST	247							NA / C	Y
97B			MST	247							NA / C	N
97C			MST	246							NA / C	Y
97D			MST	246							NA / C	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2RCS*SOV65A	2" 1500# Globe Valve / Target Rock	P304X	RB	269	LM	Y	Y	S	MF	150	NA / B	Y
65B	↓ / ↓	↓	↓	269	↓	↓	↓	↓	↓	150	NA / B	Y
2RCS*SOV66A	1" 1500# Globe Valve / Target Rock	↓	↓	269	↓	↓	↓	↓	↓	139	NA / A	Y
66B	↓ / ↓	↓	↓	269	↓	↓	↓	↓	↓	139	NA / A	Y
2RCS*SOV67A	2" 1500# Globe Valve / Target Rock	↓	↓	269	↓	↓	↓	↓	↓	150	NA / B	Y
67B	↓ / ↓	↓	↓	269	↓	↓	↓	↓	↓	150	NA / B	Y
2RCS*SOV68A	1" 1500# Globe Valve / Target Rock	↓	↓	269	↓	↓	↓	↓	↓	139	NA / B	Y
68B	↓ / ↓	↓	↓	269	↓	↓	↓	↓	↓	139	NA / B	Y
2RCS*SOV79A	1" 1500# Globe Valve / Target Rock	↓	PC	269	↓	↓	↓	↓	↓		NA / C	Y
79B	↓ / ↓	↓	PC	269	↓	↓	↓	↓	↓		NA / C	Y
2RCS*SOV80A	1" 2500# Globe Valve / Target Rock	↓	PC	269	↓	↓	↓	↓	↓		NA / C	Y
80B	↓ / ↓	↓	PC	269	↓	↓	↓	↓	↓		NA / C	N

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	ELEV	HTG	LOADS SEIS	HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	INST
2RCS*SOV81A	2" 1500# Globe Valve / Target Rock	P304X	PC	269	LM	Y	Y	S	MF		NA / C	Y
81B			PC	269							NA / C	Y
2RCS*SOV82A	3/4" 2500# Globe Valve / Target Rock		PC	269							NA / C	Y
82B			PC	269							NA / C	N
2RCS*SOV104	3/4" 1500# Globe Valve / Target Rock		PC	262							NA / C	N
2RCS*SOV105			RB	261							NA / C	N
2RHS*SOV35A	3/4" 1500# Globe Valve / Target Rock		ABN	184			NA			139	NA / A	N
35B			ABS	180						139	NA / A	Y
2RHS*SOV36A			ABN	177						139	NA / A	Y
36B			ABS	180						139	NA / A	Y
2RHS*SOV70A	1" 1500# Globe Valve / Target Rock		RB	189						139	NA / A	Y
70B			RB	189						139	NA / A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL TEST	METH	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2RHS*SOV71A	1" 1500# Globe Valve / Target Rock	P304X	RB.	189	LM	Y	NA	S	NF		139	NA / A	Y
71B				189							139	NA / A	Y
2RHS*SOV72A				175								NA / A	N
72B				175								NA / A	Y
2RHS*SOV73A				175								NA / A	N
73B				175								NA / A	Y
2RHS*SOV120	3/4" 1500# Globe Valve / Target Rock			209								NA / A	N
2RHS*SOV126			ABS	181							139	NA / A	Y
2CHS*SOV76A	1500# GLOBE VALVE / TARGET ROCK		RB	256								NA / A	N
76B			RB	255								NA / A	N
77A			RB	256								NA / A	N
77B			RB	255								NA / A	N

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MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2CSL*MOV112	20" 150# STOP VALVE / CLOW CORP	P304Y	RB	195	LM	Y	Y	S	NA	59	NA / B	Y
2GTS*MOV1A				319			NA		MF	49	NA / A	N
2GTS*MOV1B				319						49	NA / A	N
2GTS*MOV2A			SG	266						49	NA / C	N
2GTS*MOV2B			SG	266						49	NA / C	N
2GTS*MOV3A			SG	277						49	NA / C	N
2GTS*MOV3B			SG	277						49	NA / C	N
2GTS*MOV28A	8" 150# Stop Valve / Clow Corp		SG	261						59	NA / C	N
2GTS*MOV28B			SG	261						59	NA / C	N

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2GTS*PV5A	14" 150# Stop Valve / Clow Corp.	P304Y	SG	275	LM	Y	NA	S	NA	80	NA / C	N
2GTS*PV5B	↓	↓	SG	275	↓	↓	NA	↓	↓	80	NA / C	N
2RHS*MOV1A	24" 300# Stop Valve / Clow Corp.	↓	RB	195	↓	↓	Y	↓	↓	50	NA / B	N
2RHS*MOV1B	↓	↓	↓	193	↓	↓	Y	↓	NF	50	NA / B	N
2RHS*MOV1C	↓	↓	↓	195	↓	↓	Y	↓	↓	50	NA / B	N
2RHS*MOV2A	18" 300# Stop Valve / Clow Corp	↓	ABN	183	↓	↓	Y	↓	↓	81	NA / A	Y
2RHS*MOV2B	↓	↓	RB	197	↓	↓	Y	↓	↓	81	NA / A	Y
2RHS*MOV8A	↓	↓	ABN	181	↓	↓	NA	↓	↓	57	NA / B	Y
2RHS*MOV8B	↓	↓	ABS	184	↓	↓	↓	↓	↓	57	NA / B	Y

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MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

DOCKET NO. 50-458

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2RHS*MOV30A	18" 150# Stop Valve / Clow Corp	P304Y	RB	206	LM	Y	Y	S	MF	43	NA / C	Y
2RHS*MOV30B	↓	↓	RB	206	↓	↓	Y	↓	↓	43	NA / C	Y
2SWP*FV47A	Clow Corp	↓	SB	247	↓	↓	NA	↓	NA	↓	NA / C	Y
2SWP*FV47B	Clow Corp	↓	SB	247	↓	↓	↓	↓	NA	↓	NA / C	Y
2SWP*MOV3A	30" 150# Stop Valve / Clow Corp	↓	SB	264	↓	↓	↓	↓	MF	↓	NA / C	Y
2SWP*MOV3B	↓	↓	SB	264	↓	↓	↓	↓	↓	↓	NA / C	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2SWP*MOV19A	20" 150# Stop Valve / Clow Corp.	P304Y	ABN	219	LM	Y	NA	S	MF	46	NA / C	Y
2SWP*MOV19B	↓	↓	ABN	219	↓	↓	↓	↓	↓	46	NA / C	Y
2SWP*MOV33A	18" 150# Check Valve / Clow Corp		ABN	181						43	NA / A	Y
2SWP*MOV33B	↓		ABS	181						43	NA / A	Y
2SWP*MOV50A	36" 150# Stop Valve		SB	264						37	NA / A	Y
2SWP*MOV50B				264						37	NA / A	Y
2SWP*MOV74A	18" 150# Stop Valve / Clow Corp.			264						51	NA / A	Y
2SWP*MOV74B	↓			264						51	NA / A	Y
2SWP*MOV74C				264						51	NA / A	Y
2SWP*MOV74D				264						51	NA / A	Y
2SWP*MOV74E				264						51	NA / A	Y
2SWP*MOV74F	↓	↓	↓	264	↓	↓	↓	↓	↓	51	NA / A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
25WP*MOV90A	18" 150# Stop Valve / Clow Corp.	P304Y	ABN	184	LM	Y	NA	S	MF		NA / C	Y
25WP*MOV90B	↓ / ↓	↓	ABS	181	↓	↓	↓	↓	↓		NA / C	Y
25WP*MOV599	30" 150# Stop Valve / Clow Corp	↓	SB	255	↓	↓	↓	↓	↓	70	NA / A	N
		↓			↓	↓	↓	↓	↓			
25WP*MOV93A	24" 150# Stop Valve / Clow Corp.	↓	SB	247	↓	↓	↓	↓	↓	66	NA / A	Y
93B	↓ / ↓	↓	SB	247	↓	↓	↓	↓	↓	66	NA / A	Y
25WP*FV54A	30" 150# Stop Valve / Clow Corp.	↓	SB	248	↓	↓	↓	↓	↓		NA / C	Y
FV54B	↓ / ↓	↓	SB	248	↓	↓	↓	↓	↓		NA / C	Y

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EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	MTG	LOADS: SEIS	HYDR	QUAL ANLYS	HETH- TEST	NAT FREQ- LOWEST	RRS REF STATUS: QUAL	INST
2SWP*V202A	30" 150# Check Valve / Clow Corp	P304Y	SB	247	LM	Y	NA	S	NA	39	NA / A	2
2SWP*V202B			SB	247						39	NA / A	2
2SWP*V1A	18" 150# Check Valve		SB	226						54	NA / A	2
1B			SB	226						54	NA / A	2
1C										54	NA / A	2
1D										54	NA / A	2
1E										54	NA / A	2
1F										54	NA / A	2

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL METH ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2SWP*V992	24" 150# Check Valve / Clow Corp.	P304Y	SB	246	LM	Y	NA	S	NA	54	NA / B	N
2SWP*V995	↓	↓	SB	249	LM	Y	NA	S	NA	54	NA / B	N

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL METH ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2MSS*RVV190	Reactor Head Vent Control / GPE Controls	P305B	PC	238	LM	Y	Y	S	NA		NA / D	N
25VV*RVV101	10" 600# Check Valve / GPE Controls			254						>1000	NA / A	Y
" 102				254							NA / A	Y
" 103				254							NA / A	Y
" 104				254							NA / A	Y
" 105				254							NA / A	Y
" 106				254							NA / A	Y
" 107				254							NA / A	Y
" 108				254							NA / A	Y
" 109				254							NA / A	Y
" 110				254							NA / A	Y
" 111				254							NA / A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2SVV*RVV112	10" 600# Check Valve / GPE Controls	P305B	PC	254	LM	Y	Y	S	NA	>1000	NA / A	Y
113											NA / A	Y
114											NA / A	Y
115											NA / A	Y
116											NA / A	Y
117											NA / A	Y
118											NA / A	Y
2SVV*RVV201				251							NA / A	Y
202											NA / A	Y
203											NA / A	Y
204											NA / A	Y
205											NA / A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2SVV * AVV206	10" 600# Check Valve / GPE Control	P30SB	PC	251	LM	Y	Y	S	NA	>1000	NA / A	Y
207											NA / A	Y
208											NA / A	Y
209											NA / A	Y
210											NA / A	Y
211											NA / A	Y
212											NA / A	Y
213											NA / A	Y
214											NA / A	Y
215											NA / A	Y
216											NA / A	Y
217											NA / A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
25VV*RV218	10" 600# Check Valve / GPE Controls	P30SB	PC	251	LM	Y	Y	S	NA	>1000	NA / A	Y
25VV*RV301	2½" 150# Check Valve / GPE Controls			265						279	NA / A	Y
302											NA / A	Y
303											NA / A	Y
304											NA / A	Y
305											NA / A	Y
306											NA / A	Y
307											NA / A	Y
308											NA / A	Y
309											NA / A	Y
310											NA / A	Y
311											NA / A	Y

NMP2

CHUGGING
REQUIRED RESPONSE SPECTRA FOR THE
REACTOR BUILDING

Hydrodynamic - Chugging

Required Response Spectra (RRS)
for the Reactor Building

Mass Point - Location	Elev (ft)	Reference No.*
064 - Center of Mat	170.00	149
071 - Mat (R=29.81 ft)	170.00	150
077 - Mat (R=66.375 ft)	170.00	151
078 - Pedestal at Mat	176.00	152
079 - Primary Containment @ Mat	176.00	153
080 - Secondary Containment @ Mat	175.00	154
082 - Primary Containment	180.80	155
084 - Pedestal	185.60	156
085 - Primary Containment	185.60	157
088 - Primary Containment	190.40	158
091 - Primary Containment	195.20	159
092 - Secondary Containment	261.00	160
093 - Pedestal, W. L.	201.00	161
094 - Primary Containment, W. L.	201.00	162
095 - Secondary Containment	289.00	163
097 - Primary Containment	206.11	164
100 - Primary Containment	212.22	165
102 - Pedestal	217.50	166
103 - Primary Containment	218.33	167
104 - Top of Secondary Containment	386.83	168
106 - Primary Containment	224.88	169
107 - Primary Containment	231.44	170
108 - Pedestal	230.50	171
110 - Drywell Fl @ Center Line	230.50	172
111 - Drywell Fl/Primary Containment	238.00	173
114 - Drywell Floor	238.00	174
116 - Drywell Floor/Pedestal	238.00	175
117 - Primary Containment	243.33	176
119 - Primary Containment	248.66	177
121 - Primary Containment	254.00	178
122 - Pedestal	254.00	179
123 - Primary Containment	259.33	180
127 - Primary Containment	270.00	181
128 - Primary Containment	275.33	182
130 - Primary Containment	286.00	183
131 - Primary Containment	291.33	184
133 - Primary Containment	302.00	185
134 - Primary Containment	306.36	186
136 - Primary Containment	315.25	187
137 - Primary Containment Top	326.83	188
138 - Shield Wall Out	315.23	189

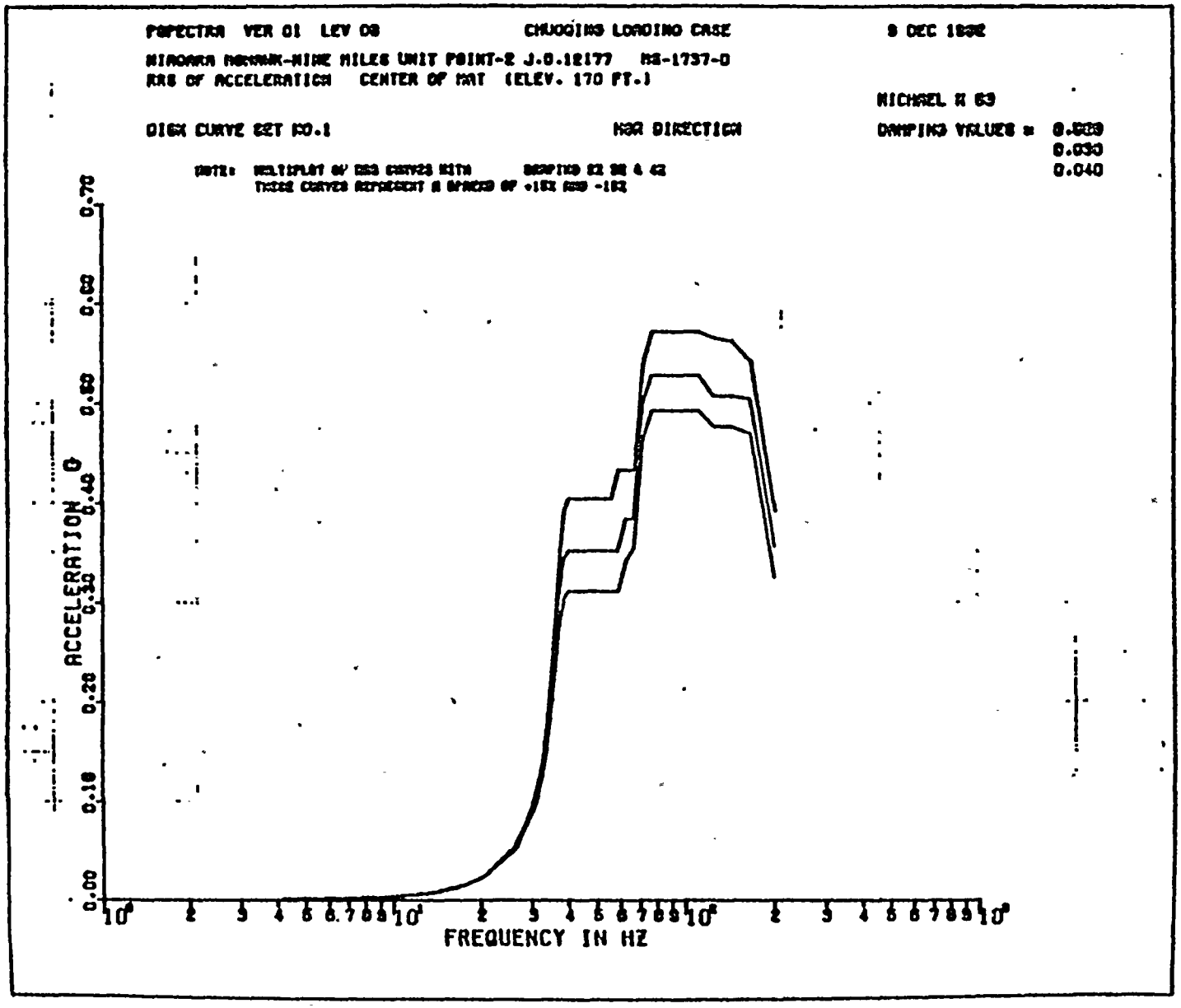
Hydrodynamic - Chugging

Required Response Spectra (RRS)
for the Reactor Building

Mass Point - Location	Elev (ft)	Reference No.*
141 - Pedestal Top	266.54	190
145 - Shield Wall Out	276.28	191
151 - Shield Wall Out	290.89	192
156 - Shield Wall Out	300.62	193
161 - RPV Shell	315.08	194
163 - RPV Shell	291.74	195
164 - RPV Shell	278.11	196
165 - RPV Shell	266.54	197

*Each reference number includes chugging for horizontal and vertical direction at 2, 3, and 4 percent damping.

PAGE #11



MS 1737

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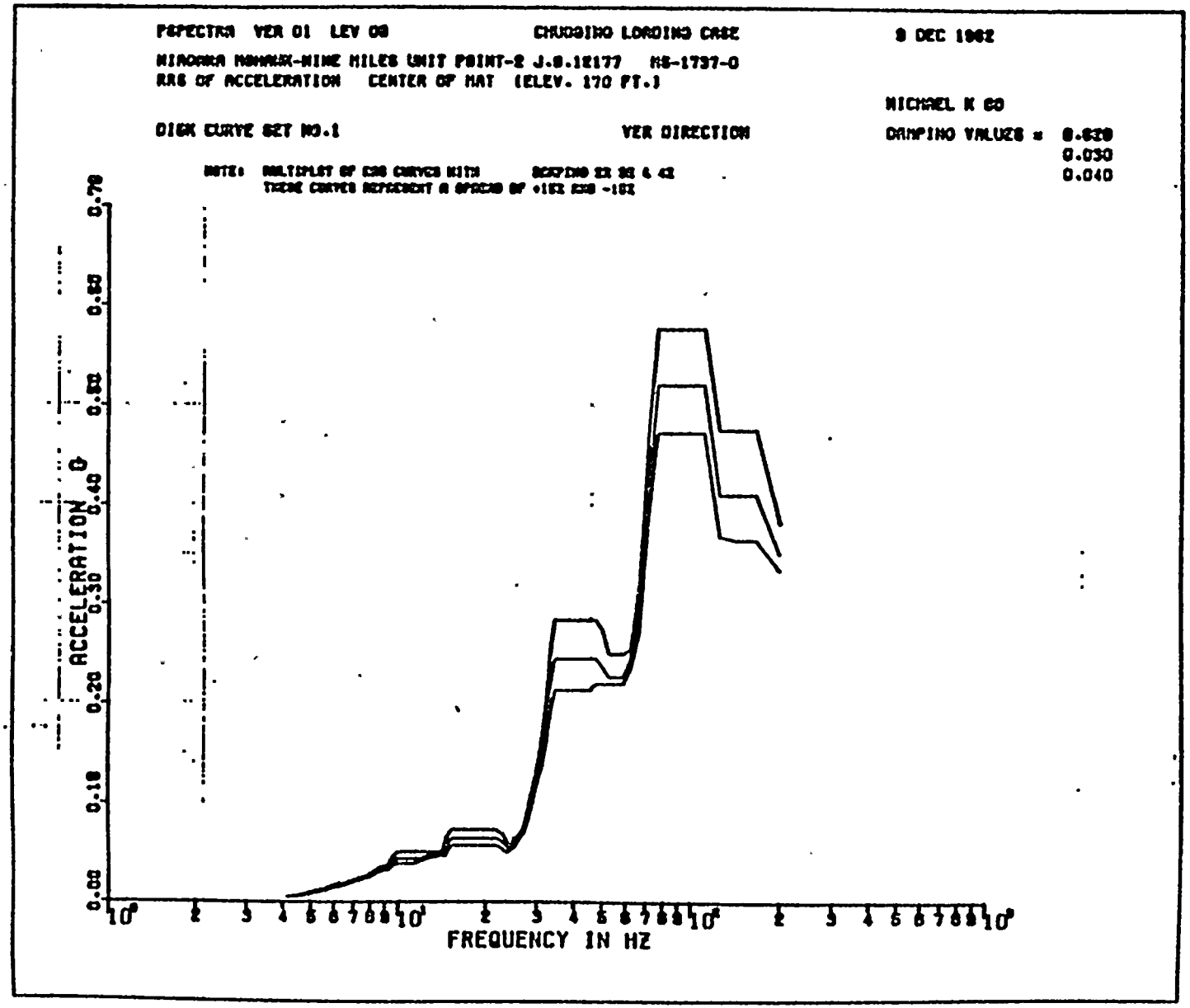


REF 149

MS 1232

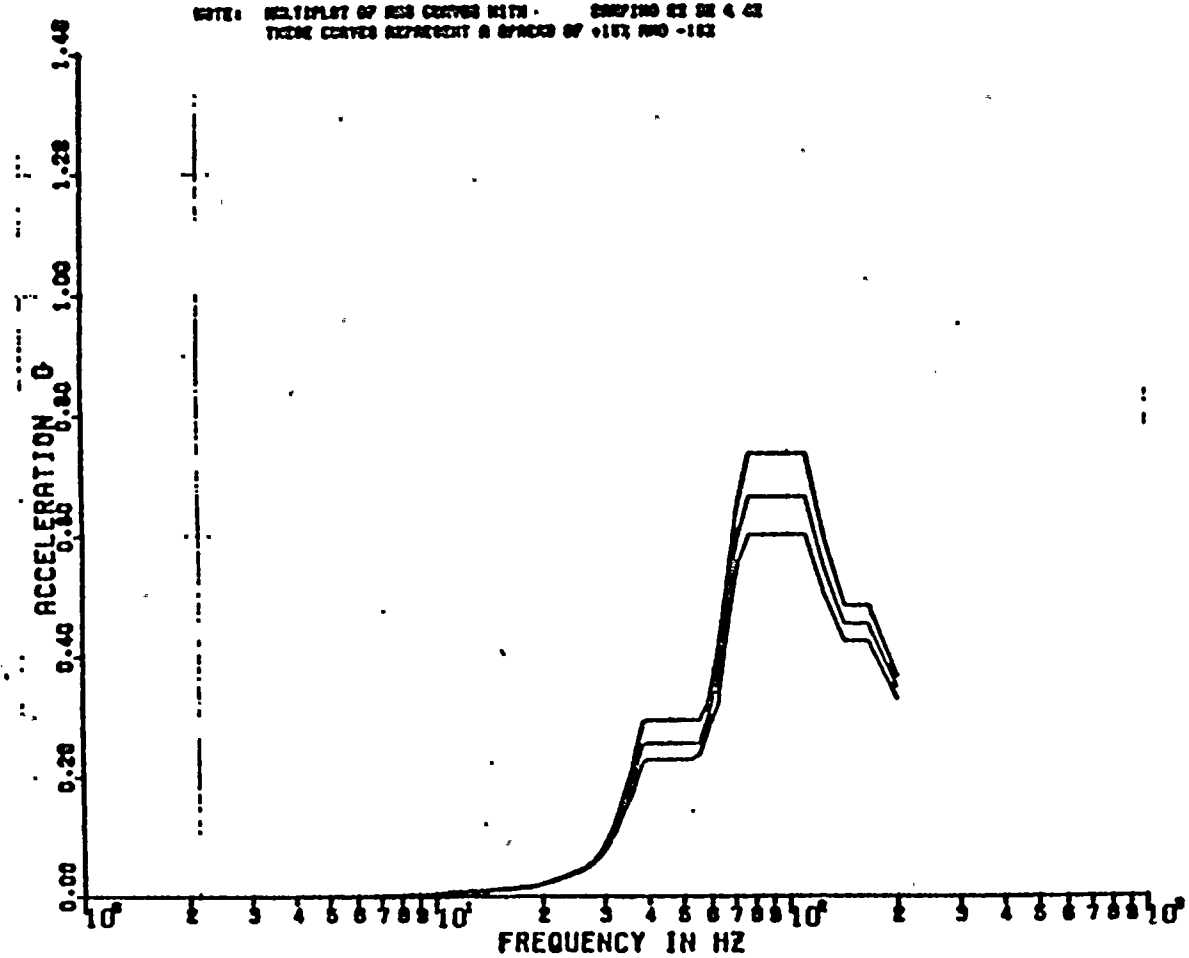
PSPECTRA VER 01 LEV 03 CHUGGING LOADING CASE 8 DEC 1992

NIAGARA MOHAWK-NINE MILES UNIT POINT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION MAT(R=28.81FT) (ELEV.170.0 FT)

MICHAEL K 83

DIGX CURVE SET M3.2 M3X DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING EQ DE 4 42
TWINE CURVES REPRESENT A SPACED OF +1SI AND -1SI



MS 1737

REF 150

PAGE # 14

SPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

MINORRA MONMAN-HINE MILES UNIT POINT-2 J.O.12177 MS-1737-0

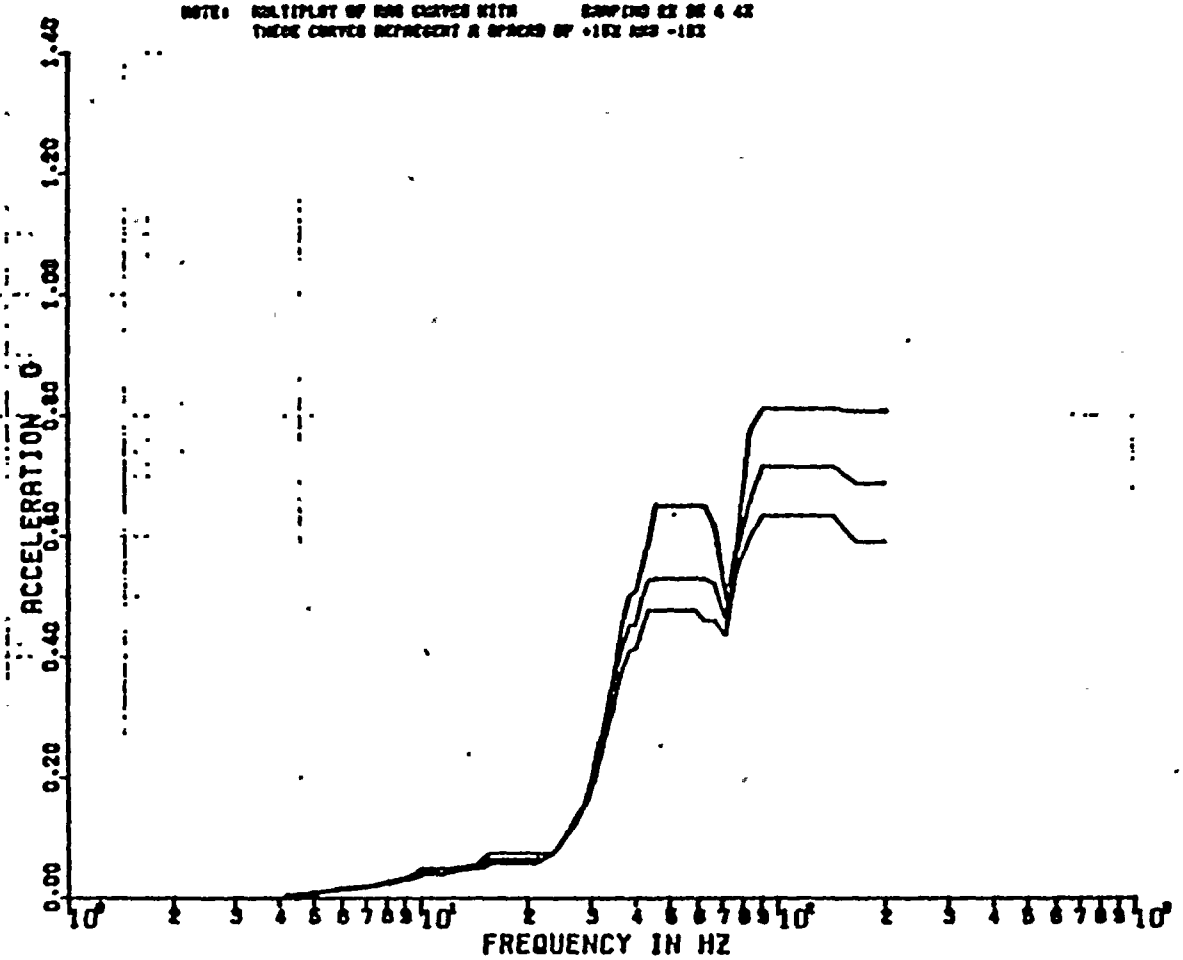
RMS OF ACCELERATION MAT(R=28.81FT) (ELEV.170.0 FT)

MICHAEL K GO

DISK CURVE SET NO.2 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING EQ OF 4 AT
THESE CURVES REPRESENT A SPACING OF +10% AND -10%



MS 1737

REF 150

PSPECTRA VER 01 LEV 08 CHUGOINO LOADING CASE 9 DEC 1982

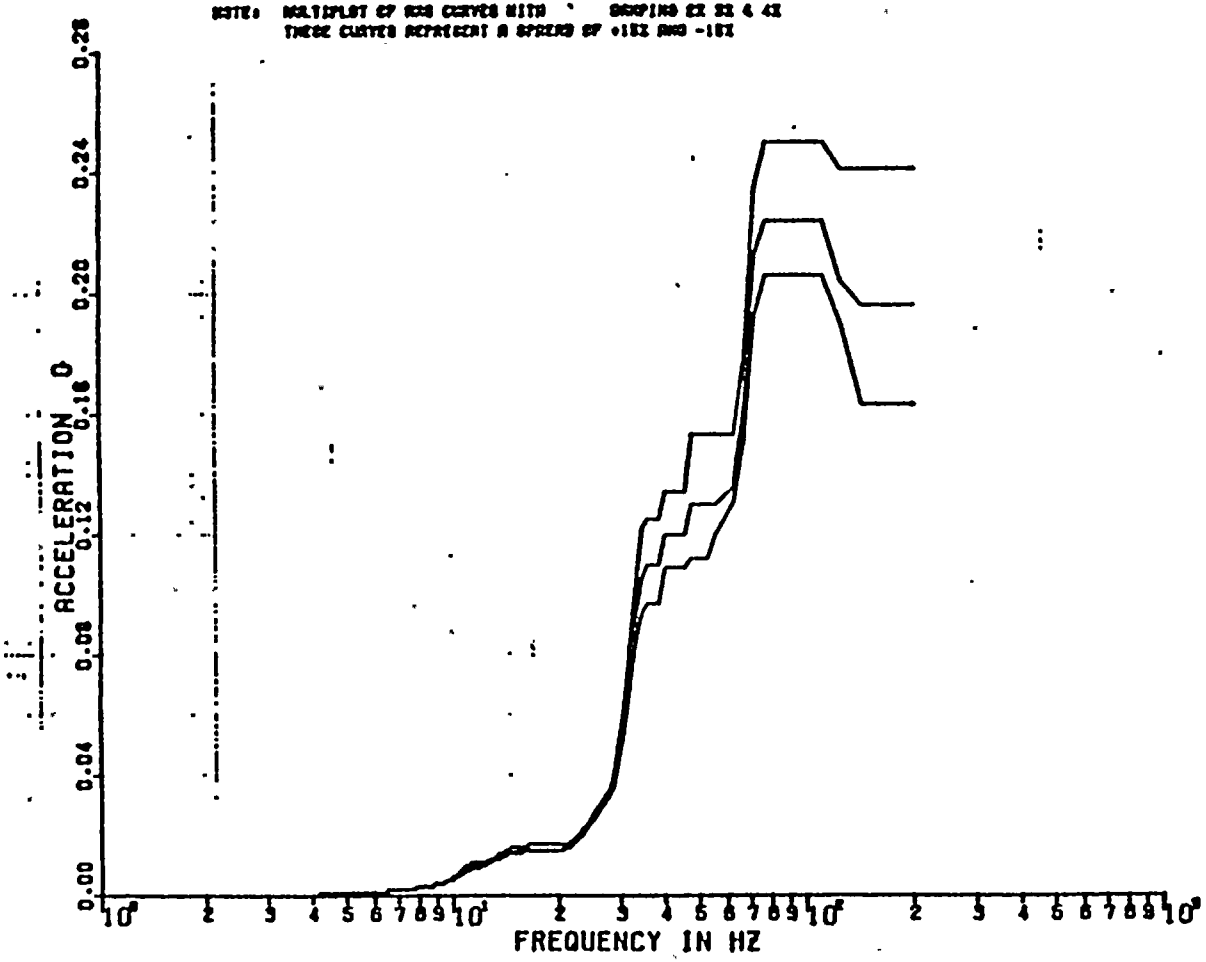
NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177 MS-1737-0
RMS OF ACCELERATION MAT(R=68.375FT) (ELEV.170.0 FT)

MICHAEL K OO

DIGN CURVE SET NO.9 HOR DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING OF 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +18% AND -18%



REF 151

MS 1737

PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

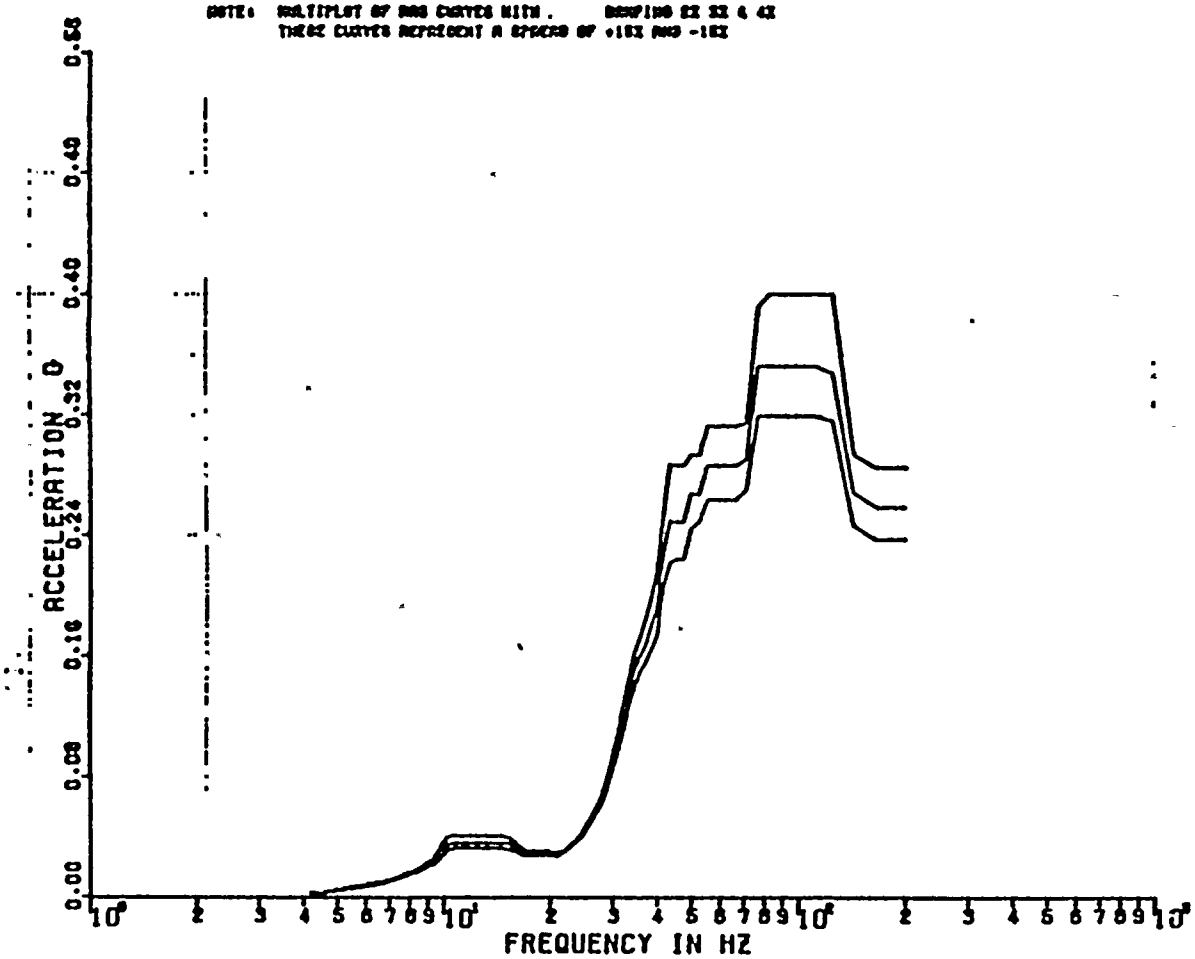
NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177 MS-1737-0
RMS OF ACCELERATION MAT(R=88.375FT) (ELEV.170.0 FT)

MICHAEL K OO

DISK CURVE SET NO.3 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH . DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPECRO OF +1SI AND -1SI



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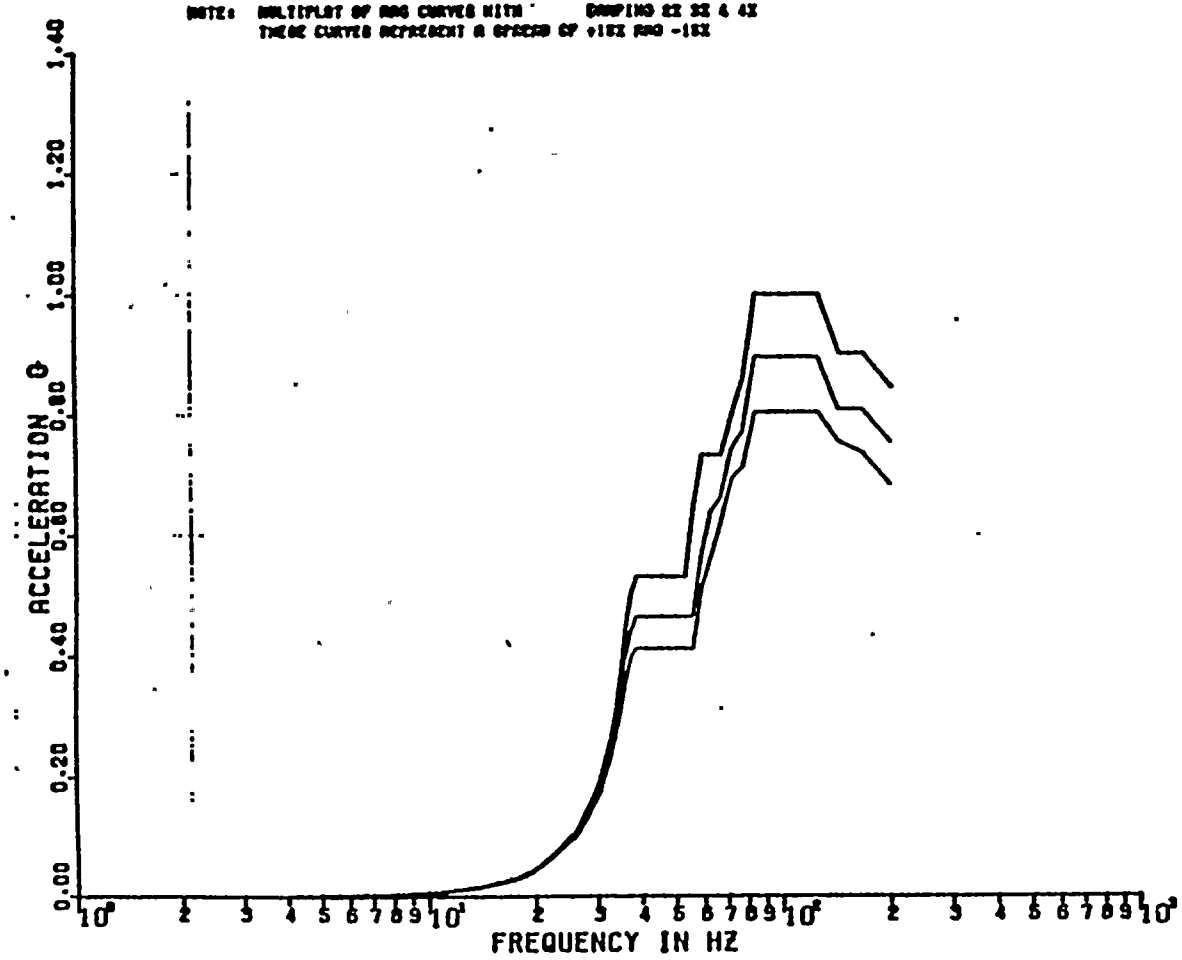
PSPECTRA VER 01 LEV 08 CHUGOING LOADING CASE 9 DEC 1982

MINGRAM MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION PEDESTAL AT MAT (ELEV 176.0 FT)

MICHAEL K OO

DISK CURVE SET NO.4 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 152

MS 1232

PSPECTRA VER 01 LEV 08 CHUGOINO LOADING CASE 9 DEC 1982

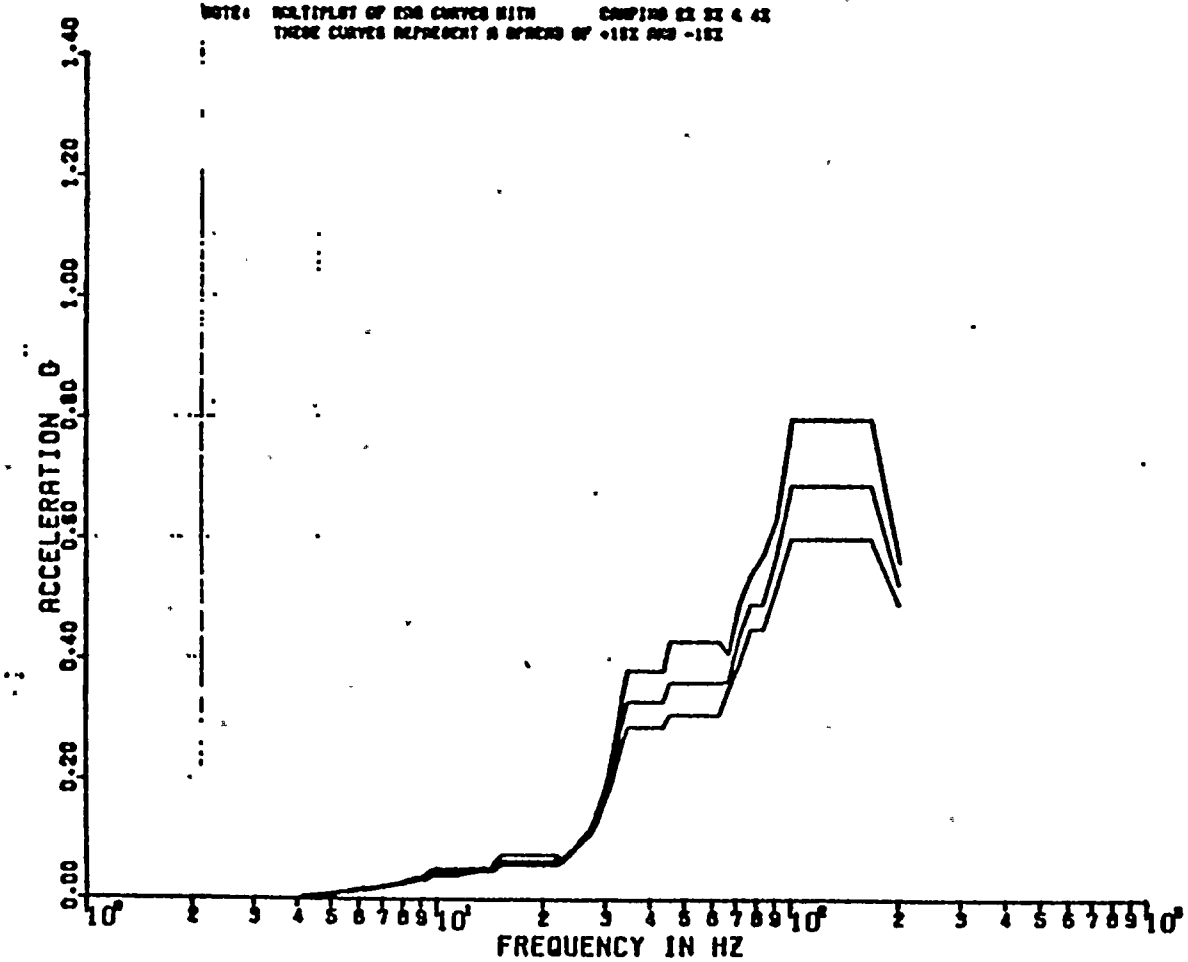
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RRS OF ACCELERATION PEDESTAL AT MAT (ELEV 175.0 FT)

MICHAEL K OO

DIBX CURVE SET NO.4 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF ESB CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



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REF 152

PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 8 DEC 1982

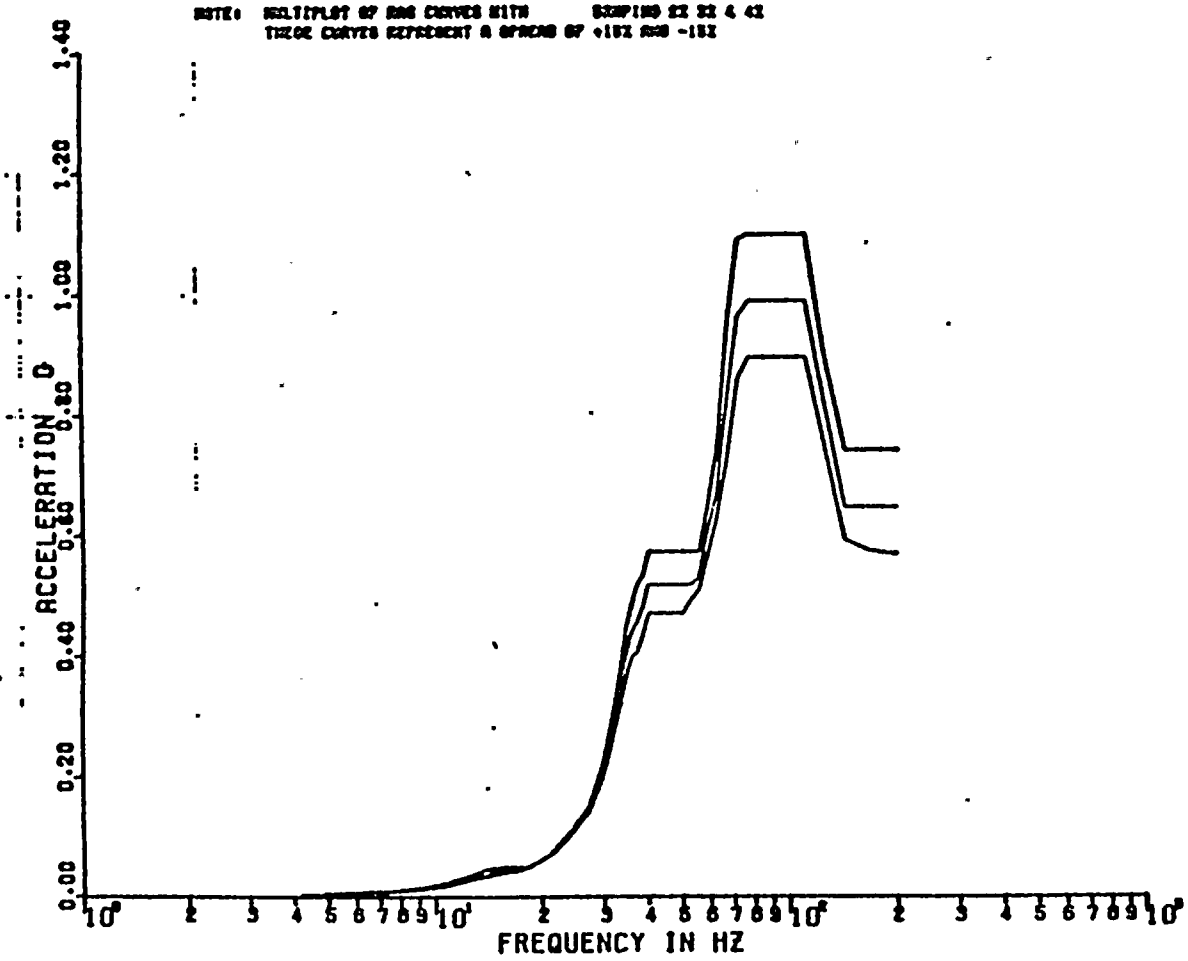
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION PRIMARY CONT. (ELEV 176.0FT) AT MAT

MICHAEL K GO

DISK CURVE SET NO.5 HOR DIRECTION

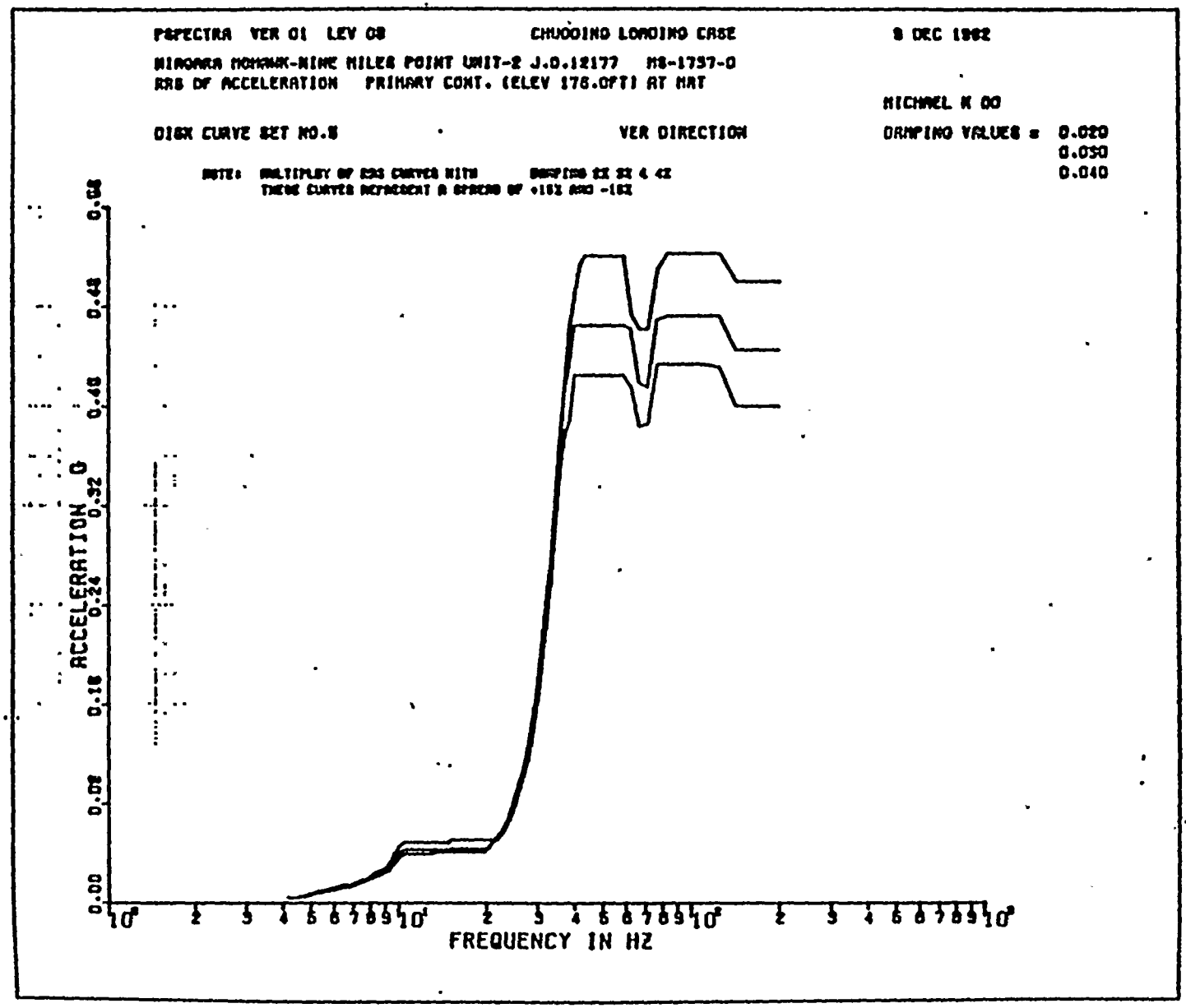
DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +18% AND -18%



REF 153

MS 1737



MS 1737

REF 153

PSPECTRA VER 01 LEV 00 CHUGOING LOADING CASE 8 DEC 1982

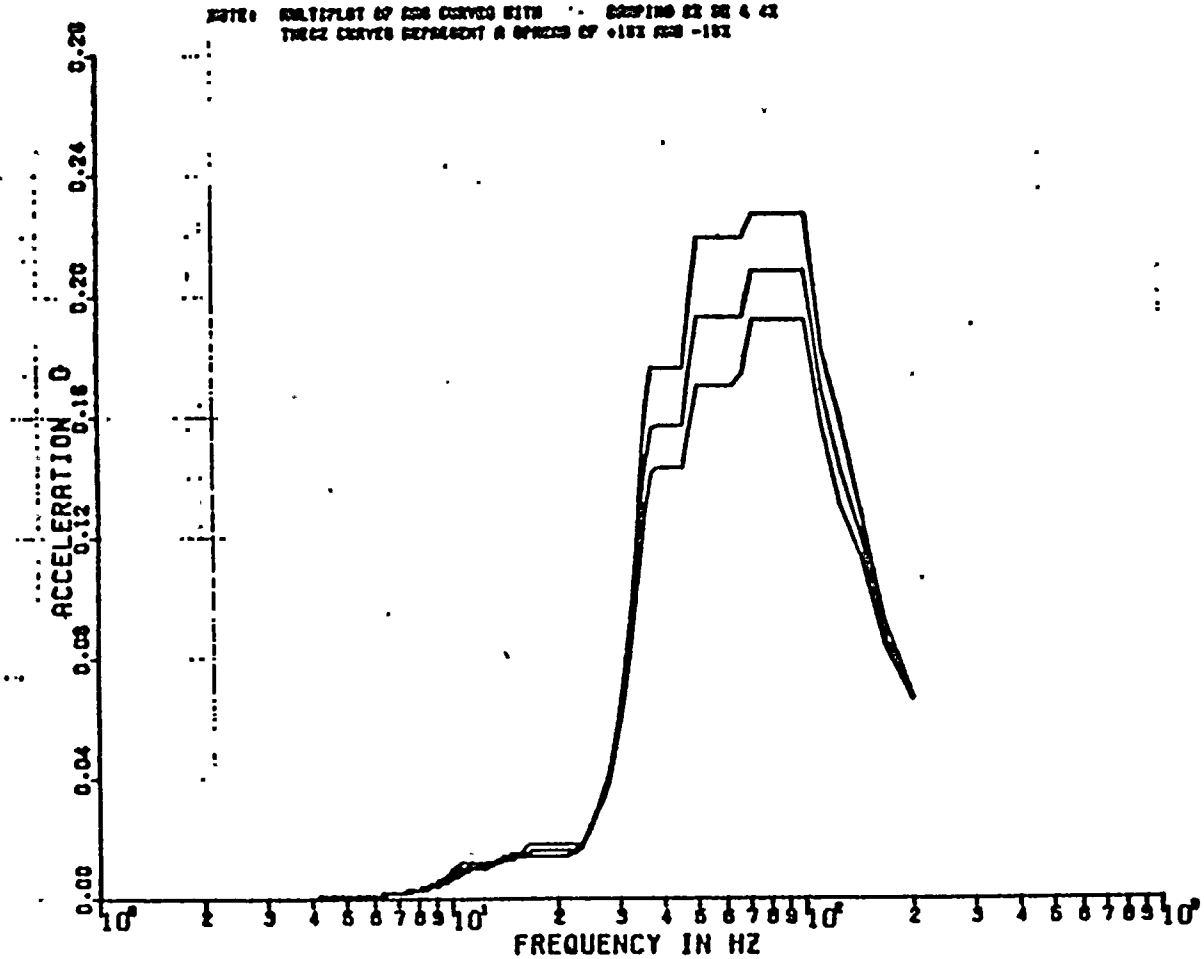
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION SECONDARY CONT. (ELEV 178) AT MAT

MICHAEL K CO

DIEX CURVE SET N3.8 HOR DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLIER OF RMS CURVES WITH - DAMPING EQ 50 & 42
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



MS 1737

REF 154

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL ANLYS	HETH- TEST	NAT FREQ- LOWEST	RRS REF: STATUS: QUAL	INST
25VV*RVV312	2½" 150# Check Valve / GPE Controls	P305B	PC	265	LM	Y	Y	S	NA	279	NA / A.	Y
" 313											NA / A	Y
" 314											NA / A	Y
" 315											NA / A	Y
" 316											NA / A	Y
" 317											NA / A	Y
" 318											NA / A	Y
2RHS*RVV36A	10" Double Vac Rel. Valve / GPE Controls		RB	205						402	NA / A	N
36B										402	NA / A	N
2RHS*RVV35A										402	NA / A	N
35B										402	NA / A	N

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2EGA*RV125	Exhaust Relief Valve / GPE Controls	P305E	DG	287	LM	Y	NA	S	NA	77	17 A	Y
2EGA*RV126	↓	↓	DG	287	LM	Y	NA	S	NA	77	17 A	Y
2EGA*RV127	↓	↓	DG	290	LM	Y	NA	S	NA	79	18 A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2CSH*STR1	Supp. Pool Strainer / Zurn Industries	P311A	PC	195	LM	Y	Y	S	NA	385	NA / A	N
2CSL*STR1	↓		PC	188			Y			385	NA / A	N
2EGF*STR1A	Simplex Strainer / Zurn Industries		DG	262			NA			NA	NA / A	Y
1B			DG	262			NA			NA	NA / A	Y
1C			DG	262			NA			NA	NA / A	Y
1D			DG	262			NA			NA	NA / A	Y
2EGF*STR2A			DG	262			NA			NA	NA / A	Y
2B	↓		DG	262			NA			NA	NA / A	Y
2RHS*STR1A	Supp. Pool Strainer / Zurn Industries		PC	195			Y			385	NA / A	N
1B			PC	195			Y			385	NA / A	N
1C	↓		PC	195			Y			385	NA / A	N
2ICS*STR1	Supp. Pool Strainer / Zurn Industries	↓	PC	191	↓	↓	Y	↓	↓	385	NA / A	N

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
25WP*STR4A	Self Clean. Strainer / Zurn Industries	P311A	SB	261	LM	Y	NA	S	MF	735	NA / A	Y
4B				261							NA / A	Y
4C				261							NA / A	Y
4D				261							NA / A	Y
4E				261							NA / A	Y
4F				261							NA / A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVC*ACU3A	Air Conditioning Unit / American Air Filter	P412M/W	CB	275	CF	Y	NA	S	MF	18	17 / A	Y
3B	↓	↓	CB	275	↓	↓	↓	↓	↓	18	17 / A	Y
2HVC*UC101A	Unit Space Cooler / American Air Filter	↓	CB	275	↓	↓	↓	↓	↓	32	17 / A	Y
101B	↓	↓	CB	275	↓	↓	↓	↓	↓	32	17 / A	Y
2HVC*UC102	↓	↓	CB	275	↓	↓	↓	↓	↓	38	17 / A	Y
2HVC*UC103A	↓	↓	CB	270	↓	↓	↓	↓	↓	39	17 / A	Y
103B	↓	↓	CB	279	↓	↓	↓	↓	↓	39	17 / A	Y
2HVC*UC104	↓	↓	RB	240	↓	↓	↓	↓	↓	32	61 / A	Y
2HVC*UC105	↓	↓	RB	240	↓	↓	↓	↓	↓	43	61 / A	Y
2HVC*UC106	↓	↓	CB	238	↓	↓	↓	↓	↓	>33	16 / A	Y
2HVC*UC107	↓	↓	CB	238	↓	↓	↓	↓	↓	>33	16 / A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	ELEV	HTG	LOADS SEIS	HYDR	QUAL ANLYS	HETH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	INST
2HVC*UC108A	Unit Cooler / American Air Filter	P412M/W	CB	275	CF	Y	NA	S	MF	>33	17 / A	Y
108B			CB	275						>33	17 / A	Y
2HVP*UC1A			DG	280						>33	17 / A	Y
1B			DG	280						>33	17 / A	Y
2HVP*UC2			DG	280						>33	17 / A	N
2HVR*UC401A			ABN	176						32	63 / A	Y
401B			ABS	183						32	63 / A	Y
401C			ABS	183						32	63 / A	Y
401D			ABN	176						32	63 / A	Y
401E			ABS	177						32	63 / A	Y
401F			ABS	177						32	63 / A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION NTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVR*UC402A	Unit Space Coolers / American Air Filter	P412M/W	ABN	176	CF	Y	NA	S	MF	20	63 A	Y
402B			ABN	177						20	63 A	Y
2HVR*UC403A			RB	176						12	63 A	N
403B				203						12	62 A	Y
2HVR*UC404A				196						33	63 A	Y
404B				176						33	63 A	Y
404C				196						33	63 A	Y
404D				206						33	62 A	Y
2HVR*UC405			ABN	206						43	62 A	N
2HVR*UC406			ABS	206						43	62 A	Y
2HVR*UC407A			RB	216						37	61 A	Y
407B			RB	216						37	61 A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVR*UC407C	Unit Cooler / American Air Filter	P412m/w	RB	216	CF	Y	NA	S	MF	37	61 A	Y
407D			RB	229						37	61 A	Y
407E			RB	223						37	61 A	Y
2HVR*UC408A			ABN	250						16	60 A	Y
408B			ABN	250						16	60 A	Y
2HVR*UC409A			ABS	250						32	60 A	Y
409B			ABS	250						32	60 A	Y
2HVR*UC410A			RB	241						37	60 A	Y
410B			RB	249						37	60 A	Y
410C			RB	241						37	60 A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVR*UC411A	Unit Space Cooler / American Air Filter	P412M/W	RB	273	CF	Y	NA	S	MF	33	59 / A	Y
411B				273						33	59 / A	Y
411C				278						33	59 / A	Y
2HVR*UC412A				186						33	63 / A	Y
412B				176						33	63 / A	Y
2HVR*UC413A				290						8	58 / A	Y
413B				290						8	58 / A	Y
2HVR*UC414A				268						>33	59 / A	Y
414B				279						>33	59 / A	Y
2HVR*UC415A			SG	277						37	59 / A	Y
415B			SG	277						37	59 / A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL METH ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVY* UC2A	Unit Space Cooler / American Air Filter	P412m/w	SB	232	CF	Y	NA	5	MF	>33	5 B	Y
2B				232						>33	5 B	Y
2C				232						>33	5 B	Y
2D				232						>33	5 B	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	HETH- TEST	NAT FREQ- LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVC*ACU1A	CR Air Cond. Unit / Carrier A.C.	P413E/V	CB	289	CF	Y	NA	S	NA	1Z	17 / A	Y
2HVC*ACU1B	CR Air Cond. Unit / Carrier A.C.	P413E/V	CB	306	↓	Y	NA	S	NA	1Z	18 / A	Y
2HVC*ACU2A	RR Air Cond. Unit / Carrier AC	P413E/V	CB	289	↓	Y	NA	S	NA	1Z	17 / A	Y
2HVC*ACU2B	RR Air Cond. Unit / Carrier AC	P413E/V	CB	306	↓	Y	NA	S	NA	1Z	18 / A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVK*CHLIA	Control Bldg. Chiller / York Div, Borg Warner	P413H	CB	261	CF	Y	N	D.	MF	10	16 / B.	Y
2HVK*CHLIB	Control Bldg Chiller / York Div, Borg Warner	P413H	CB	261	CF	Y	N	D	MF	10	16 / B.	Y

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NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF STATUS: QUAL	INST
2HVC*CH11A	Eq. Room Heater / Schneider Inc.	P413L	CB	318	CF	Y	NA	S	NA	40	19 / A	Y
CH11B	Eq. Room Heater / Schneider Inc.		CB	319							19 / A	Y
2HVC*CH12A			CB	299							18 / A	Y
12B			CB	300	CF						18 / A	Y
2HVC*DMPV1	Balancing Damper / Schneider Inc.		CB	315	HM						19 / A	Y
V2			CB	318							19 / A	Y
V4			CB	318							19 / A	Y
V5			CB	318							19 / A	Y
V6			CB	318							19 / A	Y
V7			CB	318							19 / A	Y
V8			CB	318							19 / A	Y
V9			CB	318							19 / A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVC*DMPV10	Balancing Damper / Schneider Inc.	P413L	CB	318	HM	Y	NA	S	NA	40	19 A	Y
V11			CB	319						40	19 A	Y
V12			CB	318						40	19 A	Y
V13			CB	315						33	19 A	Y
V14			CB	315						40	19 A	Y
V16			CB	318							19 A	Y
V17			CB	318							19 A	Y
V20			CB	318							19 A	Y
V21			CB	318							19 A	Y
V22			CB	318							19 A	Y
V23			CB	318							19 A	Y
V24			CB	318							19 A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL METH ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVC*DMPV25	Balancing Damper / Schneider Inc.	P413L	CB	318	HM	Y	NA	S	NA	40	19 A	Y
V27			CB	318						40	19 A	Y
V29			CB	318						33	19 A	Y
V30			CB	319							19 A	Y
V31			CB	316							19 A	Y
V32			CB	319							19 A	Y
V33			CB	318							19 A	Y
V34			CB	320							19 A	Y
V35			CB	318							19 A	Y
V36			CB	318							19 A	Y
V37			CB	319							19 A	Y
V38			CB	316						40	19 A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVC*DMPV39	Balancing Damper / Schneider Inc.	P413L	CB	316	HM	Y	NA	S	NA	40	19 / A	Y
V40			CB	316						40	19 / A	Y
V41			CB	300						33	18 / A	Y
V42			CB	297						33	18 / A	Y
V43			CB	297						40	18 / A	Y
V47			CB	298						40	18 / A	Y
V48			CB	297						33	18 / A	Y
V49			CB	300						33	18 / A	Y
V50			CB	300						40	18 / A	Y
V52			CB	300						33	18 / A	Y
V53			CB	298						33	18 / A	Y
V54			CB	296						33	18 / A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION NTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVC*DMPV55	Balancing Damper / Schneider Inc.	P413L	CB	299	HM	Y	NA	S	NA	33	18 A	Y
V56			CB	299						40	18 A	Y
V57			CB	301						40	18 A	Y
V58			CB	302						33	18 A	Y
V59			CB	299						33	18 A	Y
V60			CB	298						33	18 A	Y
V61			CB	298						40	18 A	Y
V62			CB	297						33	18 A	Y
V63			CB	269						40	17 A	Y
V64			CB	269						40	17 A	Y
V65			CB	271						40	17 A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	ELEV	HTG	LOADS SEIS	HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	INST
ZHVC*DMPV69	BALANCING DAMPER / SCHNEIDER INC.	P413L	CB	256	HM	Y	NA	S	NA	33	16 A	Y
V70			CB	256						40	16 A	Y
V71			CB	256						33	16 A	Y
V72			CB	256						40	16 A	Y
V73			CB	257						40	16 A	Y
V75			CB	230						33	15 A	Y
V76			CB	228						33	15 A	Y
V77			CB	225						33	15 A	Y
V80			CB	315						40	19 A	Y
V81			CB	319						33	19 A	Y
V82			CBR	277						40	17 A	Y

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2HVC*DMPV83	Balancing Damper / Schneider Inc.	P413L	CB	316	HM	Y	NA	S	NA	40	19 / A	Y
V84			CB	298						33	18 / A	Y
V85			ASB	240						33	5 / A	Y
V86			ASB	242						40	5 / A	Y
V87			ASB	247						40	5 / A	Y
V88			ASB	252						33	6 / A	Y
V90			ASB	244	HM					40	5 / A	Y
V91			ASB	247						40	5 / A	Y
V92			ETN	219						33	1 / A	Y
V93			ETN	219						33	1 / A	Y
V94			ETN	219						40	1 / A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	ELEV	MTG	LOADS SEIS	HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	INST
2HVC*DMPV95	Balancing Damper / Schneider Inc.	P413L	ETN	230	HM	Y	NA	S	NA	33	1 / A	Y
V96			ETN	230						40	1 / A	Y
V97			ETN	219							1 / A	Y
V98			ETN	219							1 / A	Y
V99			ETN	219							1 / A	Y
V100			ETN	247							1 / A	Y
V111			CB	298						33	18 / A	Y
2HVC*DMPV500				277						40	17 / A	Y
V501				277							17 / A	Y
V502				279							17 / A	Y
V503				278							17 / A	Y

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EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL METH: ANLYS	TEST	NAT FREQ: LOWEST	RRS REF: STATUS: QUAL	INST
2HVC*FE10A	Flow Element / Schneider Inc.	P413L	CB.	295	HM	Y	NA	S	NA	25	18 / A	Y
10B				309							19 / A	Y
2HVC*FE 110				277							17 / A	Y
2HVC*FE132				277							17 / A	Y
2HVC*FE135				306							18 / A	Y
FE141				277							17 / A	Y
FE221				277	HM						17 / A	Y
2HVC*PNLCH11A	Chiller Control Panel / Schneider Inc			306	EM			NA	MF	39	18 / A	Y
2HVC*PNLCH11B				306							18 / A	N
2HVC*PNLCH12A				286							17 / A	N
2HVC*PNLCH12B				286	EM					39	17 / A	N
2HVR*FE210	FLOW ELEMENT / SCHNEIDER INC.		RB	289	HM			S	NA	25	59 /	N

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EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL METH: ANLYS	TEST	NAT FREQ: LOWEST	RRS REF: STATUS: QUAL	INST
2HVR*DMPV1	Volume Damper / Schneider, Inc.	P413L	RB	189	HM	Y	NA	S	NA	40	63 A	Y
V2				235						33	61 A	Y
V3				235						40	61 A	Y
V4				233						33	61 A	Y
V5				228						40	61 A	Y
V6				235						40	61 A	Y
V7				235						40	61 A	Y
V8				245						40	60 A	Y
V9				321						33	61 A	N
V10				255						40	60 A	Y
V11				302						40	58 A	Y
V14				323	HM					33	58 A	Y

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EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS: QUAL	INST
2HVR*DMPV15	Volume Damper / Schneider, Inc.	P413L	RB	348	HM	Y	NA	S	NA	40	57 A	Y
V16				348						33	57 A	Y
V17				348						40	57 A	Y
V18				348						40	57 A	Y
V19				348						40	57 A	Y
V20				189						33	63 A	Y
V21				302							58 A	Y
V22				302							58 A	Y
V24				322							58 A	Y
V25				322							38 A	Y
V26				308							58 A	Y

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UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	ELEV	MTG	LOADS SEIS	HYDR	QUAL ANLYS	HETH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	INST
2HVC*FN4A	Safety Related Axial Fan / Joy Mfg. Co.	P413R	CB	298	CF	Y	N	S	NA	101	18 A	Y
4B			CB	316	DW					101	19 A	N
2HVC*FN11A			CB	279	CF					86	17 A	Y
11B			CB	279						86	17 A	Y
2HVP*FN1A			DG	275						48	17 A	Y
2HVP*FN1B			DG	275							17 A	Y
2HVP*FN1C			DG	275							17 A	Y
2HVP*FN1D			DG	275							17 A	Y
2HVP*FN1E			DG	261							16 A	N
2HVP*FN2A			DG	275							17 A	N
2HVP*FN2B			DG	275	CF					48	17 A	Y
2HVY*FN1A			SA	261	DW					57	11 A	N

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVY*FN1B	SAFETY RELATED AXIAL FAN / JOY MFG. Co.	P413R	SA	261	DW	Y	NA	S	NA	57	11 A	N
2HVY*FN1C			SA	261	DW	Y	NA	S	NA	57	11 A	N
2HVY*FN1D			SA	261	DW	Y	NA	S	NA	57	11 A	N

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2GTS*FN1A	Filter Discharge Fan / Buffalo Forge	P413S	SG	261	CF	Y	NA	S	NA	28	3 / A	N
2GTS*FN1B	↓	↓	SG	261	↓	↓	↓	↓	↓	28	3 / A	N
2HVC*FN2A	Cont. Rm A/C Fan / Buffalo Forge	↓	CB	288	↓	↓	↓	↓	↓	17	18 / A	N
2HVC*FN2B	↓	↓	CB	306	↓	↓	↓	↓	↓	17	18 / A	N

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2GTS* DMP1A	Tornado Damper / Pacific Air Products	P413T	SG	277	HM	Y	NA	S	SF	26	3 / A	N
1B			SG	277					SF	26	3 / A	N
2GTS* DMP2A			SG	277					SF	26	3 / A	N
2B			SG	277					SF	26	3 / A	N
2HVC* AOD6A	ACU Disch. Damper / Pacific Air Products		CB	300					MF	53	18 / A	Y
6B				317					MF	53	19 / A	Y
2HVC* AOD12A				294					MF	53	18 / A	Y
12B				311					MF	53	19 / A	Y
2HVC* AOD54A	Suction Damper for fan / Pacific Air Products			282					MF	53	17 / A	Y
54B				282					MF	53	17 / A	Y
2HVC* AOD61A	CB Air Isolation Damper / Pacific Air Products			316					MF	53	19 / A	Y
61B				298					MF	53	18 / A	Y

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVC*AOD117	Fan Disch. Damper / Pacific Air Products	P413T	CB	308	HM	Y	NA	S	MF	53	19 / A	Y
2HVC*AOD120	↓			308					MF	53	19 / A	Y
2HVC*AOD142	Smk Rem Inlet Damper / Pacific Air			324					MF	53	19 / A	Y
145				318					MF	53	19 / A	Y
148				300					MF	53	18 / A	Y
169	Makeup Air Damper / Pacific Air			279					MF	53	17 / A	Y
170	UC Disch. Damper / Pacific Air			239					MF	53	16 / A	Y
171	Smk Rem Suct. Damper / Pacific Air			247					MF	53	16 / A	Y
177				261					MF	53	16 / A	Y
178				239					MF	53	16 / A	Y
179				245					MF	53	16 / A	Y
182			ASB	242					MF	53	16 / A	Y

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EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	MTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS: QUAL	INST
2HVC*AOD183	UC Disch Damper / Pacific Air Products	P413T	ASB	247	HM	Y	NA	S	MF	53	5 / A	Y
192	Fan Suct. Damper / Pacific Air Products		ASB	241					MF	53	5 / A	Y
193	UC Disch. Damper / Pacific Air		ASB	239					MF	53	5 / A	Y
212	Smk Rem. Damper / Pacific Air		CB	249					MF	53	16 / A	Y
213	Smoke Rem. Damper / Pacific Air			253					MF	53	16 / A	Y
214				249					MF	53	16 / A	Y
215				253					MF	53	16 / A	Y
2HVC*DMP1A	Backdraft Damper / Pacific Air			193					NA	33	14 / A	N
1B				193					NA	33	14 / A	N
2HVC*DMP2A				293					NA	33	18 / A	Y
2B				311					NA	33	19 / A	Y

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EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	HTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH-TEST	NAT FREQ-LOWEST	RRS REF: QUAL	STATUS: INST
2HVC* DMP3A	Backdraft Damper / Pacific Air	P413T	CB	219	HM	Y	NA	S	NA	33	15 / A	Y
3B	↓		CB	219					NA	33	15 / A	Y
2HVC*DMP4	Tornado Damper / Pacific Air		CB	316					SF	26	19 / A	Y
2HVC*DMP5	Manual Damper / Pacific Air		CB	314					SF	31	19 / A	Y
2HVC*DMP6A	↓		CB	292					SF	53	18 / A	Y
6B	↓		CB	292					SF	53	18 / A	Y
2HVC*DMP8A	Backdraft Damper / Pacific Air		CB	279					NA	33	17 / A	Y
8B	↓		CB	279					NA	33	17 / A	Y
2HVC*DMP9	Tornado Damper / Pacific Air		CB	301					SF	26	18 / A	Y
2HVC*DMP12A	Backdraft Damper / Pacific Air		CB	298					NA	33	18 / A	Y
12B	↓		CB	298					NA	33	18 / A	Y
2HVC*DMPF100	TORNADO DAMPER / PACIFIC AIR		CB	288					NA	26	17 / A	Y

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EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION: BLDG	ELEV	NTG	LOADS: SEIS	HYDR	QUAL ANLYS	METH- TEST	NAT FREQ- LOWEST	RRS REF STATUS: QUAL	INST
2HVC*DMP13A	Backdraft Damper / Pacific Air	P413T	CB	298	HM	Y	NA	S	NA	33	18 / A	Y
13B	↓		CB	298					NA	33	18 / A	Y
2HVC*DMP22	Tornado Damper / Pacific Air		CB	294					SF	26	18 / A	Y
23			ASB	247					SF	26	6 / A	N
24			ASB	247					SF	26	6 / A	Y
25			CB	279					SF	26	17 / A	Y
26			CB	283					SF	26	17 / A	Y
2HVC*DMP51A	Backdraft Damper / Pacific Air		CB	261					NA	33	16 / A	Y
51B			CB	261					NA	33	16 / A	Y
2HVC*DMP63			CB	315					NA	33	19 / A	Y
71			CB	319					NA	33	19 / A	Y
72			CB	318			Y	Y	NA	33	19 / A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVC*DMP73	Backdraft Damper / Pacific Air	P413T	CB	320	HM	Y	NA	S	NA	33	19 / A	Y
75	↓	↓	CB	300	↓	↓	↓	↓	↓	33	18 / A	Y
2HVC*DMP76A	Manual Damper / Pacific Air		CB	261						53	16 / A	Y
76B	↓		CB	261						53	16 / A	Y
2HVC*DMP80	Backdraft Damper / Pacific Air		CB	317						33	19 / A	Y
81	↓		CB	315						33	19 / A	N
82	↓		CB	299						33	18 / A	Y
83	↓		CB	297						33	18 / A	Y
88	Manual Damper / Pacific Air		CB	283					SF	53	17 / A	Y
90	Backdraft Damper / Pacific Air		CB	262					NA	33	17 / A	Y
91	↓		CB	262					NA	33	17 / A	Y
93	↓	↓	CB	288	↓	↓	↓	↓	NA	33	18 / A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF / STATUS QUAL	RRS REF / STATUS INST
2HVC*DMP94	Backdraft Damper / Pacific Air	P413T	CB	301	HM	Y	NA	S	NA	33	18 / A	Y
98			CB	306					SF	26	18 / A	Y
99			CB	288					SF	26	18 / A	Y
101			CB	306					SF	26	18 / A	Y
2HVC*DMPF1	Fire Damper / Pacific Air		ASB	237					NA	17	5 / A	Y
F2			ASB	237						17	5 / A	Y
F3			ASB	250						17	5 / A	Y
F4			ASB	237						17	5 / A	Y
F7			CB	256						17	16 / A	Y
F8			ASB	255						17	6 / A	Y
F9			ASB	256						17	6 / A	Y
F10			CB	256						17	16 / A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL METH ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVC*DMPF11	Fire Damper / Pacific Air	P413T	CB	256	HM	Y	NA	S	NA	17	6 / A	Y
F12			CB	237							15 / A	Y
F13			CB	237							15 / A	Y
F15			CB	228							15 / A	Y
F16			CB.	228							15 / A	Y
F17			CB	228							15 / A	Y
F18			CB	256							16 / A	Y
F22			CB	256							16 / A	Y
F23			CB	256							16 / A	Y
F24			CB	238							16 / A	Y
F25.			CB	257							16 / A	Y
F26			CB	237							19 / A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF / STATUS QUAL	RRS REF / STATUS INST
2HVC*DMPF29	Fire Damper / Pacific Air	P413T	CB	228	HM	Y	NA	S	NA	17	15 A	Y
F30			CB	256							16 A	Y
F32			CB	318							19 A	Y
F33			CB	317							19 A	Y
F34			CB.	319							19 A	N
F37			CB	316							19 A	Y
F39			CB	316							19 A	Y
F40			CB	318							19 A	Y
F41			CB	319							19 A	N
F42			CB	319							19 A	Y
F43.			CB	319							19 A	Y
F44			CB	238							16 A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

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NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL METH ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVCxDMPF45	Fire Damper / Pacific Air	P413T	CB	319	HM	Y	NA	S	NA	17	19 A	Y
F46			CB	319							19 A	N
F47			CB	318							19 A	Y
F48			CB	320							19 A	Y
F49			CB	311							19 A	Y
F52			CB	306							18 A	Y
F53			CB	311							19 A	Y
F54			CB	315							19 A	Y
F55			CB	306							18 A	Y
F63			CB	315							19 A	N
F66			CB	317							19 A	Y

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JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
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NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER		SPEC NO.	LOCATION BLDG	LOCATION ELEV HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVC*DMPF73	Fire Damper	Pacific Air	P413T	CB	300	HM	Y	NA	S	NA	17	18 A	Y
F74				CB	298							18 A	Y
F80				CB	300							18 A	Y
F81				CB	289							18 A	Y
F82				CB	238							16 A	Y
F86				CB	299							18 A	Y
F88				CB	299							18 A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
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NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL METH ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVC*DMPF89	Fire Damper / Pacific Air	P413T	CB	292	HM	Y	NA	S	NA	17	18 A	Y
F90			CB	306							18 A	Y
F27			CB	224							15 A	
F92			CB	292							18 A	Y
F94			CB	301							18 A	Y
F95			CB	288							18 A	Y
F96			CB	297							18 A	Y
F97			CB	299							18 A	Y
F110			CB	288							18 A	Y
F112			CB	261							16 A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL METH ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVC*DMPF113	Fire Damper / Pacific Air	P413T	CB	274	HM	Y	NA	S	NA	17	17 A	Y
F115			CB	262							17 A	Y
F117			CB	262							17 A	Y
F120			CB	262							17 A	Y
F132			CB	298							18 A	Y
F135			CB	224							15 A	Y
F137			CB	222							15 A	Y
F139			CB	275							17 A	Y
F140			CB	224							15 A	Y
F141			CB	275							17 A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
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NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVC*DMPF167	Fire Damper / Pacific Air	P413T	ET	230	HM	Y	NA	S	NA	17	1,20 / A	Y
F169			CB	270							17 / A	Y
F170			CB	283							17 / A	Y
F171			CB	288							18 / A	Y
F172			CB.	283							17 / A	Y
F179			CB	288							18 / A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	ELEV	HTG	LOADS SEIS	HYDR	QUAL METH ANLYS	TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	INST
2HVC*DMPF190	FIRE DAMPER / PACIFIC AIR	P413T	CB	262	HM	Y	NA	S	NA	17	17 A	Y
F191			CB	262							17 A	Y
F197			CB	237							15 A	Y
F198			CB	237							15 A	Y
F200			CB	228							15 A	Y
F201			CB	275							17 A	Y
F202			CB	276							17 A	Y
F211			CB	306							18 A	Y
F212			CB	306							18 A	Y
F213			ET	221							1,20 A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVC*DMPF214	Fire Damper / Pacific Air	P413T	ASB	237	HM	Y	NA	S	NA	17	5 / A	Y
F215			ASB	232							5 / A	Y
F220			CB	269							17 / A	Y
F225			ASB	237							5 / A	Y
F226			ET	237							1,20 / A	Y
F230			CB	297							18 / A	Y
F231			CB	214							14 / A	Y
F232			ET	237							1,20 / A	Y
F233			CB	280							17 / A	Y
2HVP*AOD4A	Engine Rm Inlet Damper / Pacific Air		DG	284					MF	53	17 / A	Y
4B			DG	284					MF	53	17 / A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF QUAL	RRS REF STATUS INST
2HVP*AOD4C	Engine Rm Inlet Damper / Pacific Air	P413T	DG	284	HM	Y	NA	S	MF	53	17 A	Y
4D			DG	284					MF	53	17 A	Y
2HVP*AOD5A			DG	284					MF	53	17 A	Y
5B			DG	284					MF	53	17 A	Y
2HVP* DMP13	Tornado Damper / Pacific Air		DG	277					SF	26	17 A	Y
2HVP* DMP15A			DG	279					SF	26	17 A	Y
15B			DG	279					SF	26	17 A	Y
15C			DG	279					SF	26	17 A	Y
15D			DG	279					SF	26	17 A	Y
2HVP*DMP16A			DG	279					SF	26	17 A	Y
16B			DG	279					SF	26	17 A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	ELEV	HTG	LOADS SEIS	HYDR	QUAL ANLYS	HETH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	INST
2HVP*DMP17A	Tornado Damper / Pacific Air	P413T	DG	282	HM	Y	NA	S	SF	26	17 / A	Y
17B			DG	282					SF	26	17 / A	Y
2HVP*DMP18			DG	282					SF	26	17 / A	Y
2HVP*DMP19A			DG	284					SF	26	17 / A	Y
19B			DG	284					SF	24	17 / A	Y
19C			DG	284					SF	26	17 / A	Y
19D			DG	284					SF	26	17 / A	Y
2HVP* DMP20A			DG	284					SF	26	17 / A	Y
20B			DG	284					SF	26	17 / A	Y
2HVP*DMP21			DG	261					SF	26	16 / A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT: DESCRIPTION / MANUFACTURER	EQUIPMENT: SPEC NO.	LOCATION: BLDG	LOCATION: ELEV	LOCATION: HTG	LOADS: SEIS	LOADS: HYDR	QUAL ANLYS	QUAL METH: TEST	NAT FREQ: LOWEST	RRS REF: STATUS: QUAL	RRS REF: STATUS: INST
2HVP* MOD1A	Diesel Gen. Rm Exhaust / Pacific Air	P413T	DG	279	HM	Y	NA	S	MF	53	17 A	Y
1B			DG	279					MF	53	17 A	Y
1C			DG	279					MF	53	17 A	Y
1D			DG	279					MF	53	17 A	Y
2HVP*MOD2A			DG	279					MF	53	17 A	Y
2B			DG	279					MF	53	17 A	Y
2HVP*MOD6A	Diesel Gen Rm Recirc / Pacific Air		DG	280					MF	53	17 A	Y
2HVP*MOD6B	Diesel Gen. Rm. Recirc. / Pacific Air		DG	280					MF	53	17 A	Y
6C			DG	280					MF	53	17 A	Y
6D			DG	280					MF	53	17 A	Y
2HVP* MOD7A			DG	280					MF	53	17 A	Y
7B			DG	280					MF	53	17 A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF / STATUS QUAL	RRS REF / STATUS INST
2HVR*AOD1A	Supply Air Isol. Damper / Pacific Air	P413T	RB	301	HM	Y	NA	S	MF	41	58 / A	Y
1B	↓	↓	↓	301	↓	↓	↓	↓	MF	41	58 / A	Y
2HVR*AOD6A	U.C. Inlet Damper / Pacific Air	↓	↓	296	↓	↓	↓	↓	MF	53	58 / A	N
6B	↓	↓	↓	296	↓	↓	↓	↓	MF	53	58 / A	N
2HVR*AOD9A	Exh Air Isol. Damper / Pacific Air	↓	↓	320	↓	↓	↓	↓	MF	41	58 / A	Y
9B	↓	↓	↓	320	↓	↓	↓	↓	MF	41	58 / A	Y
2HVR*AOD10A	↓	↓	↓	416	↓	↓	↓	↓	MF	41	55 / A	N
10B	↓	↓	↓	416	↓	↓	↓	↓	MF	41	55 / A	N
2HVR*AOD34A	UC Test Damper / Pacific Air	↓	↓	296	↓	↓	↓	↓	MF	53	58 / A	N
34B	↓	↓	↓	296	↓	↓	↓	↓	MF	53	58 / A	N
2HVR*AOD114	Filter Disch. Damper / Pacific Air	↓	↓	309	↓	↓	↓	↓	MF	53	58 / A	N
2HVR*AOD204	EVAC FLTS DISCH DAMPER / PACIFIC AIR	↓	↓	309	↓	↓	↓	↓	MF	33	58 / A	N

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
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NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVR*DMP8A	Backdraft Damper / Pacific Air	P413T	ABN	253	HM	Y	NA	S	NA	33	60 A	Y
8B			ABN	253						33	60 A	Y
2HVR*DMP9A			ABS	253						33	60 A	Y
9B			ABS	253						33	60 A	Y
2HVR*DMP12			RB	305						33	58 A	Y
18				297						33	58 A	Y
19				297						33	58 A	Y
20				316						33	58 A	Y
21				320						33	58 A	Y
2HVR*DMPF4	Fire Damper / Pacific Air			261						17	60 A	Y
5				250						17	60 A	Y
6				240						17	61 A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS REPORT
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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	ELEV	NTG	LOADS SEIS	HYDR	QUAL ANLYS	METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	INST
2HVR*DMPF12	Fire Damper / Pacific Air	P413T	RB	199	HM	Y	NA	S	NA	17	62 / A	Y
13	↓	↓	RB	201	↓	↓	↓	↓	NA	17	62 / A	Y
14	↓	↓	RB	214	↓	↓	↓	↓	NA	17.	62 / A	N
2HVY*AOD34A	Smoke Rem. Damper / Pacific Air	↓	SB	275	↓	↓	↓	↓	MF	53	6 / A	Y
34B	↓	↓	SB	275	↓	↓	↓	↓	MF	53	6 / A	Y

JOB NAME NMP- UNIT 2
UTILITY NIAGARA MOHAWK

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EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION HTG	LOADS SEIS	LOADS HYDR	QUAL ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVC*DMPF234	FIRE DAMPERS	P413U	CB	302	DM	Y	NA	NA	MF	<15	18 A	N
235				318							19 A	Y
236				318							19 A	Y
237				318							19 A	Y
238				318							19 A	Y
239				307							18 A	Y
240				298							18 A	N
241				296							18 A	N
242				299							18 A	N
243				299							18 A	N
244				299							18 A	N
2HVC*DMPF245				291							18 A	N

JOB NAME NMP- UNIT 2
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NSSS SUPPLIER: GENERAL ELECTRIC

EQUIP. ID	EQUIPMENT DESCRIPTION / MANUFACTURER	SPEC NO.	LOCATION BLDG	LOCATION ELEV	LOCATION MTG	LOADS SEIS	LOADS HYDR	QUAL METH ANLYS	QUAL METH TEST	NAT FREQ LOWEST	RRS REF STATUS QUAL	RRS REF STATUS INST
2HVC*DMPF246	FIRE DAMPERS	P413.U	CB	269	DM	Y	NA	NA	MF	<15	17 A	Y
247			CB	270							17 A	Y
248			CB	269							17 A	N
249			CB	296							18 A	N
2HVC*DMPF 250			ASB	247							5 A	N
2HVR*DMPF 34			RB	201							63 A	Y

PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

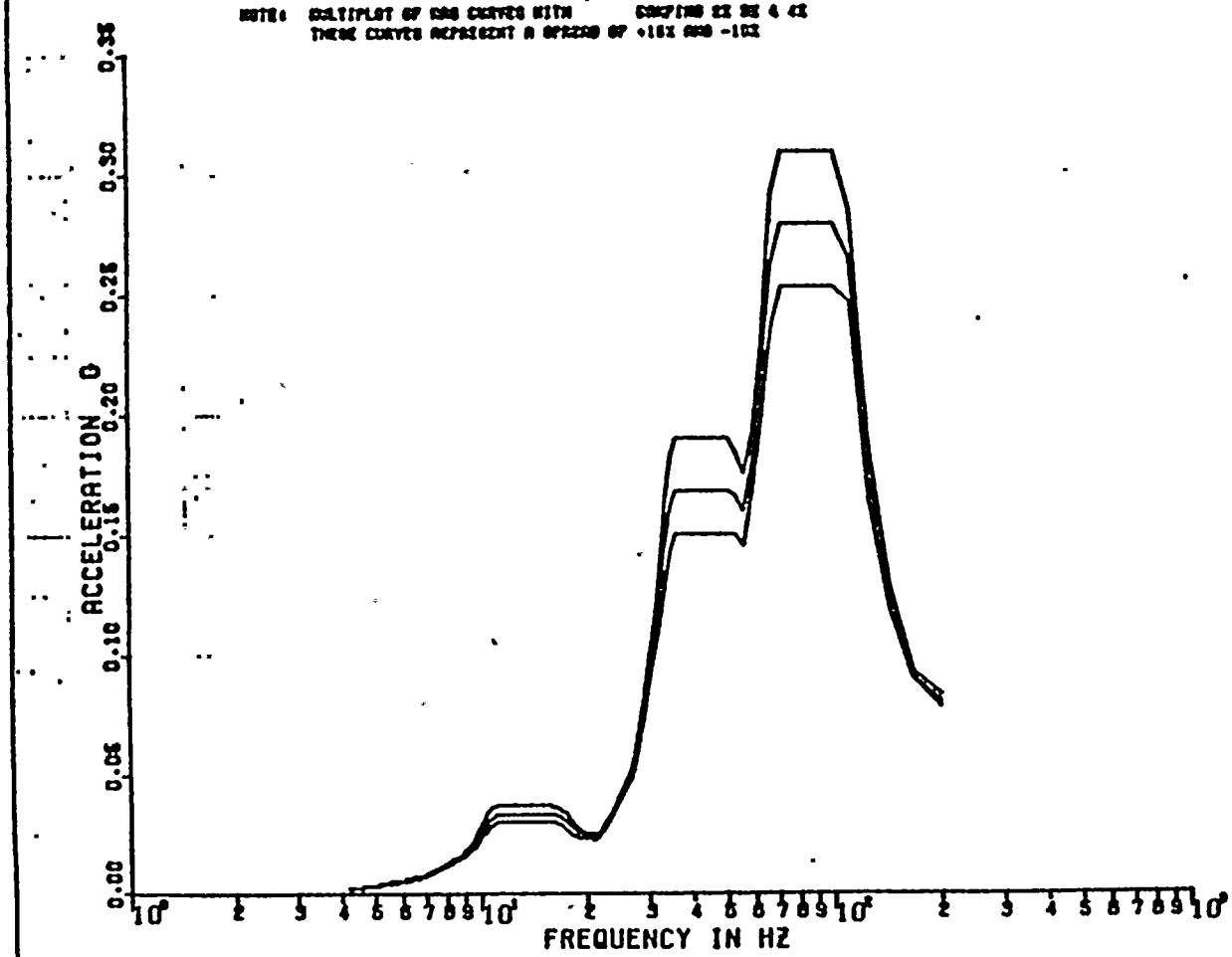
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION SECONDARY CONT. (ELEV 178) AT MAT

MICHAEL H OO

DISK CURVE SET NO.6 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: OVERPLOT OF RMS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -10%



REF 154

MS 1737

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PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

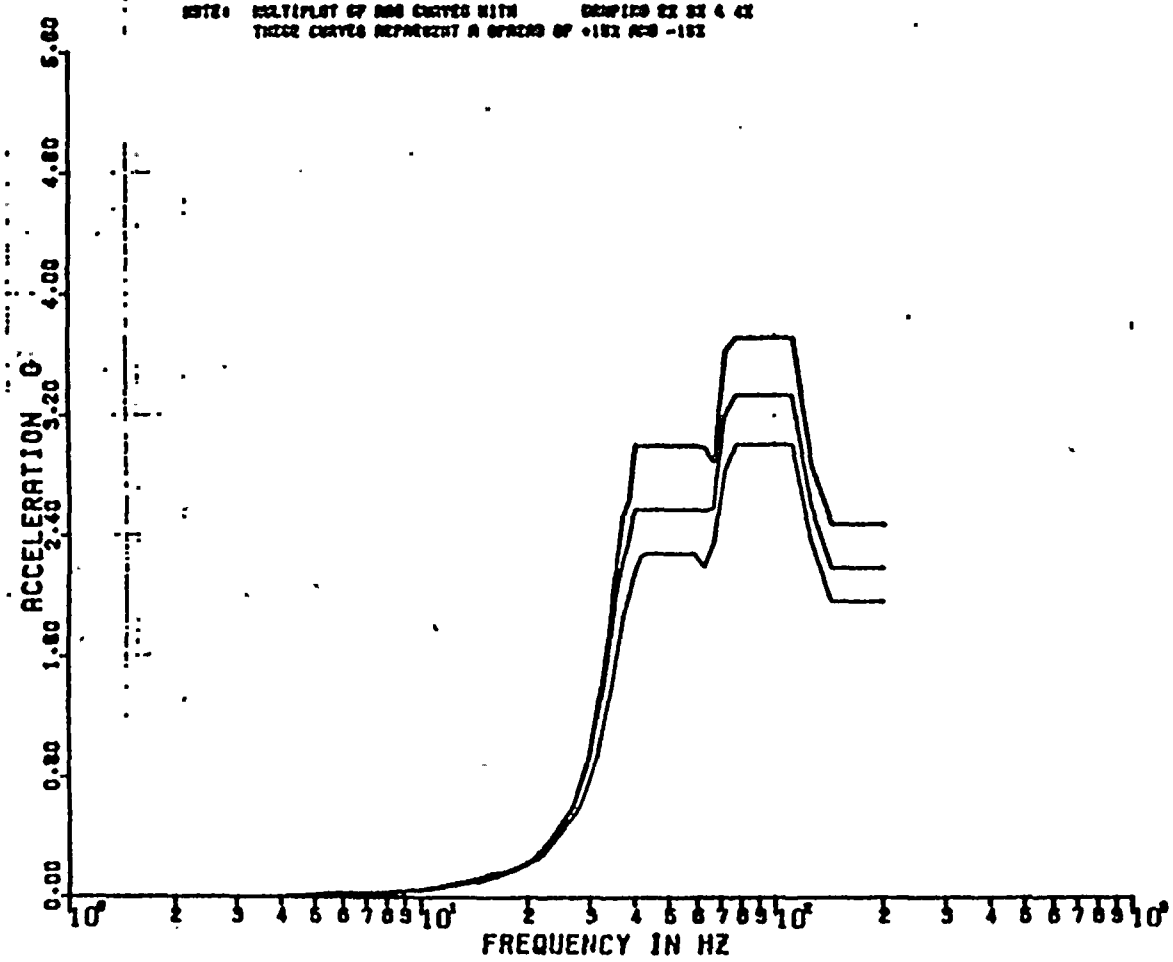
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0

RRS OF ACCELERATION PRIMARY CONT. (ELEV 100.0 FT)

MICHAEL K 03

DISK CURVE SET NO.7 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 155

MS 1737

PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

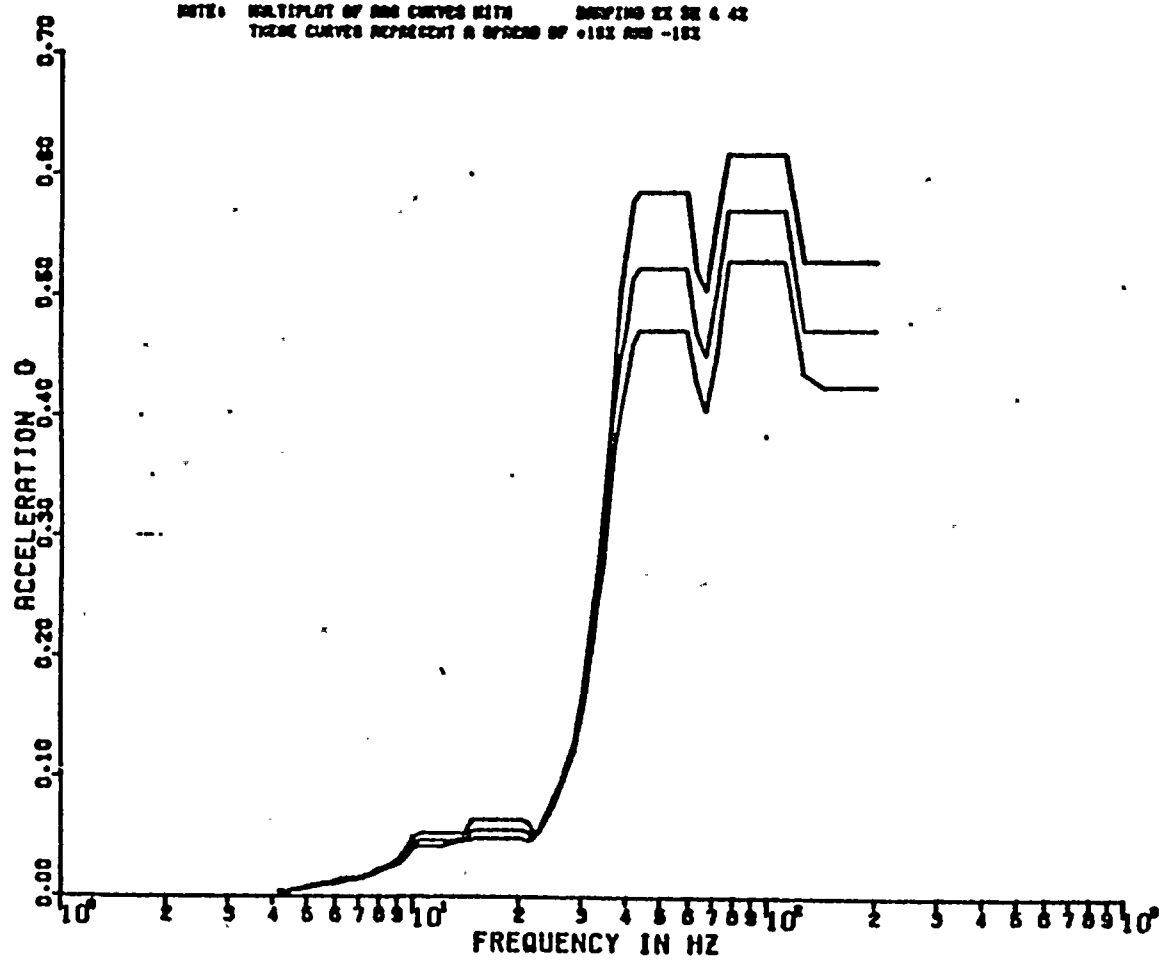
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-D
RMS OF ACCELERATION PRIMARY CONT. (ELEV 180.0 FT)

MICHAEL K DO

DISK CURVE SET NO.7 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING EQ SQ & 42
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 155

MS 1737

P&PECTRA VER 01 LEV 00 CHUGGING LOADING CASE 9 DEC 1992 .

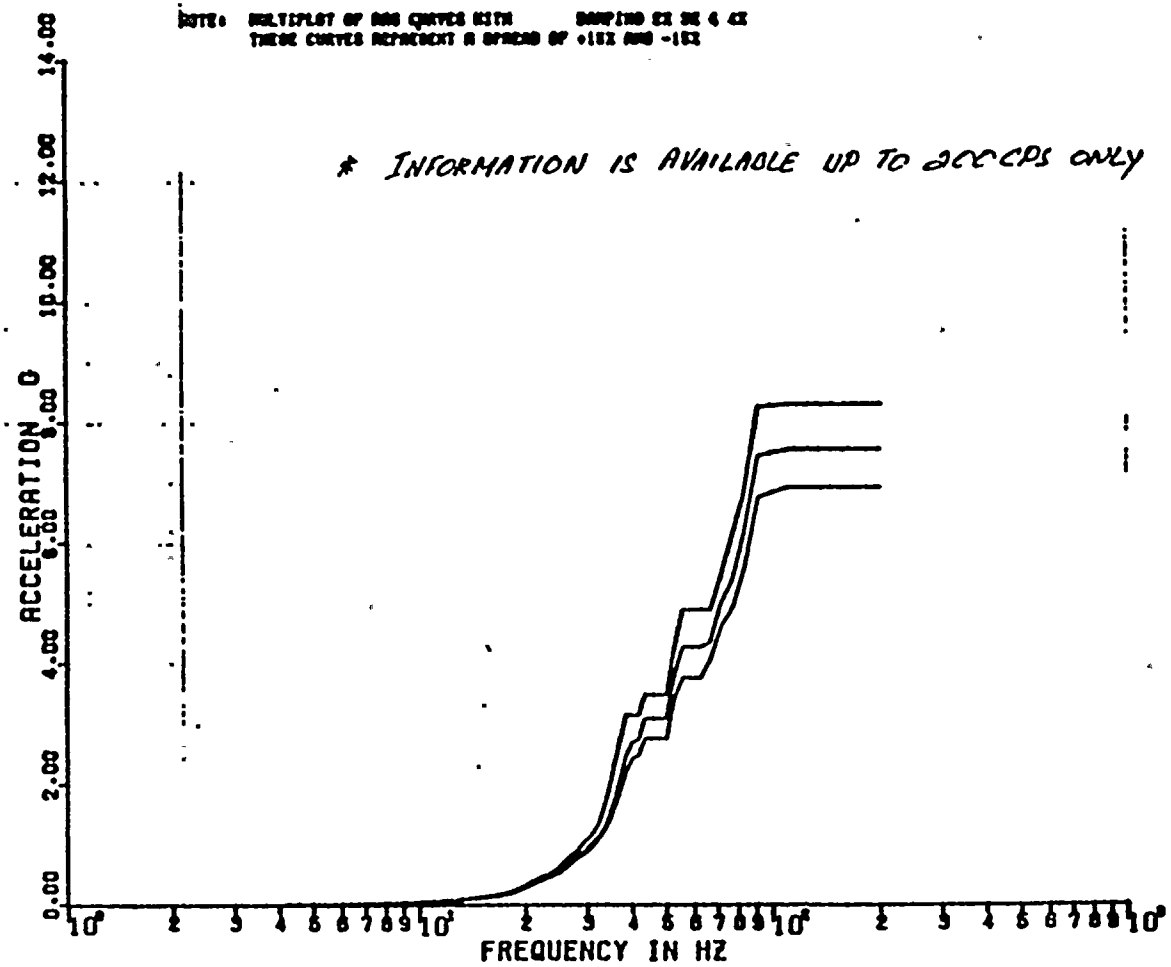
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0

RRS OF ACCELERATION PEDESTAL (ELEV.185.0 FT)

MICHAEL K BO

DISK CURVE SET NO.8 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING EQ TO 4 EQ
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



* INFORMATION IS AVAILABLE UP TO 200 CPS ONLY

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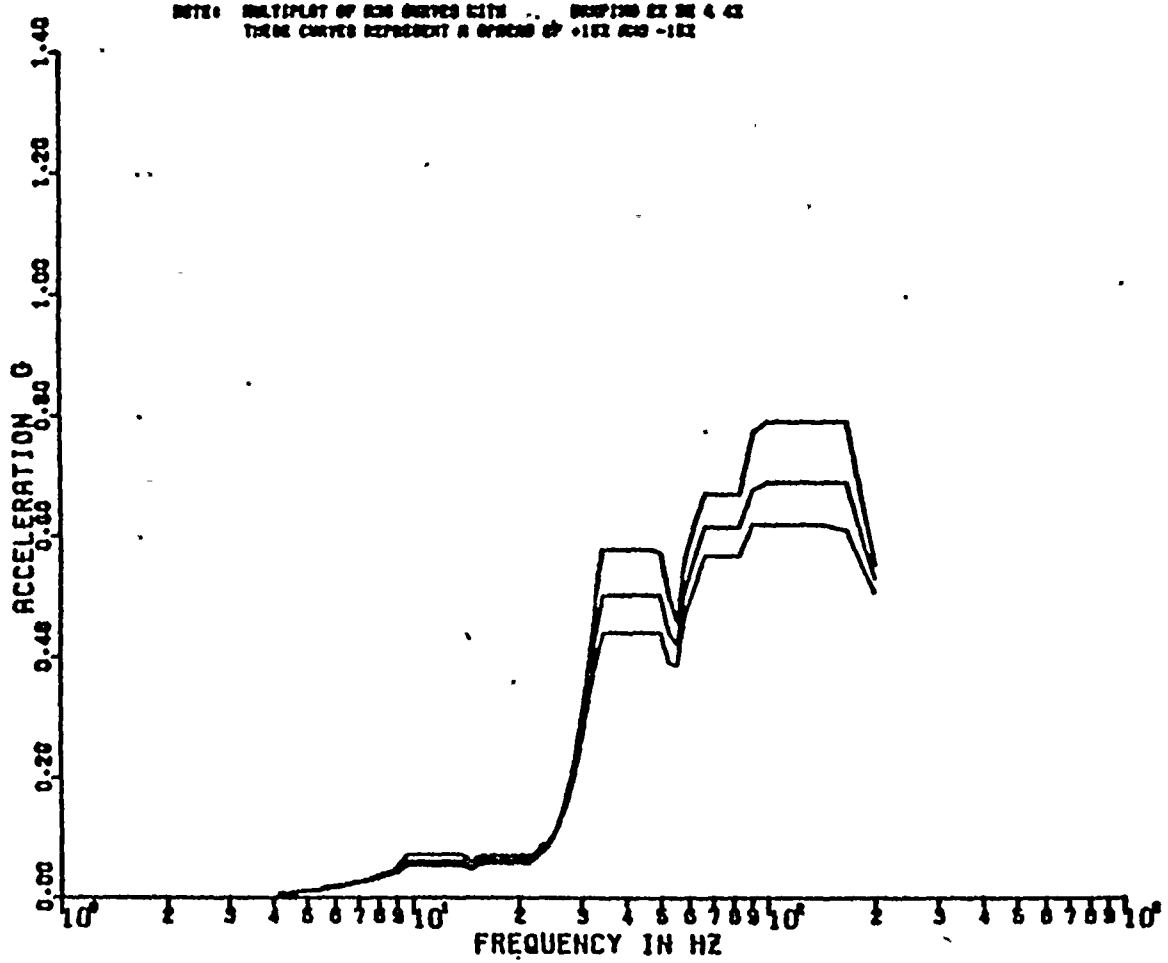
PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-D
RMS OF ACCELERATION PEDESTAL (ELEV.185.6 FT)

MICHAEL K GO

BIBX CURVE DET M9.0 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF 030 CURVES WITH .. DAMPING EX 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 156

MS 1737

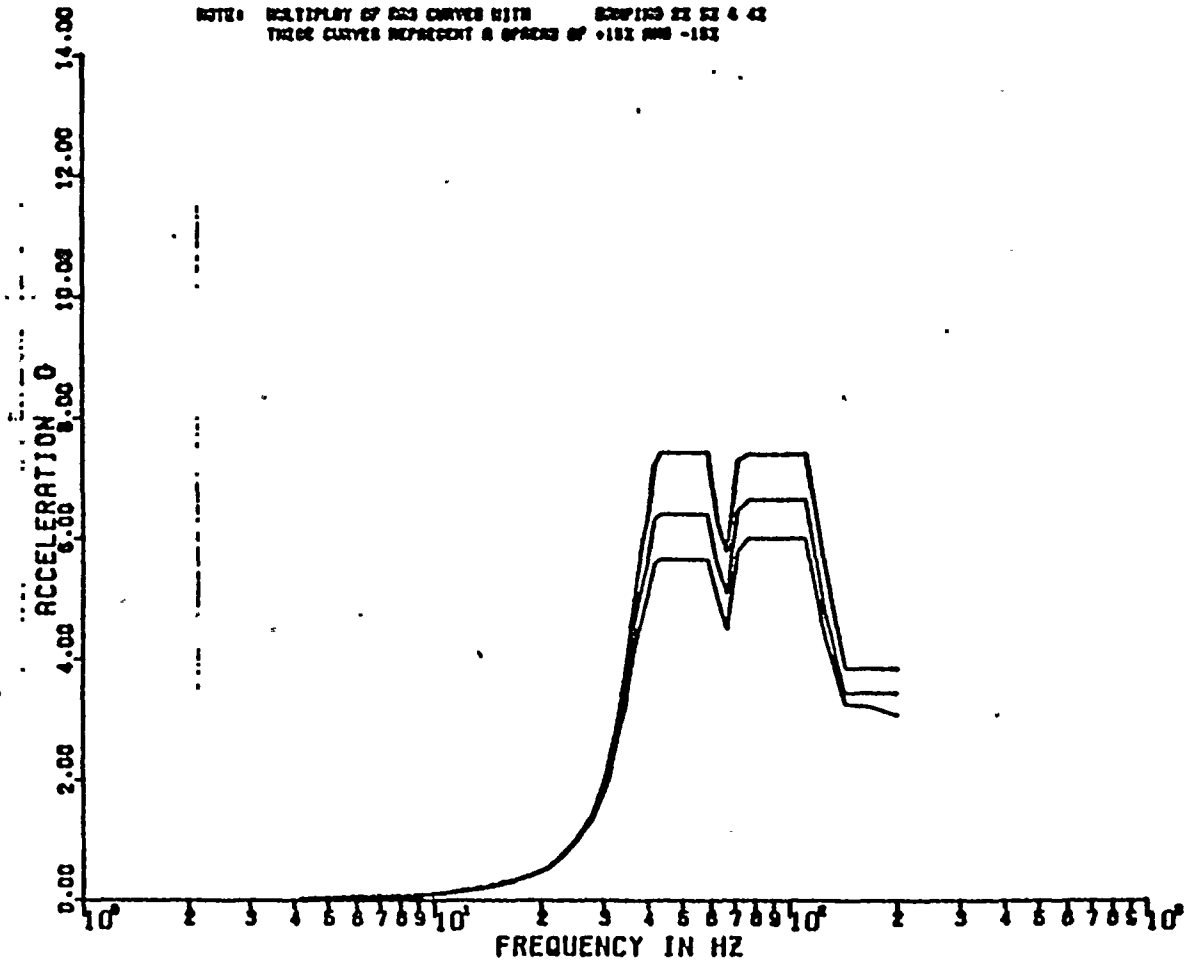
PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION PRIMARY CONT. (ELEV.185.0 FT)

MICHAEL K OO

DIGM CURVE SET NO.0 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLY OF RMS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



MS 1737

2E+157

P&PECTRA VER 01 LEV 00 CHUGGING LOADING CASE 9 DEC 1982

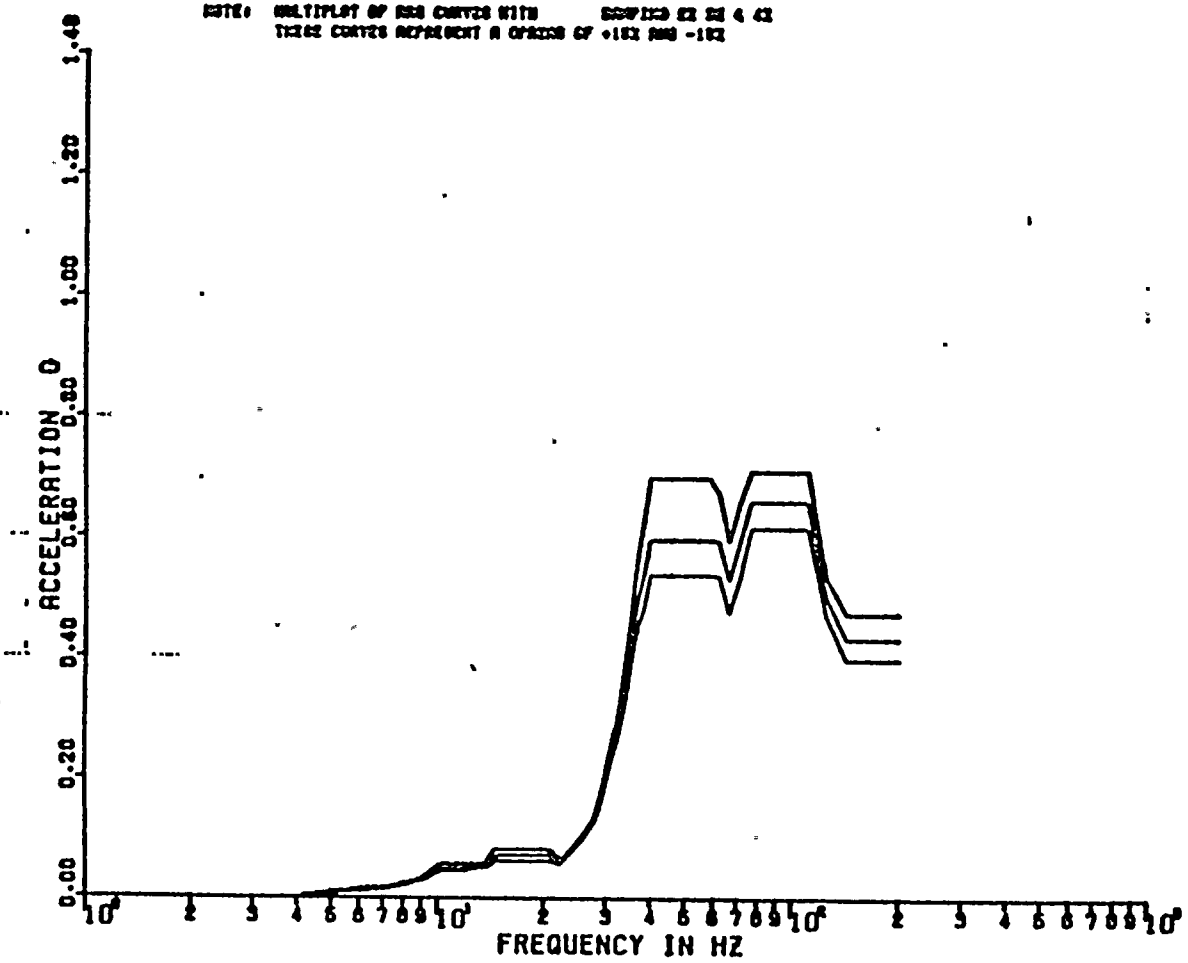
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RRS OF ACCELERATION PRIMARY CONT. (ELEV.105.0 FT)

MICHAEL K OO

DISK CURVE SET NO.9 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH SCAPPED EX SE & EX
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



MS 1737

REF 157

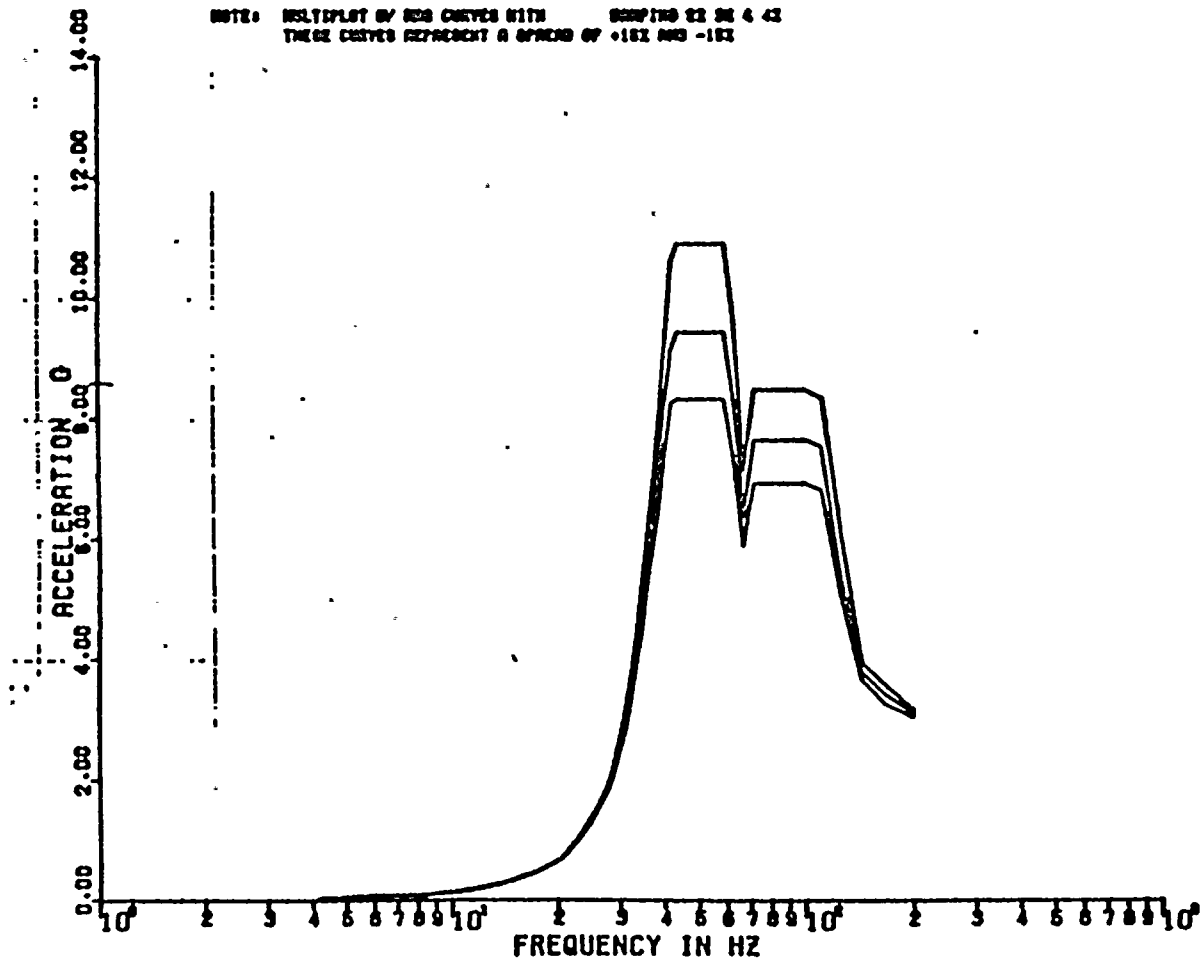
PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 8 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RRS OF ACCELERATION PRIMARY CONT. (ELEV. 180.4 FT)

MICHAEL K 80

DISK CURVE SET NO.10 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF 3CO CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



MS 1737

REF 158

PWPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

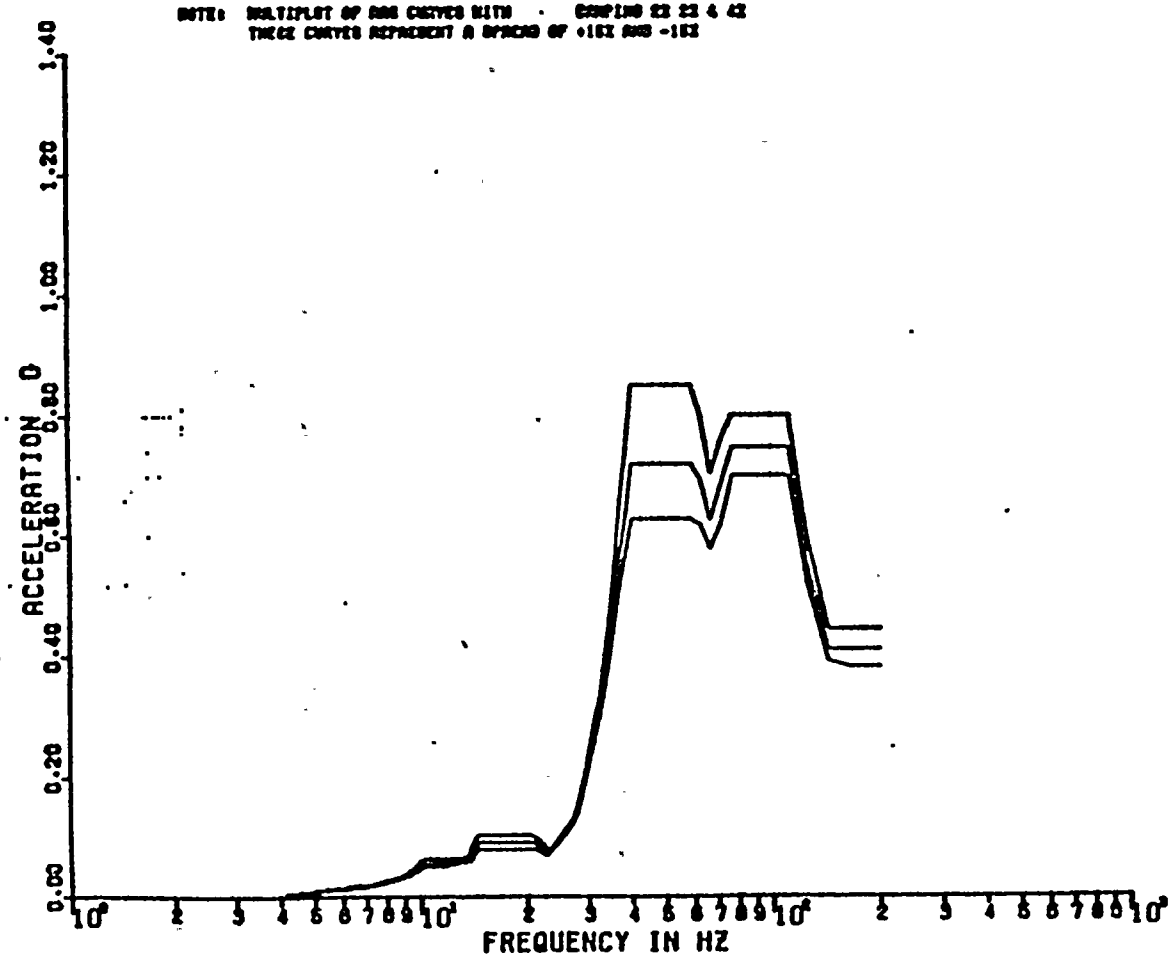
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION PRIMARY CONT. (ELEV. 180.4 FT)

MICHAEL K DO

BICK CURVE SET NO.10 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLIT OF RMS CURVES WITH - DAMPING 22 23 & 42
THESE CURVES REPRESENT A SPACING OF +18% AND -18%



REF 158

MS 1737

MS 1232

REF 159

PSPECTRA VER 01 LEV 00 CHUGGING LOADING CASE 9 DEC 1982

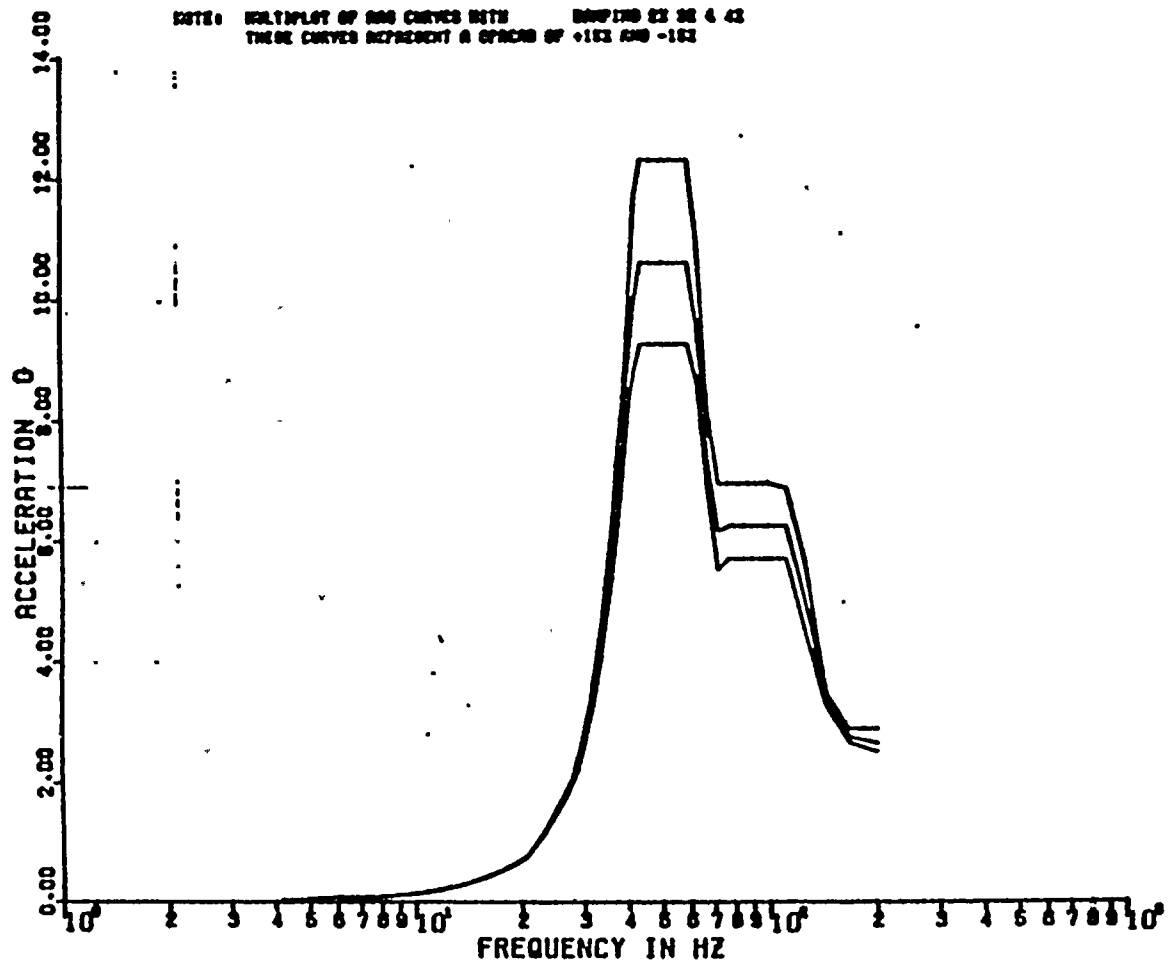
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0

RMS OF ACCELERATION PRIMARY CONT. (ELEV. 186.2 FT)

MICHAEL K 00

DISK CURVE SET NO.11 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING XX 2X & 4X
THESE CURVES REPRESENT A SPACING OF +1SX AND -1SX



PSPECTRA VER 01 LEV 08 CHUOOING LOADING CASE 9 DEC 1982

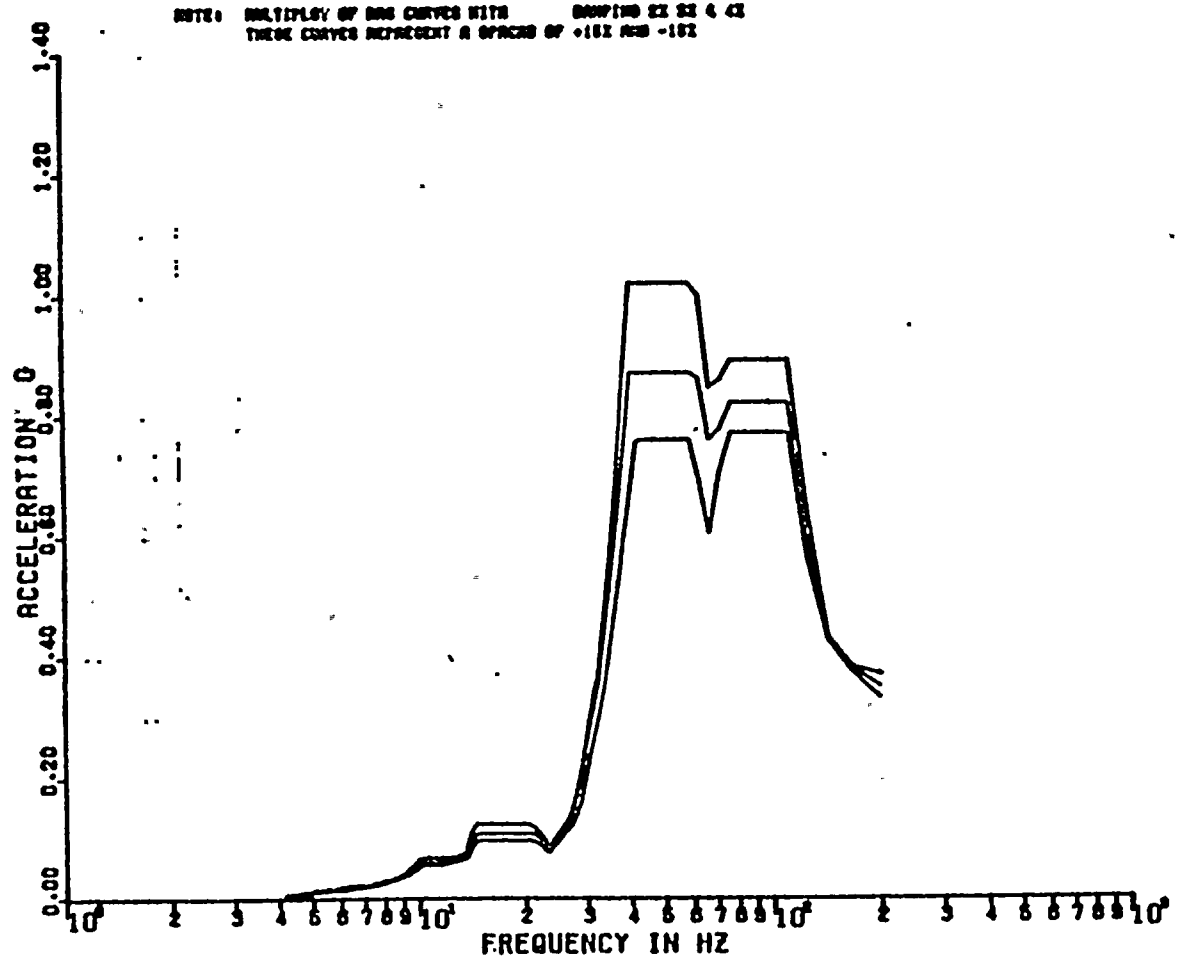
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1797-0
RRS OF ACCELERATION PRIMARY CONT. (ELEV. 195.2 FT)

MICHAEL K OO

DISK CURVE SET NO.11 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLY OF DRS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPACING OF +18% AND -18%



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MS 1732

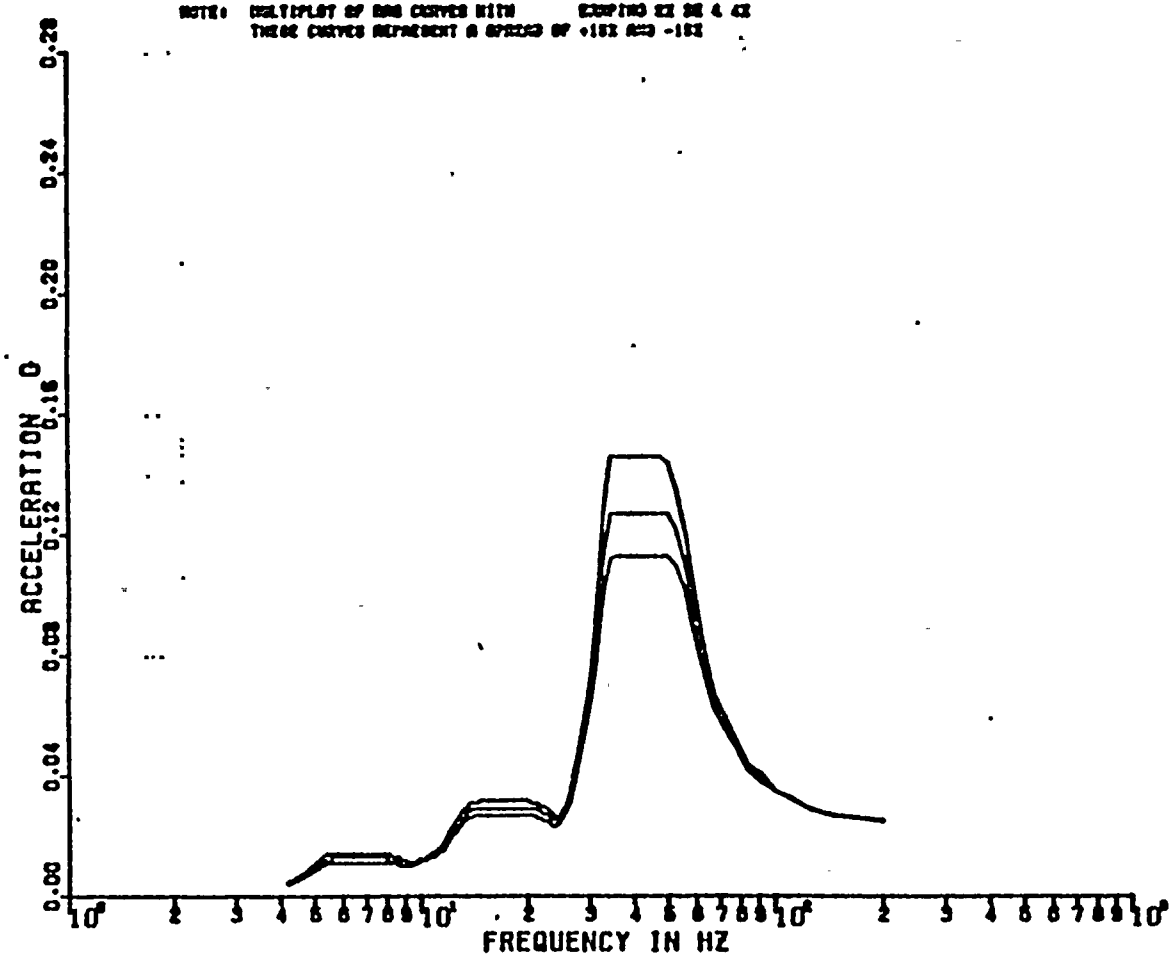
PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION SECONDARY CONT. (ELEV 281.0 FT)

MICHAEL K CO

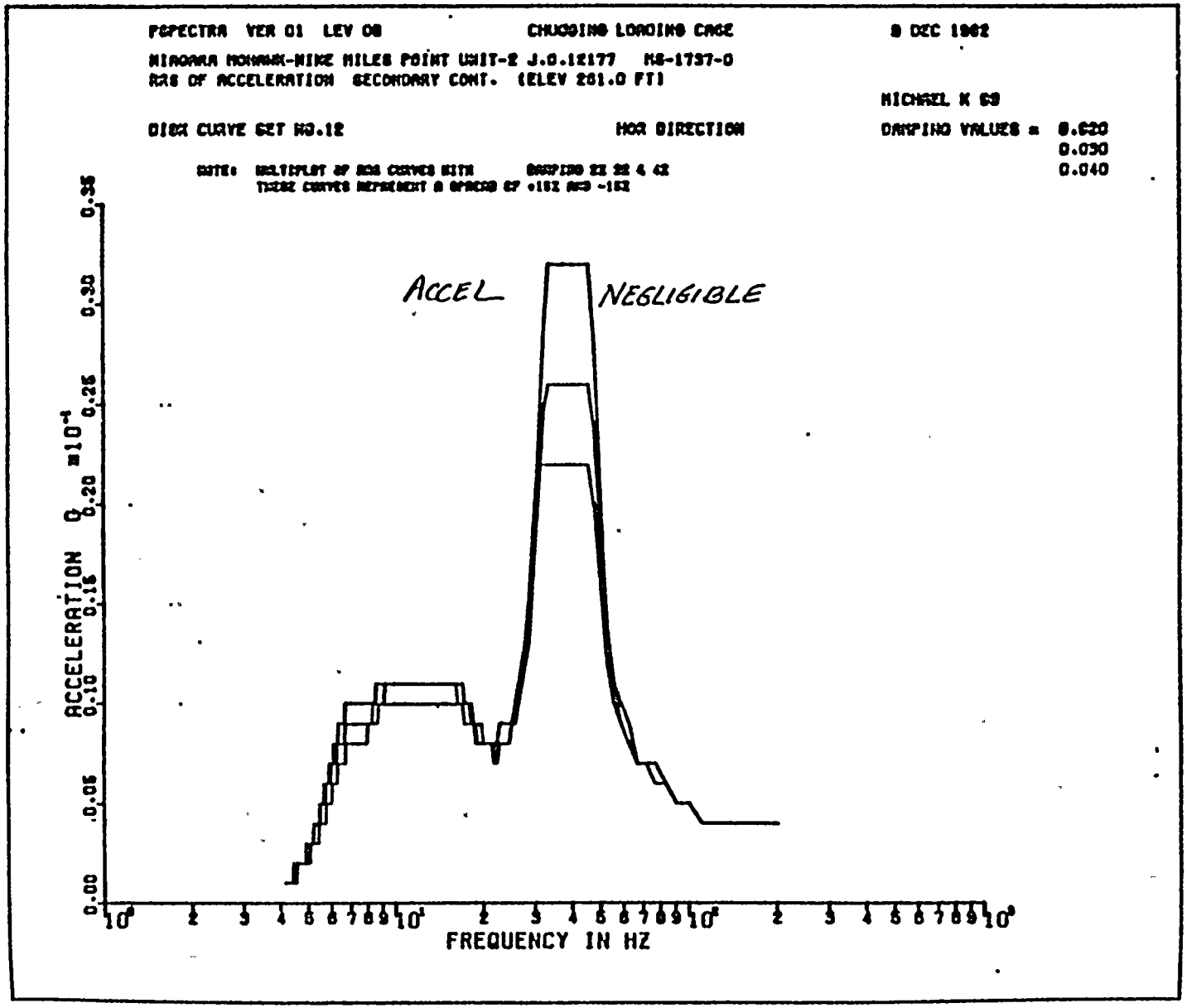
DISK CURVE SET NO.12 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH EXCITING EX DE & EX
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 160

MS 1737



REF 160

MS 1737

PSPECTRA VER 01 LEV 00 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0

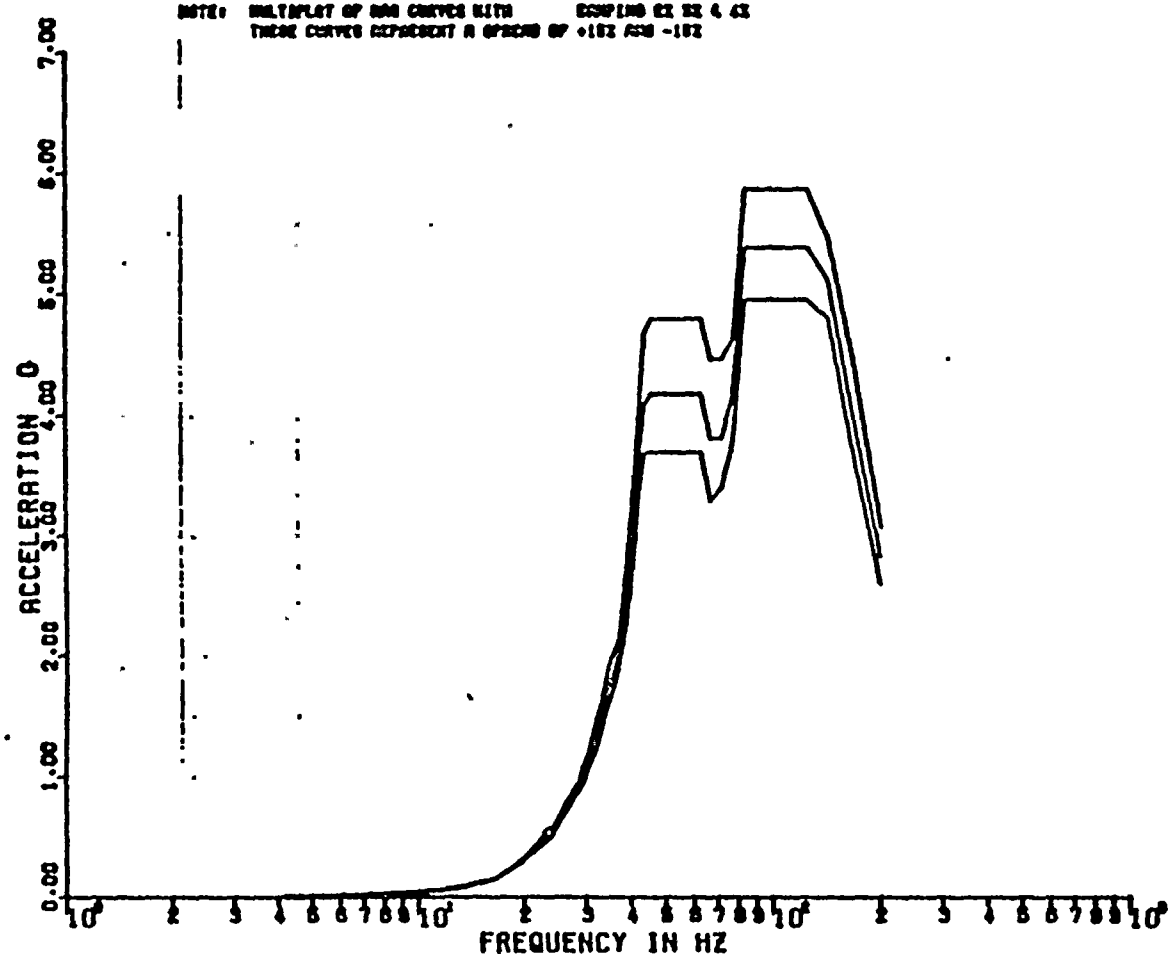
RMS OF ACCELERATION PEDESTAL WATER LEVEL (ELEV. 201.0 FT)

MICHAEL K GO

DISK CURVE SET NO.13 HOR DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLET OF RMS CURVES WITH DAMPING EX 2X & 4X
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



MS 1737

REF 191

PSPECTRA VER 01 LEV 00 CHUGGING LOADING CASE 9 DEC 1982

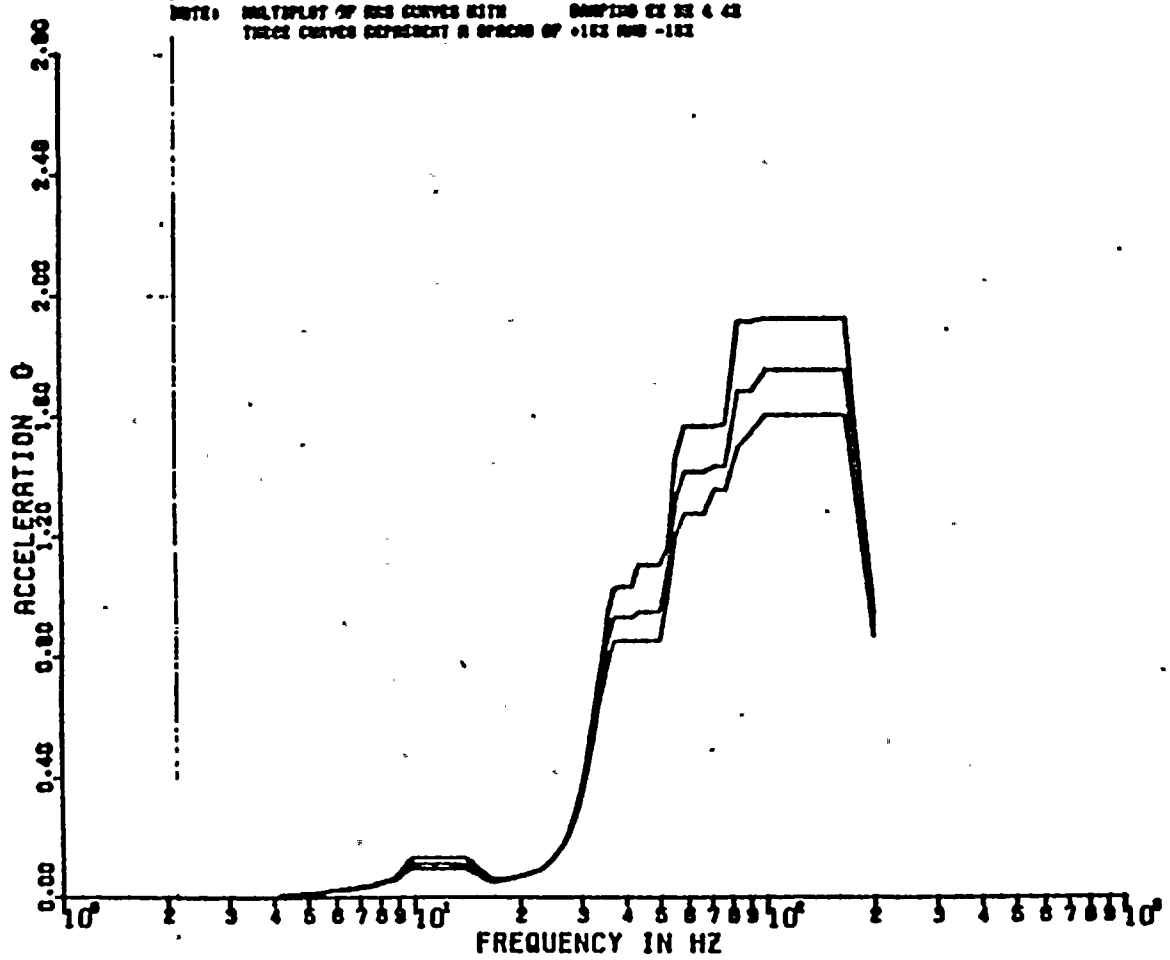
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0

RMS OF ACCELERATION PEDESTAL WATER LEVEL (ELEV. 201.0 FT)

MICHAEL K 00

DISK CURVE SET NO.13 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING EQ TO 4 AS
THESE CURVES REPRESENT A SPACING OF +1SD AND -1SD



REF 161

MS 1737

PSPECTRA VER 01 LEV 09 CHUGGING LOADING CASE 9 DEC 1982

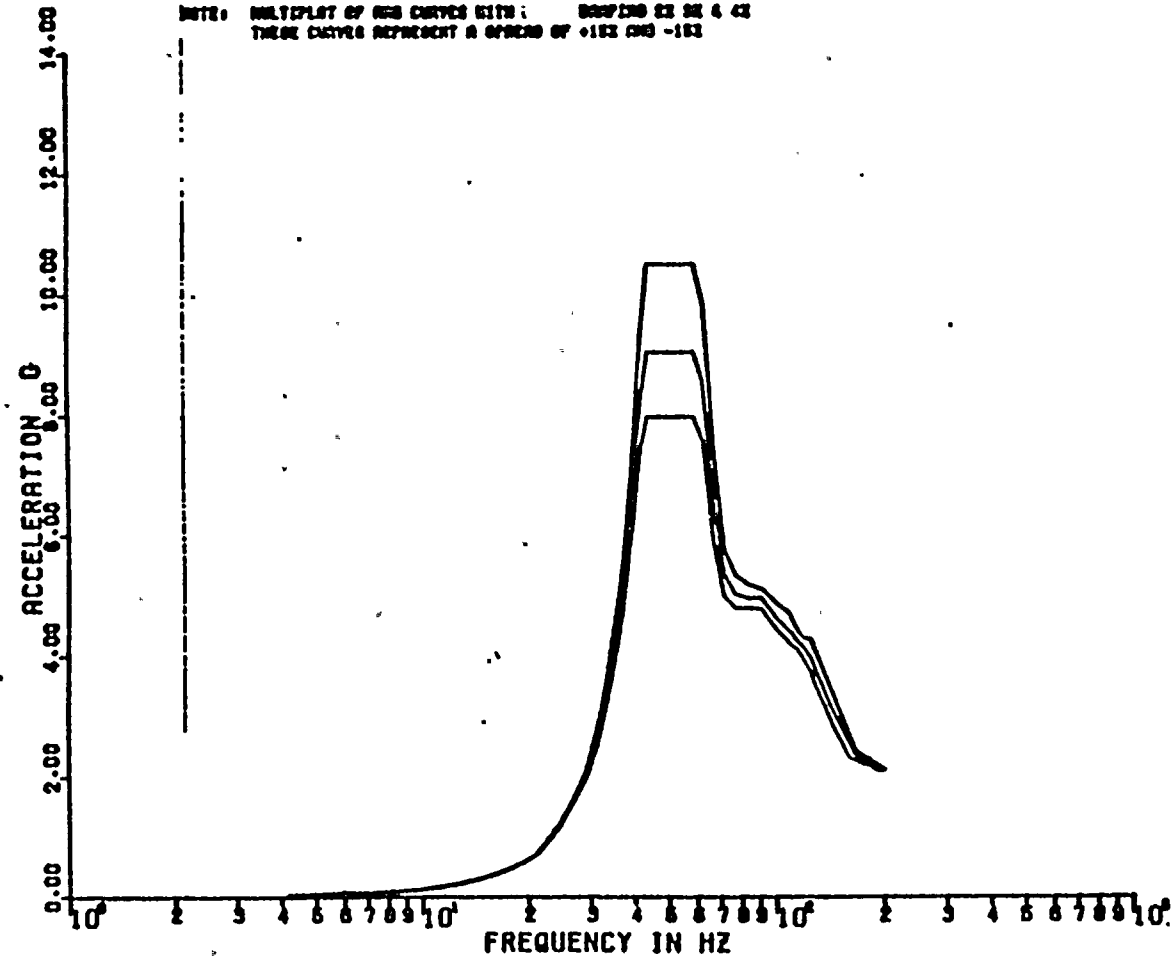
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION PRIM. CONT. N.L. (ELEV. 201.0 FT)

MICHAEL N 00

DISK CURVE SET NO.14 HOR DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH: DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 162

MS 1737

PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

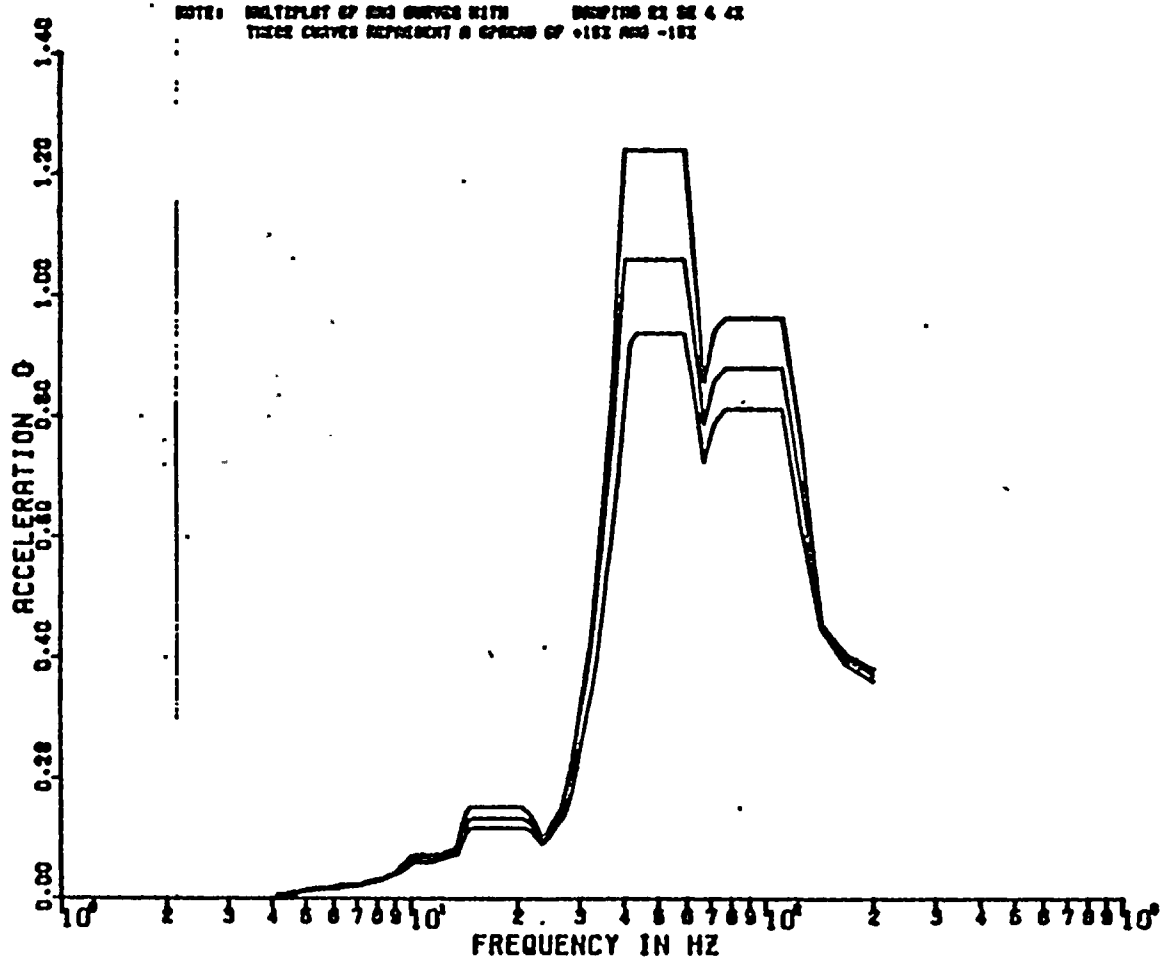
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION PRIM. CONT. N.L. (ELEV. 201.0 FT)

MICHAEL K OO

DICK CURVE SET NO.14 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING EQ SE 4 4%
THESE CURVES REPRESENT A SPREAD OF +1SD AND -1SD



REF 162

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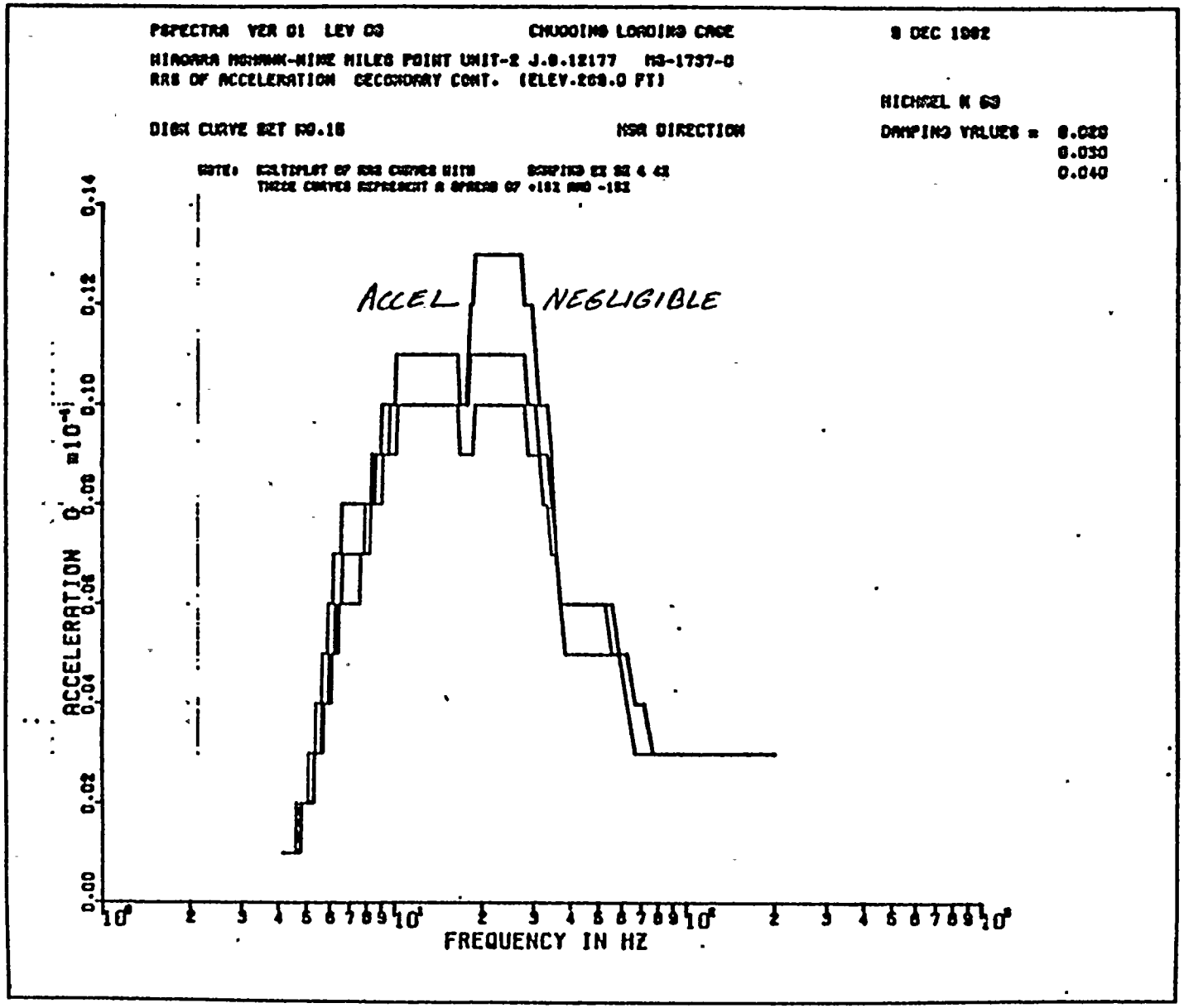

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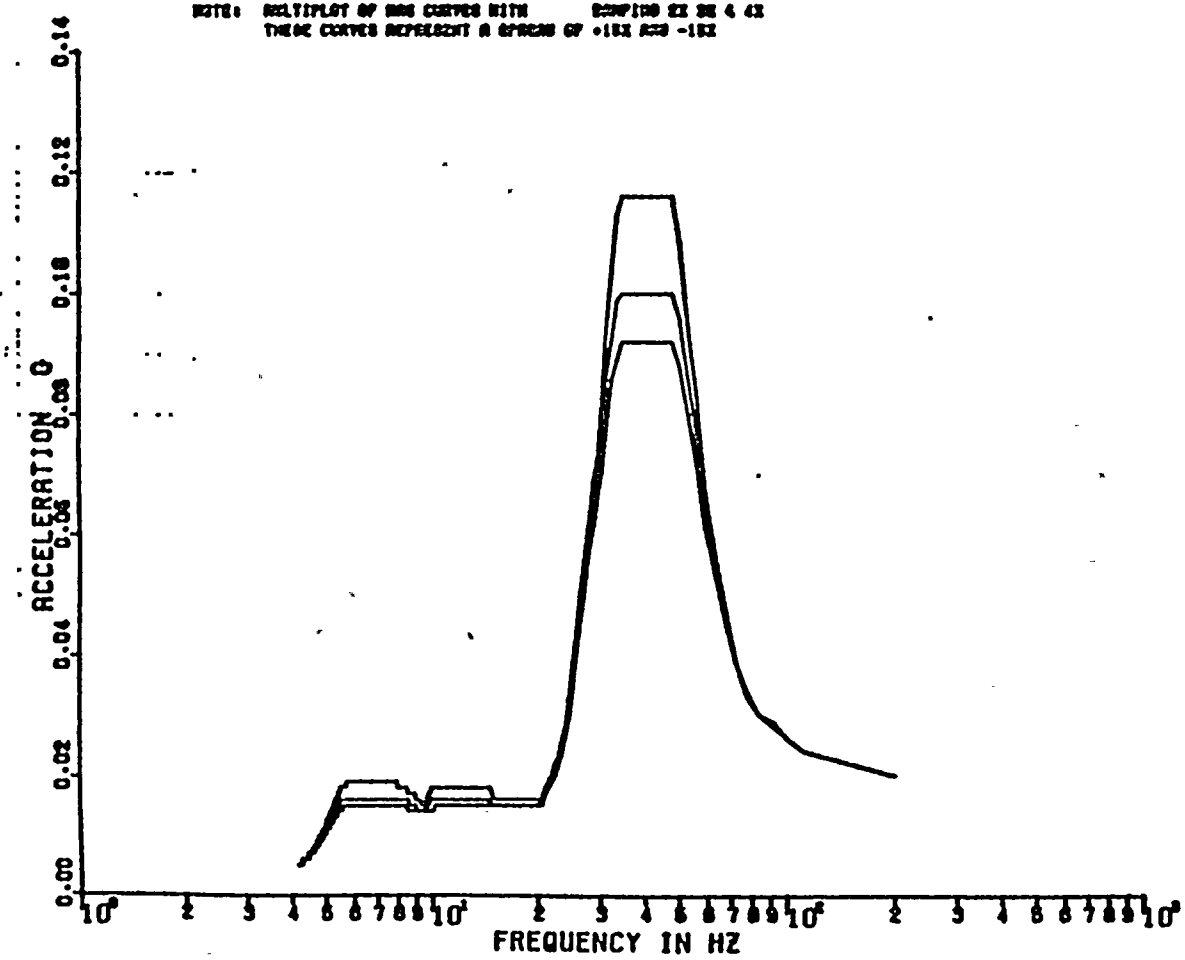
PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RRS OF ACCELERATION SECONDARY CONT. (ELEV.209.0 FT)

MICHAEL K BO

DISK CURVE SET NO.15 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



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MS 1737

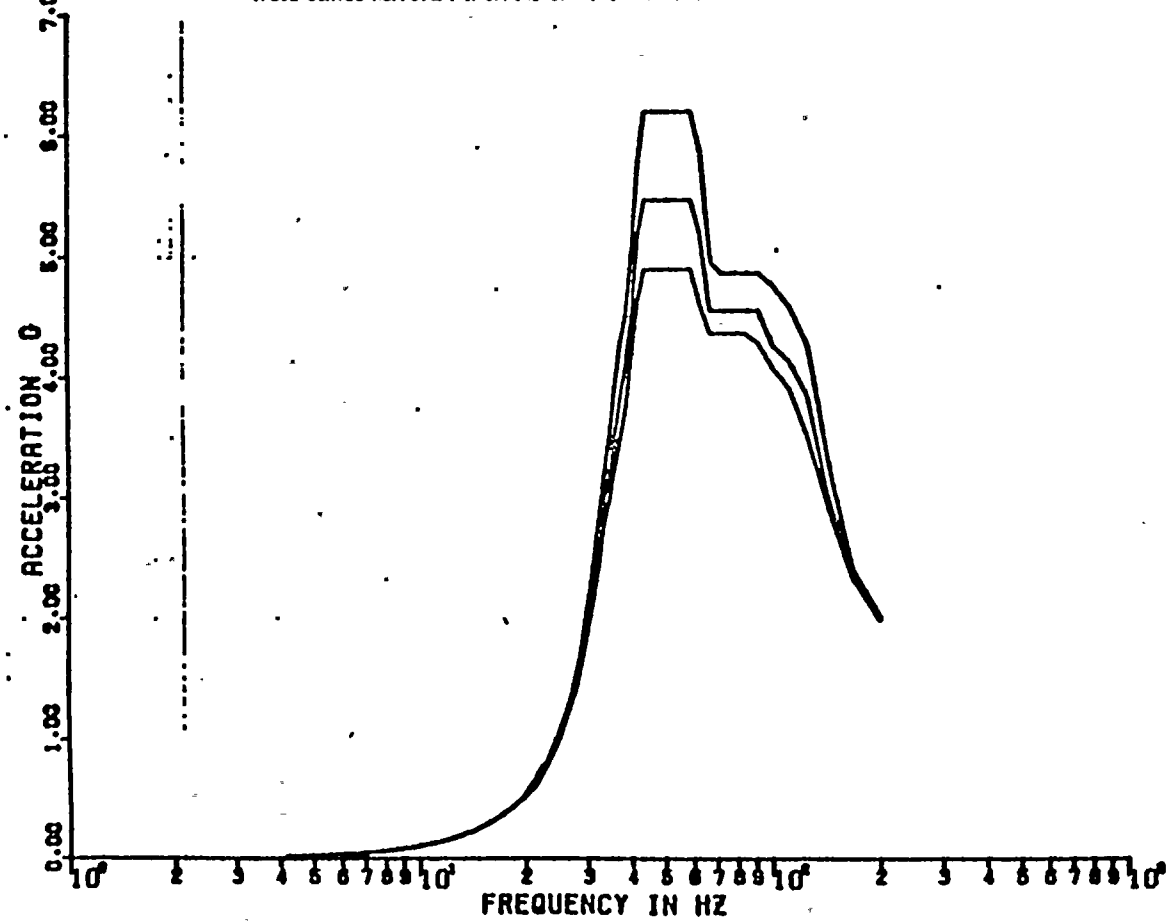
POPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RRS OF ACCELERATION PRIMARY CONT. (ELEV.206.11 FT)

MICHAEL K CO

DISK CURVE SET NO.16 MOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING OF 2% 3% & 4%
THESE CURVES REPRESENT A BROADED OF +10% AND -10%



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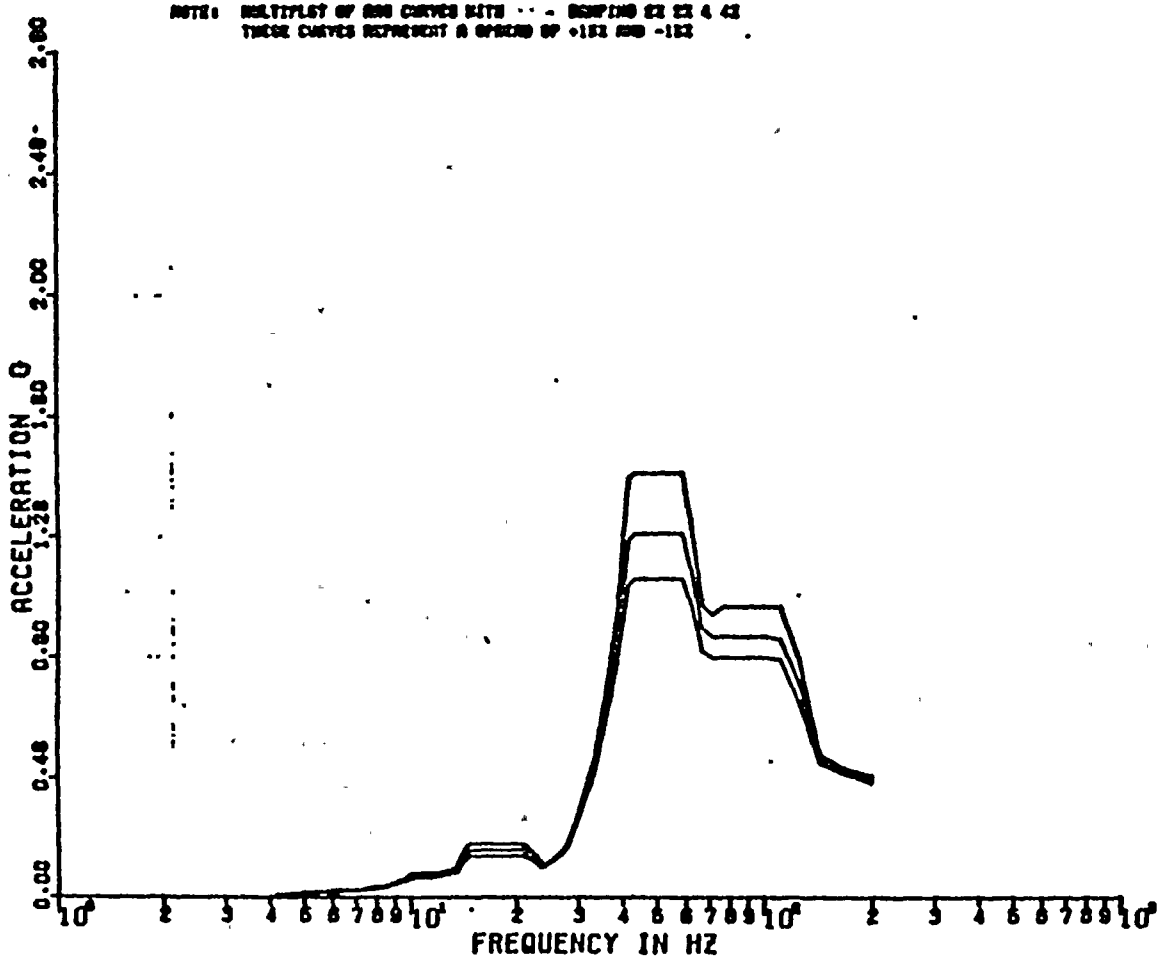
PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RRS OF ACCELERATION PRIMARY CONT. (ELEV.205.11 FT)

MICHAEL K 80

DISK CURVE SET NO.18 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLY OF 800 CURVES WITH -- - DAMPING 22 22 4 42
THESE CURVES REPRESENT A SPACING OF +182 AND -182



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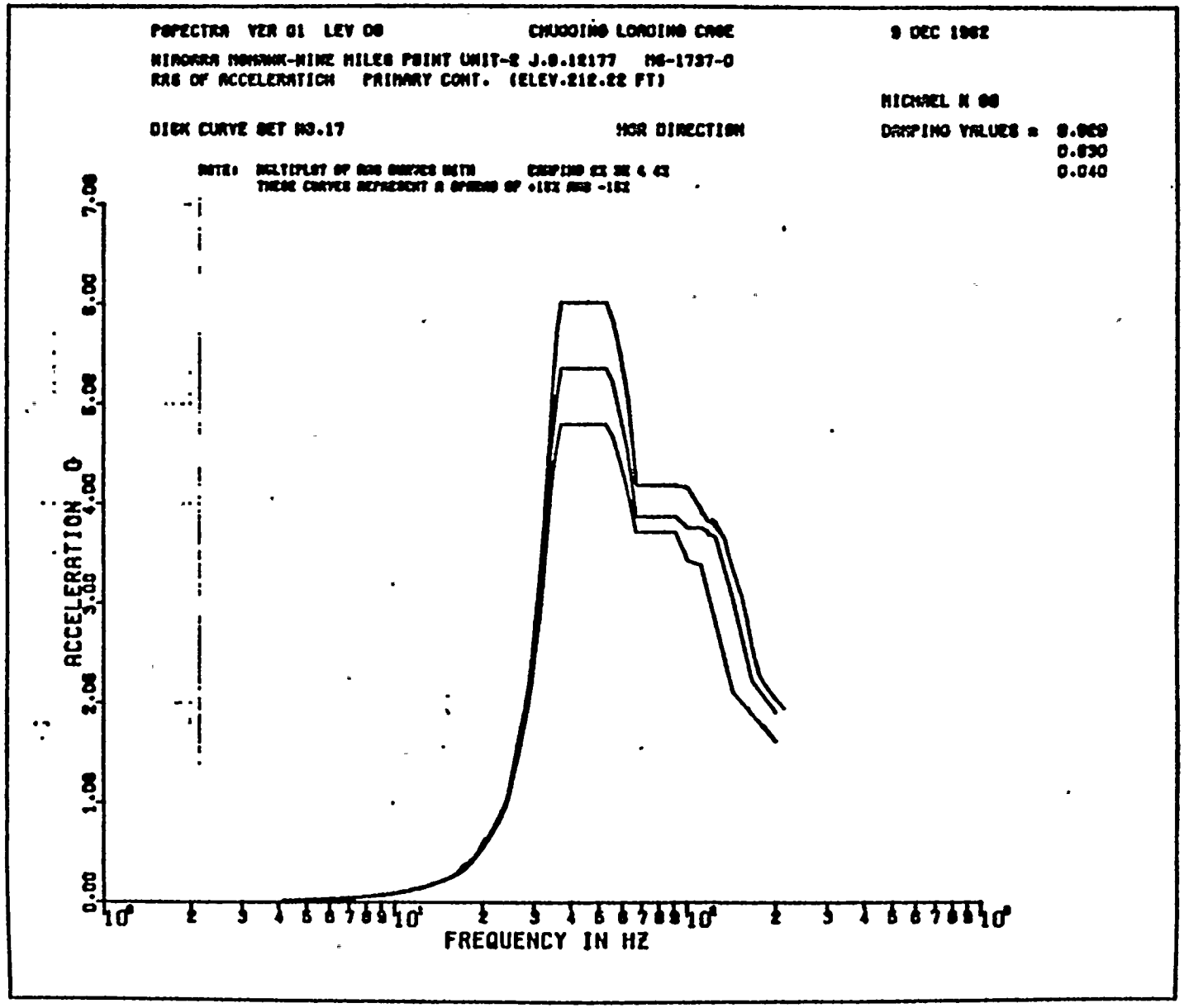
MS 1737



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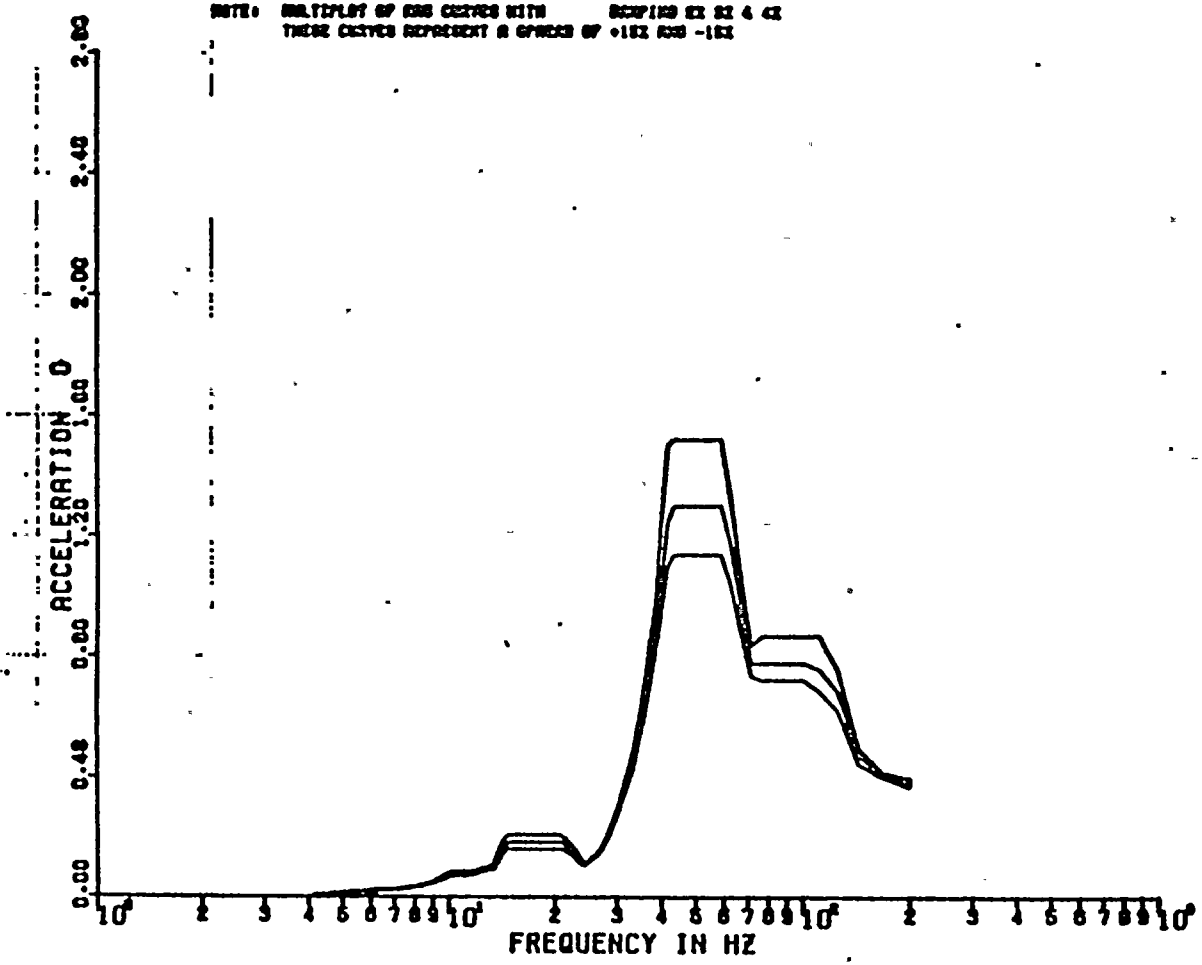
PSPECTRA VER 01 LEV 00 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RRS OF ACCELERATION PRIMARY CONT. (ELEV.212.22 FT)

MICHAEL K 63

DIGX CURVE SET N3.17 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING EX 2X 4 4X
THESE CURVES REPRESENT A SPREAD OF +18% AND -18%



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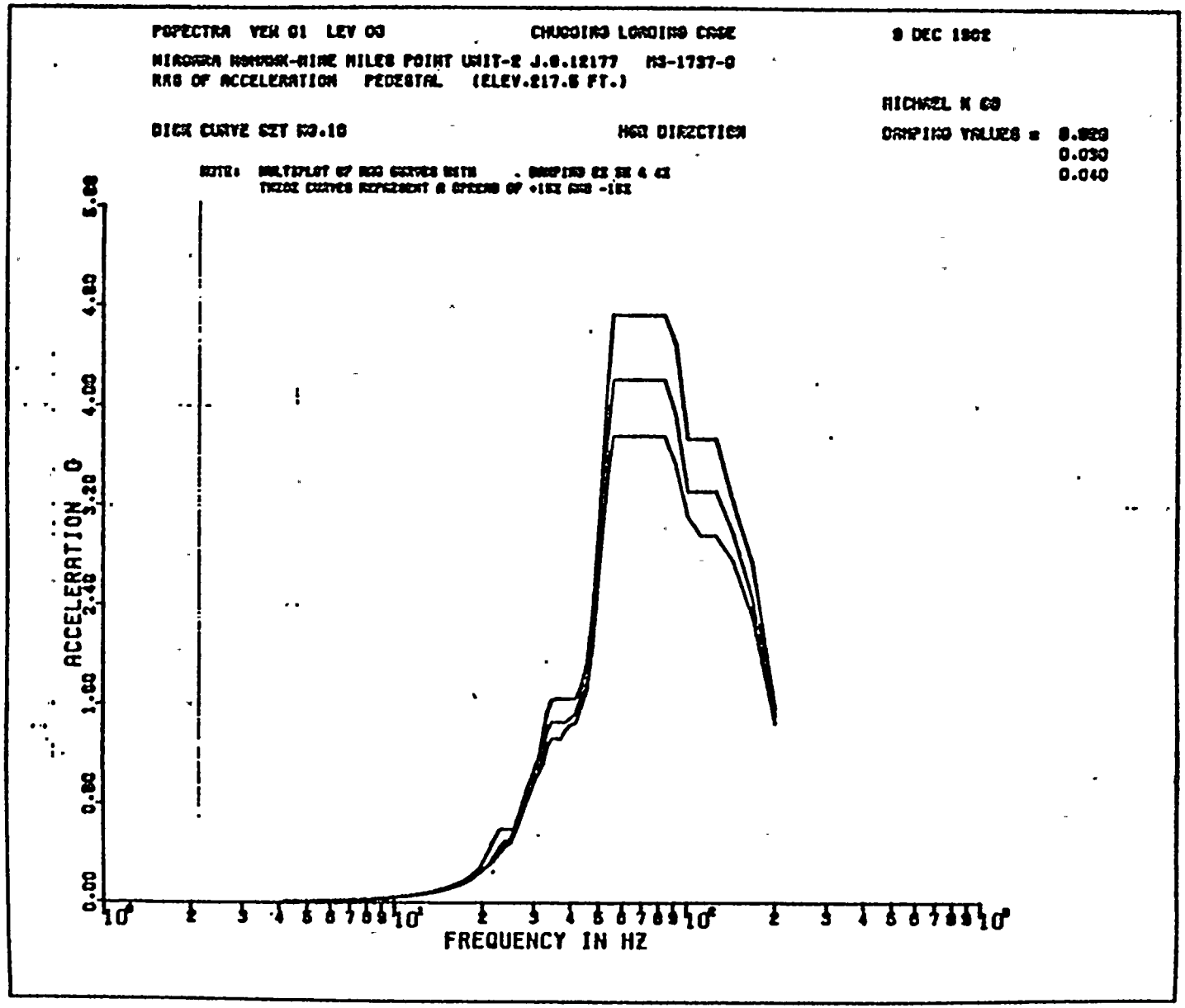

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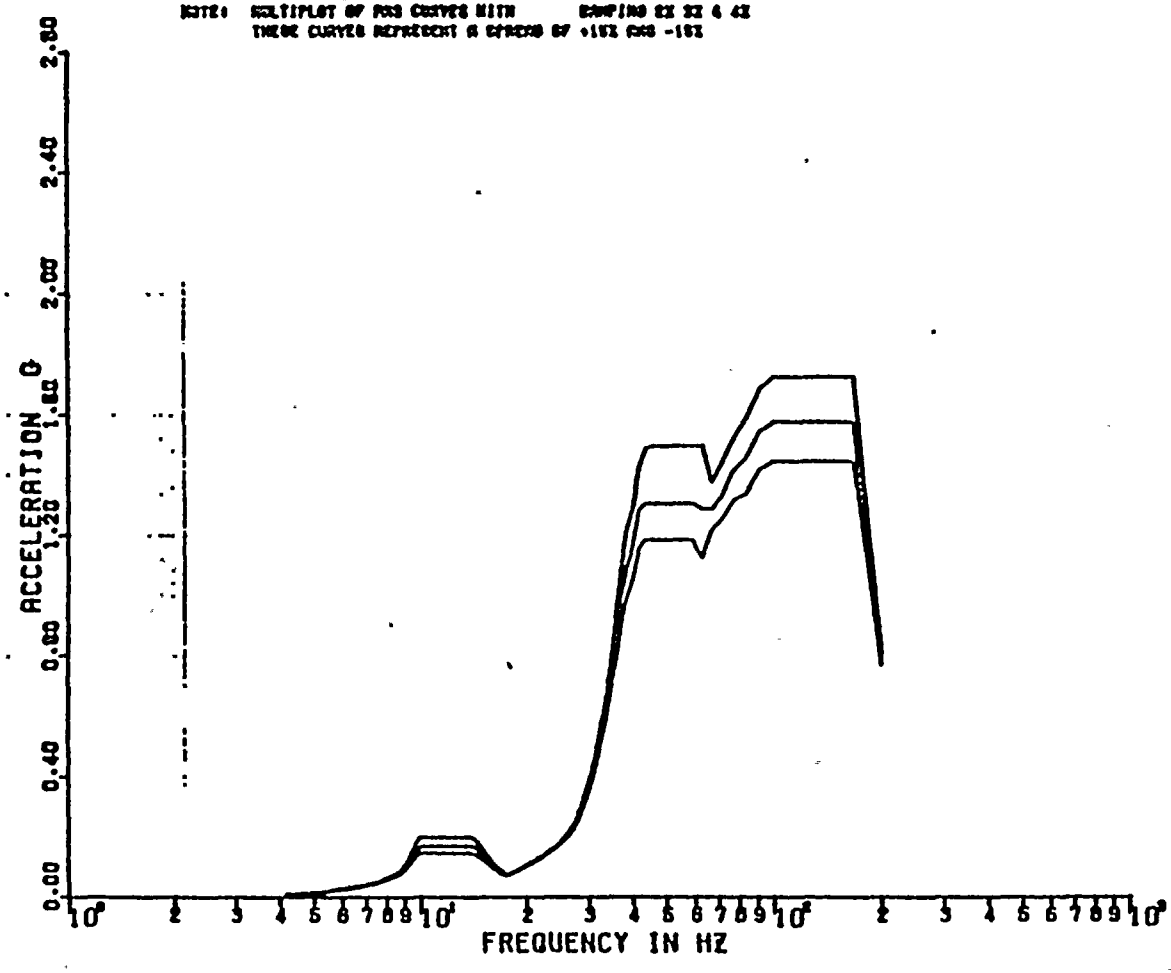
P&SPECTRA VER 01 . LEV 08 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RRG OF ACCELERATION PEDESTAL (ELEV.217.5 FT.)

MICHAEL K OO

DISK CURVE SET NO.10 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF FOUR CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



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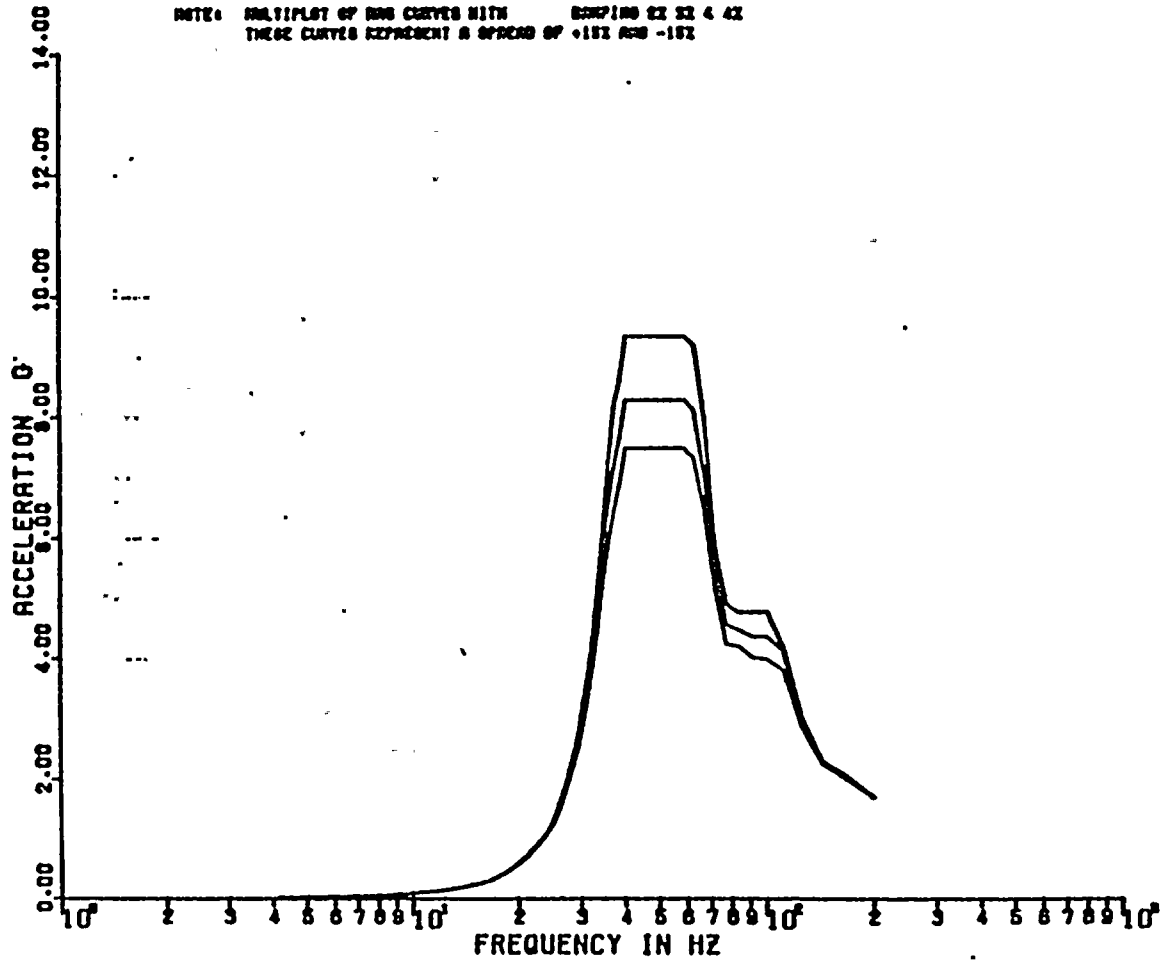
PSPECTRA VER 01 LEV 00 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION PRIMARY CONT. (ELEV. 210.33 FT)

MICHAEL K DO

DISK CURVE SET NO.19 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



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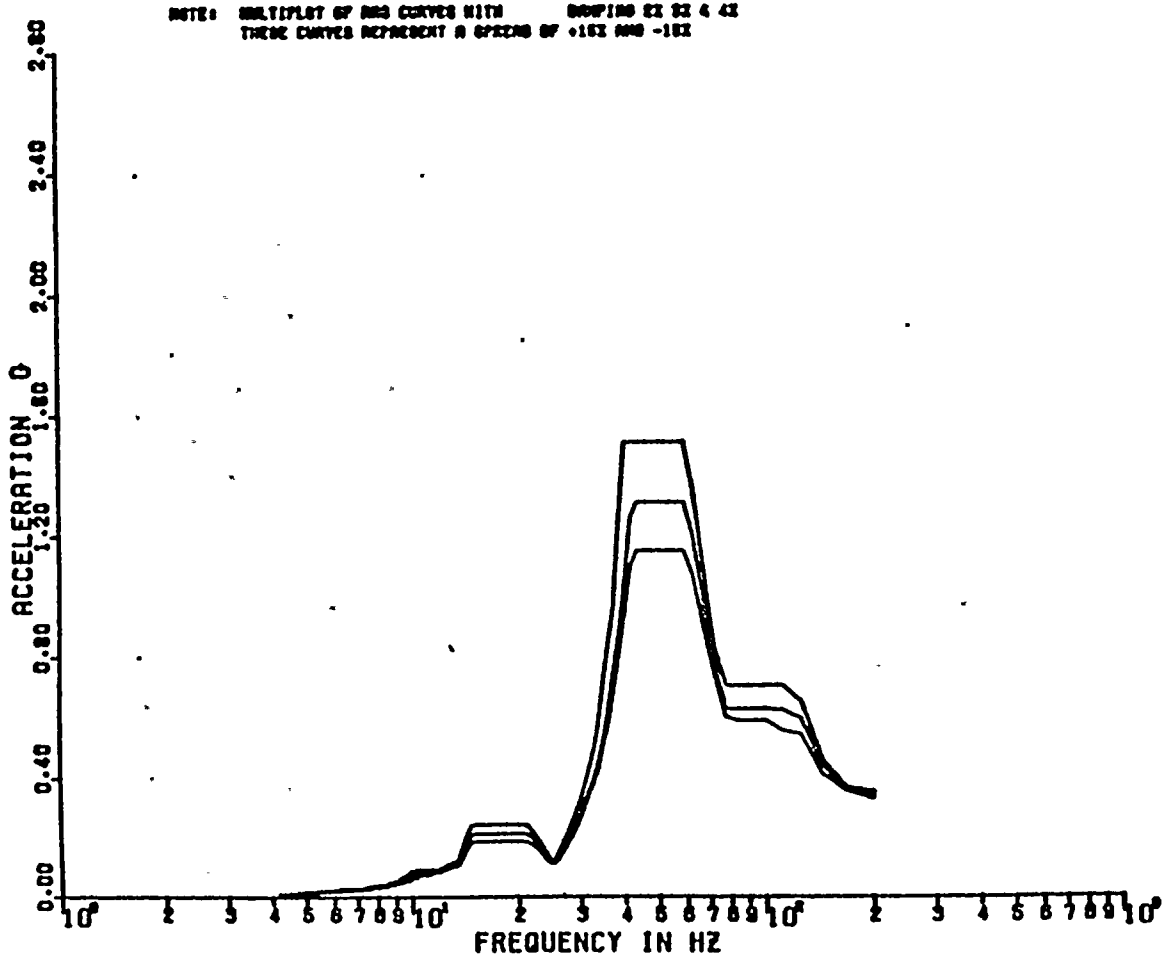
PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION PRIMARY CONT. (ELEV. 218.33 FT)

MICHAEL K GO

DISK CURVE SET NO.18 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPEEDUP OF +15% AND -15%



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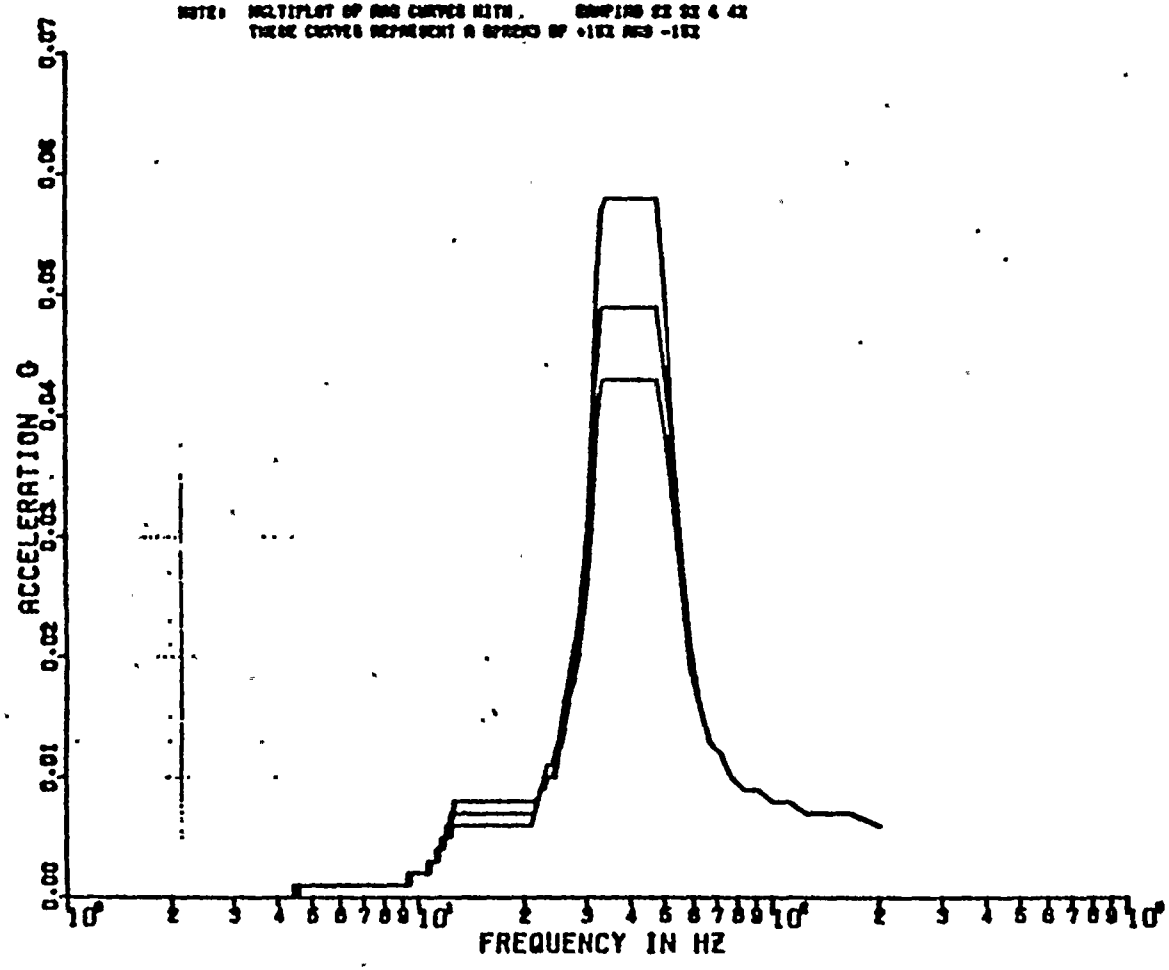
POPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION TOP OF SEC. CONT. (ELEV.388.83 FT)

MICHAEL K OO

DISK CURVE SET NO.20 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLIT OF RMS CURVES WITH , DAMPING XX XX & XX
THESE CURVES REPRESENT A SPREAD OF +1XX AND -1XX



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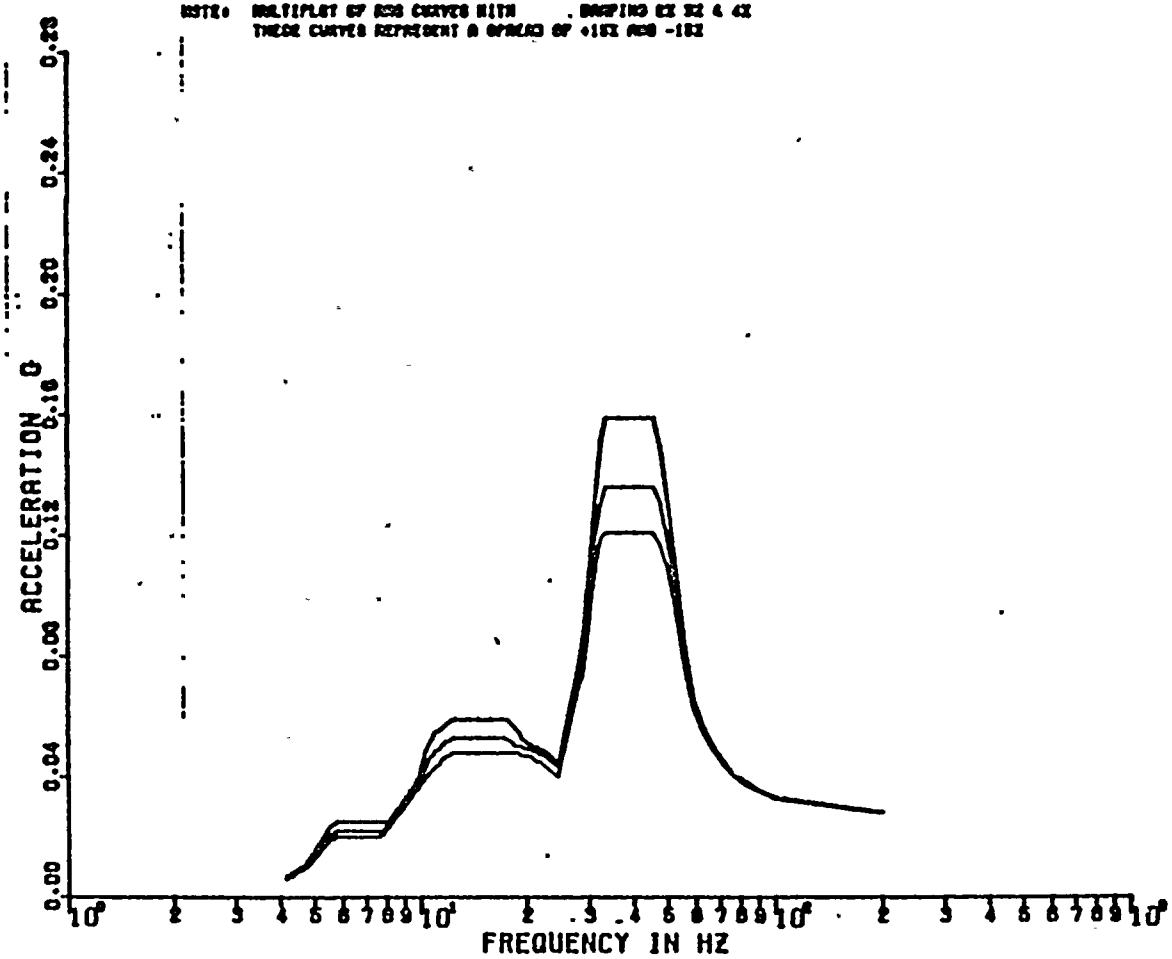
PSPECTRA VER 01 LEV 00 CHUGGING LOADING CASE 9 DEC 1992

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RRS OF ACCELERATION TOP OF SEC. CONT. (ELEV.308.83 FT)

MICHAEL K CO

DISK CURVE SET NO.20 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING EQ 2 & 4 %
THESE CURVES REPRESENT A SPACING OF +15% AND -15%



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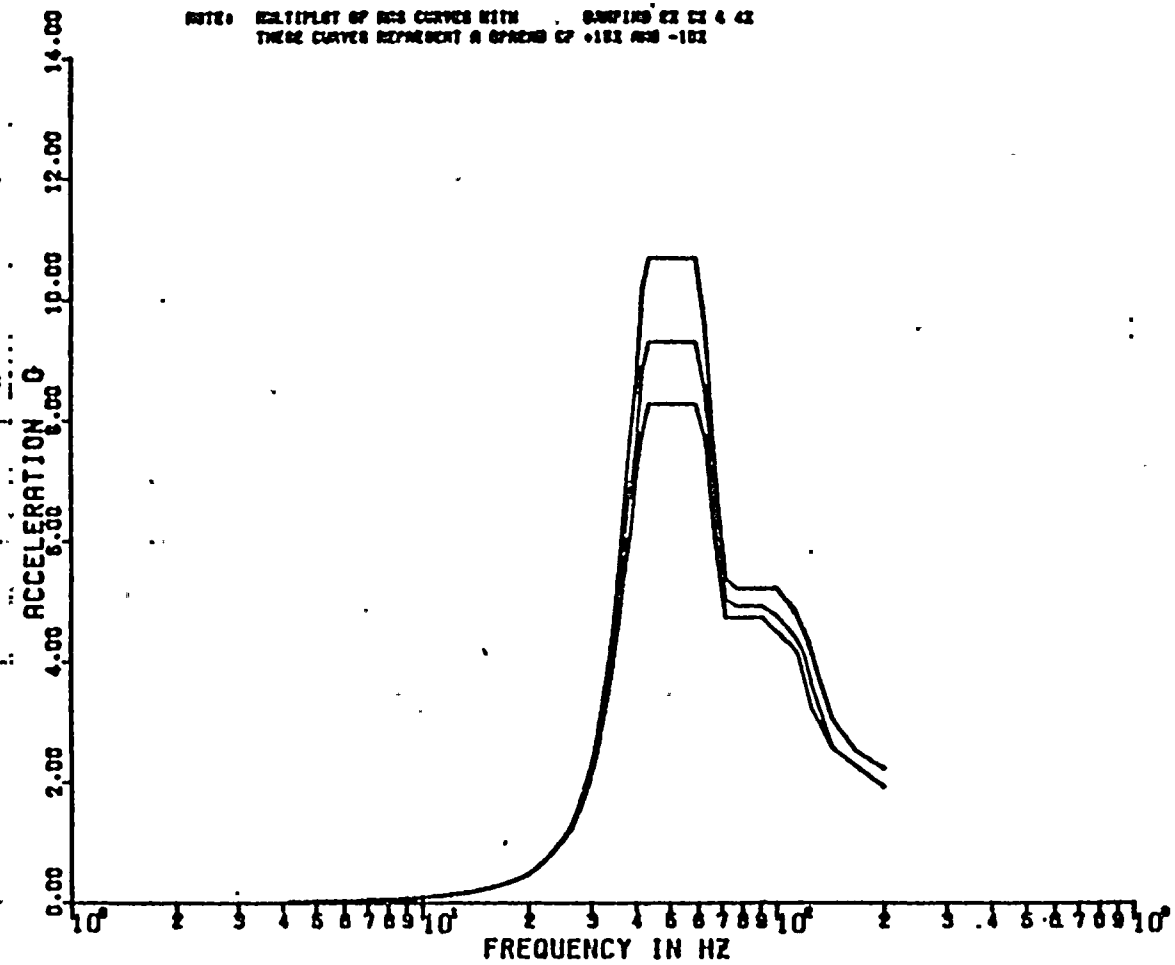
PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 8 DEC 1982

MIRORRA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION PRIMARY CONT. (ELEV.224.00 FT.)

MICHAEL K 80

DISK CURVE SET NO.21 HOR DIRECTION DAMPING VALUES %- 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING EX EX & 4X
THESE CURVES REPRESENT A SPREAD OF +1SI AND -1SI



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PSPECTRA VER 01 LEV 00 CHUGGING LOADING CASE 9 DEC 1982

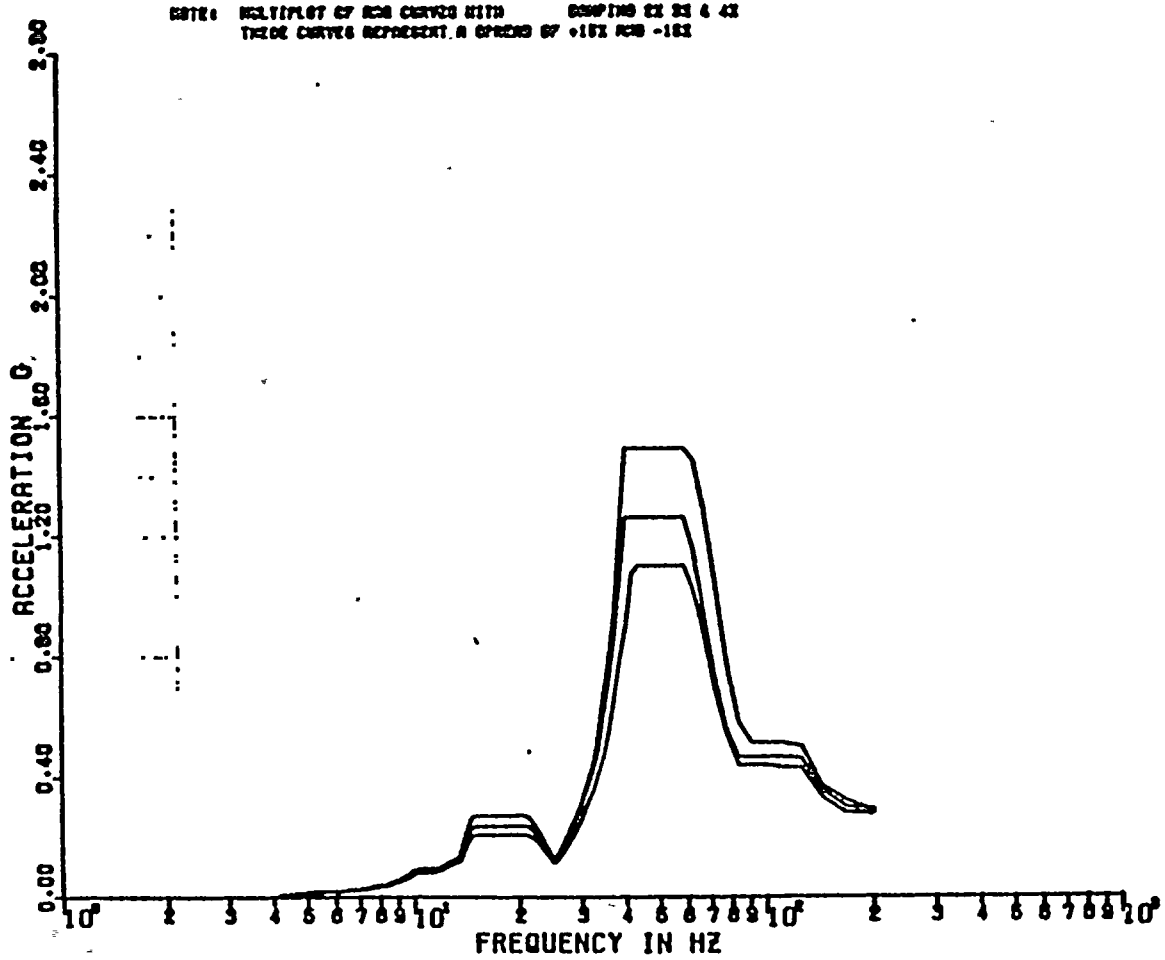
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION PRIMARY CONT. (ELEV.224.00 FT.)

MICHAEL K GO

DISK CURVE SET NO.21 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 169

MS 1737

PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

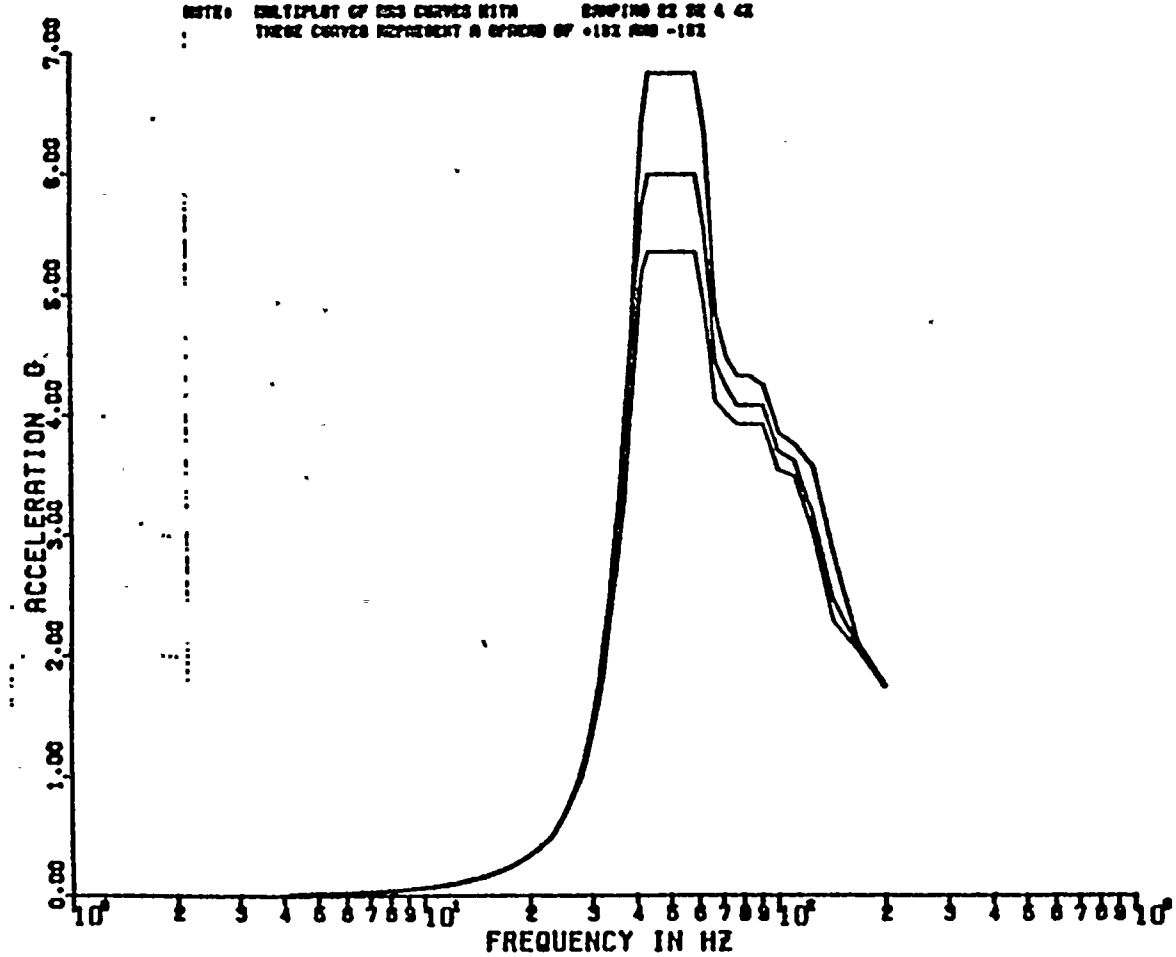
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 RS-1737-0

RMS OF ACCELERATION PRIMARY CONT. (ELEV.231.44 FT)

MICHAEL K GO

DIEX CURVE SET NO.22 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF ESS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 170

MS 1737

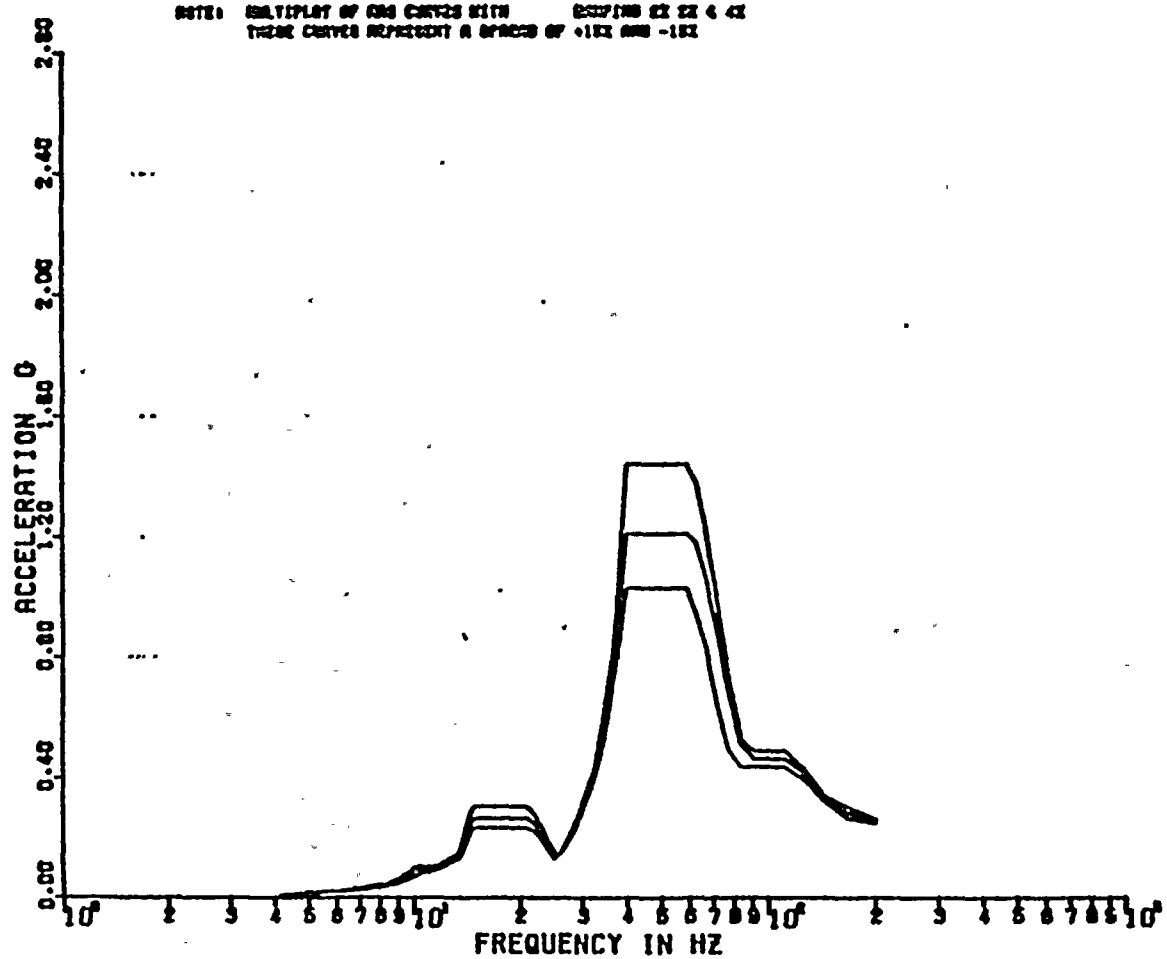
POPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RRS OF ACCELERATION PRIMARY CONT. (ELEV.231.44 FT)

MICHAEL K GO

BIGK CURVE SET [illegible] VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLIER OF [illegible] CURVES WITH DAMPING [illegible] & [illegible]
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



MS 1737
REF 170

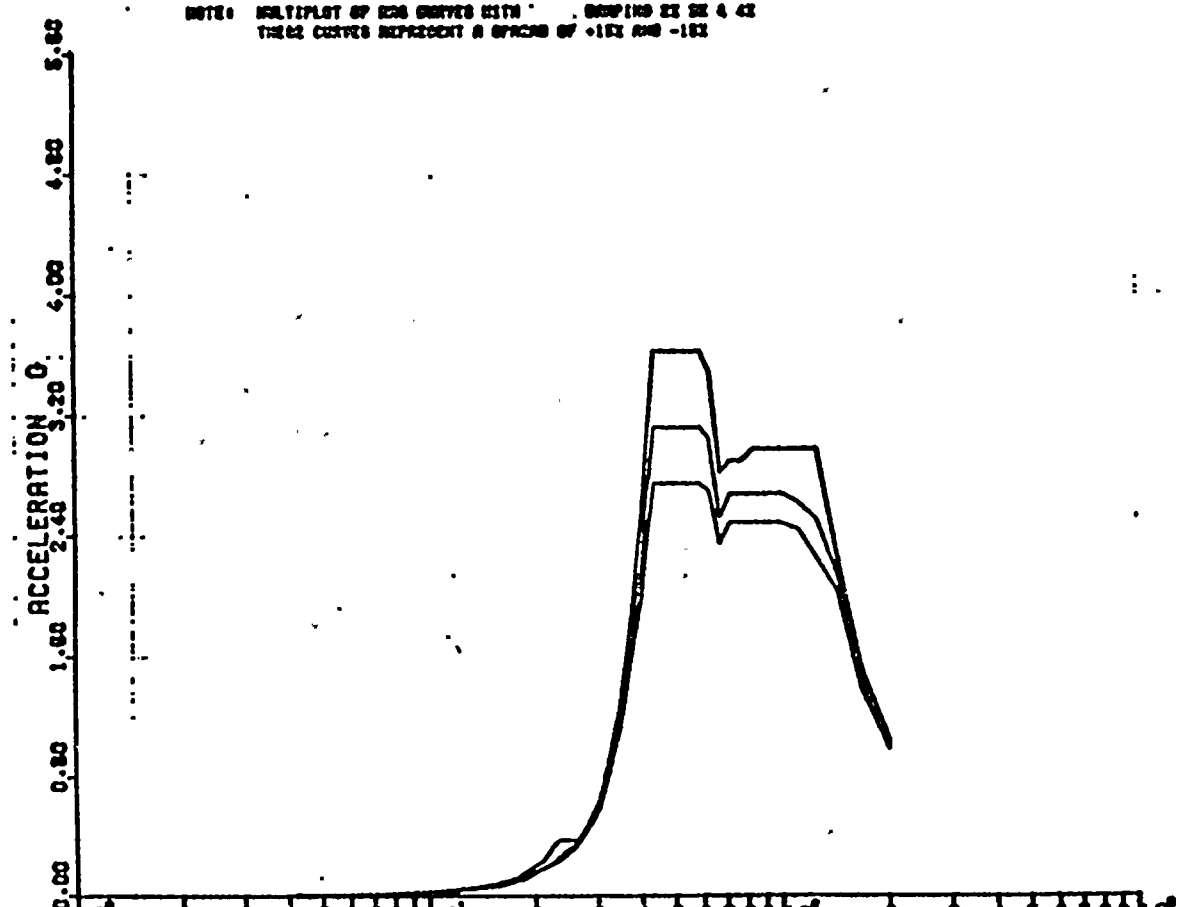
POPECTRA VER 01 LEV 00 CHUGGING LOADING CASE 8 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RRS OF ACCELERATION PEDESTAL (ELEV.230.5 FT)

MICHAEL K GO

BIGK CURVE SET NO.23 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING EQ SET 4 AT
THESE CURVES REPRESENT A SPACING OF +15% AND -15%



MS 1737

REF 171

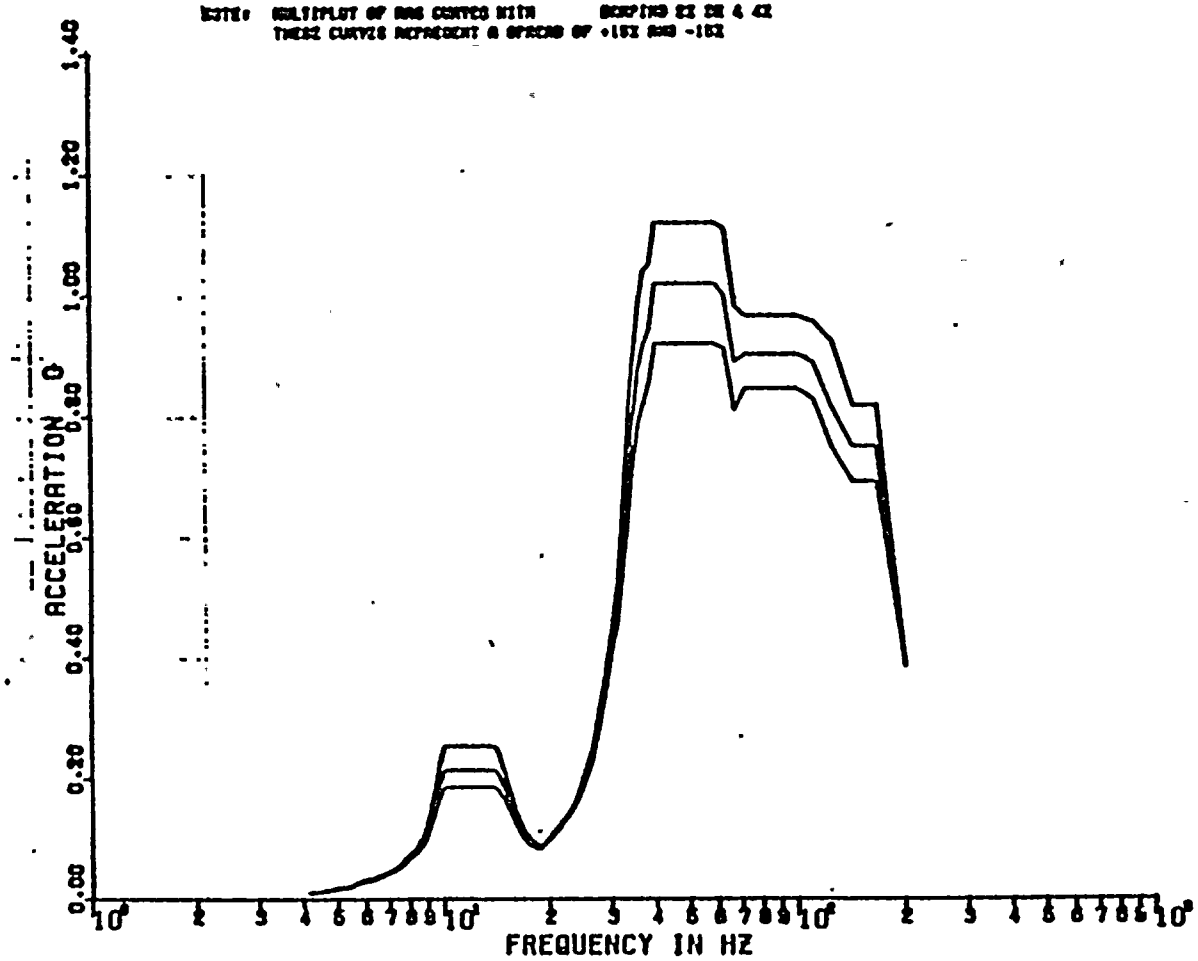
PSPECTRA VER 01 LEV 08 CHUDOING LONDING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION PEDESTAL (ELEV.230.5 FT)

MICHAEL'H DO

DISK CURVE SET NO.23 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING EQ DR 4 42
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



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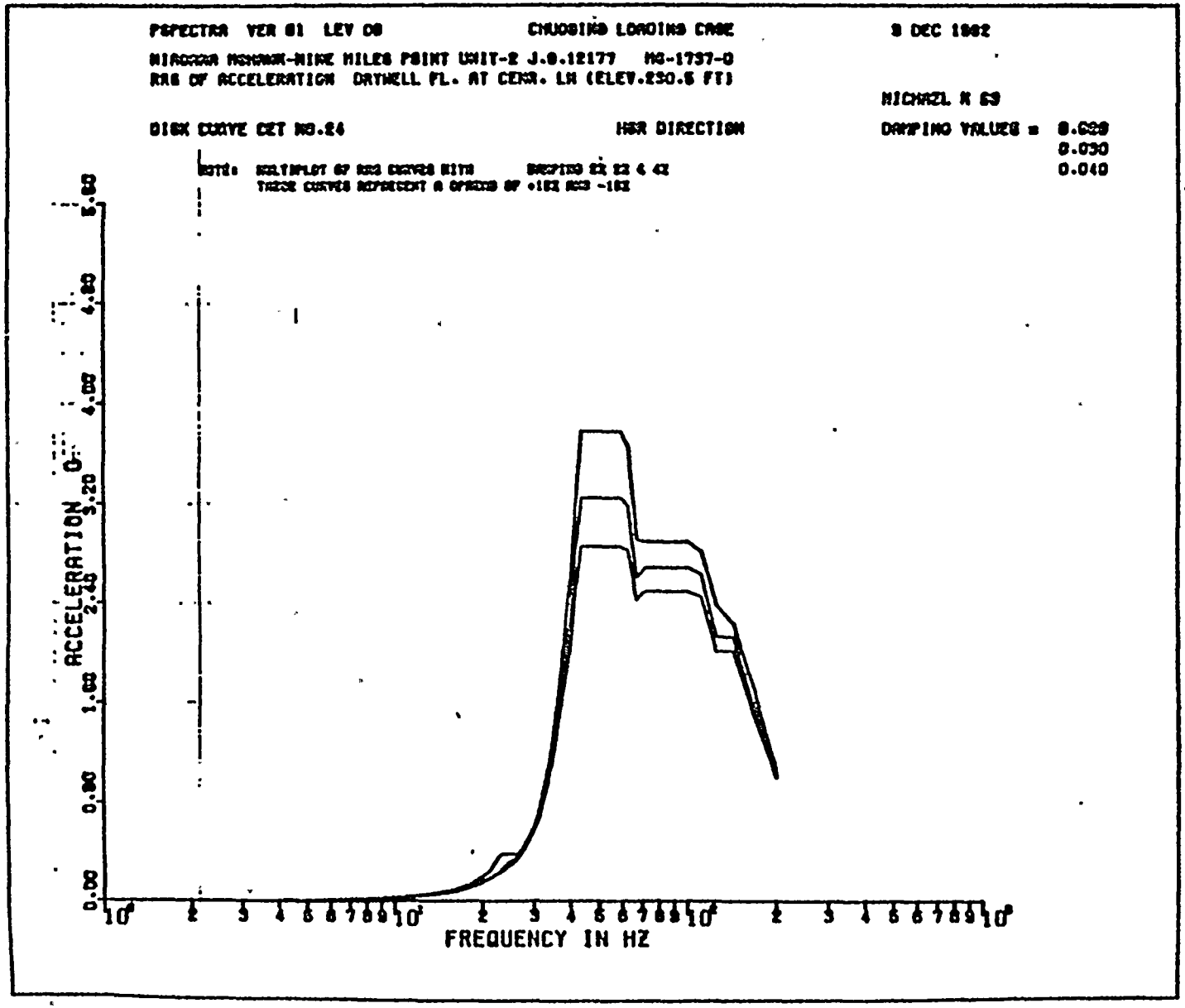


MS 1737

REF 172

PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

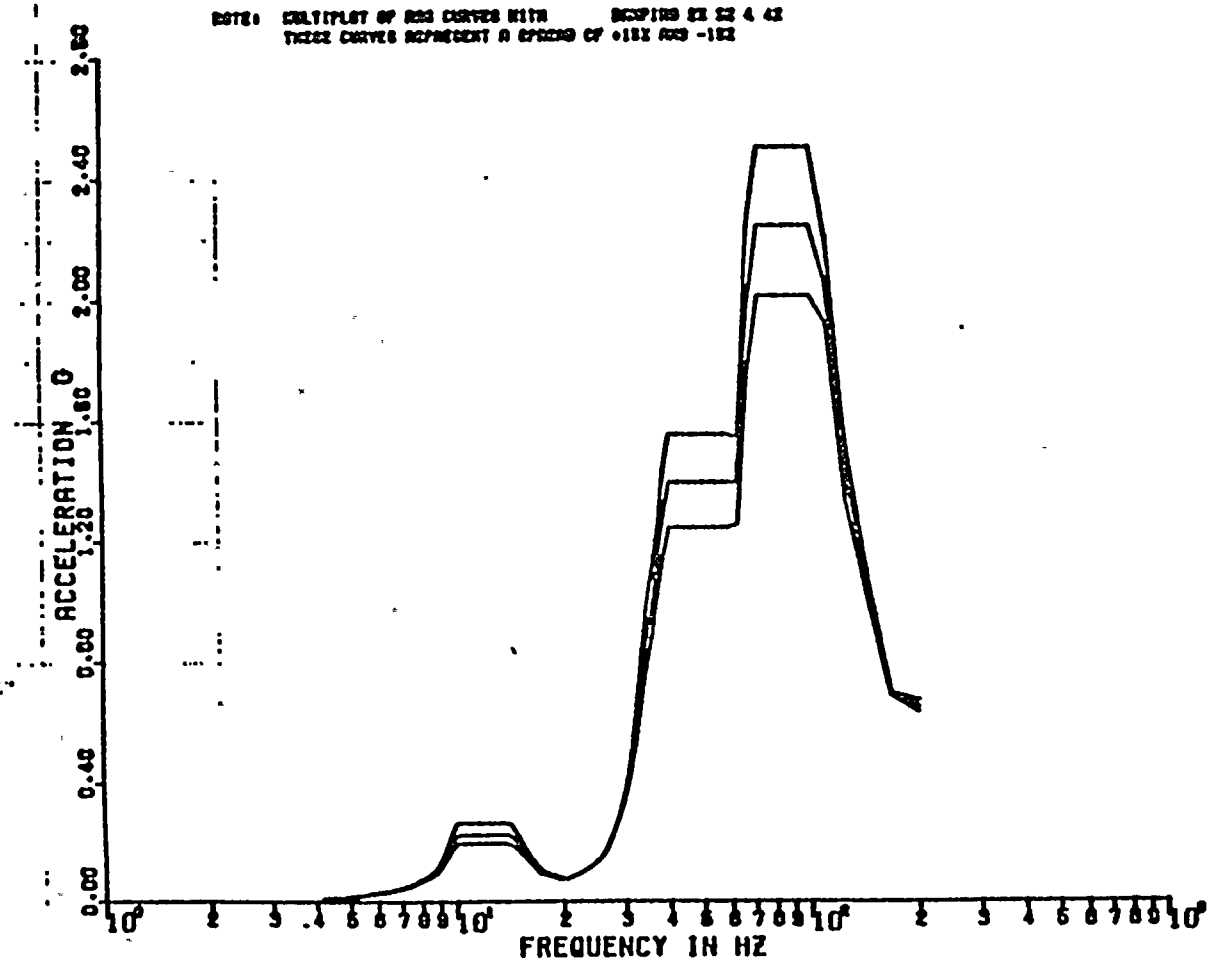
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION DRYWELL FL. AT CENR. LN (ELEV.250.5 FT)

MICHAEL K GO

BIEX CURVE SET NO.24 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: COMPOSITE OF RMS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



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PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

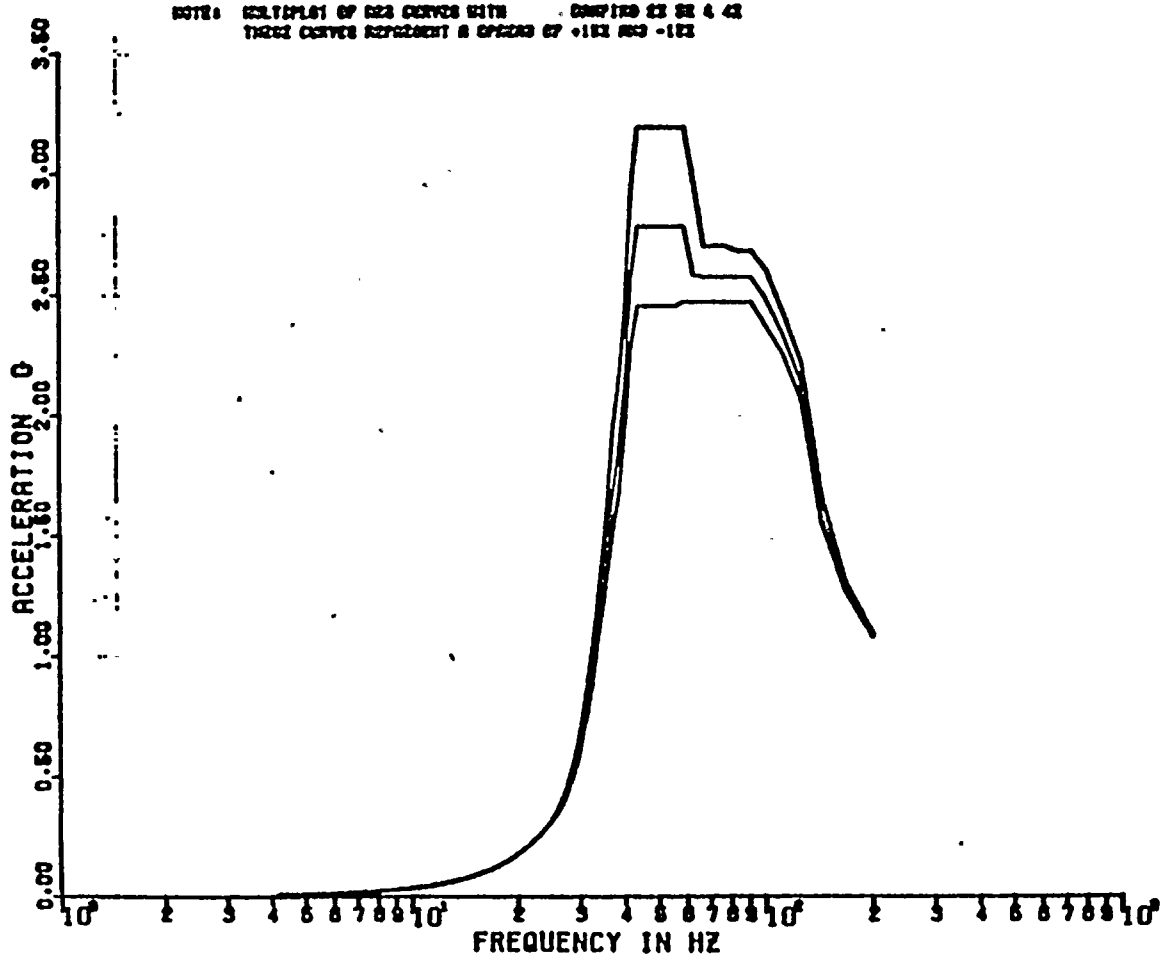
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0

RRS OF ACCELERATION DRYWELL FL./PRIM. CONT. (ELEV.253.00 FT)

MICHAEL H 09

DIGX CURVE GET NO.26 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLIES OF DGX CURVES WITH DAMPING XX XX & XX
THREE CURVES REPRESENT A SPREAD OF +10% AND -10%



MS 1737

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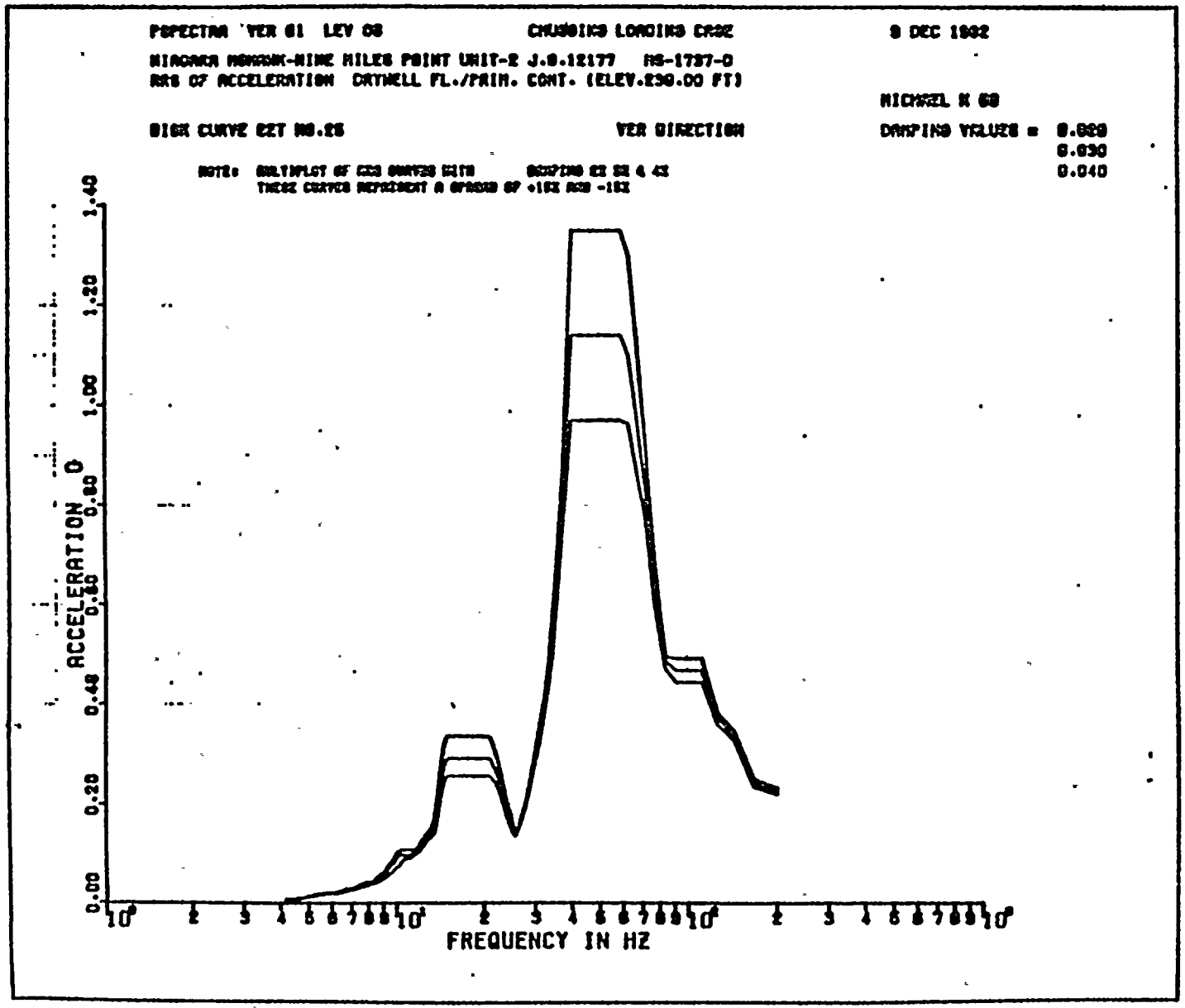


MS 1737

REF 173

PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

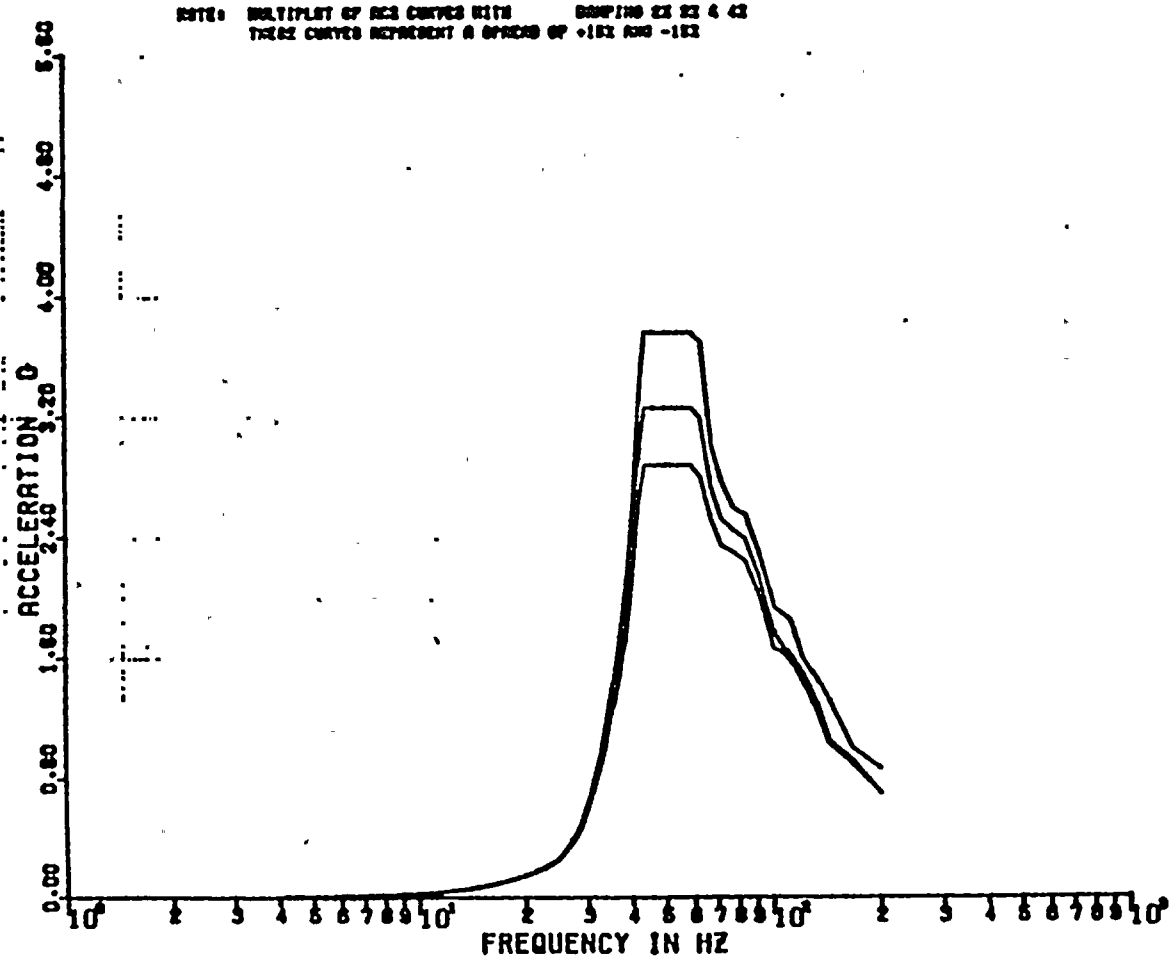
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0

RMS OF ACCELERATION DRYWELL FLOOR (ELEV.238.00 FT)

MICHAEL K SO

DISK CURVE SET NO.20 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLY OF RMS CURVES WITH DAMPING XX XX & XX
THESE CURVES REPRESENT A SPREAD OF +1SX AND -1SX



MS 1737

REF 174

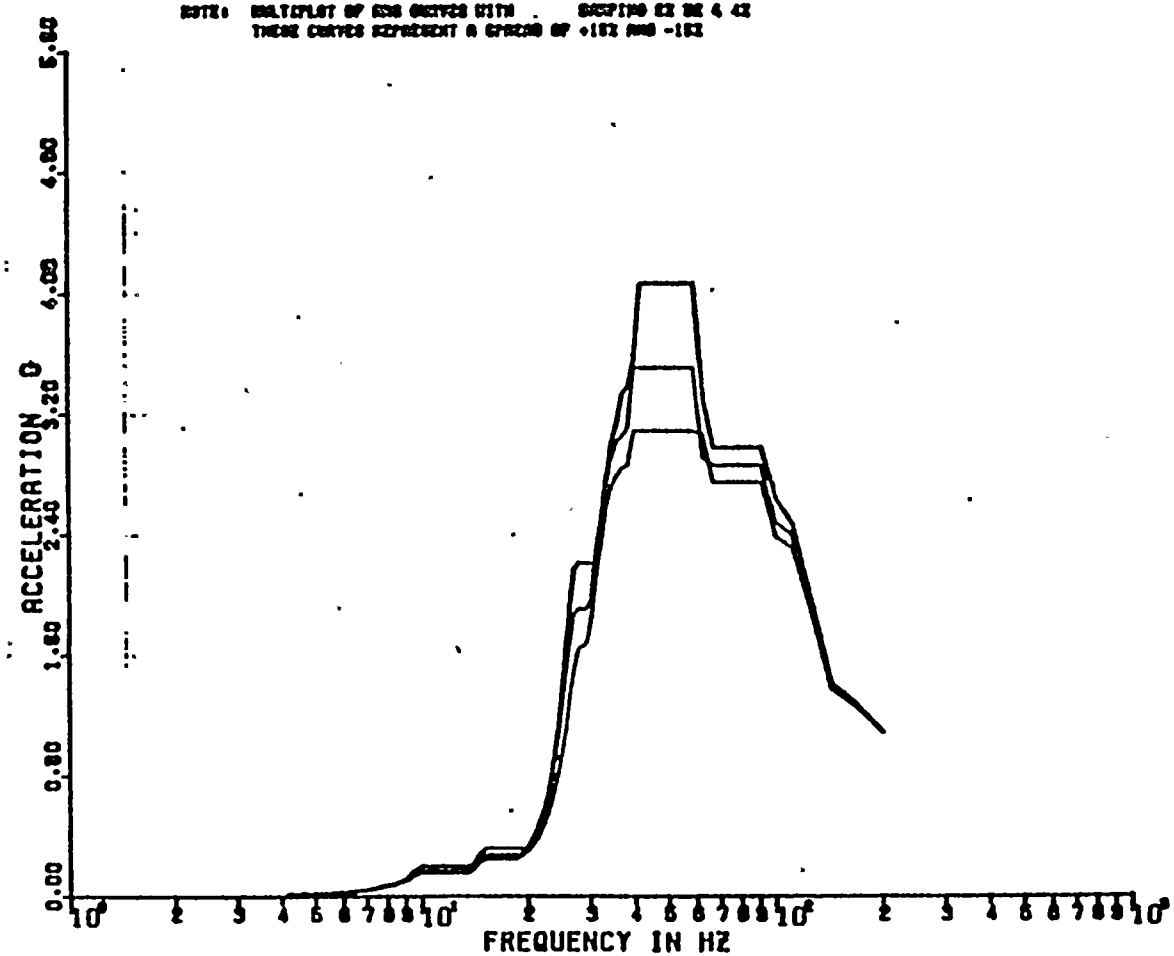
PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION DRYWELL FLOOR (ELEV.238.00 FT)

MICHAEL K OO

DISK CURVE SET NO.28 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING OF 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



MS 1737

REF 174

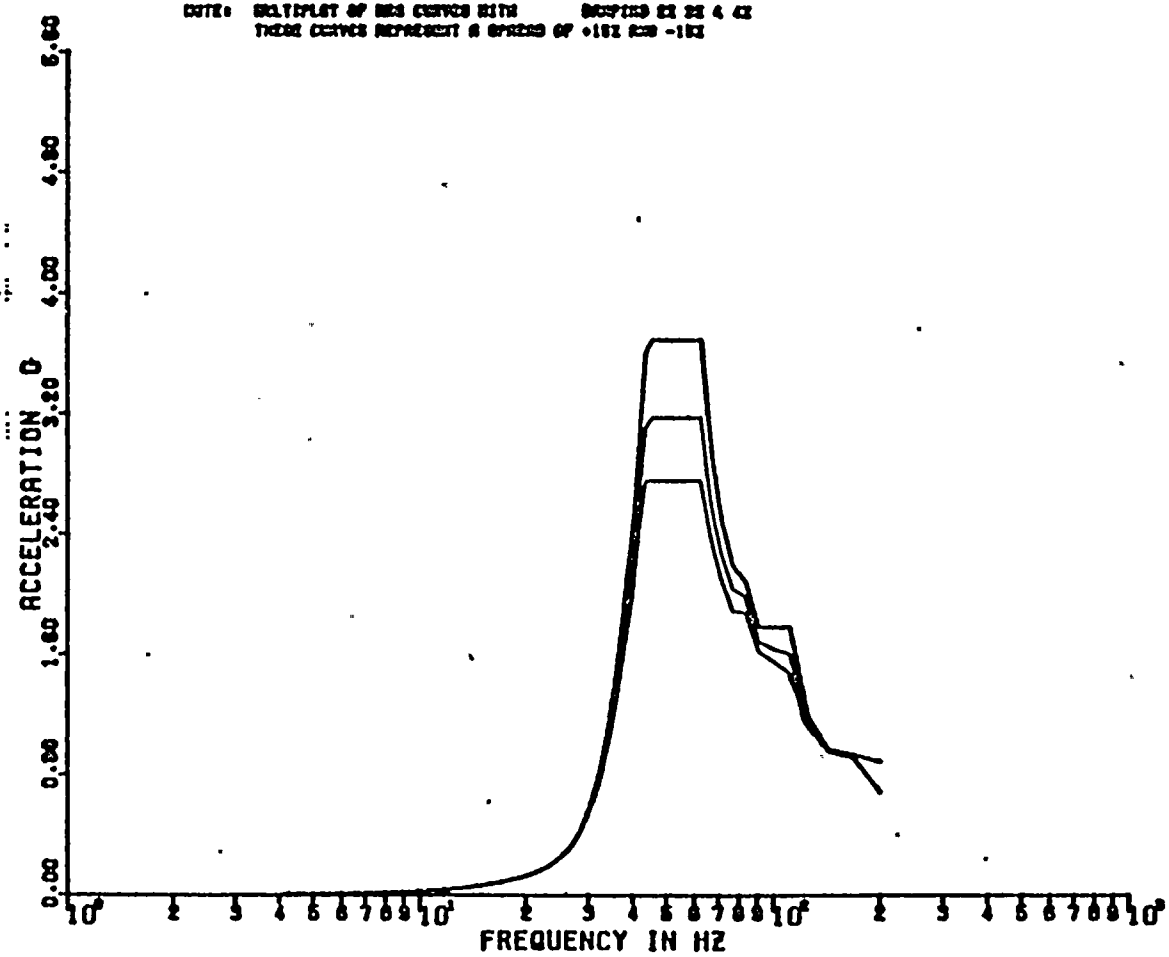
POPECTRA VER 01 LEV 00 CHUGGING LOADING CASE 8 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RRS OF ACCELERATION DRYWELL/PEDESTAL (ELEV.250.0 FT)

MICHAEL K GB

BIGX CURVE SET M3.27 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING EQ 2% & 4% OF
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



MS 1737

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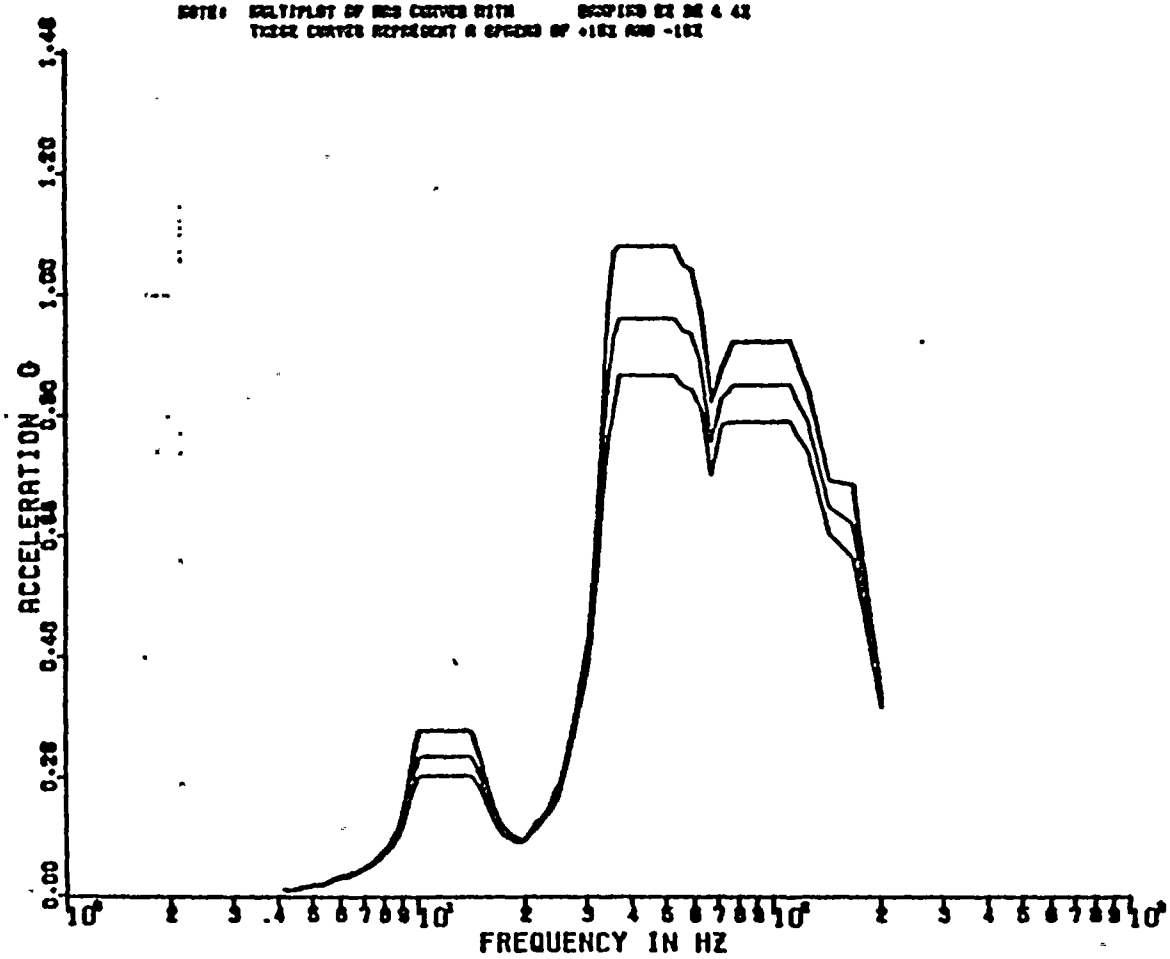
POPECTRA VER 01 LEV 08 CHUOSING LOADING CASE 8 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RRS OF ACCELERATION DRYWELL/PEDESTAL (ELEV.250.0 FT)

MICHAEL K GO

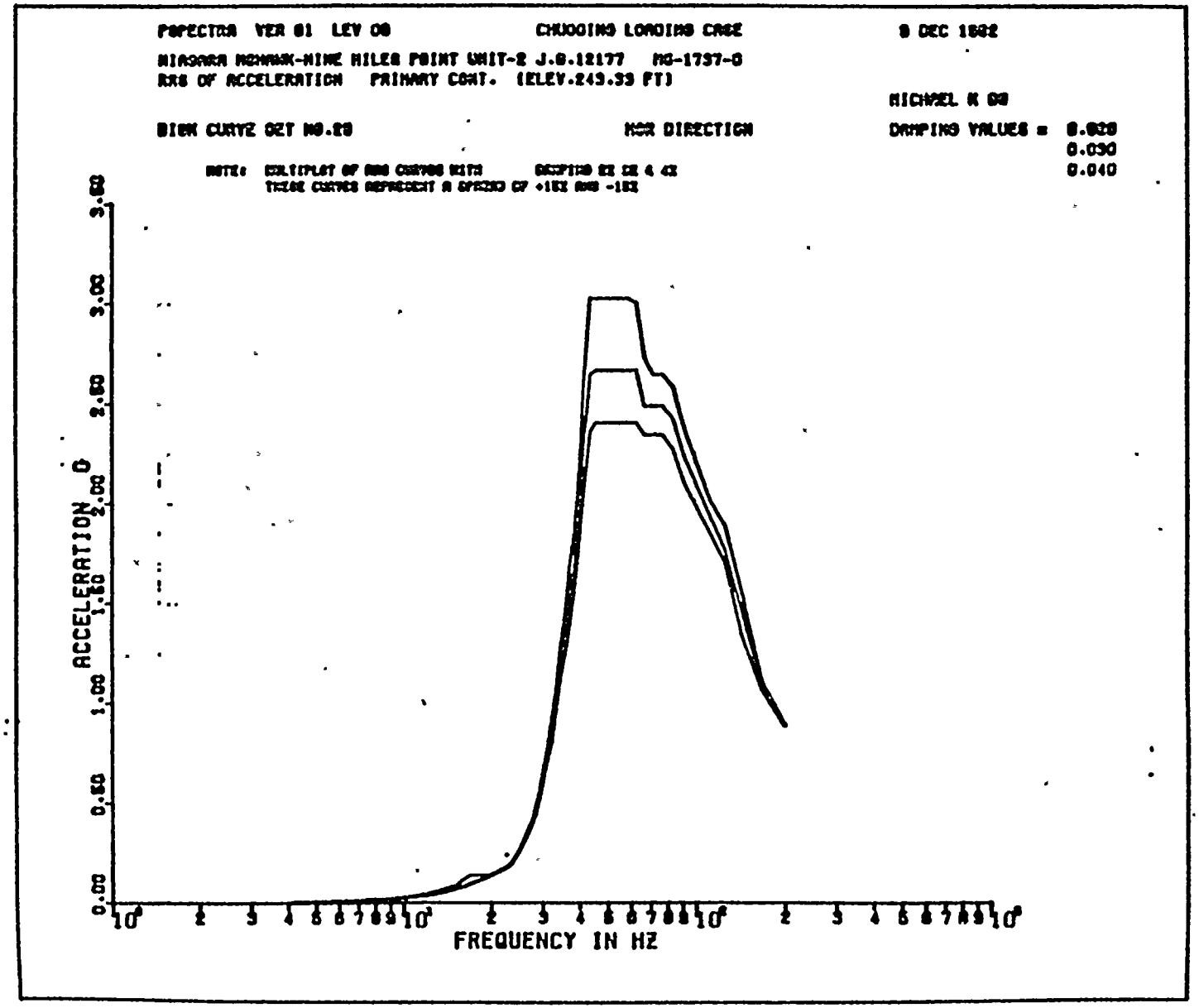
DIGX CURVE SET NO.27 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING OF 2% 3% & 4%
THREE CURVES REPRESENT A SPREAD OF +15% AND -15%



MS 1237

REF 175



REF 176

MS 1737

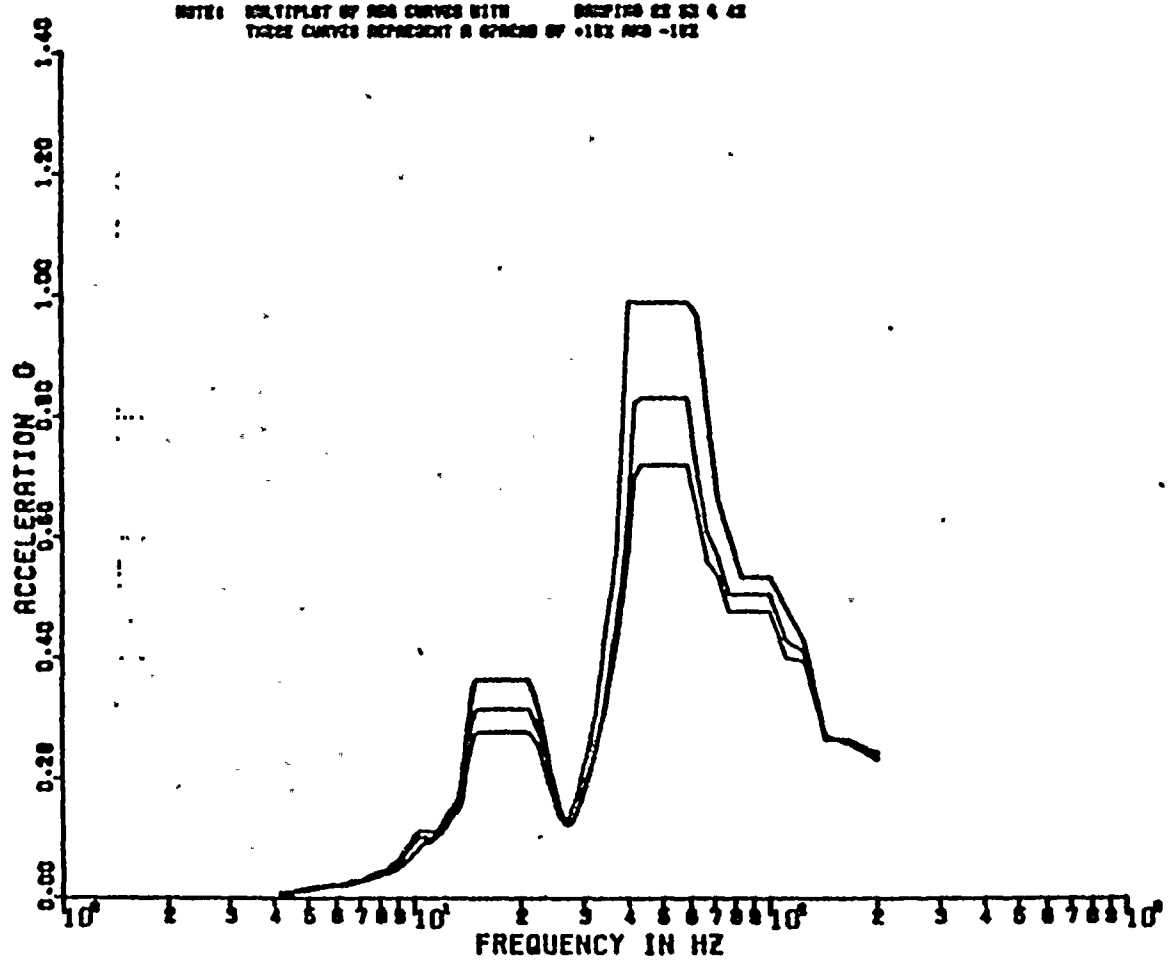
PSPECTRA VER 01 LEV 00 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION PRIMARY CONT. (ELEV.243.33 FT)

MICHAEL K CO

DISK CURVE SET NO.28 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING EQ 03 & 02
THESE CURVES REPRESENT A SPREAD OF +18% AND -18%



MS 1737

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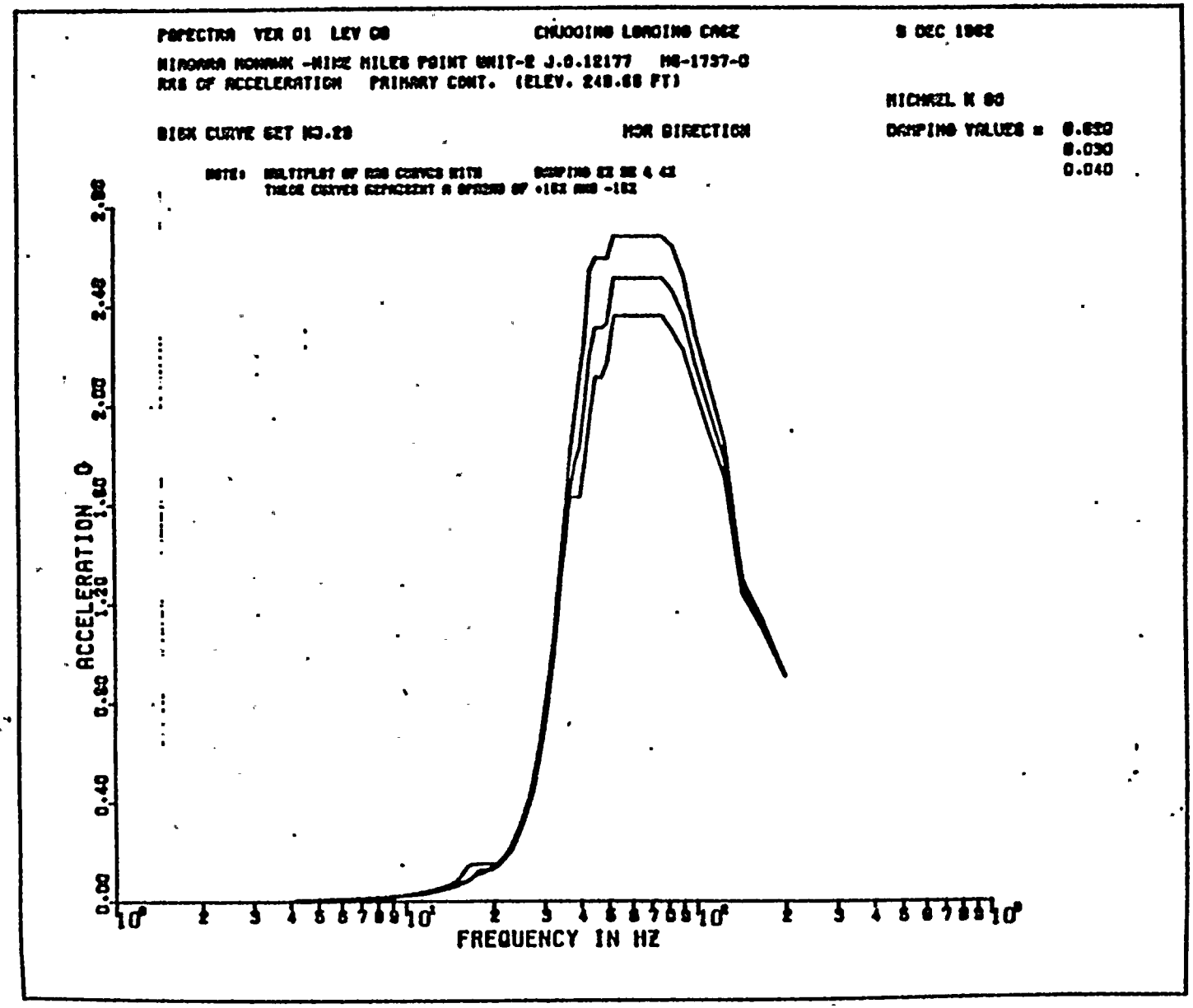

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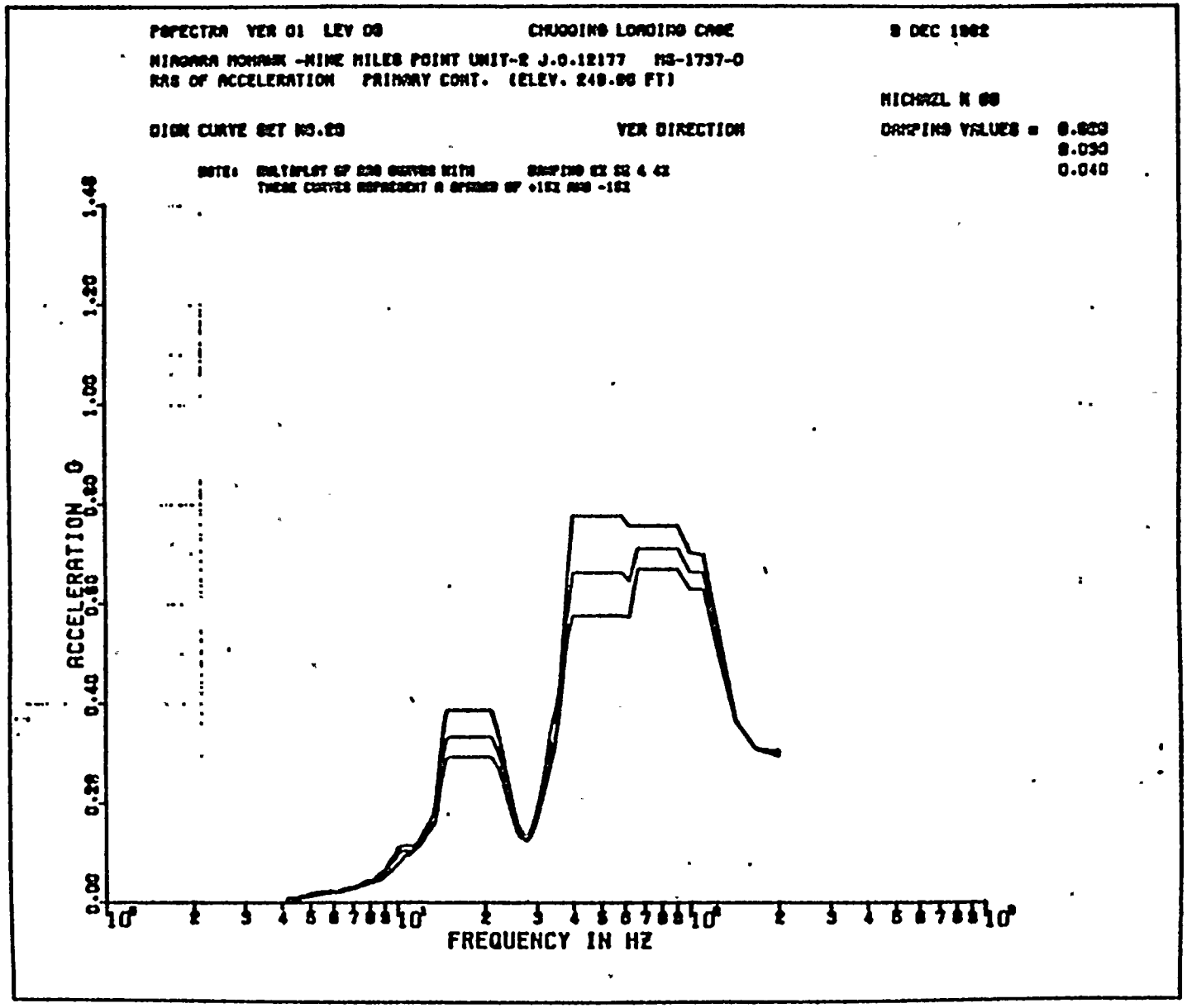
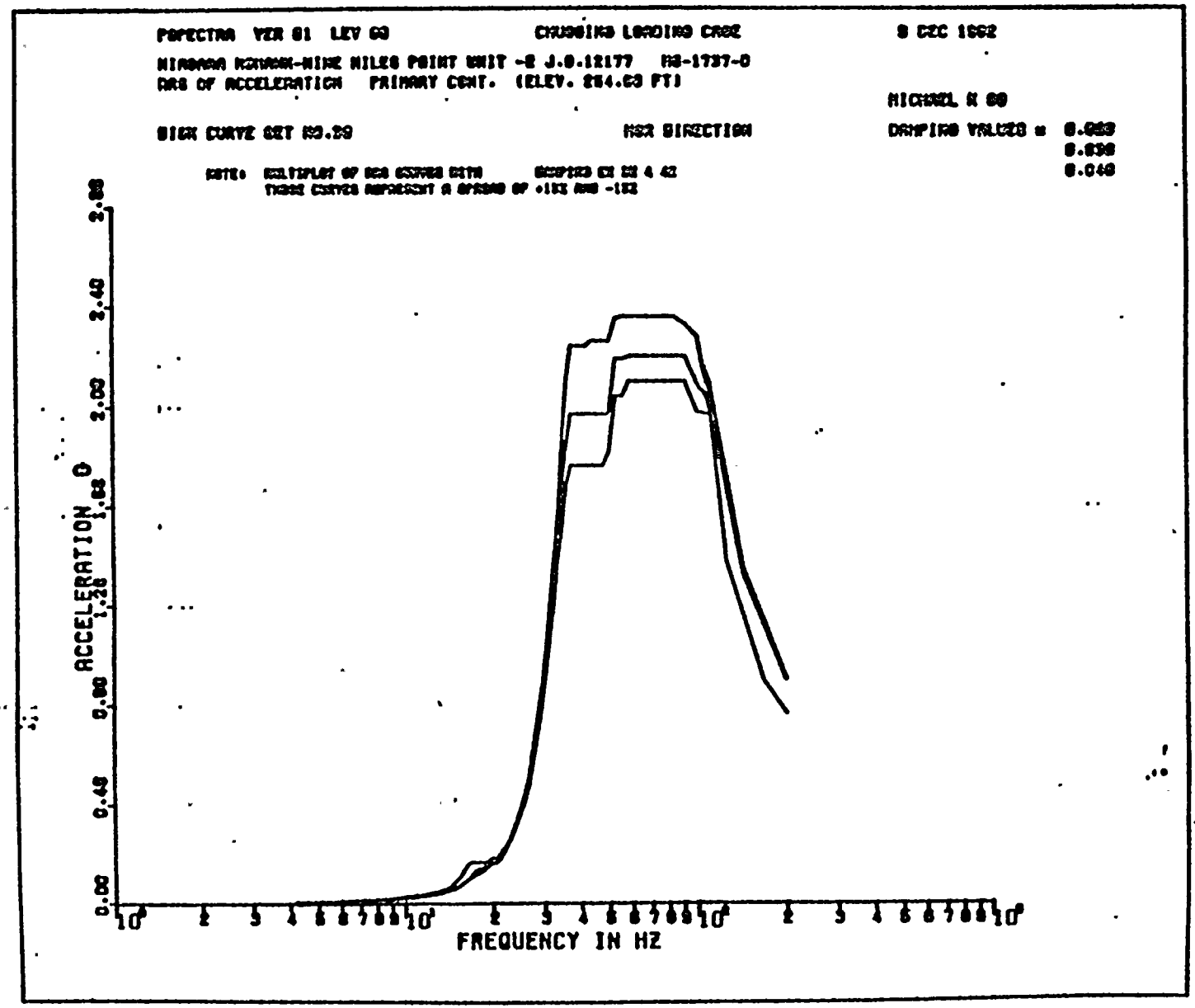


MS 1737

REF 172



REF 178

2321 SM

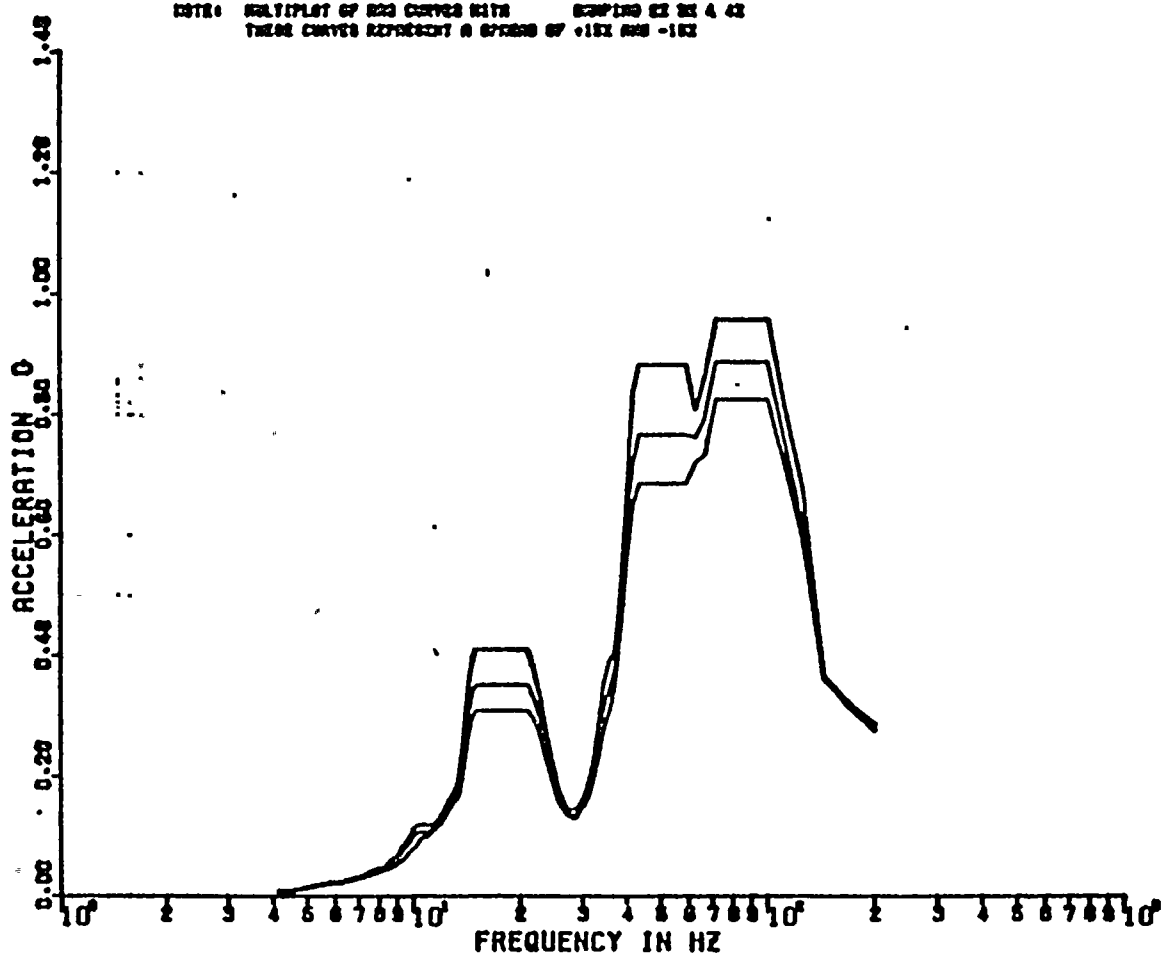
SPECTRA VER 01 LEV 03 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT -2 J.O.12177 MS-1737-0
RZS OF ACCELERATION PRIMARY CONT. (ELEV. 254.00 FT)

MICHAEL K 63

BIEX CURVE SET NO.30 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RZS CURVES WITH DAMPING OF 2% & 4 %
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



MS 1737

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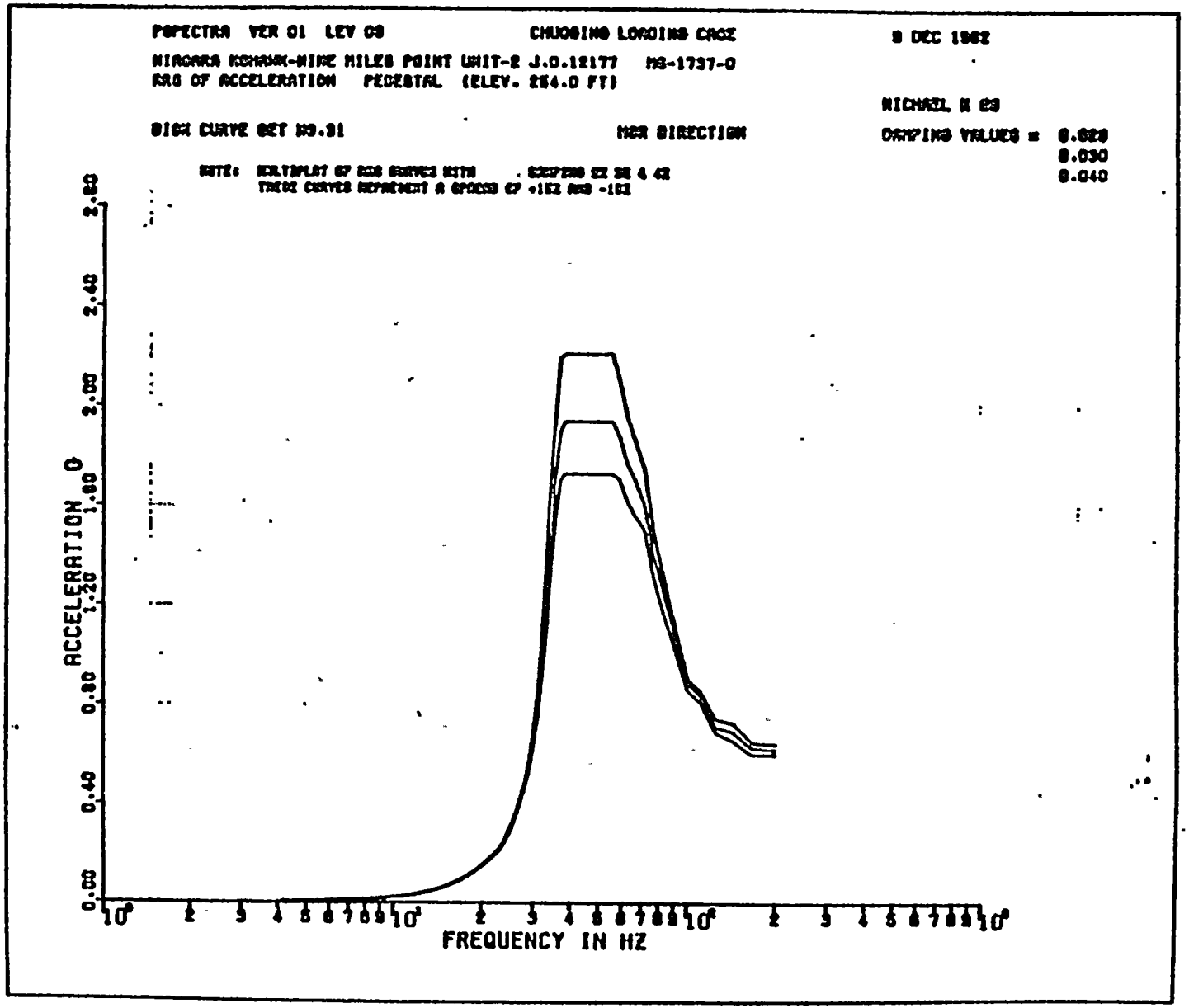


REF 179

MS 1737

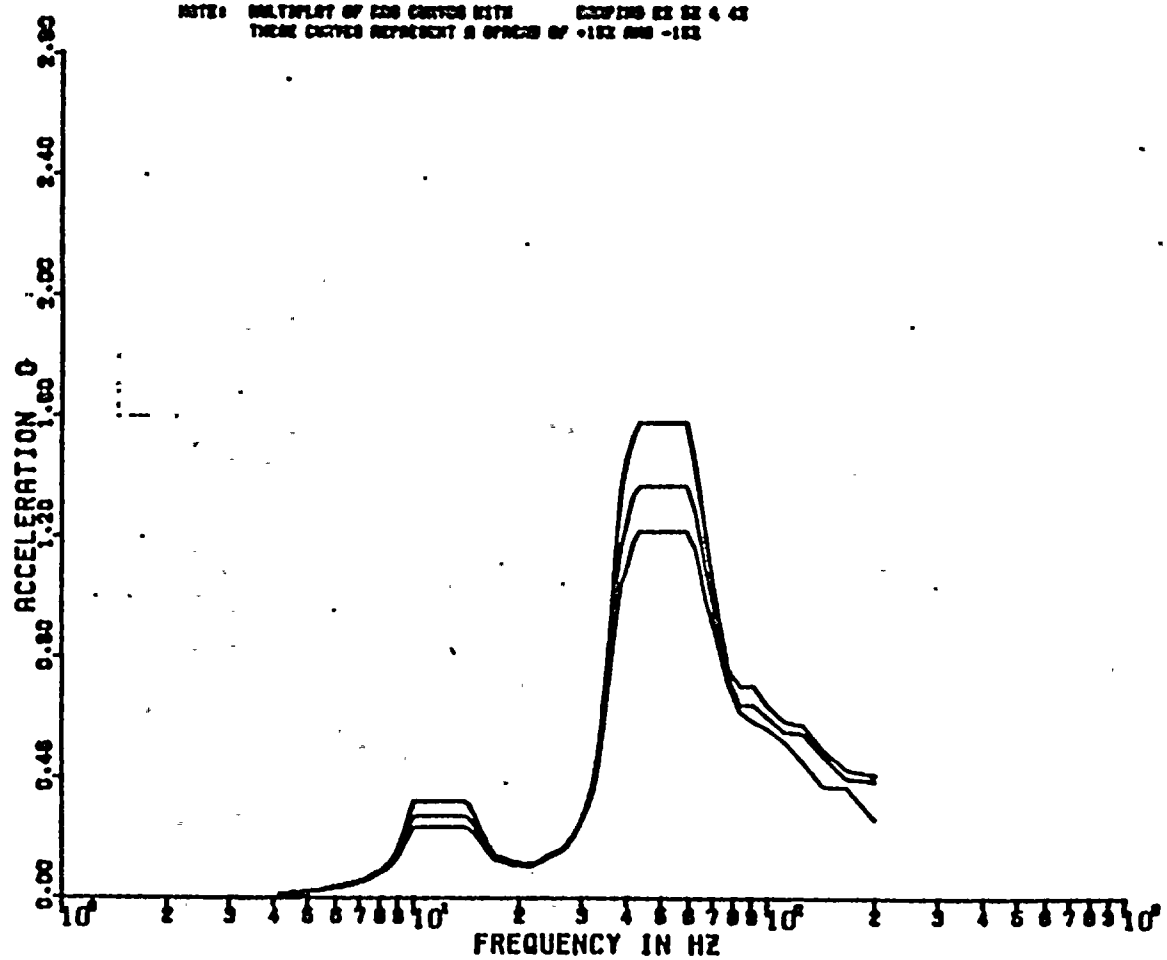
PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 NS-1797-0
RRS OF ACCELERATION PEDESTAL (ELEV. 254.0 FT)

MICHAEL K 89

BIEX CURVE SET NO.31 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF 200 CURVES WITH DAMPING EX 32 & 42
THESE CURVES REPRESENT A SPACING OF +1SX AND -1SX



MS 1232

REF 179

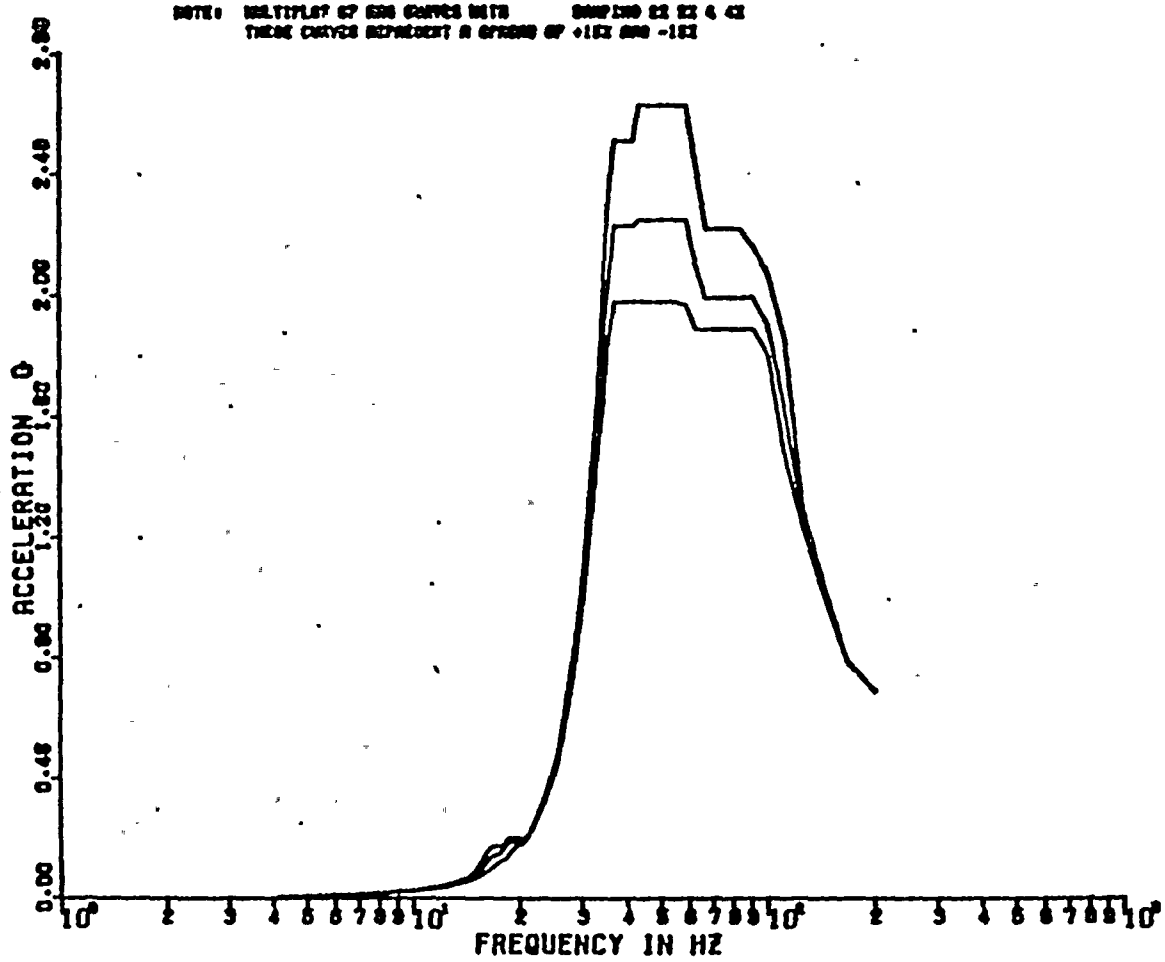
POPECTRA VER 01 LEV 08 CHUGSING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RRS OF ACCELERATION PRIMARY CONT. (ELEV.250.33 FT)

MICHAEL K 00

BIGH CURVE SET NO.32 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLY BY 386 GIVES UNITS DAMPING 02 03 & 04
THESE CURVES REPRESENT A GROUND OF +10% AND -10%



REF 180

MS 1737

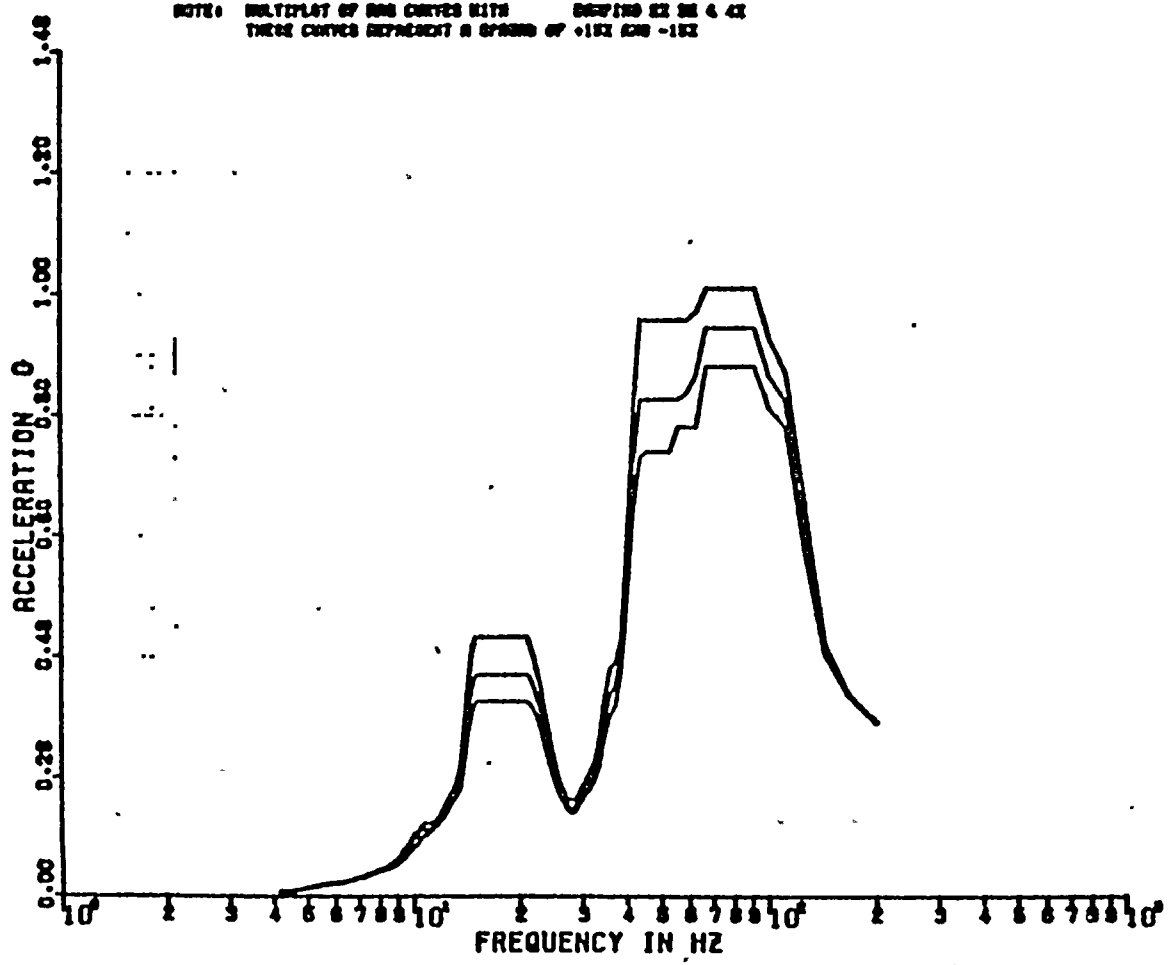
PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MG-1737-0
RRS OF ACCELERATION PRIMARY CONT. (ELEV.259.33 FT)

MICHAEL K 69

BIBK CURVE SET NO.32 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING EQ 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 180

MS 1737

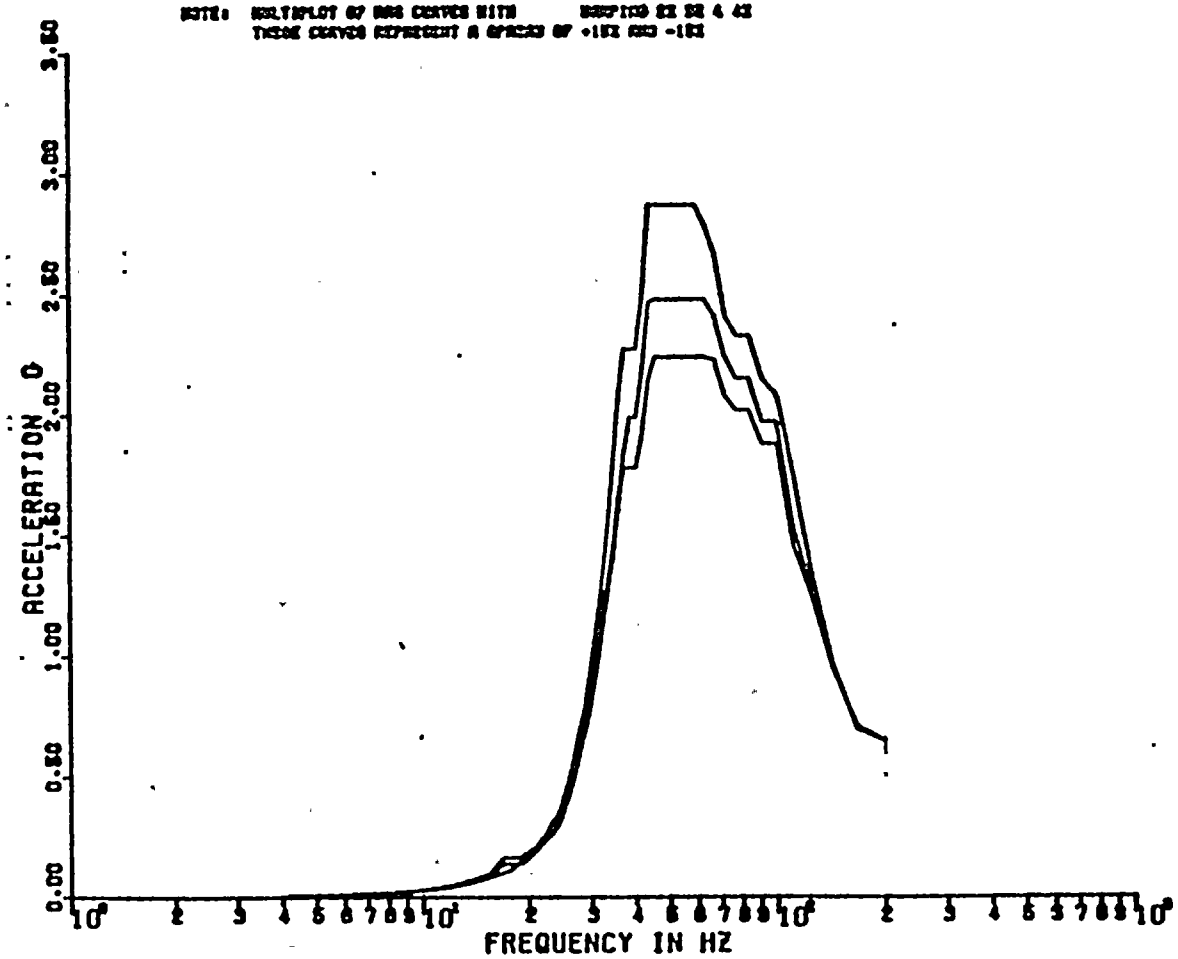
PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION PRIMARY CONT. (ELEV.270.00 FT)

NICHOLL N 03

BION CURVE SET NO.33 NOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING EQ TO 4 42
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



MS 1732

REF 181

RSPECTRA VER 01 LEV 00 CHUOSING LOADING CASE 9 DEC 1982

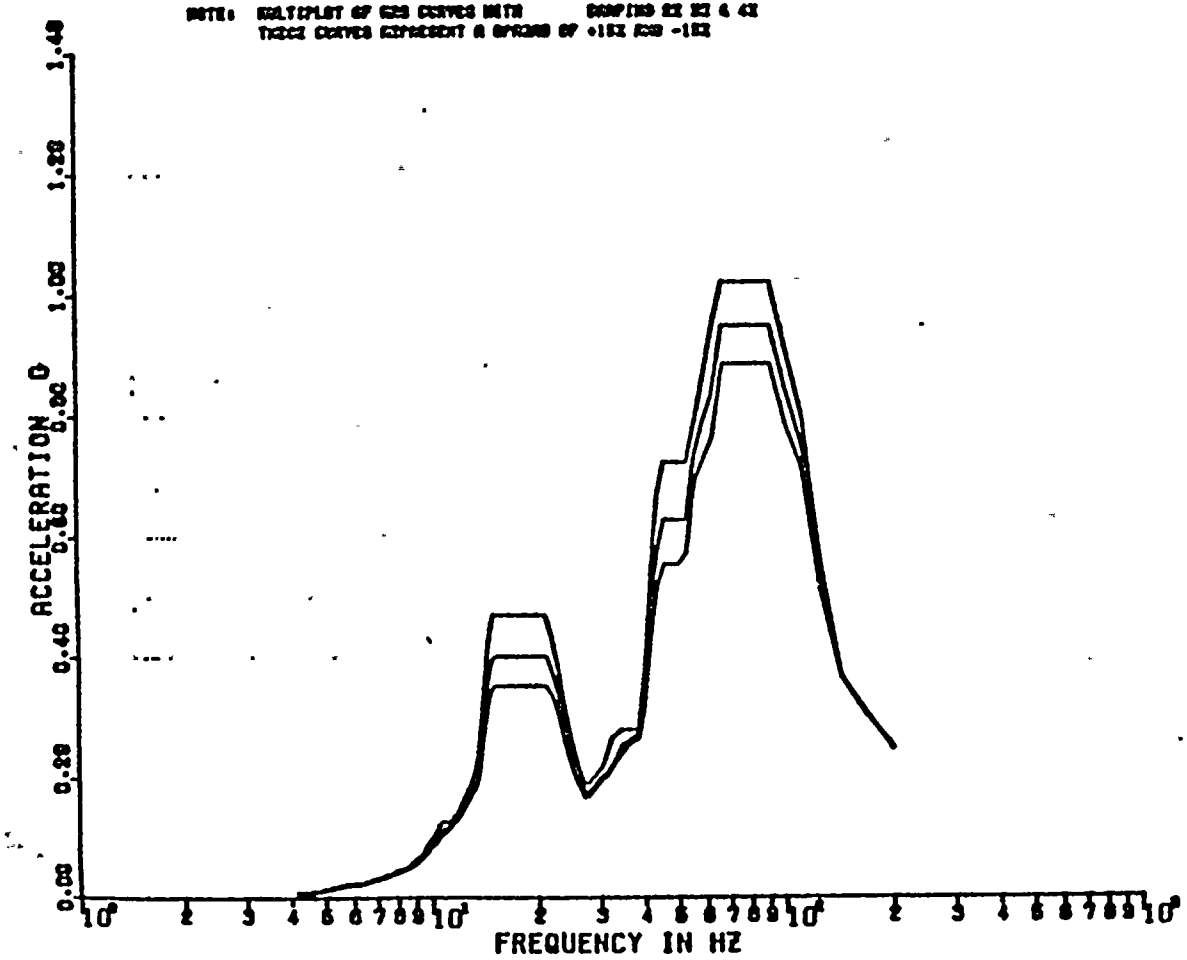
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 M3-1737-0
RRS OF ACCELERATION PRIMARY CONT. (ELEV.270.00 FT)

MICHAEL K 69

BIGX CURVE GZT M3.33 VER DIRECTION

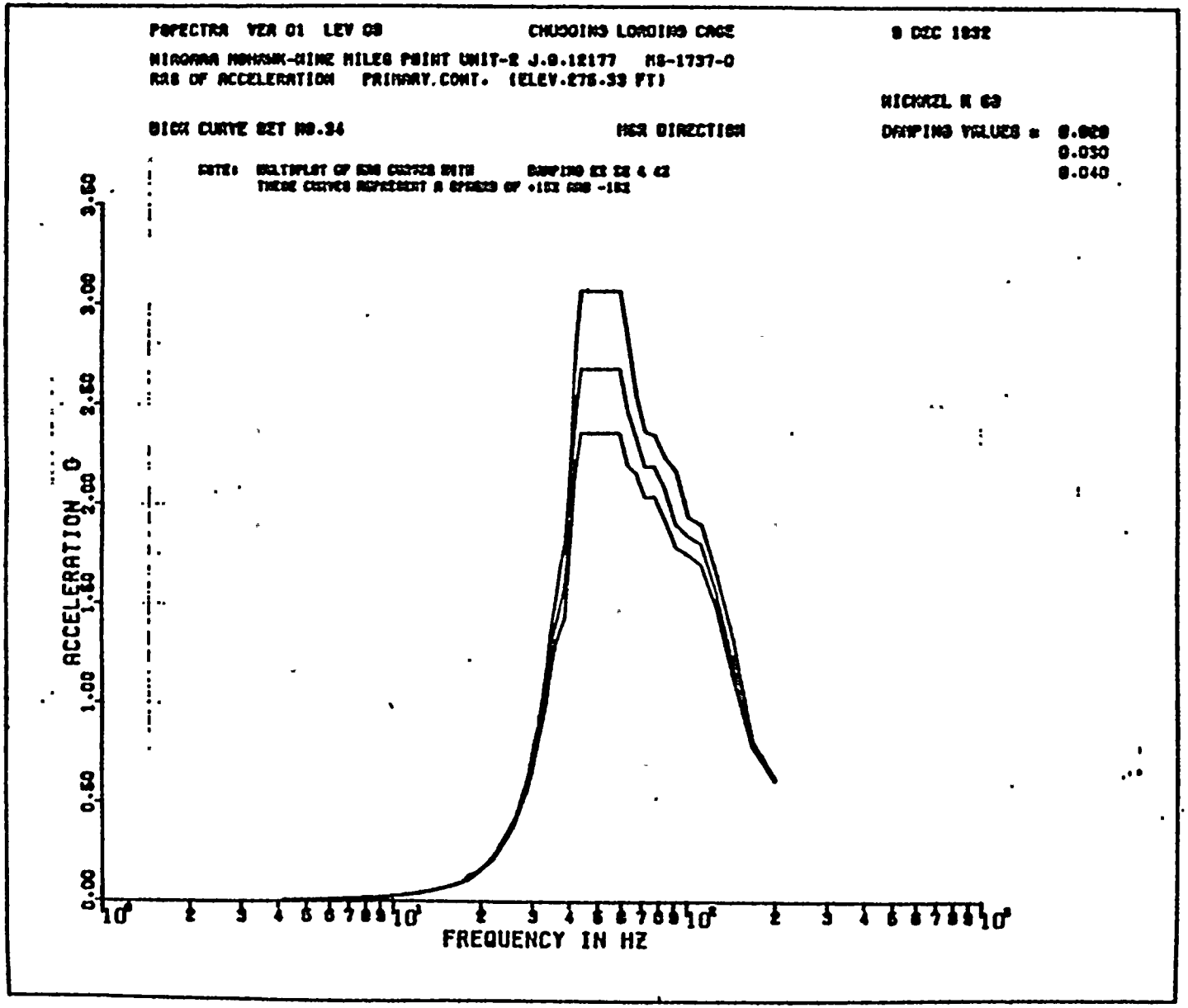
DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF 6ZB CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A BROADB OF +15% AND -15%



REF 181

MS 1232



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RSPECTRA VER 01 LEV 00 CHUGGING LOADING CASE 9 DEC 1982

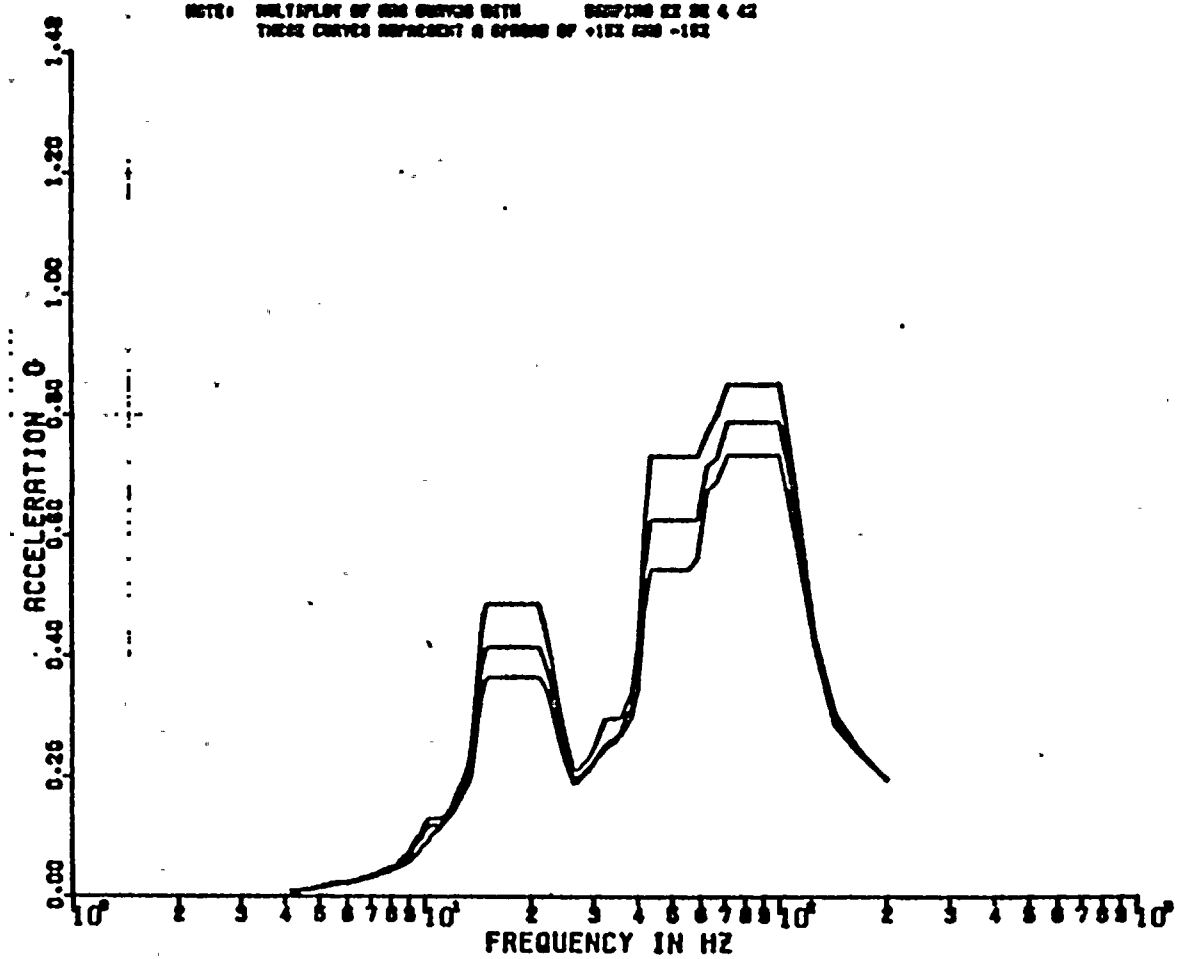
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 M3-1737-0

RMS OF ACCELERATION PRIMARY CONT. (ELEV.278.33 FT)

MICHAEL N 00

BIGK CURVE SET NO.34 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLY OF RMS CURVES BETW DAMPING EX 2E 4 42
THESE CURVES REPRESENT A SPREAD OF +1SX AND -1SX



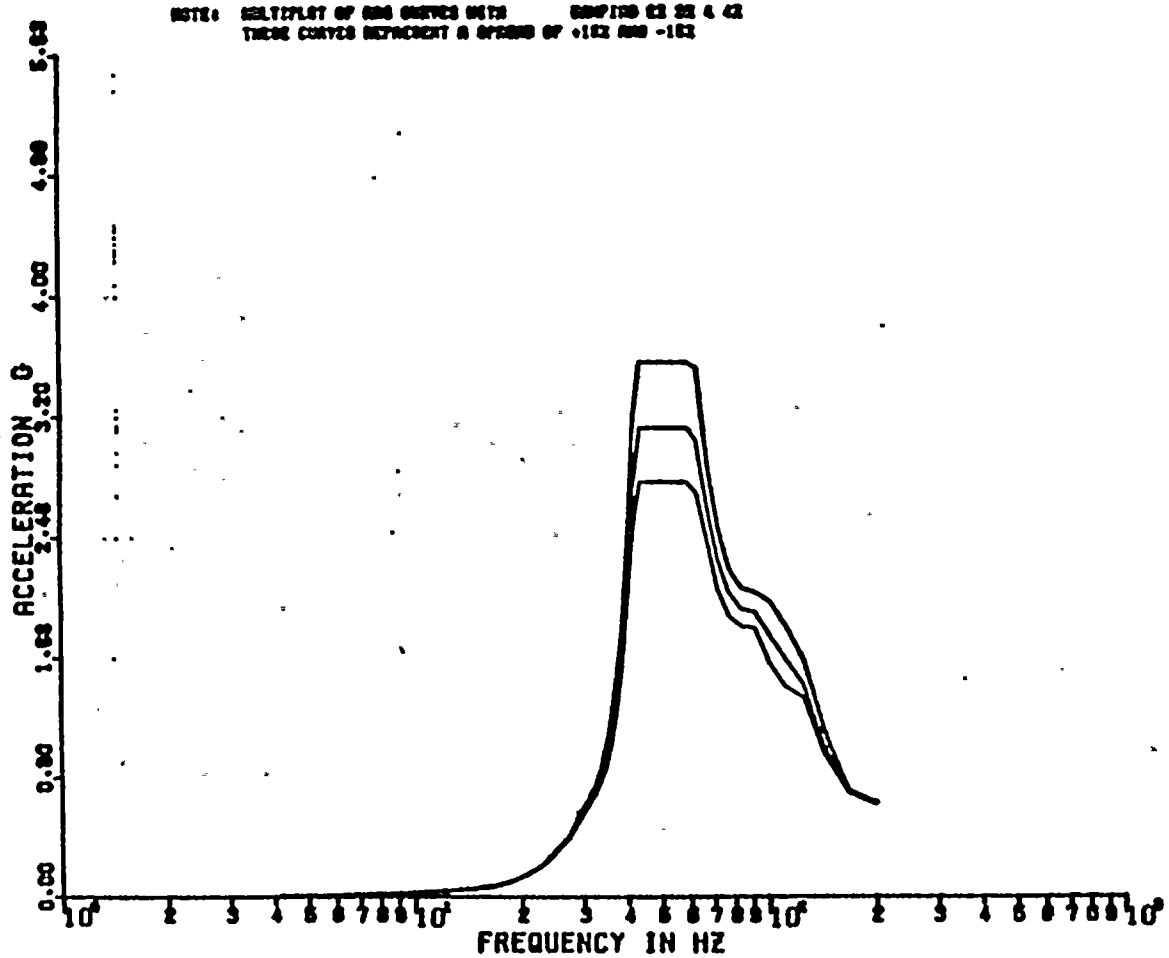
PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION PRIMARY CONT. (ELEV.296.00 FT)

MICHAEL K 00

BIGK CURVE SET NO.36 MAX DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING OF 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +12% AND -12%



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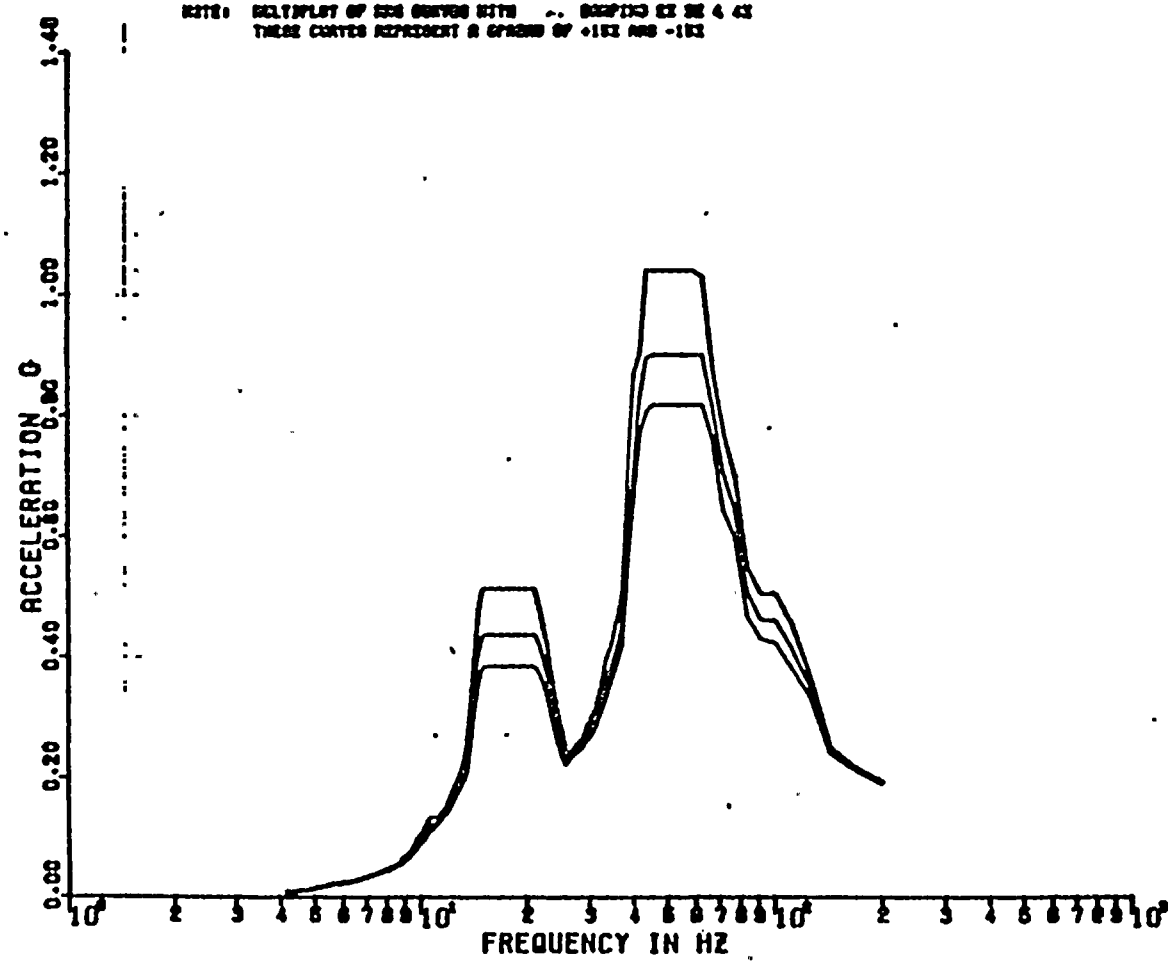
PSPECTRA VER 01 LEV 00 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION PRIMARY CONT. (ELEV.283.00 FT)

MICHAEL K 63

BION CURVE SET NO.36 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF 3DB CURVES WITH -- DOUBLE EX DE & 4X
THESE CURVES REPRESENT A SPREAD OF +1SX AND -1SX



MS 1737

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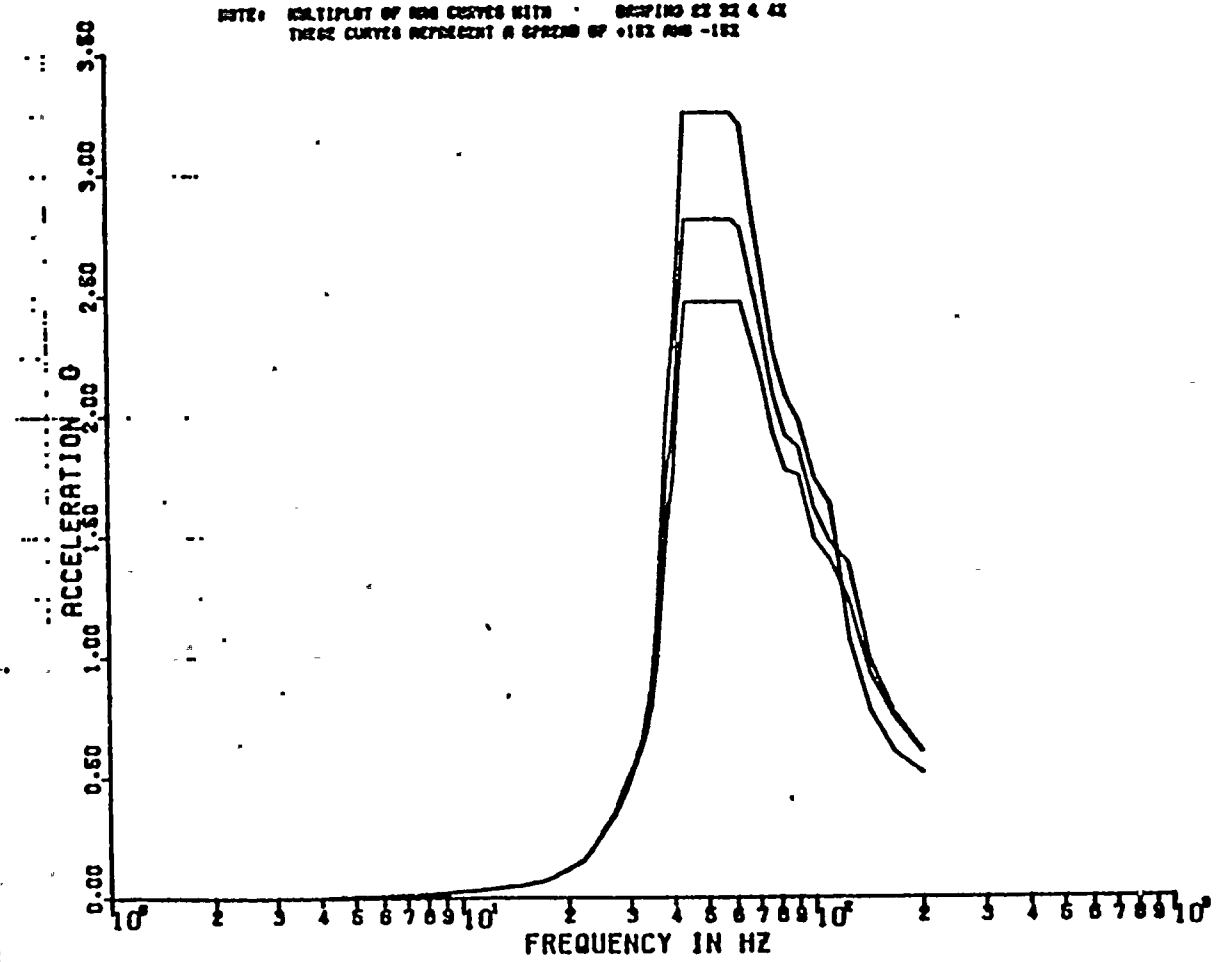
PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RRS OF ACCELERATION PRIMARY CONT. (ELEV. 291.33 FT)

MICHAEL N OO

DISK CURVE SET NO.36 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF NOM CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +1SD AND -1SD



MS 1737

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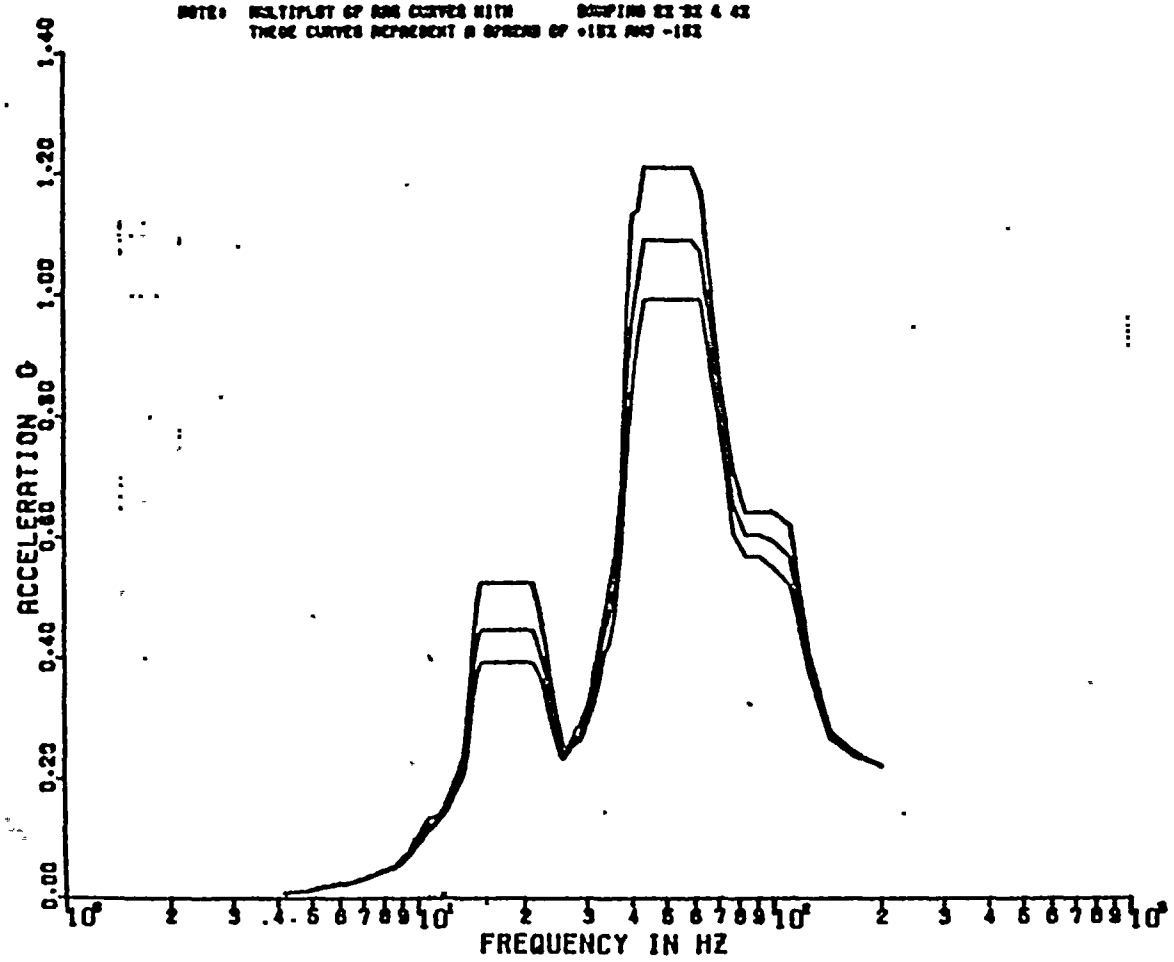
PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

MIRORRA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177. MS-1737-0
RMS OF ACCELERATION PRIMARY CONT. (ELEV. 291.33 FT)

MICHAEL K DO

DISK CURVE SET NO.33 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING EQ 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +18% AND -18%



REF 184

MS 1737

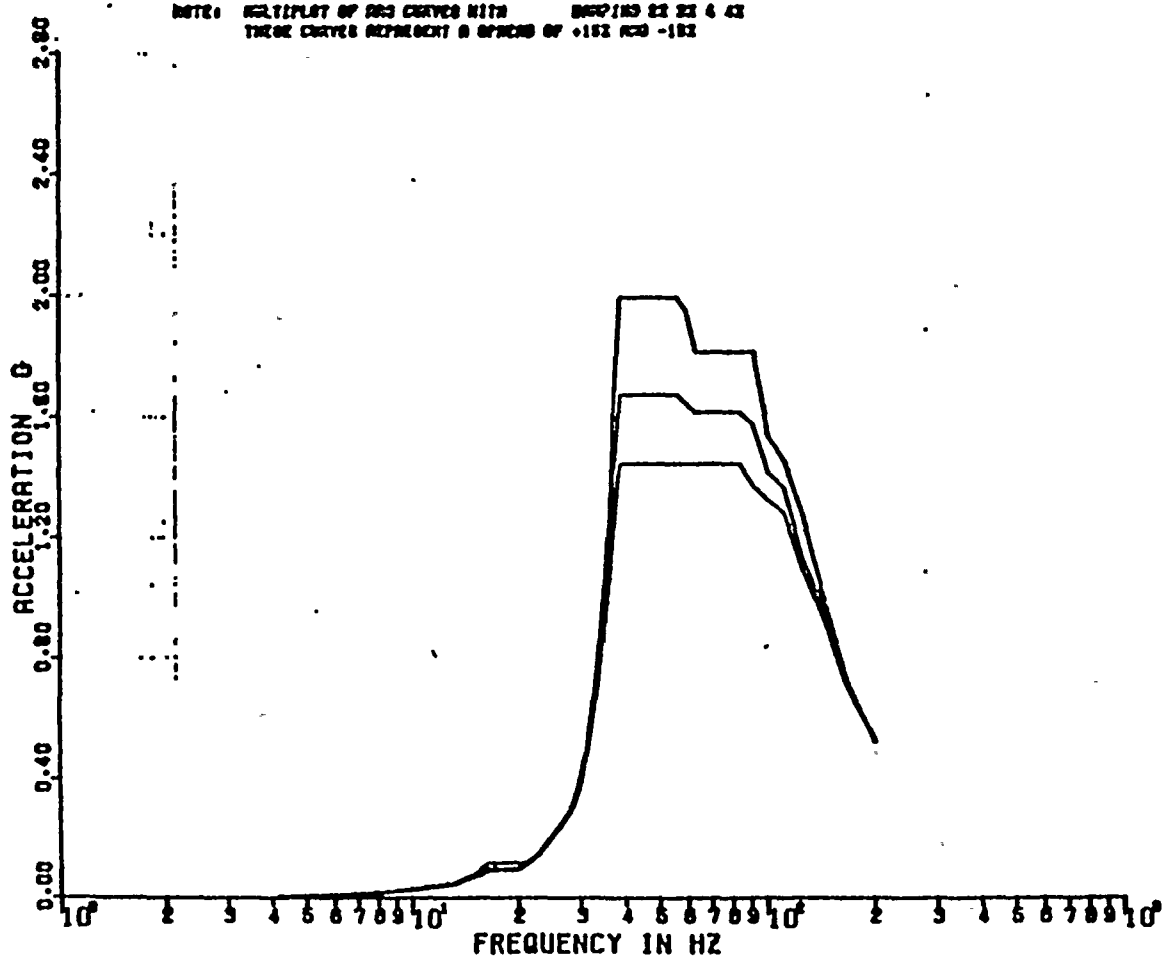
PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 8 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT2 J.O.12177 MS-1737-0
RRS OF ACCELERATION PRIMARY CONT. (ELEV 302.0 FT)

MICHAEL K DO

DICK CURVE SET NO.37 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF 3RD CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 185

MS 1737

PAGE #84

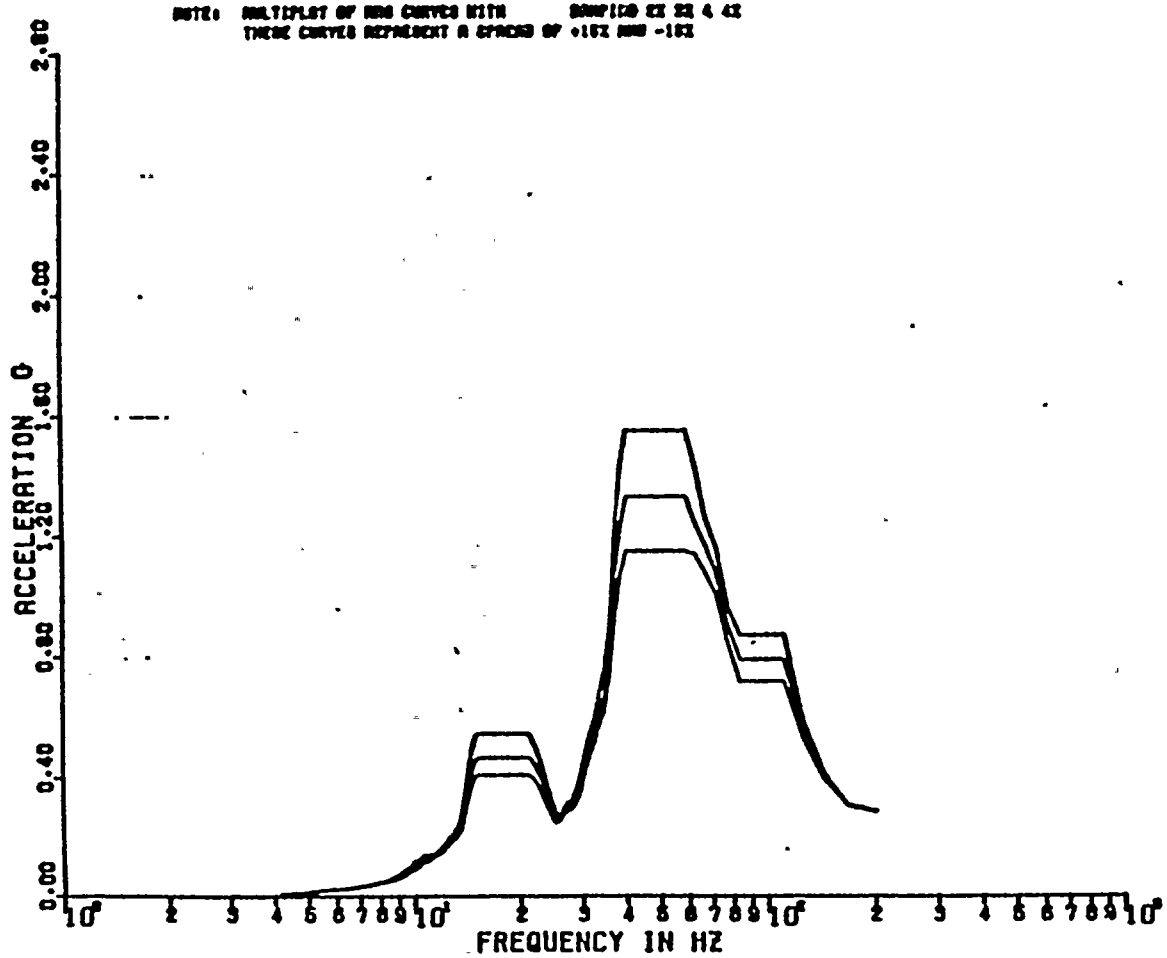
PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT2 J.O.12177 MS-1737-0
RMS OF ACCELERATION PRIMARY CONT. (ELEV 302.0 FT)

MICHAEL K OO

BIBK CURVE SET MO.37 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLET OF RMS CURVES WITH DAMPING XX XX & XX
THESE CURVES REPRESENT A SPACING OF +10% AND -10%



MS 1737

REF 185

PAGE # 85

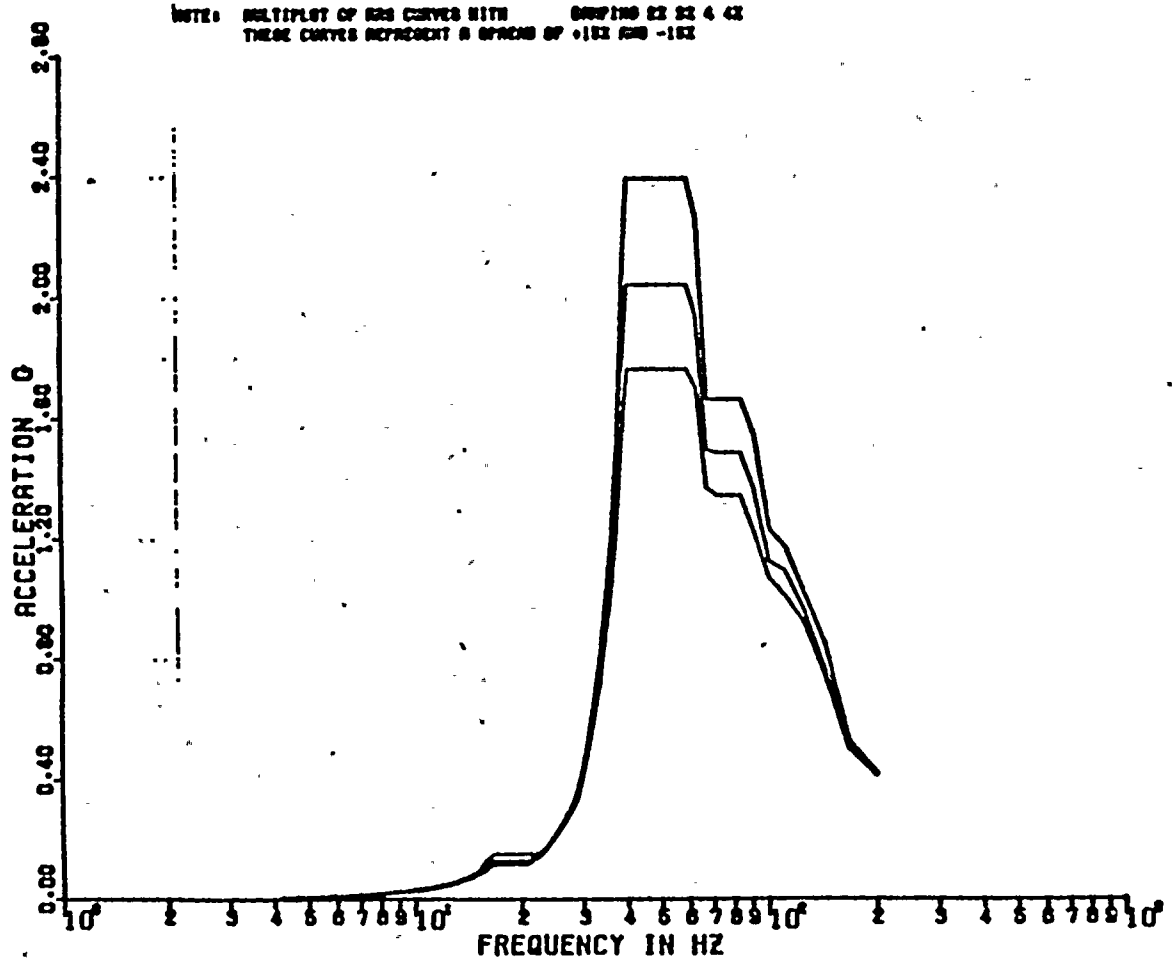
PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION PRIMARY CONT. (ELEV. 306.50 FT)

MICHAEL K BO

DISK CURVE SET NO.50 HCR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 186

MS 1237

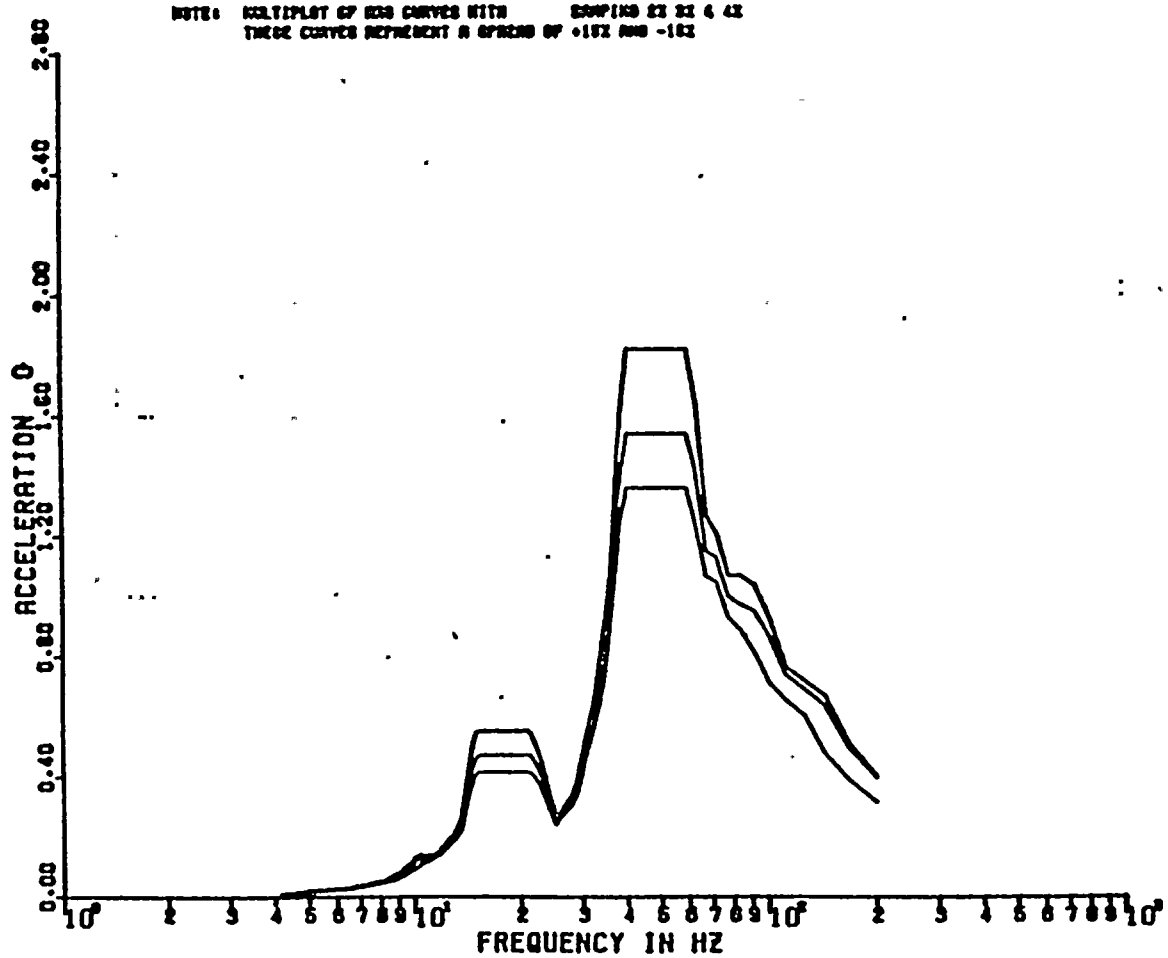
PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1757-0
RMS OF ACCELERATION PRIMARY CONT. (ELEV. 303.38 FT)

MICHAEL'N 00

DISK CURVE SET NO.33 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF 030 CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +18% AND -18%



MS 1757

REF 186

PAGE # 87

PSPECTRA VER 01 LEV 00 CHUGGING LOADING CASE 9 DEC 1982

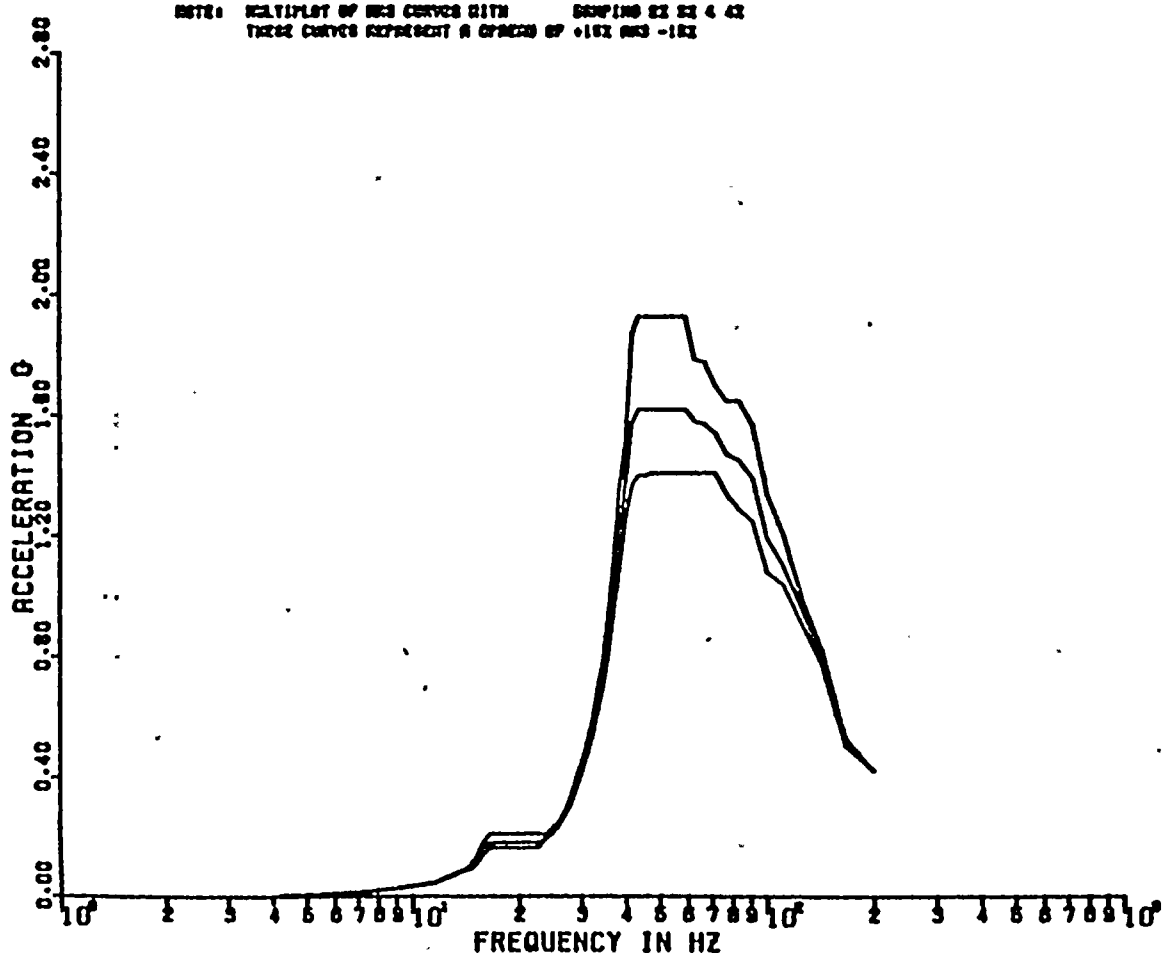
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0

RMS OF ACCELERATION PRIMARY CONT. (ELEV. 316.25 FT)

MICHAEL K 00

DISK CURVE SET NO.59 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

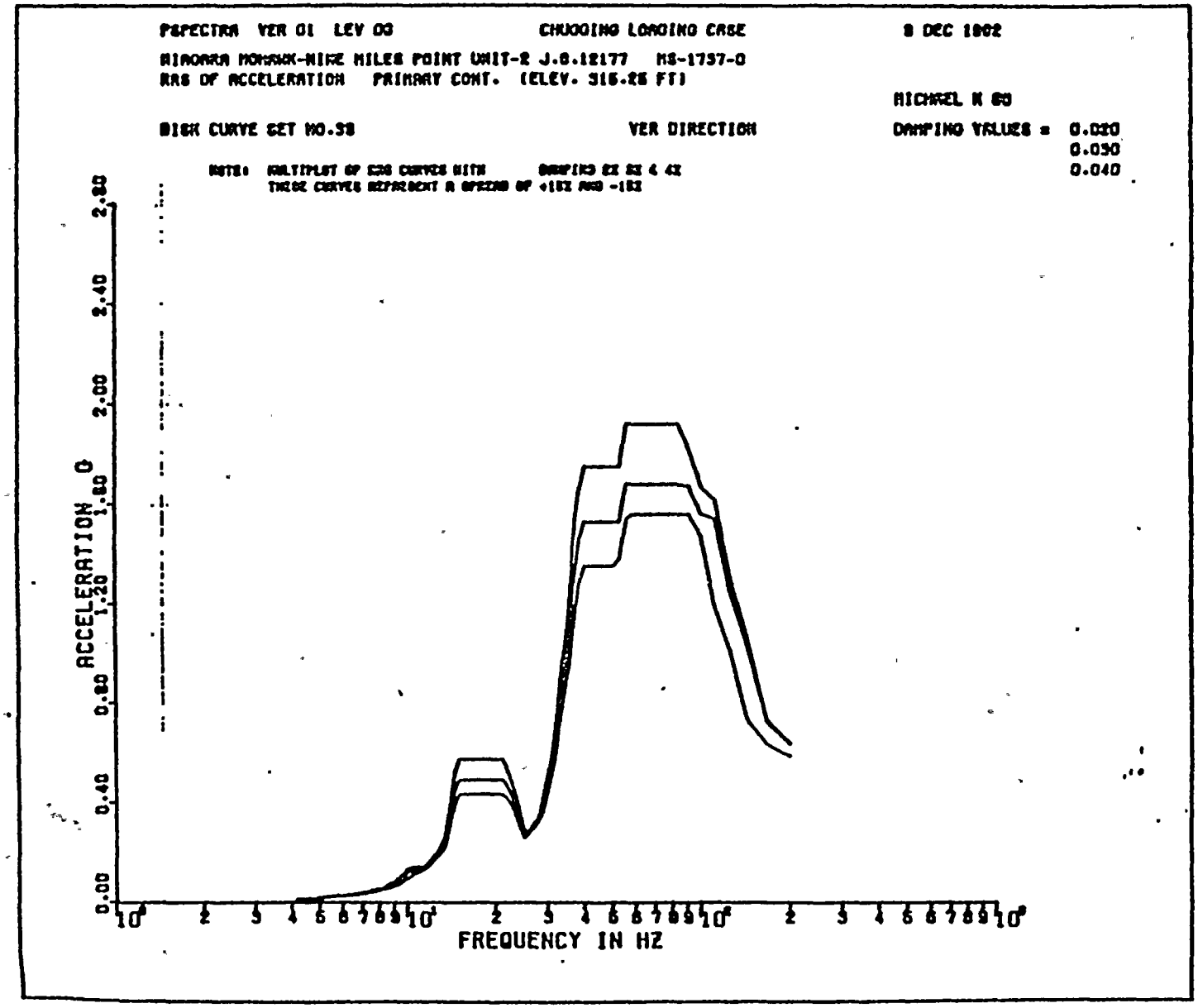
NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING SET SET 4 42
THESE CURVES REPRESENT A SPREAD OF +1SD RMS -1SD



MS 1737

REF 187

PAGE # 88



REF 187

MS 1737

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PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0

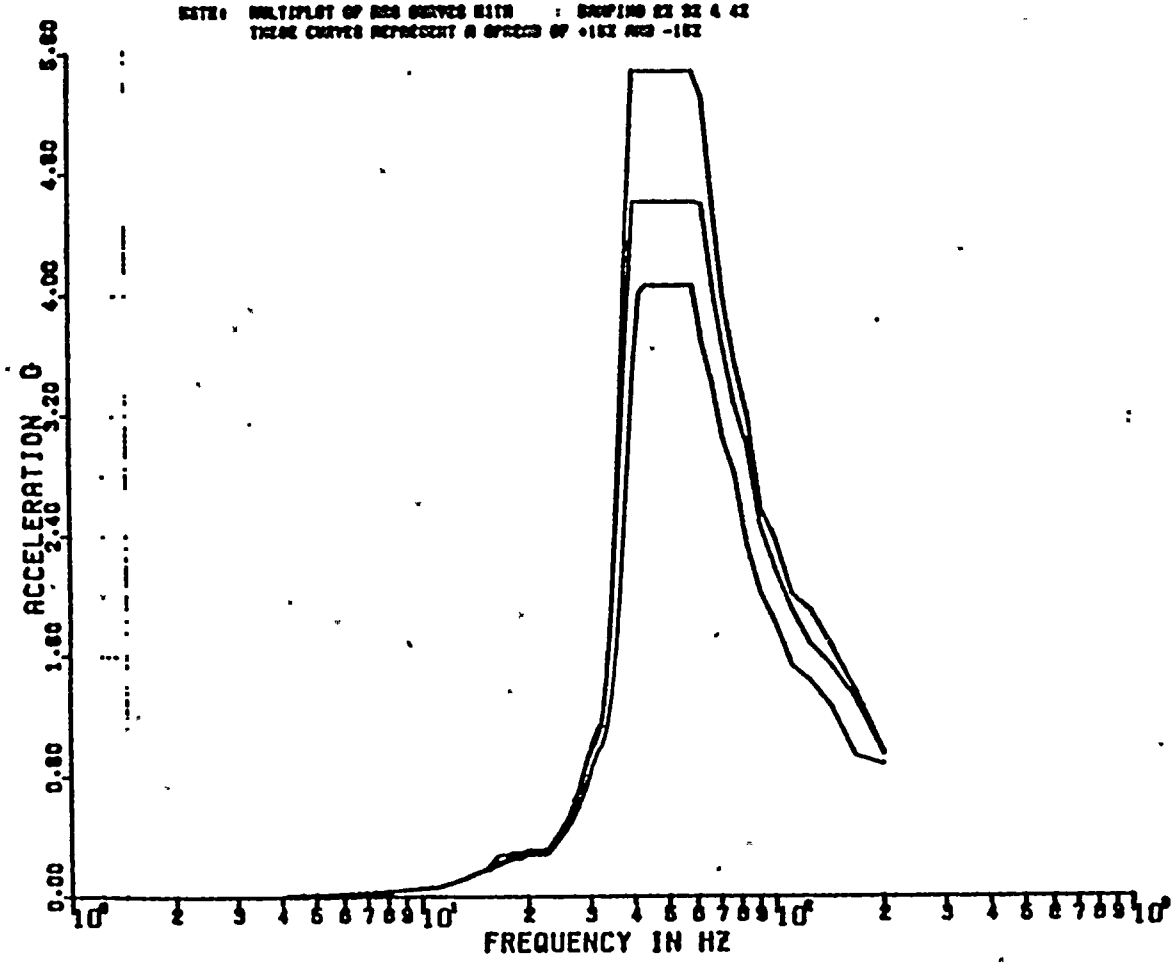
RMS OF ACCELERATION PRIM. CONT. TOP (ELEV.328.03 FT)

MICHAEL K 89

DISK CURVE SET NO.40 HOR DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH : DAMPING EQ 2 3 & 4 %
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 188

MS 1737

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PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

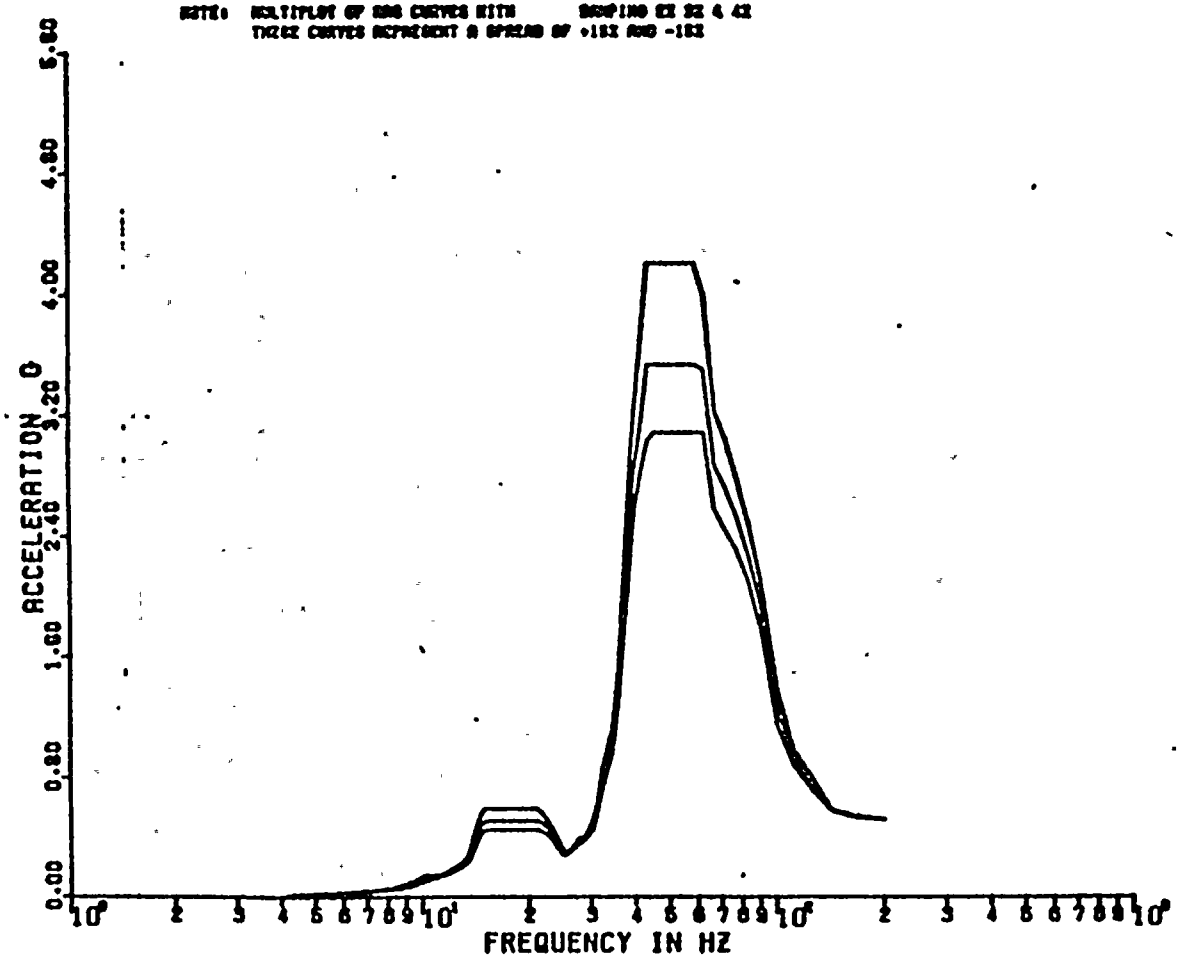
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0

RRS OF ACCELERATION PRIM. CONT. TOP (ELEV.328.83 FT)

MICHAEL K GO

DISK CURVE SET NO.48 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLY OF RRS CURVES WITH DAMPING EX 32 4 42
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



MS 1737

REF 188

PAGE # 91

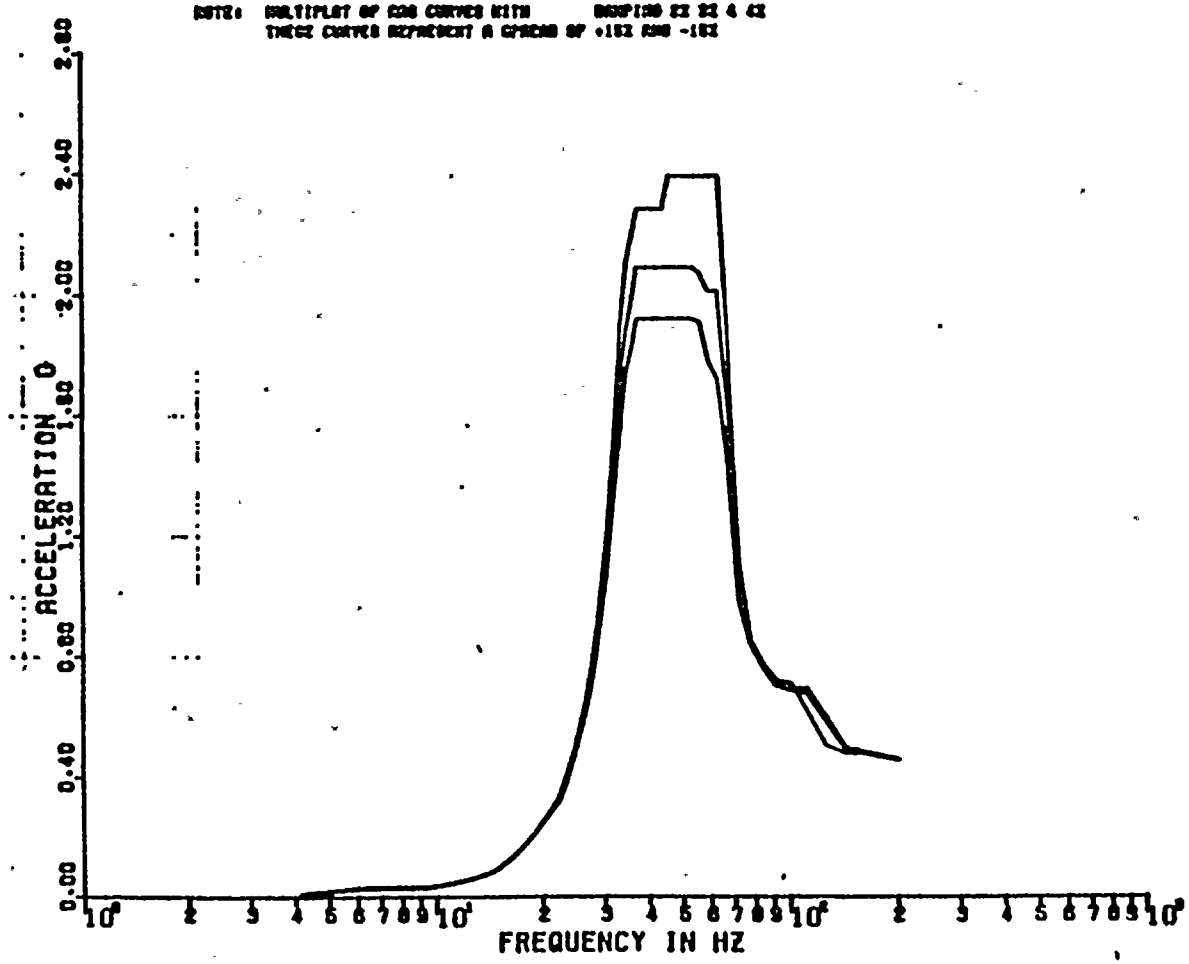
PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION SHIELD WALL OUT (ELEV.316.25 FT)

MICHAEL K CO

DISK CURVE SET NO.41 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF 030 CURVES WITH DAMPING 22 22 4 42
THESE CURVES REPRESENT A GROUP OF +1SD AND -1SD



REF 189

MS 1737

PAGE # 92

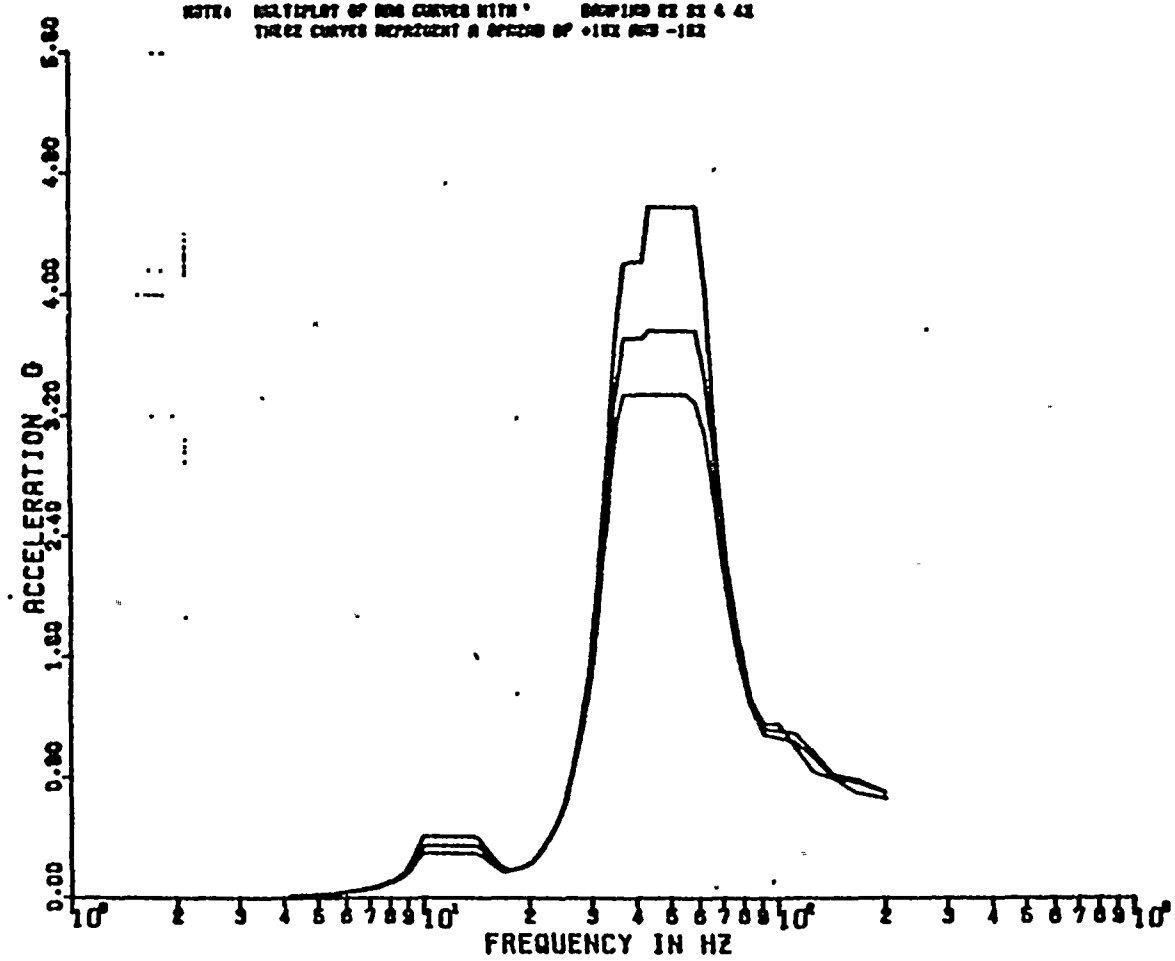
SPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION SHIELD WALL OUT (ELEV.315.25 FT)

MICHAEL K 08

DISK CURVE SET NO.41 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH * DAMPING EQ TO 4 41
THREE CURVES REPRESENT A SPECTRUM OF +10% AND -10%



MS 1737

REF # 189

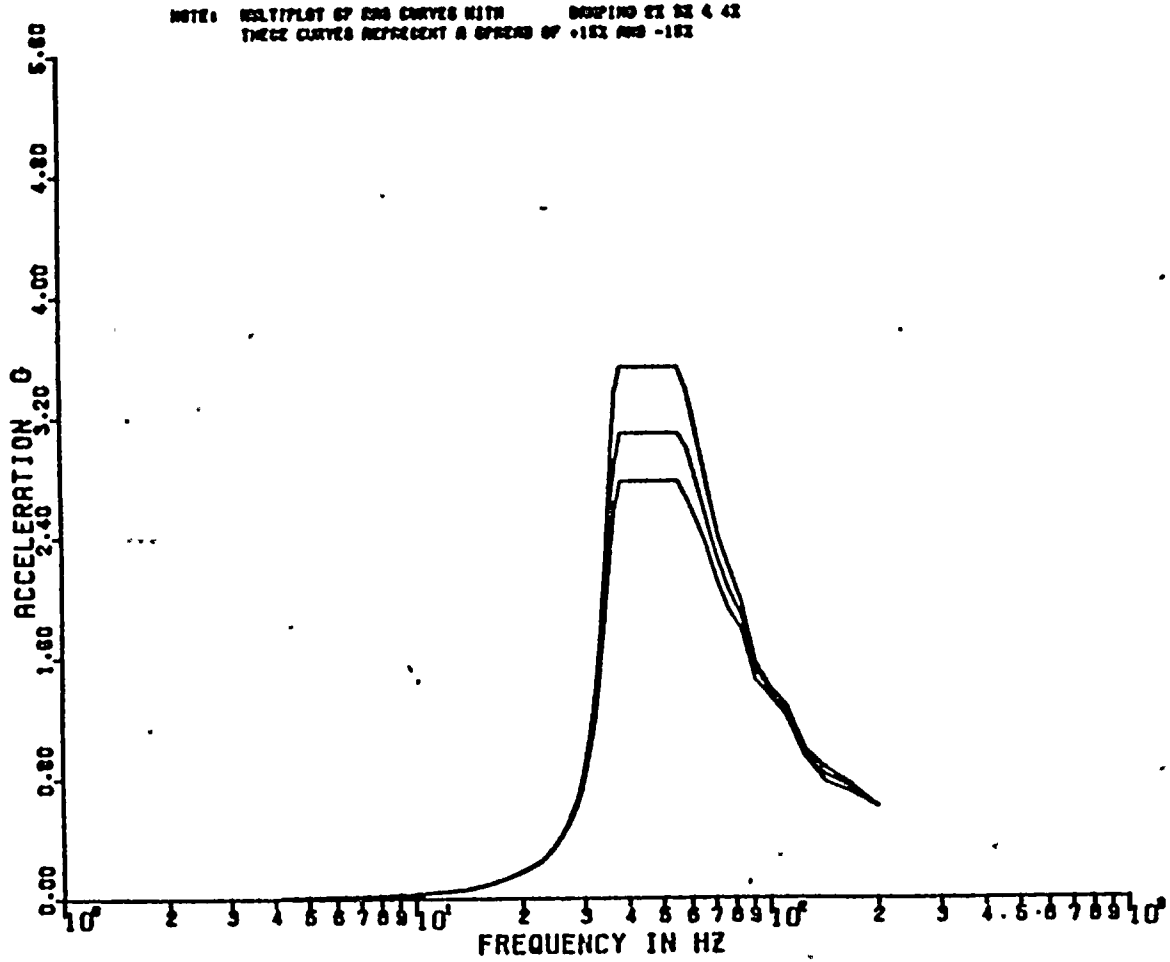
PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

MIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RRS OF ACCELERATION PEDESTAL TOP (ELEV.266.54 FT)

MICHAEL K OO

DISK CURVE SET NO.42 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING EX 2X 4 4X
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



MS 1737

REF 190

PAGE # 94

PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1992

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0

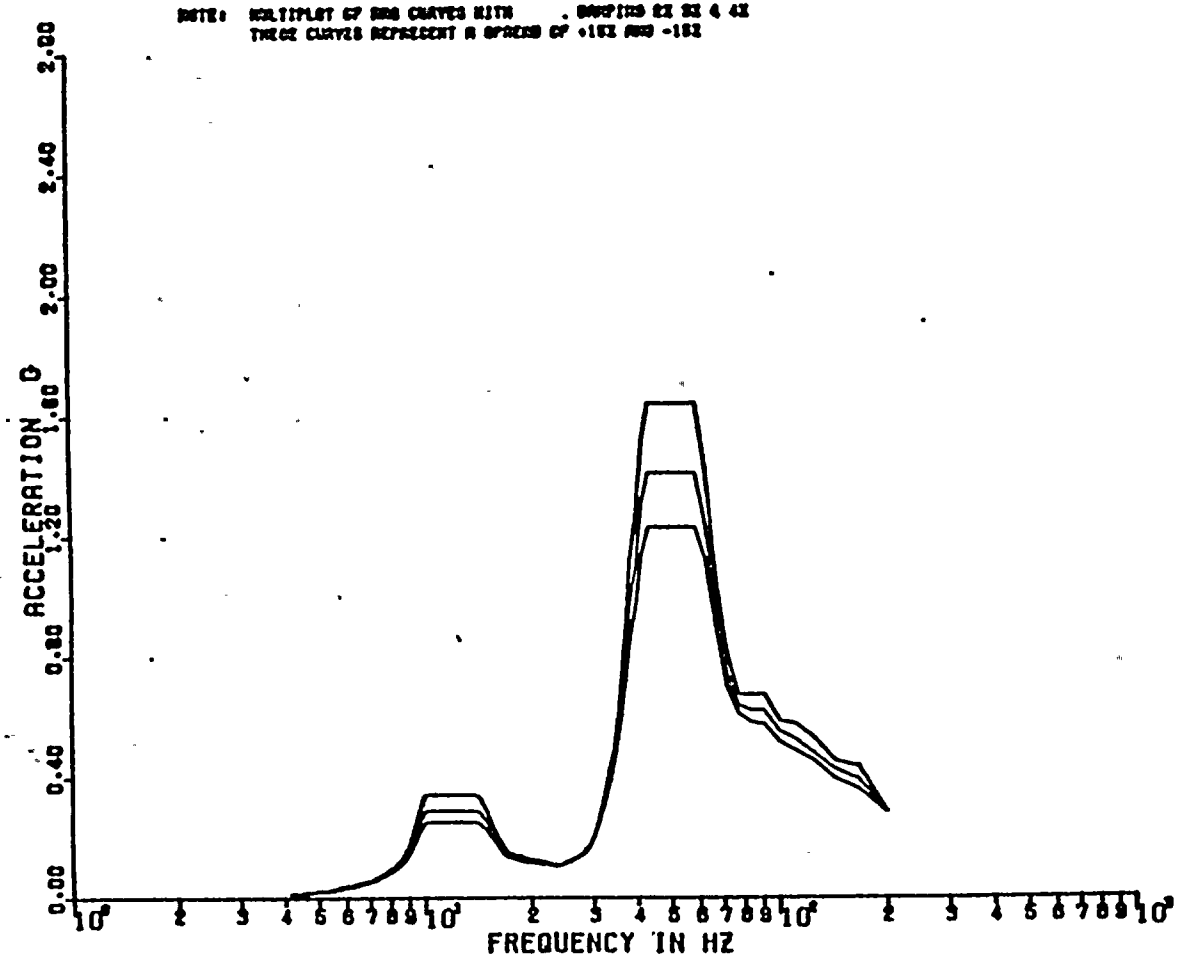
RMS OF ACCELERATION PEDESTAL TOP (ELEV.268.54 FT)

MICHAEL K CO

DISK CURVE SET NO.42 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH . DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +1SD AND -1SD



MS 1737

REF 190

P&PECTRA VER 01 LEV 00 CHUGGING LOADING CASE 9 DEC 1982

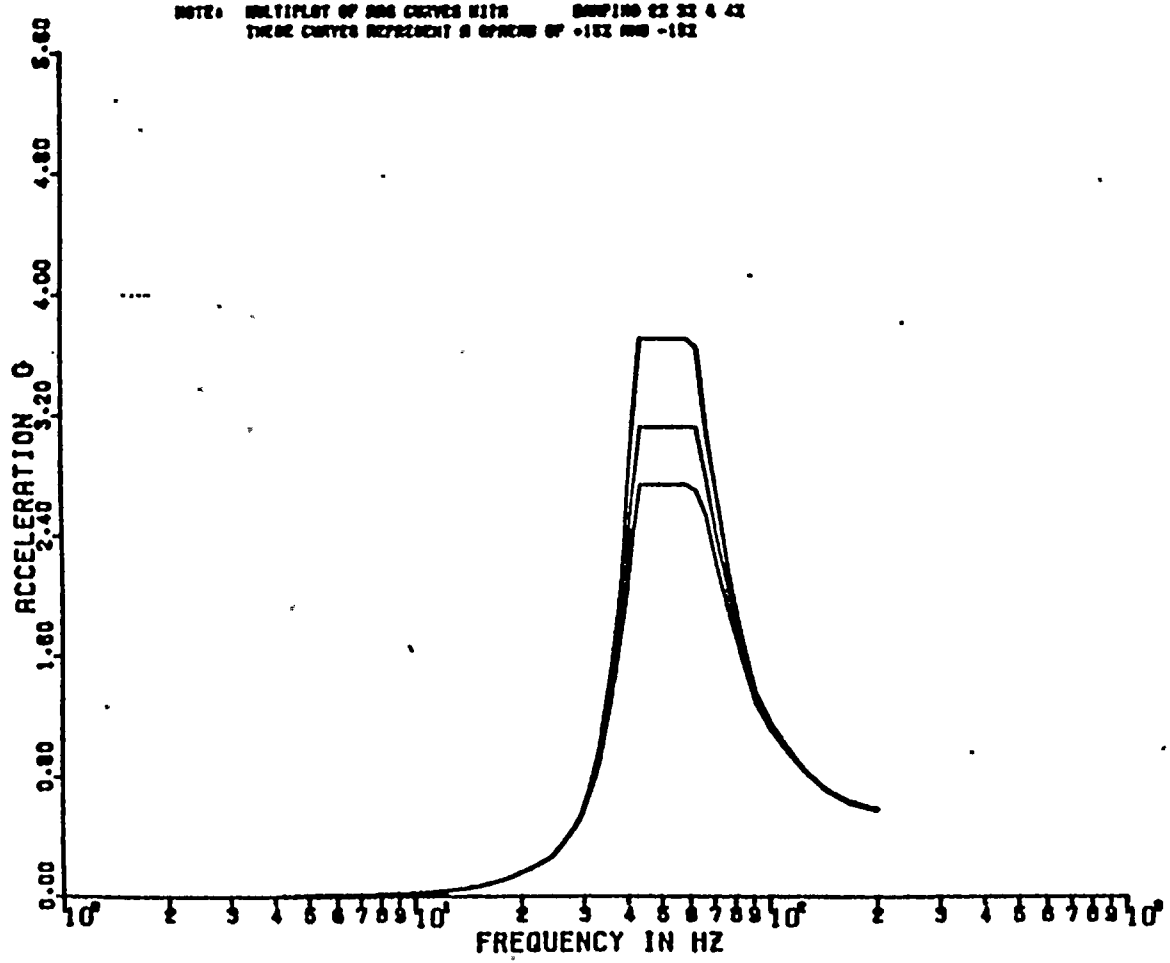
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION SHIELD WALL OUT (ELEV.278.28 FT)

MICHAEL K GO

DISK CURVE SET NO.43 HOR DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING EQ 2% 3% & 4%
THESE CURVES REPRESENT A SPACING OF +18% AND -18%



REF 191

MS 1737

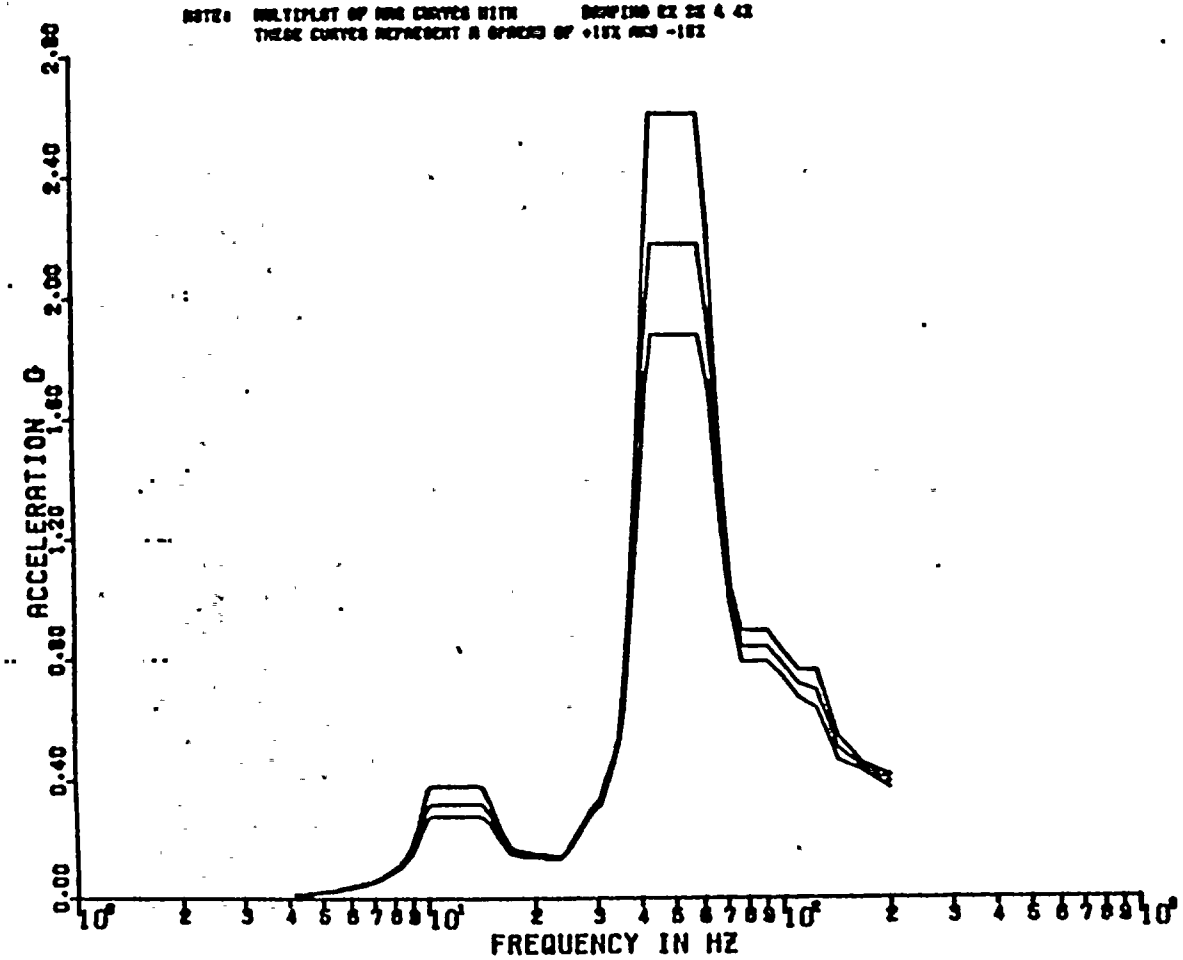
PSPECTRN VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION SHIELD WALL OUT (ELEV.278.28 FT)

MICHAEL K OO

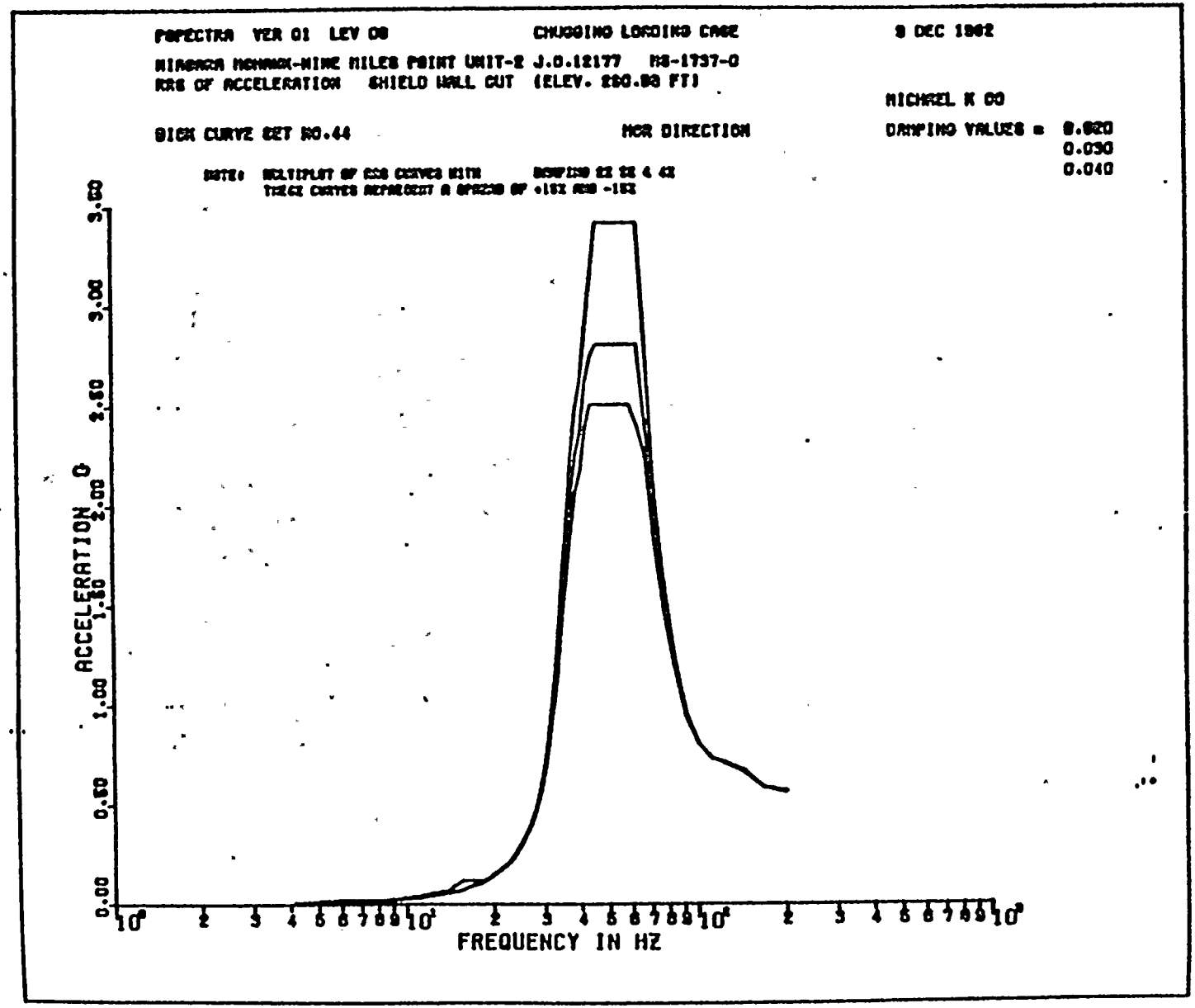
DISK CURVE SET NO.43 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING EX 2% & 4%
THESE CURVES REPRESENT A SPACING OF +15% AND -15%



REF 131

MS 1737



MS 1737

REF 162

PSPECTRA VER 01 LEV 08 CHUGOINO LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0

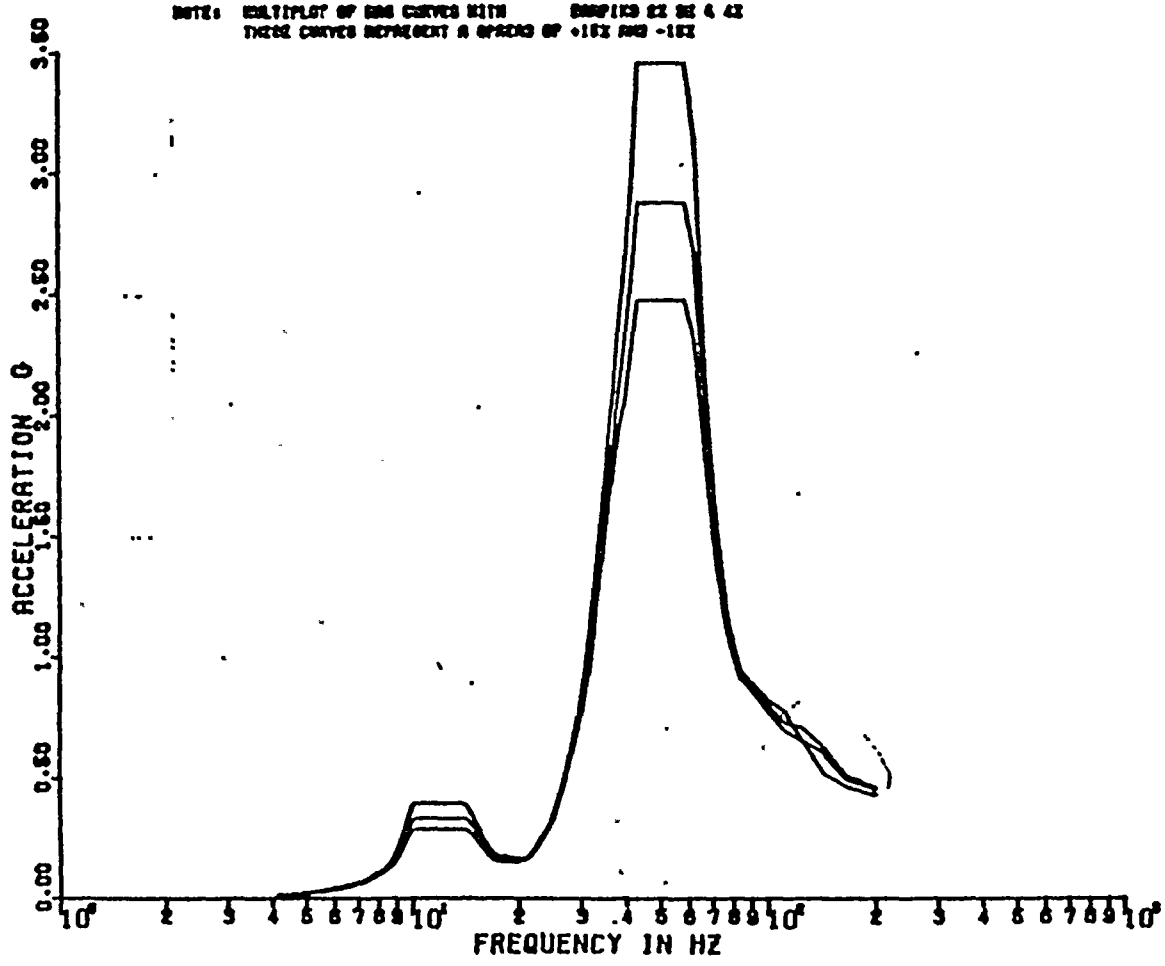
RMS OF ACCELERATION SHIELD WALL OUT (ELEV. 280.83 FT)

MICHAEL K 08

DISK CURVE SET NO.44 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING EQ 02 & 42
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 192

MS 1737

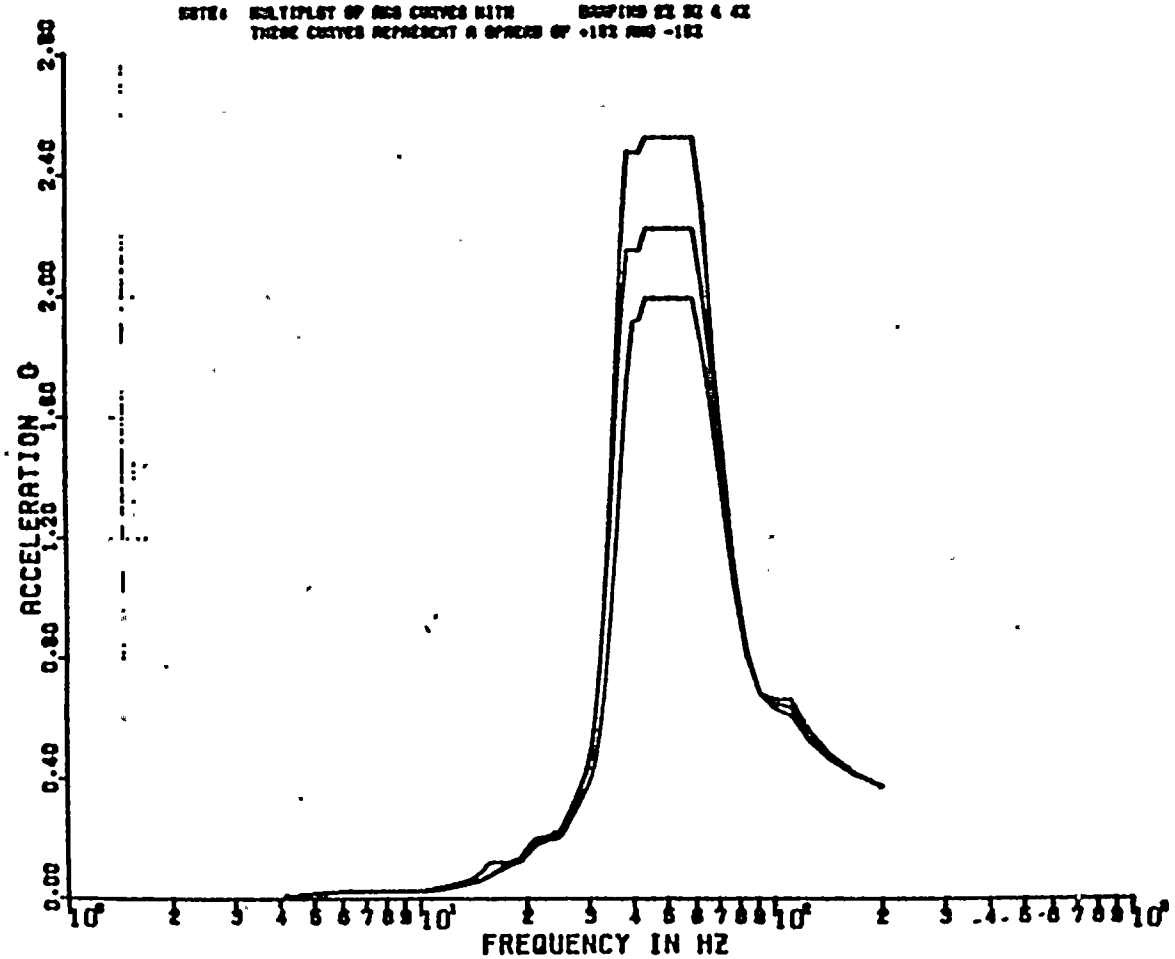
PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION SHIELD WALL OUT (ELEV.300.82 FT)

MICHAEL K OO

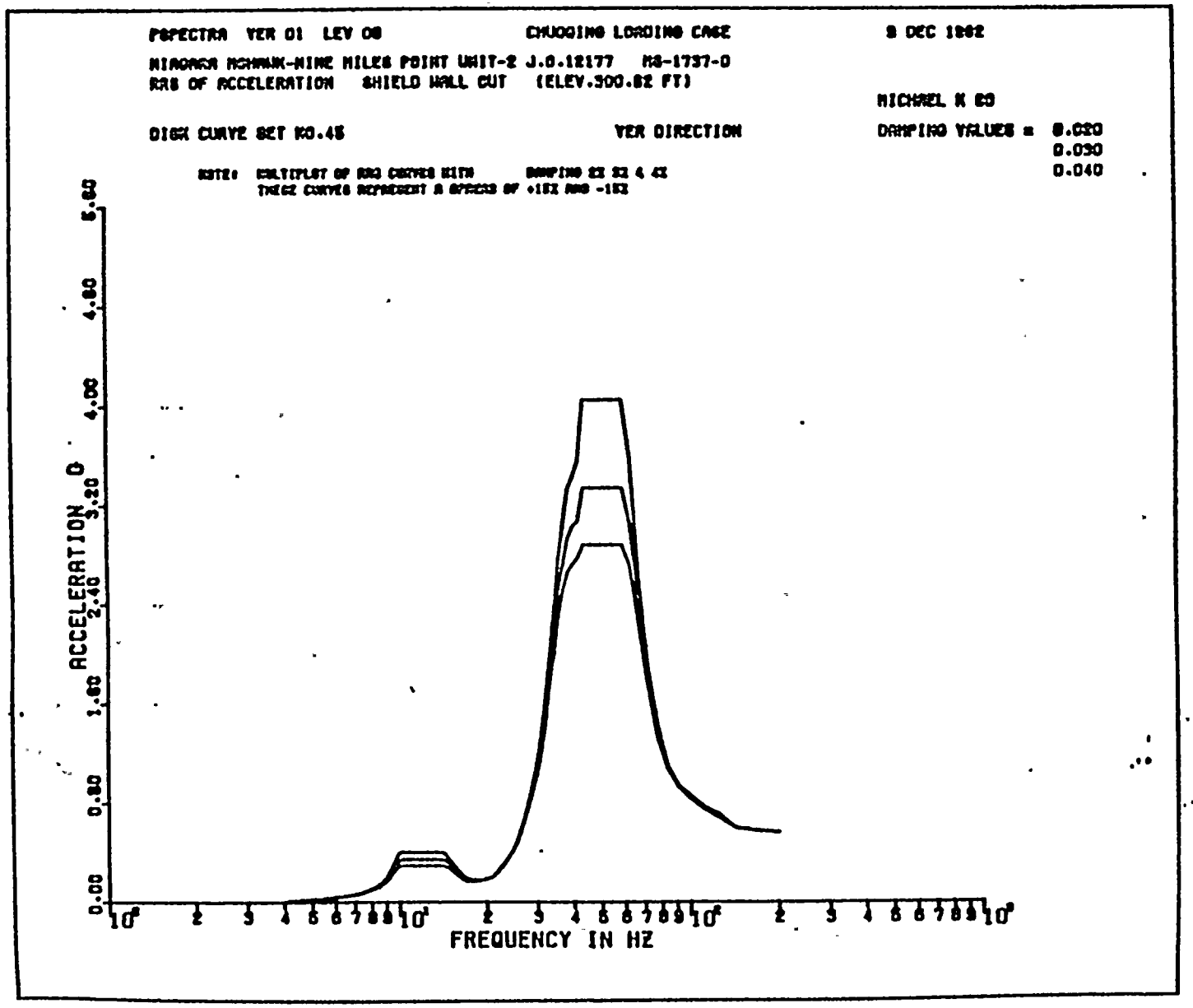
DISK CURVE SET NO.45 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 193

MS 1737



REF 1/03

MS 1232

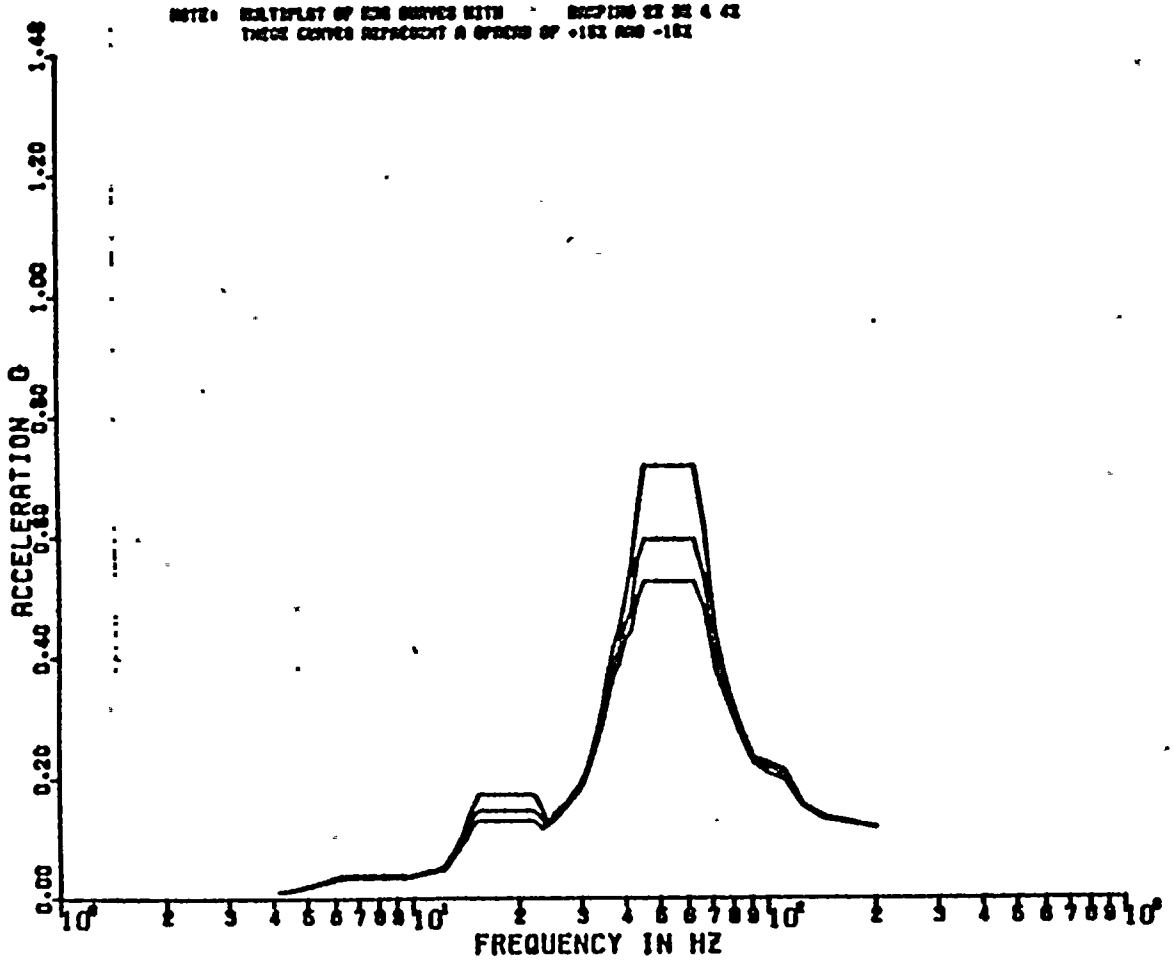
PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 8 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION RPV SHELL (ELEV.315.08 FT)

MICHAEL K GO

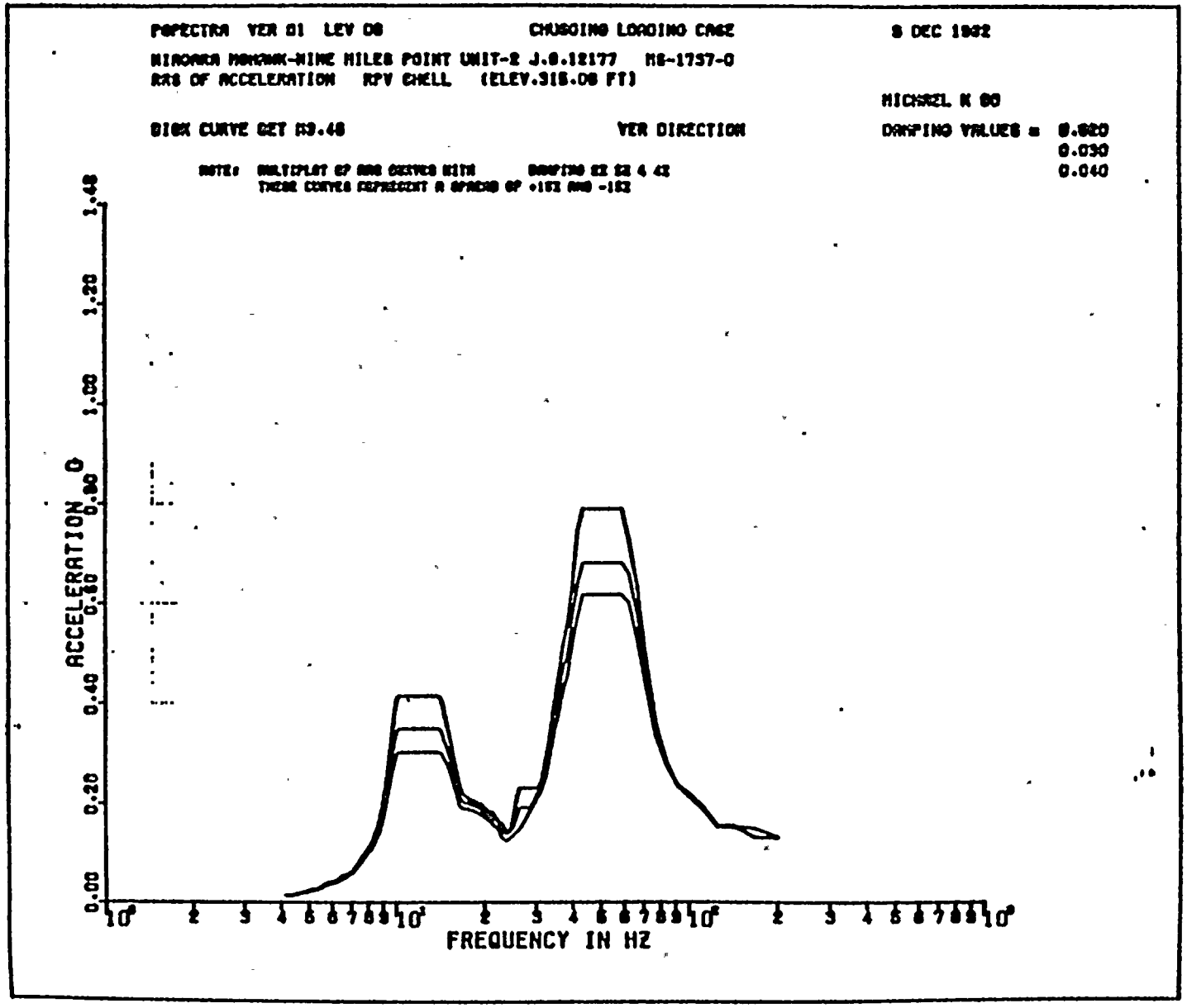
DISK CURVE SET M3.48 MAX DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF 3CM CURVES WITH DAMPING OF 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



MS 1737

REF 194



MS 1737

REP 194

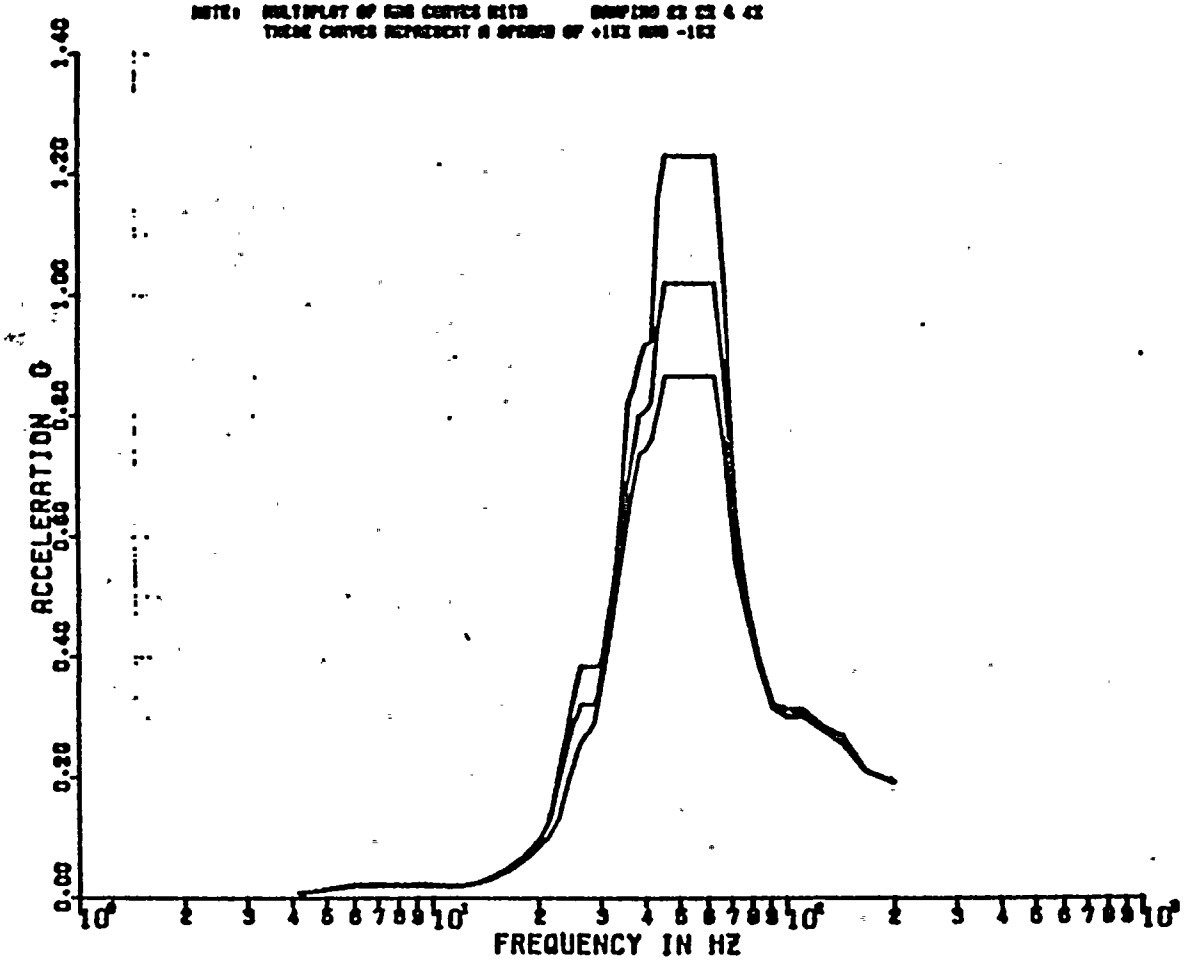
PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 8 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION RPV SHELL (ELEV.281.74 FT)

MICHAEL K BB

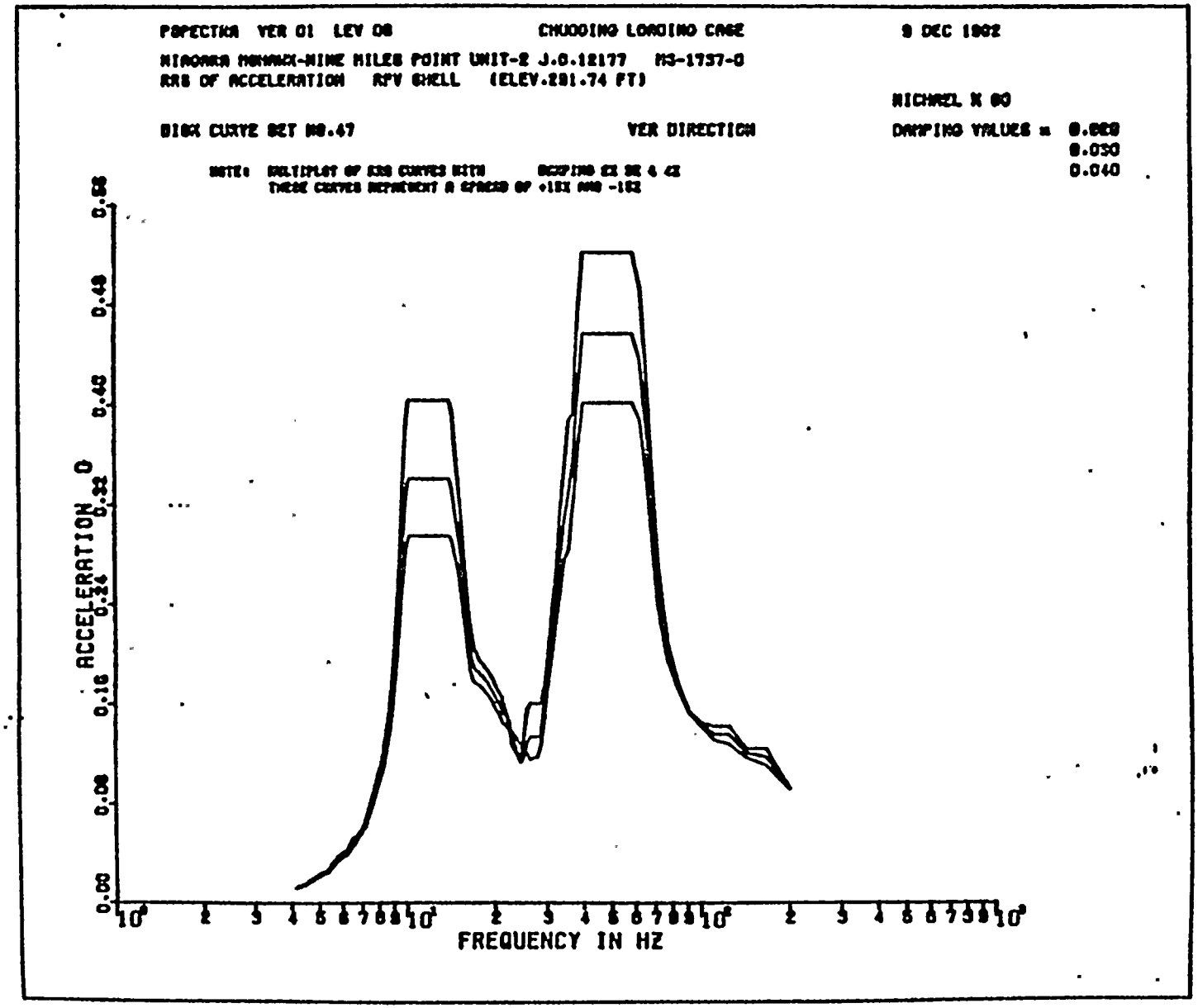
RISK CURVE CET NO.47 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF 3CHS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +1SD AND -1SD



MS 1737

REF 125



MS 1737

REF 185

SOURCE: PAGE # 105

SPECTRA VER 01 LEV 00 CHUGGING LOADING CASE 9 DEC 1982

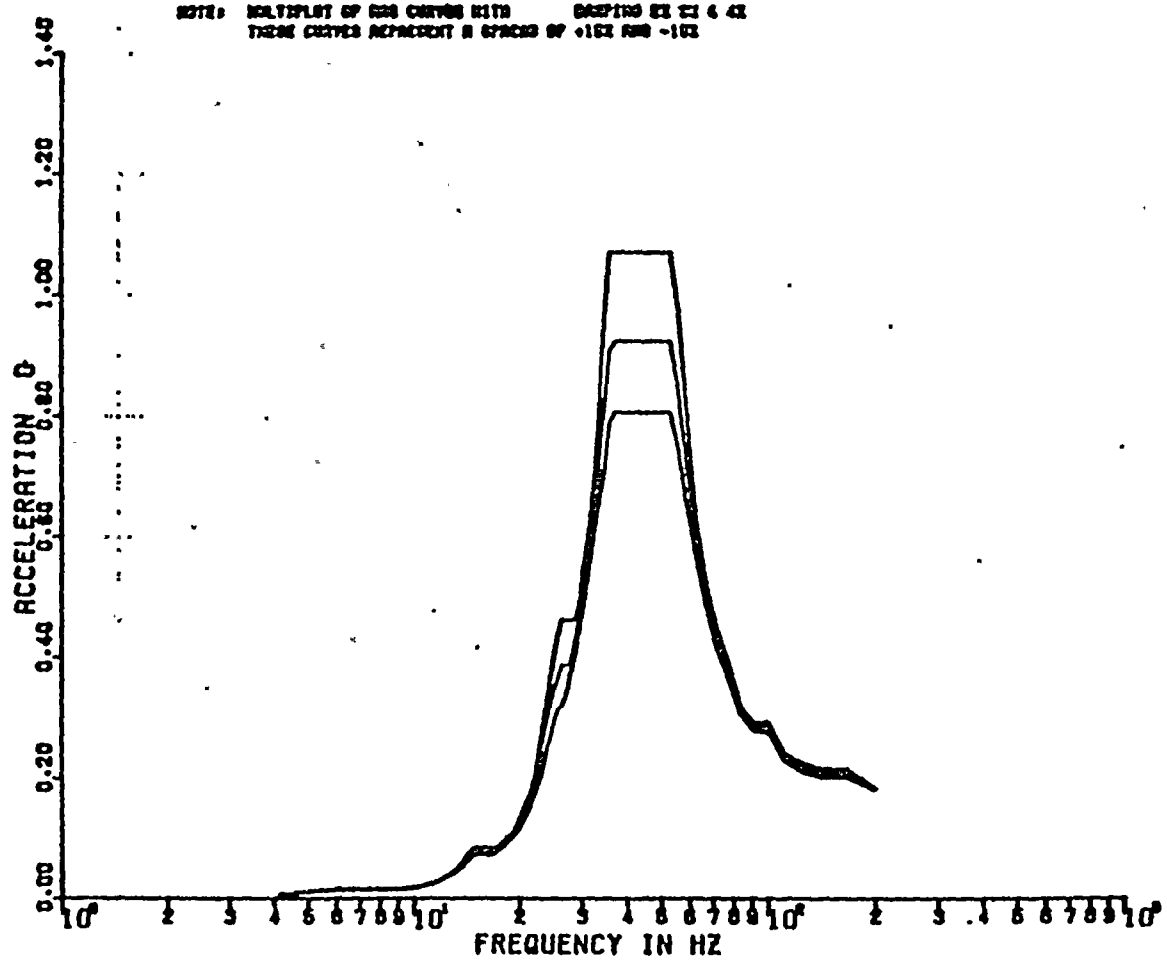
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0

RMS OF ACCELERATION RPV SHELL (ELEV.278.11 FT)

MICHAEL K 00

SIGN CURVE SET 00.40 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLIT OF RMS CURVES WITH DAMPING RE 2% & 4%
THESE CURVES REPRESENT A SPACING OF +15% AND -10%



REF 1/96

MS 1737

PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

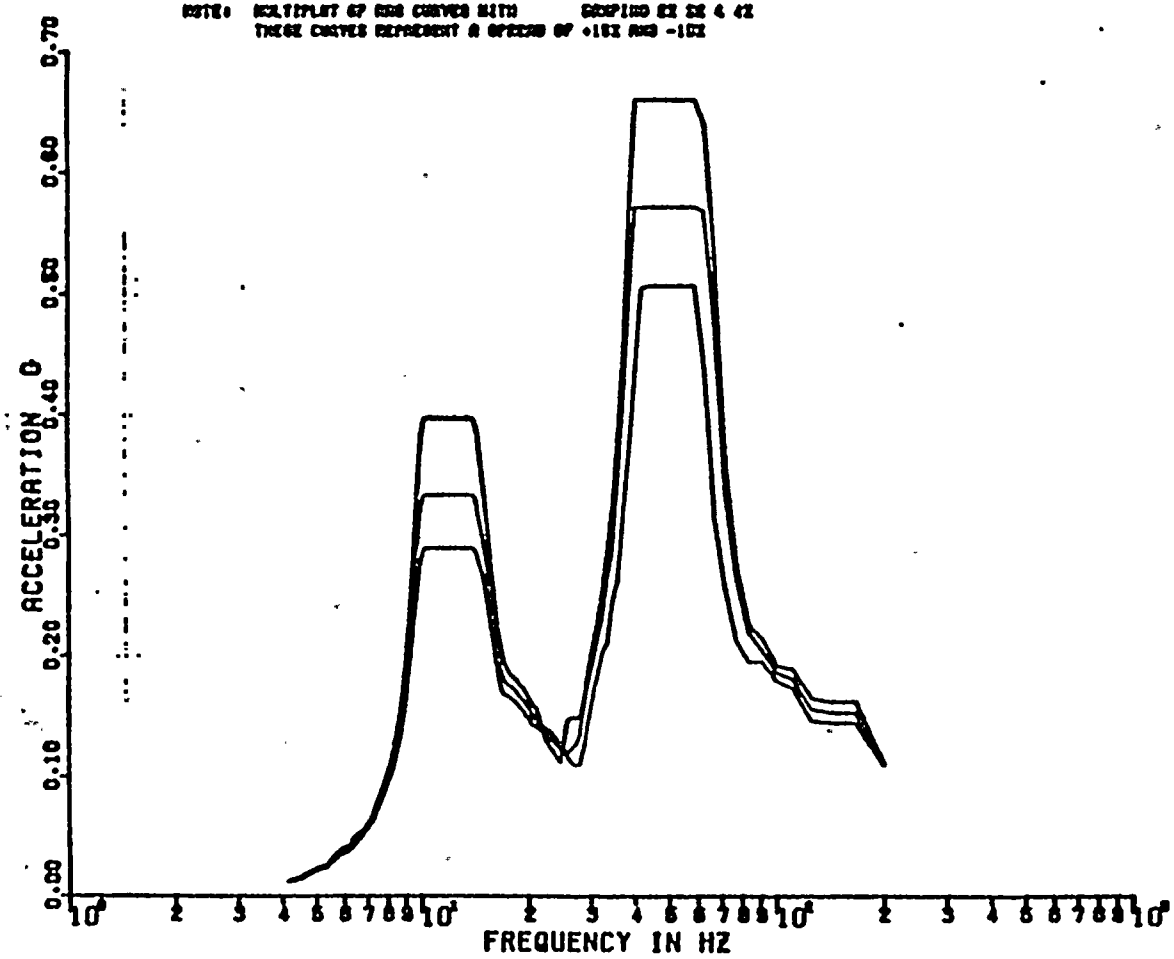
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.18177 NS-1757-0
RMS OF ACCELERATION RPV SHELL (ELEV.278.11 FT)

NICHOLL R 09

BIGX CURVE SET NO.49 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLIT BY RMS CURVES WITH DAMPING EX 2X 4 4X
THESE CURVES REPRESENT A SPEEDUP OF +10% AND -10%



MS 1737

REF 196

PSPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

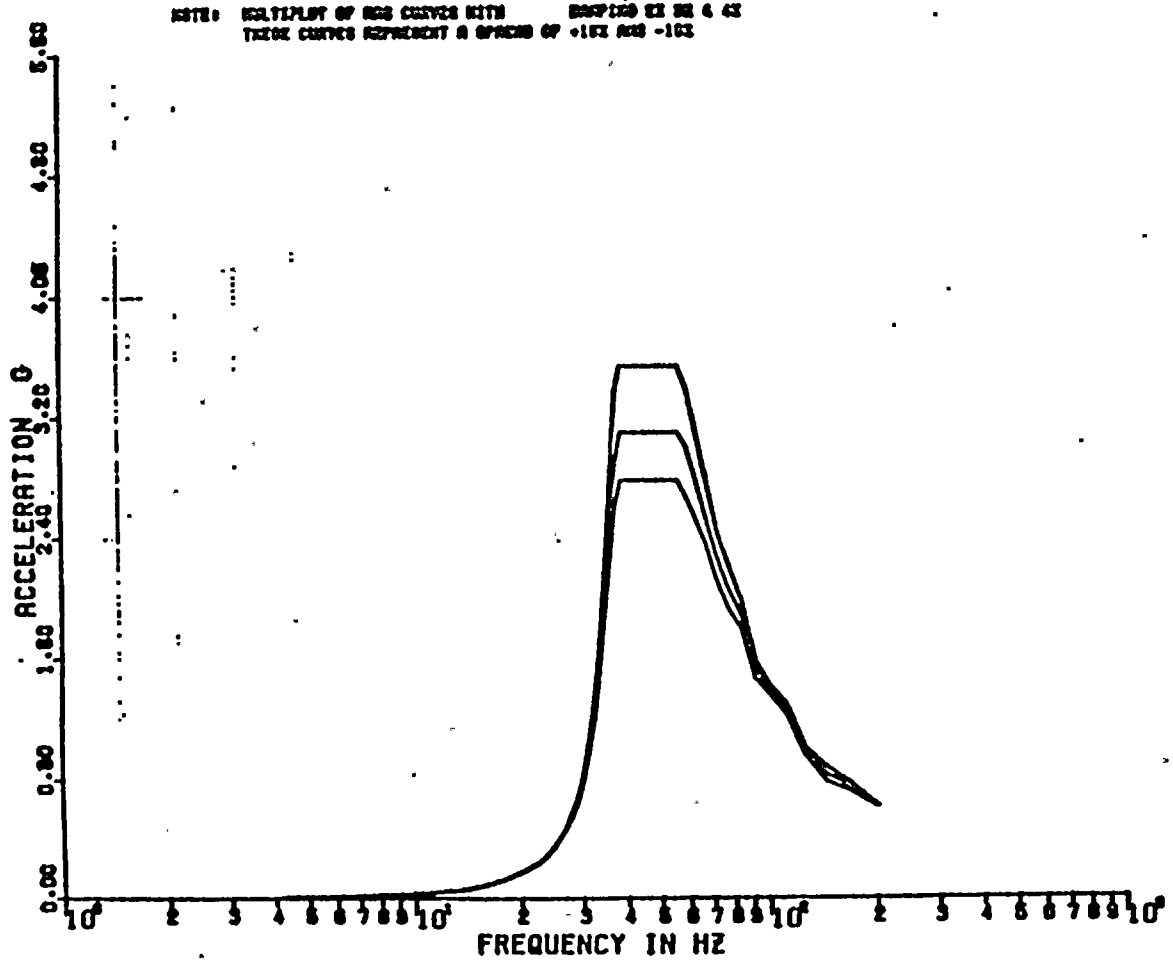
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RRS OF ACCELERATION RPV SHELL (ELEV.288.84 FT)
DOO SERIES CHUGGING LOADS

MICHAEL K CO

BICK CURVE CET NO.48 HOR DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING EQ 2% & 4%
THICK CURVES REPRESENT A SPACING OF +10% AND -10%



MS 1232

REF 197

POPECTRA VER 01 LEV 08 CHUGGING LOADING CASE 9 DEC 1982

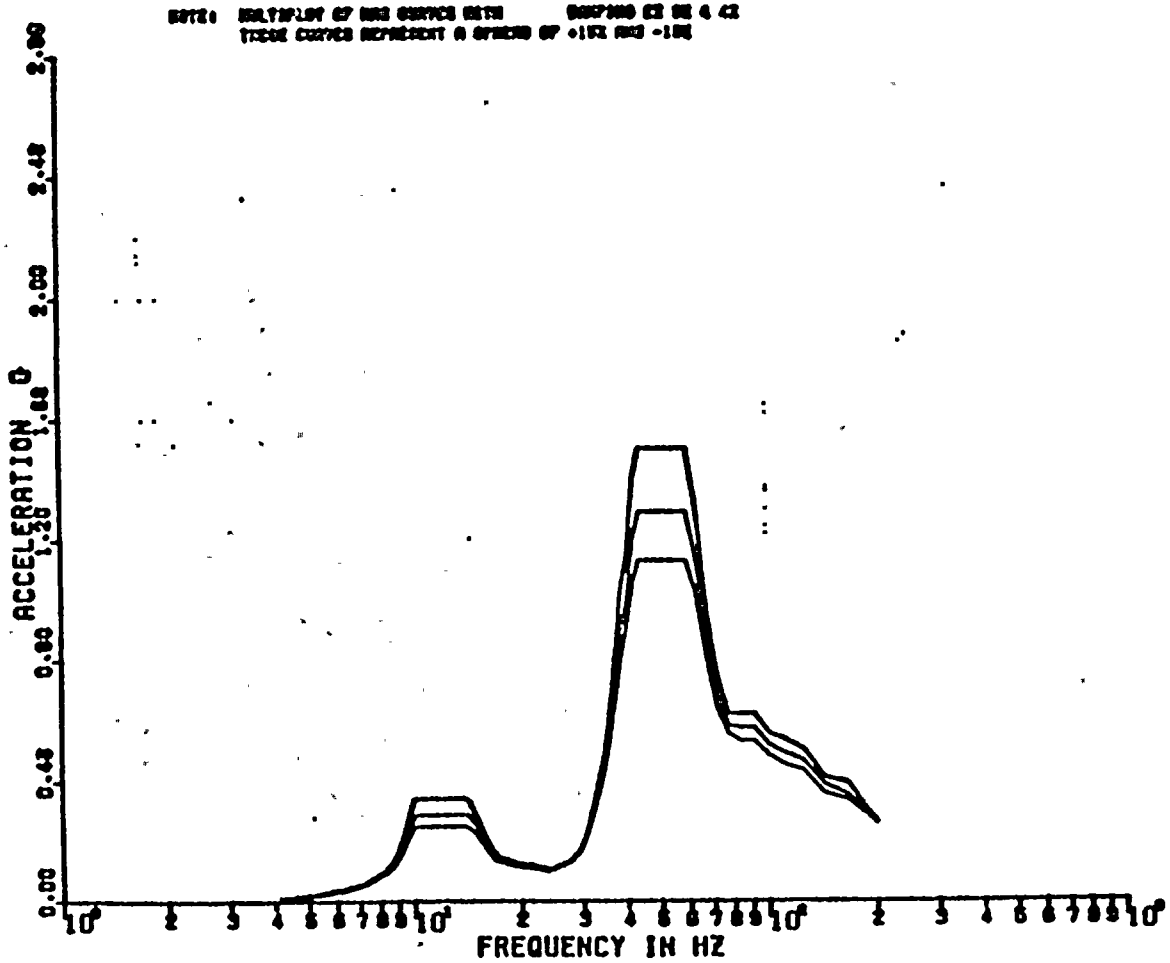
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1737-0
RMS OF ACCELERATION RPV SHELL (ELEV.268.54 FT)
800 SERIES CHUGGING LOADS

MICHAEL K 69

BIEK CURVE SET MS.49 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLY BY RMS SURFACE WATER DAMPING EQ DE 4.42
THESE CURVES REPRESENT A SPREAD OF +1SX AND -1SX



REF 197

MS 1737

NMP2

SRV

REQUIRED RESPONSE SPECTRA FOR THE
REACTOR BUILDING

Hydrodynamic - SRV

Required Response Spectra (RRS)
for the Reactor Building

Mass Point - Location	Elev (ft)	Reference No.*
064 - Center of Mat	170.00	99
071 - Mat (R=29.81 ft)	170.00	100
077 - Mat (R=66.375 ft)	170.00	101
078 - Pedestal at Mat	176.00	102
079 - Primary Containment @ Mat	176.00	103
080 - Secondary Containment @ Mat	175.00	104
082 - Primary Containment	180.80	105
084 - Pedestal	185.60	106
085 - Primary Containment	185.60	107
088 - Primary Containment	190.40	108
091 - Primary Containment	195.20	109
092 - Secondary Containment	261.00	111
093 - Pedestal, W. L.	201.00	112
094 - Primary Containment, W. L.	201.00	113
095 - Secondary Containment	289.00	114
097 - Primary Containment	206.11	115
100 - Primary Containment	212.22	116
102 - Pedestal	217.50	117
103 - Primary Containment	218.33	118
104 - Top of Secondary Containment	386.83	119
106 - Primary Containment	224.88	120
107 - Primary Containment	231.44	121
108 - Pedestal	230.50	122
110 - Drywell Fl @ Center Line	230.50	123
111 - Drywell Fl/Primary Containment	238.00	124
114 - Drywell Floor	238.00	125
116 - Drywell Floor/Pedestal	238.00	126
117 - Primary Containment	243.33	127
119 - Primary Containment	248.66	128
121 - Primary Containment	254.00	129
122 - Pedestal	254.00	130
123 - Primary Containment	259.33	131
127 - Primary Containment	270.00	132
128 - Primary Containment	275.33	133
130 - Primary Containment	286.00	134
131 - Primary Containment	291.33	135
133 - Primary Containment	302.00	136
134 - Primary Containment	306.36	137
136 - Primary Containment	315.25	138
137 - Primary Containment Top	326.83	139
138 - Shield Wall Out	315.23	140

Hydrodynamic - SRV

Required Response Spectra (RRS)
for the Reactor Building

Mass Point - Location	Elev (ft)	Reference No.*
141 - Pedestal Top	266.54	141
145 - Shield Wall Out	276.28	142
151 - Shield Wall Out	290.89	143
156 - Shield Wall Out	300.62	144
161 - RPV Shell	315.08	145
163 - RPV Shell	291.74	146
164 - RPV Shell	278.11	147
165 - RPV Shell	266.54	148

*Each reference number includes an SRV envelope for horizontal and vertical direction at 1, 2, 3, and 4 percent damping.

PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

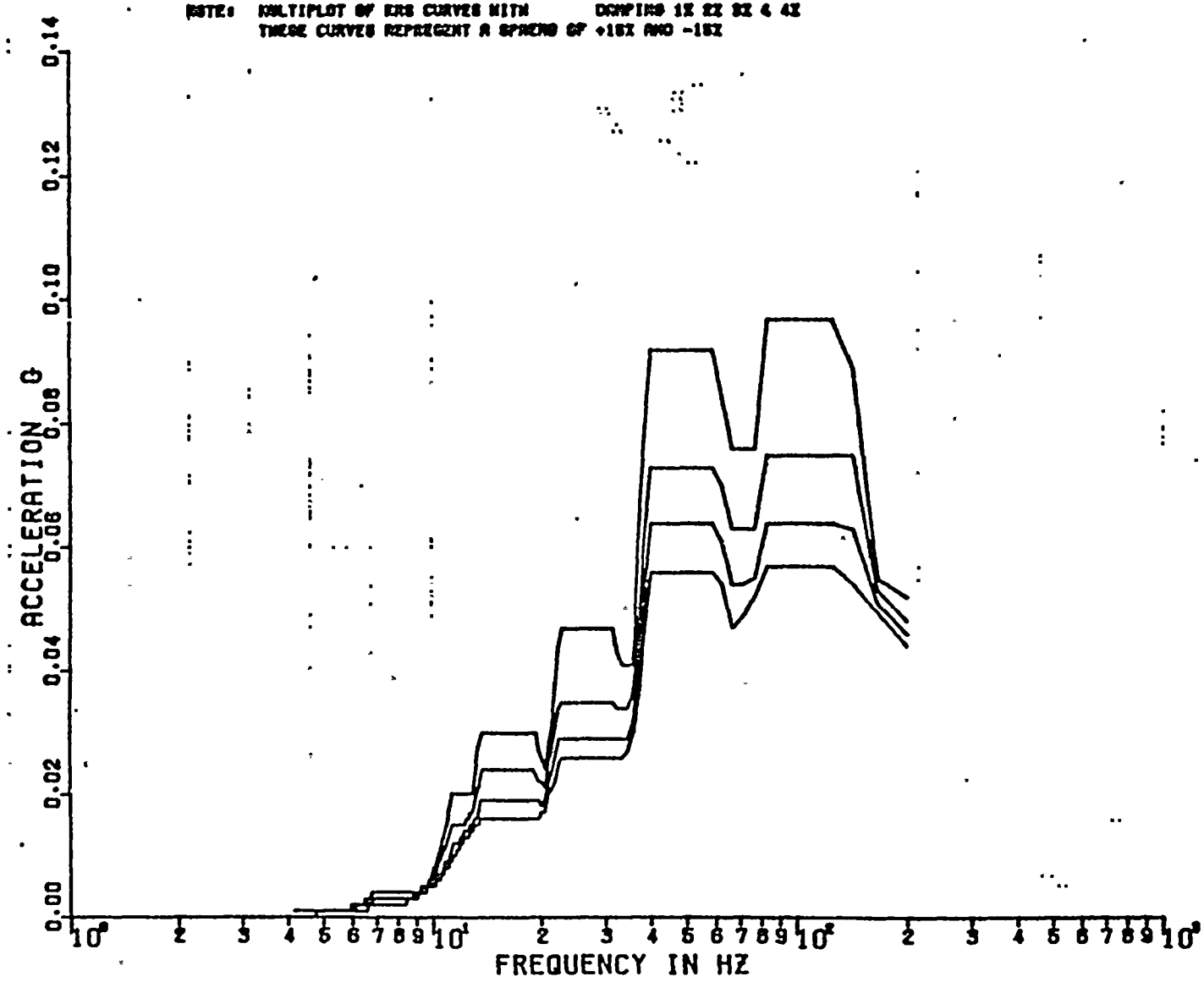
NIAGARA MOHAWK-NINE MILES UNIT POINT-2 J.O.12177 MS-1748-0
RRS OF ACCELERATION CENTER OF MAT (ELEV. 170 FT.)

MICHAEL K 68

DISK CURVE SET NO.1 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 89

PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

NIAGARA MOHAWK-NINE MILES UNIT POINT-2 J.O.12177 MS-1748-0

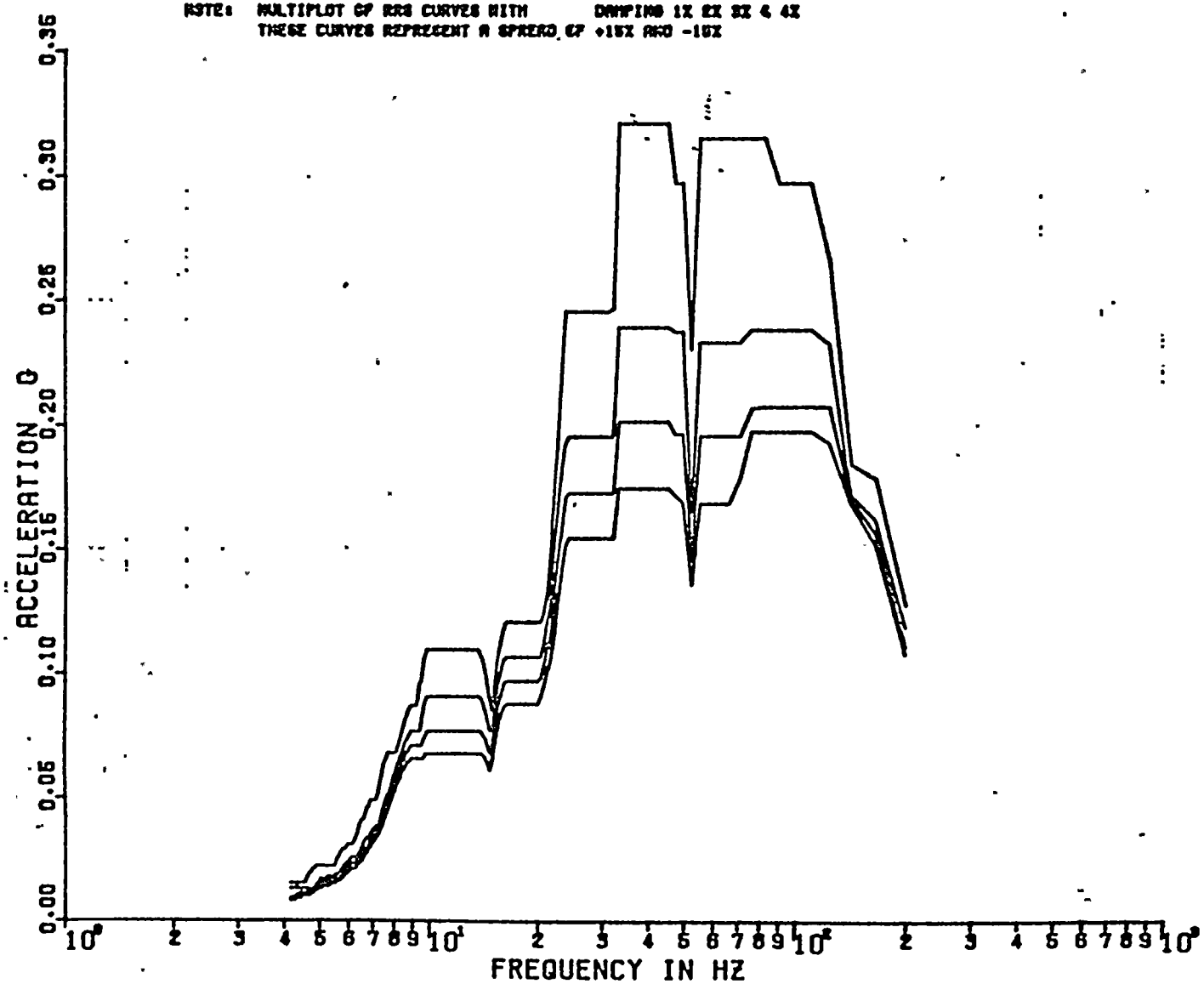
RRS OF ACCELERATION CENTER OF MAT (ELEV. 170 FT.)

MICHAEL K OO

DISK CURVE SET NO.1 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -10%



-13

REF 99

PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

MIDDOR MOHAWK-NINE MILES UNIT POINT-2 J.O.12177 NS-1748-8

RRS OF ACCELERATION MAT(R=28,81FT) (ELEV.170.6 FT)

NICHOLL K.ES

DISK CURVE SET NO.2 HOR DIRECTION DAMPING VALUES = 0.010

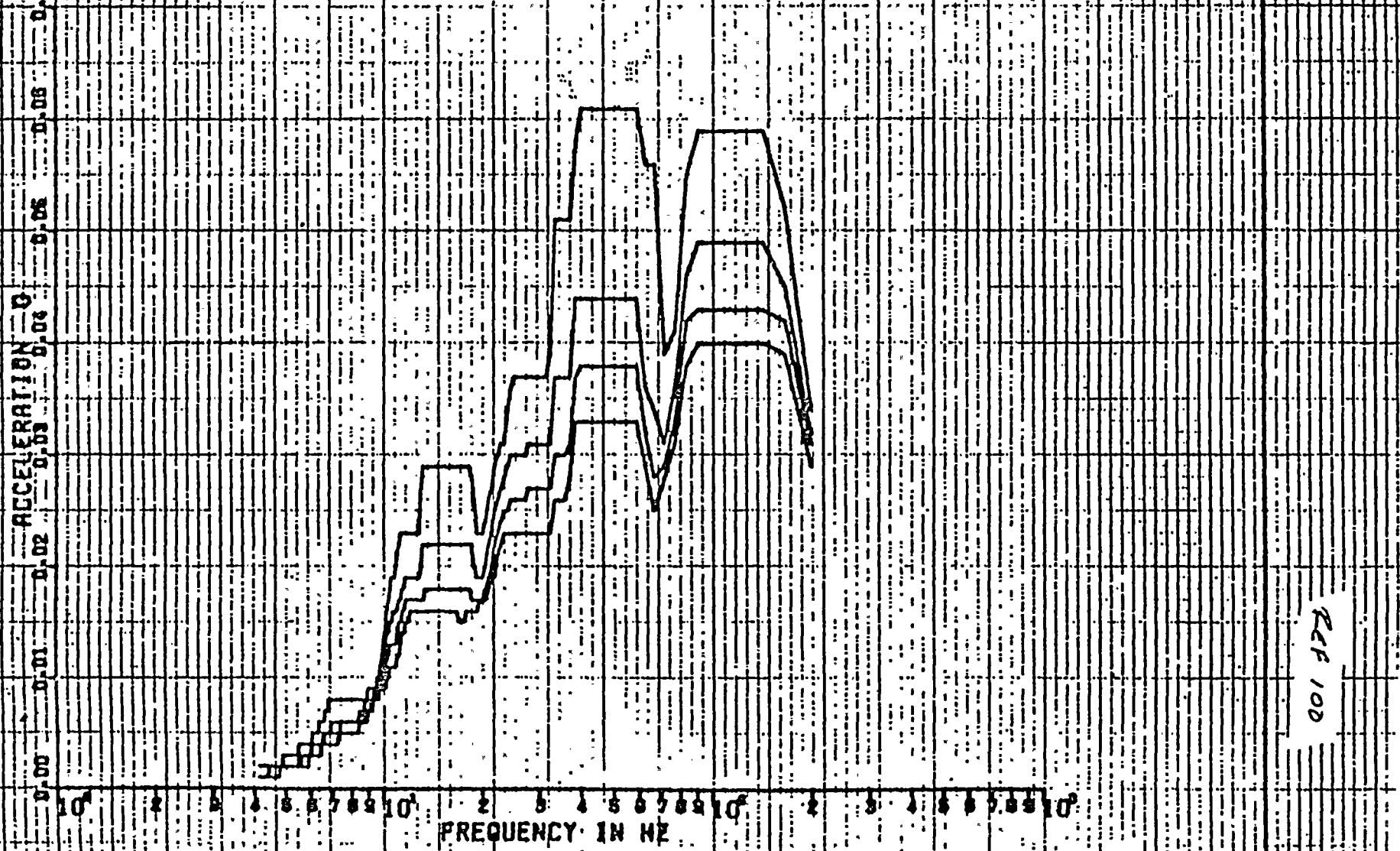
0.020

0.030

0.040

NOTES: DISPLAYS OF RRS CURVES WITH DAMPING 1% 2% 3% & 4%

THICK CURVES REPRESENT A SPREAD OF +10% AND -10%



P-14

REF 100

P&SPECTRA VER 01 LEV 00 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

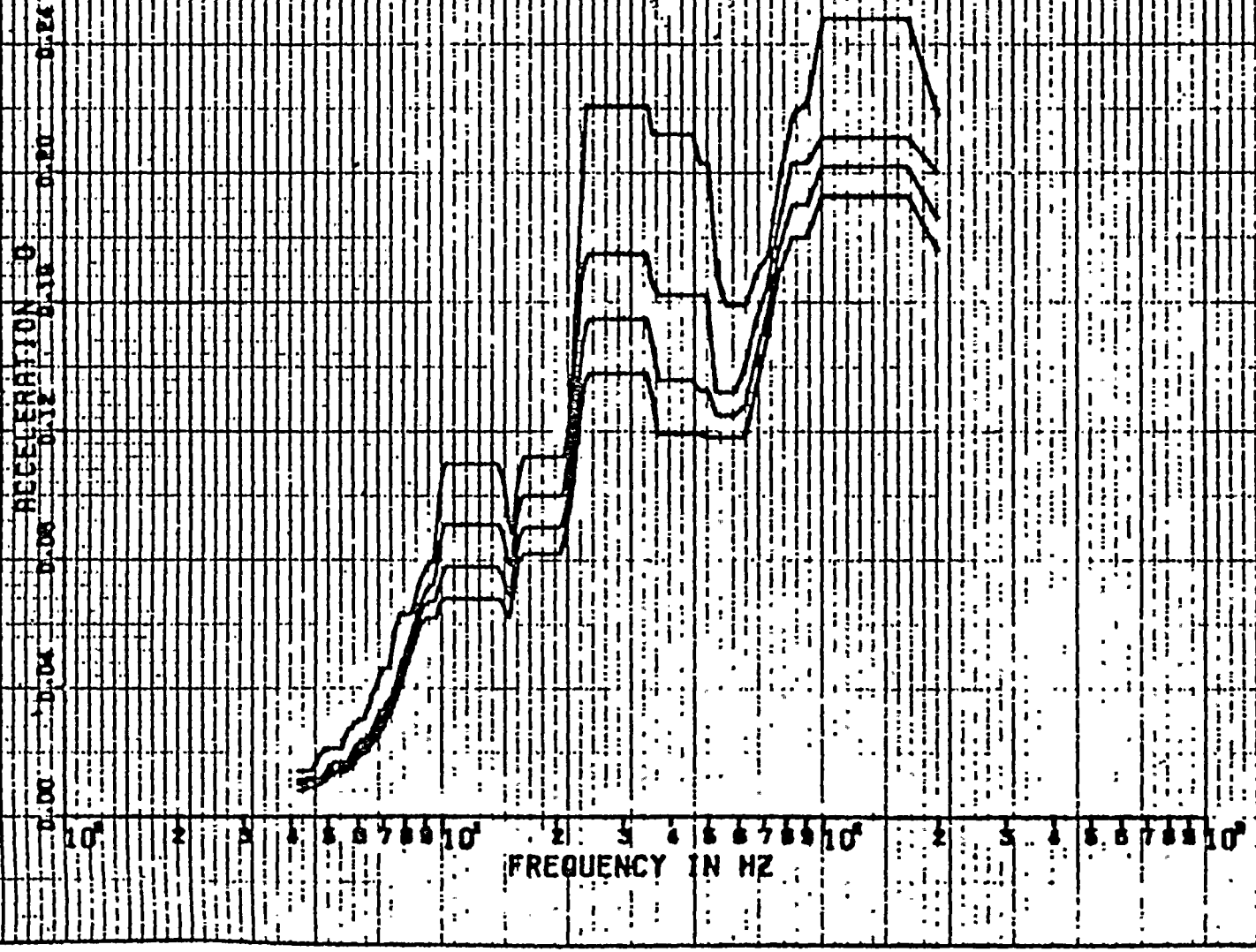
MIRADOR MOHAWK-MIKE MILES UNIT POINT-2 J.O.12177 MS-1748-0

SRS OF ACCELERATION: MATIR=20.0IFT) (ELEV.170.0 FT)

MICHAEL K GS

DISK CURVE SET NO.2 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.050
0.040

NOTE: MULTIPLAT OF SRS CURVES WITH DAMPING IN ZS 2 0 02
THICK CURVES REPRESENT A SMOOTHED CP +1DX SRS -1DX



REF 100

P-16

PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

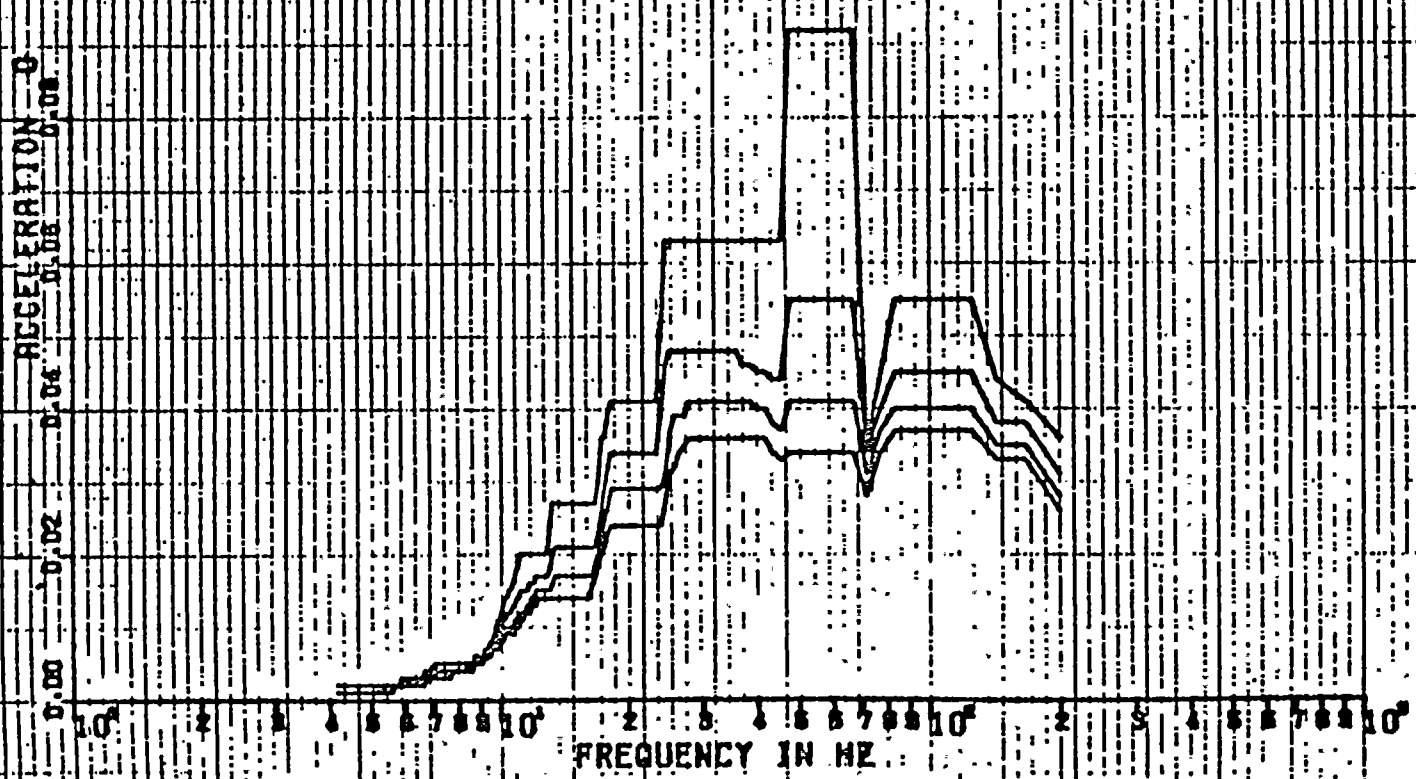
NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177 NS-1748-8

RMS OF ACCELERATION NAT(R=68.375FT) (ELEV.170.0.FT)

MICHAEL M. 68

DISK CURVE SET 03.3 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.030 0.040

NOTE: DELTIPLOT OF RMS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +1SD AND -1SD



REF 101

P&SPECTRA VER 01 LEV 09 SRV(ER... ALL SRV CASES) 22 OCT 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177 HS-1748-0

RMS OF ACCELERATION MAT(R=88.375FT) (ELEV.170.0 FT)

MICHAEL K SO

DISK CURVE SET NO.5 VER DIRECTION DAMPING VALUES = 0.010

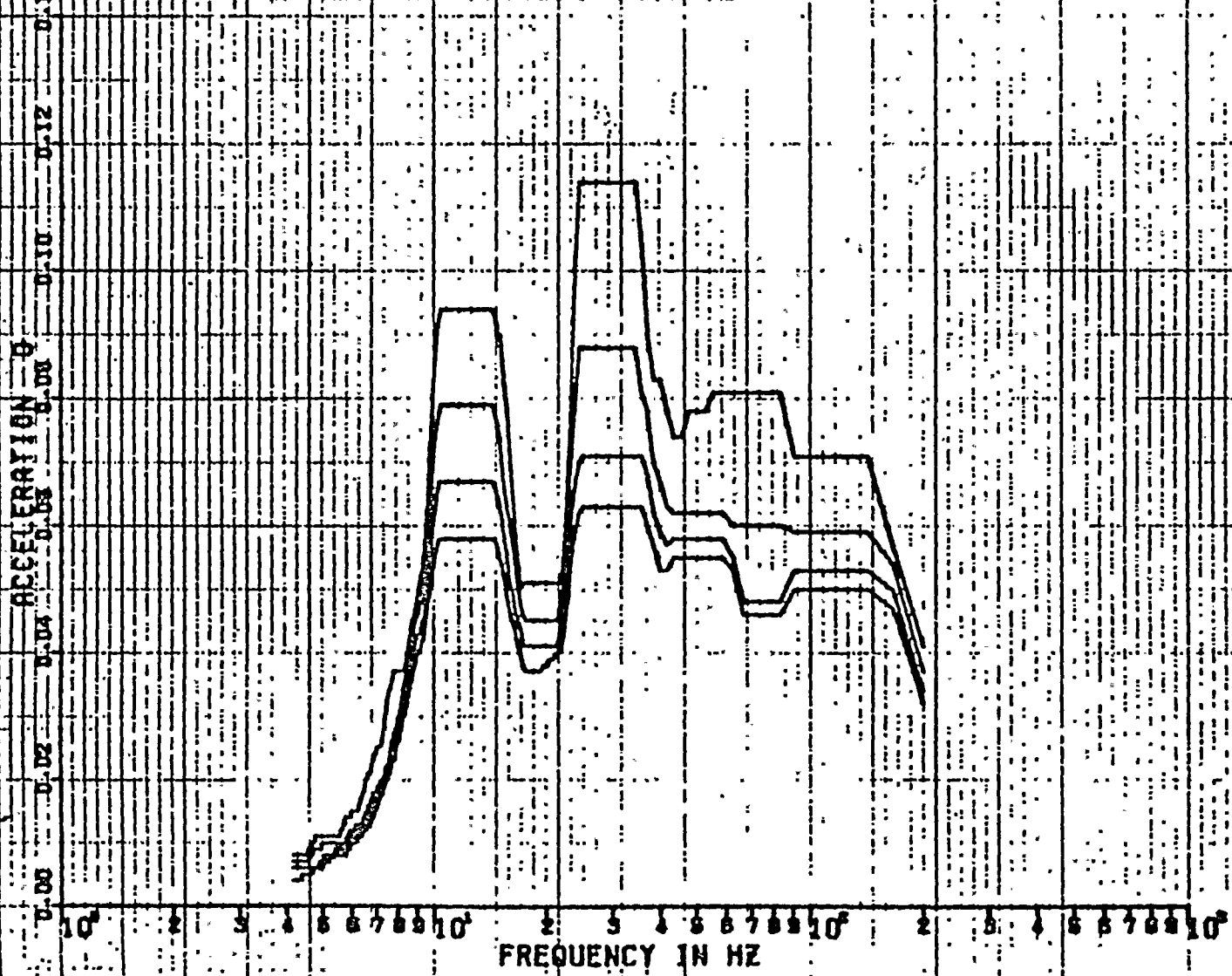
0.020

0.030

0.040

NOTE: MULTIPLY BY RMS CURVES WITH DAMPING 1% 2% 3% & 4%

THESE CURVES REPRESENT A SPREAD OF +1SD AND -1SD



REF 101

PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

P-13

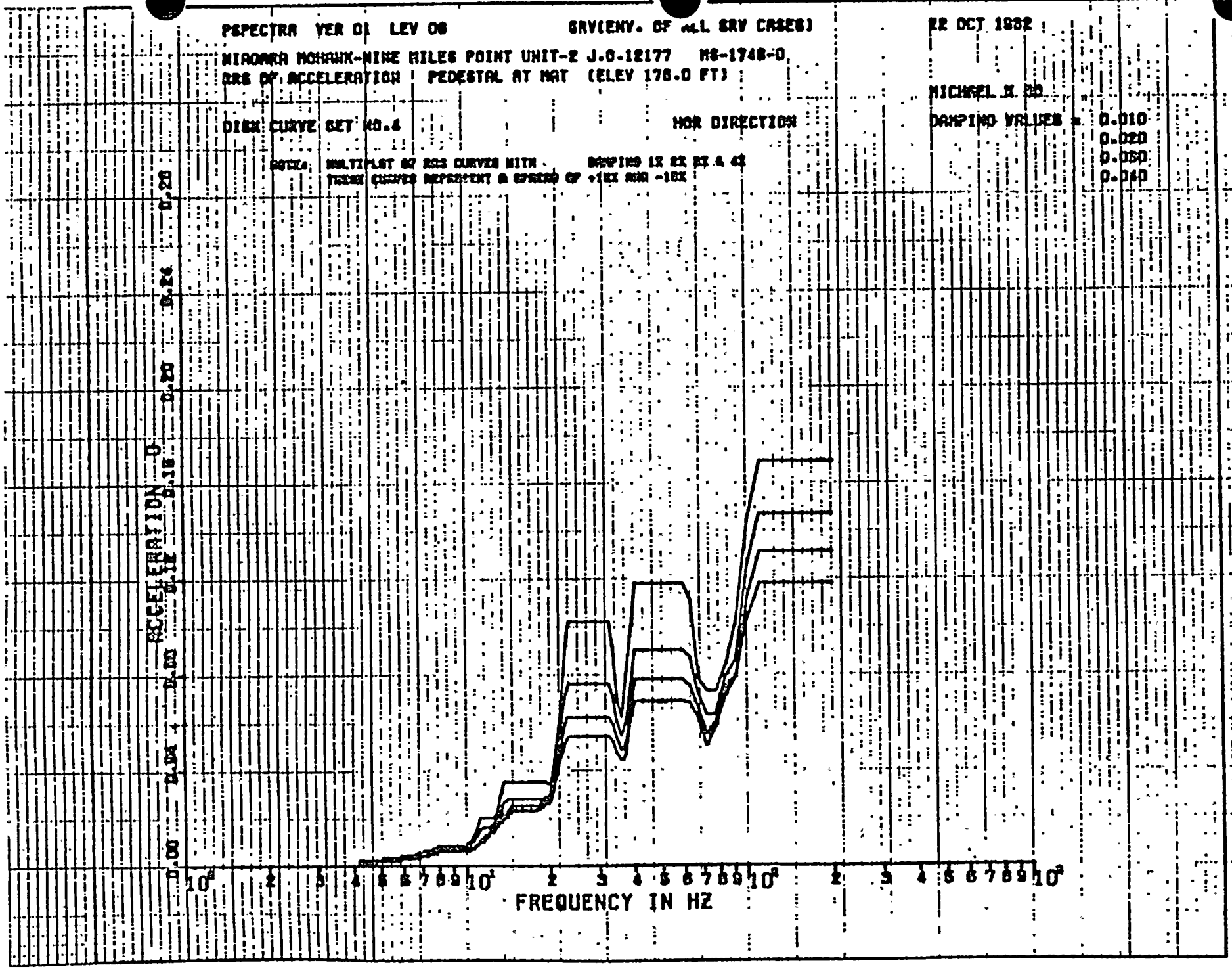
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0

RRS OF ACCELERATION | PEDESTAL AT MAT (ELEV 178.0 FT)

MICHAEL M. RO

DIRN CURVE SET NO.4 HOR DIRECTION DAMPING VALUES = 0.010
0.020
0.050
0.040

NOTE: MULTIPLY BY RRS CURVES WITH DAMPING 1% 2% 5% & 4%
THICK CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 102

P-19

P&PECTRA VER 01 LEV 03 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0

ORS OF ACCELERATION PEDESTAL AT MST (ELEV 178.0 FT)

MICHAEL K.OO

DISK CURVE SET NO.4 VER DIRECTION DAMPING VALUES = 0.010

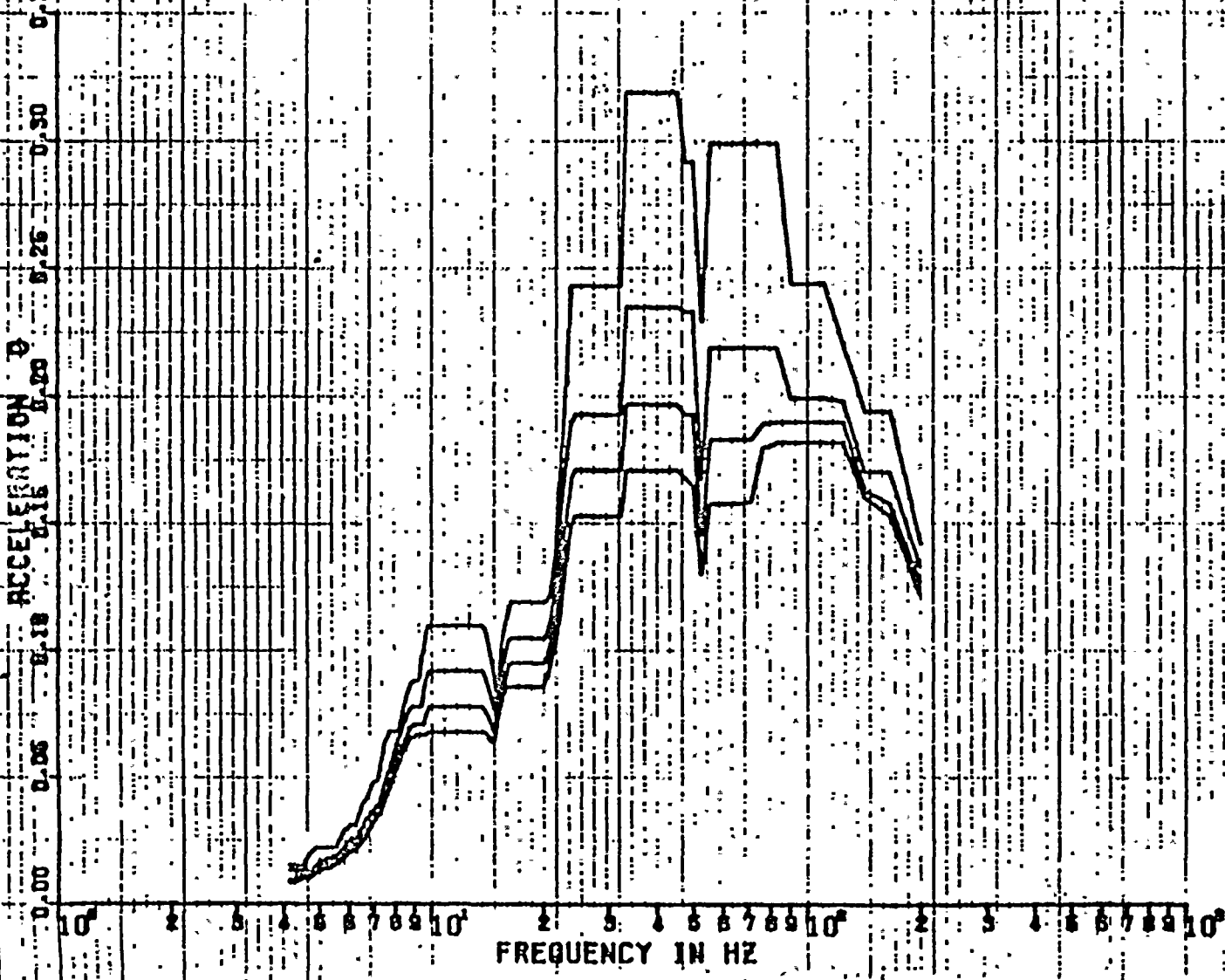
0.020

0.030

0.060

NOTE: MULTIPLIER OF RRS CURVES WITH DAMPING 1% 2% 3% & 4%

THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 102

P-20

PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0

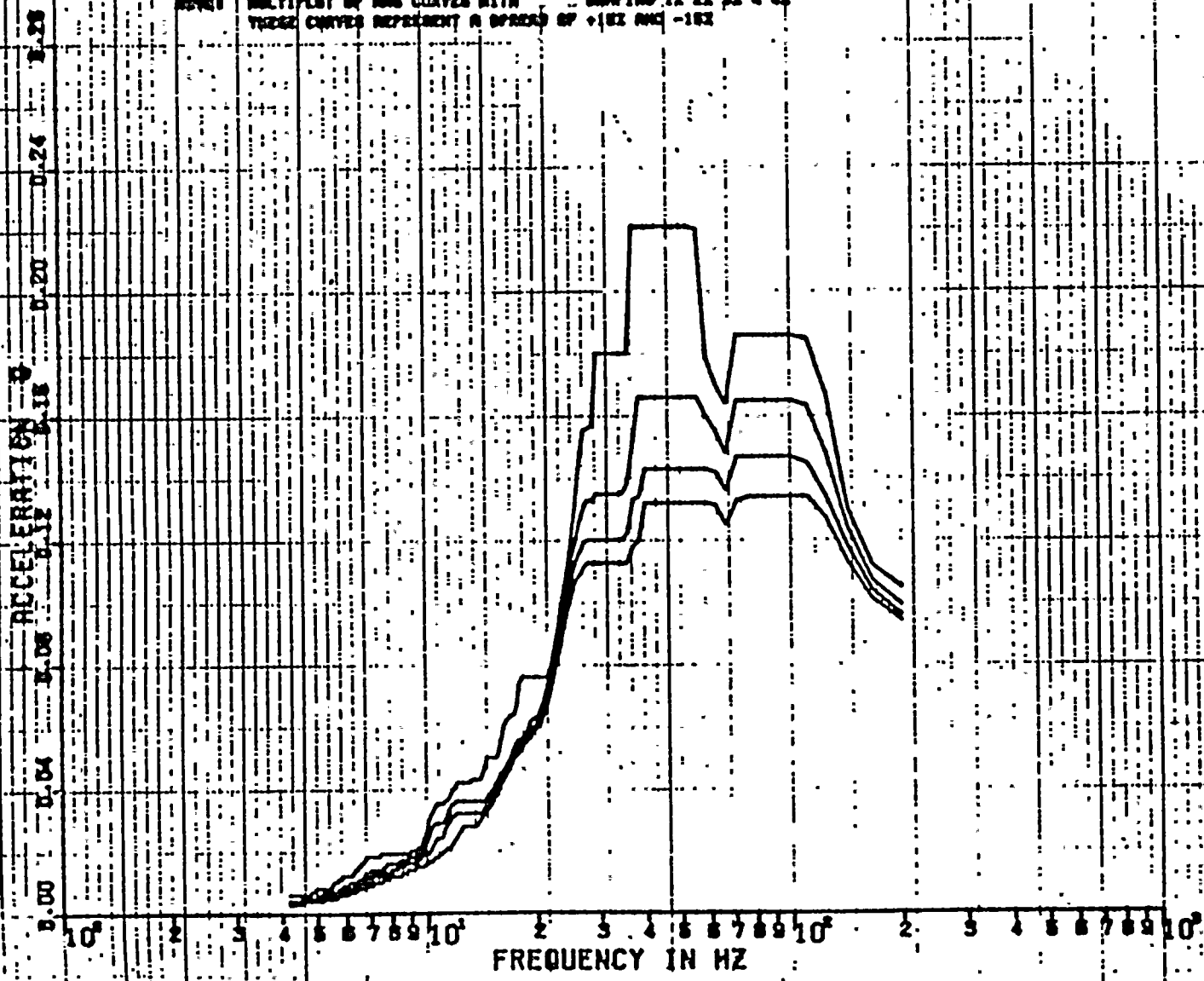
RMS OF ACCELERATION : PRIMARY CONT. (ELEV 176.0FT) AT MAT

MICHAEL K DO

DISK CURVE SET NO.5 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLIT OF RMS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +18% AND -18%



REF 103

P-21

PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

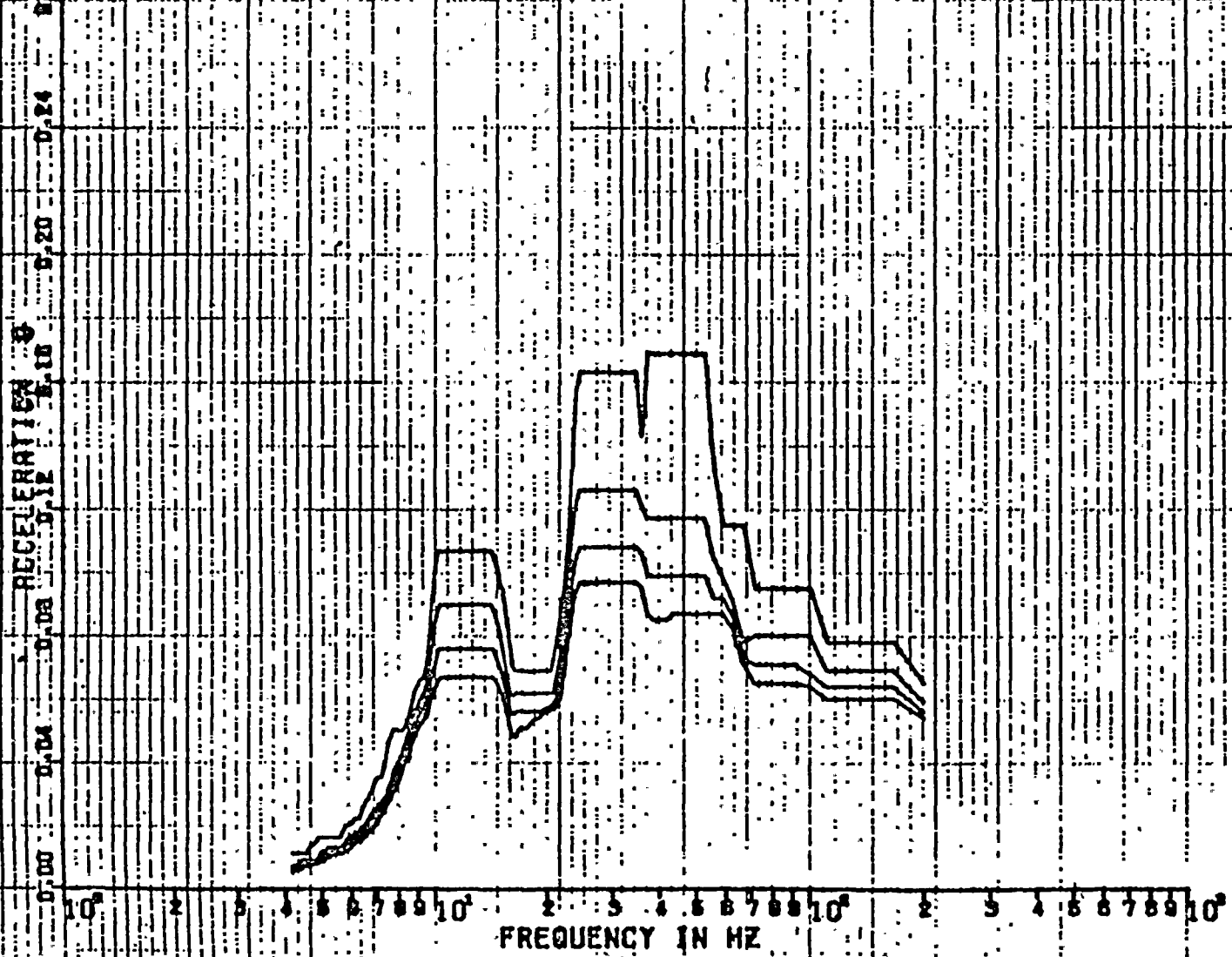
MIROGRA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1749-D

RRS OF ACCELERATION PRIMARY CONT. (ELEV 175.0FT) AT MAT

MICHAEL K. [illegible]

DISK CURVE SET NO.5. VER DIRECTION DAMPING VALUES = 0.010 0.020 0.030 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 103

P-22

P&SPECTRA VER 01 LEV 03 . SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

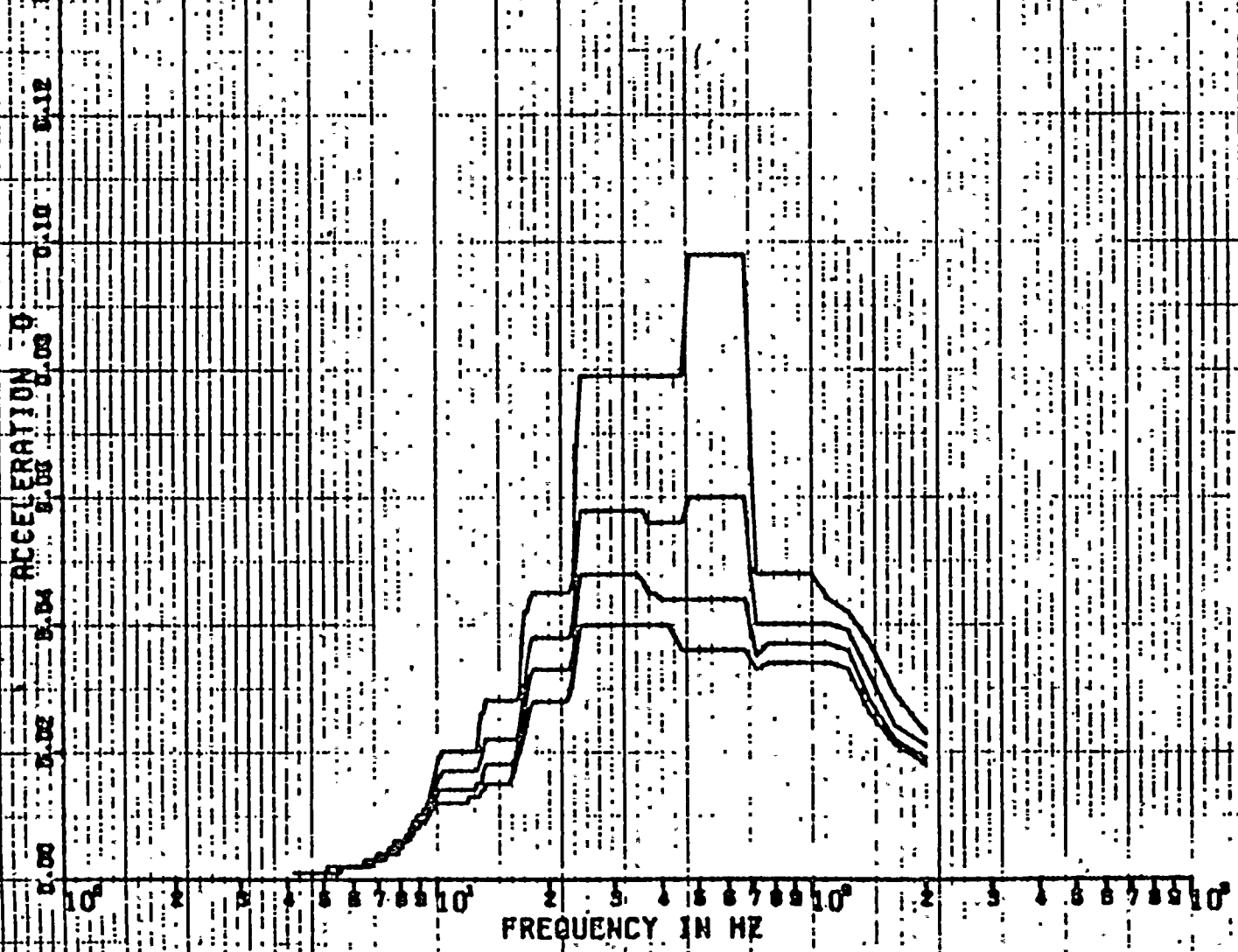
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0

RMS OF ACCELERATION SECONDARY CONT. (ELEV 175) AT MAT

MICHAEL K SO

DISK CURVE SET NO.6 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.030 0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 102

P-28

PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

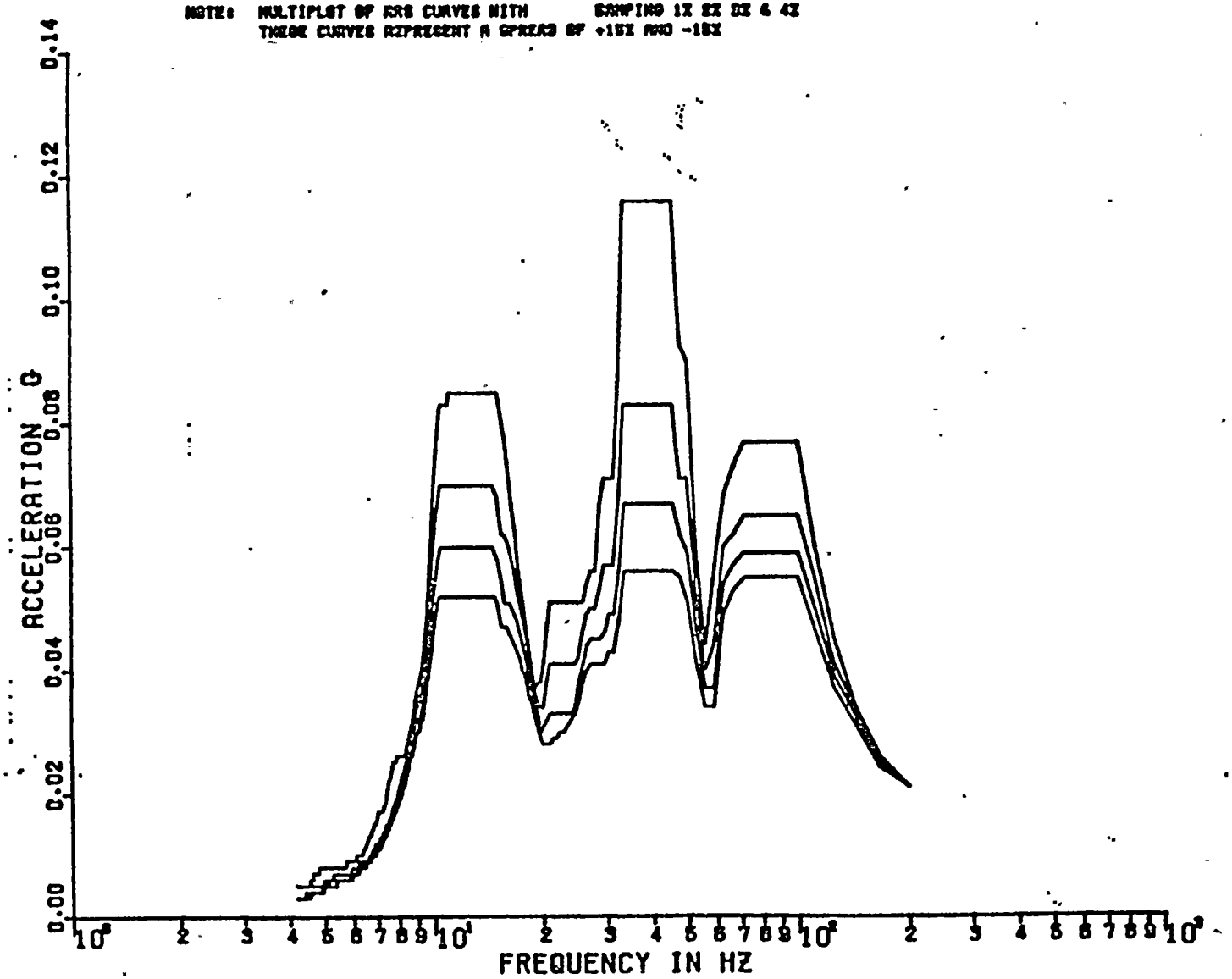
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0.
RRS OF ACCELERATION SECONDARY CONT. (ELEV 175) AT MAT

MICHAEL K 03

DISK CURVE SET NO.6 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 104

PSPECTRA VER 01 LEV 03 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0

RRS OF ACCELERATION PRIMARY CONT. (ELEV 180.0 FT)

MICHAEL K 03

DIEN CURVE SET 10.7 HOR DIRECTION DAMPING VALUES = 0.010

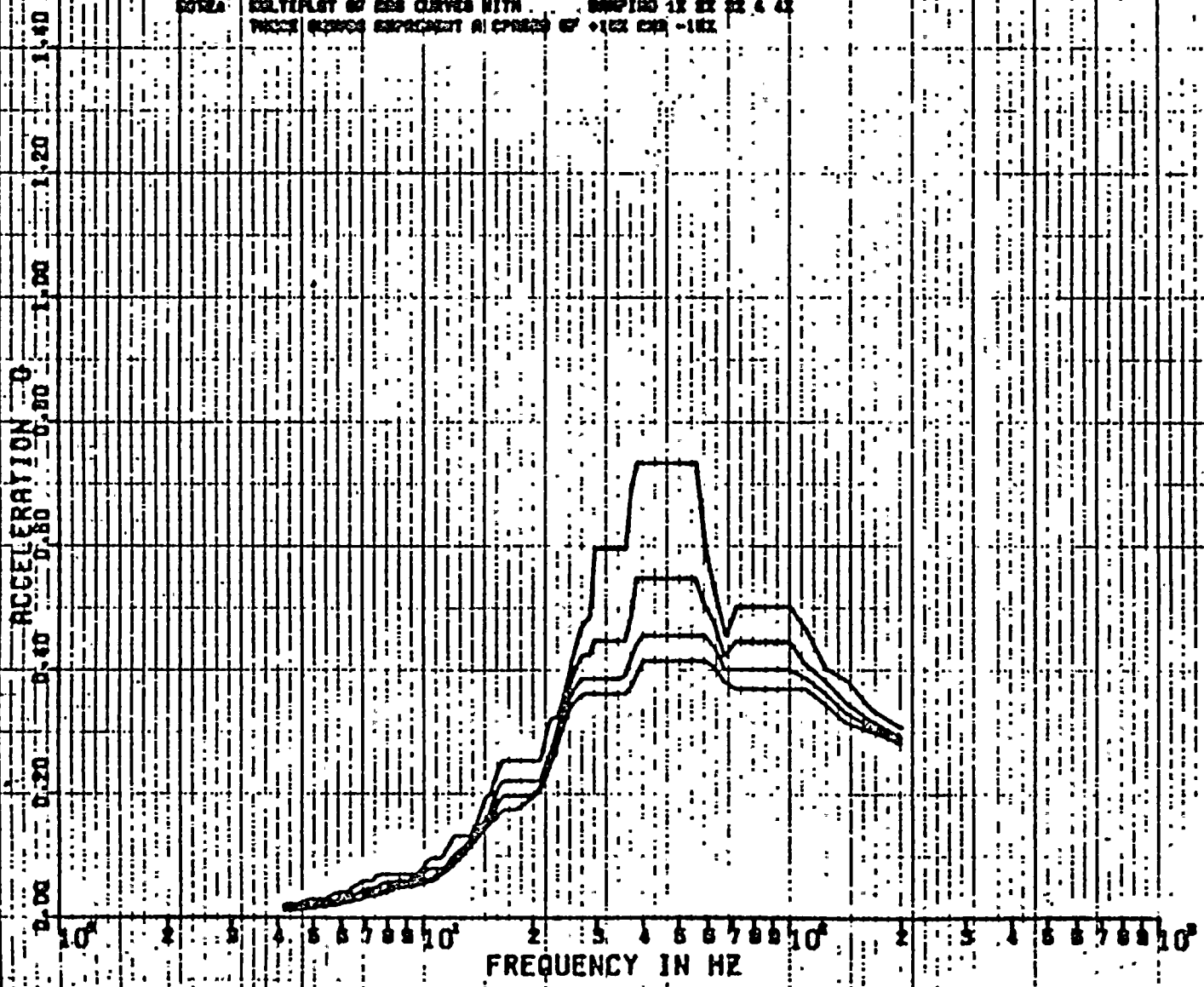
0.020

0.050

0.040

NOTES: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% 3% & 4%

THESE CURVES REPRESENT A CHANGE OF +10% AND -10%



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REF 105

P-25

SPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

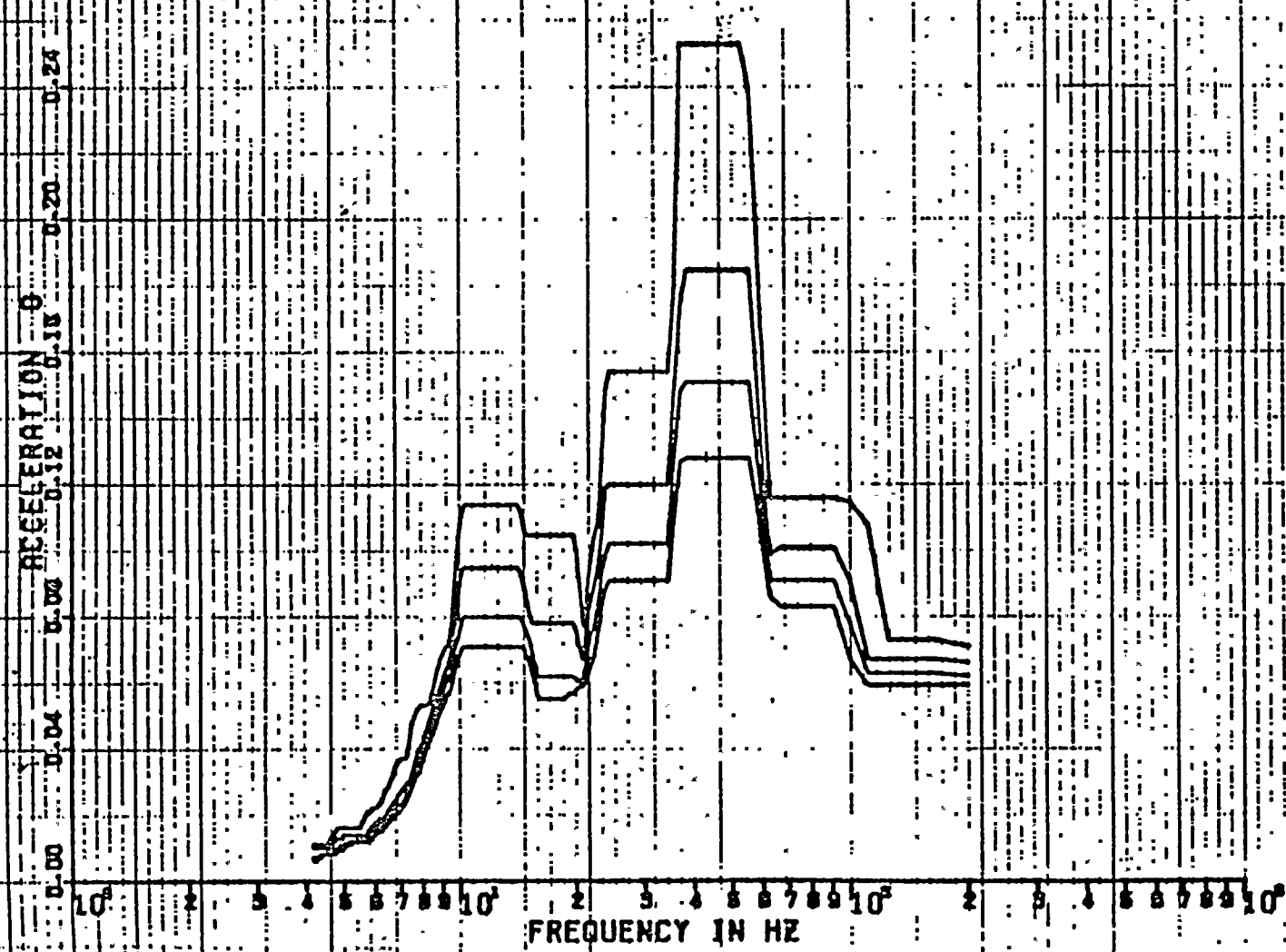
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 M3-1748-0

RMS OF ACCELERATION PRIMARY CONT. (ELEV 100.8 FT)

MICHAEL K CO.

DISK CURVE SET NO.7 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLET OF RMS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 105

PSPECTRA VER 01 LEV 03 SRV(ENV. OF ALL SRV CASES) 22 OCT 1992

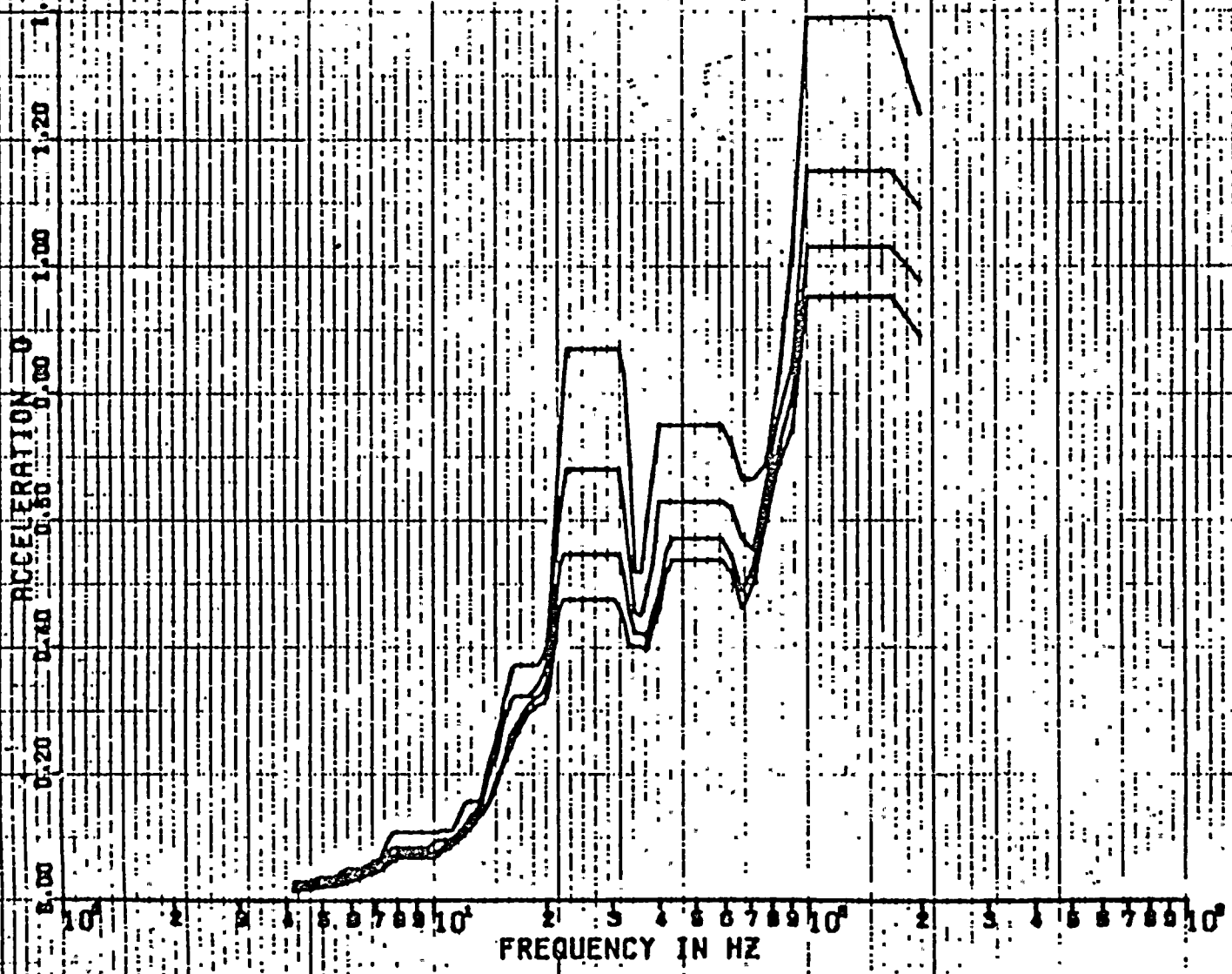
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0.

RMS OF ACCELERATION : PEDESTAL (ELEV.185.6 FT)

MICHAEL K.DO

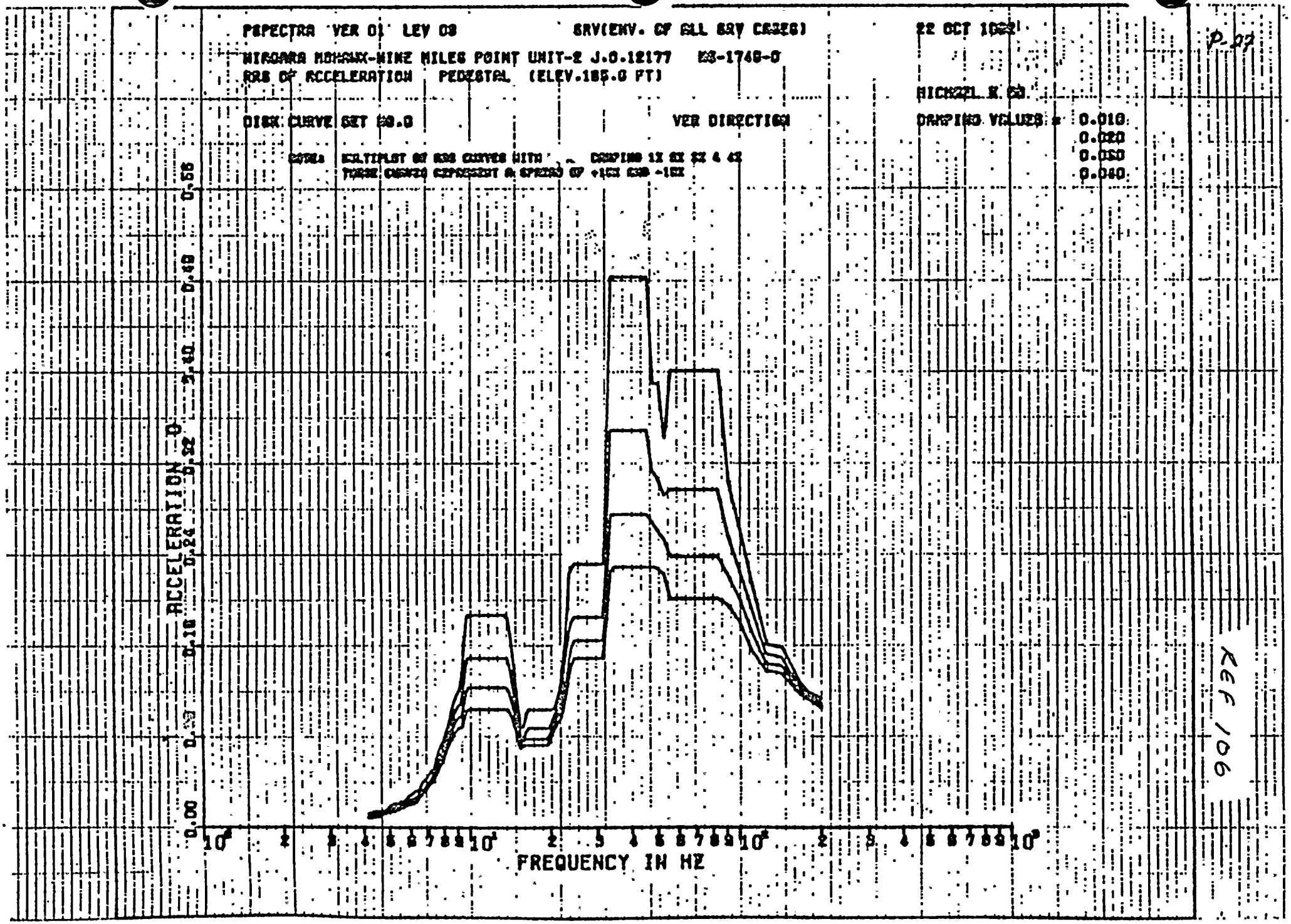
DISK CURVE SET 99.8 HOR DIRECTION DAMPING VALUES : 0.010 0.020 0.030 0.040

NOTE: MULTIPLOT OF RSS CURVES WITH DAMPING 1% 2% 3% & 4%
VERTICAL CURVES REPRESENT A SPREAD OF +10% RSS -10%



P-26

REF 106


PSPECTRA VER 01 LEV 08
SRV(ENV. OF ALL SRV CASES)
22 OCT 1982
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 E3-1740-0
RMS OF ACCELERATION PEDESTAL (ELEV.185.0 FT)
MICHAEL W. CO.
DISK CURVE SET 80.0
VER DIRECTION
DAMPING VALUES = 0.010
0.020
0.050
0.040
ACCELERATION -G
0.00
0.08
0.16
0.24
0.32
0.40
0.48
0.56
FREQUENCY IN HZ
REF 106

PSPECTRA VER 01 LEV 03 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

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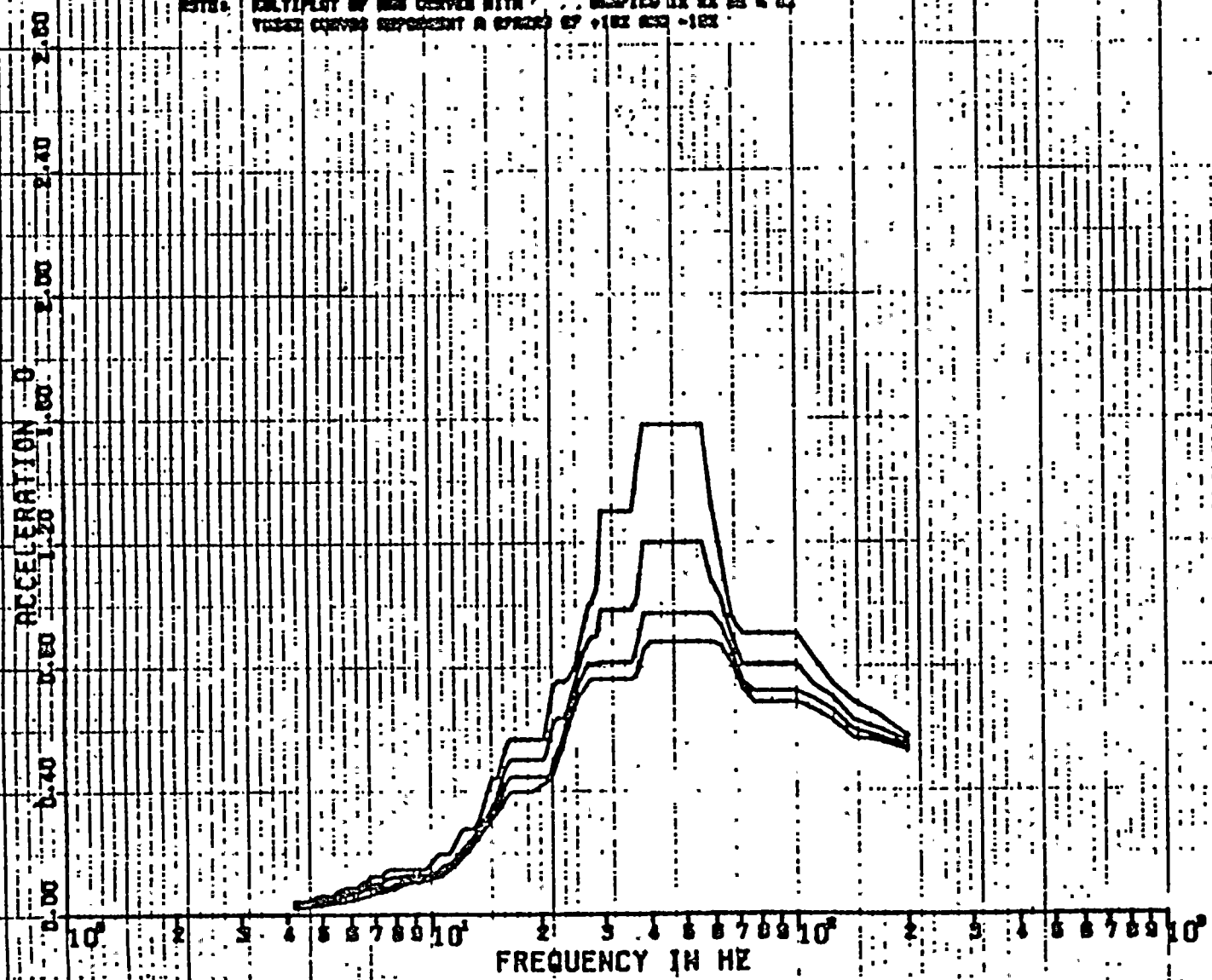
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0

RRS OF ACCELERATION PRIMARY CONT. (ELEV.185.0 FT)

MICHAEL K 09.

DISK CURVE SET NO.0 HOR DIRECTION DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH , , , DESIGNED BY XX XX XX & XX
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 107

PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CRSES) 22 OCT 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 N3-1740-8

ESS OF ACCELERATION PRIMARY CONT. (ELEV.183.8 FT)

MICHAEL K 80

DISK CURVE SET.N9.8 VER DIRECTION DAMPING VALUES = 0.010

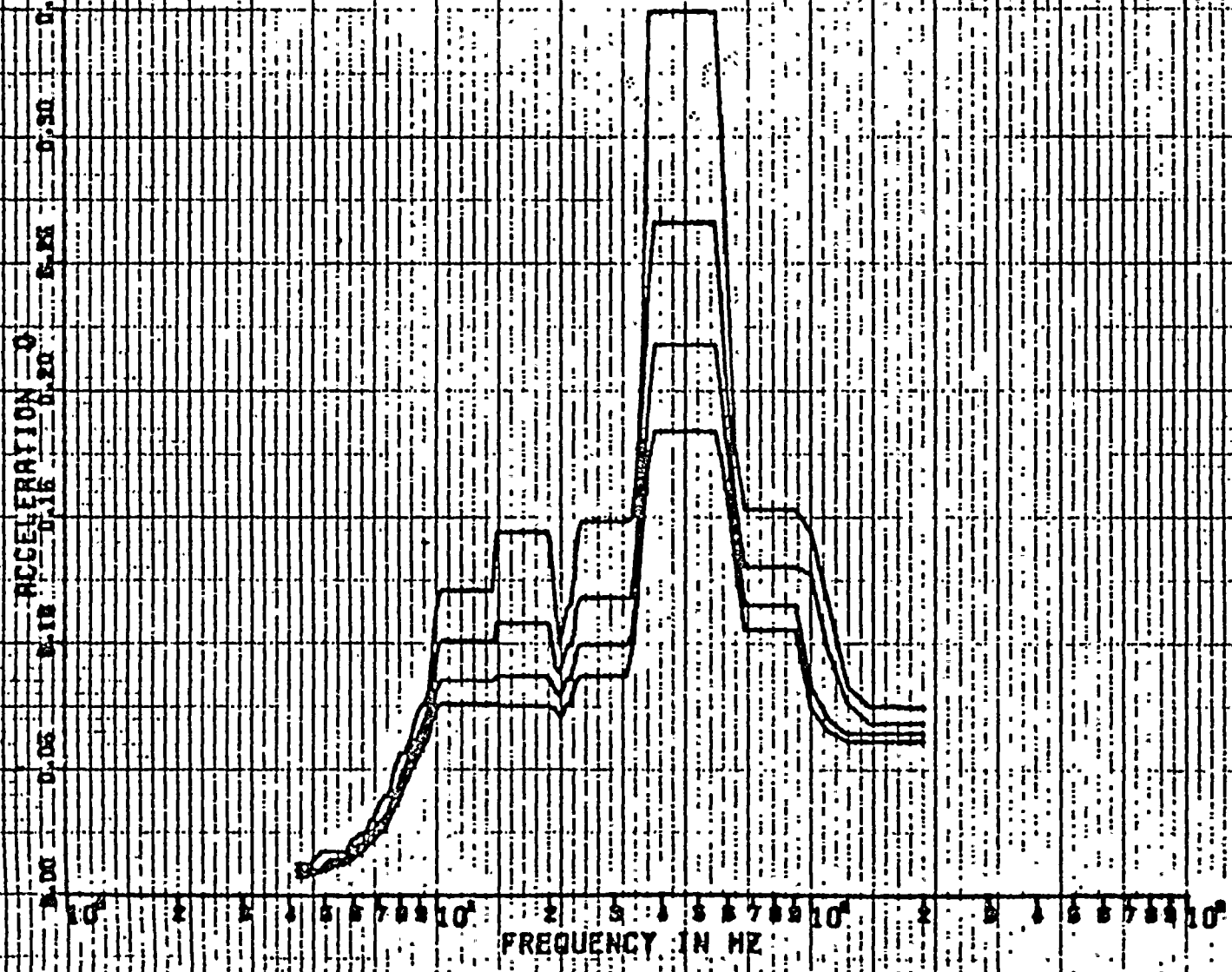
0.020

0.030

0.040

CAUTION: MULTIPLOT OF ONE CURVES WITH DAMPING 1% 2% 3% & 4%

FORCE CORRED COEFFICIENT @ SPEEDS OF +10% 0% -10%



REF 107

P-29

SPECTRA VER 01 LEV 09 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 RS-1740-0

RMS OF ACCELERATION PRIMARY CONT. (ELEV. 190.4 FT)

MICHAEL H.

DISK CURVE SET NO.10 NS2 DIRECTION DAMPING VALUES = 0.010

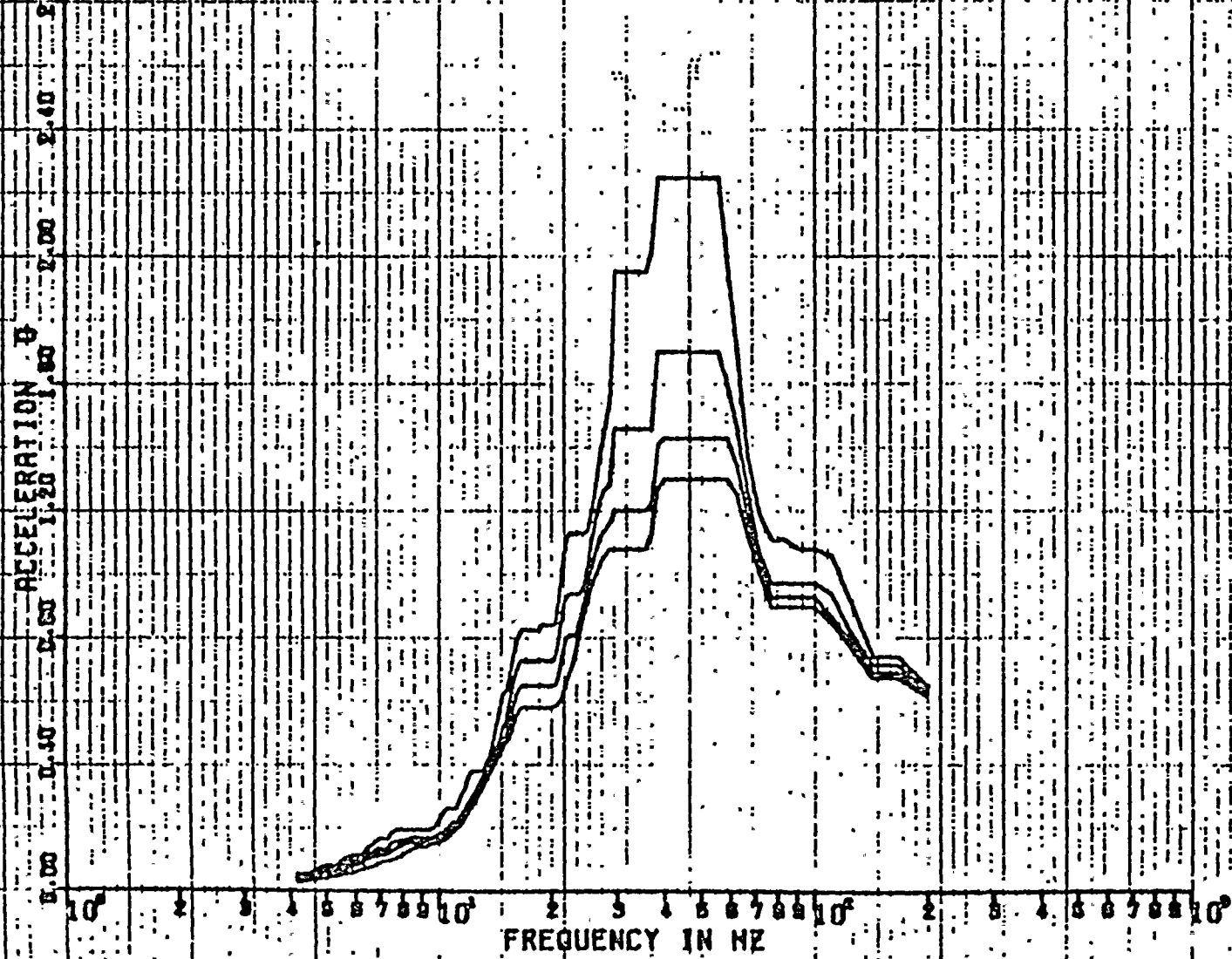
0.020

0.030

0.040

NOTE: MULTIPLY OF RMS CURVES WITH DAMPING 1% BY 1% & 4%

THESE CURVES REPRESENT A SPREAD OF +1SD AND -1SD



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REF 108

P-31

PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

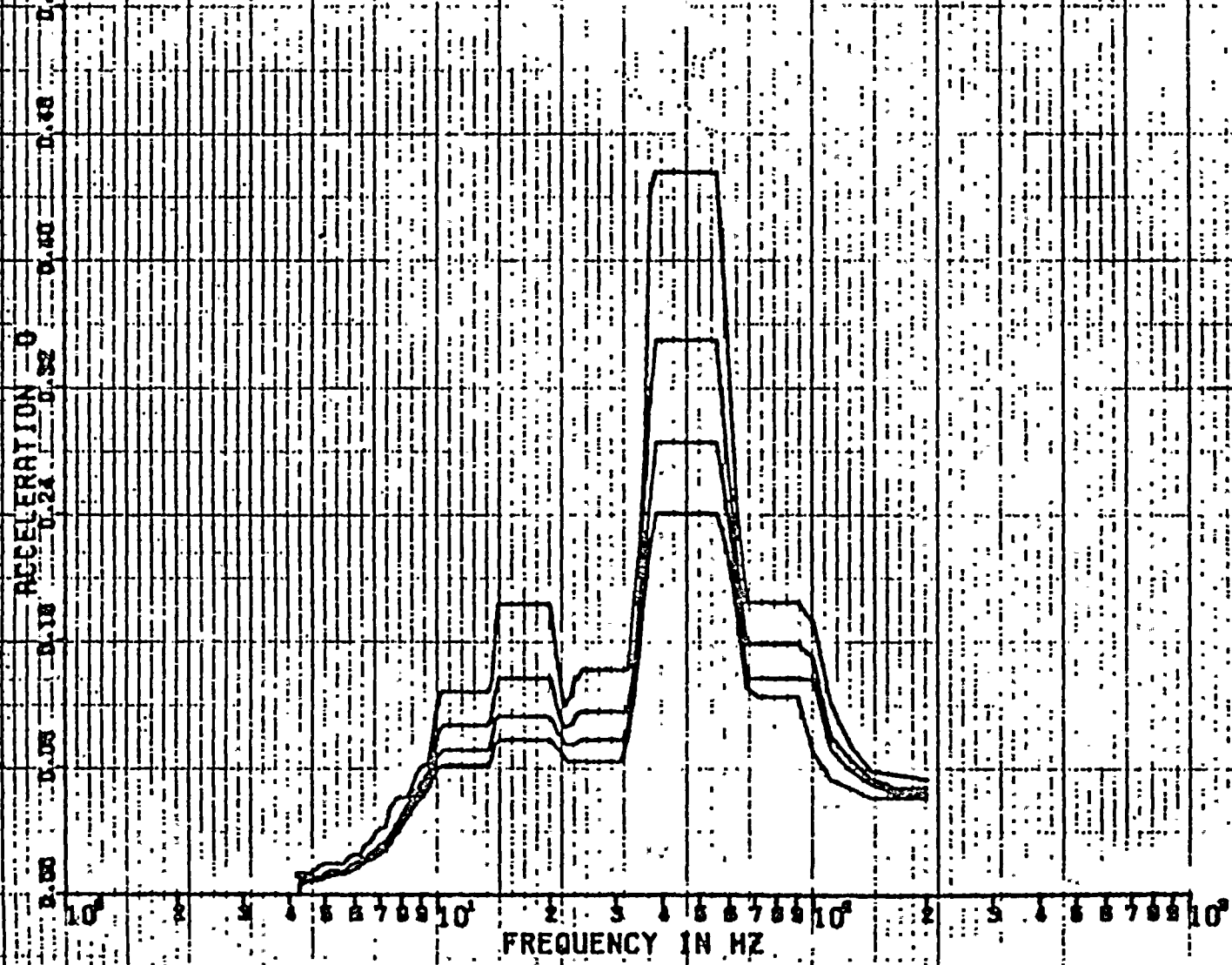
HIRONON HONOLULU-NINE MILES POINT UNIT-2 J.O.12177 H3-1748-0

RMS OF ACCELERATION PRIMARY CONT. (ELEV. 180.4 FT)

MICHAEL K. SO

DISK CURVE SET NO.10 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.030 0.040

NOTES: MULTIPLOT OF SRS CURVES WITH DAMPING 1% 2% 3% & 4%
PEAK CURVE REPRESENT A SPREAD OF +(2% SAM -1%)



REF 108

SPECTRA VER 01 LEV 05 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

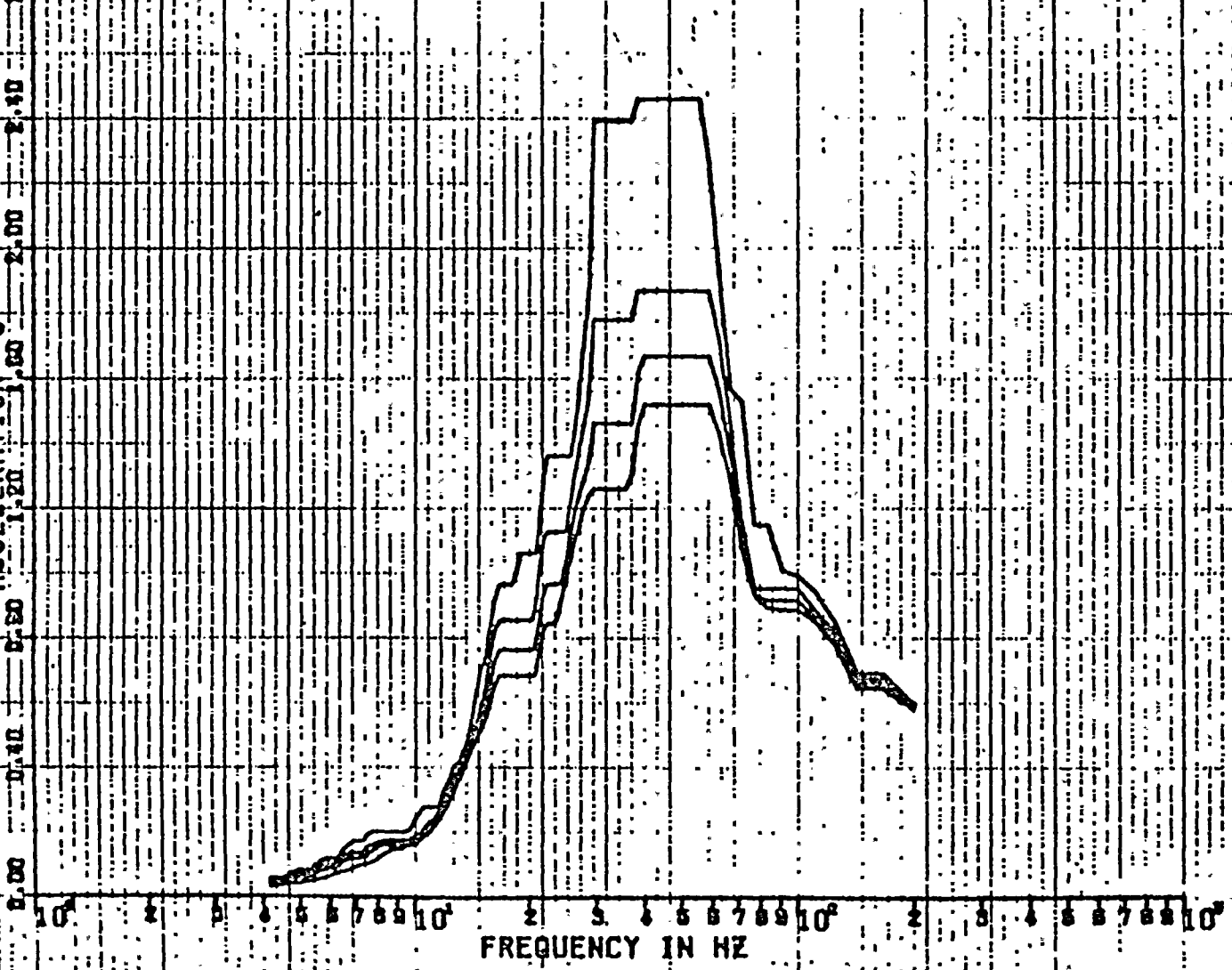
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0

RMS OF ACCELERATION PRIMARY CONT. (ELEV. 185.2 FT)

MICHAEL K.CO

DIEK CURVE SET 05.11 HOR DIRECTION DAMPING VALUES = 0.010
0.020
0.030
0.040

CODE: MULTIPLOT OF ROS CURVES WITH DAMPING 1% 2% 3% & 4%
THREE CURVES REPRESENT A SPACED OF +10% AND -10%



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RSF 109

P.33

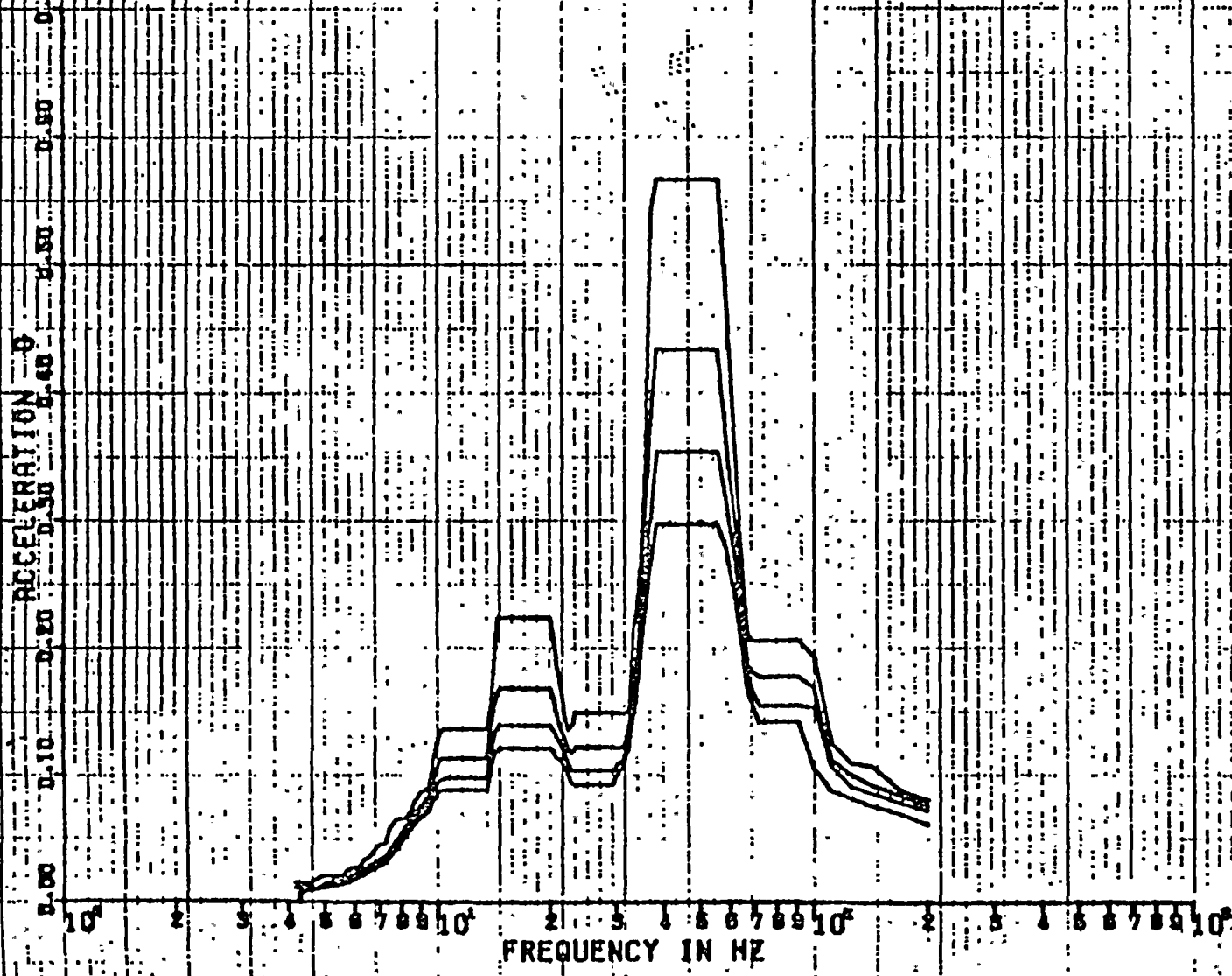
PSPECTRA VER 01 .LEV 03 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0.
ARS OF ACCELERATION PRIMARY CONT. (ELEV. 185.2 FT)

MICHAEL K.CO

DISK CURVE GZT NO.11 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: ENVELOPE OF ARS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



Ref 109

SPECTRA VER 01 LEV 03 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

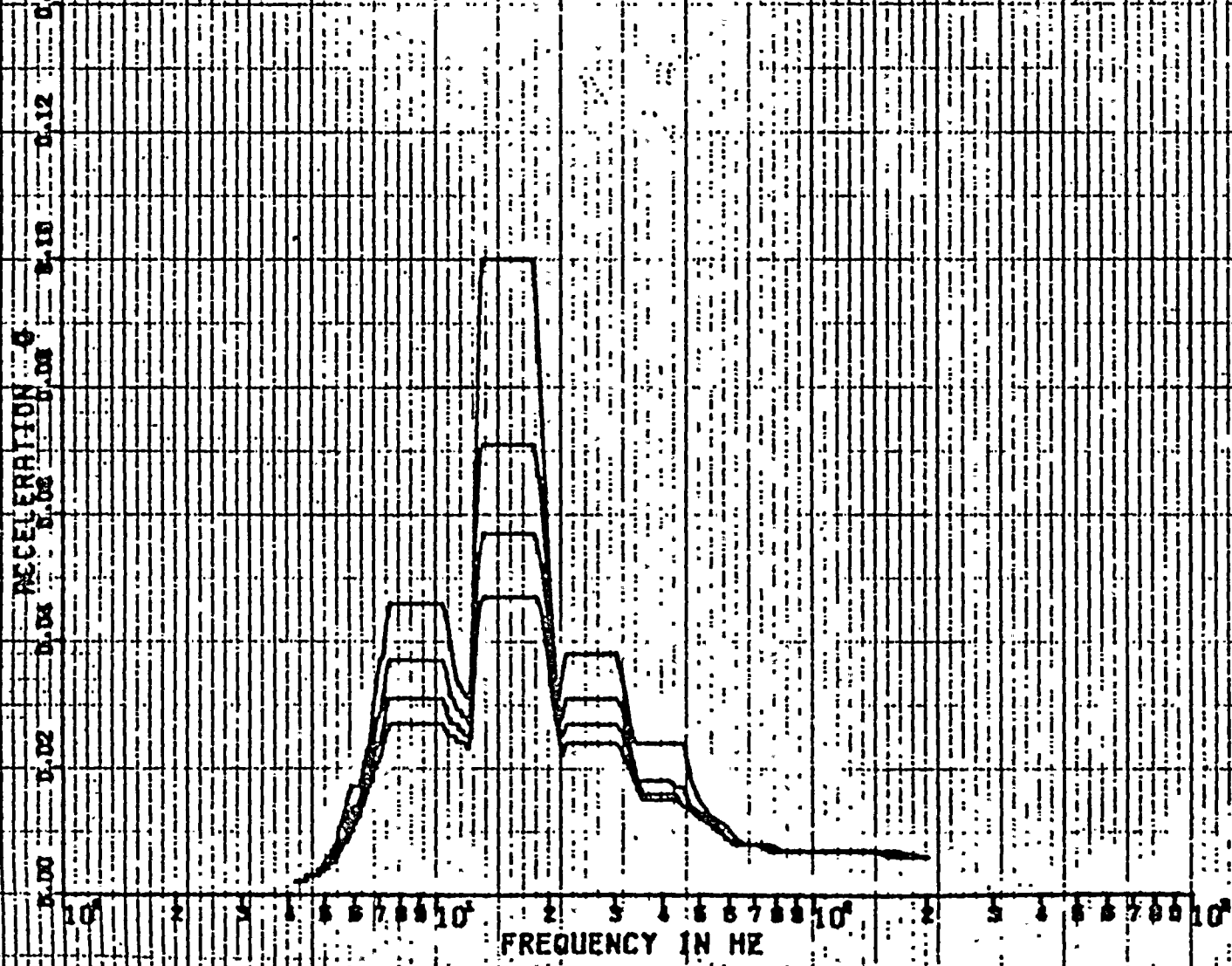
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 R3-1748-0

RRS OF ACCELERATION SECONDARY CONT. (ELEV 281.0 FT)

MICHAEL K 28

DISK CURVE SET E3.12 NSS DIRECTION DAMPING VALUES = 0.010, 0.020, 0.030, 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% 3% & 4%.
THESE CURVES REPRESENT A SPACED OF +10% AND -10%



REF 111

P-34

PSPECTRA VER 01 LEV 03 SRV(ENV. [illegible] SRV CR2E6) 22 OCT 1982

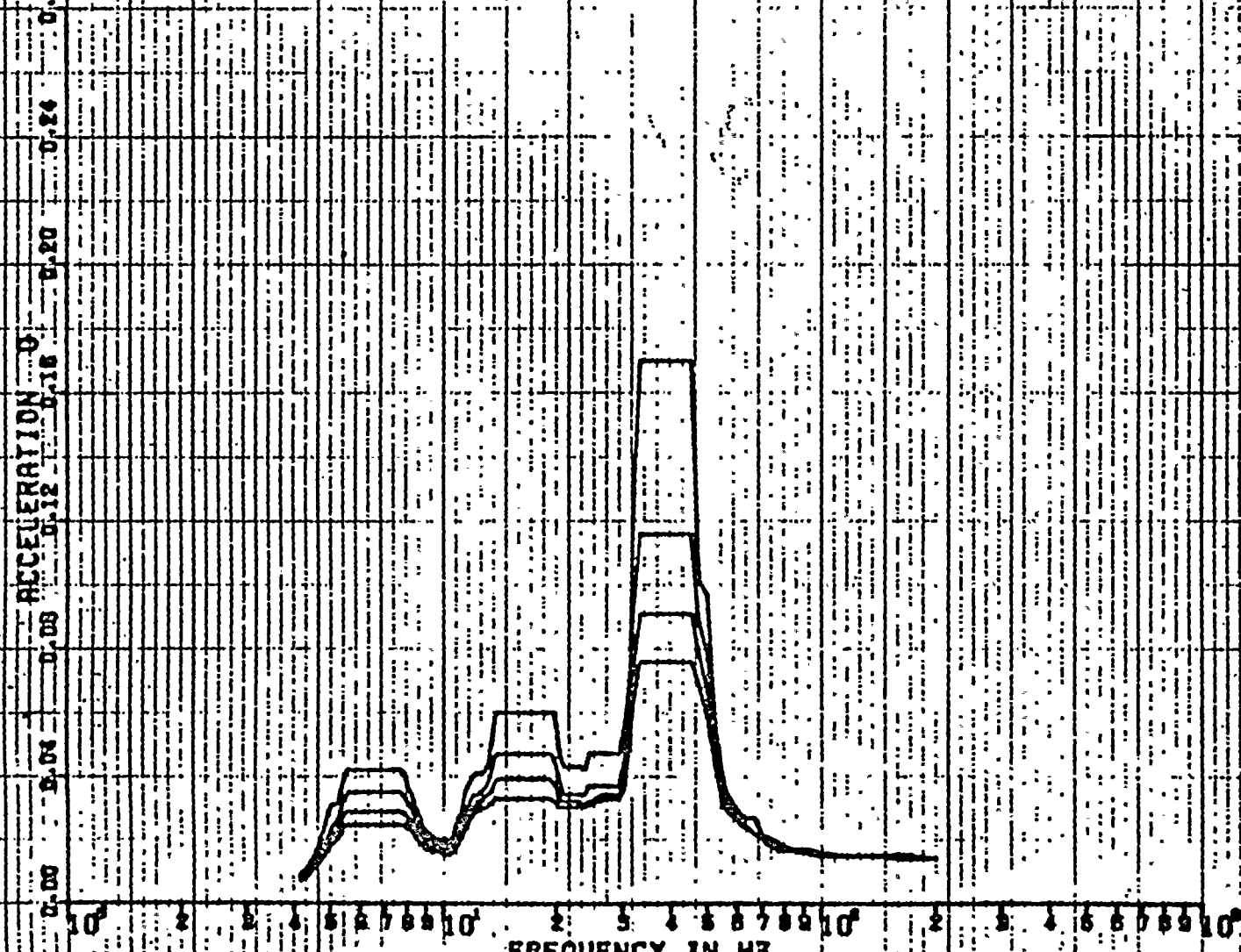
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0

RMS OF ACCELERATION SECONDARY CONT. (ELEV 261.0 FT)

MICHAEL K BO

DIEX CURVE SET NO.12 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.030 0.040

CAVEA: MULTIPLOT OF RMS CURVES WITH . DAMPING 1% 2% 3% & 4%
THICK CURVES REPRESENT A CHANGE OF +10% AND -10%



D-35

REF 111

PSPECTRA VER 01 LEV 09 SRVIENV. OF ALL SRV CRVZES) 22 OCT 1982

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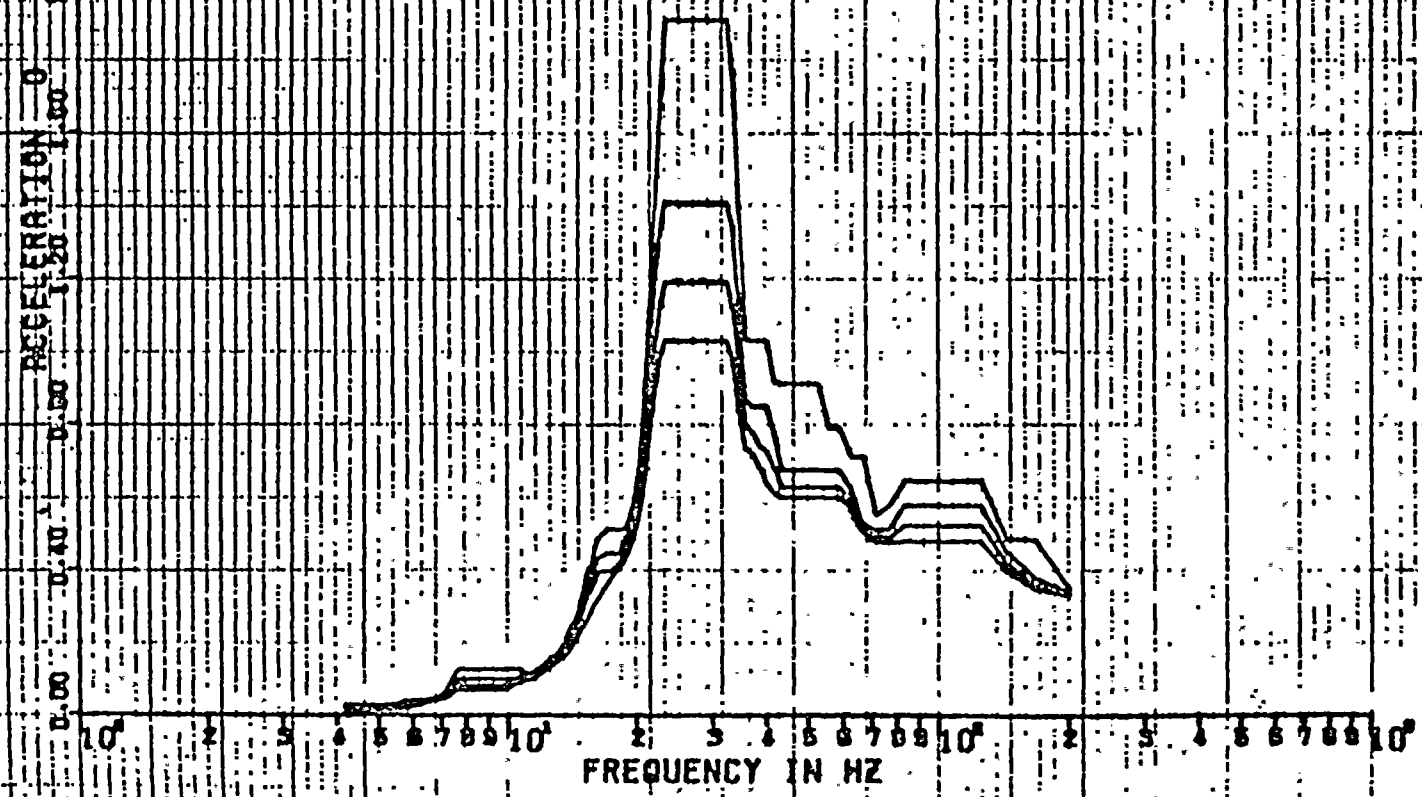
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 M3-1749-0

SRS OF ACCELERATION PEDESTAL WATER LEVEL (ELEV. 201.0 FT)

MICHAEL K 09

DISK CURVE SET NO.19 HOR DIRECTION DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLOT OF MRS CURVES WITH DAMPING 1% 2% 3% & 4%
VERTICAL CURSORS REPRESENT A SPACING OF +1HZ AND -1CS



REF 112

PSPECTRA VER 01 LEV 09 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

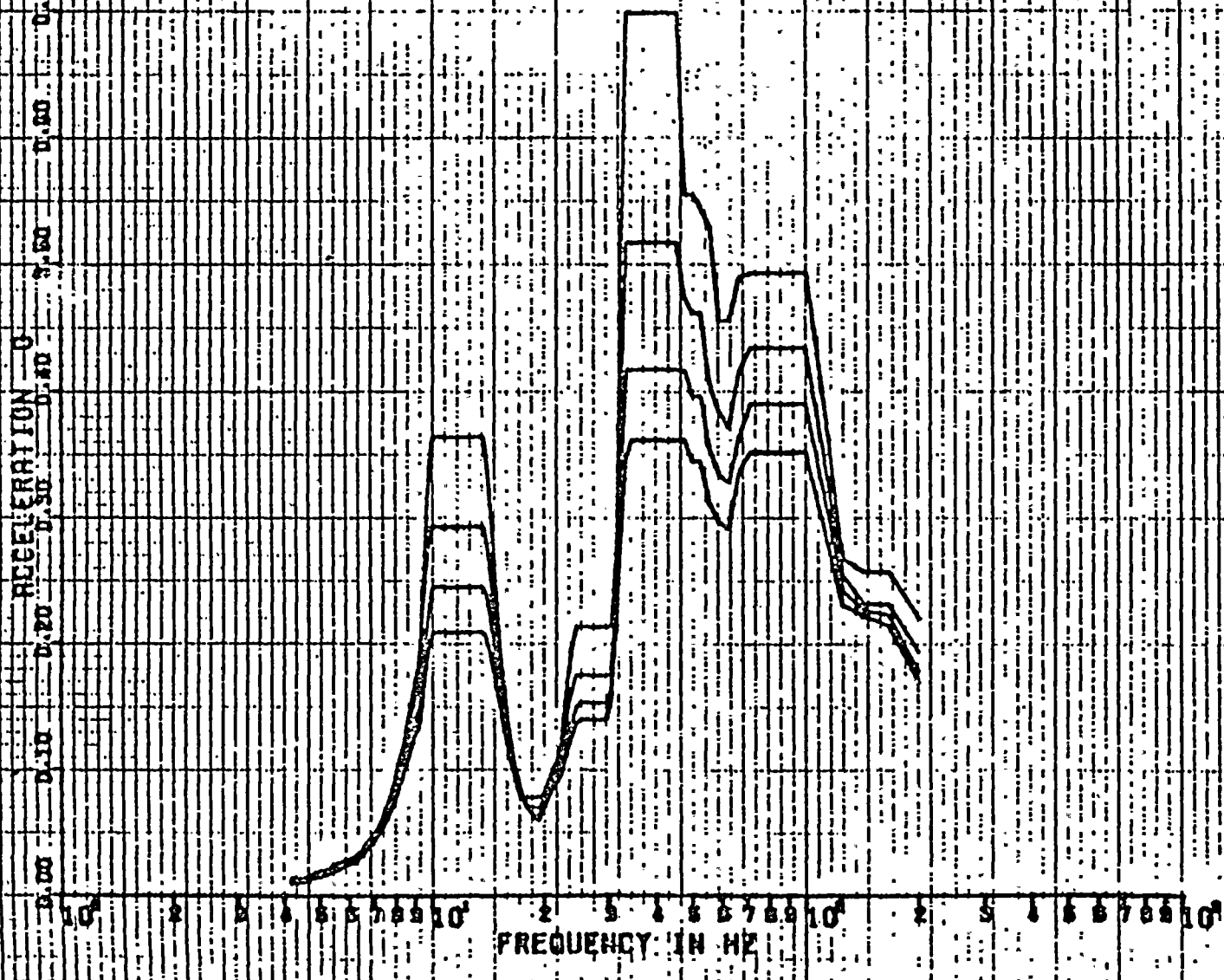
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 RS-1740-0

RMS OF ACCELERATION PEDESTAL WATER LEVEL (ELEV. 201.0 FT)

MICHAEL M 03

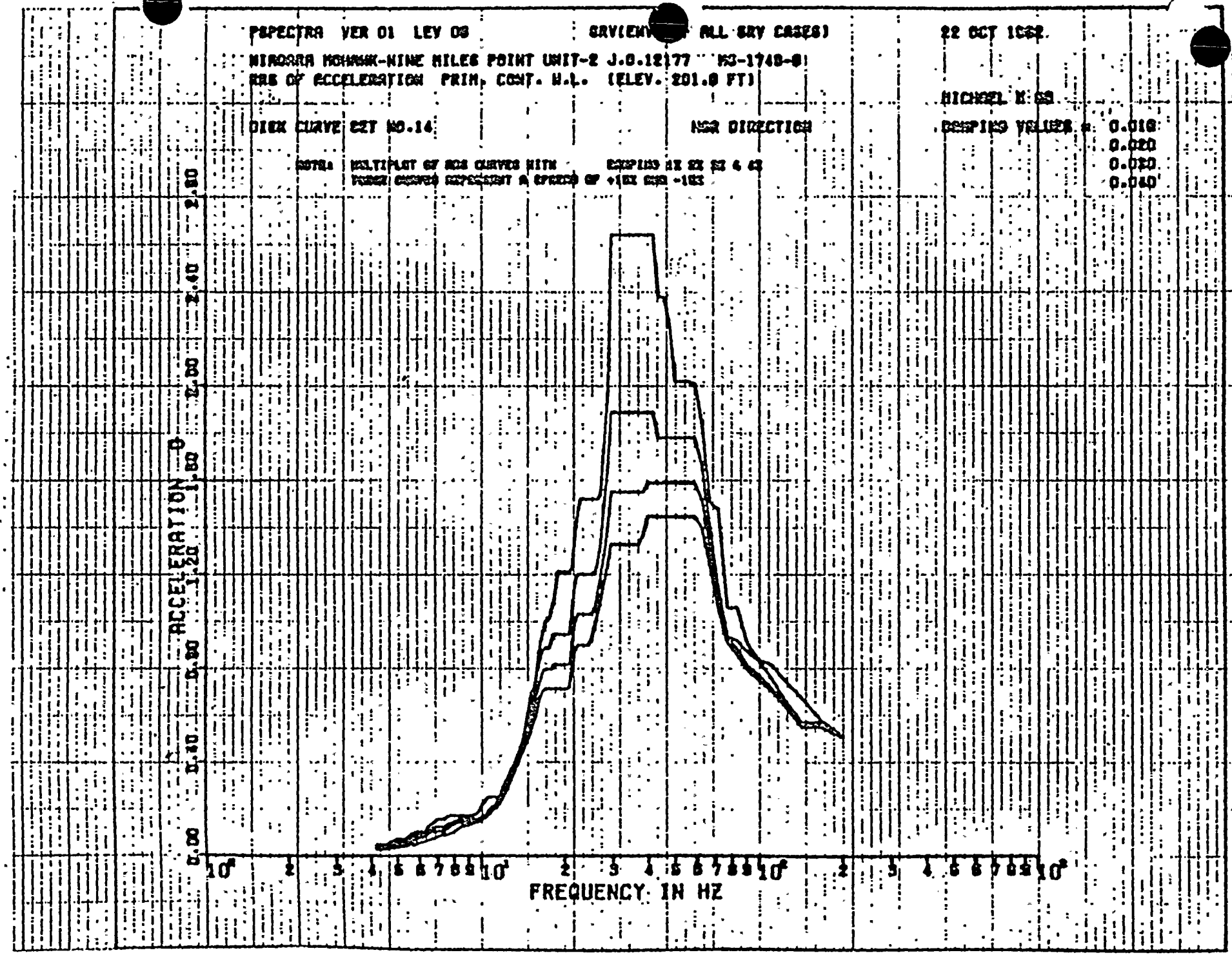
DISK CURVE SET 03.18 VER DIRECTION DAMPING VALUES = 0.010, 0.020, 0.030, 0.040

CONTA. MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% 3% & 4%
FACTOR SCALED COMPONENT OF SPECTRA OF +15% RMS -15%



P-37

REF 112


PSPECTRA VER 01 LEV 00
SRV(EN
ALL SRV CASES)
22 OCT 1982
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 M3-1748-8
RMS OF ACCELERATION PRIM. CONT. W.L. (ELEV. 201.0 FT)
MICHAEL K. SS
DIEK CURVE SET NO.14
NSR DIRECTION
DAMPING VALUES = 0.010
0.020
0.030
0.040
NOTE: MULTIPLOT OF NSR CURVES WITH DAMPING
ACCELERATION - G
FREQUENCY IN HZ

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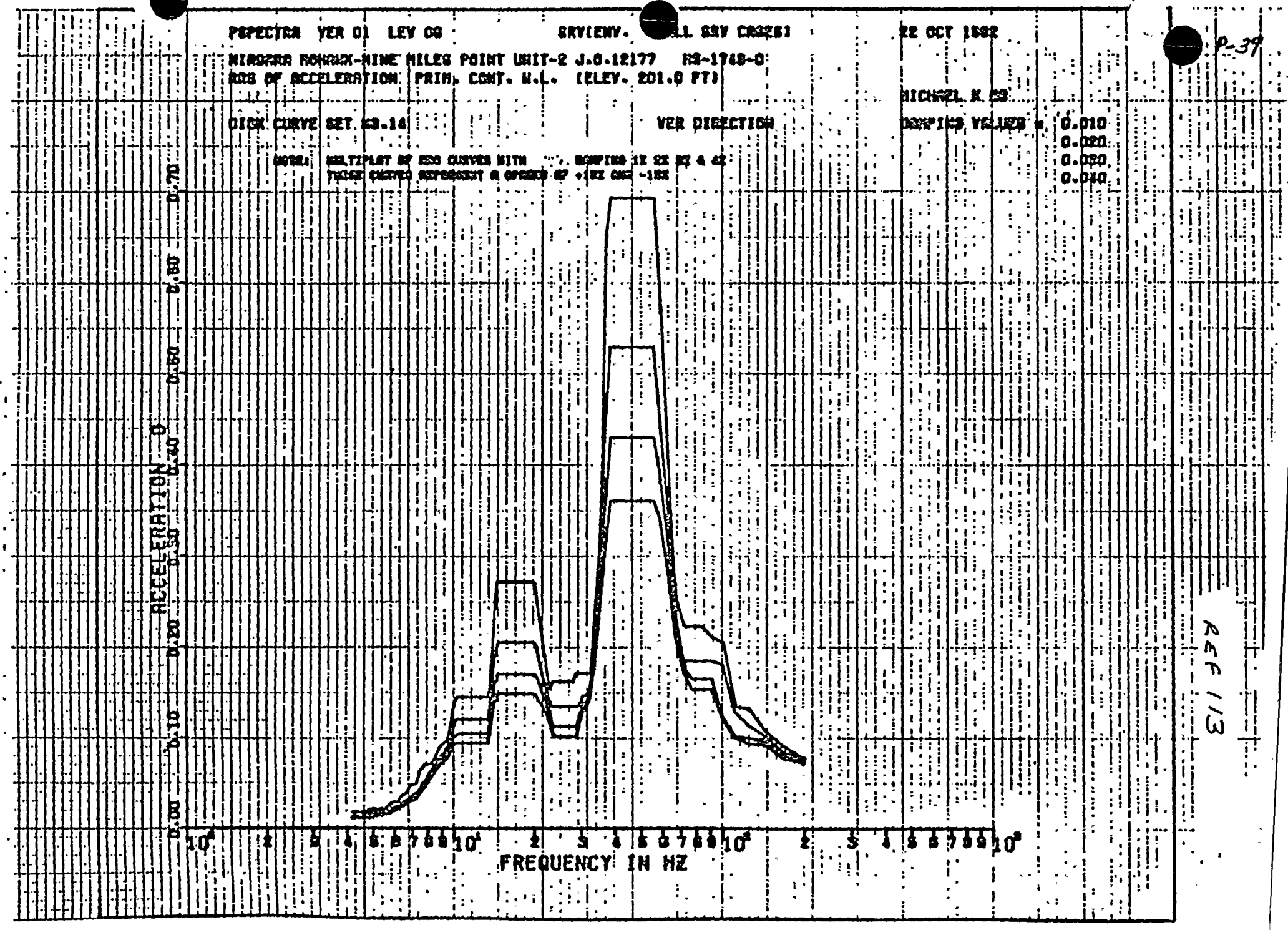
REF 113


PEPECTRA VER 01 LEV 00
22 OCT 1982
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177
RS-1748-0
ROS OF ACCELERATION PRIM. CONT. W.L. (ELEV. 201.0 FT)
MICHAEL K.
DICK CURVE SET 63.14
VER DIRECTION
DAMPING VALUES = 0.010
0.020
0.030
0.040
ACCELERATION G
0.00
0.10
0.20
0.30
0.40
0.50
0.60
0.70
FREQUENCY IN HZ

P-39

REF 113

PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

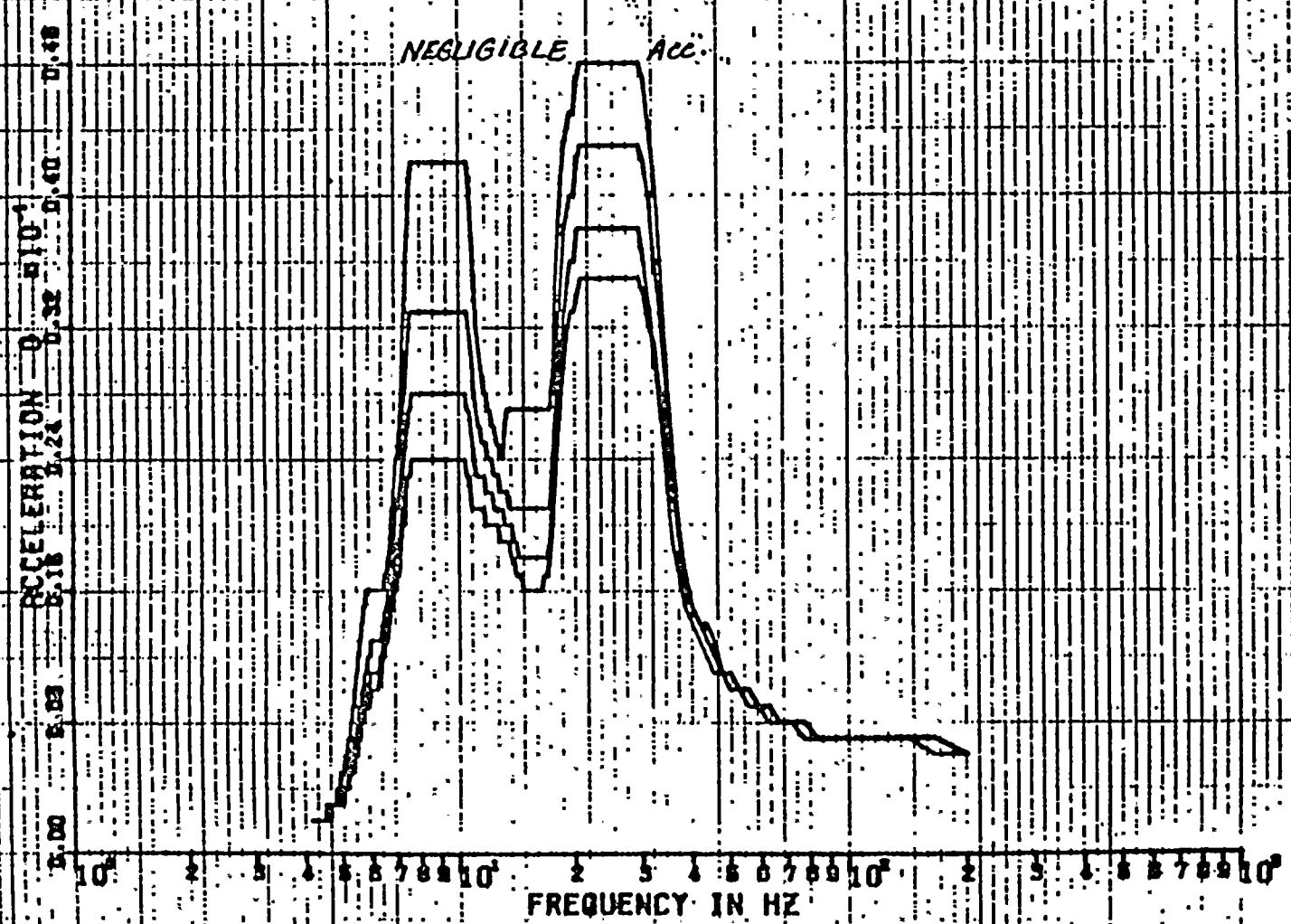
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 M3-1748-0

RRS OF ACCELERATION SECONDARY CONT. (ELEV.208.0 FT)

MICHAEL K. CO

DISK CURVE SZT 03.15 NOR DIRECTION DAMPING VALUES = 0.010 0.020 0.030 0.040

NOTES: MULTIPLIER OF RRS CURVES WITH DAMPING 1% EX DE & 4% THESE CURVES REPRESENT A SPREAD OF +10% OVER -10%



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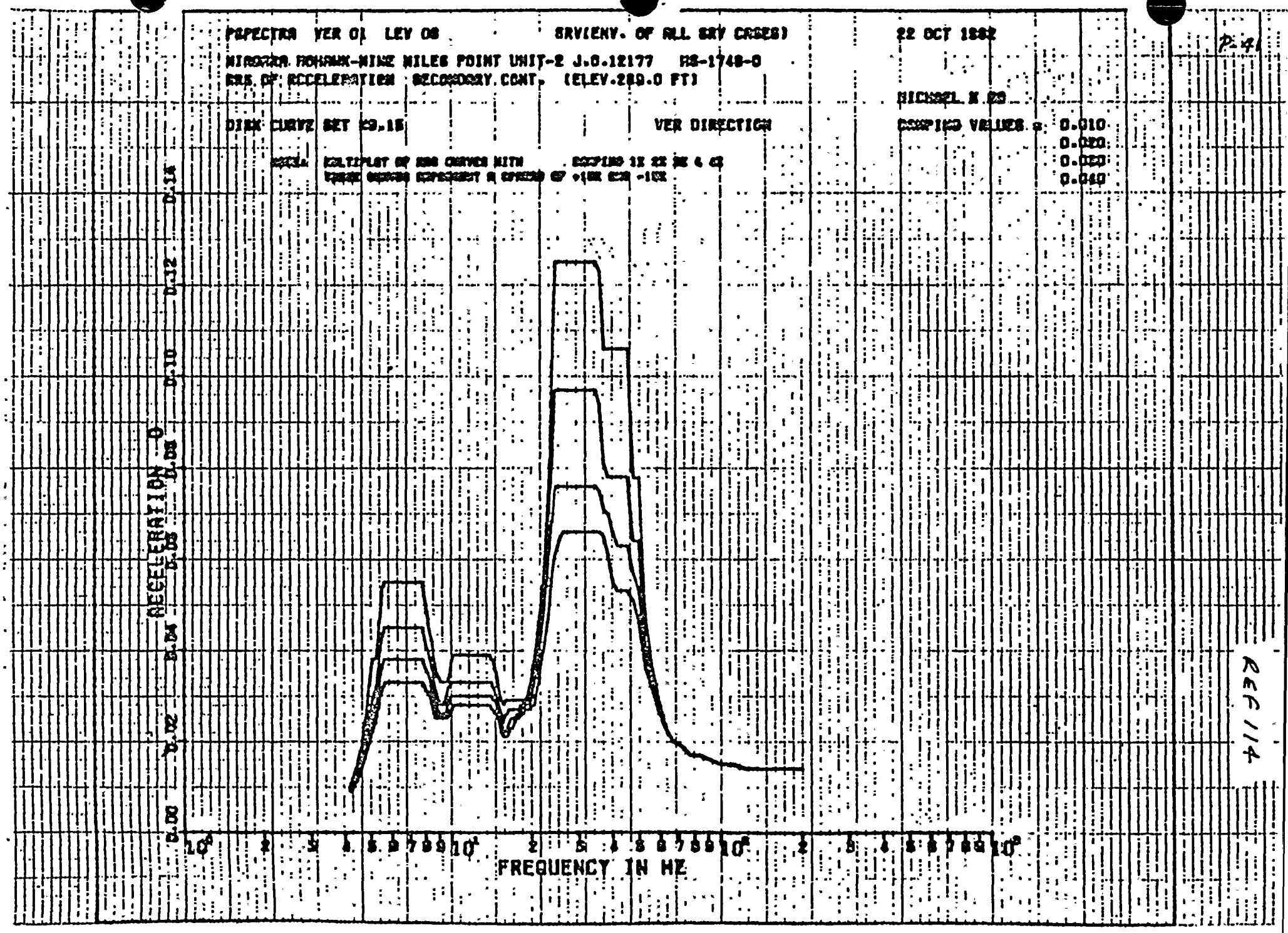
REC 118


PSPECTRA VER 01 LEV 08
SRV(ENV. OF ALL SRV CASES)
22 OCT 1982
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 RS-1748-0
SRS OF ACCELERATION SECONDARY CONT. (ELEV.289.0 FT)
MICHAEL K 09
DIRK CURVE SET 29.15
VER DIRECTION
COMPING VALUES = 0.010
0.020
0.030
0.040
ACCELERATION G
FREQUENCY IN HZ

REF 114

PSPECTRA VER 01 LEV 00 SRV(ENV. OF ALL SRV CREEB) 22 OCT 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1740-0

RMS OF ACCELERATION PRIMARY CONT. (ELEV.208.11 FT)

MICHAEL K. SS

DISK CURVE SET NO.10 NS2 DIRECTION DAMPING VALUES = 0.010

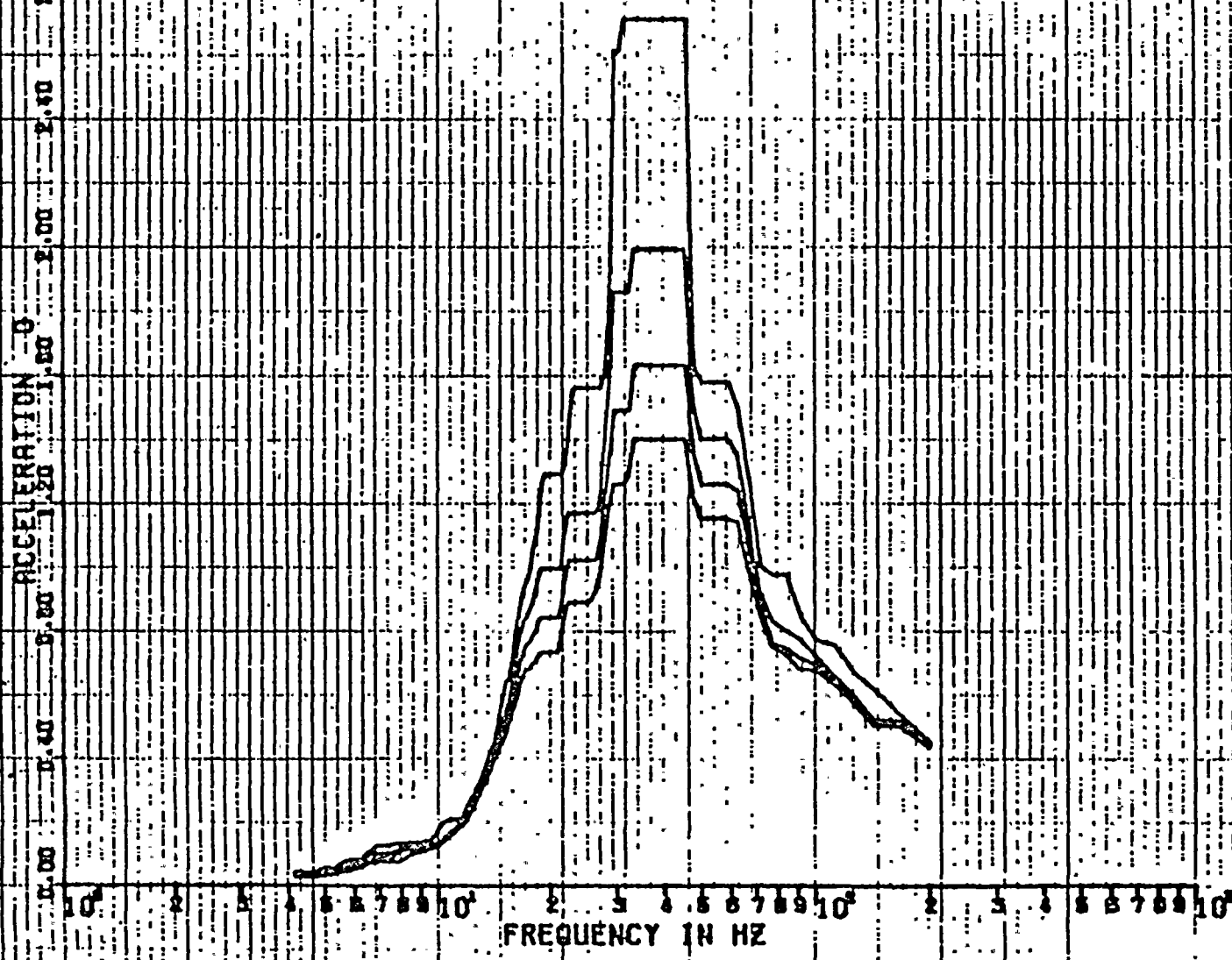
0.020

0.030

0.050

NOTES: MULTIPLOT OF NS2 CURVES WITH DAMPING 1% 2% 3% & 5%.

TWO-SIGMA ENVELOPE REPRESENTS A SPECTRUM OF ±1SIGMA -1SIGMA



P-Pe

REF 115

PSPECTRA VER 01 LEV 03 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

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NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-8.

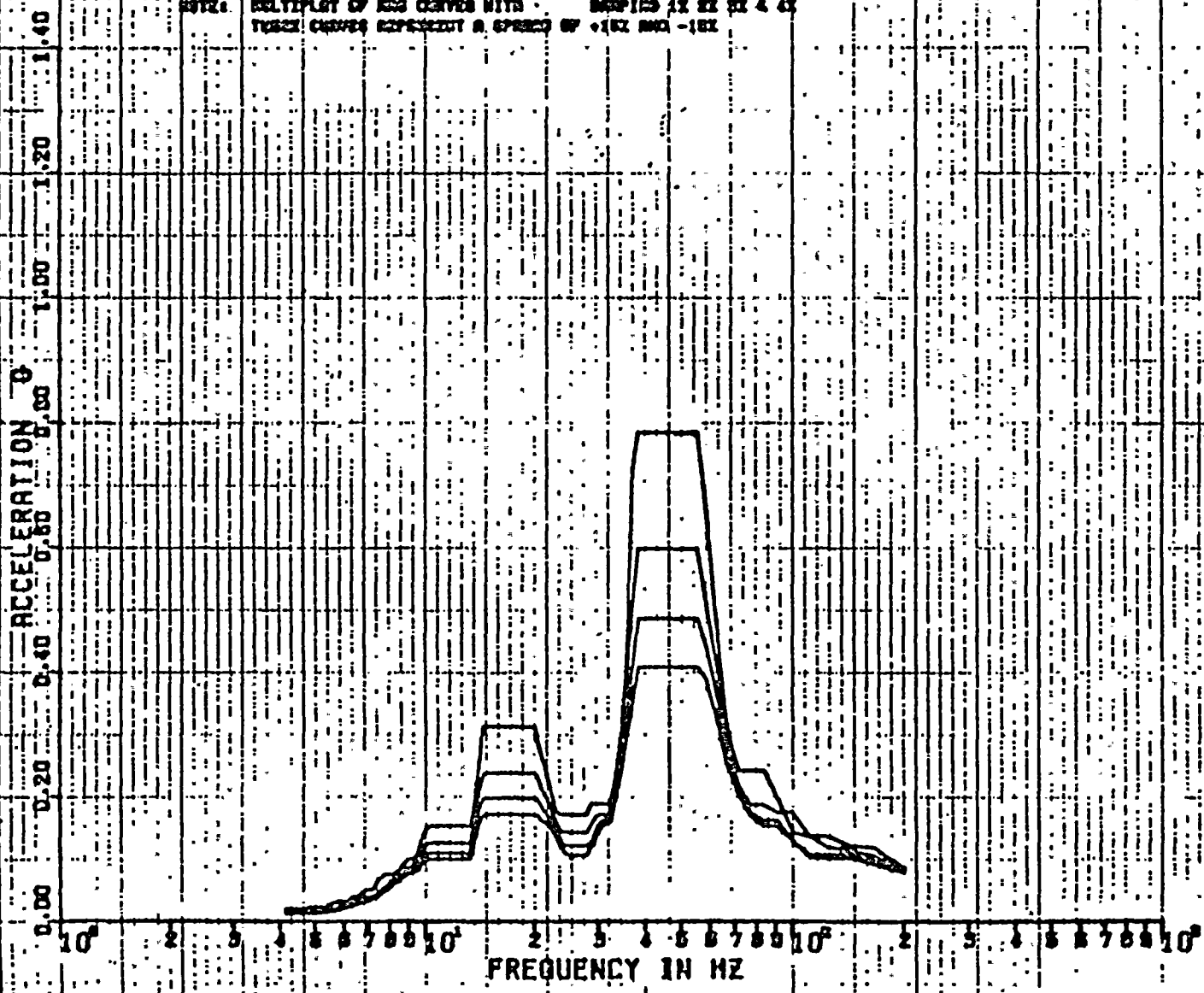
RRS OF ACCELERATION PRIMARY CONT. (ELEV.208.11 FT)

MICHAEL W ED

DISK CURVE SET 68.16 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% 3% & 4%
THREE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 115

P-44

PSPECTRA VER 01 LEV 03 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1740-0

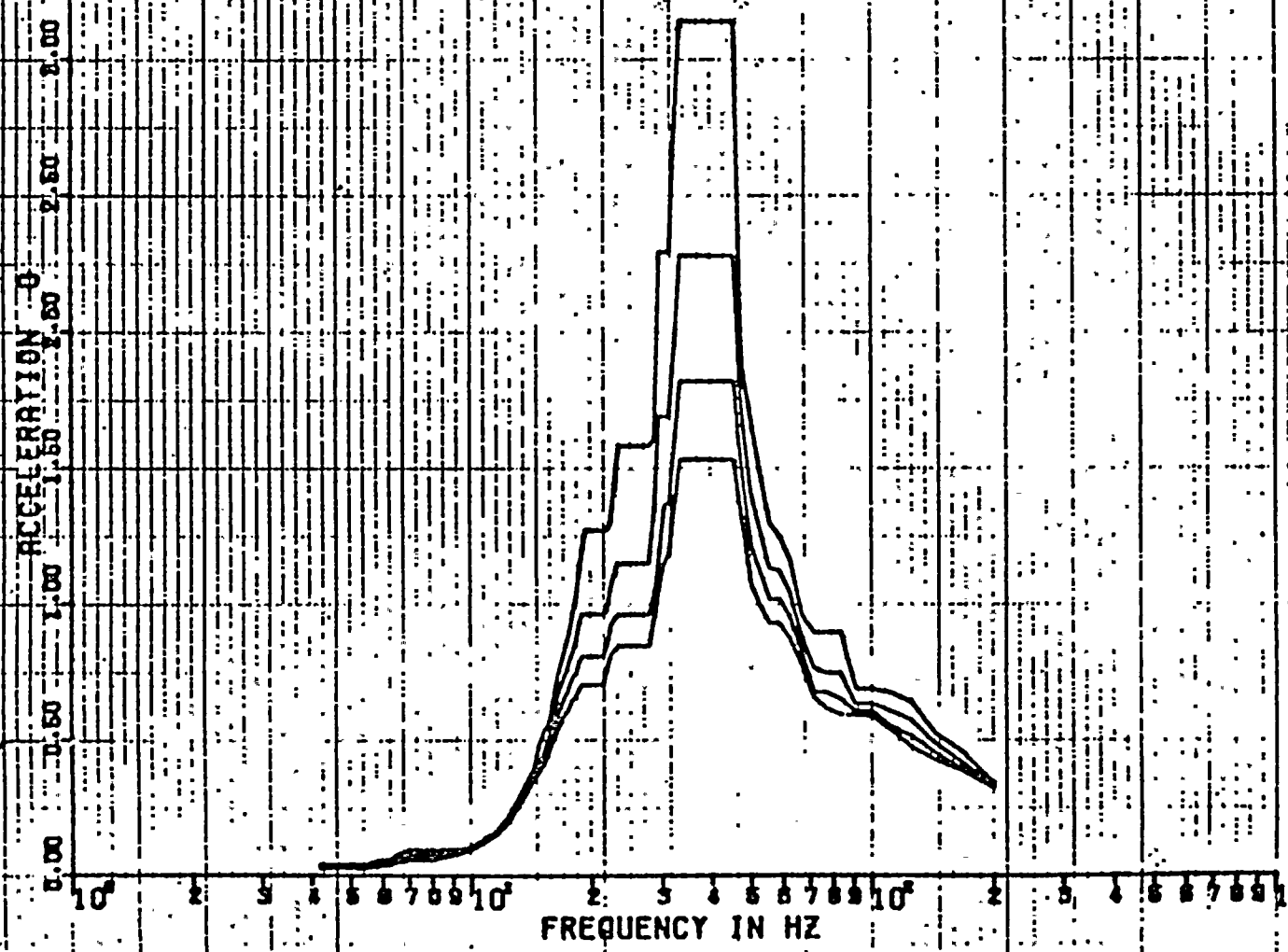
RMS OF ACCELERATION PRIMARY CONT. (ELEV.212.22 FT)

MICHAEL K 03

DISK CURVE SET NO.17 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 116

P-45

PSPECTRA VER 01 LEV 09 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

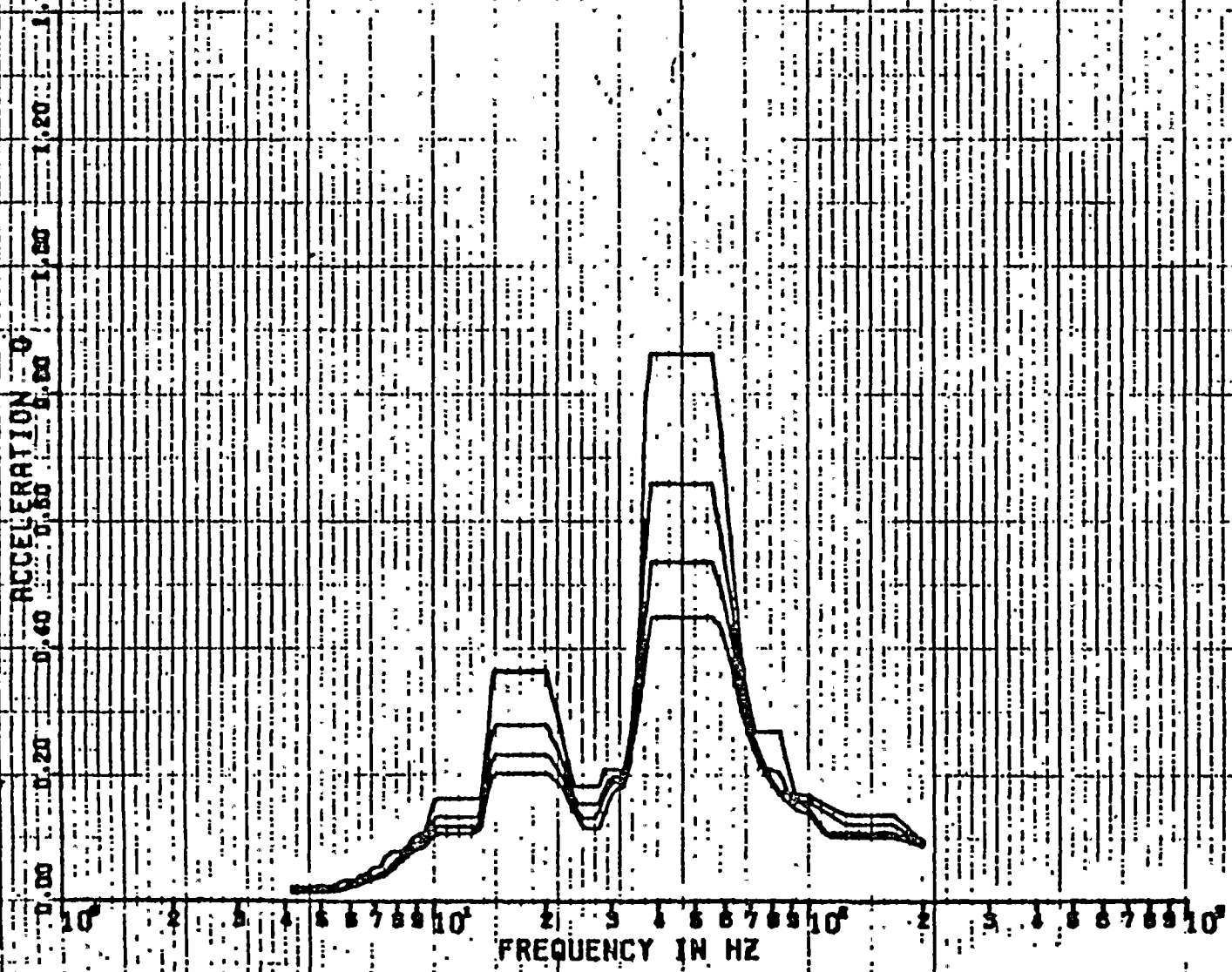
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 RS-1748-0

CRS OF ACCELERATION PRIMARY CONT. (ELEV.212.22 FT)

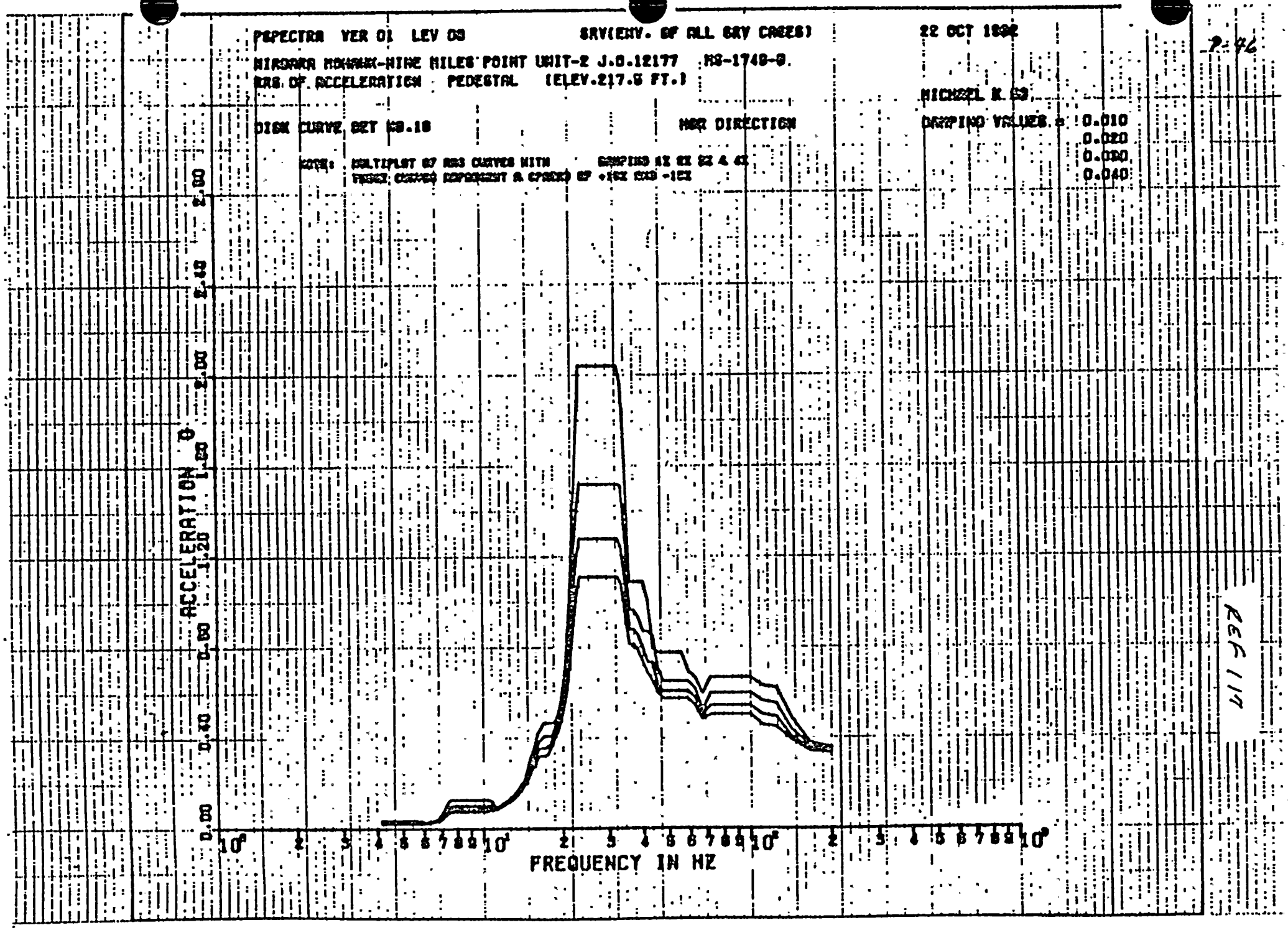
MICHAEL K CO

DISK CURVE SET NO.17 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLY BY CRS CURVES WITH , ECEPING 1X 2X 3X & 4X
THICK CURVES REPRESENT A SPEED OF +10% AND -10%



REF 116


P-46
PSPECTRA VER 01 LEV 03
SRV(ENV. OF ALL SRV CASES)
22 OCT 1982
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-B.
HRS OF ACCELERATION PEDESTAL (ELEV.217.5 FT.)
MICHAEL K.
DISK CURVE SET 03.18
HOR DIRECTION
DAMPING VALUES: 0.010
0.020
0.030
0.040
NOTE: MULTIPLIT BY 1.3 CURVES WITH DAMPING 1% 2% 3% & 4%
FREQ. CURVES REPRESENT A SPREAD OF +10% TO -10%
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ
REF 110

P&SPECTRA VER 01 LEV 03 : SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

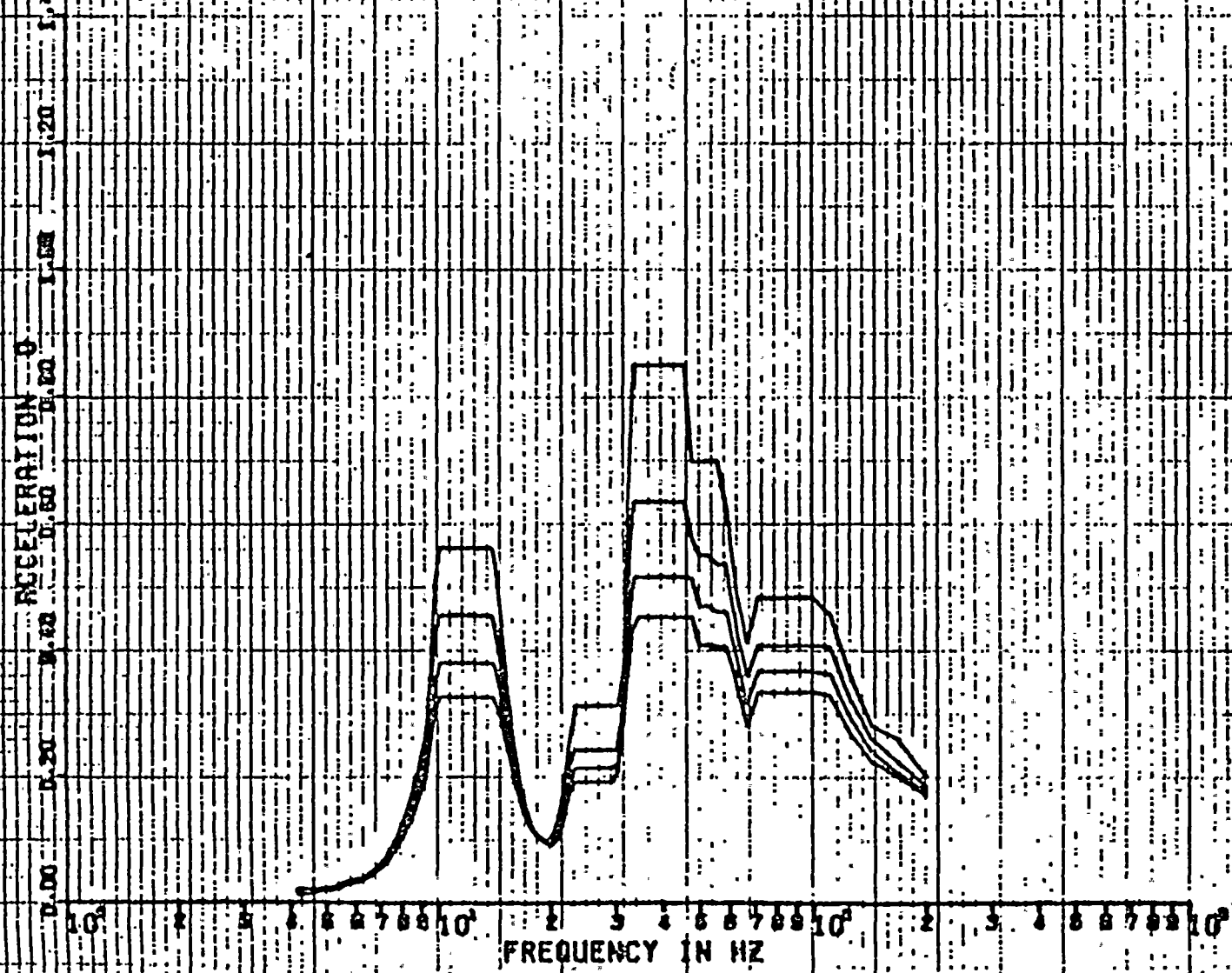
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 RS-1748-8

ERS OF ACCELERATION. PEDESTAL (ELEV.217.5 FT.)

MICHAEL K. CO.

DICK CURVE SET NO.18 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLY OF ERS CURVES WITH DAMPING 1X 2X 3X & 4X
THESE CURVES REPRESENT A SPACING OF +1SX ERS -1SX



p.47

REF 117

P-48

PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1740-0

RRS OF ACCELERATION : PRIMARY CONT. (ELEV. 218.33 FT)

MICHAEL K. CO

DISK CURVE SET 83.18 NS2 DIRECTION DAMPING VALUES = 0.010

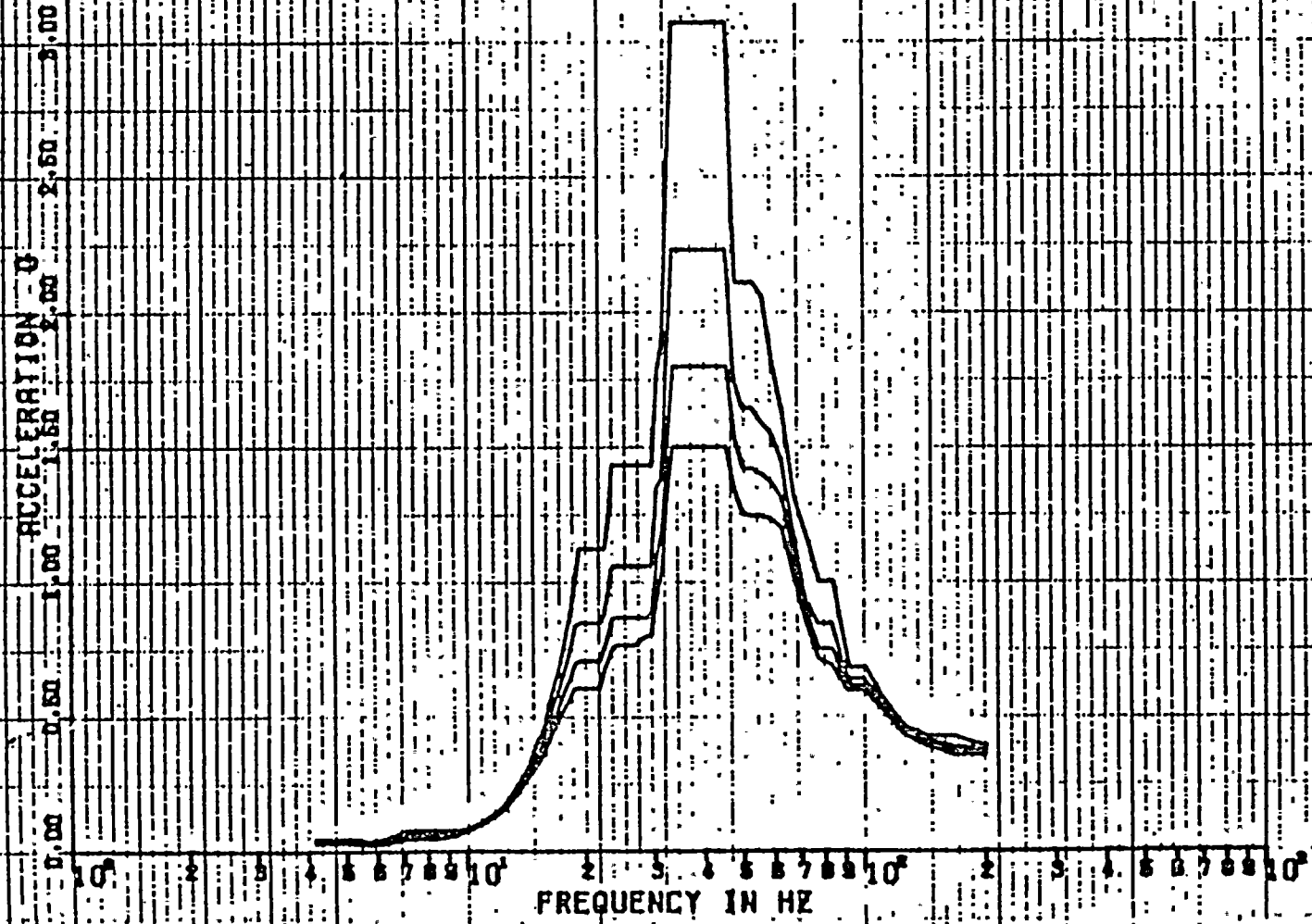
0.020

0.030

0.060

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% 3% & 6%

THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 118

P-49

PSPECTRA VER 01 LEV 09 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

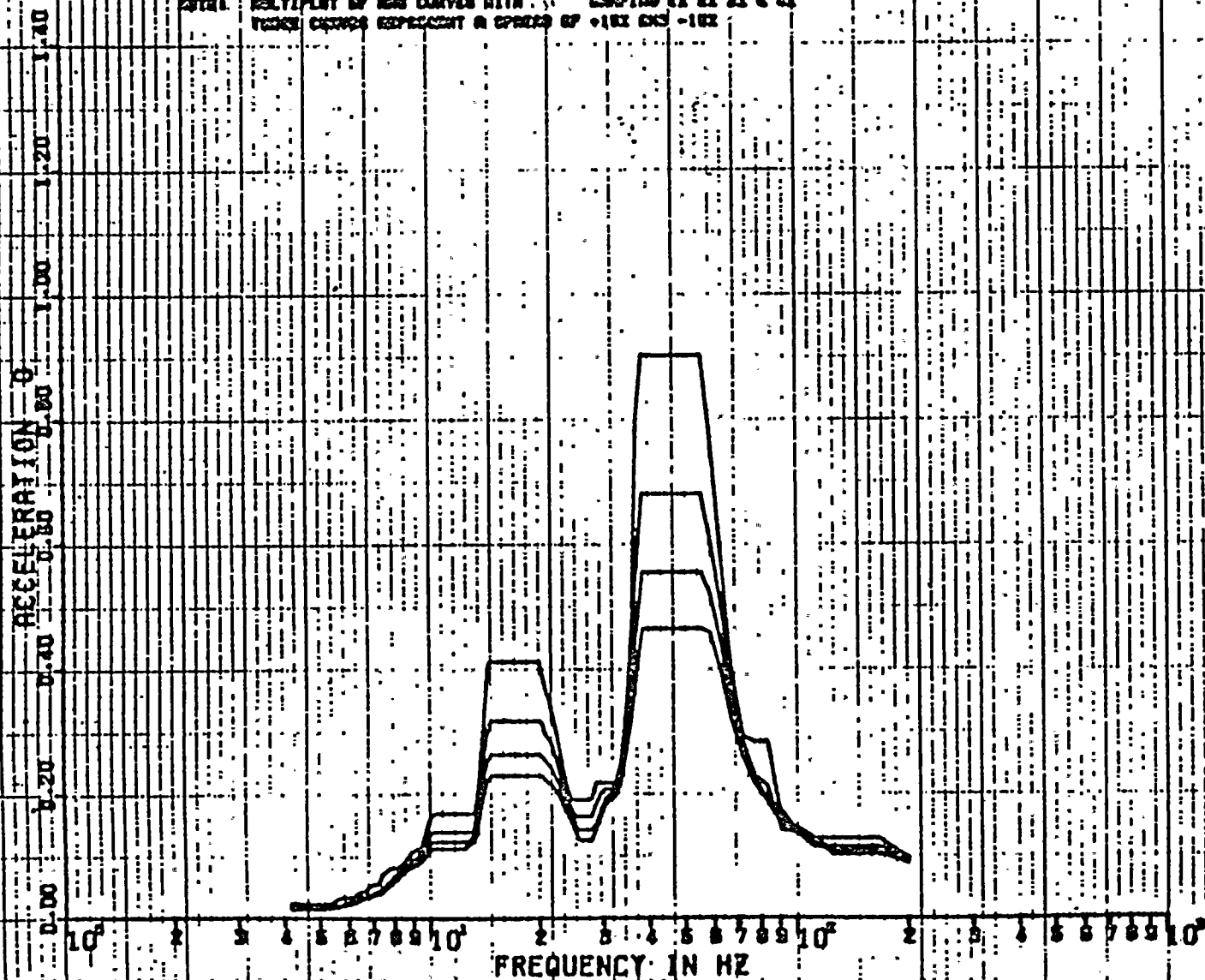
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 M2-1748-0

RMS OF ACCELERATION PRIMARY CONT. (ELEV. 218.33 FT)

MICHAEL K.CO

DISK CURVE SET NO.19 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% 3% & 4%
THICKER CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 1/8

P-50

PSPECTRA VER 01 LEV 03 SRVIENV. OF ALL SRV CASES) 22 OCT 1982

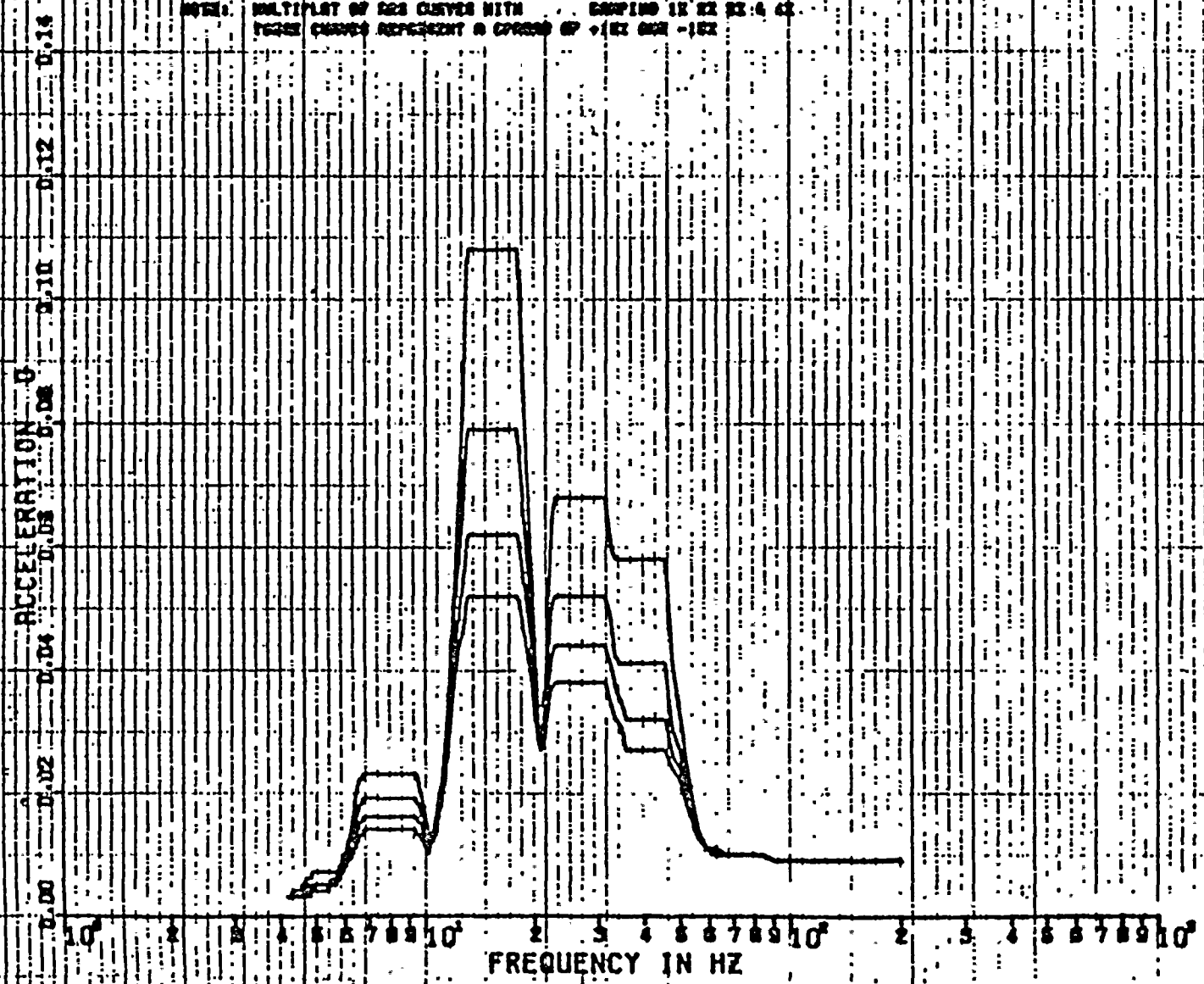
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0

ERS OF ACCELERATION TOP OF SEC. CONT. (ELEV.365.03 FT)

MICHAEL K CO

DISK CURVE SET 08.20 HOR DIRECTION DAMPING VALUES = 0.010
0.020
0.080
0.040

NOTES: MULTIPLIT OF ERS CURVES WITH DAMPING 1% 2% 3% 4 4%
THESE CURVES REPRESENT A COMBINED OF +1EX AND -1EX



REF 119

P-54

PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

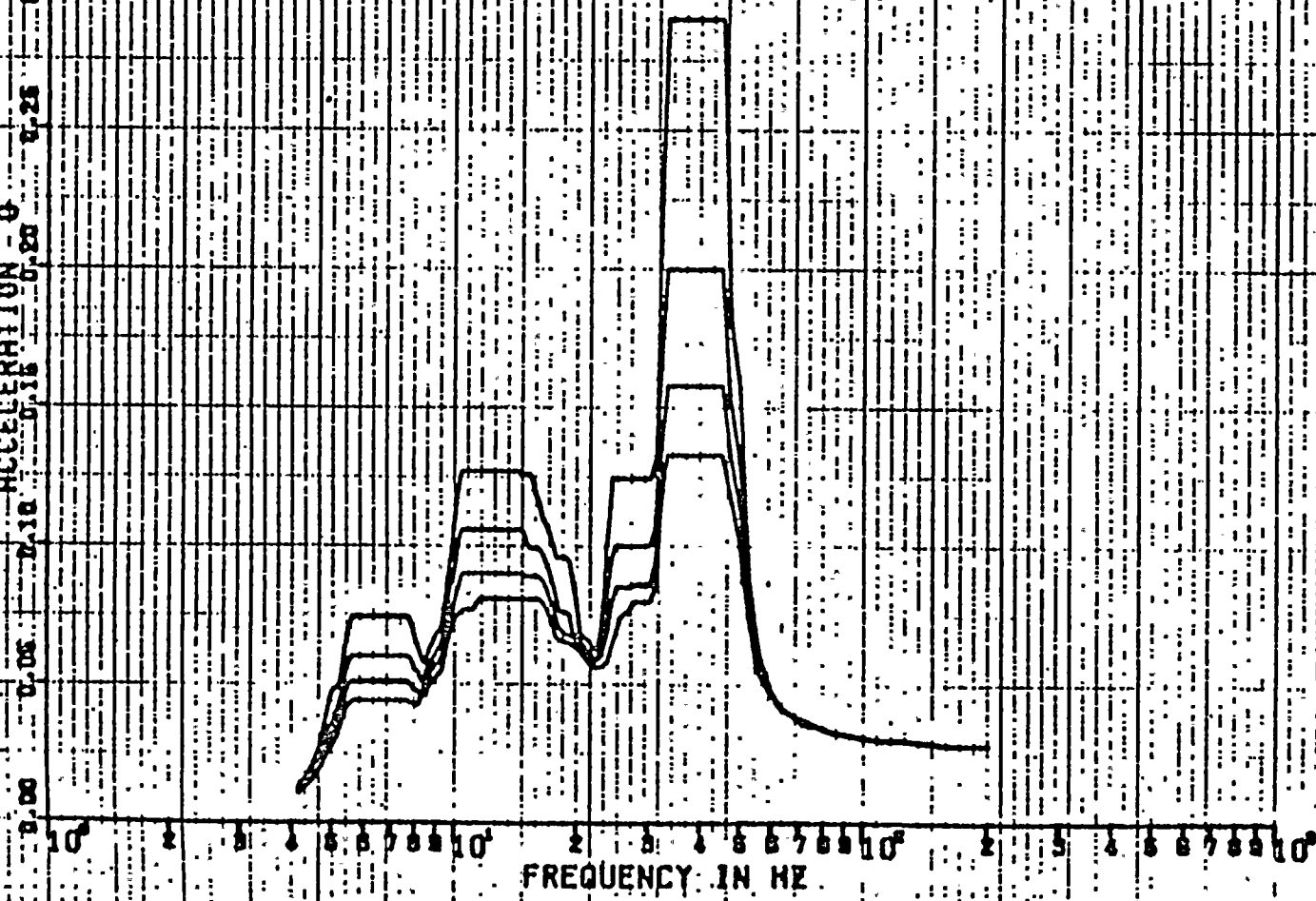
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0

RMS OF ACCELERATION TOP OF SEC. CONT. (ELEV.368.03 FT)

MICHAEL K CO

DISK CURVE CET MS.20 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% 3% & 4%
THICK CURVES REPRESENT A BROADEN OF +10% AND -10%



REF 119

P-52

SPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

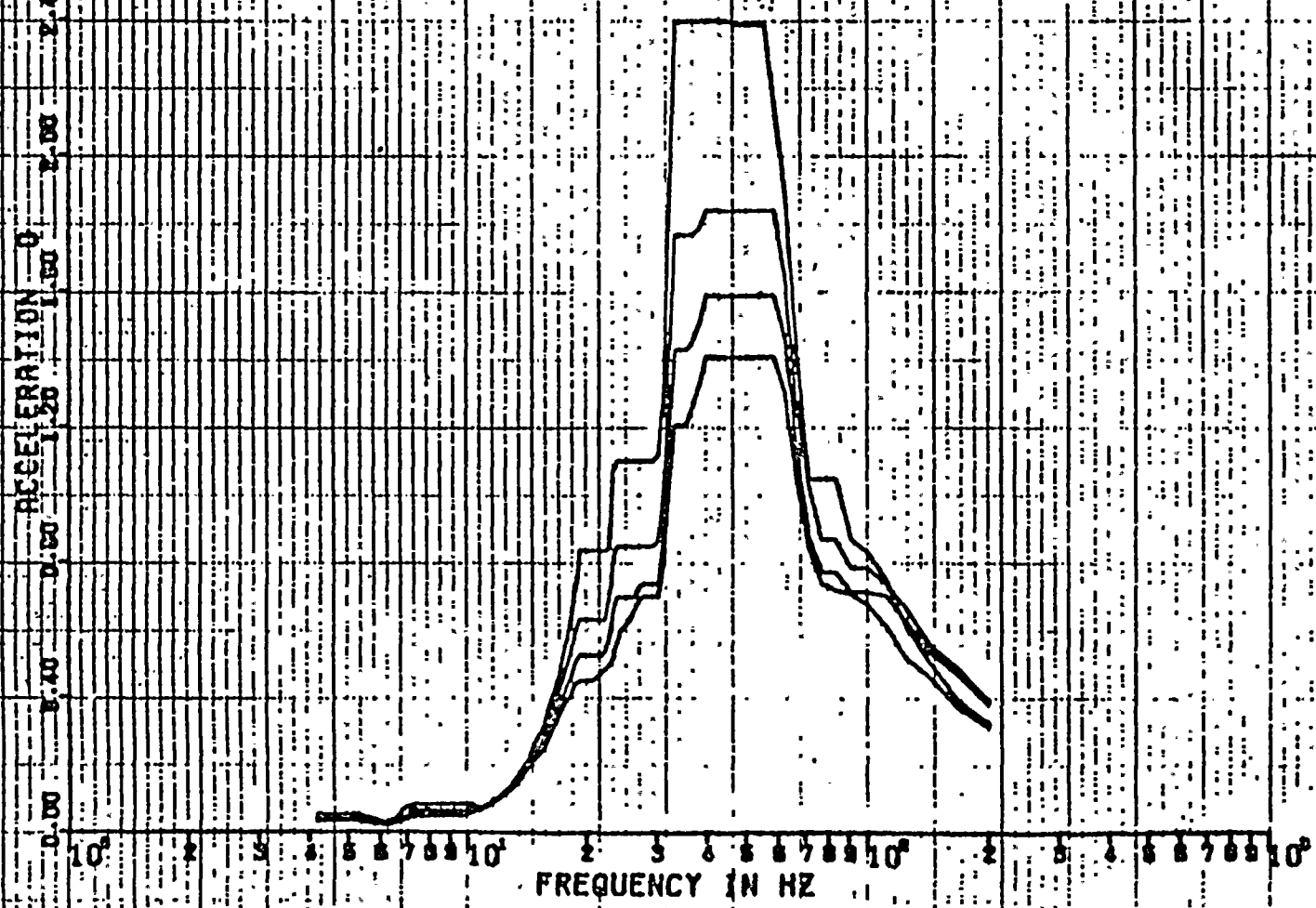
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1749-0

RMS OF ACCELERATION PRIMARY CONT. (ELEV.224.88 FT.)

MICHAEL K CO

DISK CURVE SET NO.21 HOR DIRECTION DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 120

P-53

SPECTRA VER 01 LEV 08 SRVIENV. OF ALL SRV CASES) 22 OCT 1982

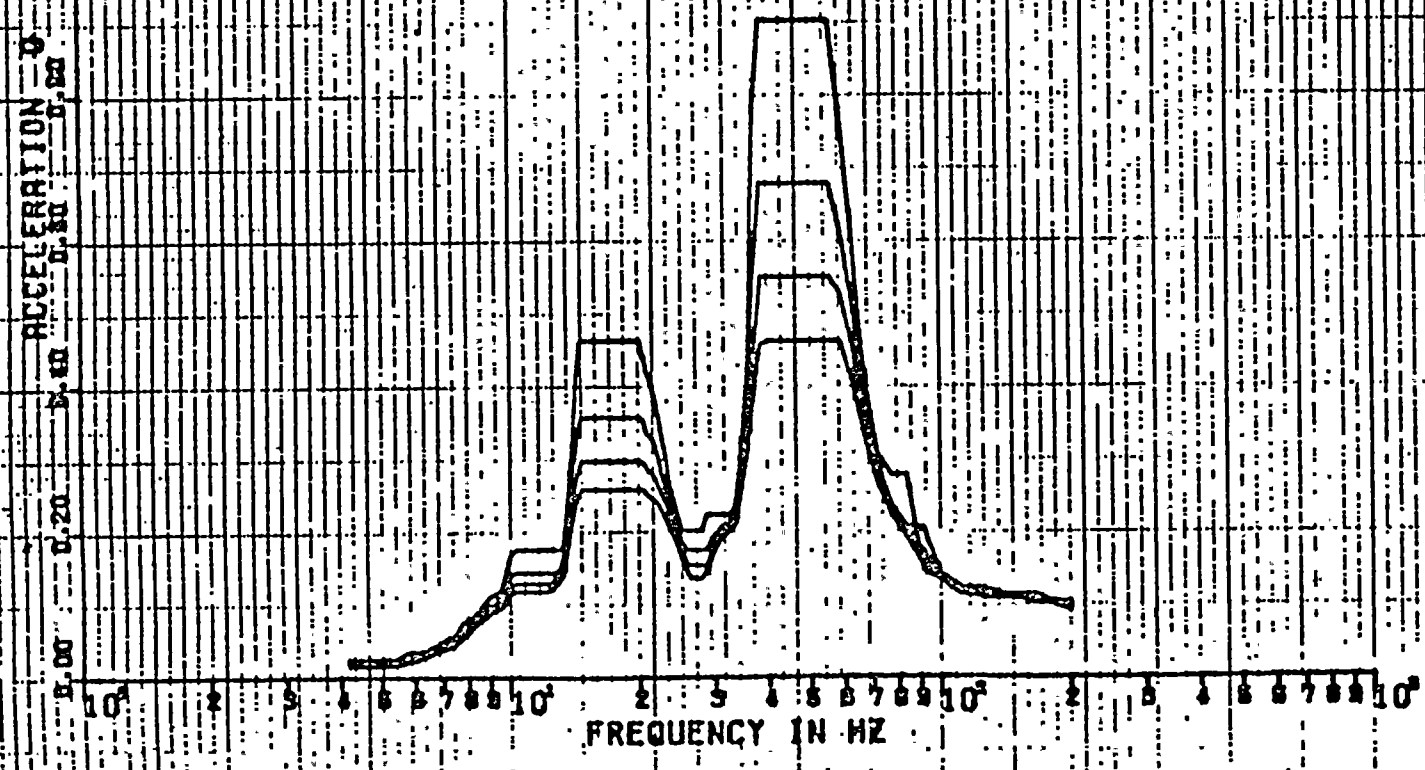
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 H3-1740-8

ROS OF ACCELERATION PRIMARY CONT. (ELEV.224.88 FT.)

MICHAEL K PO

DISK CURVE SET 29.21 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.030 0.040

NOTES: MULTIPLOT OF ROS CURVES WITH DAMPING .1% .2% .3% & .4%
THREE CURVES REPRESENT A SPACING OF +10% OVER -10%



REF 120

P-54

PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CREES) 22 OCT 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-8

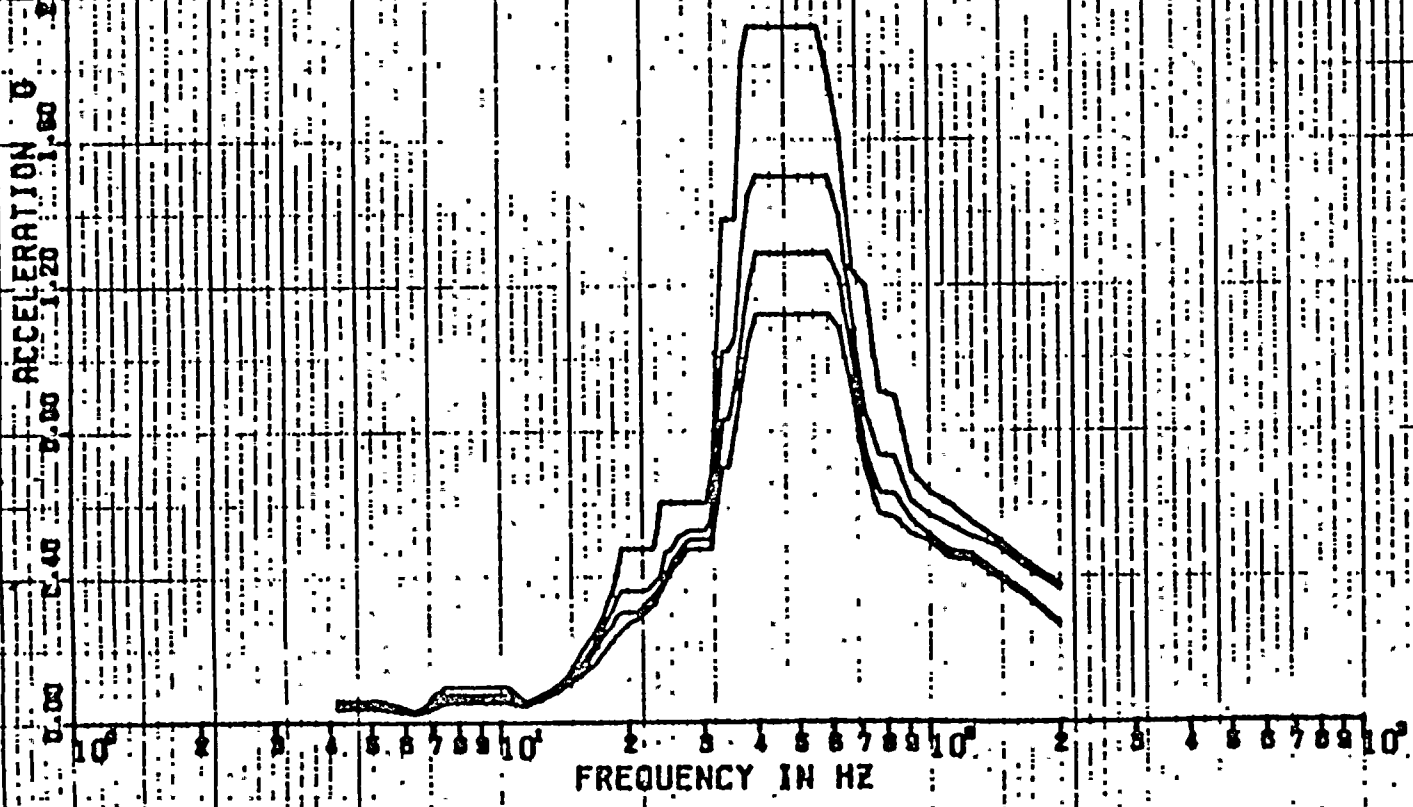
RMS OF ACCELERATION PRIMARY CONT. (ELEV.231.44 FT)

MICHAEL K DO

DISK CURVE SET N9.22 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLOT OF RCS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 121

PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

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MIRORRA MOHSIK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0

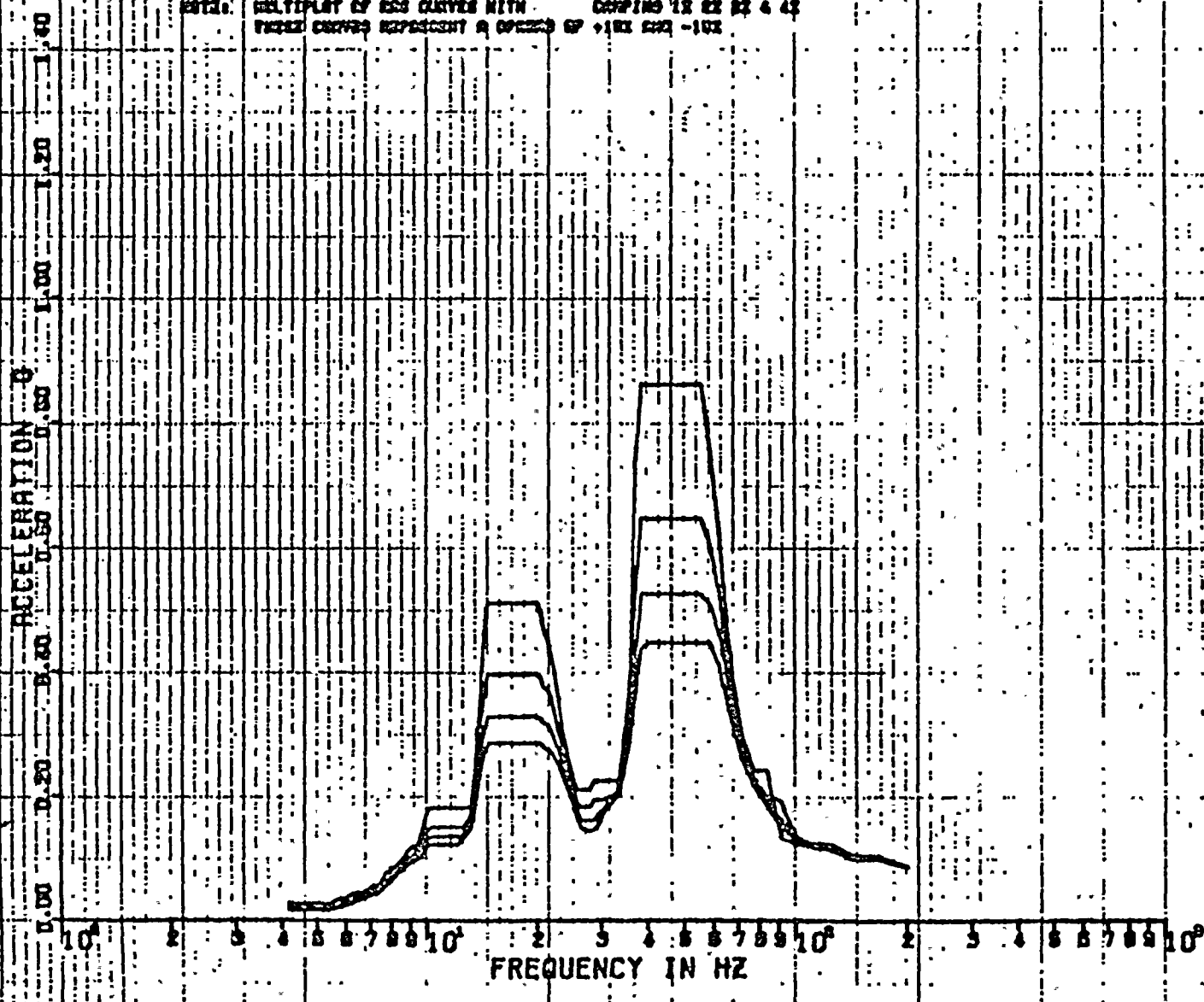
RRS OF ACCELERATION | PRIMARY CONT. (ELEV.231.44 FT)

MICHAEL K. [illegible]

DISK CURVE SET NO.22 | VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 121

P-56

PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0

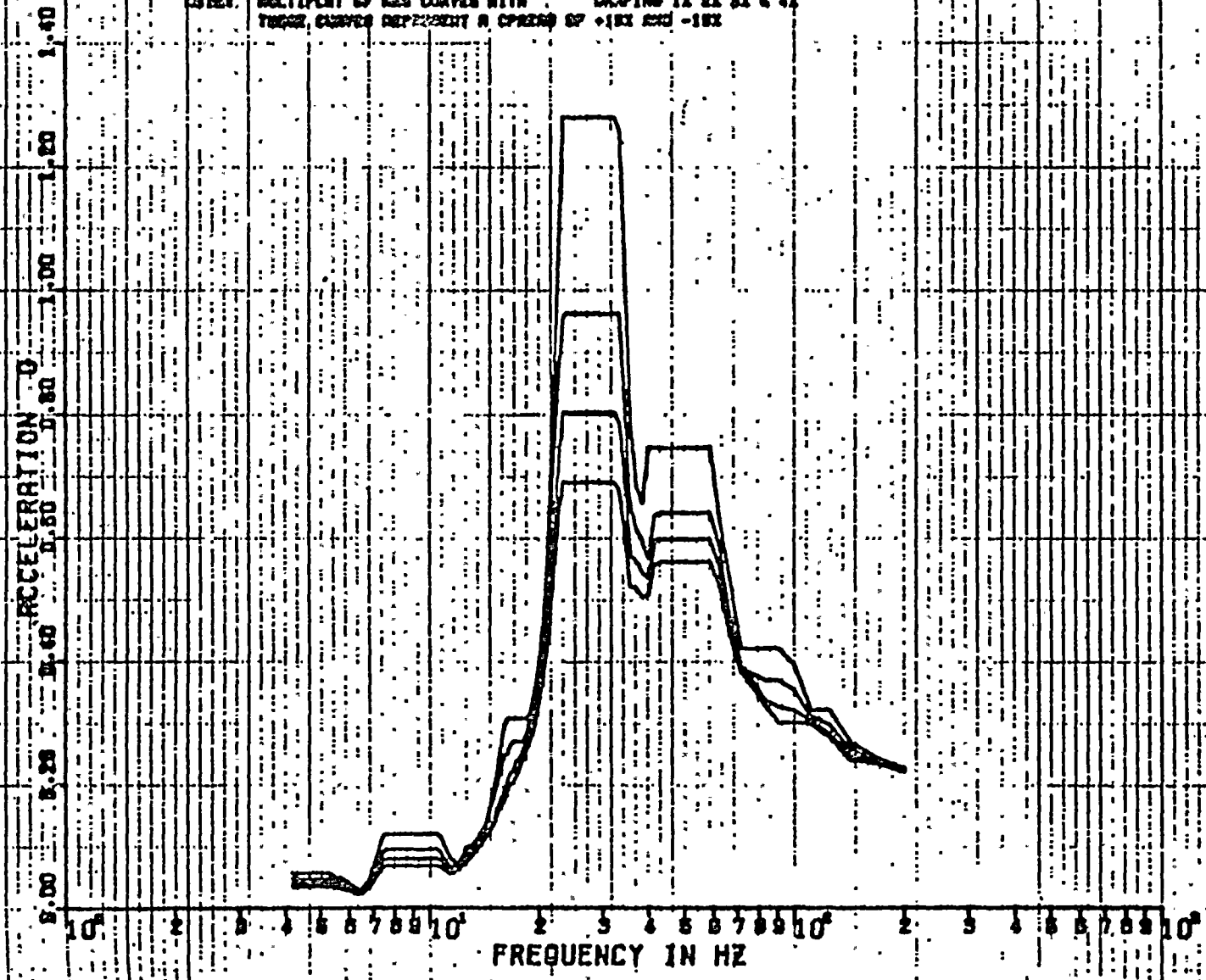
RMS OF ACCELERATION | PEDESTAL (ELEV.230.5 FT)

MICHAEL K ED.

DISK CURVE SET NO.23 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLY OF RMS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +18% AND -18%



REF 12

SPECTRA VER 01 LEV 08 SRVIENV. OF ALL SAV CASES) 22 OCT 1982

P-57

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0

RES. OF ACCELERATION PEDESTAL (ELEV.280.5 FT)

NICHOPL R.82

DISK CURVE SET 50.25 VER DIRECTION DAMPING VALUES = 0.010

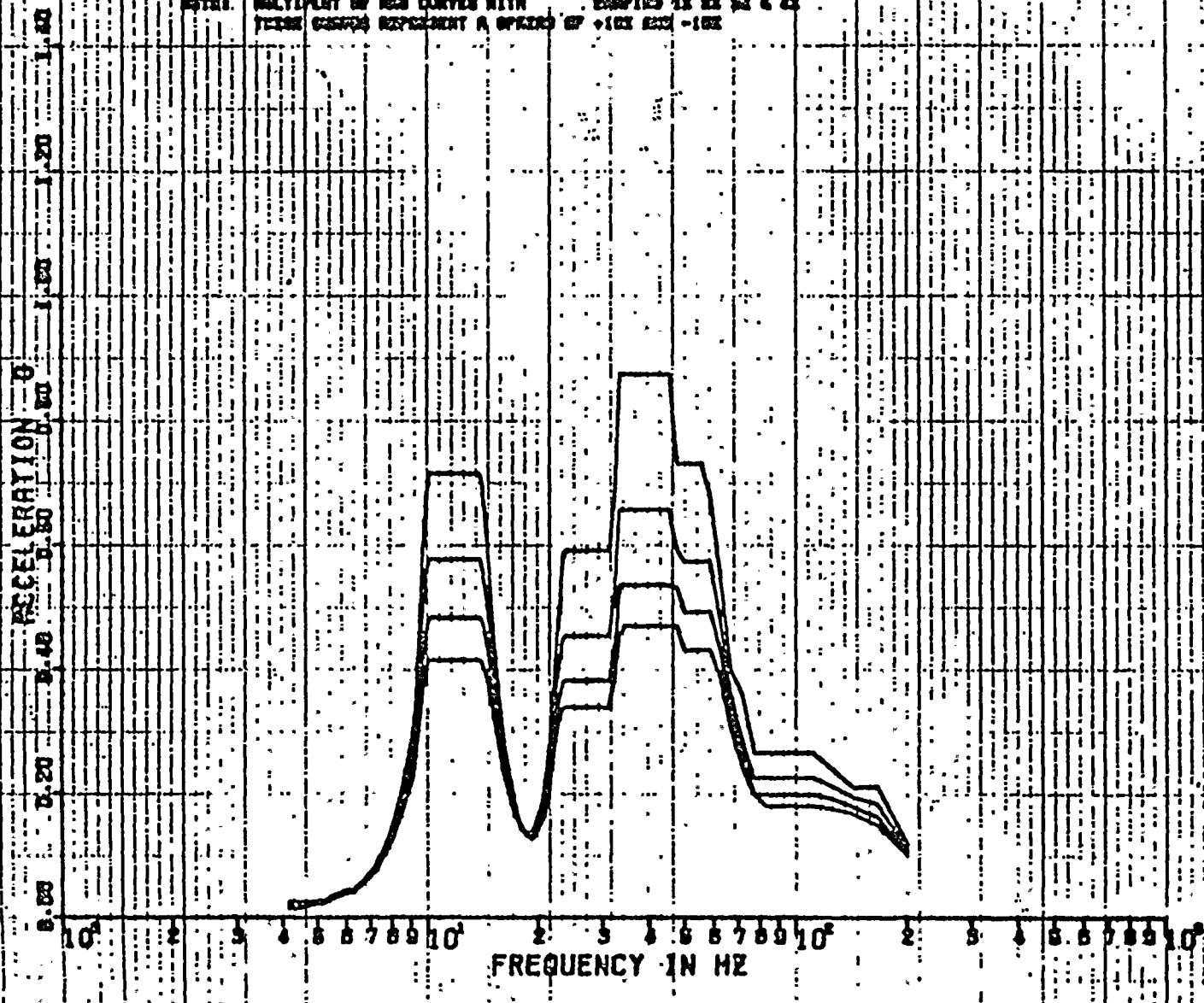
0.020

0.030

0.040

NOTE: MULTIPLOT OF RSR CURVES WITH DAMPING IN SX 52 & 42

THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 122 221 FR

P-58

PSPECTRA : VER 01 LEV 08 , SRV(ENV..U. ALL SRV CASES) 22 OCT 1982

MIRDARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1740-0

RRS OF ACCELERATION DRYWELL FL. AT CENR. LN (ELEV.230.5 FT)

MICHAEL W. [illegible]

DISK CURVE SET NO.24 HOR DIRECTION DAMPING VALUES : 0.010

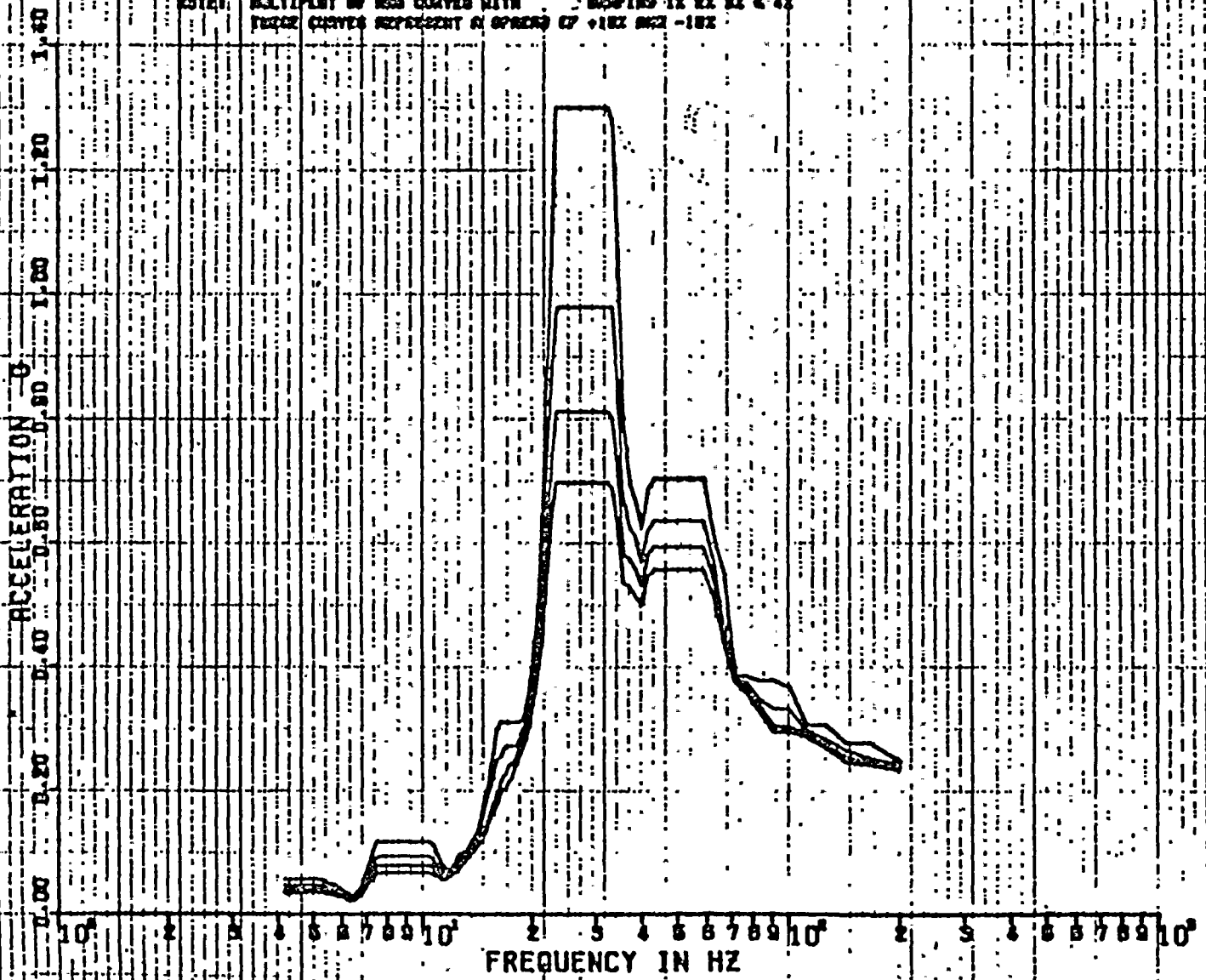
0.020

0.030

0.040

NOTE: MULTIPLY RRS CURVES WITH DAMPING 1% 2% 3% & 4%

THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 123

P-59

P&SPECTRA VER 01 LEV 08 . GRV(ENV. OF ALL GRV CASES) 22 OCT 1982

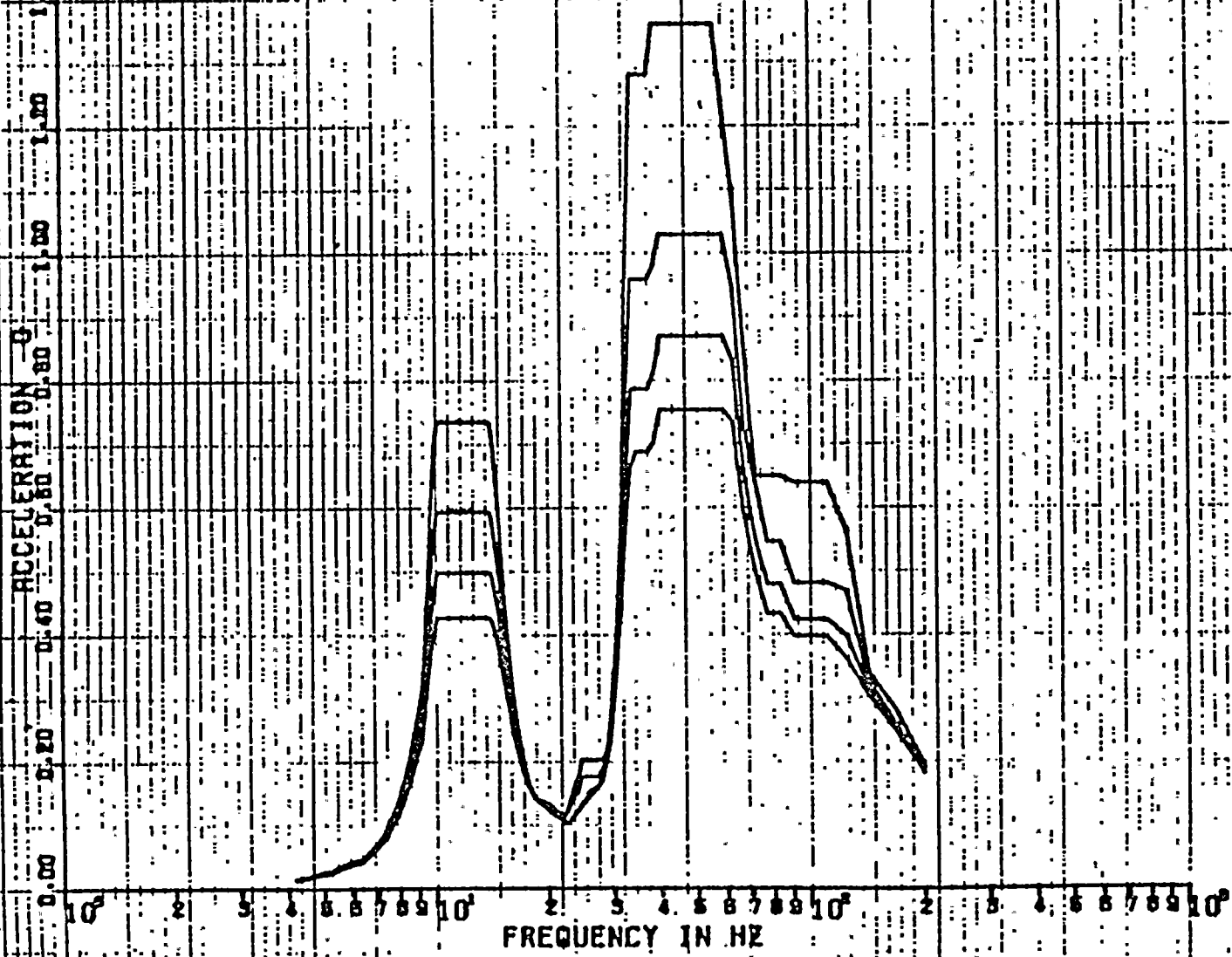
MIROGRA MOHAWK-NINE MILES POINT UNIT-2 J.B.12177 HS-1740-0.

RRS OF ACCELERATION DRYWELL FL. AT CENR. LN (ELEV 230.5 FT)

MICHAEL H. CO

DISK CURVE SET NO.24 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.050
0.060

NOTE: MULTIPLIT OF RRS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 123

P-60

SPECTRA : VER 01 LEV 08 GRV(ENV. OF ALL SRV CASES) 22 OCT 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 M2-1748-0

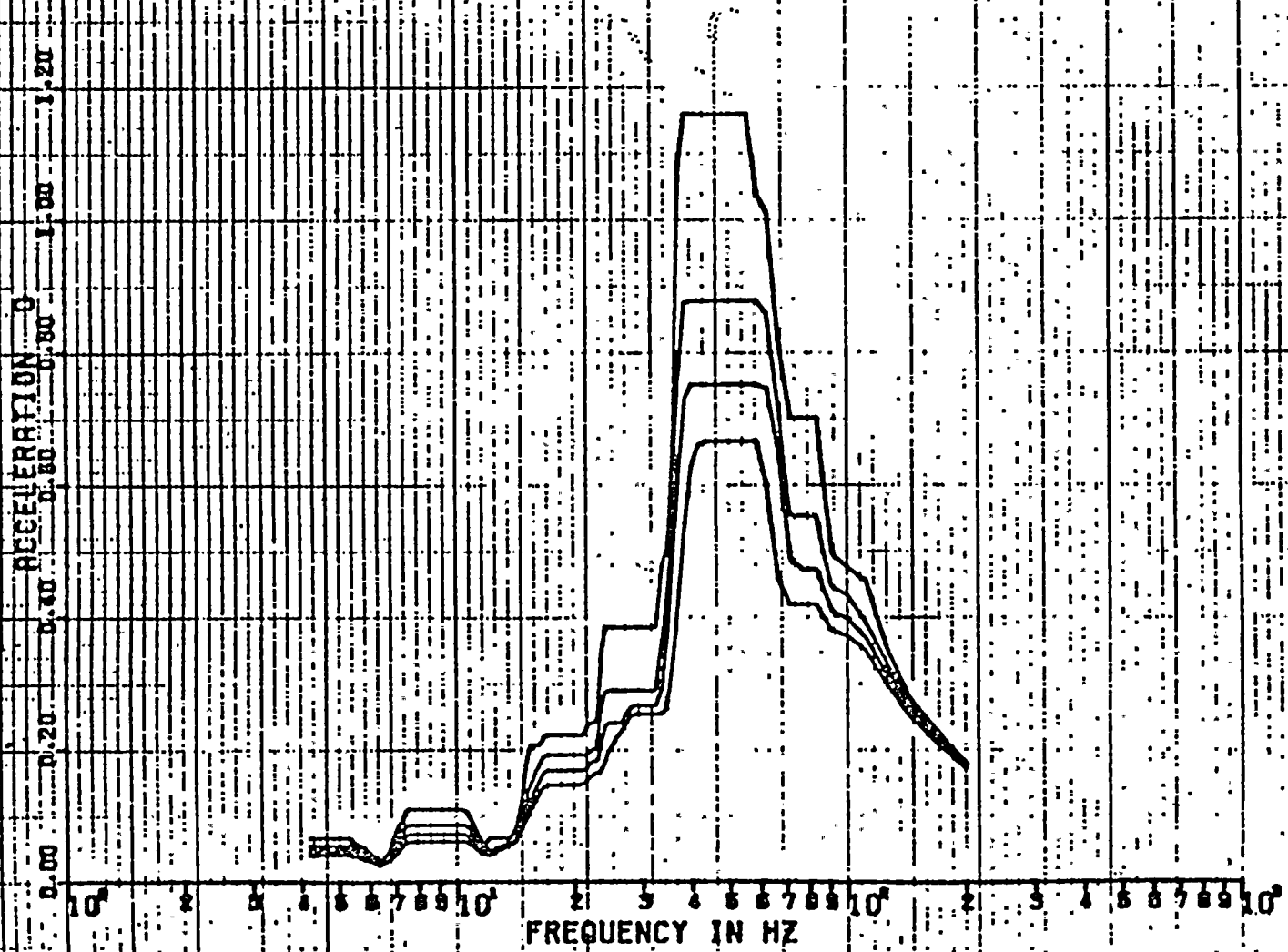
ERS OF ACCELERATION : DRYWELL FL./PRIM. CONT. (ELEV.259.80 FT)

MICHAEL R. C3

DISK CURVE SET NO.25 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 124

P&SPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

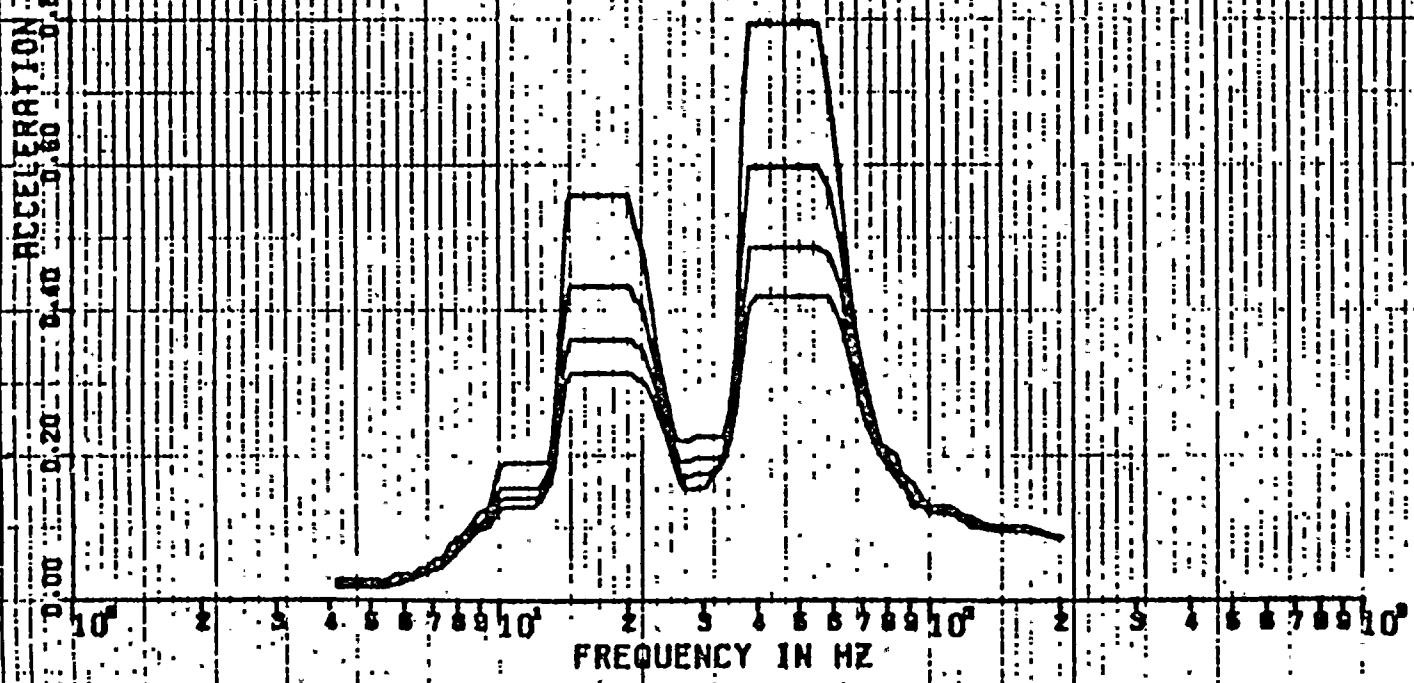
HIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 HS-1748-0

RMS OF ACCELERATION DRYWELL FL./PRIM. CONT. (ELEV.238.60 FT)

MICHAEL H CO.

DISK CURVE SET NO.25 VER DIRECTION DAMPING VALUES : 0.010 0.020 0.030 0.040

NOTE: MULTIPLIT OF RMS CURVES WITH . . . DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



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REF 124

P-62

PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

MIRORRA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-8

RRS OF ACCELERATION DRYWELL FLOOR (ELEV.239.00 FT)

MICHAEL K.CO.

DISK CURVE SZT 00.26 HOR DIRECTION DAMPING VALUES = 0.010

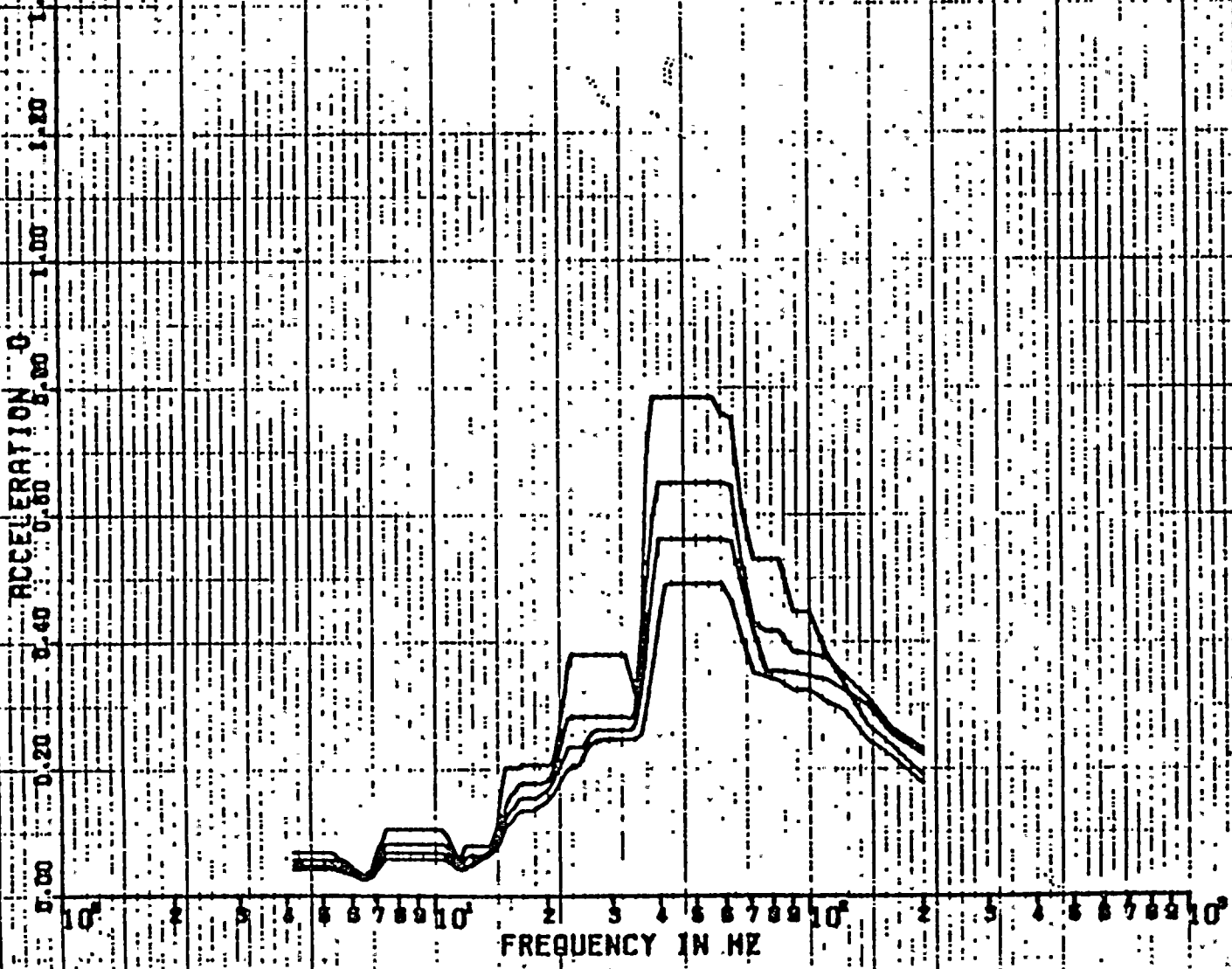
0.020

0.030

0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% 3% & 4%

TEXEX CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 125

P-63

P&SPECTRA VER 01 LEV 08 SRV(ENV.-OF ALL SRV CASES) 22 OCT 1992

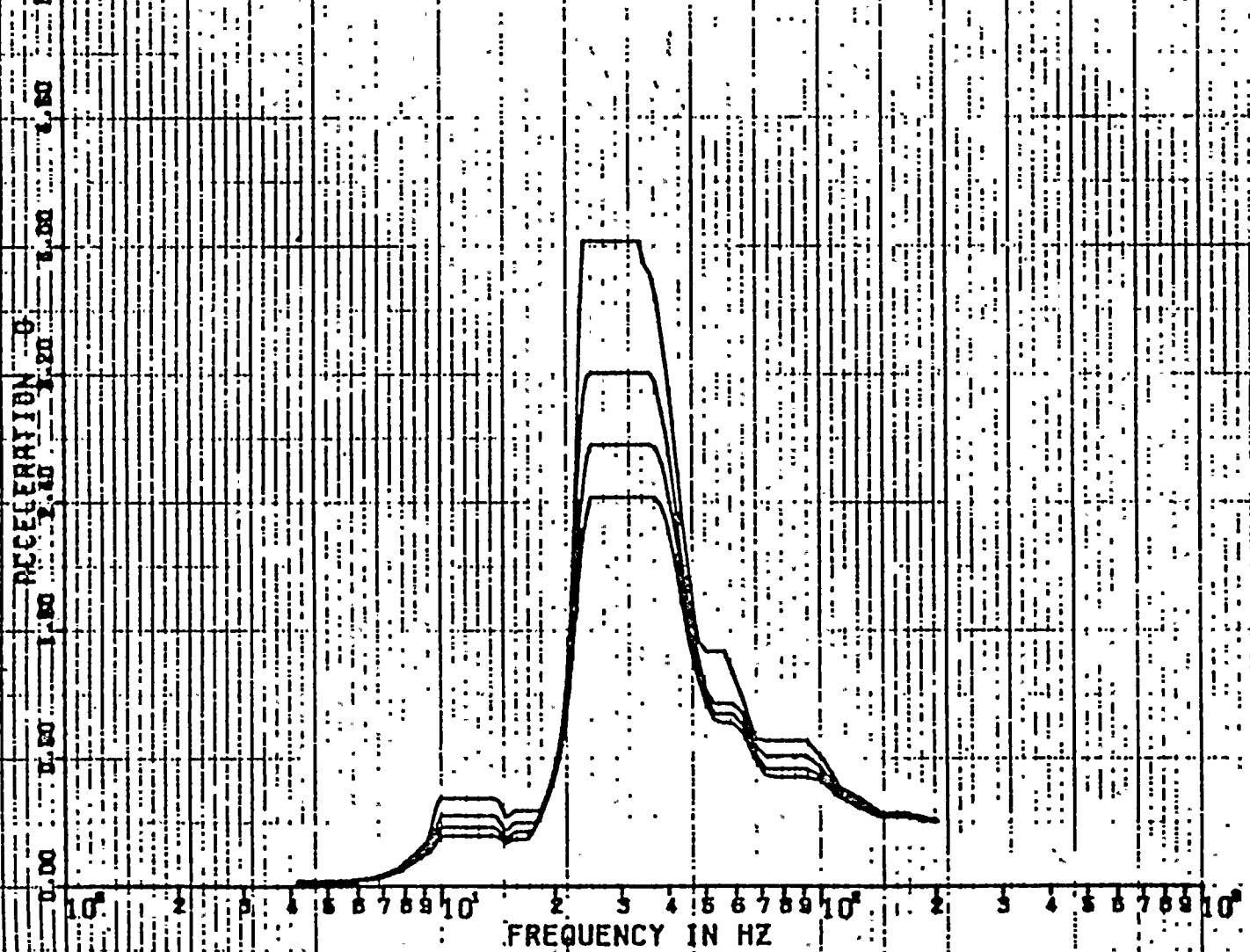
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0

RRS OF ACCELERATION DRYWELL FLOOR (ELEV.238.00 FT)

MICHAEL K CO

DISK CURVE SET NO.26 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.030 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 125

PSPECTRA VER 01 LEV 08 SRVIENV. OF ALL SRV CASES) 22 OCT 1982

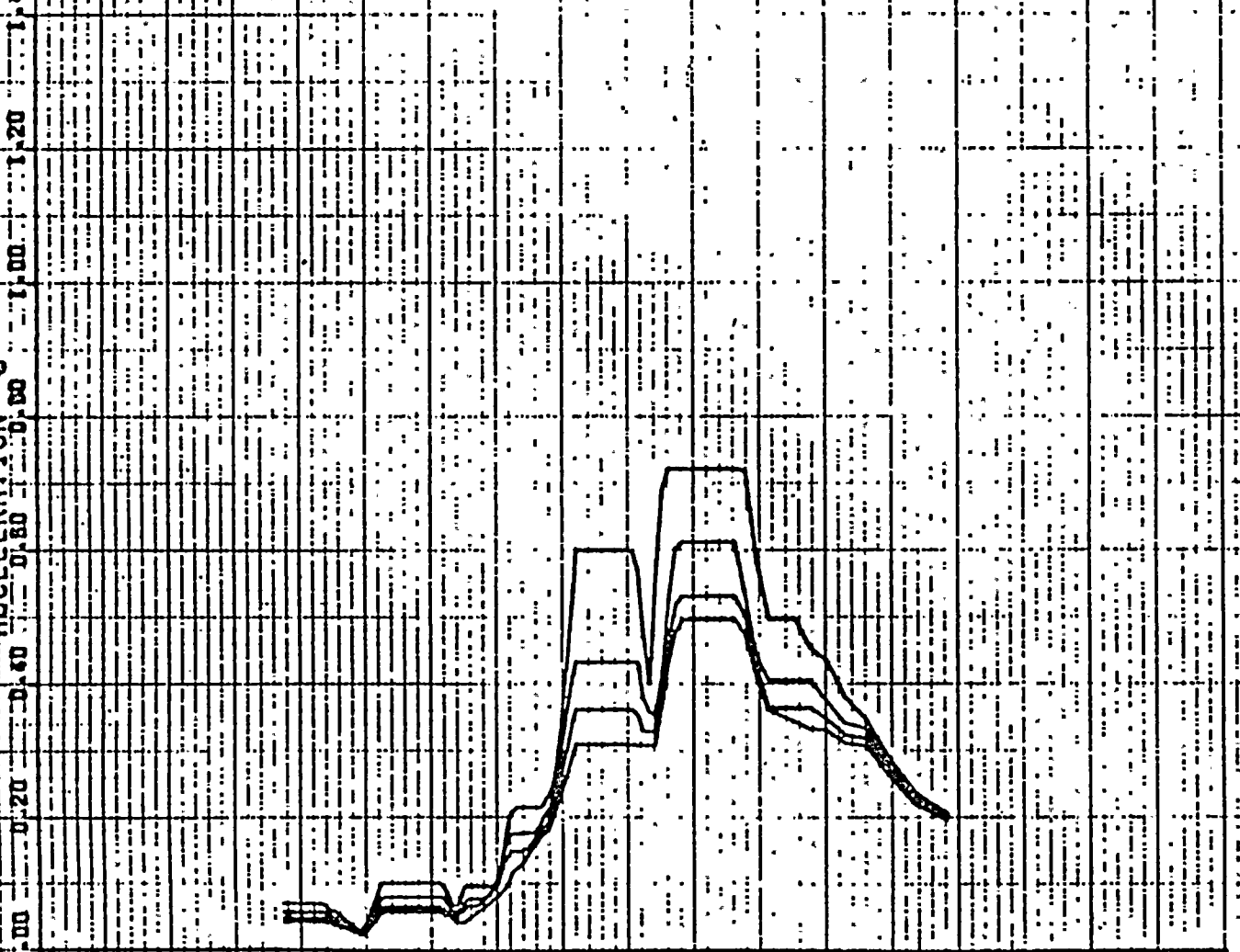
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0

RRS OF ACCELERATION DRYWELL/PEDESTAL (ELEV.258.0 FT)

MICHAEL K SO

DISK CURVE SET 50.27 HOR DIRECTION DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLET OF RRS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPACING OF +18% AND -18%



REF 126

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PSPECTRA VER 01 LEV 03 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

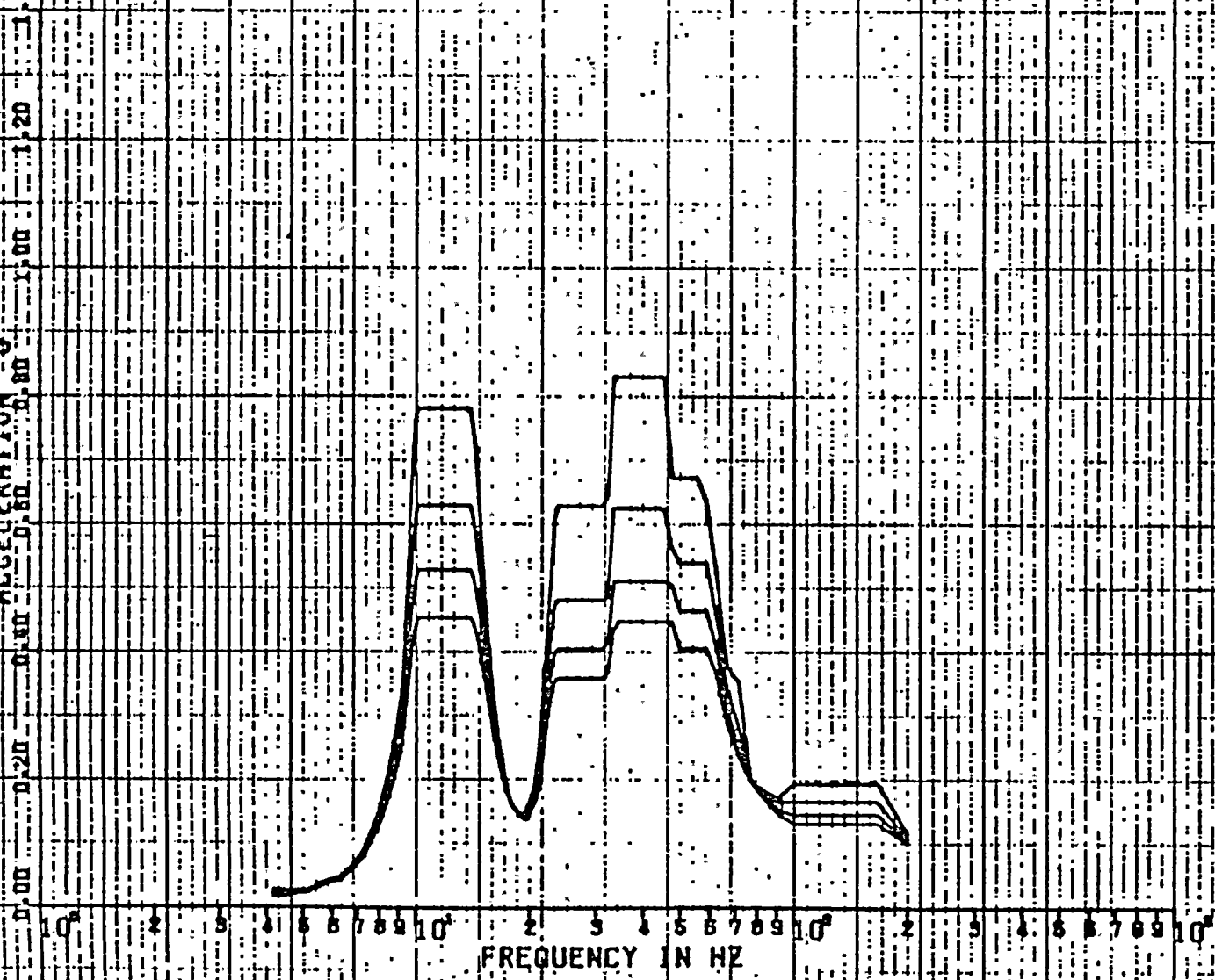
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 RS-1748-8

RRS OF ACCELERATION DRYWELL/PEDESTAL (ELEV 293.0 FT)

MICHAEL K. CO

DISK CURVE SET NO.27 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLY OF RRS CURVES WITH DAMPING 1% 2% 3% & 4%
THREE CURVES REPRESENT A SPREAD OF +10% AND -10%



KEY PLAN

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PSPECTRA VER 01 :LEV 08 SRVIENV.(OF ALL SRV CASES) 22 OCT 1982

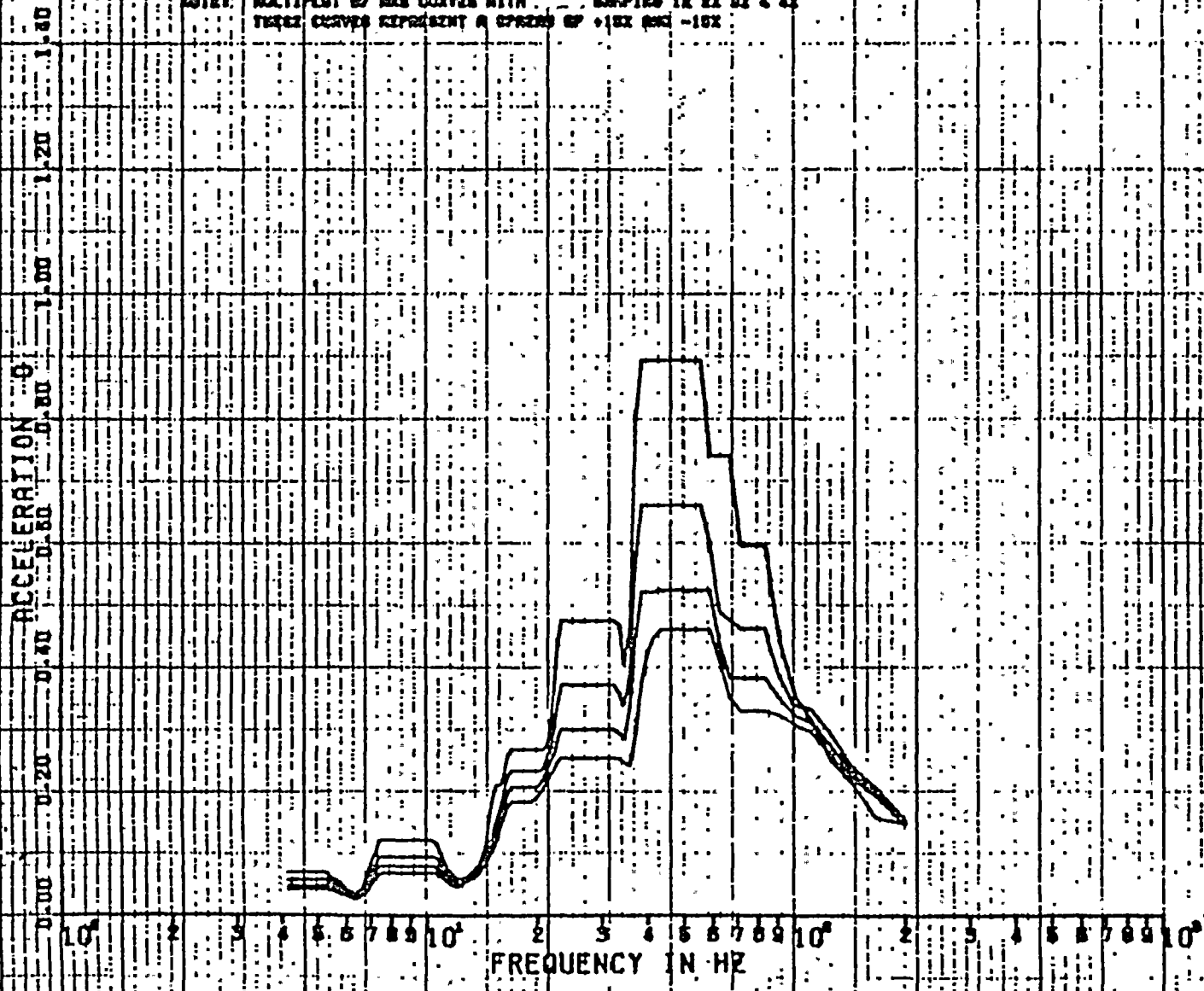
MIRDARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0

RRS OF ACCELERATION PRIMARY CONT. (ELEV.248.33 FT)

MICHAEL K SO

DISK CURVE SET NO.28 HOR DIRECTION DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH SAMPLING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 127

P-67

P&SPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

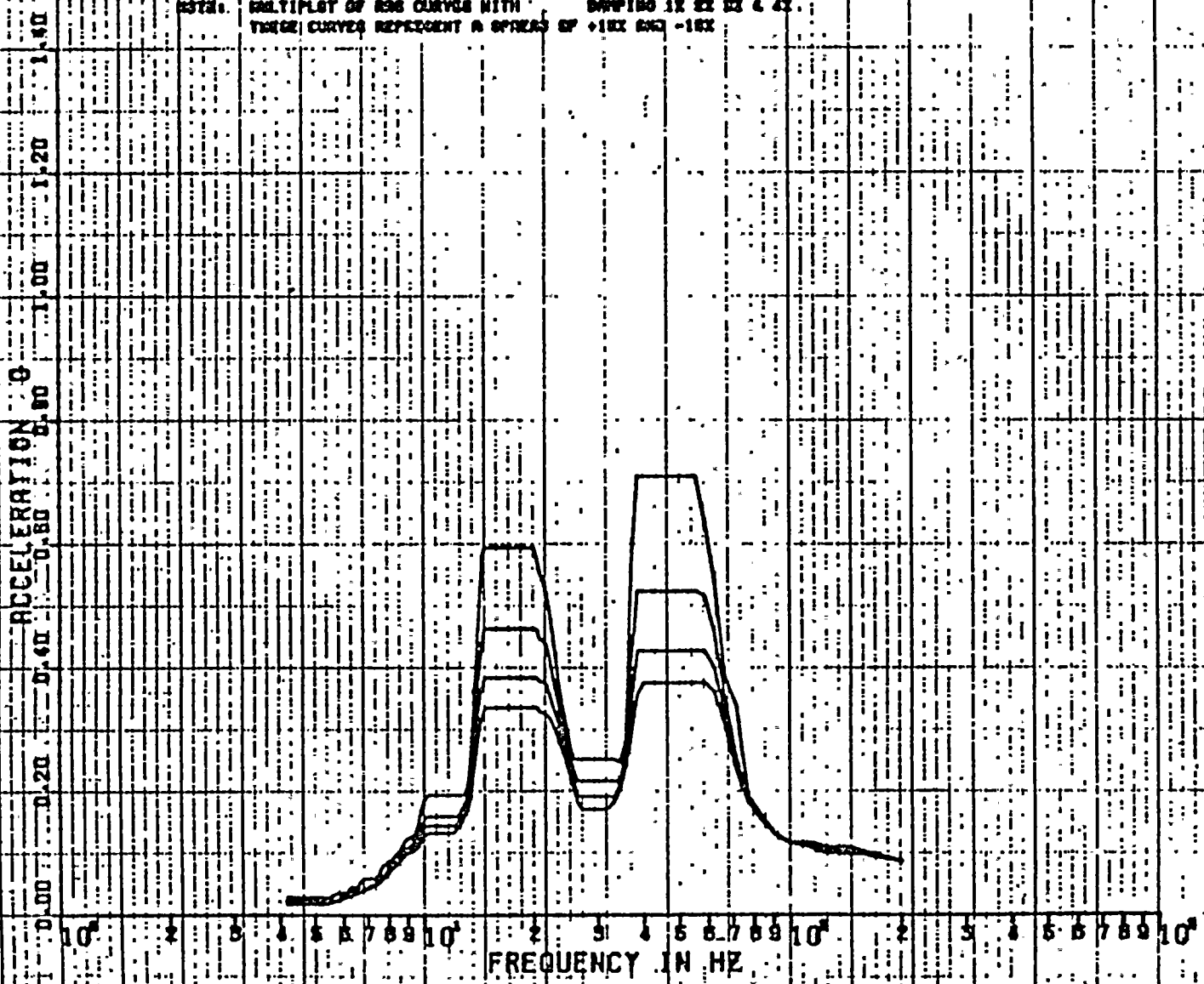
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 HS-1748-0

RMS OF ACCELERATION PRIMARY CONT. (ELEV.243.33 FT)

MICHAEL K SO

DISK CURVE SET NO.28 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.030 0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% 3% & 4%.
THESE CURVES REPRESENT A SPREAD OF +1SX AND -1SX



REF 127

P-68

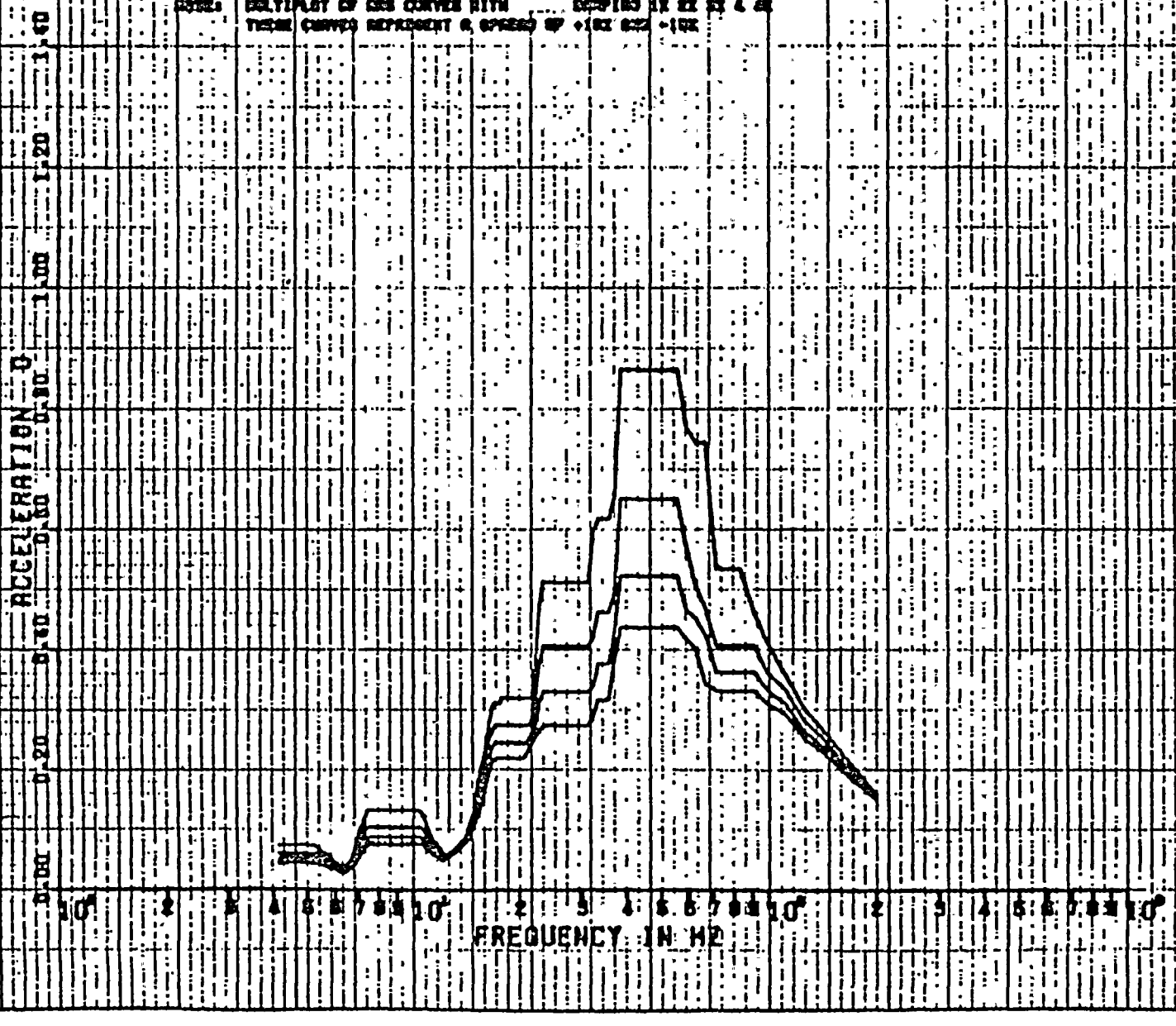
PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

MIRRAMAR MOHAWK -NIKE MILES POINT UNIT-2 J.O.12177 MS-1748-8

RRS OF ACCELERATION PRIMARY CONT. (ELEV. 248.88 FT) MICHAEL K. [illegible]

DISK CURVE SET NO.29 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.030 0.040

NOTES: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% & -10%



REF 128

P-69

PSPECTRA VER 01 LEV.08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

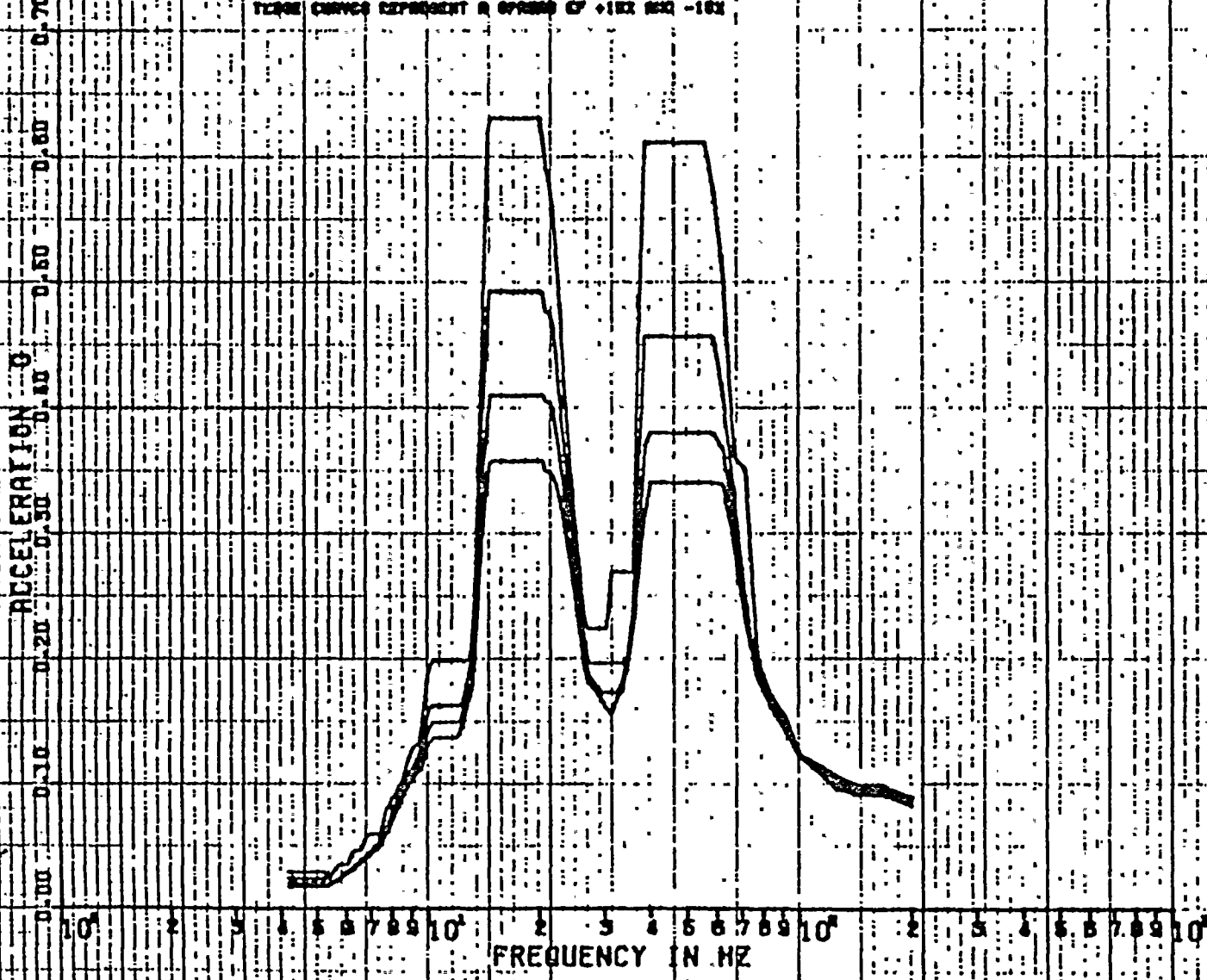
HIROKAN MOHAWK -NINE MILES POINT UNIT-2 J.O.12177 MS-1748-8

RRS OF ACCELERATION PRIMARY CONT. (ELEV. 249.88 FT)

MICHAEL K CO

DISK CURVE SET NO.28 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A BROADEN OF +10% AND -10%



REF 128

P-70

PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

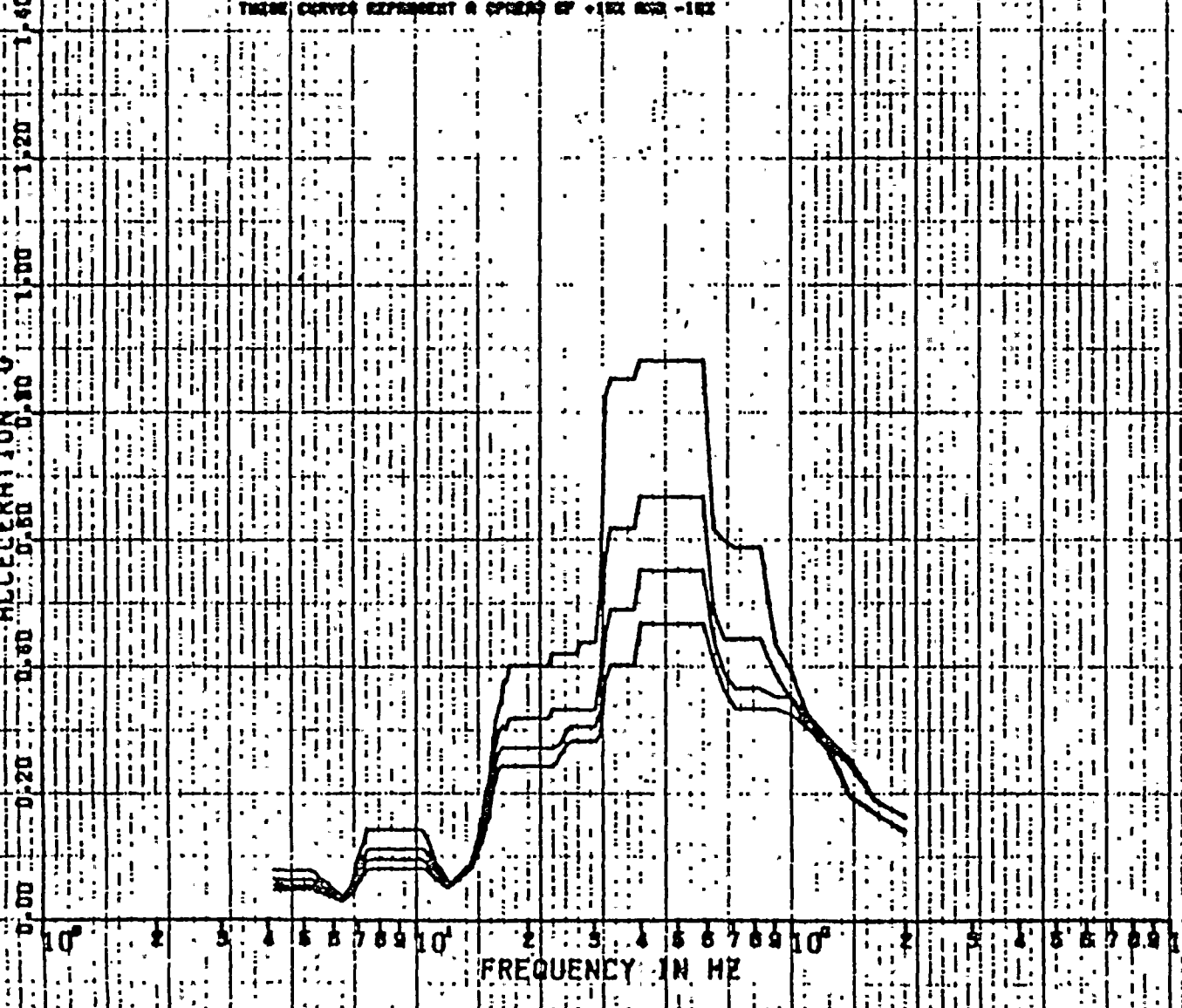
NIAGARA MOHAWK-NINE MILES POINT UNIT -2 J.O.12177 MS-1748-8

RMS OF ACCELERATION : PRIMARY CONT. (ELEV. 254.00 FT)

MICHAEL K. [illegible]

DISK: CURVE SET NO.30 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.030 0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +1SD AND -1SD



REF 129

P-71

PSPECTRA VER 01 LEV 08 SRVIENV. OF ALL SRV CASES) 22 OCT 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT -2 J.O.12177 MS-1740-8

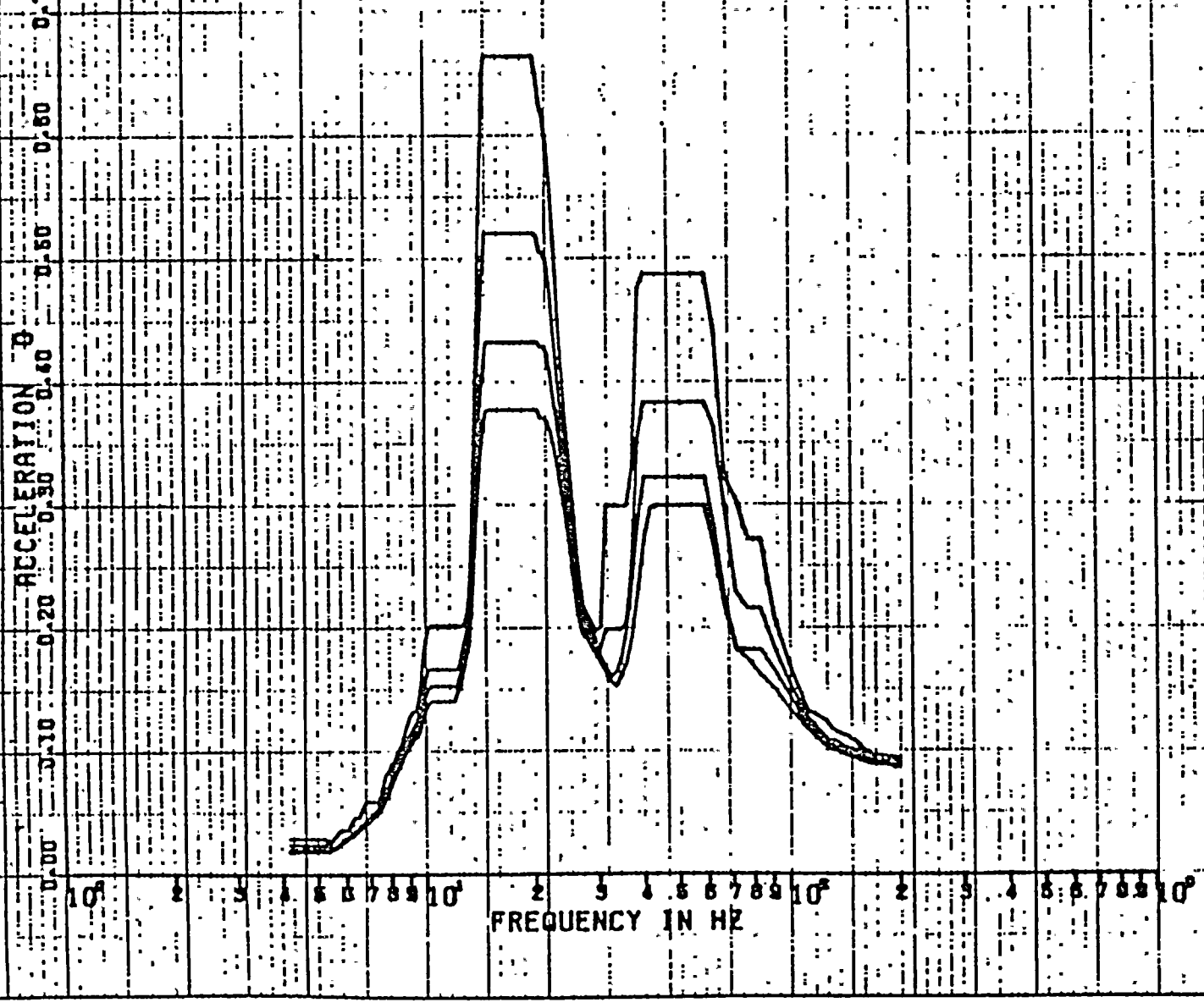
RRS OF ACCELERATION : PRIMARY CONT. (ELEV. 254.00 FT)

MICHAEL K CO.

DISK CURVE SET NO.30 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% 3% & 4%
THICK CURVES REPRESENT @ SPREAD OF +10% OR -10%



REF 129

P-72

PSPECTRA VER 01 LEV 03 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

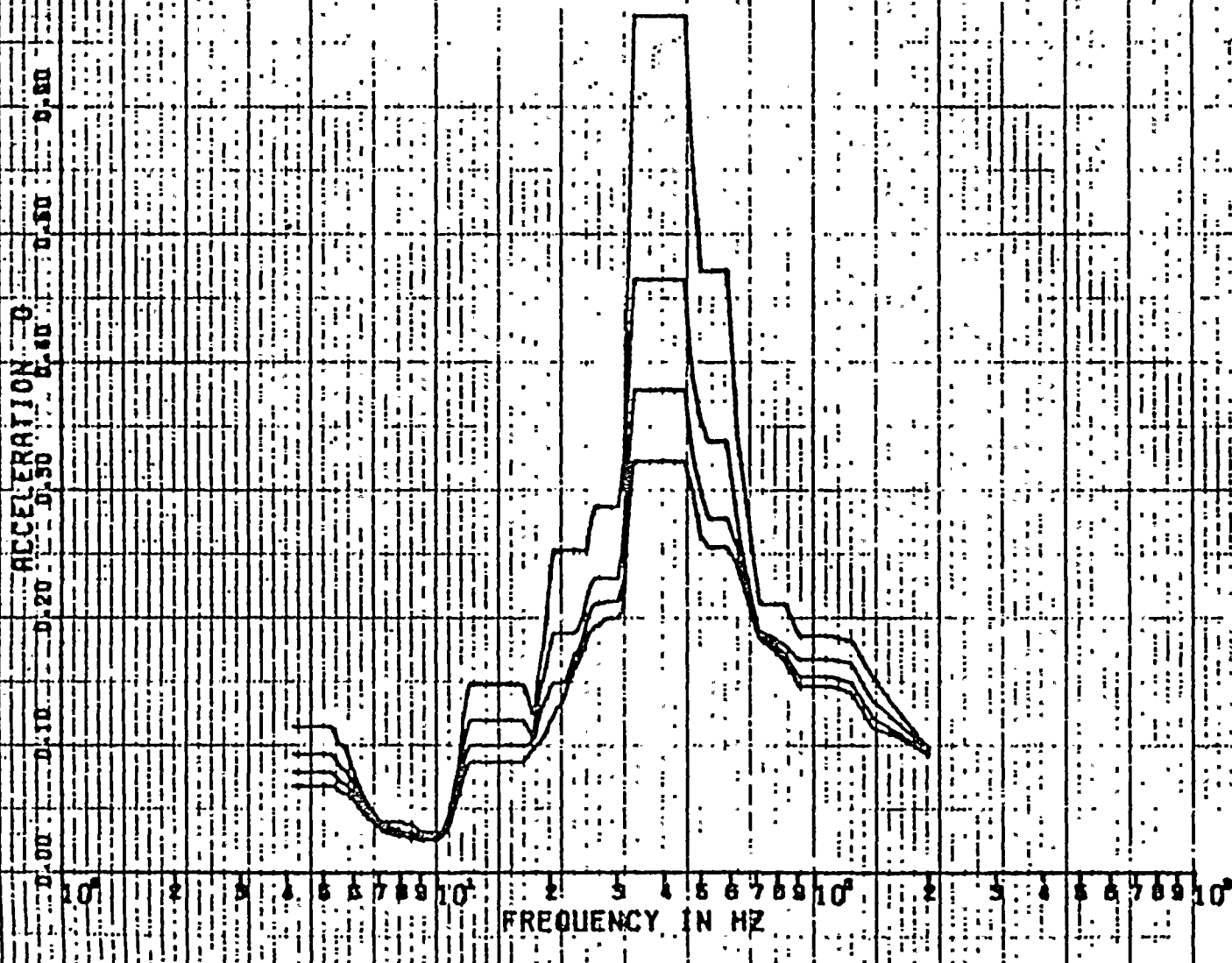
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 NS-1748-0

RMS OF ACCELERATION PEDESTAL (ELEV. 254.0 FT)

MICHAEL MILES

DISK CURVE SET NO.81 HOR DIRECTION DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLIT OF RMS CURVES WITH DAMPING 1% 2% 3% & 4%
TOGGER CURVES REPRESENT A EXPOSED OF +1SX RMS -1SX



REF 130

P-73

PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

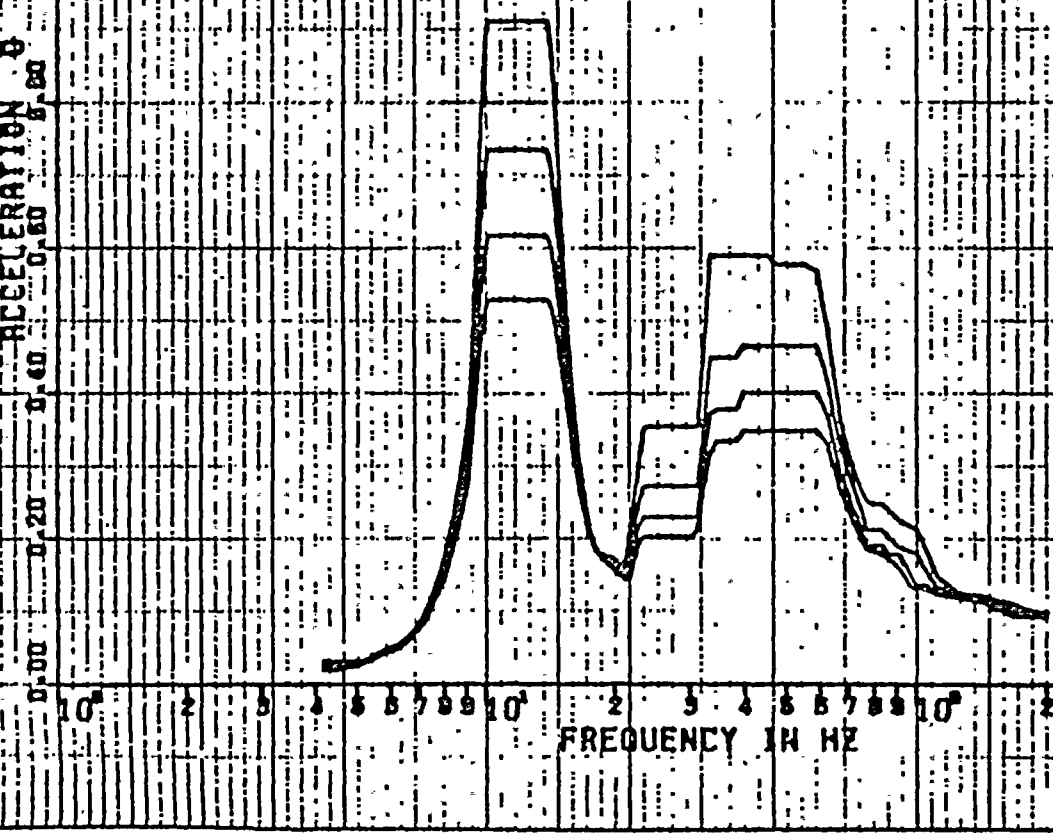
HIROARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 N3-1740-0

RMS OF ACCELERATION PEDESTAL (ELEV. 254.0 FT)

MICHAEL K CO

DISK CURVE SET NO.91 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.030 0.040

NOTES: MULTIPLOT OF SRS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 130

P.74

SPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

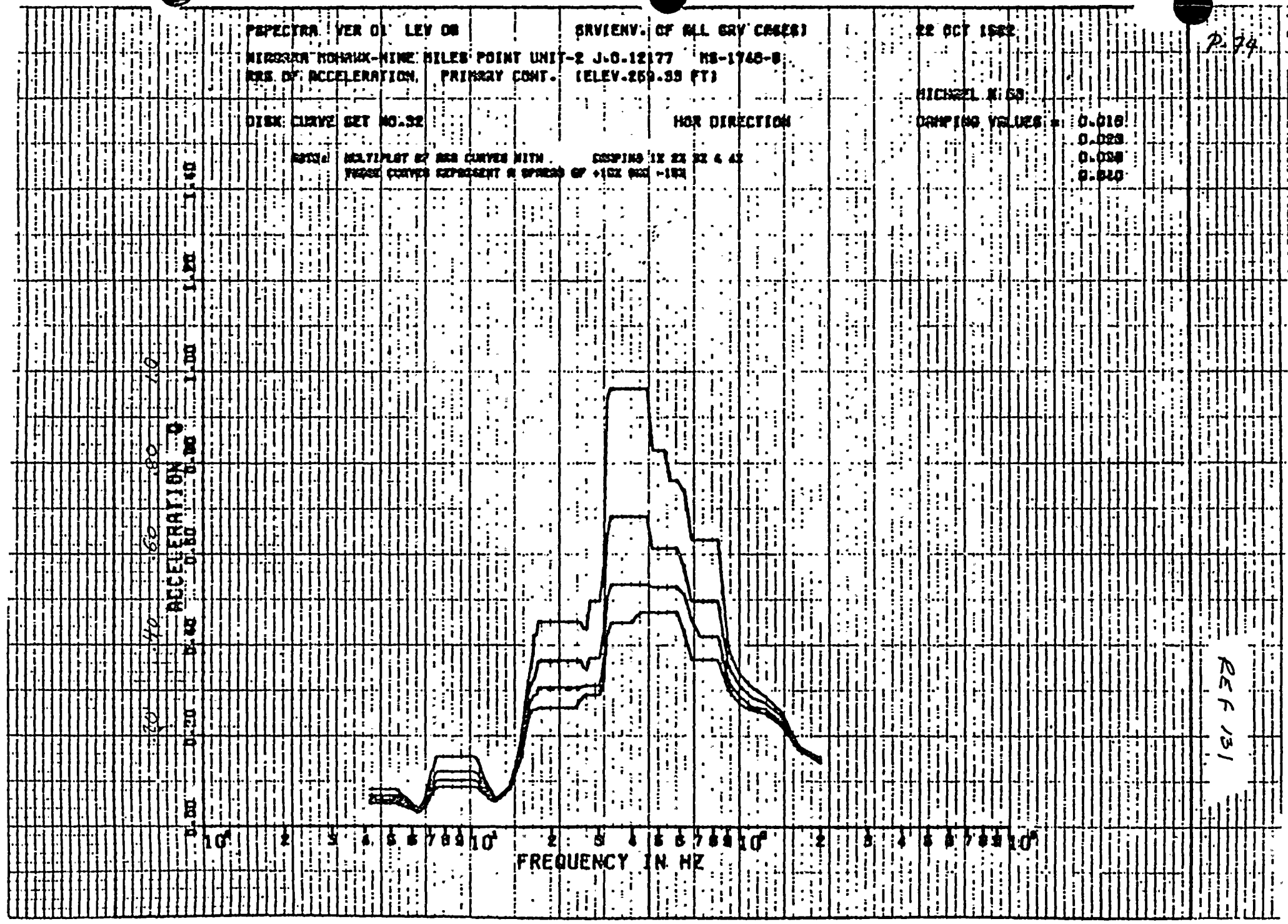
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 NS-1748-8

RRS OF ACCELERATION, PRIMARY CONT. (ELEV.259.33 FT)

MICHAEL N.SS

DISK CURVE SET NO.32 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.030 0.040

RATIO: MULTIPLY BY RRS CURVES WITH DAMPING 1% 2% 3% & 4%
PLOTS CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 131

P-75

PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

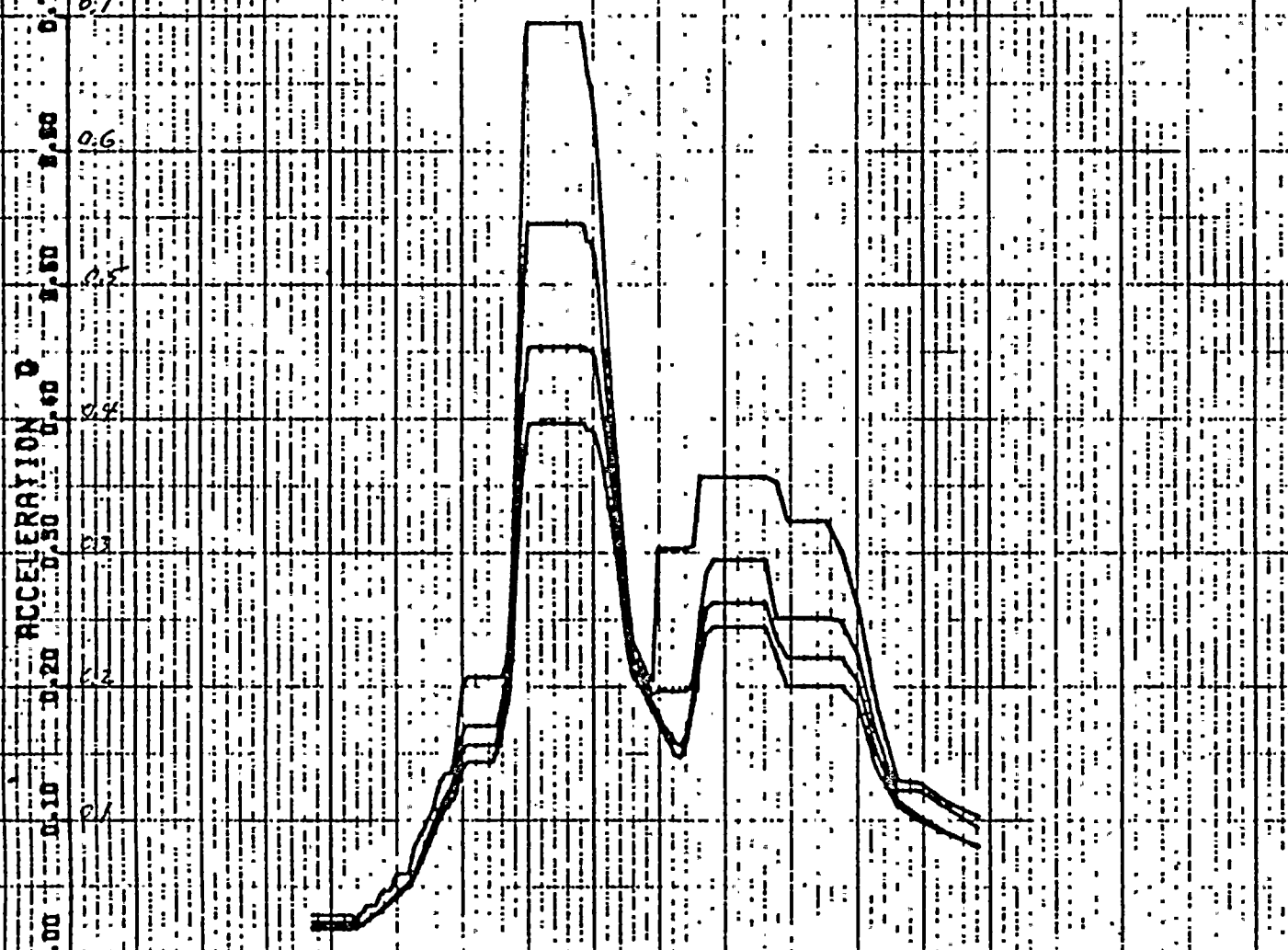
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 RS-1748-8

RRS OF ACCELERATION PRIMARY CONT. (ELEV.250.33 FT)

MICHAEL K. SZ

DISK CURVE SET NO.32 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH .... DAMPING 1% 2% 3% & 4%
THICK CURVES REPRESENT A SPREAD OF +10% AND -10%



REF. 181

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PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

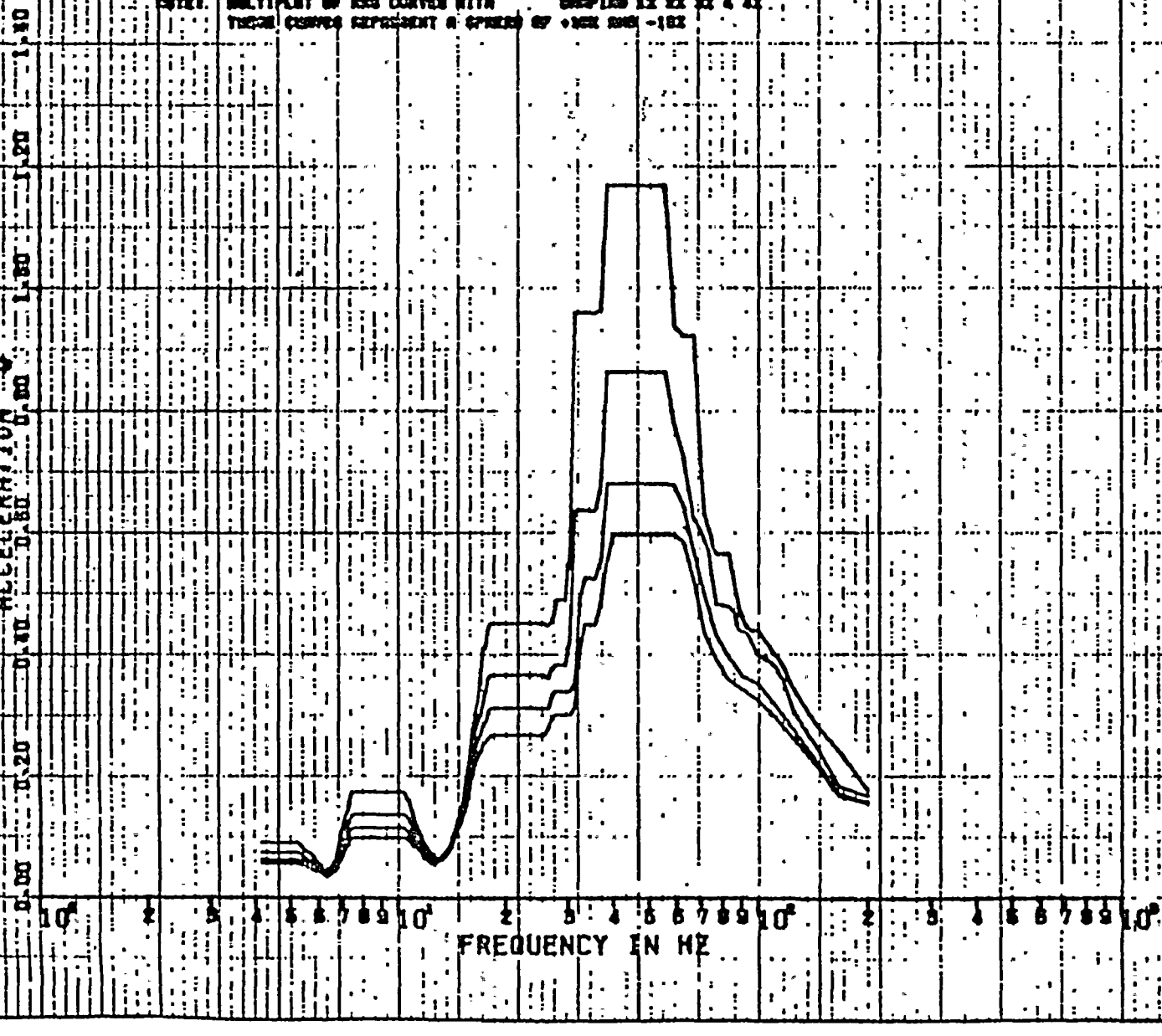
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 NS-1748-8

RRS OF ACCELERATION PRIMARY CONT. (ELEV.270.00 FT)

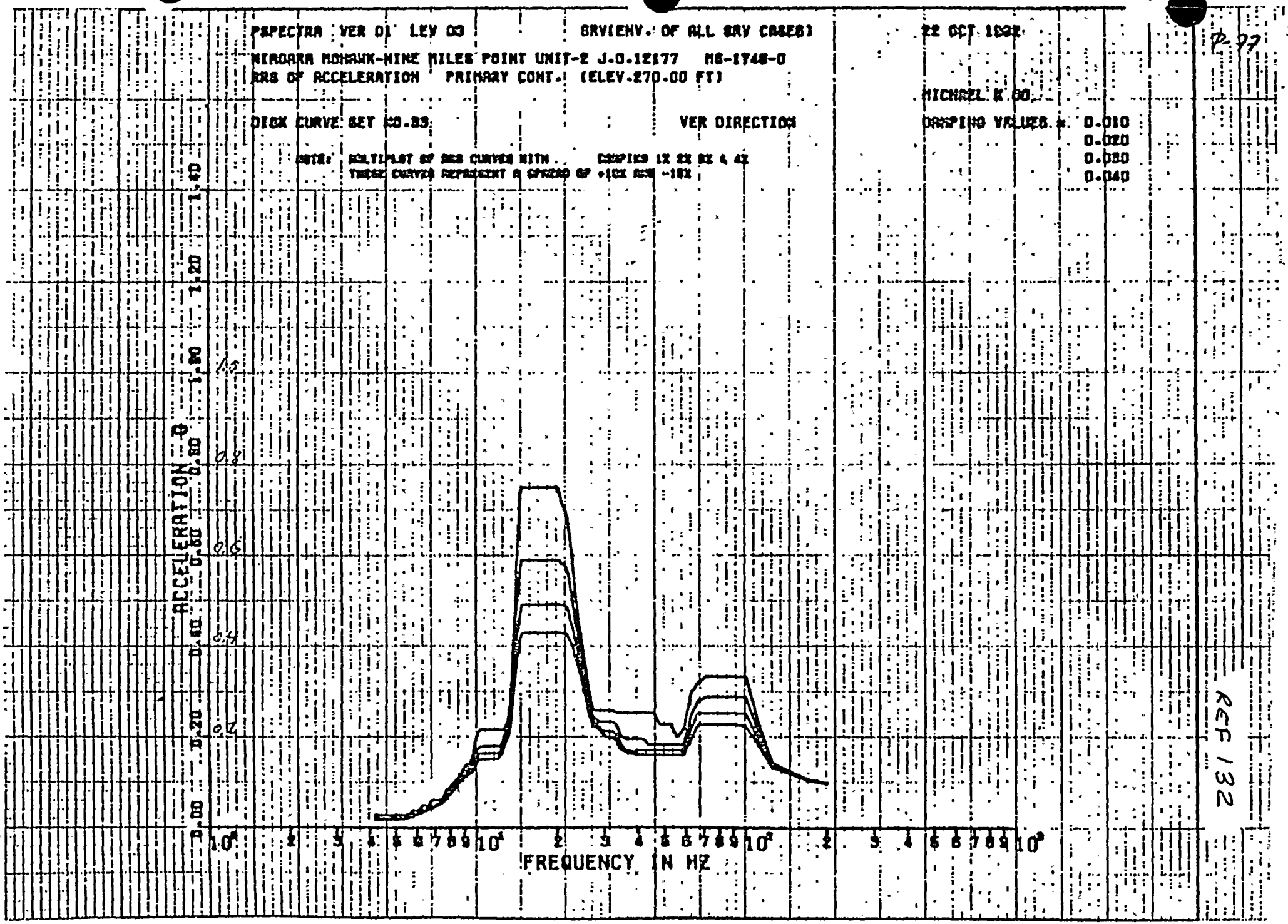
MICHAEL K GO

DISK CURVE SET NO.33 HOR DIRECTION DAMPING VALUES = 0.010, 0.020, 0.030, 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 132


PSPECTRA VER 01 LEV 03
SRV(ENV. OF ALL SRV CASES)
22 OCT 1982
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0
RRS OF ACCELERATION PRIMARY CONT. (ELEV.270.00 FT)
MICHAEL K.OO.
DICK CURVE SET 20.33
VER DIRECTION
DAMPING VALUES = 0.010
0.020
0.030
0.040
NOTE: MULTIPLY OF RRS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%
ACCELERATION G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
0.2
0.4
0.6
0.8
1.0
FREQUENCY IN HZ
REF 132

PSPECTRA VER 01 LEV 03 SRV(ENV.(OF ALL SRV CASES) 22 OCT 1982

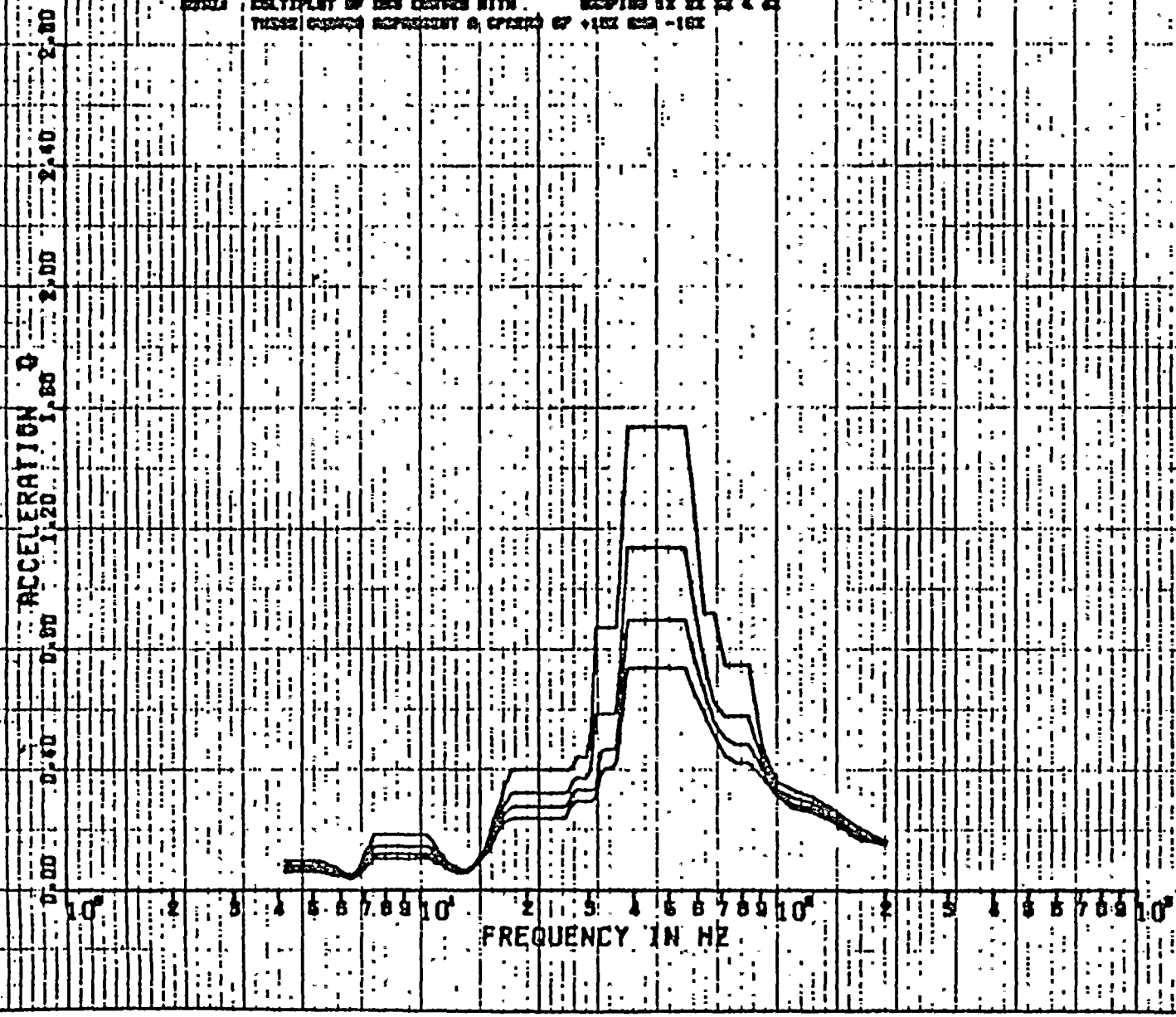
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 NS-1748-8

ERS OF ACCELERATION PRIMARY CONT. (ELEV.276.33 FT)

MICHAEL K. GO

DISK CURVE SET NO.24 HOR DIRECTION DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLIER OF ERS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



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REF 133

PEPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

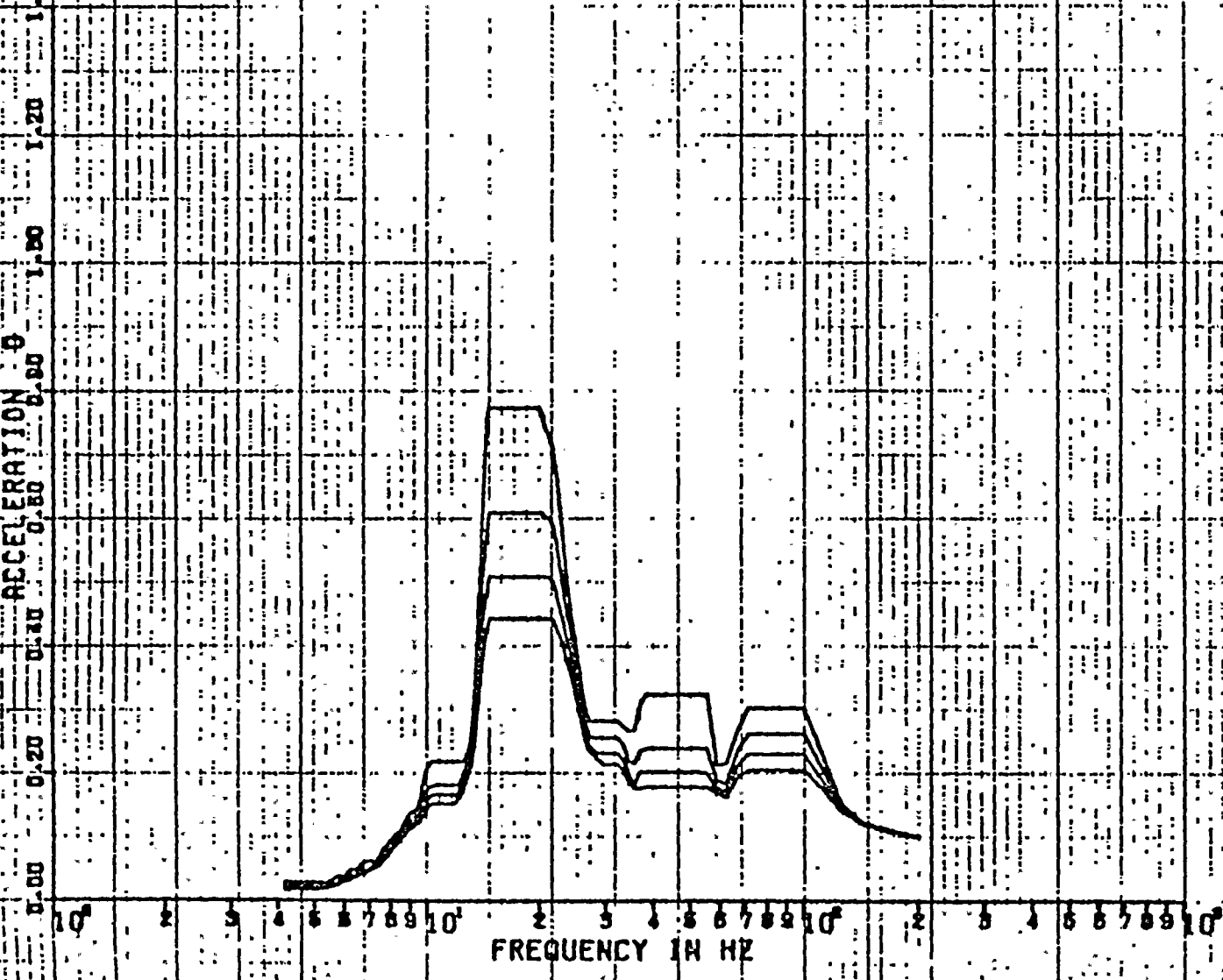
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 NS-1748-8

SRS OF ACCELERATION PRIMARY CONT. (ELEV.275.33 FT)

MICHAEL K.CO

DIBX CURVE SET NO.84 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLIER BY SRS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPACING OF +10% AND -10%



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REF 133

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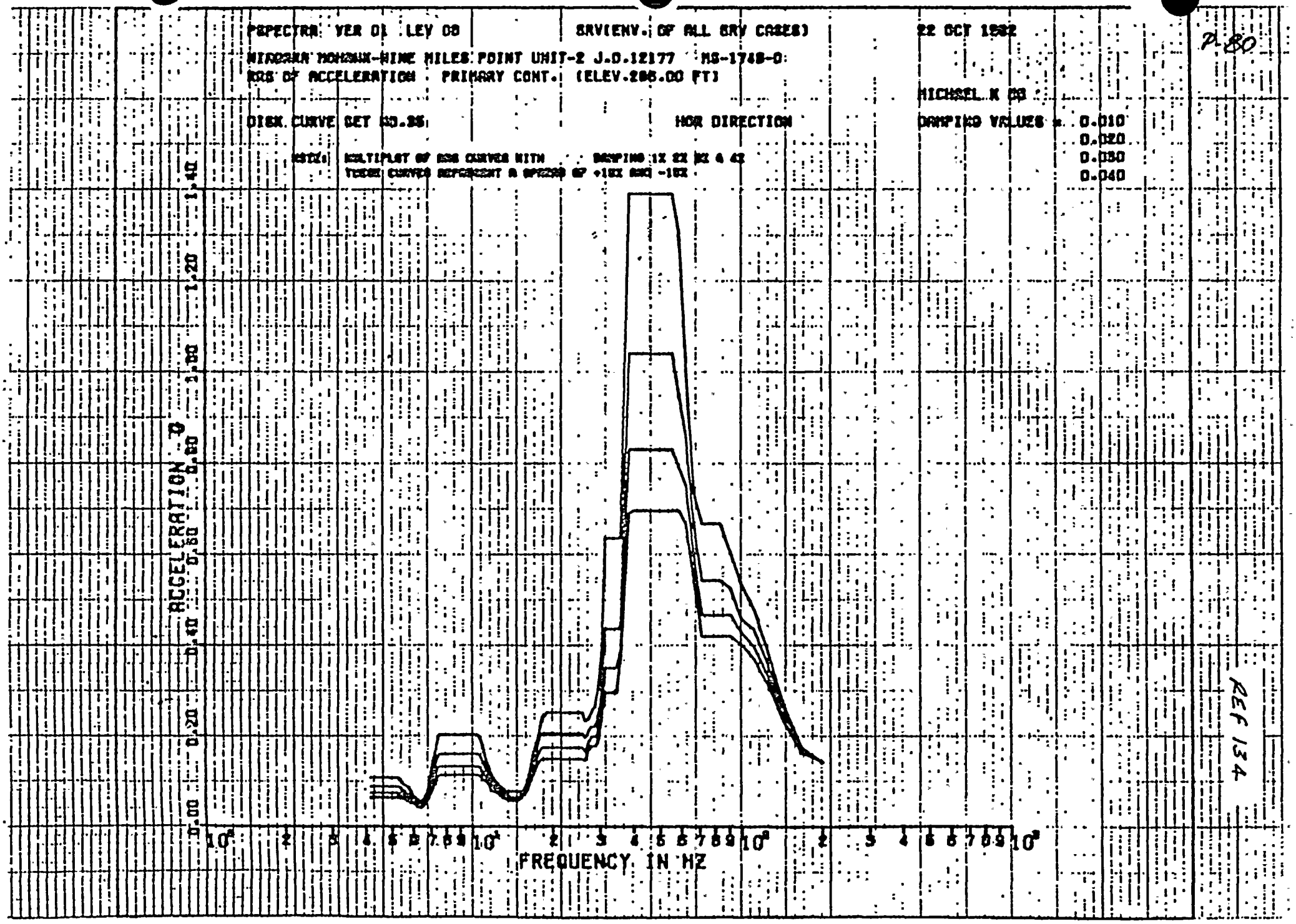

P&SPECTRA VER 01 LEV 08
SRV(ENV. OF ALL SRV CASES)
22 OCT 1982
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0
RGS OF ACCELERATION PRIMARY CONT. (ELEV.286.00 FT)
MICHAEL K 08
DISK CURVE SET 03.35
HOR DIRECTION
DAMPING VALUES = 0.010
0.020
0.030
0.040
NOTE: MULTIPLY OF RGS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%
ACCELERATION G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
FREQUENCY IN HZ
REF 134

P-81

SPECTRA VER 01 LEV 00 SRV(ENV. OF ALL SRV CASES) 22 OCT 1992

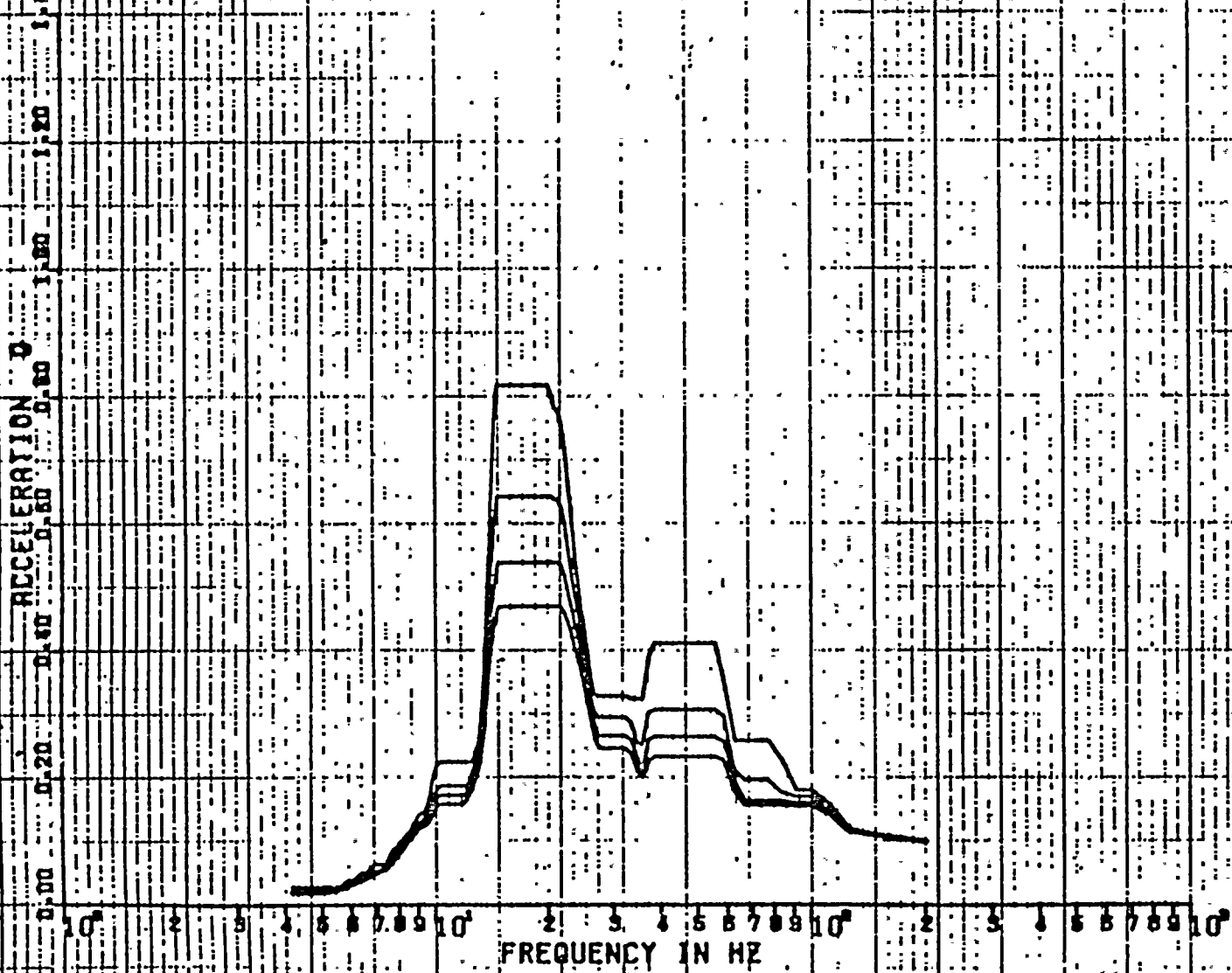
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 NS-1748-8

RRS OF ACCELERATION PRIMARY CONT. (ELEV.288.00 FT)

MICHAEL K CO

DISK CURVE SET NO.25 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.030 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% 3% & 4%
THREE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 134

P-88

PSPECTRA VER 01 LEV 08 : SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

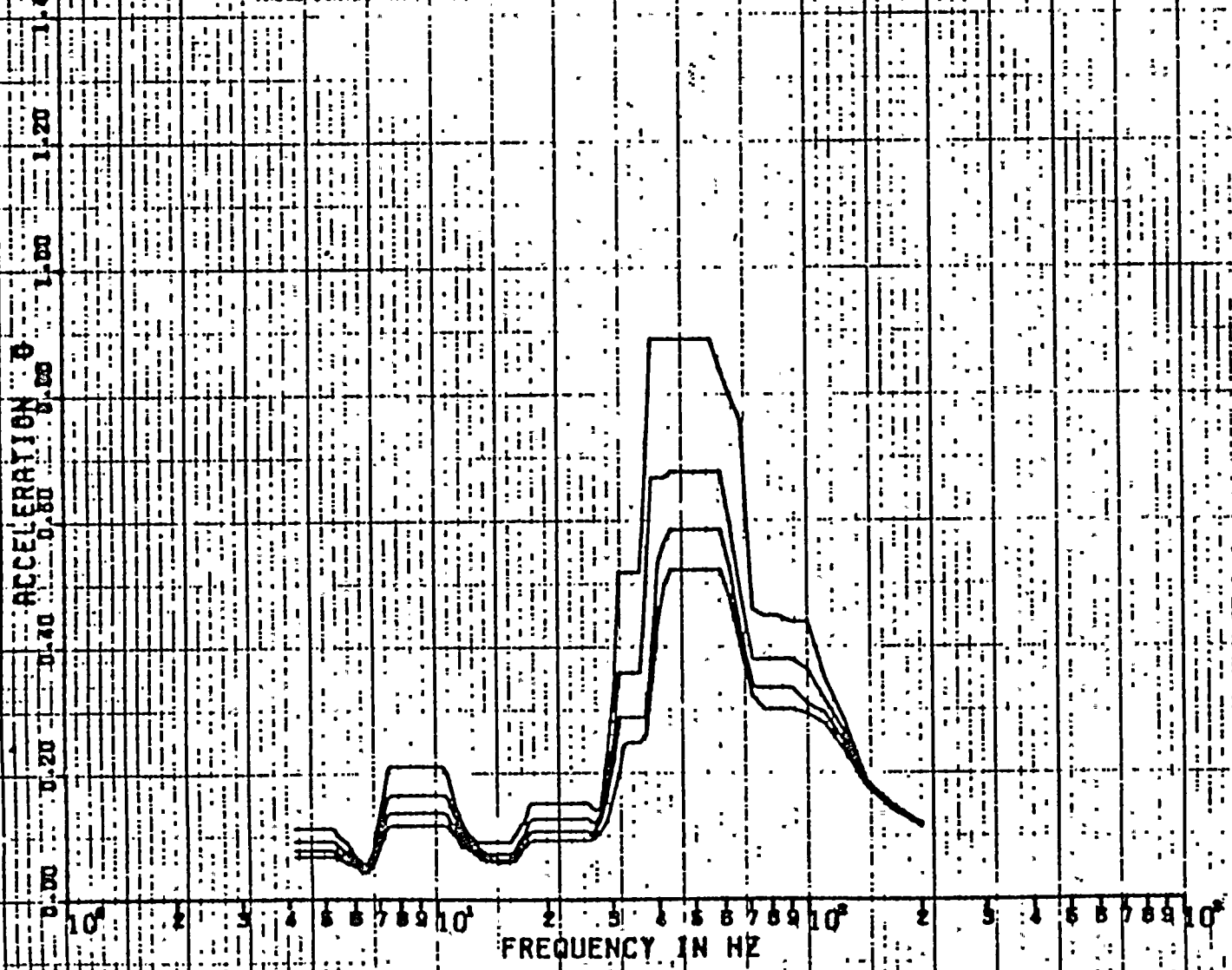
MIRORRA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 NS-1740-8

RRS OF ACCELERATION : PRIMARY CONT. (ELEV. 291.33 FT)

MICHAEL K. [illegible]

DISK CURVE SET NO.36 HOR DIRECTION DAMPING VALUES : 0.010
0.020
0.030
0.040

NOTE: MULTIPLY BY RRS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



Ref 135

P-83

SPECTRA VER 01 LEV.08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

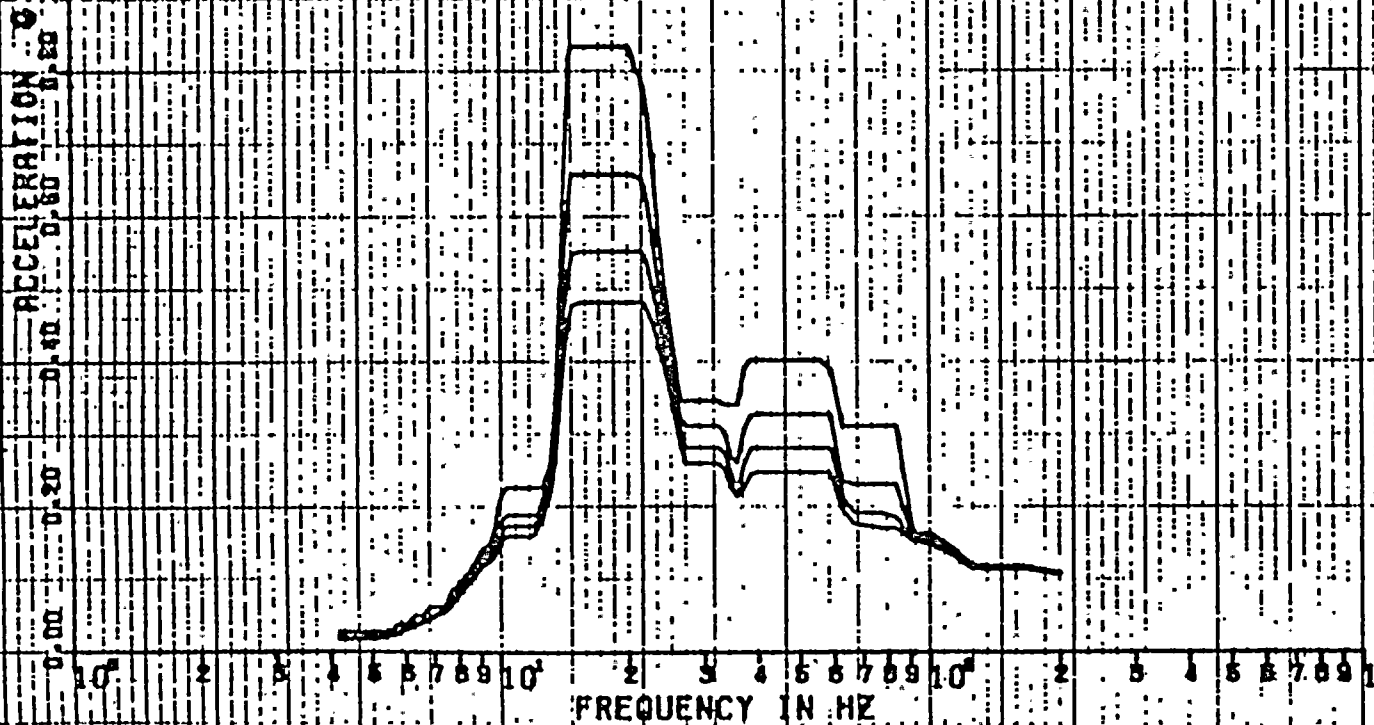
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 NS-1748-8

SRS OF ACCELERATION PRIMARY CONT. (ELEV. 291.33 FT)

MICHAEL K. GO

DISK CURVE SET NO.36 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.030 0.040

COMM: MULTIPLOT OF SRS CURVES WITH COMPUTED IN SET NO 4 & 42
THESE CURVES REPRESENT A SPREAD OF +1SD CASE -1SD



REF 135

SPECTRA VER 01 LEV 08. SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

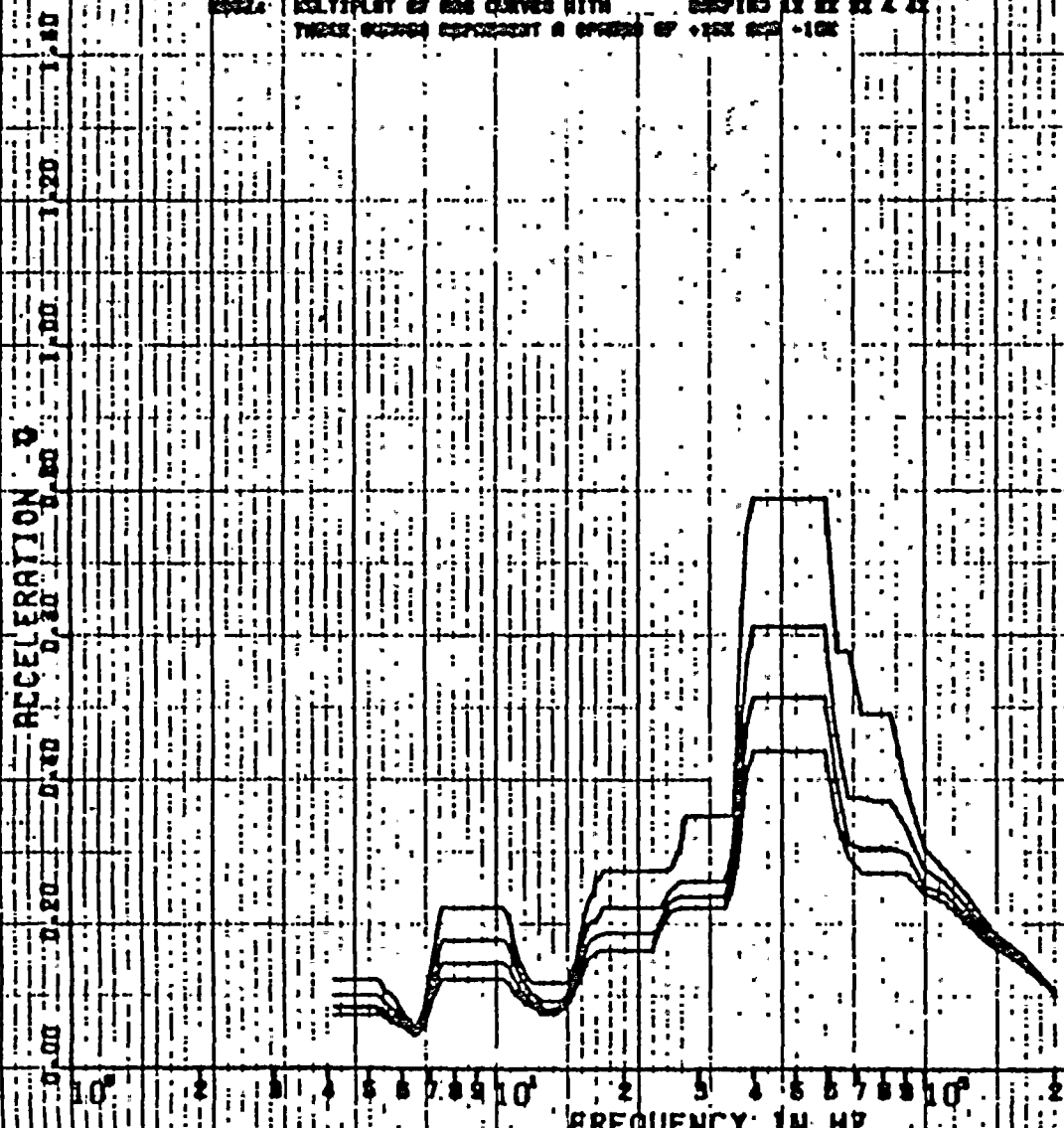
NIAGARA MOHAWK-NINE MILES POINT UNIT2 J.O.12177 NS-1748-0

RRS OF ACCELERATION PRIMARY CONT. (ELEV 332.8 FT)

MICHAEL K.OO

DISK CURVE SET NO.37 HOR DIRECTION DAMPING VALUES = 0.010, 0.020, 0.030, 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1X 2X 3X & 4X
THESE RUNS REPRESENT A SPREAD OF +15% AND -10%



REF 136

P-85

SPECTRA , VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

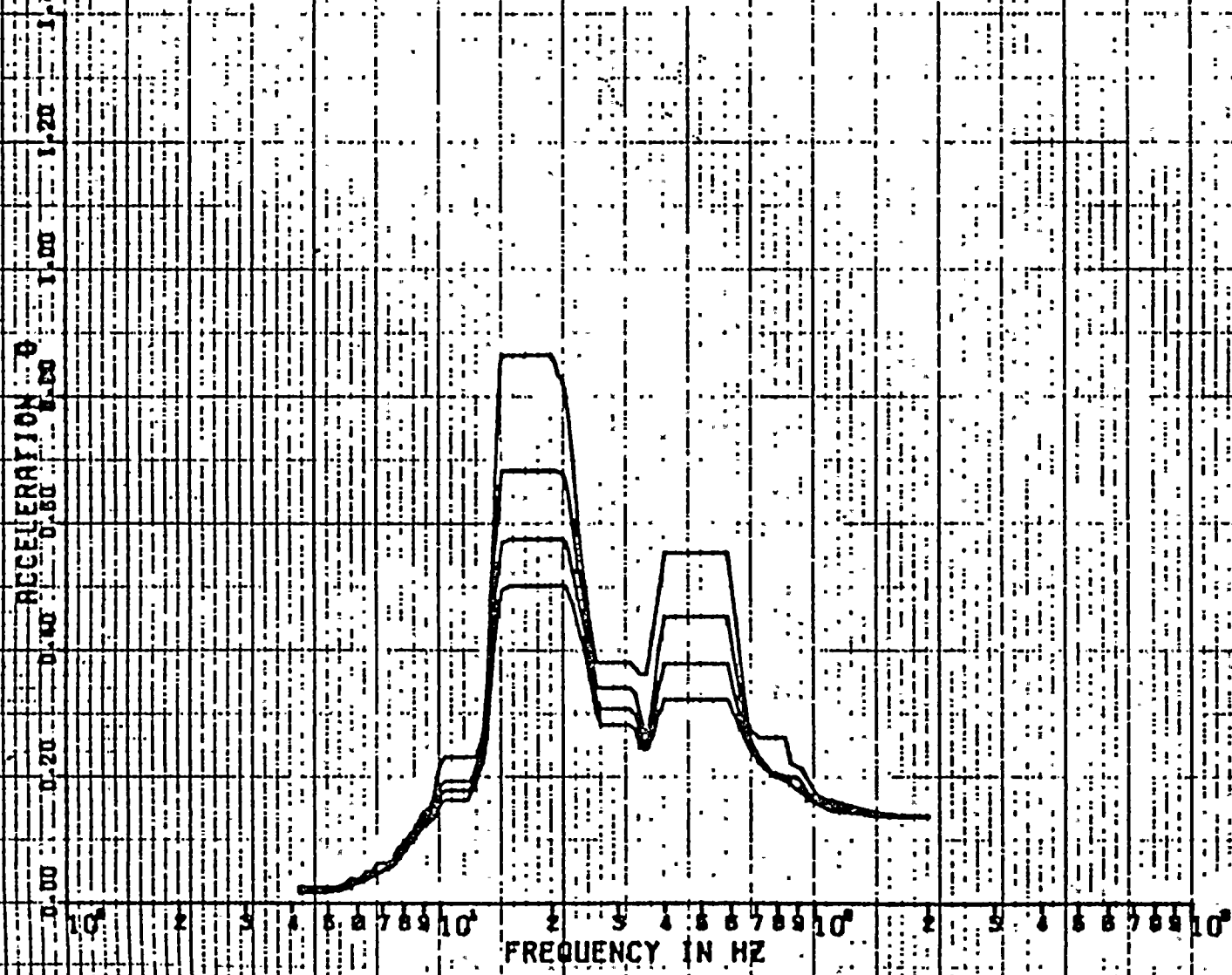
MIRORRA MOHAWK-NINE MILES POINT UNIT2 J.O.12177 MS-1749-0

RMS OF ACCELERATION PRIMARY CONT. (ELEV 302.0 FT)

MICHAEL K CO

DISK CURVE SET NO.37 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 136

RSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT

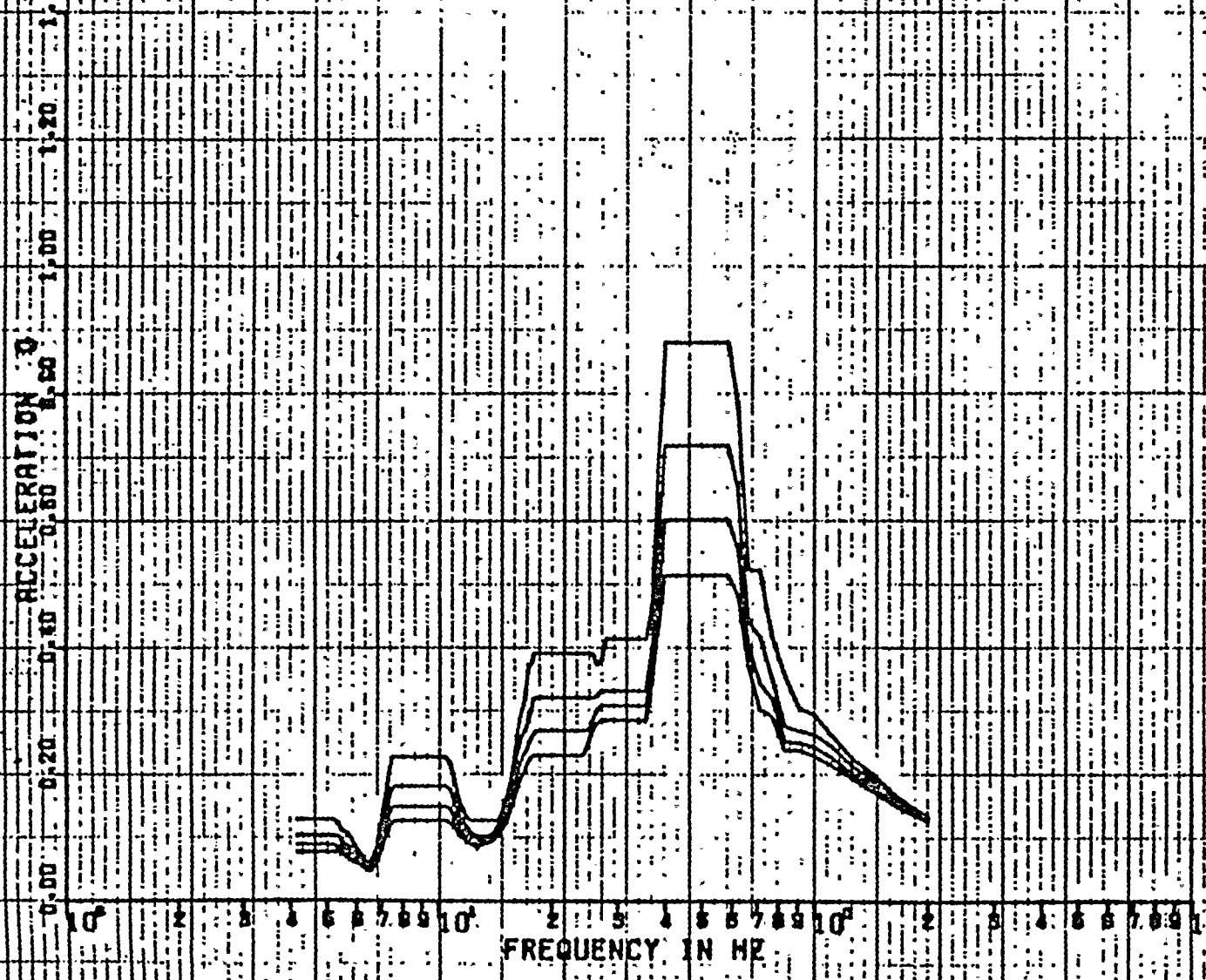
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 1748-8

RRS OF ACCELERATION | PRIMARY CONT. (ELEV. 308.33 FT)

MICHAEL K.

DISK CURVE SET NO.38 HCR DIRECTION DAMPING VALUES = 0.010 0.020 0.030 0.040

NOTE: MULTIPLIT OF SRS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 137

PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

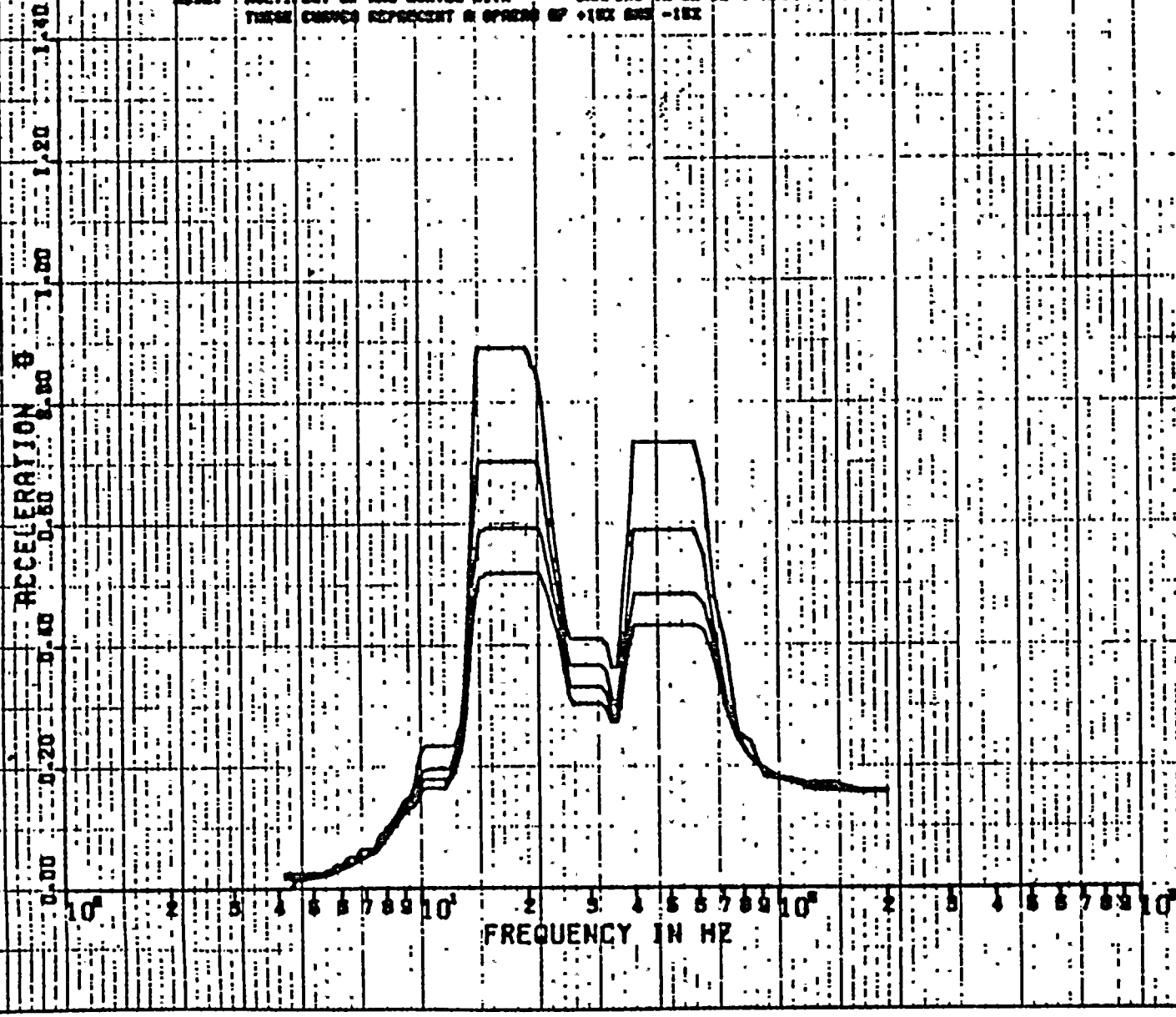
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 HS-1748-8

RMS OF ACCELERATION . PRIMARY CONT. (ELEV. 306.36 FT)

MICHAEL K. SO

DIEX CURVE SET NO.23 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLIT OF RMS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +1SX RMS -1SX



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PSPECTRA VER 01 LEV 08 SRVIENV. OF ALL SRV CASES) 22 OCT 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 .RS-1743-0

CRS OF ACCELERATION PRIMARY CONT. (ELEV. 315.25 FT)

MICHAEL N 03

DIEK CURVE SET NO.39 HOR DIRECTION DAMPING VALUES: 0.010

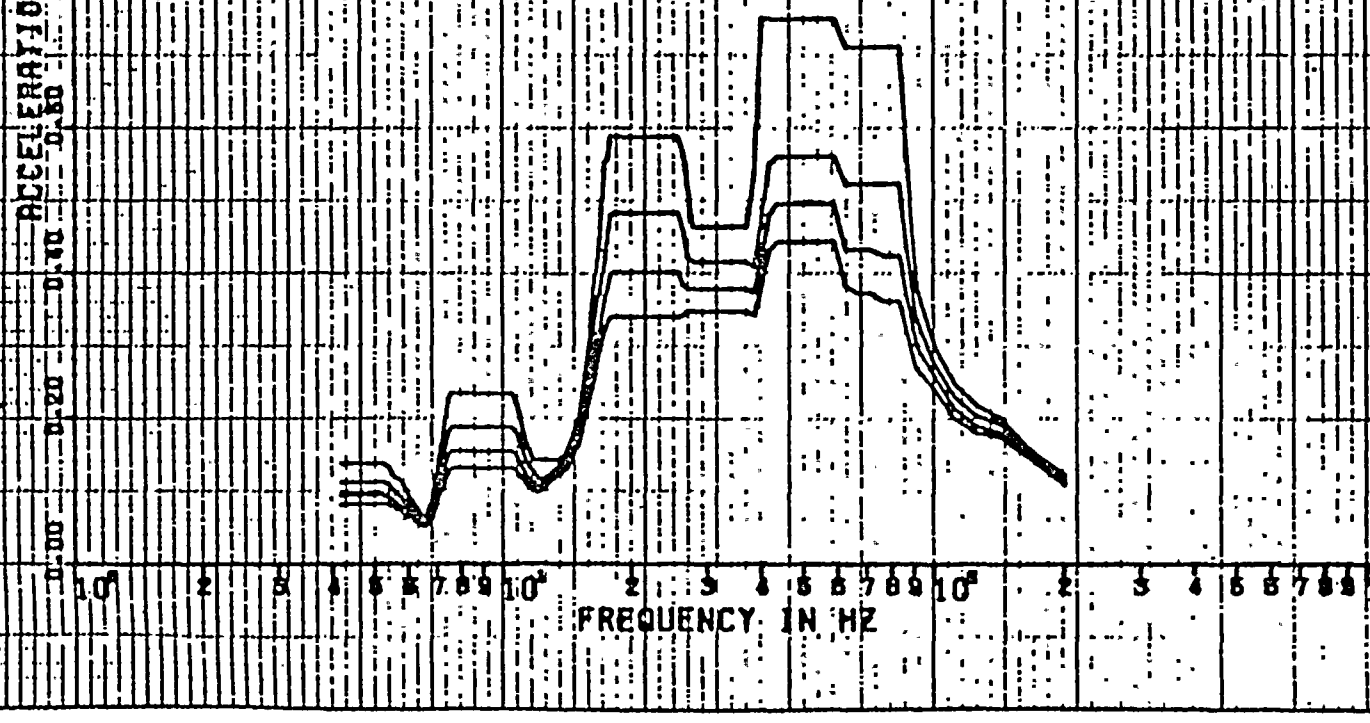
0.020

0.030

0.040

NOTE: MULTIPLY BY RZS CURVES WITH DAMPING 1% 2% 3% & 4%

THESE CURVES REPRESENT A SPREAD OF +18% AND -18%



REF 138

PSPECTRA VER 01 LEV 08 SRVIENV.- [illegible] ALL ERV CASES) 22 OCT 1982

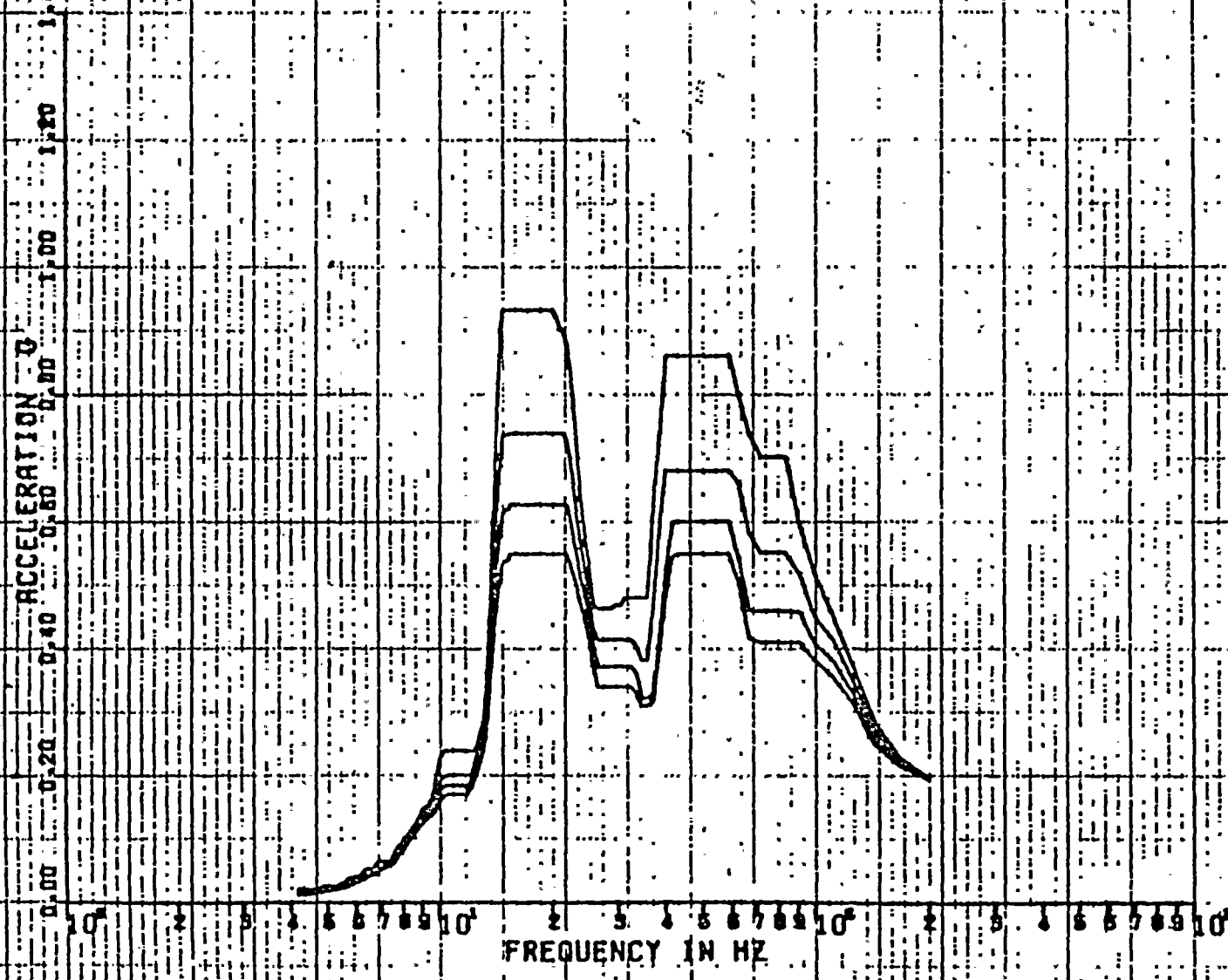
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 NO-1748-0

RRS OF ACCELERATION PRIMARY CONT. (ELEV. 315.25 FT)

MICHAEL K. [illegible]

DISK CURVE SET NO.39 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.029 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% 3% & 4%
THICK CURVES REPRESENT A SPREAD OF +18% AND -18%



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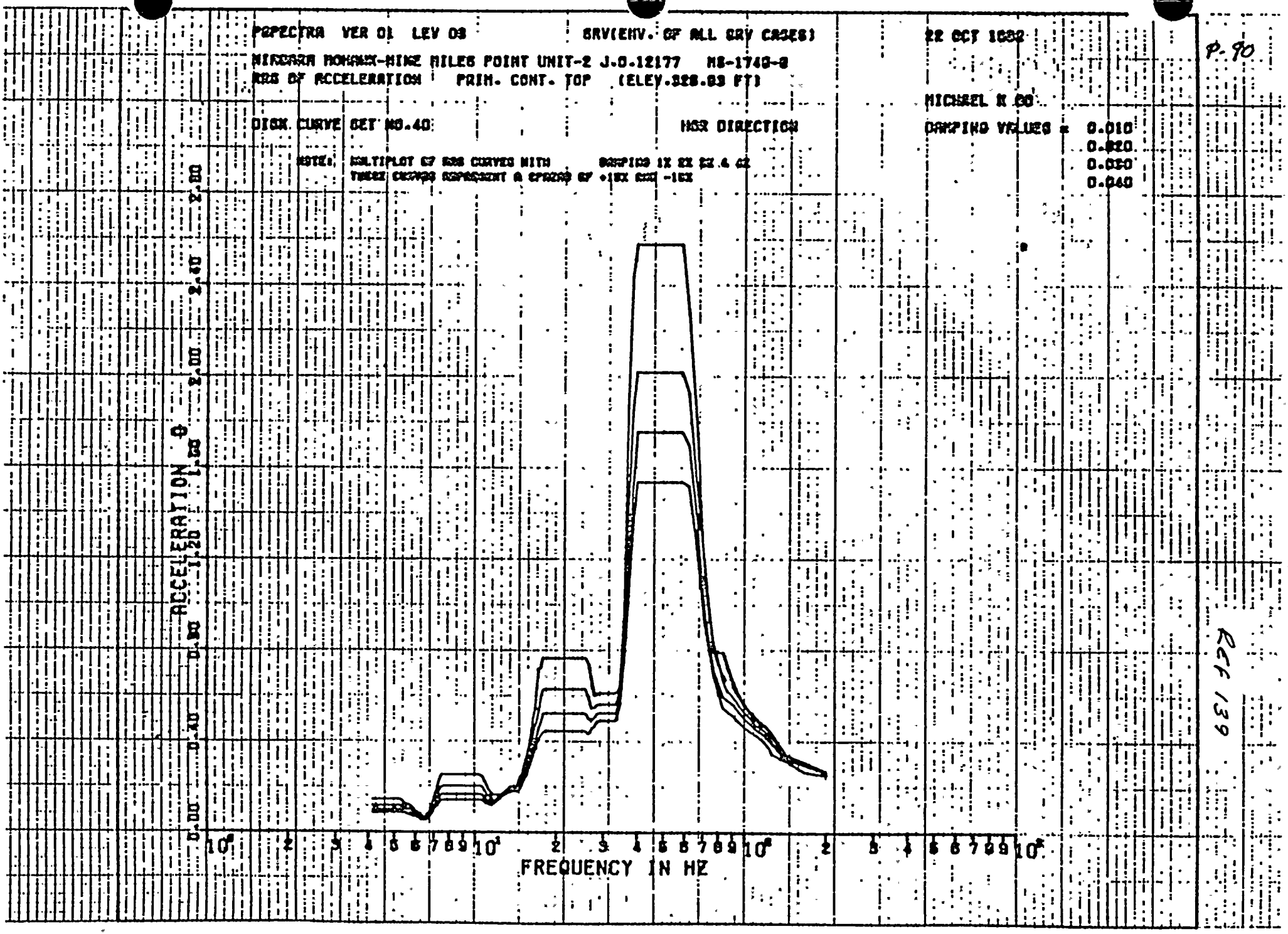
REF 138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PSPECTRA VER 01 LEV 03
ENV(ENV. OF ALL ENV CASES)
22 OCT 1992
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 NS-1740-8
RMS OF ACCELERATION PRIM. CONT. TOP (ELEV.328.83 FT)
MICHAEL K CO
DISK CURVE SET NO.40
HOR DIRECTION
DAMPING VALUES = 0.010
0.020
0.030
0.040
NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% 3% & 4%
THREE CURVES REPRESENT A SPACING OF +10% AND -10%
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ
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PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 NS-1748-8

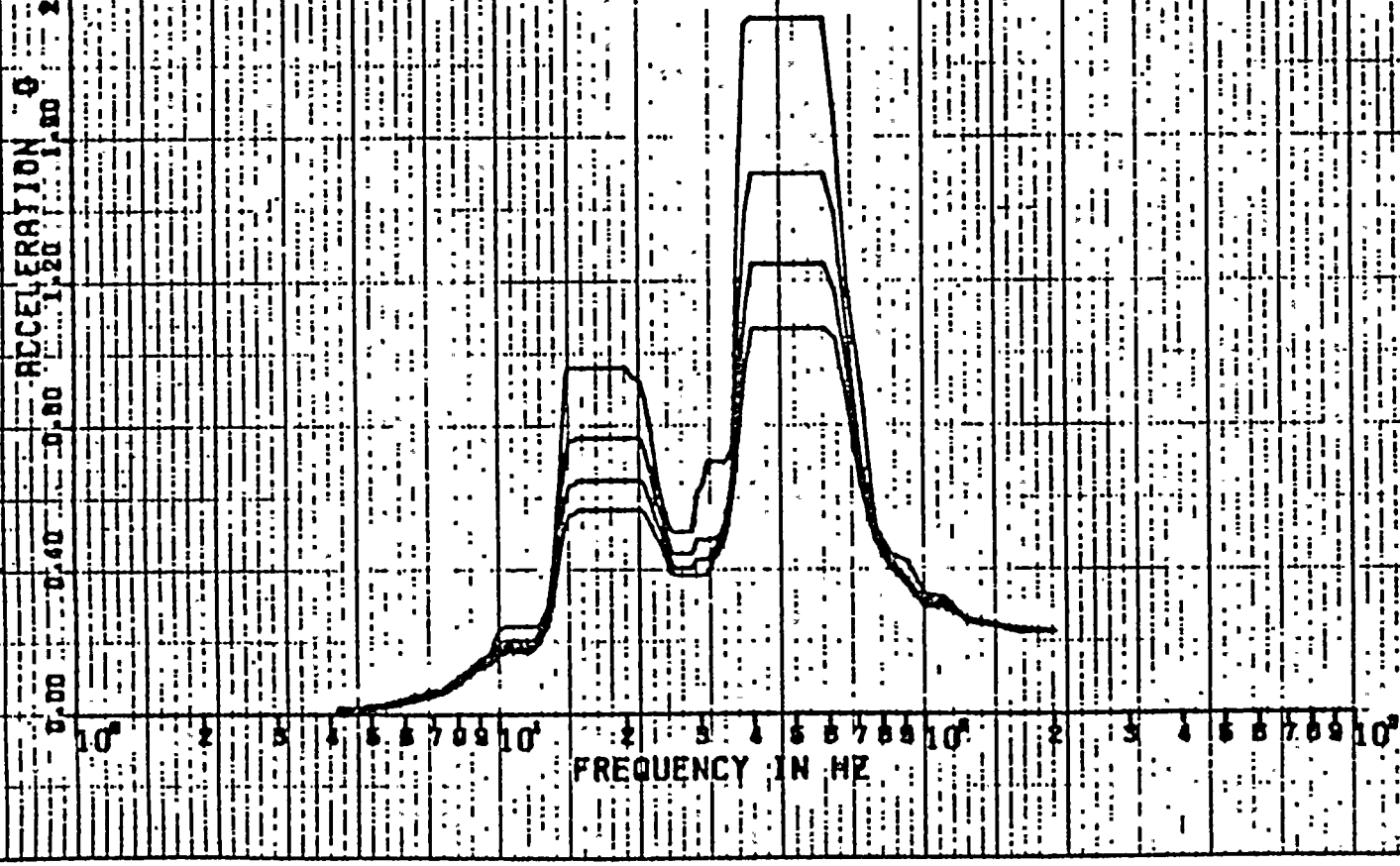
RMS OF ACCELERATION PRIM. CONT. TOP (ELEV.326.03 FT)

Page 91

MICHAEL K 83

DISK CURVE SET M3.40 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.030 0.040

NOTE: MULTIPLET OF RMS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +1SD OVR -1SD



REF 139

SPECTRA VER 01 LEV 03 SRVIENV.(OF ALL SRV CASES) 22 OCT 1982

P-92

MIRORAR MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0

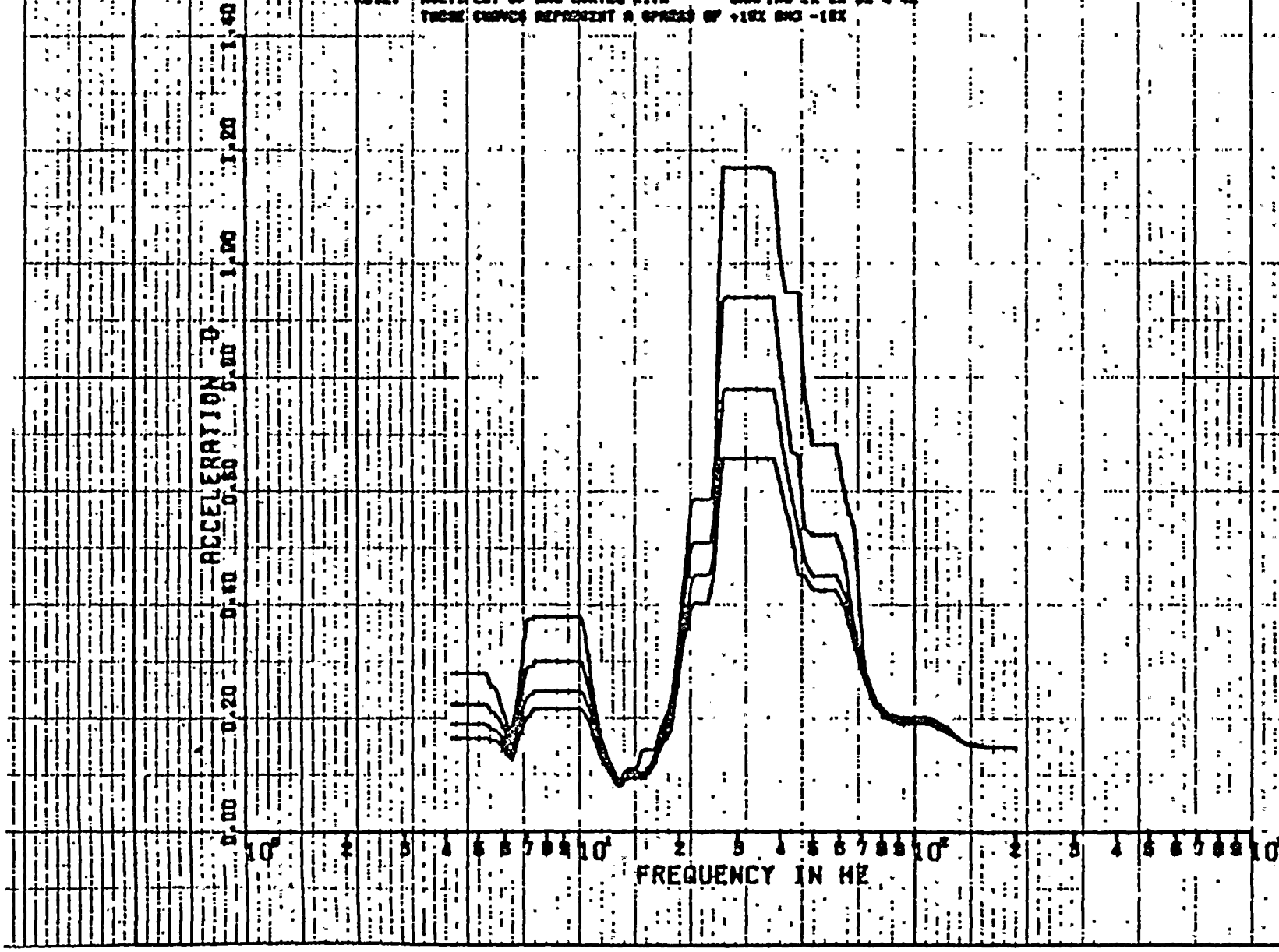
SRS OF ACCELERATION SHIELD WALL OUT (ELEV.315.29 FT)

MICHAEL K 03

DISK CURVE SET 00.41 HOR DIRECTION

DAMPING VALUES: 0.010
0.020
0.030
0.040

NOTE: MULTIPLOT OF SRS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 140

SPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0

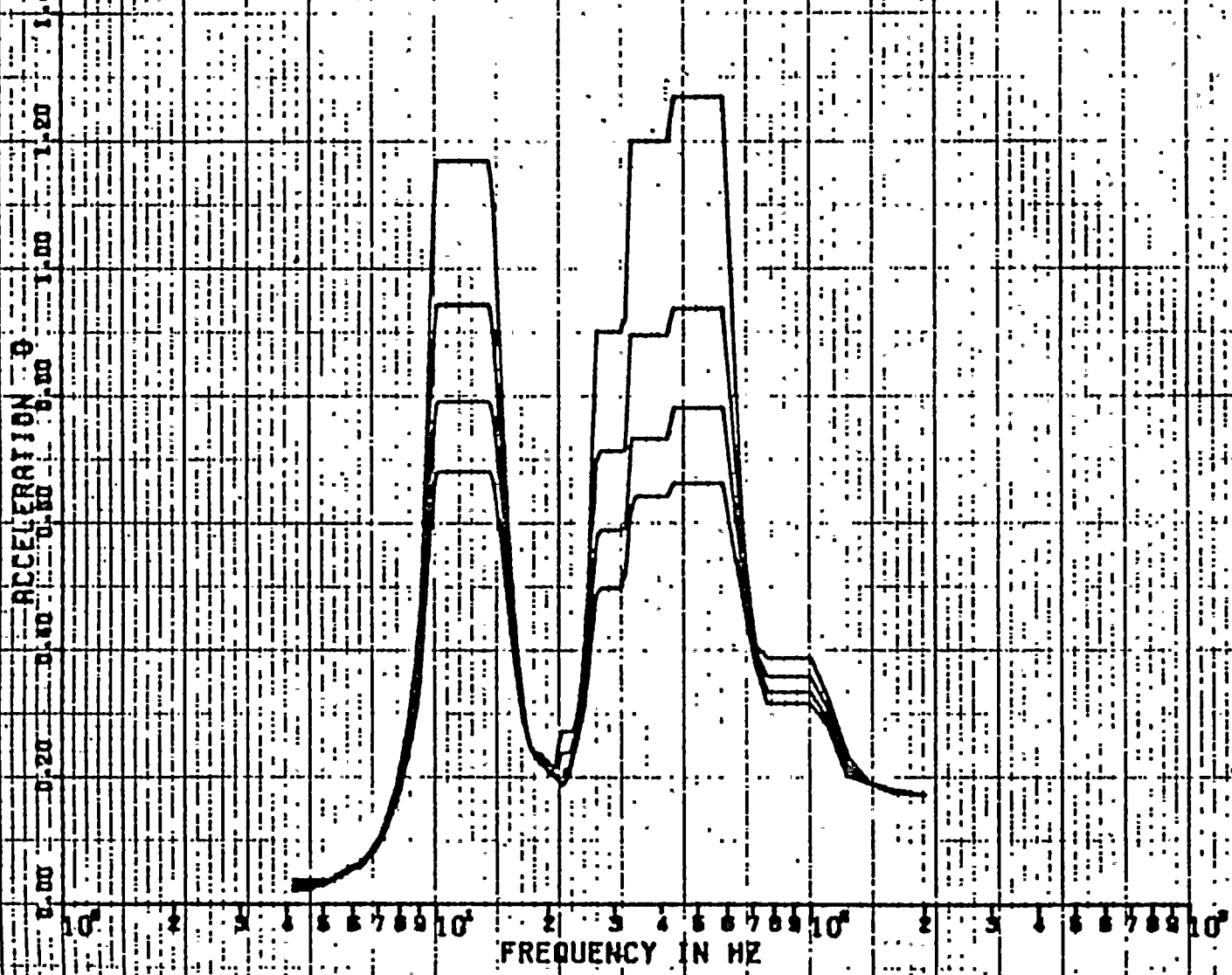
RRS OF ACCELERATION . SHIELD WALL OUT (ELEV.315.28 FT)

MICHAEL K SO

Page 93

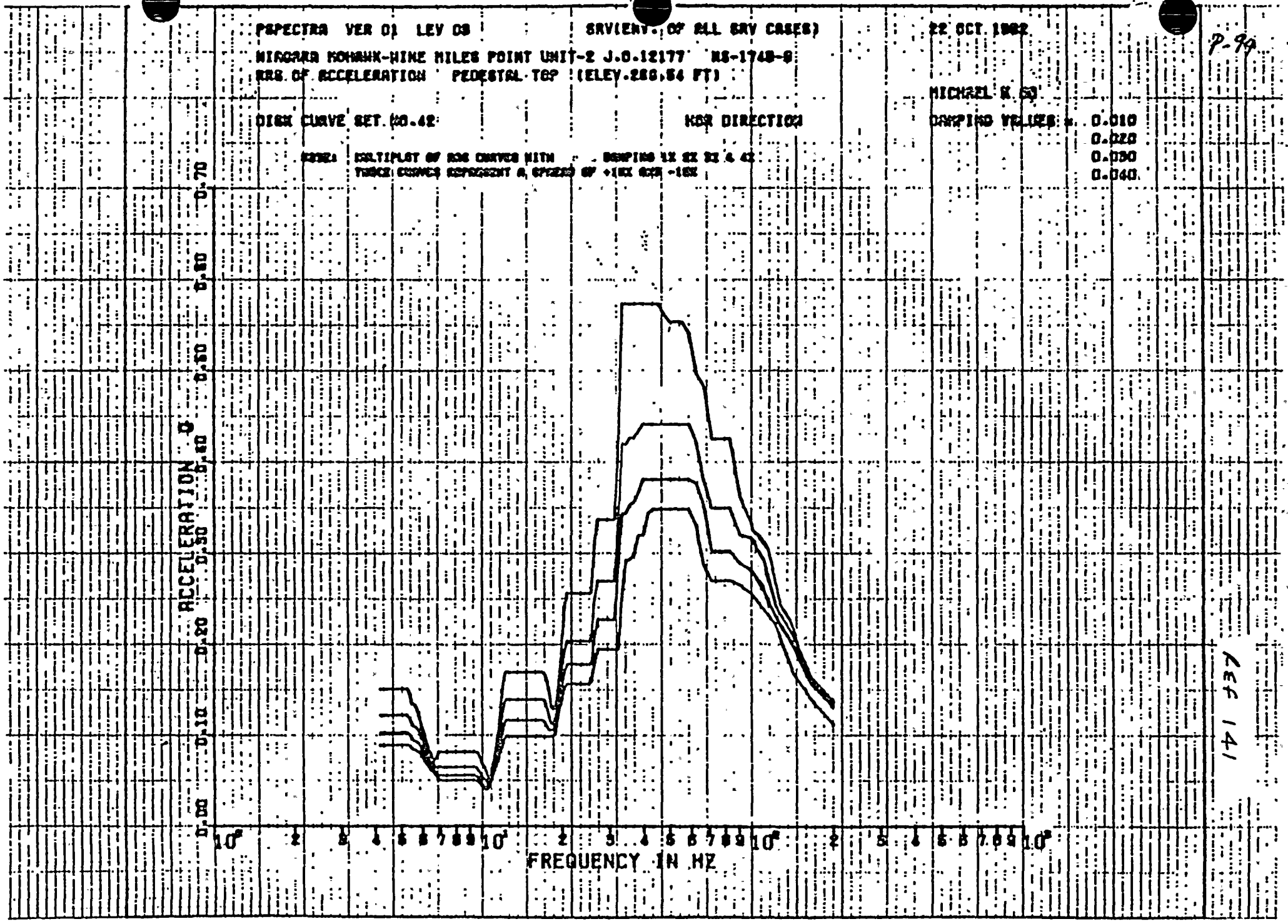
DISK CURVE SET NO.41 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% 3% & 4% .
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 140

P-99


PSPECTRA VER 01 LEV 08
SRVIENT. OF ALL SRV CASES)
22 OCT 1982
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 NS-1748-8
RRS OF ACCELERATION PEDESTAL TOP (ELEV.288.54 FT)
MICHAEL K.
DISK CURVE SET.
KOR DIRECTION
DAMPING VALUES
0.010
0.020
0.030
0.040
MULTIPLIT OF RSS CURVES WITH
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%
DAMPING 1% 2% 3% & 4%
ACCELERATION G
0.00
0.10
0.20
0.30
0.40
0.50
0.60
0.70
FREQUENCY IN HZ

Ref 141

P-95

SPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

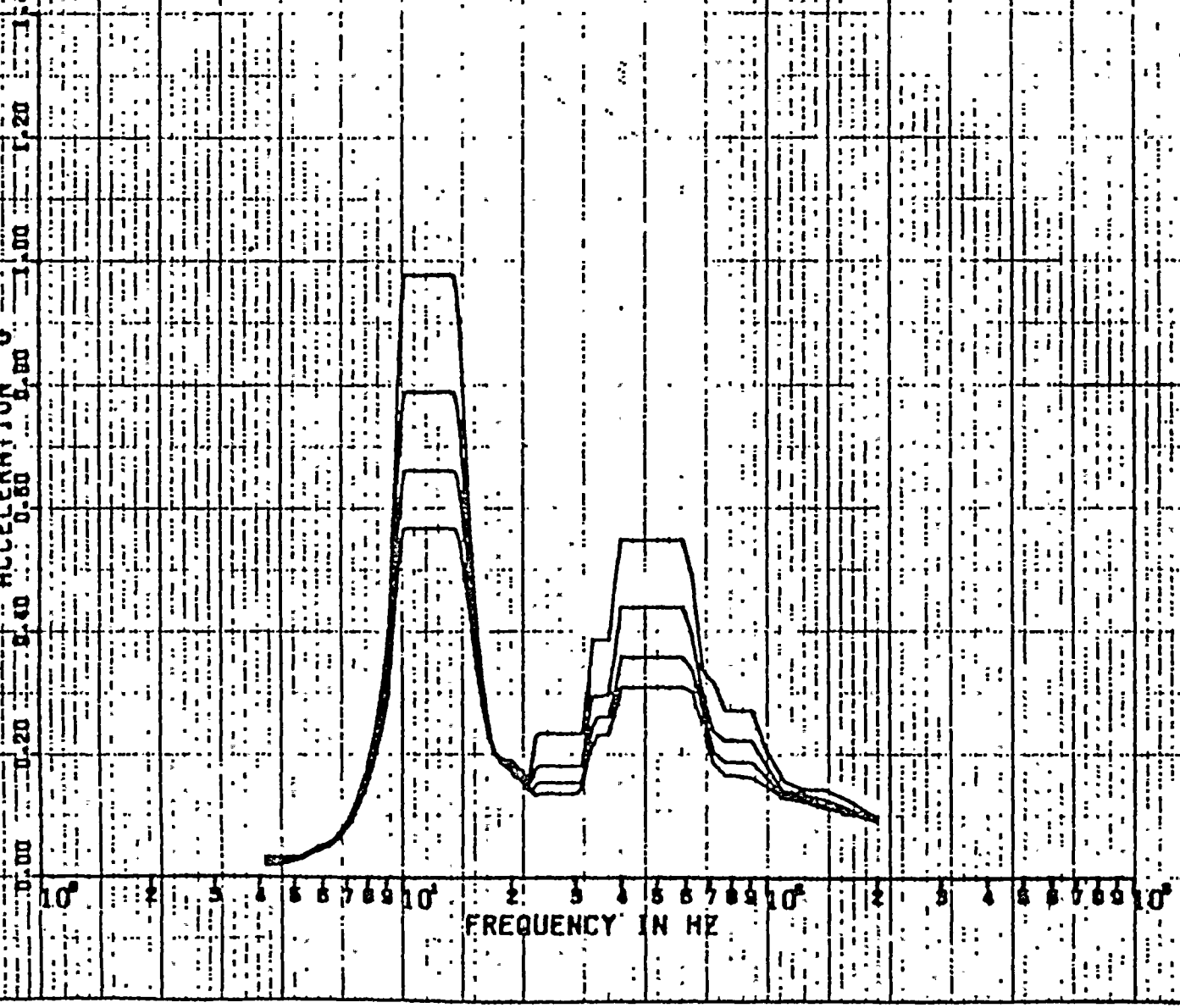
MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 R8-1748-8

RMS OF ACCELERATION , PEDESTAL TOP (ELEV.266.54 FT)

MICHAEL K.CO

DISK CURVE SET 50.42 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLY OF RMS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 141

SPECTRA VER 01. LEV 03 ENVELOP. OF ALL SRV CASES) 22 OCT 1982

P-96

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 NS-1748-0.

RMS OF ACCELERATION SHIELD WALL OUT (ELEV.276.28 FT)

MICHAEL H SO

DISK CURVE SET NO.48 HOR DIRECTION DAMPING VALUES = 0.010

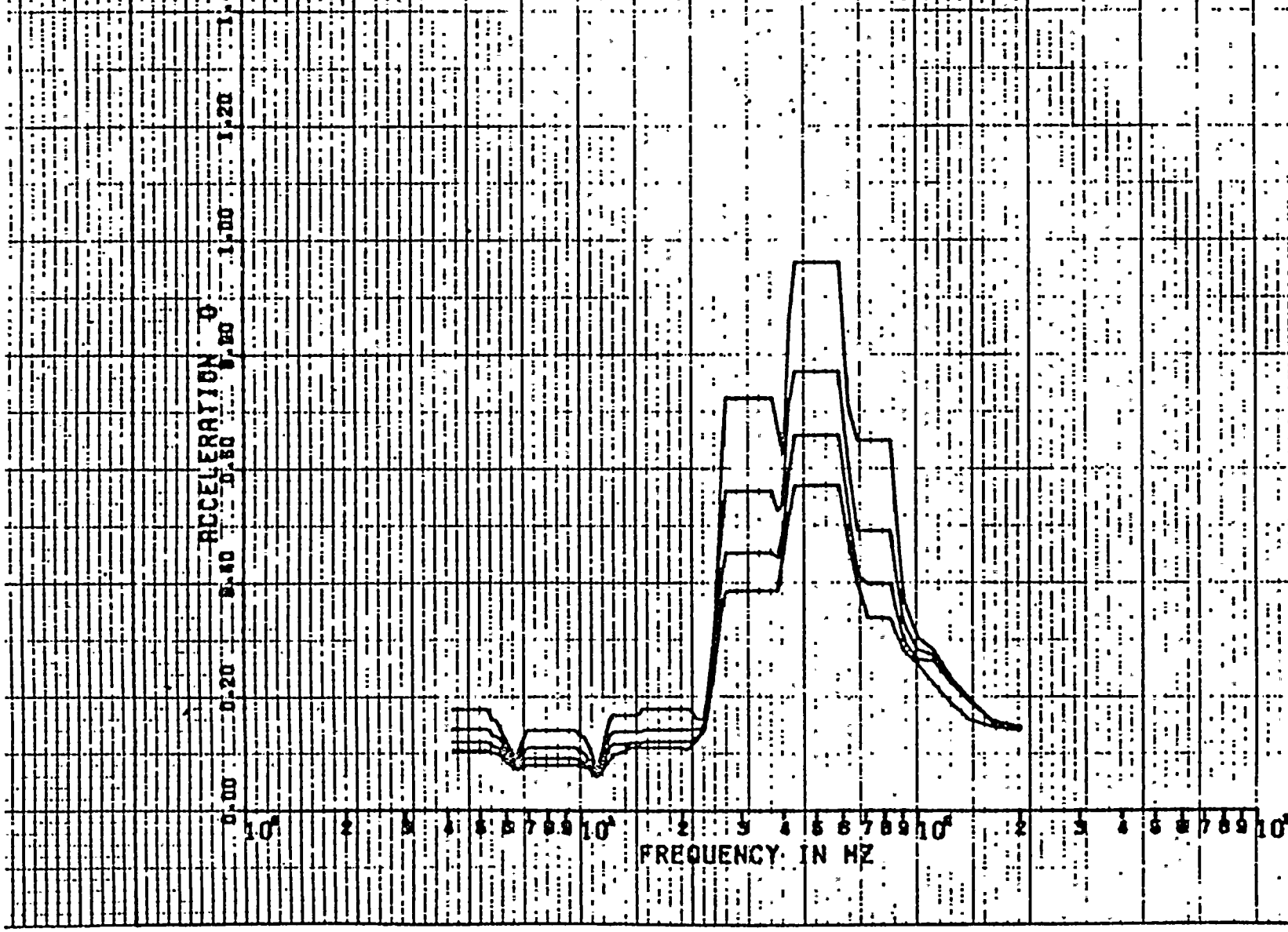
0.020

0.030

0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING IN ZZ ZX ZY & XY

THESE CURVES REPRESENT A SPREAD OF +1SX RMS -1SX



REF 142

SPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-8

RMS OF ACCELERATION SHIELD WALL OUT (ELEV.278.28 FT)

MICHAEL K 63

DISK CURVE SET 50.43 VER DIRECTION DAMPING VALUES = 0.010

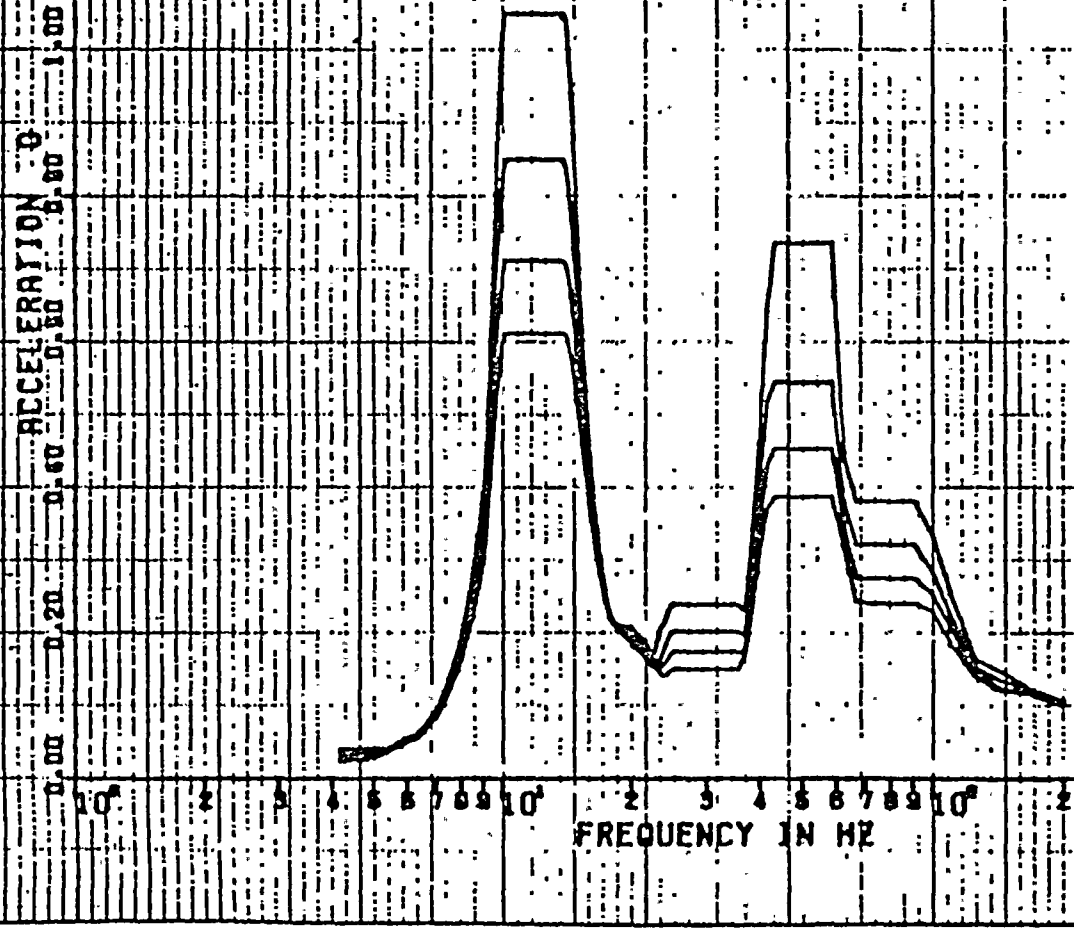
0.020

0.030

0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% 3% & 4%

THREE CURVES REPRESENT A SPREAD OF +10% AND -10%



P-97

REF 142

P-98

SPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

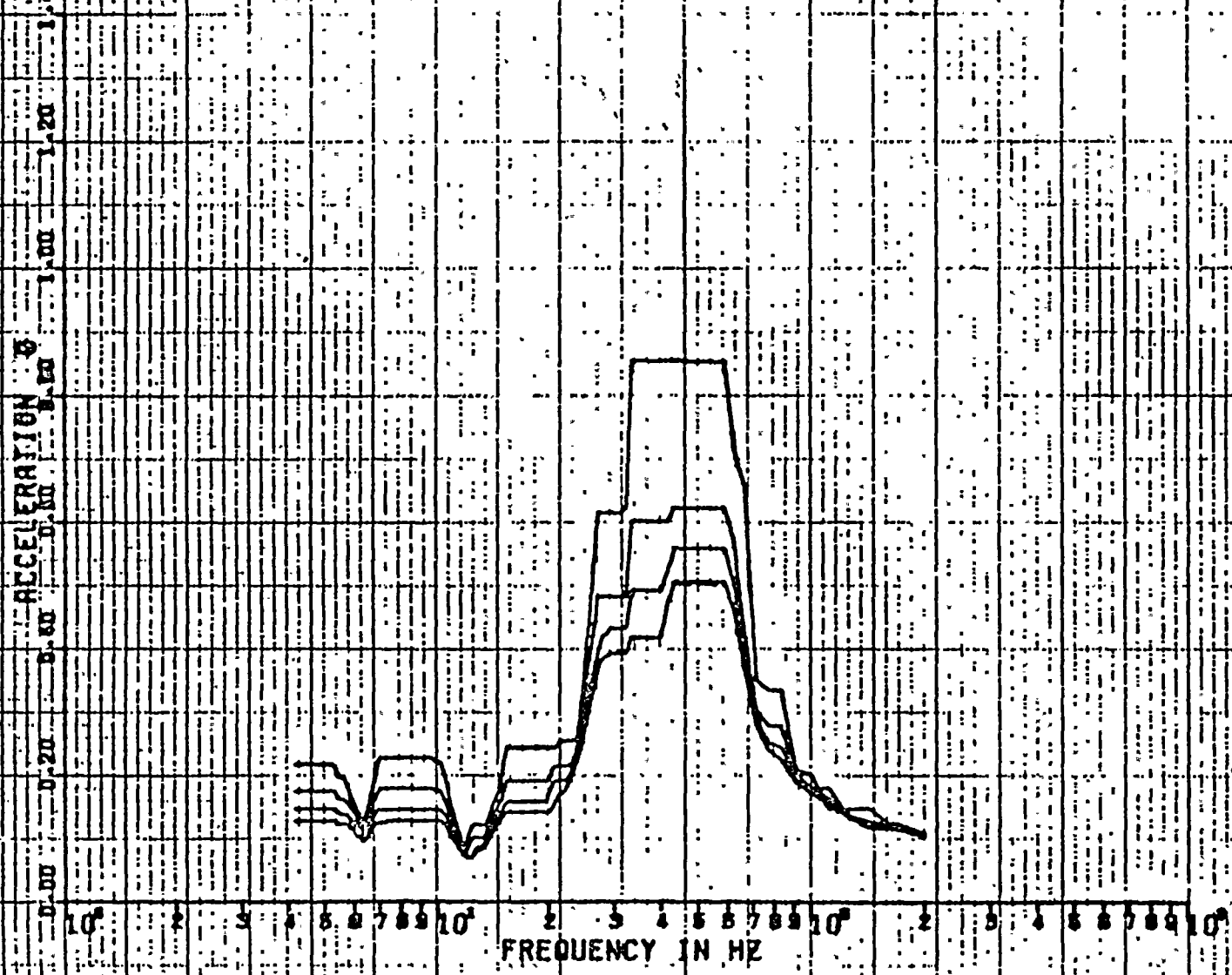
NINEMILE POINT-NINE MILES POINT UNIT-2 J:0-12177 NS-1745-0

SRS OF ACCELERATION SHIELD WALL OUT (ELEV. 290.69 FT)

MICHAEL K 09

DIEX CURVE SET 40.44 HOR DIRECTION DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLIER OF SRS CURVES WITH DAMPING 1X 2X 3X 4 4X
THESE CURVES REPRESENT A SPREAD OF +1SX SRS -1SX



REF 143

P-99

P&SPECTRA. VER 01..LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982.

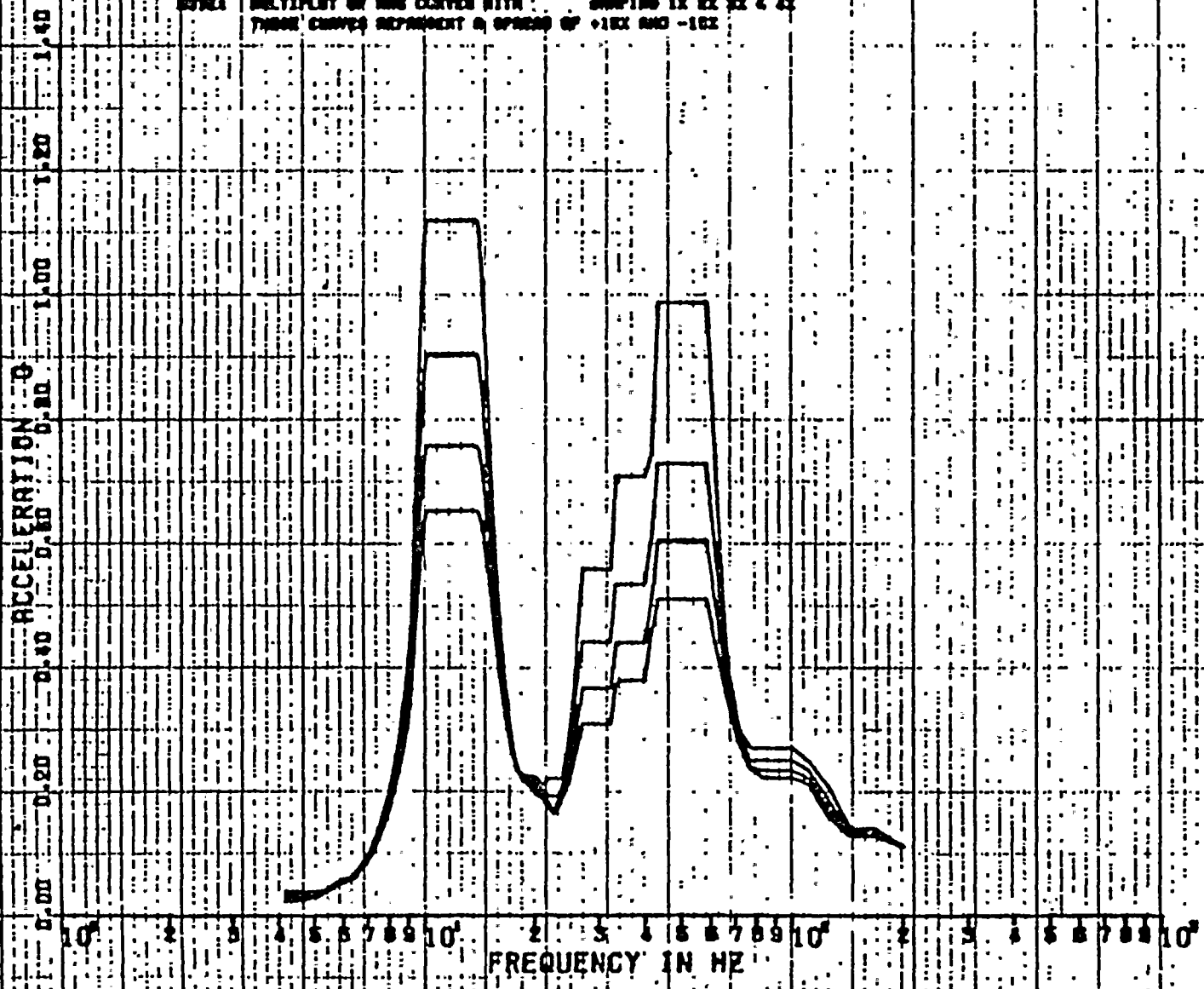
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0'

RMS OF ACCELERATION SHIELD WALL OUT (ELEV. 280.00 FT)

MICHAEL K.

DISK CURVE SET.NO.44 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.030 0.040

NOTE: MULTIPLOT OF RMS CURVES WITH : DAMPING 1X 2X 3X & 4X
THOSE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 143

P-100

PSPECTRA VER 01 LEV 09 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

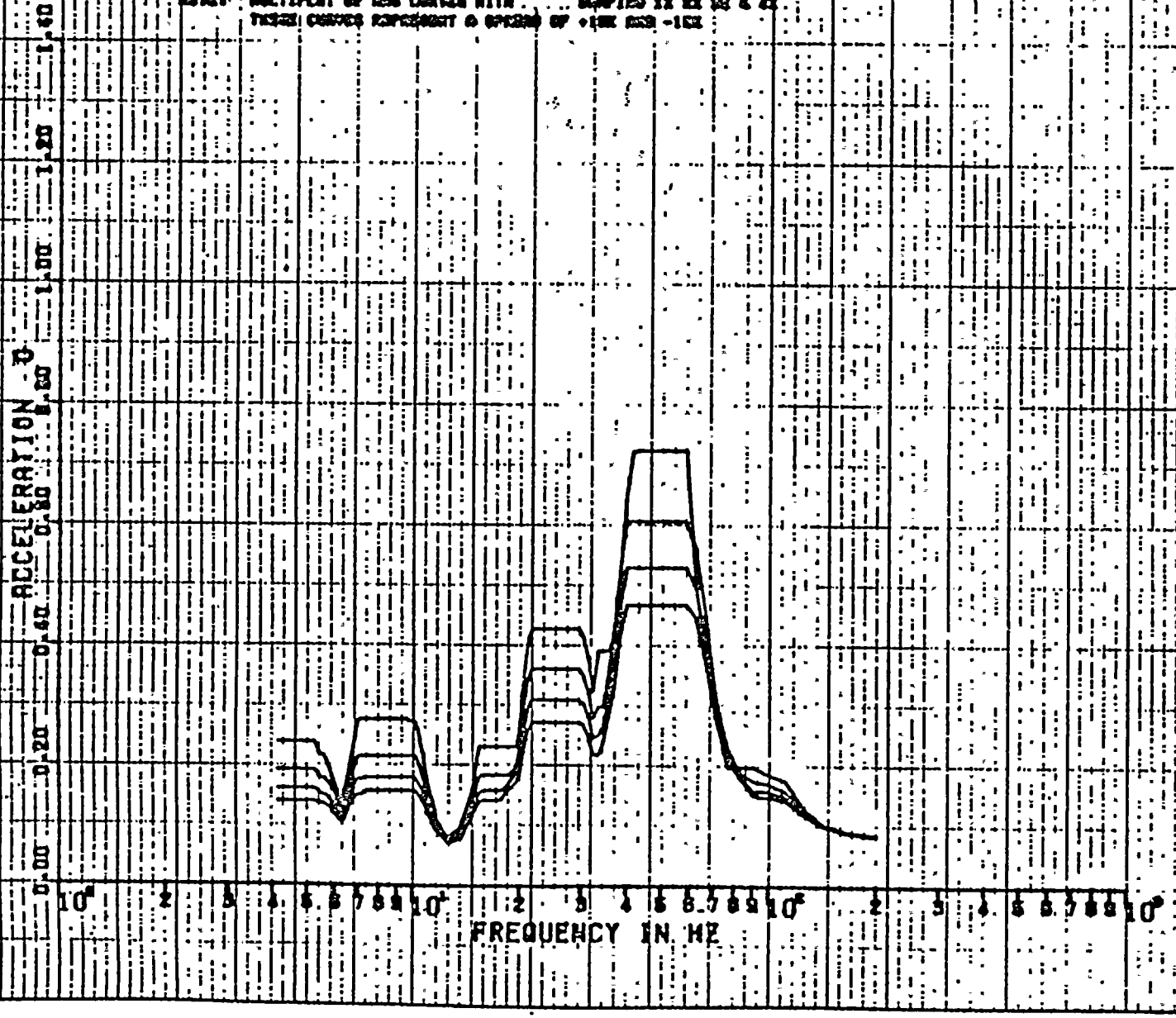
MIRONER MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 RS-1748-8

RMS OF ACCELERATION . SHIELD WALL OUT (ELEV 338.82 FT)

MICHAEL K CO

DISK CURVE SET NO.45 NOD DIRECTION DAMPING VALUES : 0.010
0.020
0.050
0.080

NOTE: MULTIPLOT OF DRS CURVES WITH DAMPING 1% 2% 5% & 8%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 144

P-101

SPECTRA VER 01 LEV 08 SRVIENV. (ALL SRV CASES) 22 OCT 1982

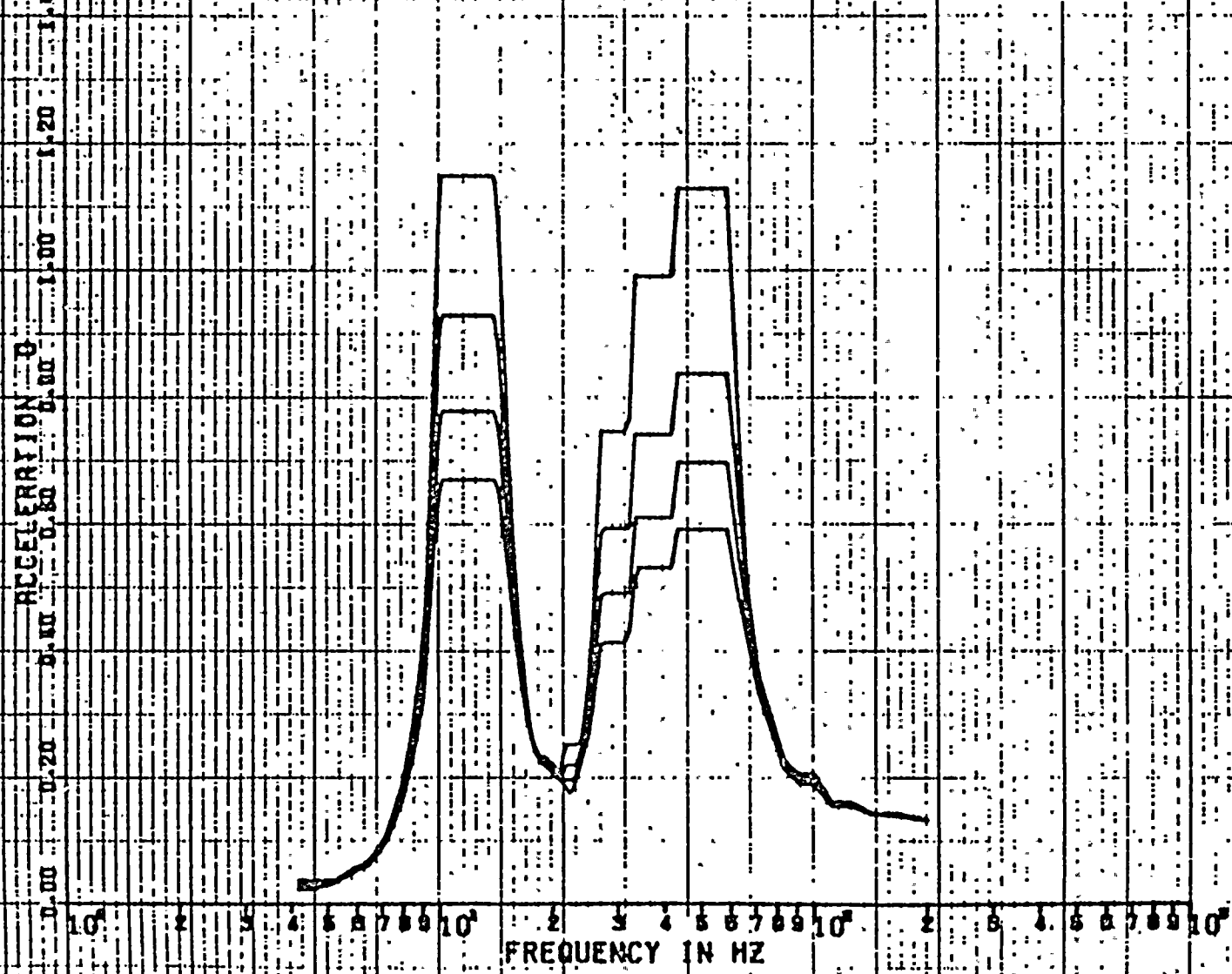
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0

RRS OF ACCELERATION SHIELD WALL OUT (ELEV.500.62 FT)

MICHAEL W 83

DIGN CURVE SET 45.45 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.030
0.040

NOTE: MULTIPLIER OF RRS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 144

PSPECTRA VER 01 LEV 03 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

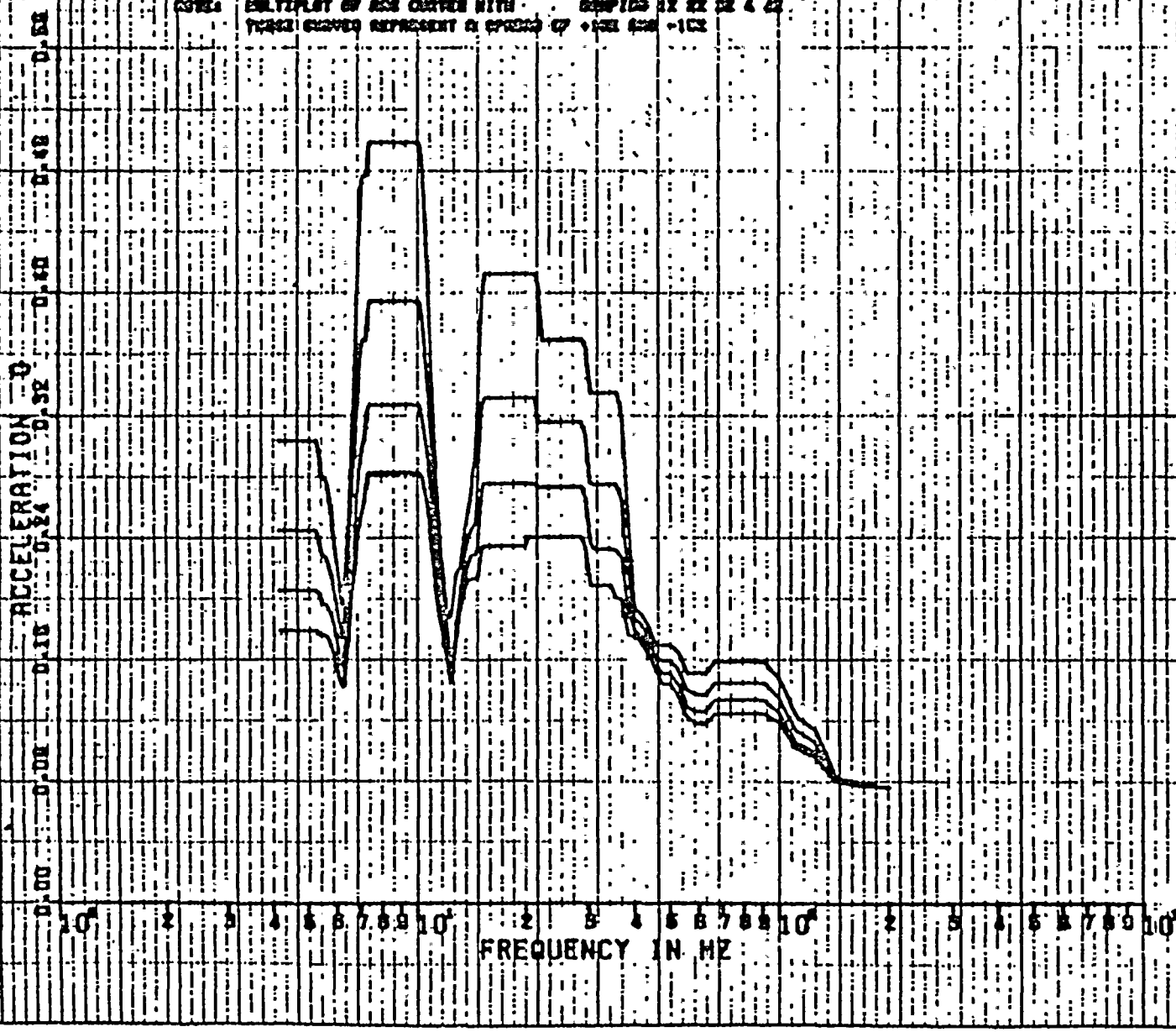
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 NS-1749-0

RMS OF ACCELERATION SPV:SHELL (ELEV.315.00 FT)

MICHAEL K. ZB

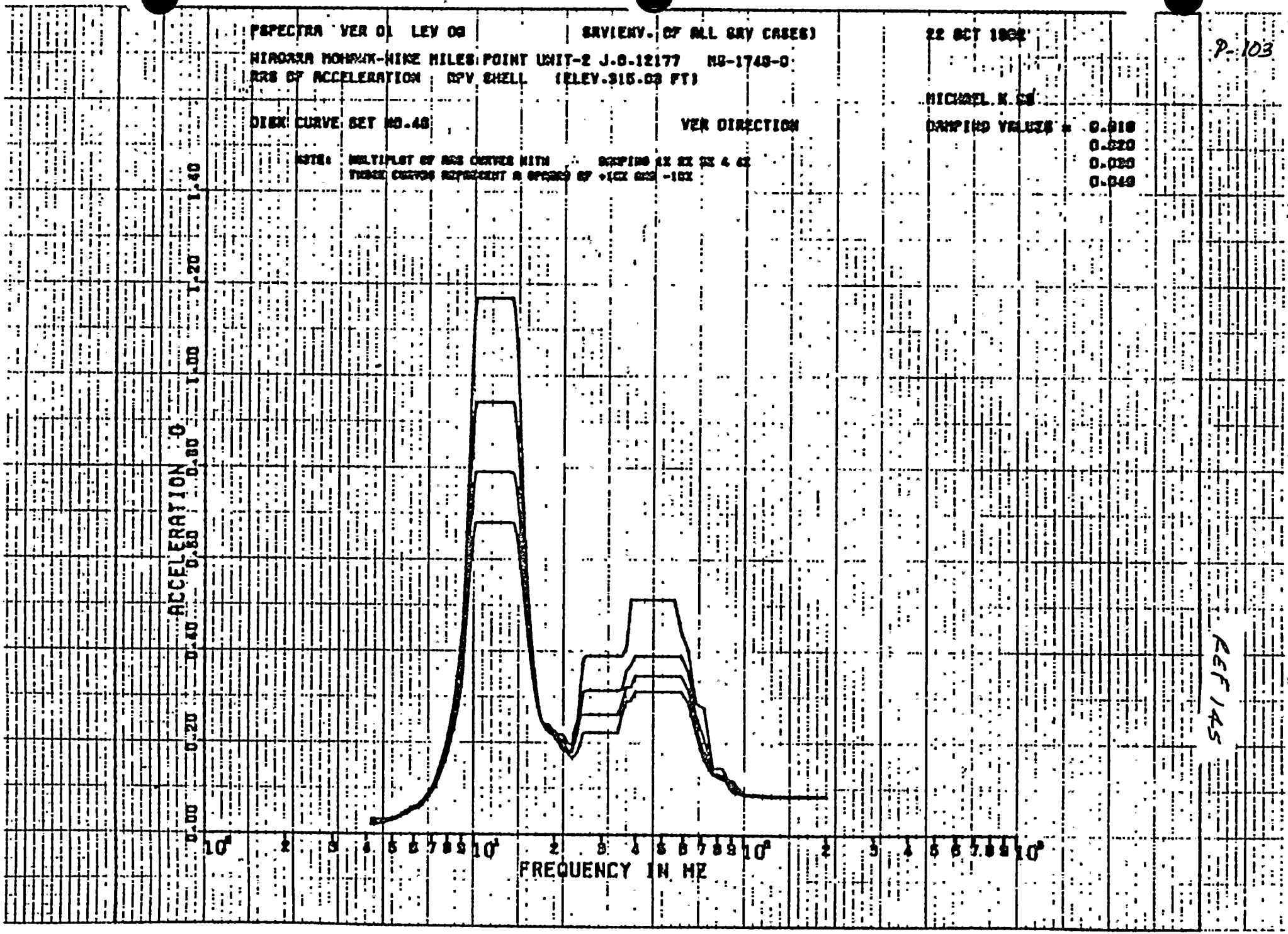
DISK CURVE SET 00.48 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.030 0.040

CODE: EMLTIPLOT OF RMS CURVES WITH DAMPING 02 02 02 & 02
THESE CURVES REPRESENT A SPECTRUM OF +1SD AND -1SD

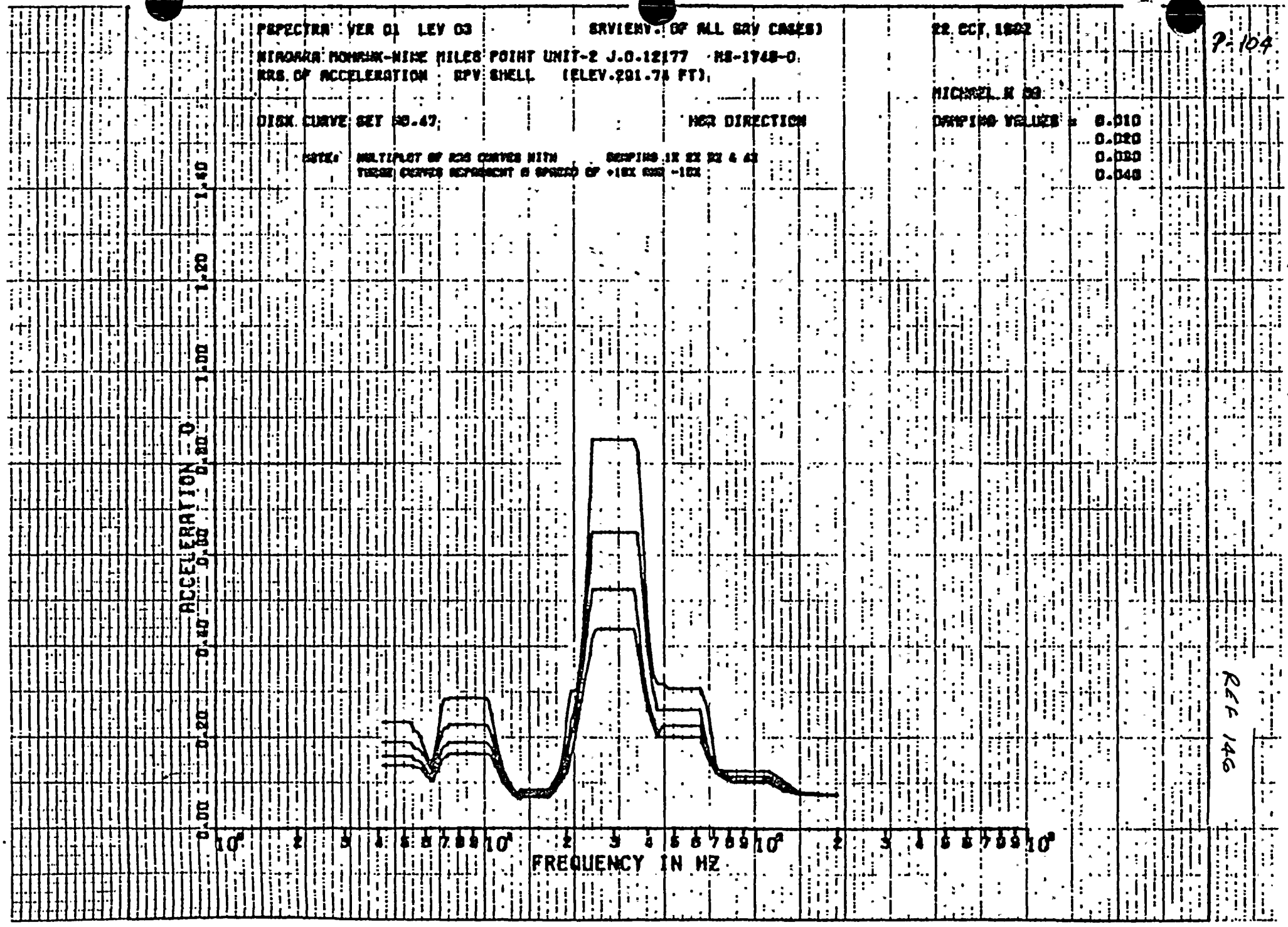


REF 145

P-103


PSPECTRA VER 01 LEV 09
SAVIENV. (OF ALL SRV CASES)
22 OCT 1982
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 NS-1748-0
RRS OF ACCELERATION RPV SHELL (ELEV.315.03 FT)
MICHAEL K.
DIEX CURVE SET NO.48
VER DIRECTION
DAMPING VALUES = 0.010
0.020
0.030
0.040
NOTE: MULTIPLIT OF RGS CURVES WITH DAMPING 1% 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%
ACCELERATION G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
FREQUENCY IN HZ
REF 145

P-104


PSPECTRA VER 01 LEV 03
SRVIEWV. OF ALL SRV CASES)
22 OCT 1982
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1748-0
RMS OF ACCELERATION RPV SHELL (ELEV.291.75 FT)
MICHAEL N 00
DISK CURVE SET 00.47
HOR DIRECTION
DAMPING VALUES = 0.010
0.020
0.030
0.040
NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1X 2X 3X & 4X
THESE CURVES REPRESENT A SPACED OF +1SX AND -1SX
ACCELERATION - G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
FREQUENCY IN HZ
REF 146

PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 RS-1748-8

RMS OF ACCELERATION RPV SHELL (ELEV.281.74 FT).

MICHAEL K. [illegible]

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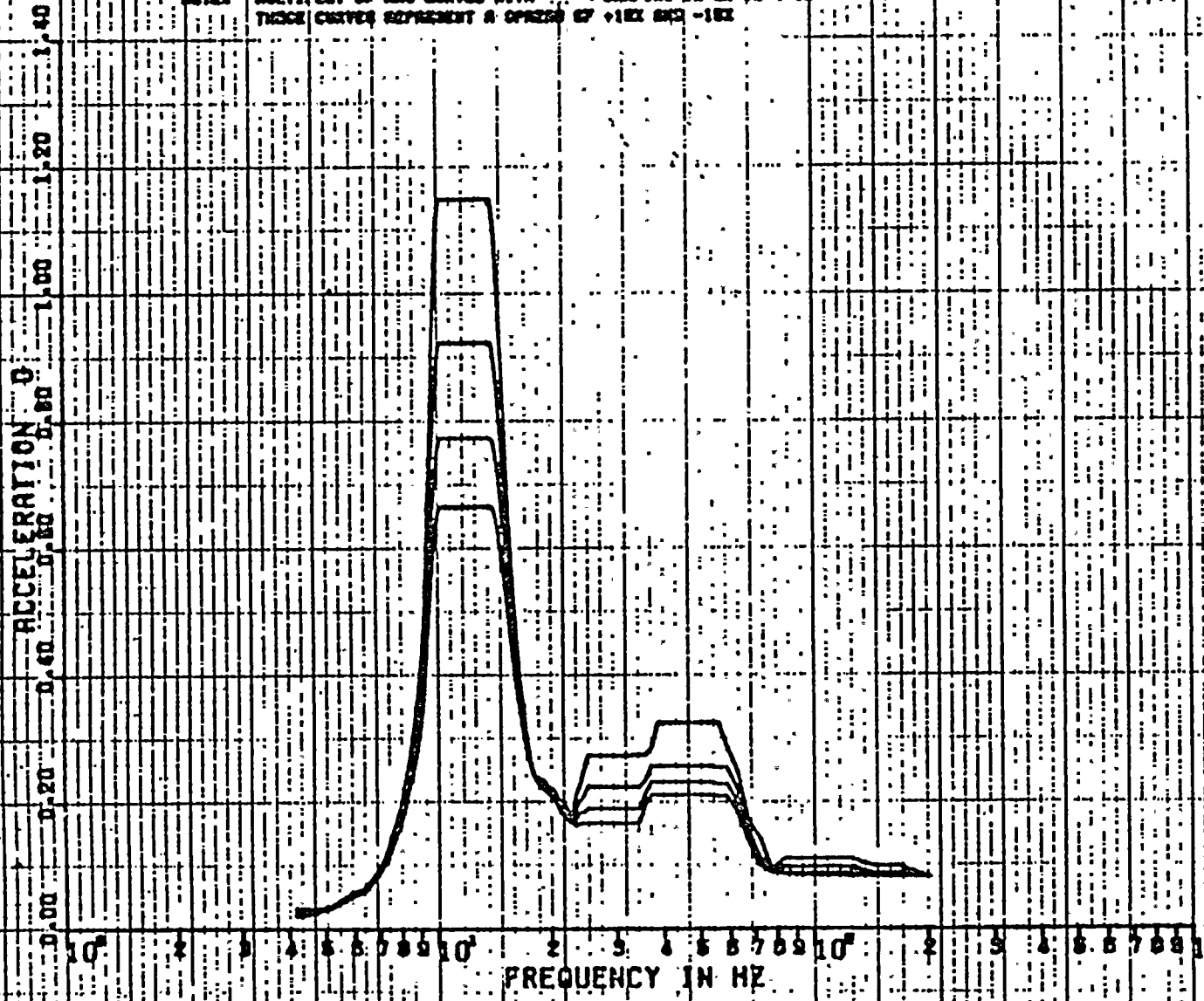
DISK CURVE SET NO.47 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.030 0.040

NOTE: MULTIPLET OF RMS CURVES WITH DAMPING 1% 2% 3% & 4%
THICK CURVES REPRESENT A SPREAD OF +1SD AND -1SD



REF 146

P. 106

PSPECTRA VER 01 LEV 03 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

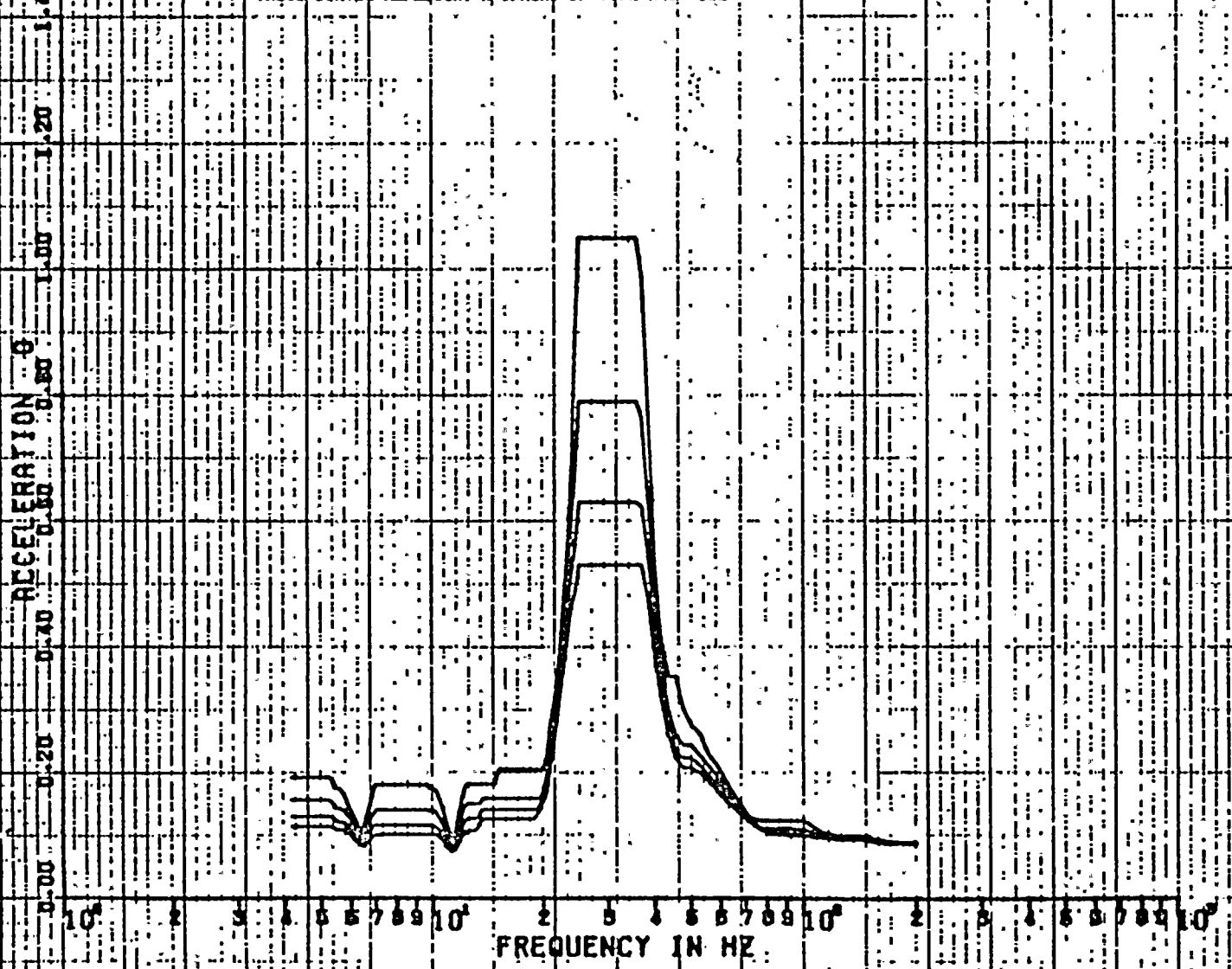
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 NS-1748-8

RMS OF ACCELERATION RPV SHELL (ELEV.270.11 FT)

MICHAEL N. 03

DISK CURVE SET 20.48 HOR DIRECTION DAMPING VALUES = 0.018
0.020
0.029
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% 3% & 4%.
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 147

P107

PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

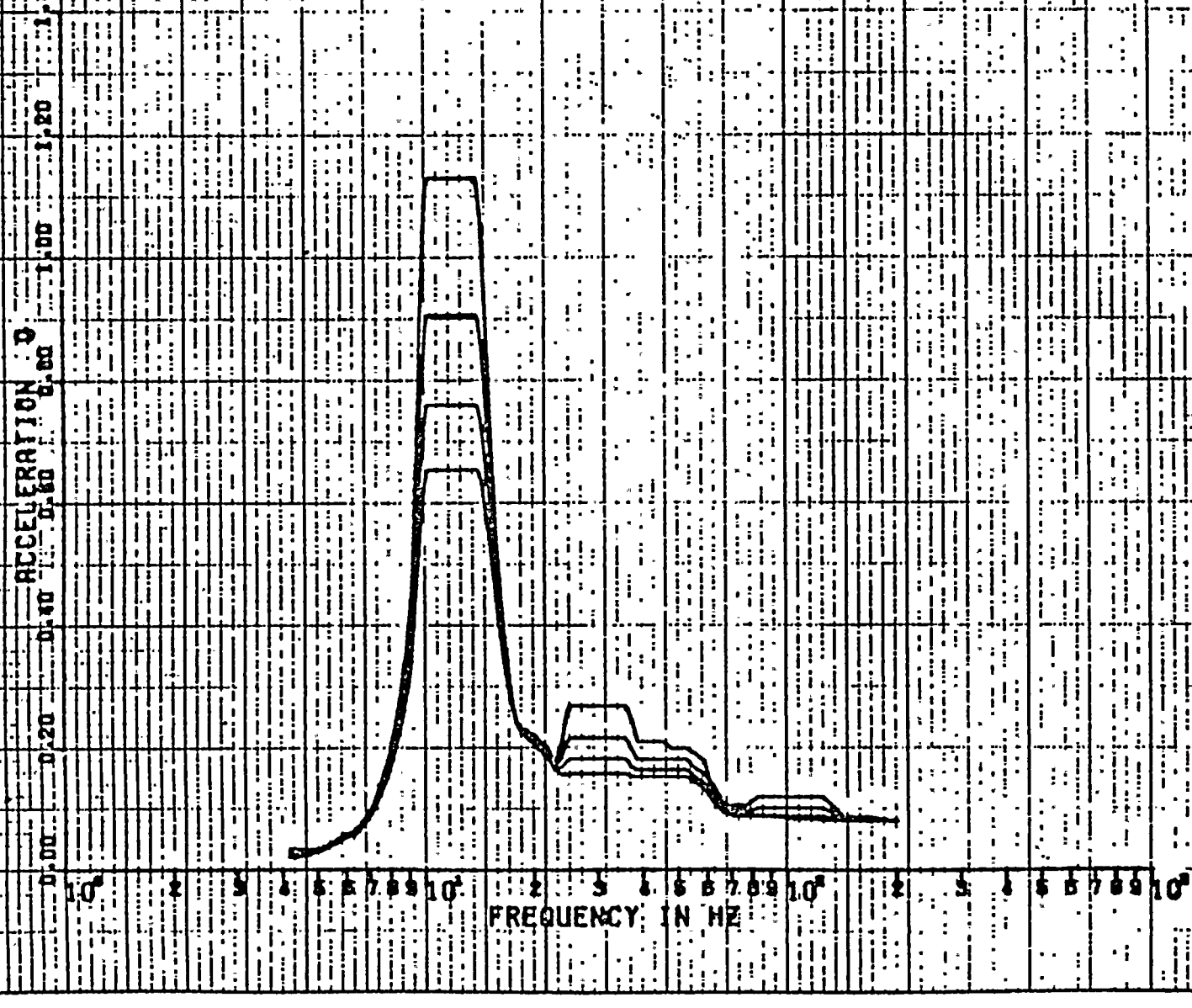
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 NS-1748-0

RRS OF ACCELERATION RPV SHELL (ELEV.276.11 FT)

MICHAEL M 23

DIER. CURVE SET NO.48 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.030 0.040

NOTE: MULTIPLIT OF RRS CURVES WITH DAMPING IN EX 23 & 42.
TOTAL CENTER COMPONENT A CAMBER OF +(EX 8X) -1X2



Ref 147

P108

PSPECTRA VER 01 LEV 08 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

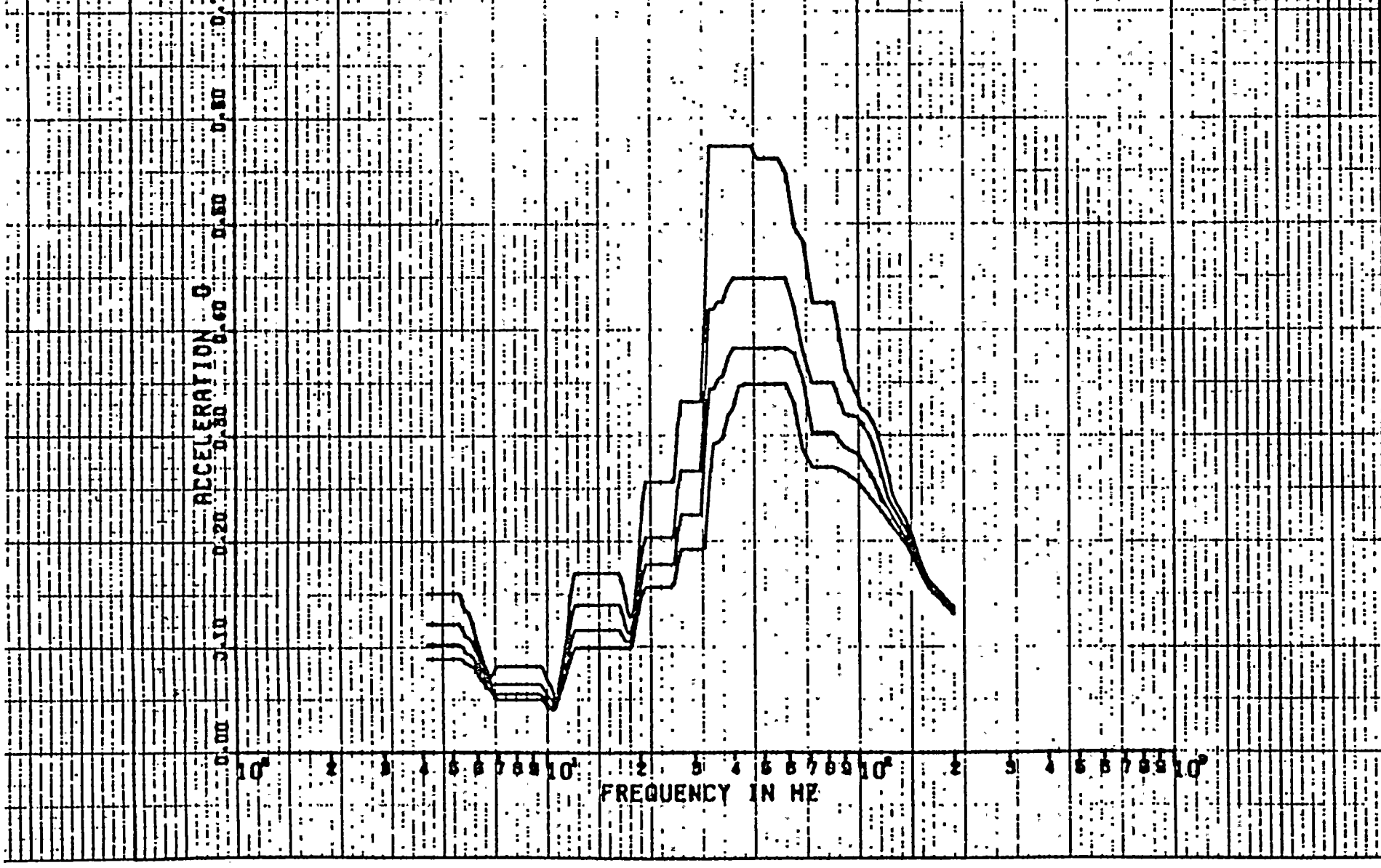
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 NS-1748-8

RMS OF ACCELERATION RPV SHELL (ELEV.265.54 FT)

SAFETY RELIEF VALVE DISCHARGE(SIM40-8HZ) -RADIAL ACCELERATIONS MICHAEL N CO

DISK CURVE SET NO.49 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.020 0.040

NOTE: MULTIPLIT OF RMS CURVES WITH DAMPING 1% 2% 3% 4 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 148

P 109

PSPECTRA VER 01 LEV 03 SRV(ENV. OF ALL SRV CASES) 22 OCT 1982

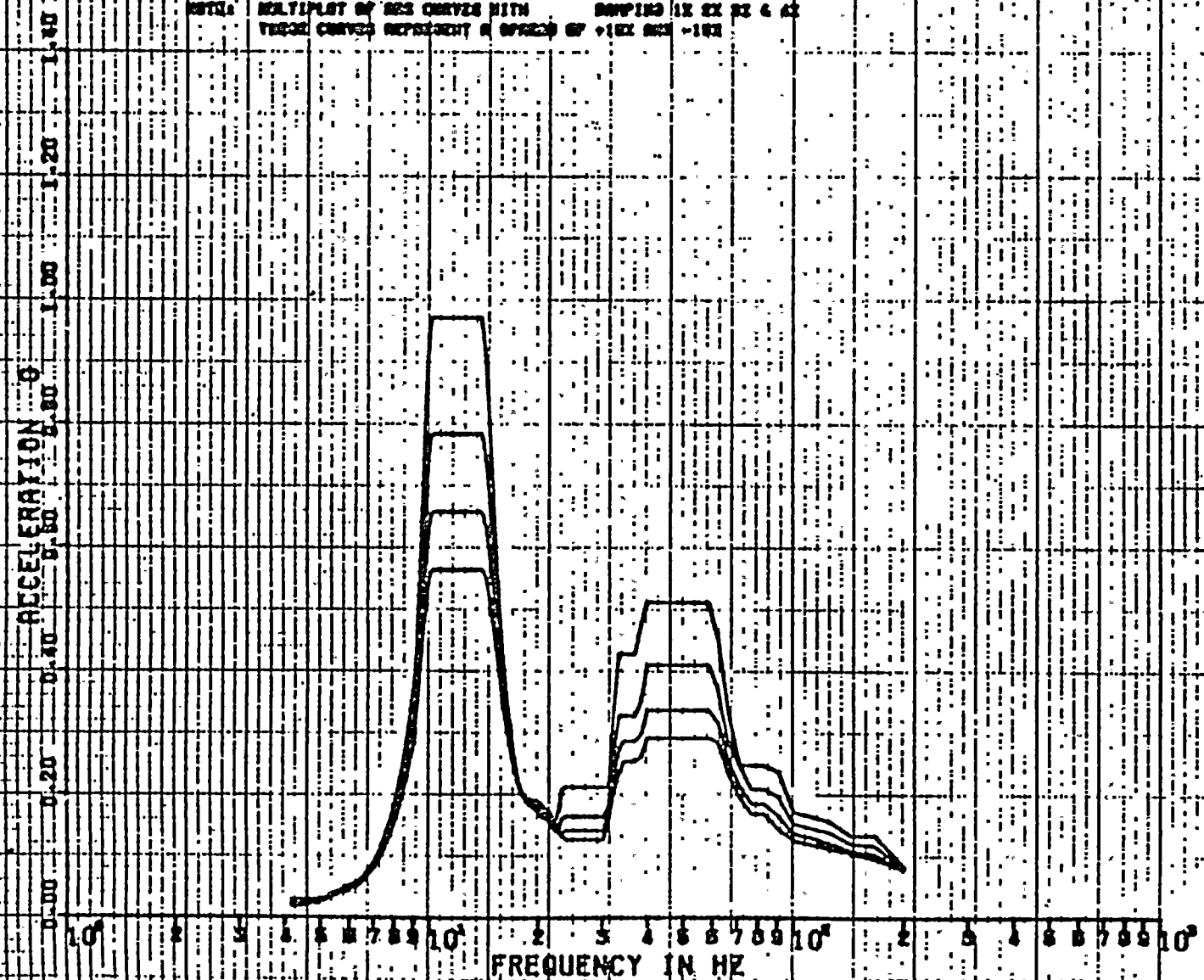
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1740-0

RMS OF ACCELERATION : RPV SHELL (ELEV.286.54 FT)

SAFETY RELIEF VALVE DISCHARGE(SIMAD-2HZ) -RADIAL ACCELERATIONS. MICHAEL K 03

DISK CURVE SET NO.49 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.050
0.010

NOTE: MULTIPLIT OF RMS CURVES WITH DAMPING 1X 2X 3X & 4X
THESE CURVES REPRESENT A SPREAD OF +1SX AND -1SX



REF 148

NMP2

SEISMIC OBE AND SSE REQUIRED RESPONSE SPECTRA
ALL BUILDINGS EXCLUDING THE REACTOR BUILDING

ATTACHMENT A

Seismic OBE and SSE

Required Response Spectra (RRS)
For Electrical Tunnels, Standby Gas
Treatment, Turbine, Control, Diesel
Generator, Condensate Storage Tank,
and Radwaste Buildings

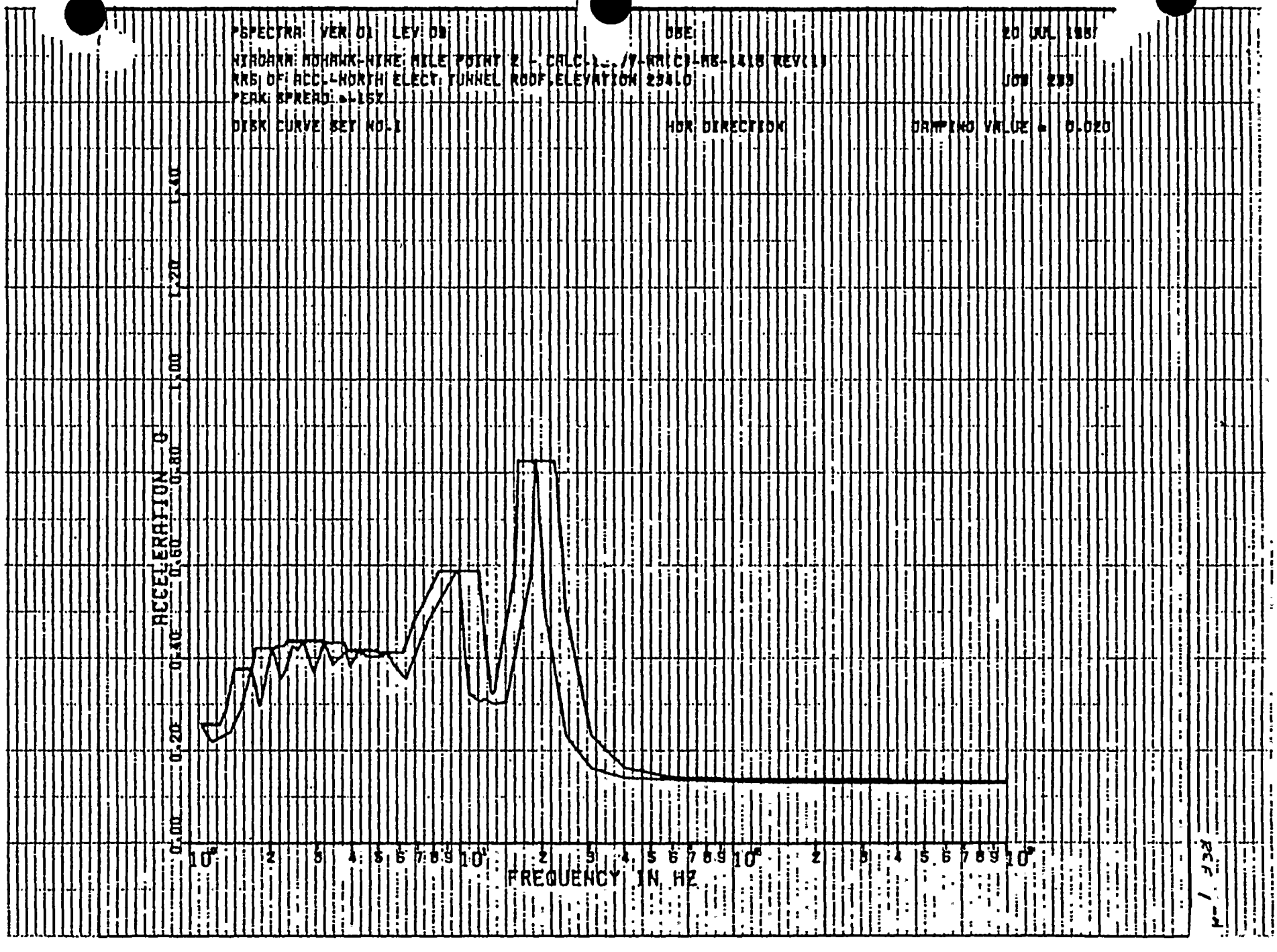
Building	Elev (ft)	Reference No.*
North Electrical Tunnel (Section E)	234.00	1
Standby Gas Treatment	216.00	2
	286.00	3
	310.00	4
Turbine and Vicinity Structures**	250.00	5
	277.50	6
	306.00	7
	336.00	8
	377.00	9
	230.00	10
	261.00	11
	277.00	12
	292.00	13
Control and Diesel Generator	214.00	14
	237.00	15
	261.00	16
	287.58	17
	306.00	18
	327.00	19
South Electrical Tunnel	234.00	20
Radwaste and Condensate Storage Tank	251.00	21
	261.00	22
	279.00	23
	291.50	24
	309.00	25
	339.00	26
Turbine Support (lines 4-5)	274.50	27
(lines 9-10)	274.50	28
	300.10	29
Ground	261.00	30

*Each reference number includes:

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

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

**The vicinity structures include the following: auxiliary boiler building, auxiliary service building, demineralizer water and neutron tank building, electrical bay, heater bay, intake discharge shaft building, main steam tunnel, normal switchgear building, screenwell building, and service building.


PSPECTRA VER 01 LEV 03
OBE
20 JUL 1981
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC-1-.-/7-NA(C)-NS-1418 REV(1)
RRS OF ACCL-NORTH ELECT TUNNEL ROOF,ELEVATION 2341.0
JOB 233
PEAK SPREAD = 1.15%
DISK CURVE KEY NO.1
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION - G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
FREQUENCY IN HZ

REF 1

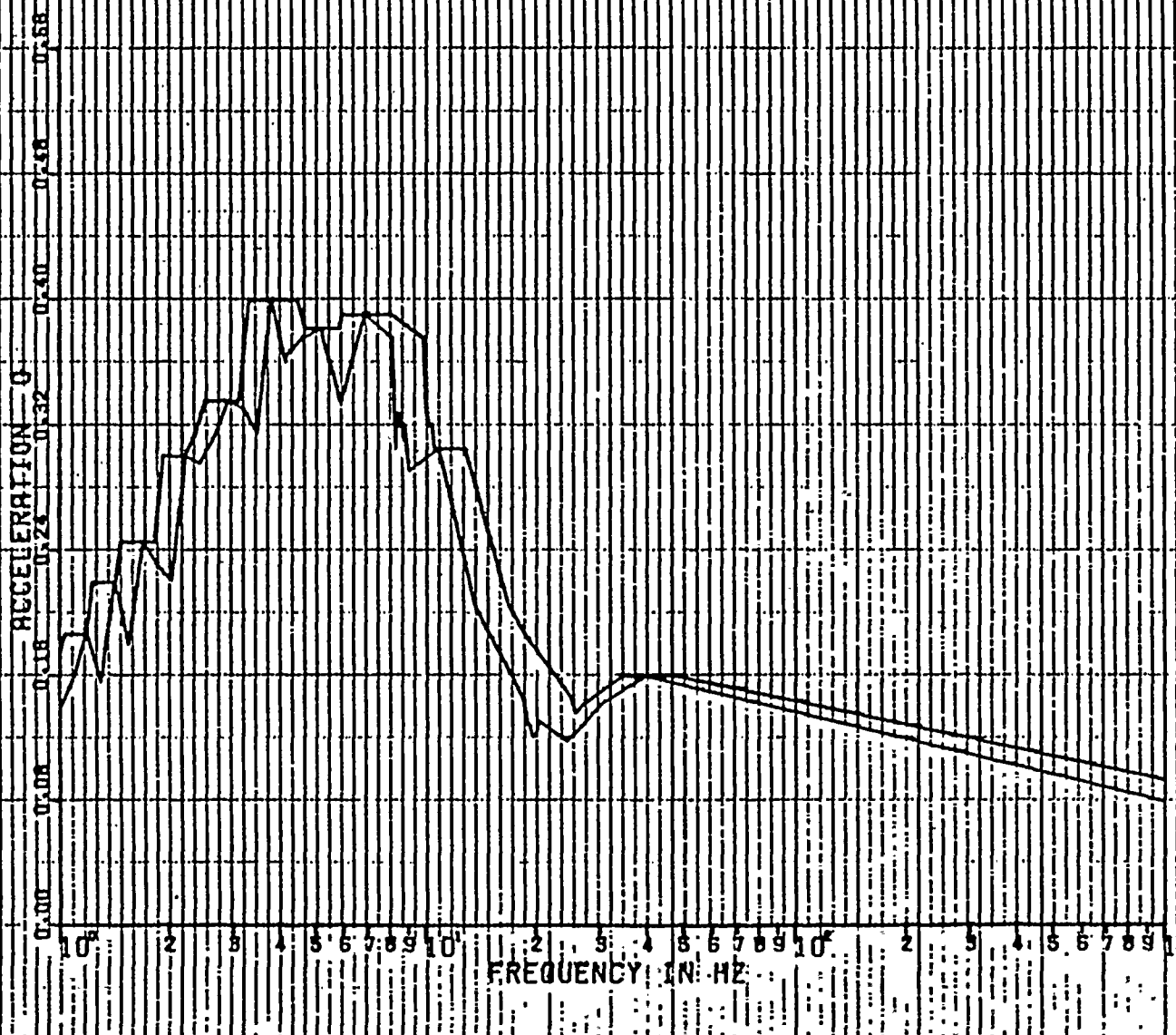
PSPECTRA| VER:01 LEV:09 OBE 20 JUL 1983

RIADAMA: MOHAWK-WIRE MILE POINT 2 - CALC.12177-MM(C)-MS-1418 REV(1)

RMS OF ACC.-NORTH ELECT TUNNEL ROOF ELEVATION 294.0 JOB 259

PEAK SPREAD:+-15%

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



REF 1

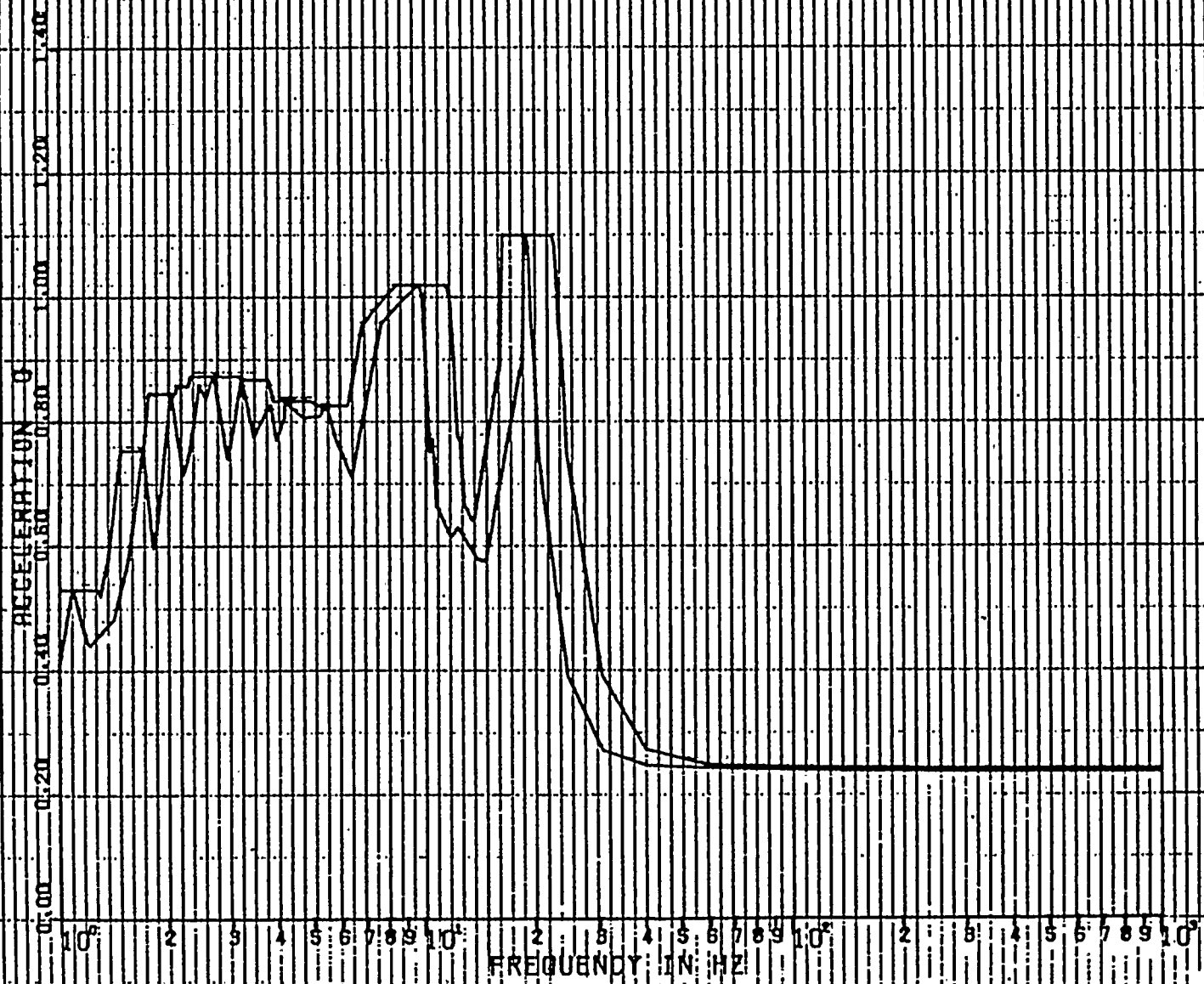
PSPECTRA VER 01 LEV 09 S.S.E 15 JUL 1985

NIAGARA MOHAWK-NINE MILE POINT 2 - CALC.12177-NR(C)-NS-1418 REV(1)

RMS OF ACC.-NORTH ELECT TUNNEL ROOF,ELEVATION 234.0 JOB 2338

PEAK SPREAD >-15%

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



REF 1

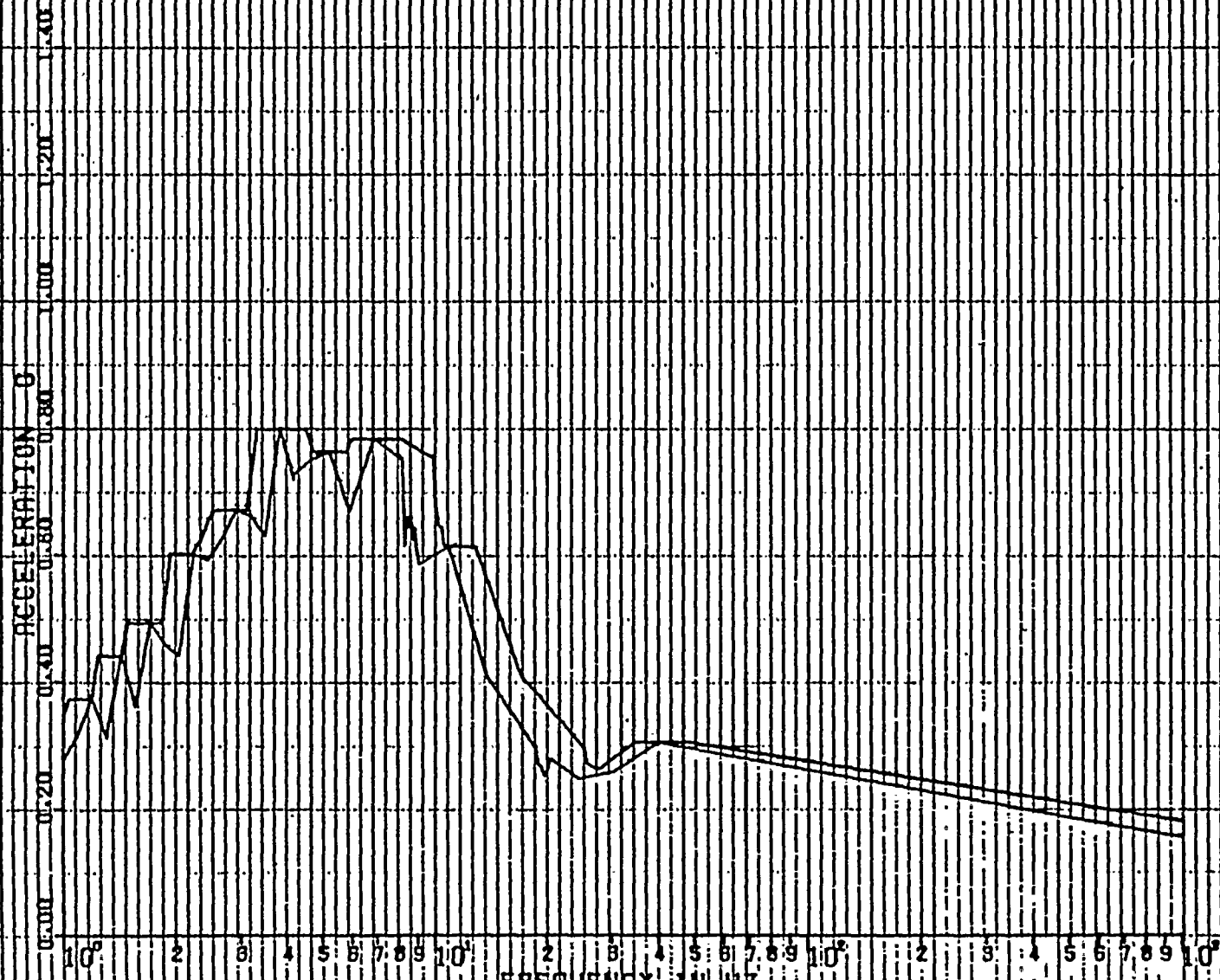
SPECTRA VER 01 LEV 08 SSE 18 JUL 1983

NIAGARA MOHAWK-NINE MILE POINT 2 - CALC-12177-MM(C)-MS-1418 REV(1)

RRS OF ACCL-NORTH ELECT TUNNEL ROOF,ELEVATION 254.0 JOB 2554

PEAK SPREAD >-15%

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



REF 1

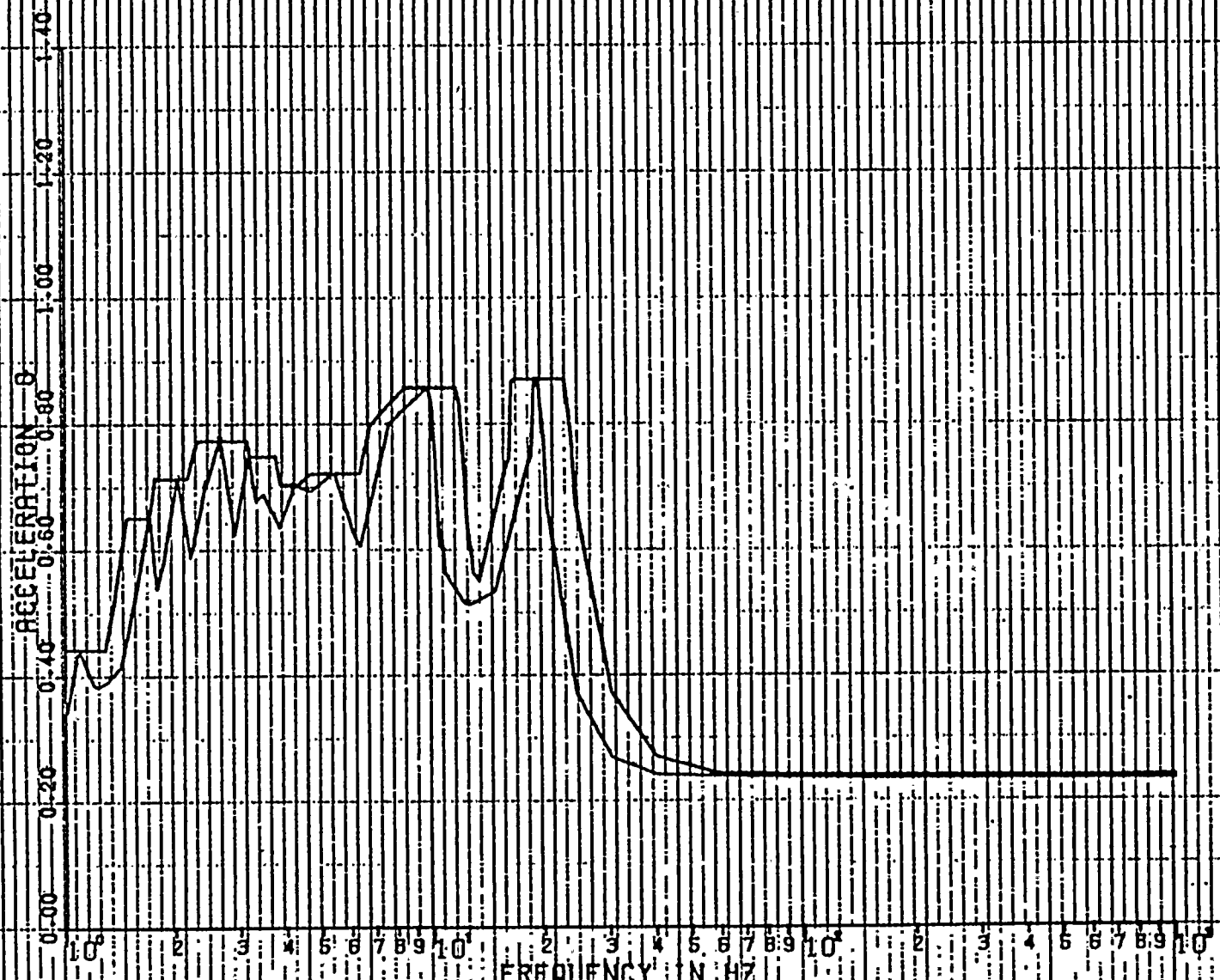
PSPECTRA VER 01 LEV 09 SSC 20 JUL 1983

NIAGARA MOHAWK-NINE MILE POINT 2 - CALC.12177-NMIC1-MS-1418 REV11

RRS OF ACC.-NORTH ELECT TUNNEL ROOF.ELEVATION 234.0 JOB 66

PEAK SPREAD +-15%

DISK CURVE SET NO.1 HOR DIRECTION DAMPING VALUE = 0.050



REF 1

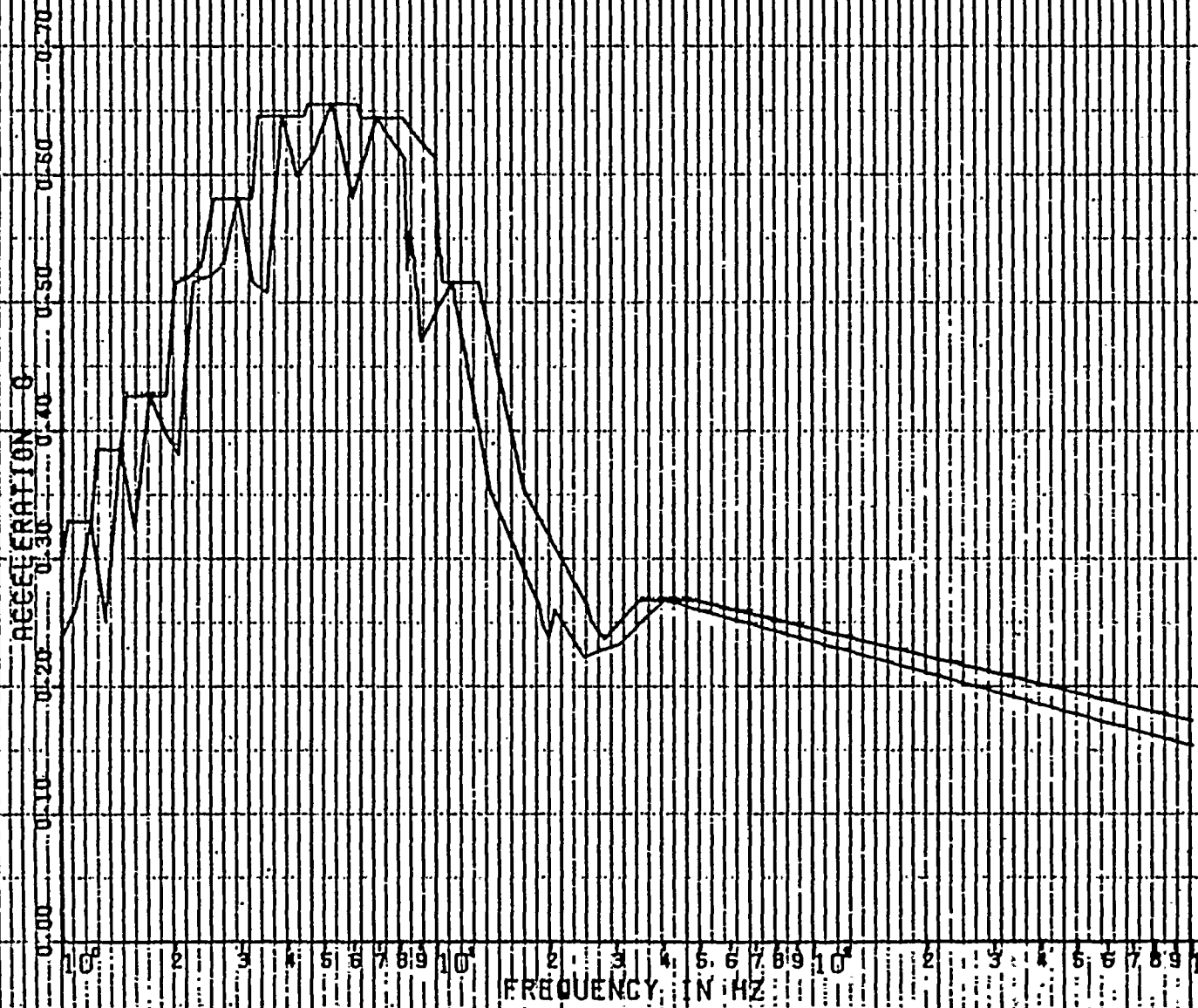
PSPECTRR VER 01 LEV 09 $ $ 4 20 JUL 1983

NIAGARA MOHAWK-NINE MILE POINT 2 - CALC.12177-NMCU-M5-1418 REV.10

RRS OF ACC.-NORTH ELECT TUNNEL ROOF.ELEVATION 234.0 JOB 65

PEAK SPREAD +-15%

DISK CURVE SET NO.1 VER DIRECTION DAMPING VALUE = 0.050



REF 1

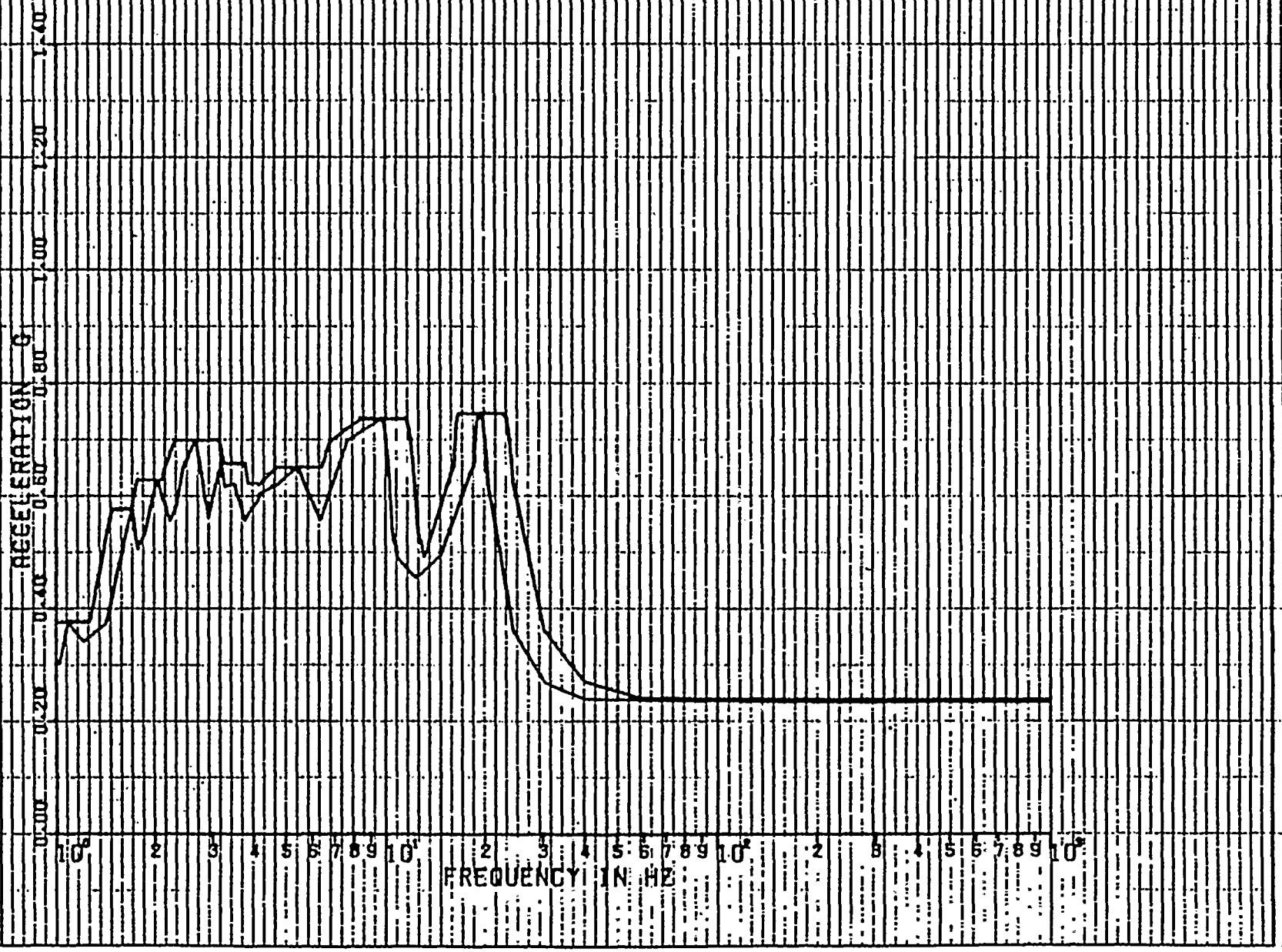
PSPECTRA VER 01 LEV 09 SSE 20 JUL 1983

NIAGARA MOHAWK-NINE MILE POINT 2 - CALC-12197-NMIC)-MS-1418 REV(1)

RRS OF ACC.-NORTH ELECT TUNNEL ROOF ELEVATION 234.0 JOB 85

PEAK SPREAD 6-15%

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



REF 1

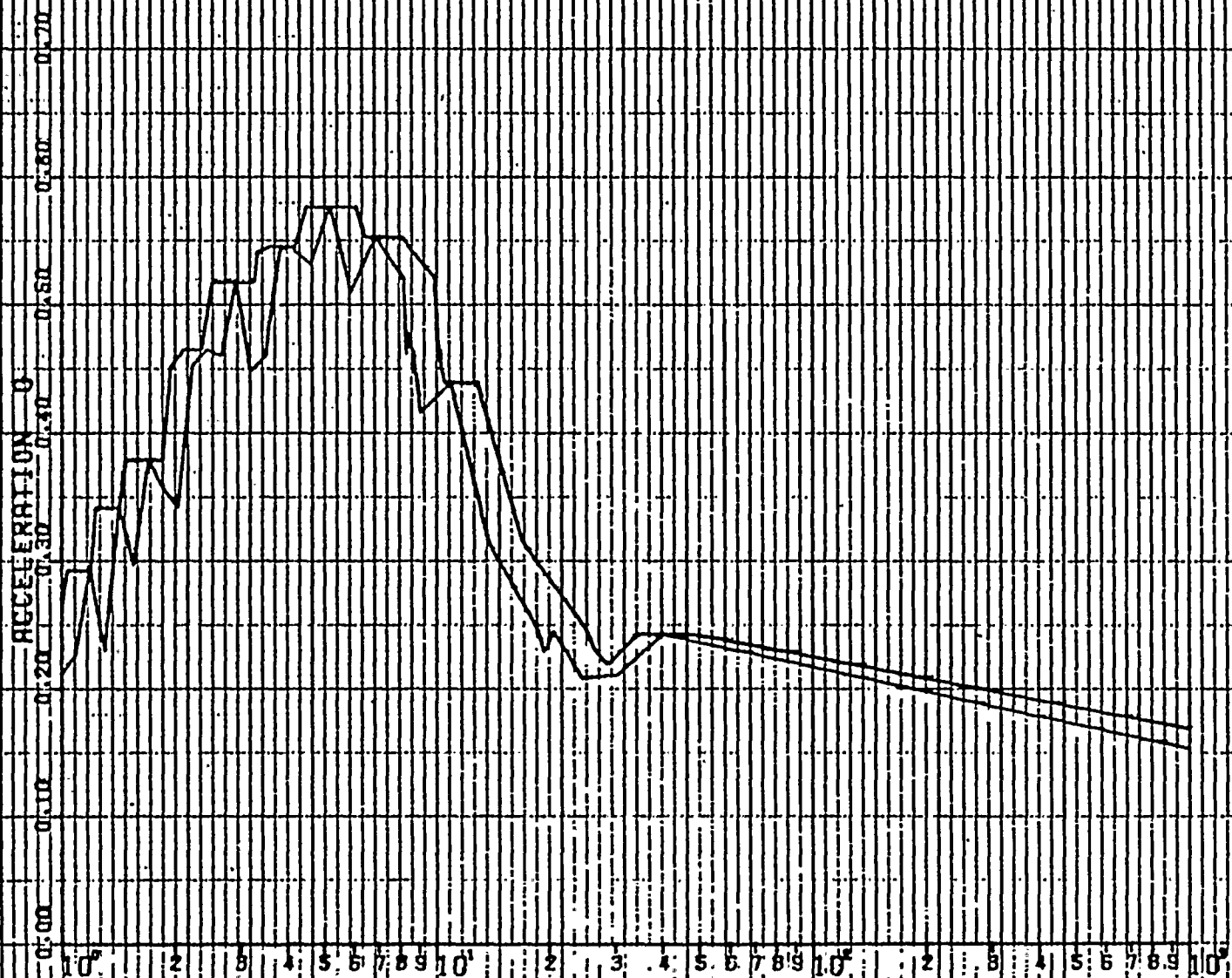
PSPECTRA VER 01 LEV 09 SSE SSE 20 JUL 1983

NIAGARA MOHAWK-NINE MILE POINT 2 - CALC.12177-NMIC3-MS-1518 REV(1)

RRS OF ACCL-NORTH ELECT TUNNEL ROOF ELEVATION 2841.0 JOB 55

PEAK SPREAD +-15%

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



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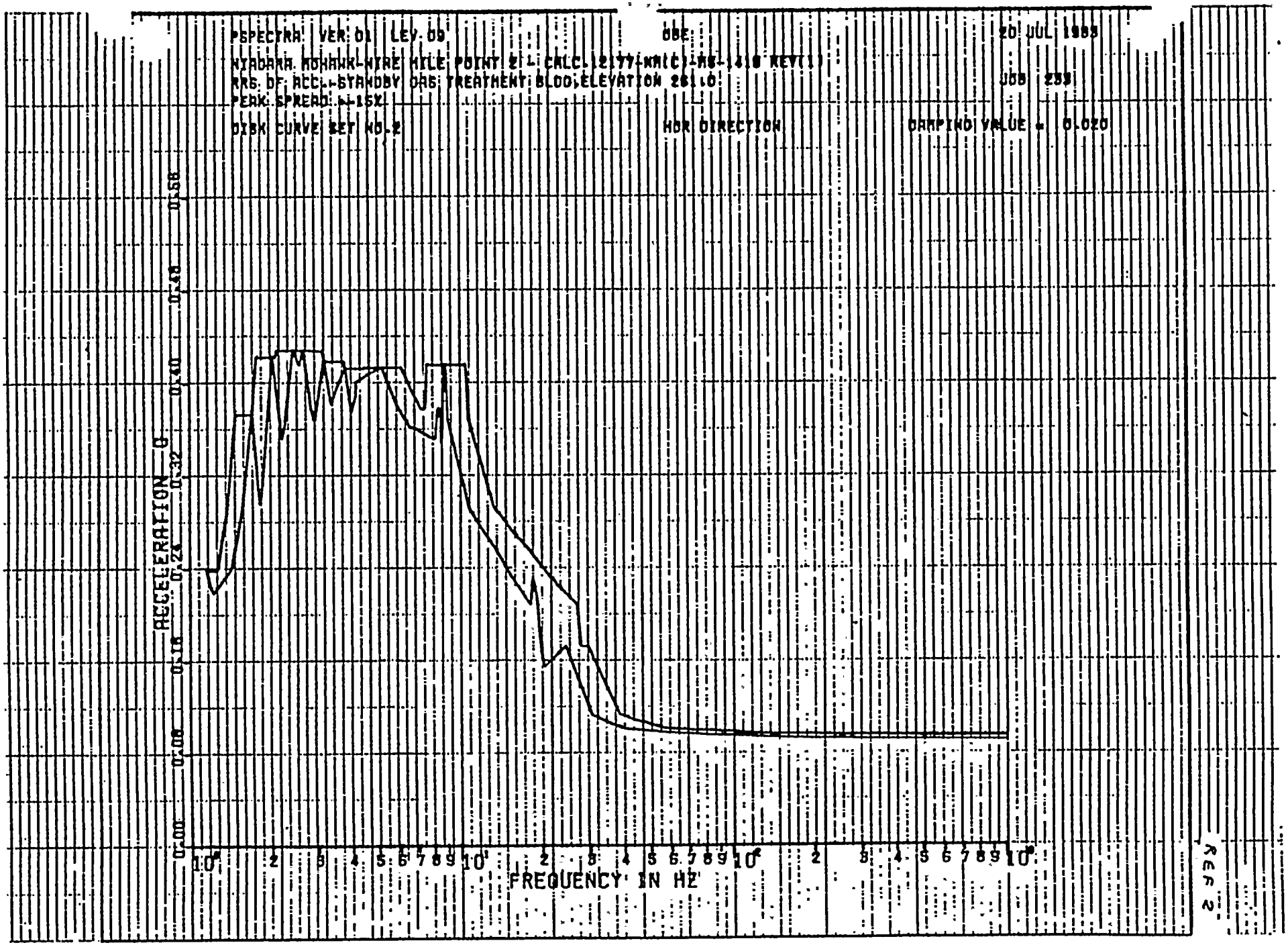
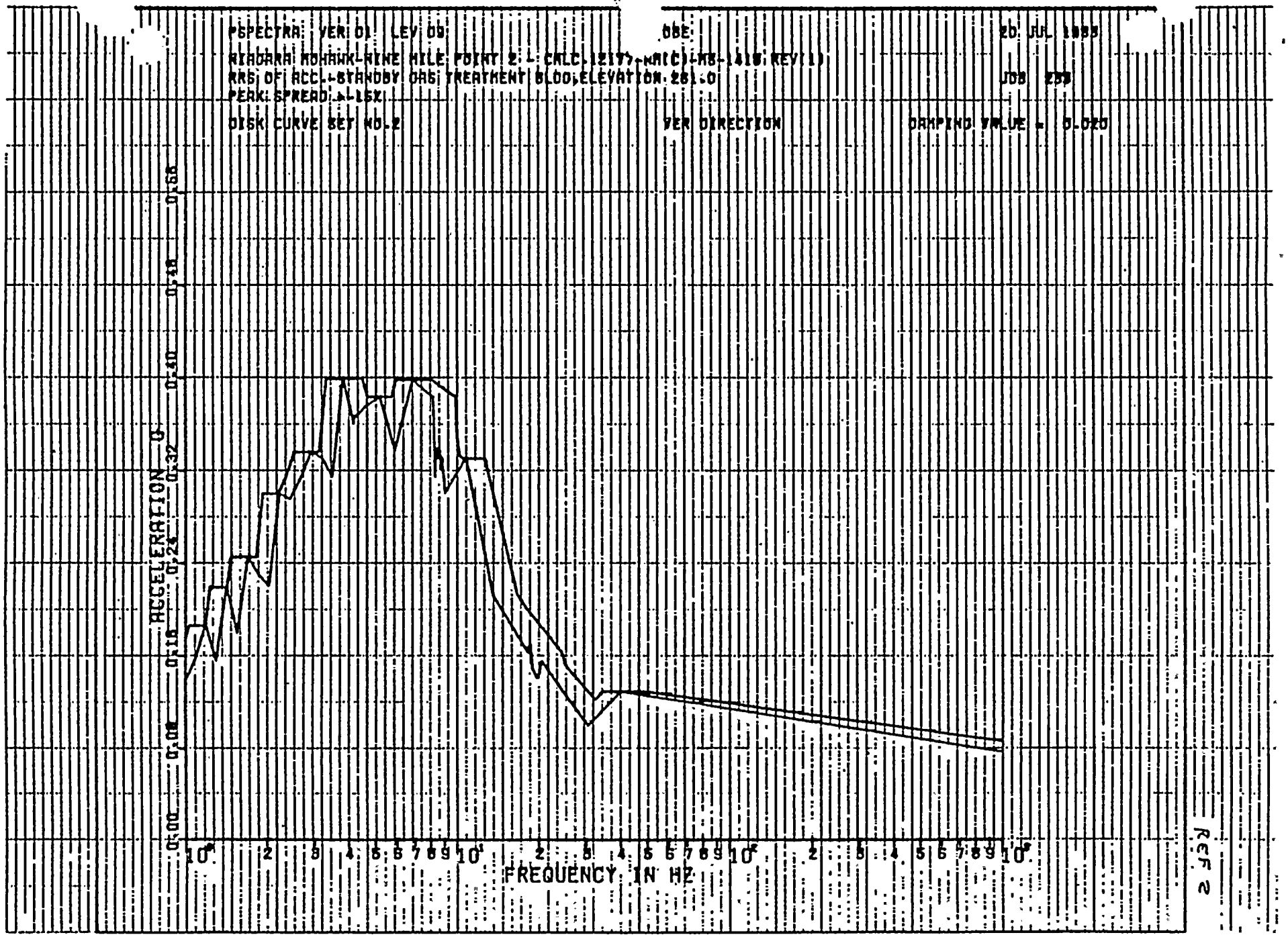

PSPECTRA VER 01 LEV 09
OBE
20 JUL 1983
HYDRAPA MOHAWK-WIRE MILE POINT 2 L CALC.12177-NA(C)-MS-418 REV(1)
RRS OF ACCL-STANDBY DRS TREATMENT BLDG ELEVATION 261.0
JOB 253
PEAK SPREAD 11.15%
DISK CURVE SET NO.2
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.08
0.16
0.24
0.32
0.40
0.48
0.56
FREQUENCY IN HZ
REF 2


PSPECTRA VER 01 LEV 09
OBE
20 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC.1217>-MA(C)-MS-1418 REV(1)
RRS OF ACC.-STANDBY GAS TREATMENT BLDG.ELEVATION.261.0
JOB 233
PEAK SPREAD +-15%
DISK CURVE SET NO.2
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.08
0.16
0.24
0.32
0.40
0.48
0.56
FREQUENCY IN HZ
REF 2

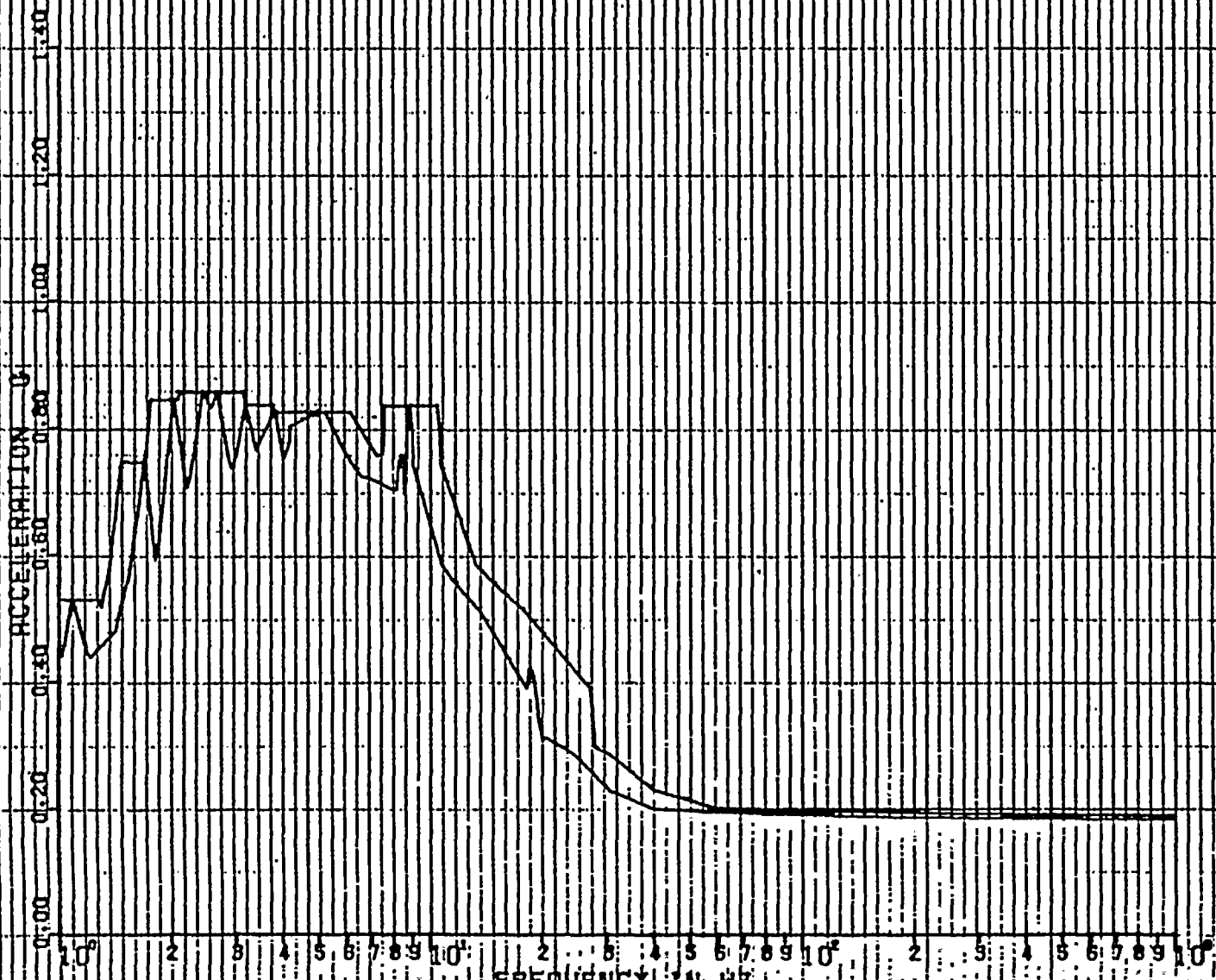
PSPECTRA VER 01 LEV 09 SSG 15 JUL 1989

NIAGARA MOHAWK-NINE MILE POINT 2 - CALC.12177-NMIC1-MS-1418 REV11

RMS OF ACC.-STANDBY GAS TREATMENT BLDG,ELEVATION 281.0 JOB 2884

PEAK SPREAD.+-15%

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



REF 2

SSE

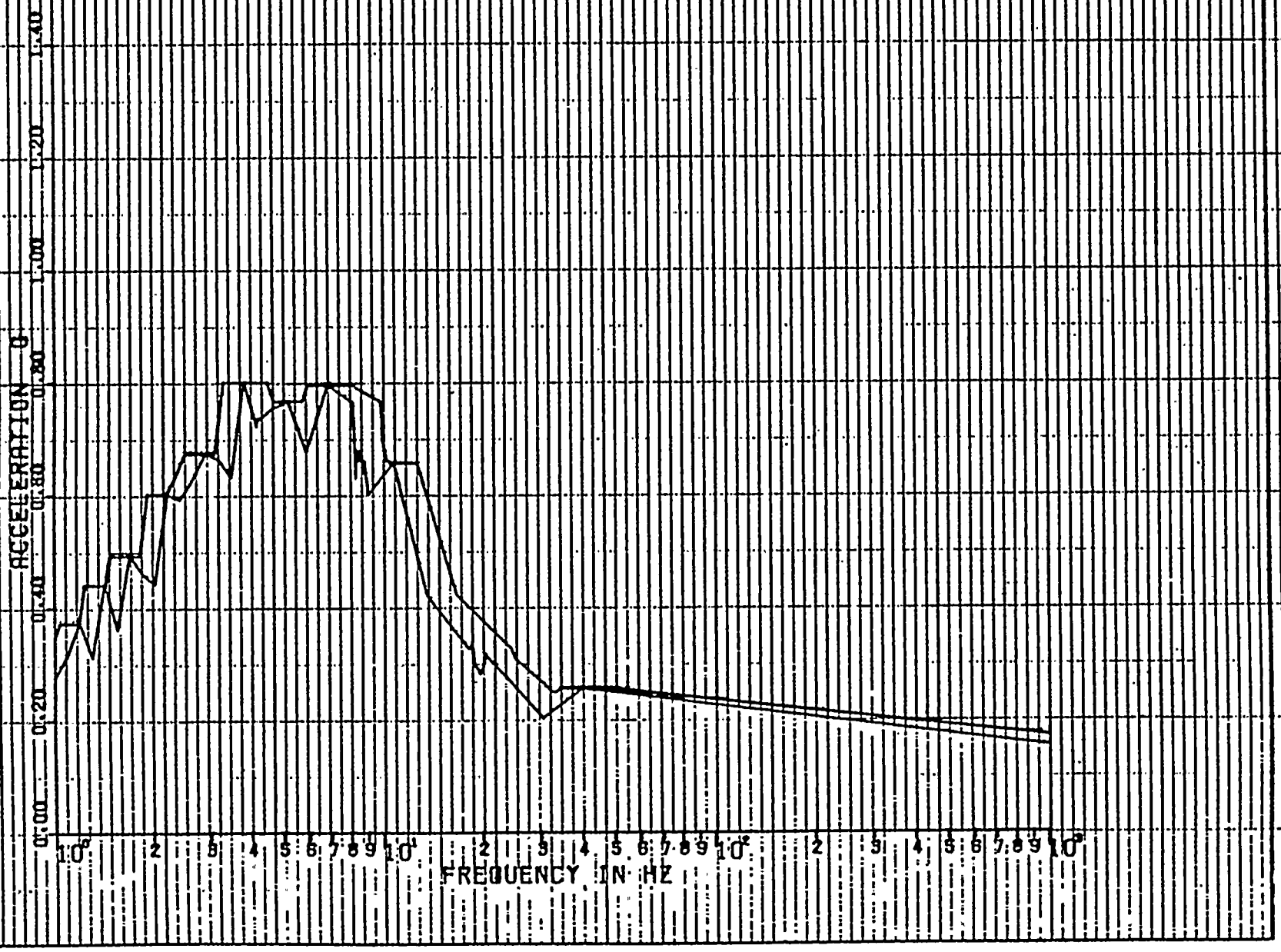
SPECTRA VER 01 LEV 09 18 JUL 1983

NIAGARA MOHAWK-NINE MILE POINT 2 - CALC.12177-RA(C)-RS-1418 REV(1)

RMS OF ACCL-STANDBY GAS TREATMENT BLDG.ELEVATION 281.0 JOB 2334

PEAK SPREAD +-15%

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



REF 2

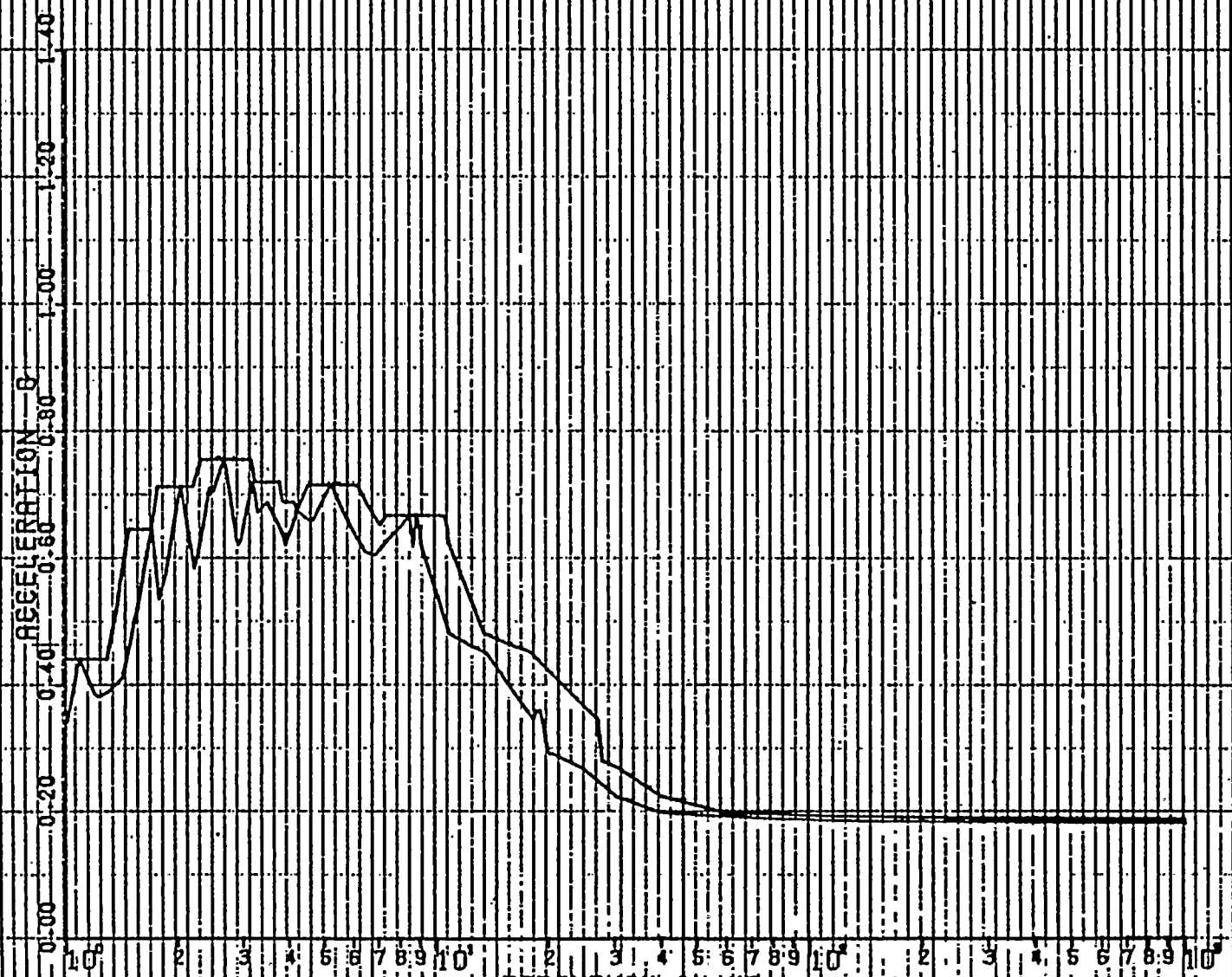
PSPECTRA VER 01 LEV 09 SGE 20 JUL 1985

NIAGARA MOHAWK-NINE MILE POINT 2 - CALC:12177-NMCO-MS-1418 REV:10

RRS OF ACC.-STANDBY GAS TREATMENT BLDG.ELEVATION 261.0 JOB 85

PEAK SPREAD +-15%

DISK CURVE SET NO.2 HOR DIRECTION DAMPING VALUE = 0.050



REF 2

PSPECTRA VER 01 LEV 09 SSE 20 JUL 1983

NIAGARA MOHAWK-NINE MILE POINT 2 - CALC.12177-MMCI-MS-1418 REV(1)

RRS OF ACC.-STANDBY GAS TREATMENT BLDG.ELEVATION 261.0 JOB 85

PEAK SPREAD = 1.57

DISK CURVE SET NO.2 VER DIRECTION DAMPING VALUE = 0.030

REF 2

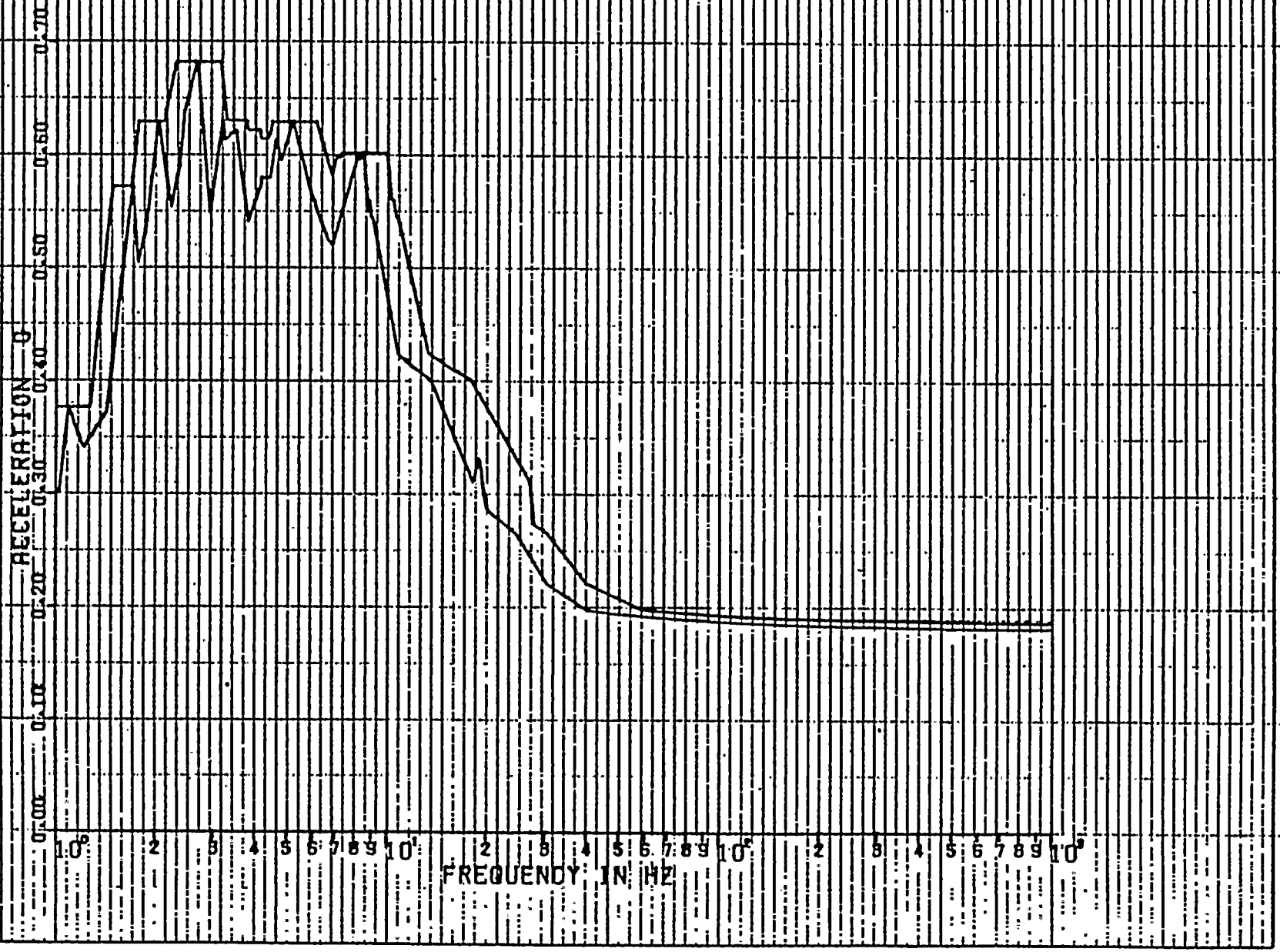
PSPECTRA VER 01 LEV 09 SSE 20 JUL 1988

NIAGARA MOHAWK-NINE MILE POINT 2 - CALC.12177-NM(C)-M6-1418 REV(1)

ARS OF ACC.-STANDBY GAS TREATMENT BLDG.ELEVATION 261.0 JOB 85

PEAK SPREAD +-15%

DISK CURVE SET NO.2 HOR DIRECTION DAMPING VALUE = 0.040



REF 2

PSPECTRA VER 01 LEV 08 SGE 20 JUL 1985

MOHAWK-NINE MILE POINT 2 - CALC.12179-MA(C)-MS-1418 REV(1)

RRS OF ACC.-STANDBY GAS TREATMENT BLDG.ELEVATION 261.0 JOB 85

PEAK SPREAD 4-15%

DISK CURVE SET NO.2 VER DIRECTION DAMPING VALUE = 0.040

REF 2

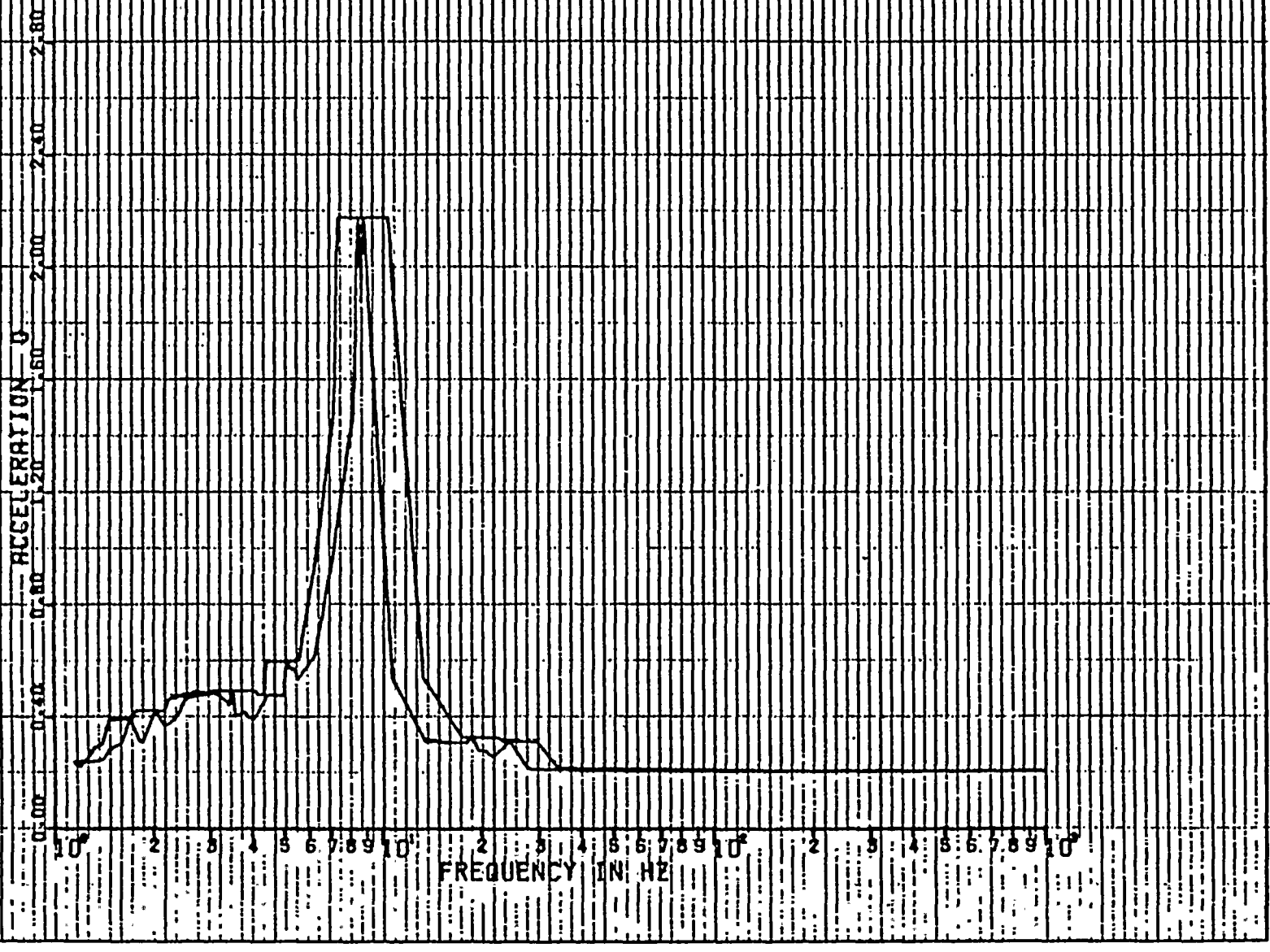
PSPECTRA VER 01 LEV 09 OBE 20 JUL 1983

AIRDATA MOHAWK-WIRE MILE POINT 2 - CALC(2177-RM(C)-RS-1418 REV(1)

RMS OF ACCL-STANDBY DAS TREATMENT BLDG ELEVATION 286.0 JOB 255

PEAK SPREAD 4-15%

DISK CURVE SET NO.3 HOR DIRECTION DAMPING VALUE = 0.020



REF 3

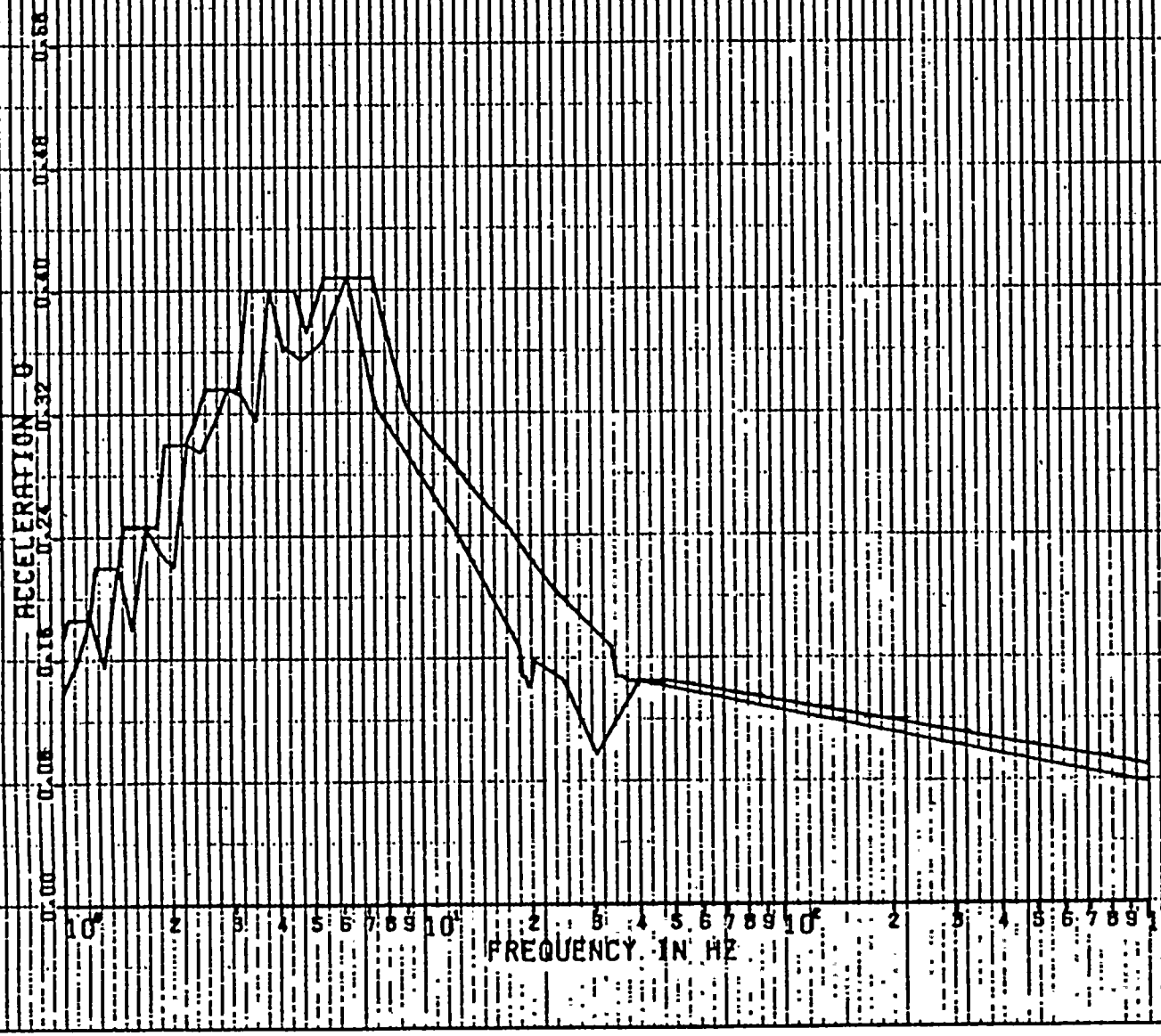
PSPECTRA VER 01 LEV 00 OBE OBE 20 JUL 1983

HIROHAMA MOHAWK-NINE MILE POINT 2 - CALC12177-MM(C)-MS-1410 REV(1)

RRS OF ACC.-STANDBY GAS TREATMENT BLDG.ELEVATION 286.0 JOB 233

PEAK SPREAD 6-15%

DISK CURVE SET NO.3 VER DIRECTION DAMPING VALUE = 0.020



REF 3

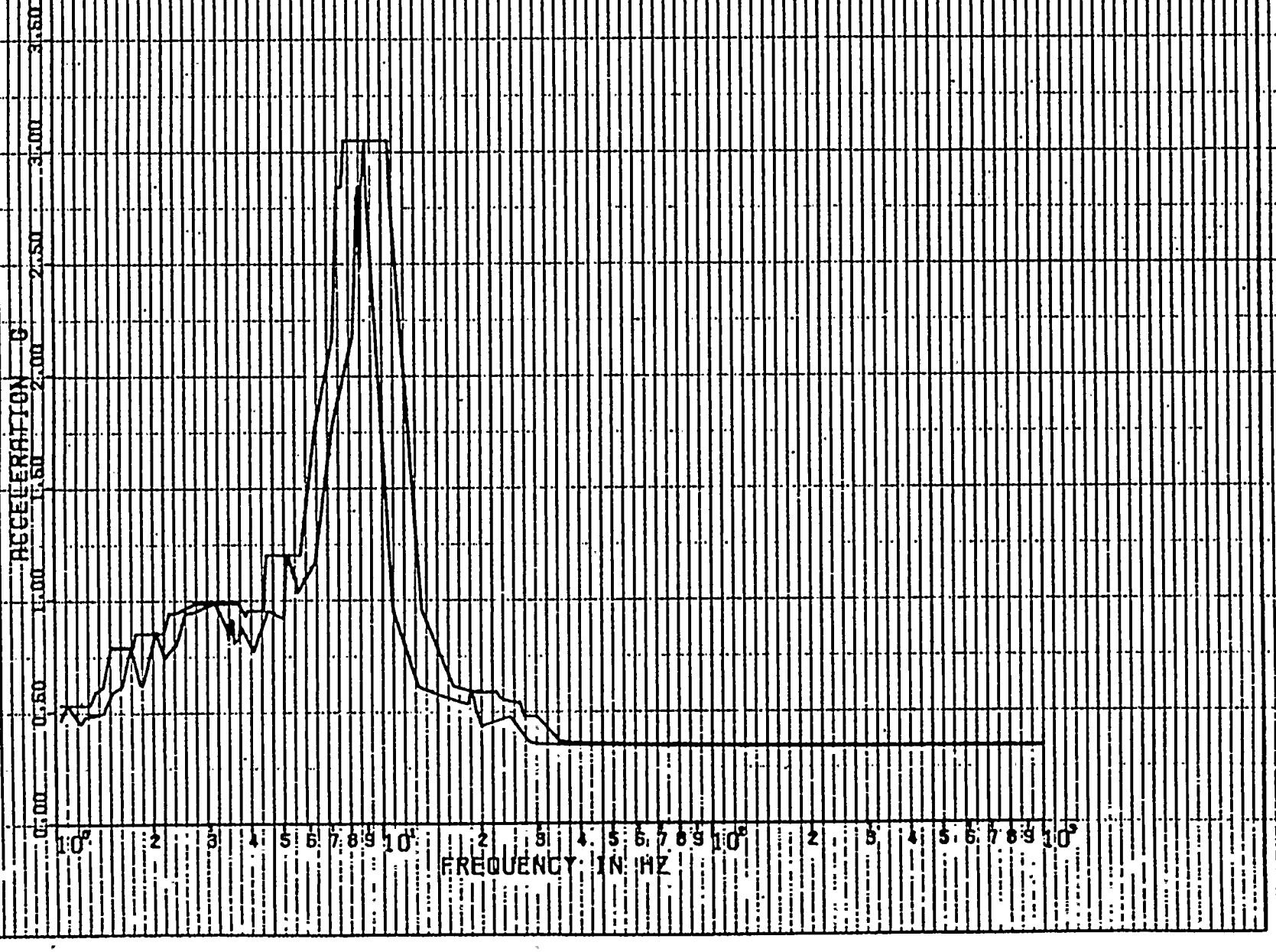
PSPECTRA VER 01 LEV 08 SSG 18 JUL 1983

NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-MM(C)-MS-1410 REV(1)

RRS OF ACC.-STANDBY GAS TREATMENT BLDG.ELEVATION 288.0 JOB 2334

PEAK SPREAD +-15%

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



REP 3

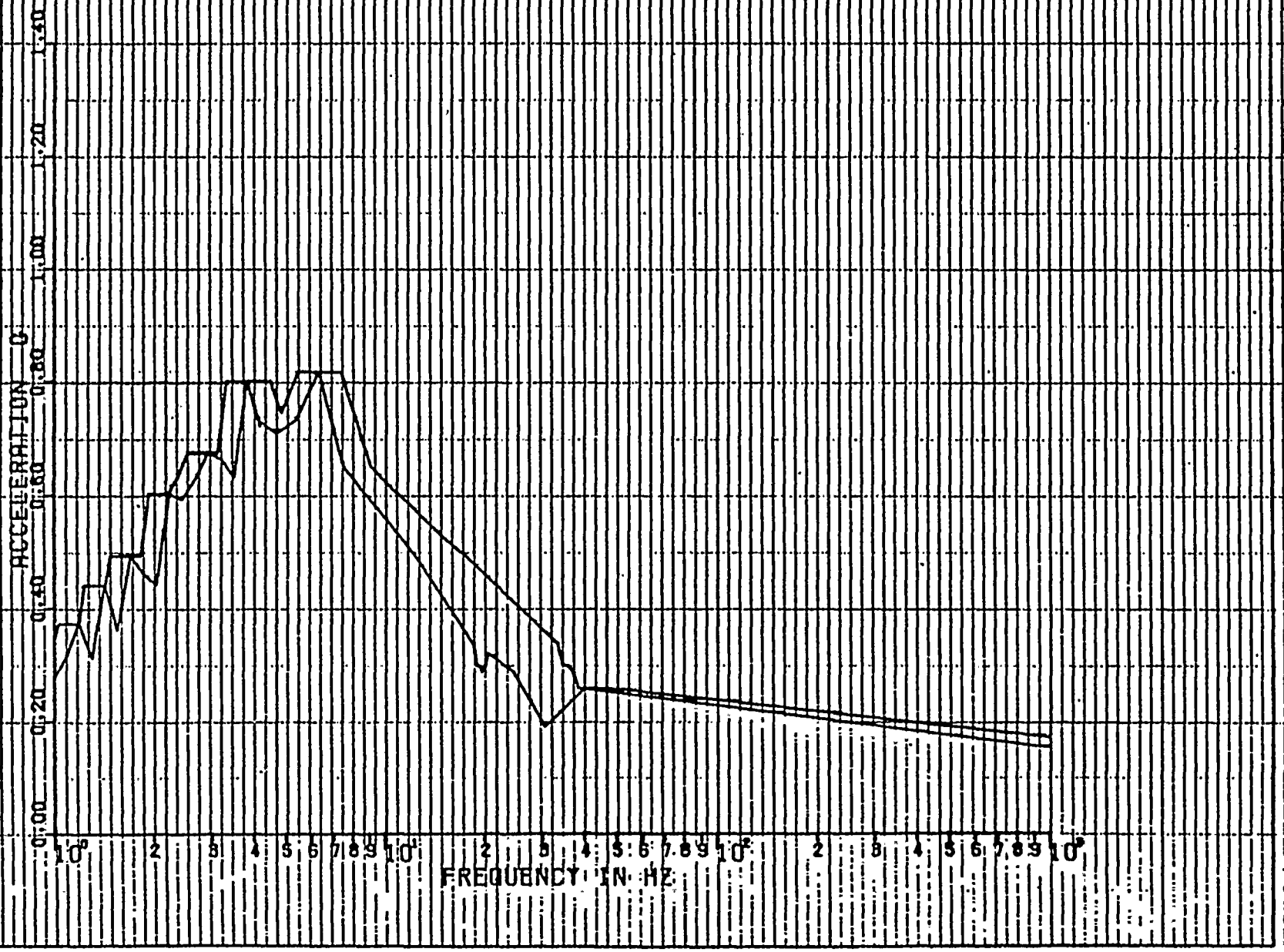
PSPECTRA VER 01 LEV 09 SSE 18 JUL 1988

NIAGARA MOHAWK-NINE MILE POINT 2 - CALC(2177-RM(C)-MS-1418 REV(1)

RMS OF ACCL.-STANDBY GAS TREATMENT BLDG ELEVATION 286.0 JOB 2594

PEAK SPREAD +-15%

DISK CURVE SET NO.3 VER DIRECTION DAMPING VALUE = 0.020



REF 3

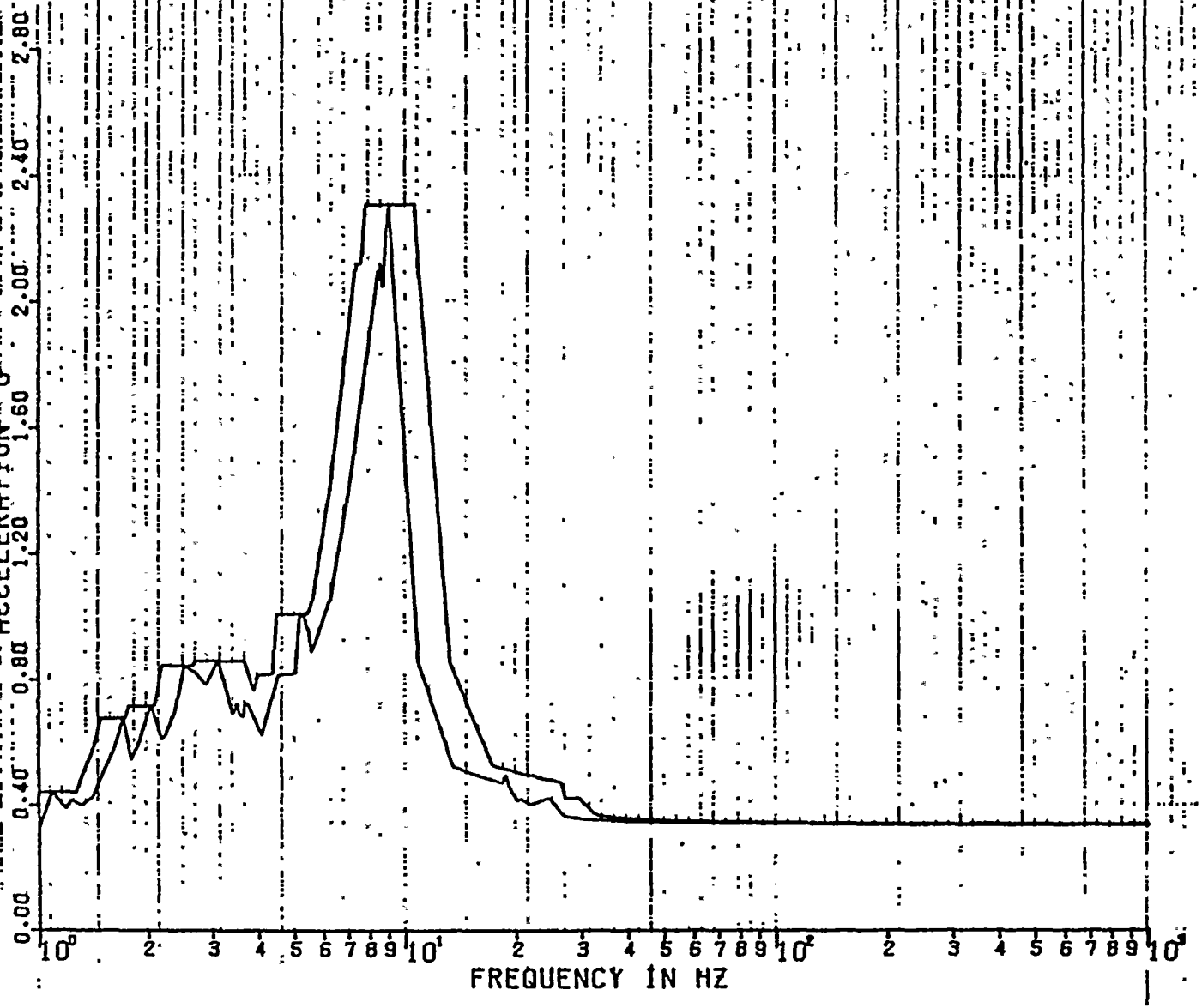
PSPECTRA VER 01 LEV 09 SSE 20 JUL 1983

NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-NM(C)-M5-141B REV(1)

RRS OF ACC.-STANDBY GAS TREATMENT BLDG.ELEVATION 286.0 JOB 65

PEAK SPREAD +-15%

DISK CURVE SET NO.3 HOR DIRECTION DAMPING VALUE = 0.030



REF 3

FSPECTRA VER 01 LEV 09 GGE 20 JUL 1985

NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-NM1C1-M6-1415 REV(1)

RRS OF ACC.-STANDBY GAS TREATMENT BLDG.ELEVATION 286.0 JOB 85

PEAK SPREAD +-15%

DISK CURVE SET NO.3 VER DIRECTION DAMPING VALUE = 0.050

REF 3

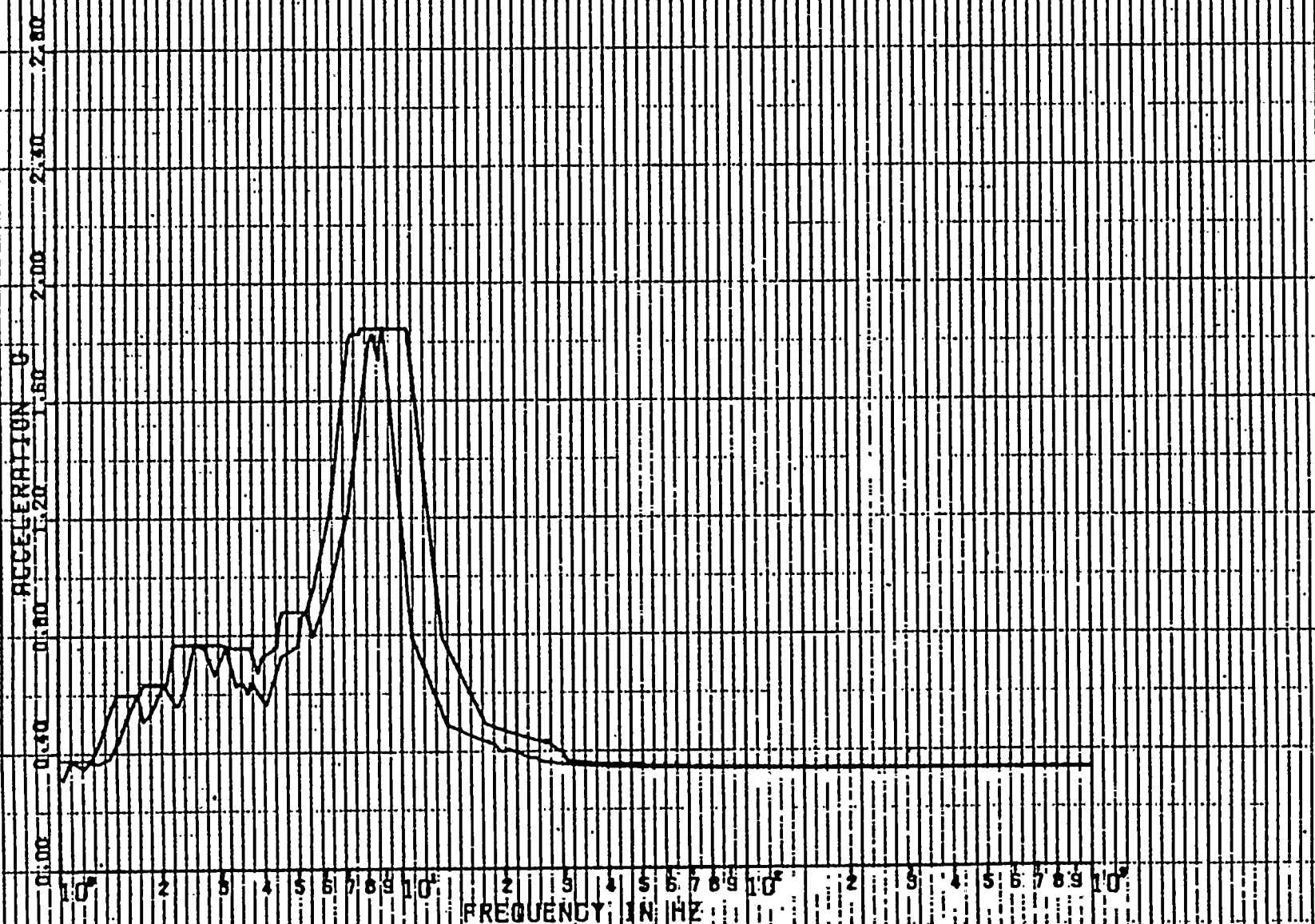
PSPECTRA VER 01 LEV 09 SSE 20 JUL 1985

NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-NMIC)-M3-1318 REV13

RRS OF ACCL-STANDBY GAS TREATMENT BLDGELEVATION 286.0 JOB 85

PEAK SPREAD +-15%

DISK CURVE SET NO.3 HOR DIRECTION DAMPING VALUE = 0.040



REF 3

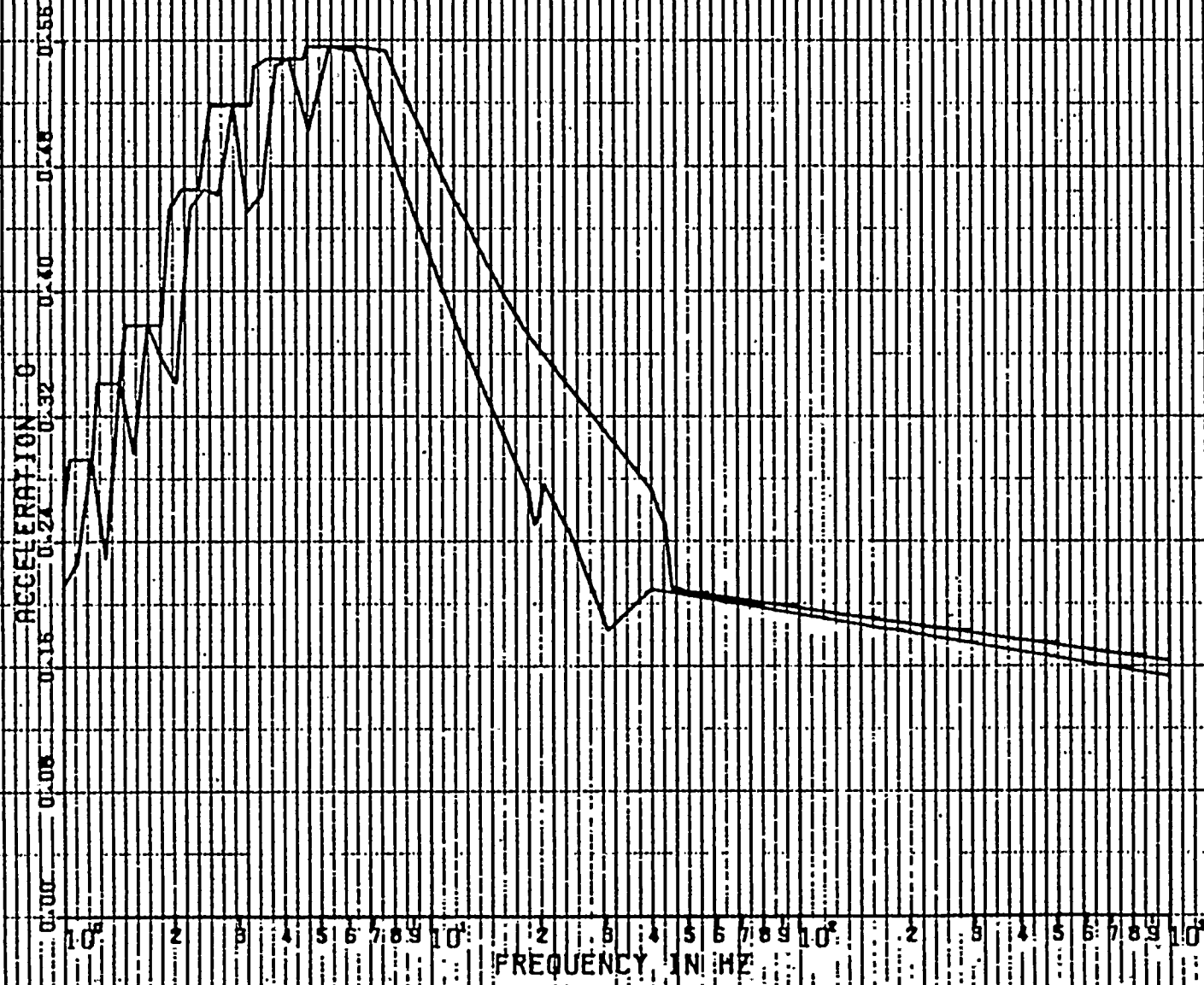
PSPECTRA : VER 01 LEV 00 SSE 20 JUL 1983

MIADARA MOHAWK-NINE MILE POINT 2 - CALC12177-MM(C)-MS-1418 REV(1)

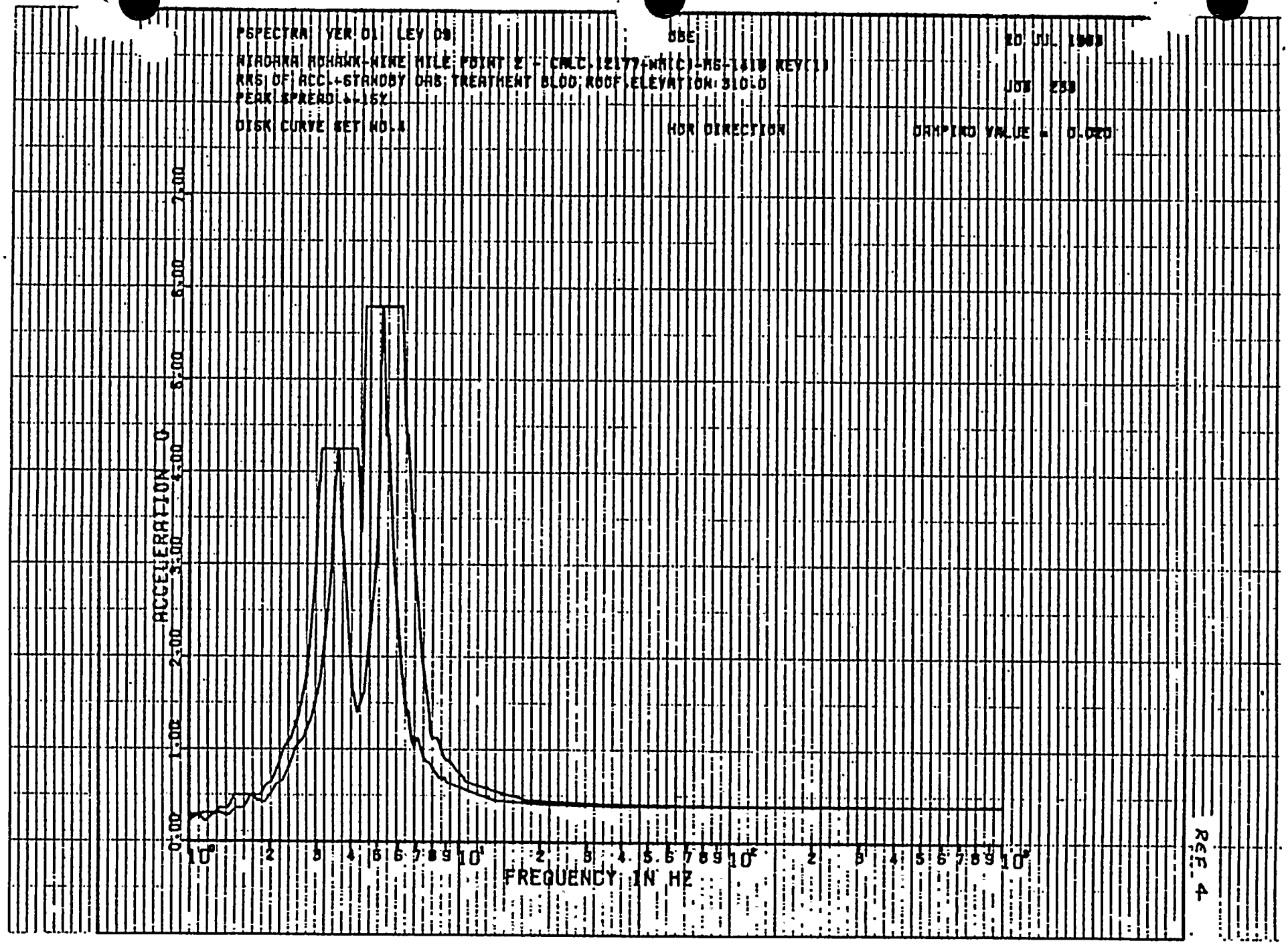
RRS OF ACC.-STANDBY GAS TREATMENT BLDG(ELEVATION 286.0 UOB 85

PEAK SPREAD +/-15%

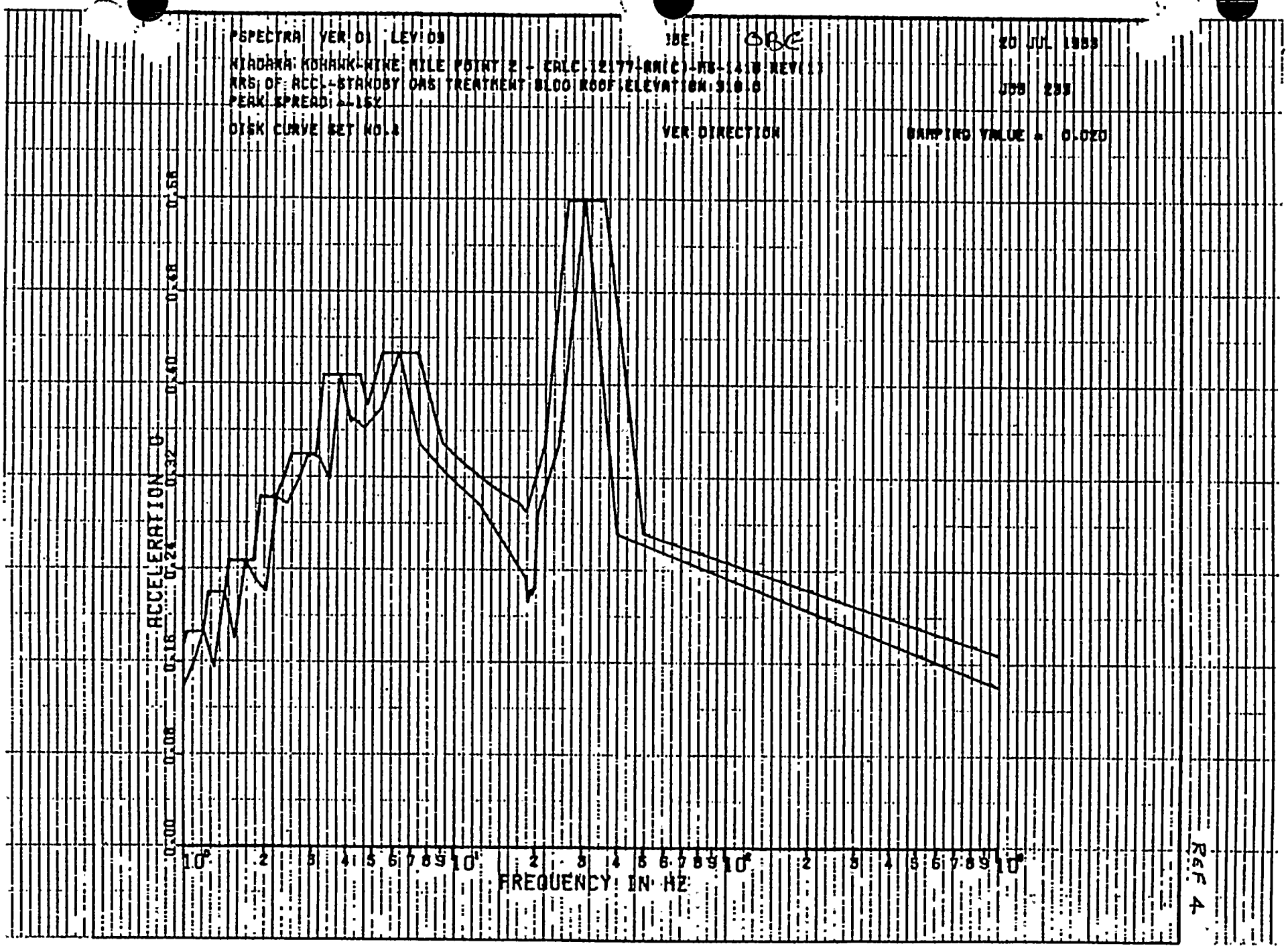
DISK CURVE SET NO.8 VER DIRECTION DAMPING VALUE = 0.040



REF 3


PSPECTRA YER 01 LEV 09
OBE
20 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC.12177-NM(C)-MS-1818 REV(1)
RMS OF ACCL+STANDBY DAB TREATMENT BLDG ROOF ELEVATION 310.0
JOB 239
PEAK SPREAD(+-15%)
DISK CURVE SET NO.1
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
1.00
2.00
3.00
4.00
5.00
6.00
7.00
FREQUENCY IN HZ

REF. 4


PSPECTRA VER 01 LEV 09
IBE
OBE
20 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC 12177-BR(C)-MS-1418 REV(1)
RRS OF RCCL-STANDBY GAS TREATMENT BLDG ROOF ELEVATION 310.0
JOB 233
PEAK SPREAD: ±15%
DISK CURVE SET NO.4
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.08
0.16
0.24
0.32
0.40
0.48
0.56
FREQUENCY IN HZ
REF 4

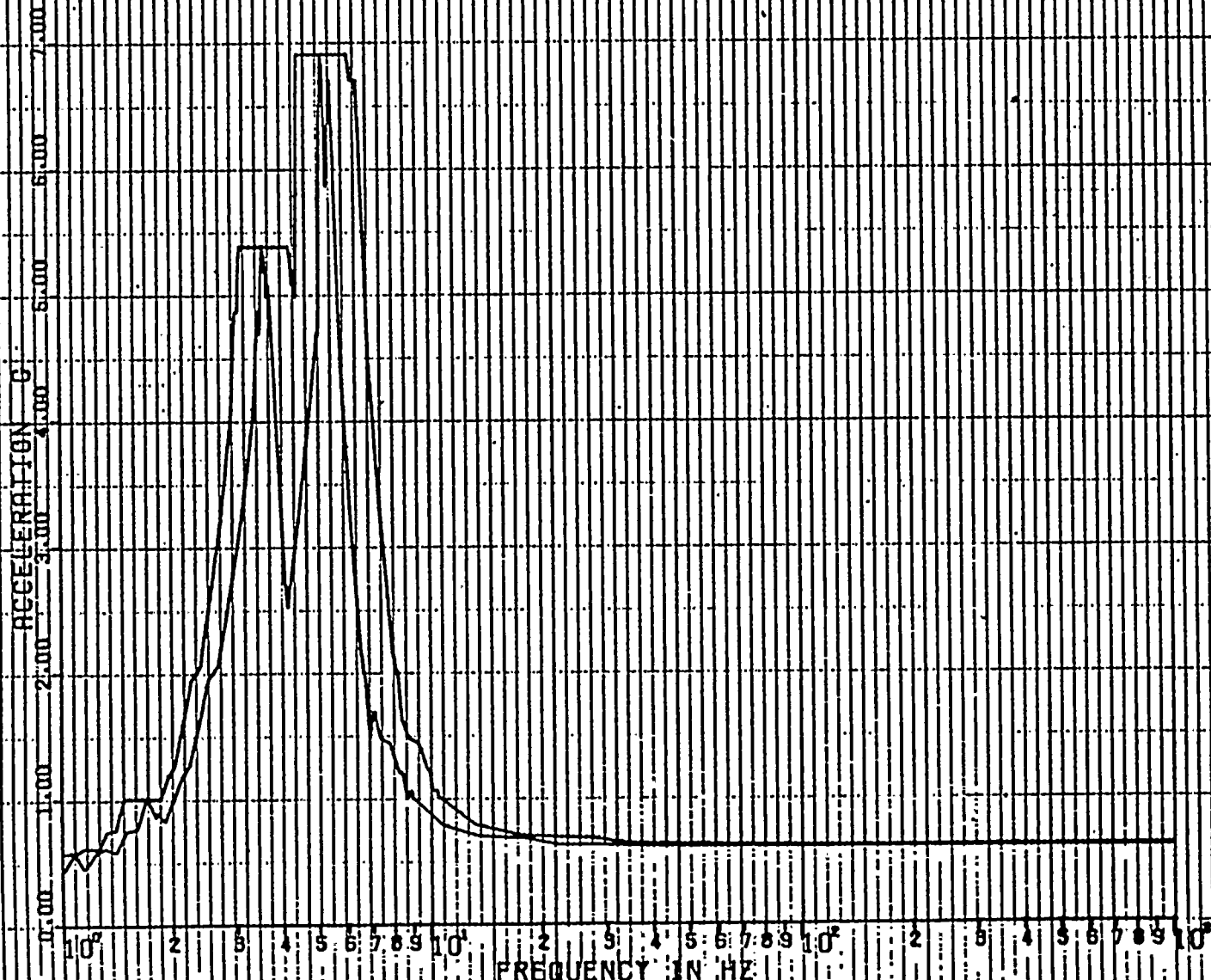
PSPECTRA VER 01 LEV 09 SSG 18 JUL 1983

NIAGARA MOHAWK-NINE MILE POINT 2 - CALC.12177-MHICI-MS-1318 REV(1)

RRS OF ACCL.-STANDBY GAS TREATMENT BLDG ROOF ELEVATION 31010 JOB 2034

PEAK SPREAD +-15%

DISK CURVE SET NO.4 HOR DIRECTION DAMPING VALUE = 0.020



REF 4

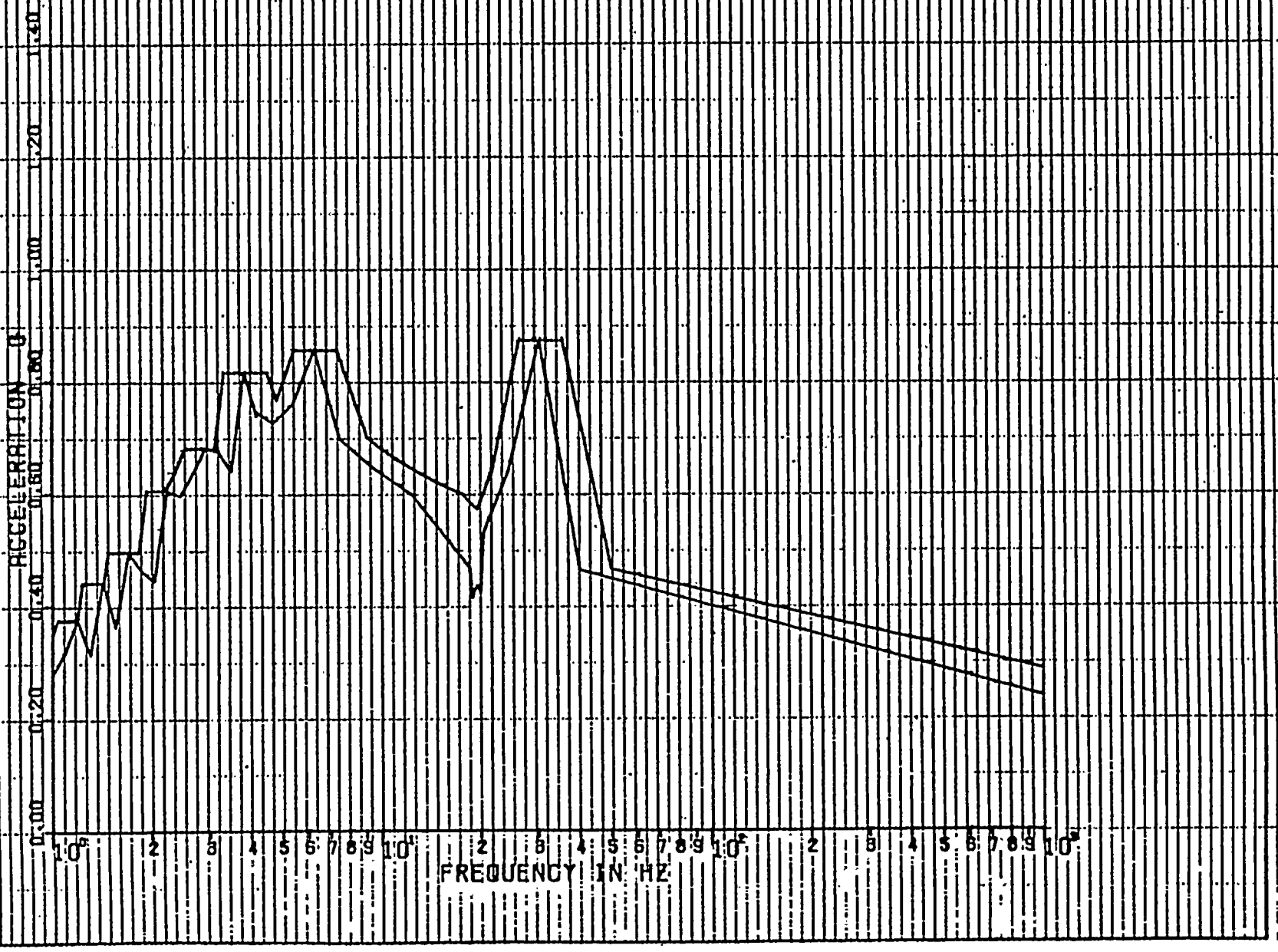
PSPECTRA VER 01 LEV 09 SSE 18 JUL 1989

NIAGARA MOHAWK-NINE MILE POINT 2 - CALC.12177-MH(C)-MS-1418 REV(1)

RMS OF ACC.-STANDBY GAS TREATMENT BLDG ROOF,ELEVATION 310.0 JOB 2034

PEAK SPREAD +-15%

DISK CURVE SET NO.4 VER DIRECTION DAMPING VALUE = 0.020



REF 4

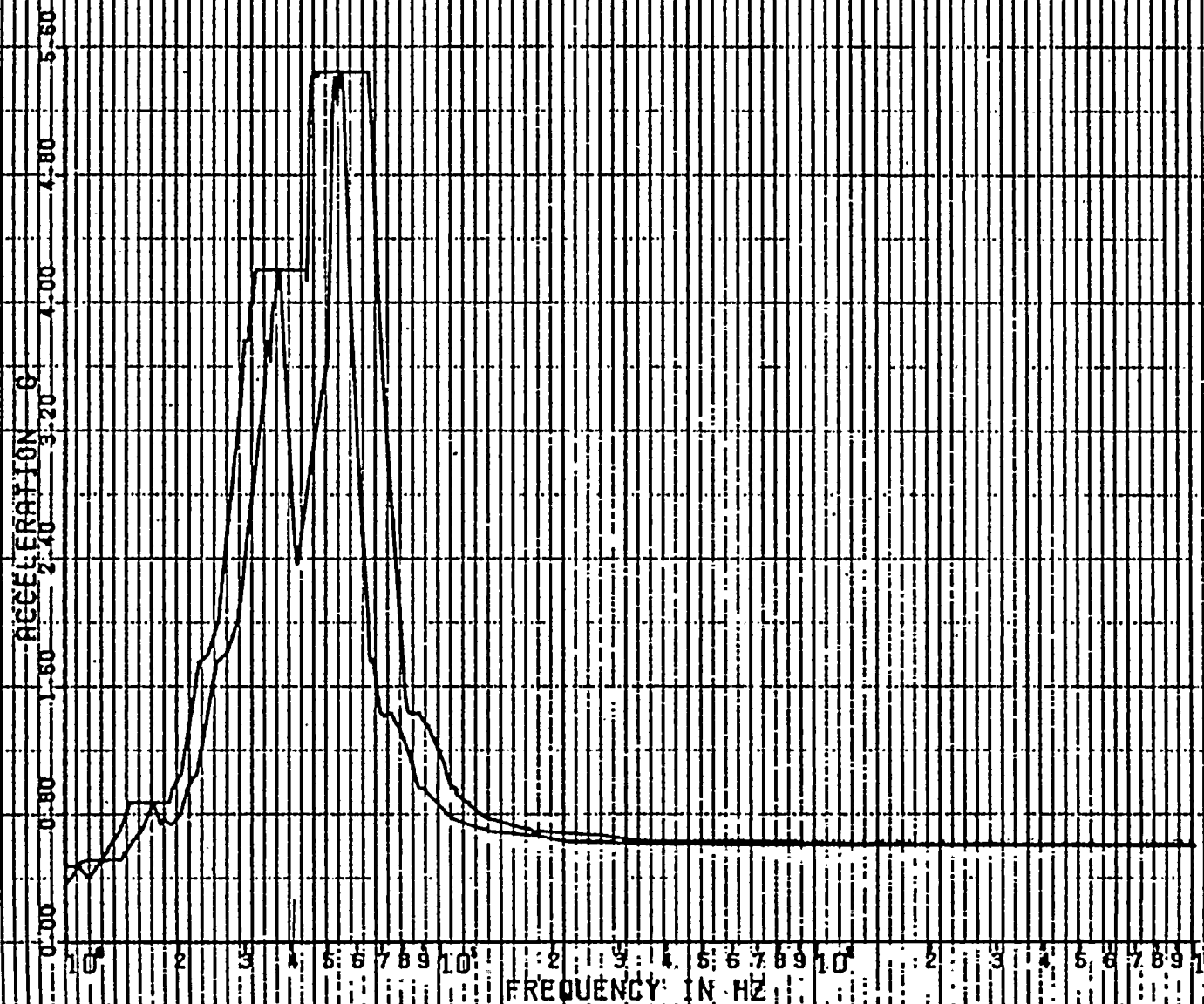
PSPECTRR VER 01 LEV 09 66E 20 JUL 1983

NIAGARA MOHAWK-NINE MILE POINT 2 - CALC.12177-MMCI-M6-1418 REV(1)

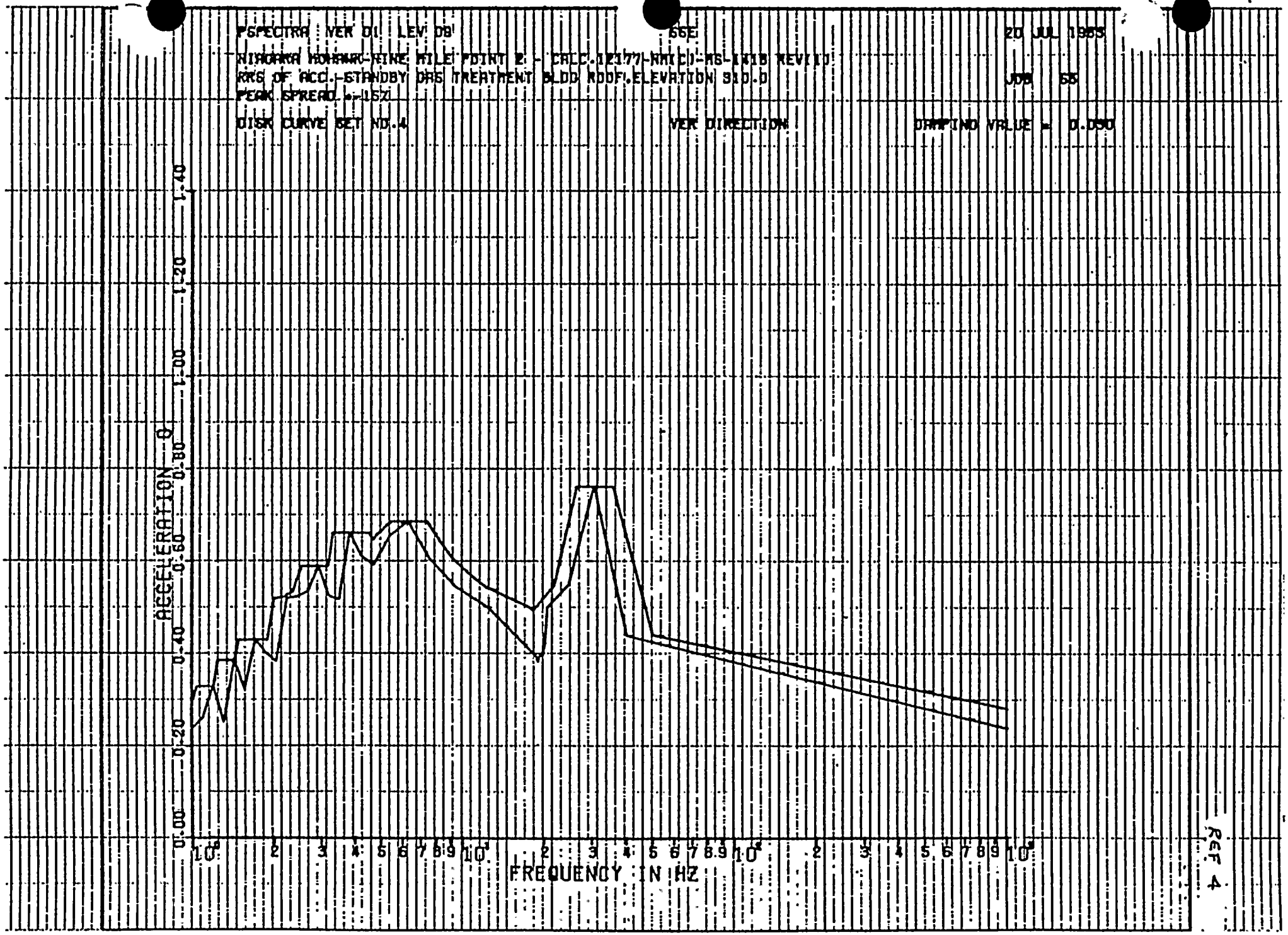
RRS OF ACC.-STANDBY DPG TREATMENT BLDG ROOF,ELEVATION 310.0 JOB 85

PEAK SPREAD +-15%

DISK CURVE SET NO.4 HOR DIRECTION DAMPING VALUE = 0.030



REF 4


FSPECTRA VER 01 LEV DB
66E
20 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC.12177-MMIC1-MS-1X18 REV(1)
RMS OF ACC.-STANDBY DRS TREATMENT BLDG ROOF.ELEVATION 310.0
JOB 66
PEAK SPREAD = 15%
DISK CURVE SET NO.4
VER DIRECTION
DAMPING VALUE = 0.050
ACCELERATION - G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
FREQUENCY IN HZ
REF 4

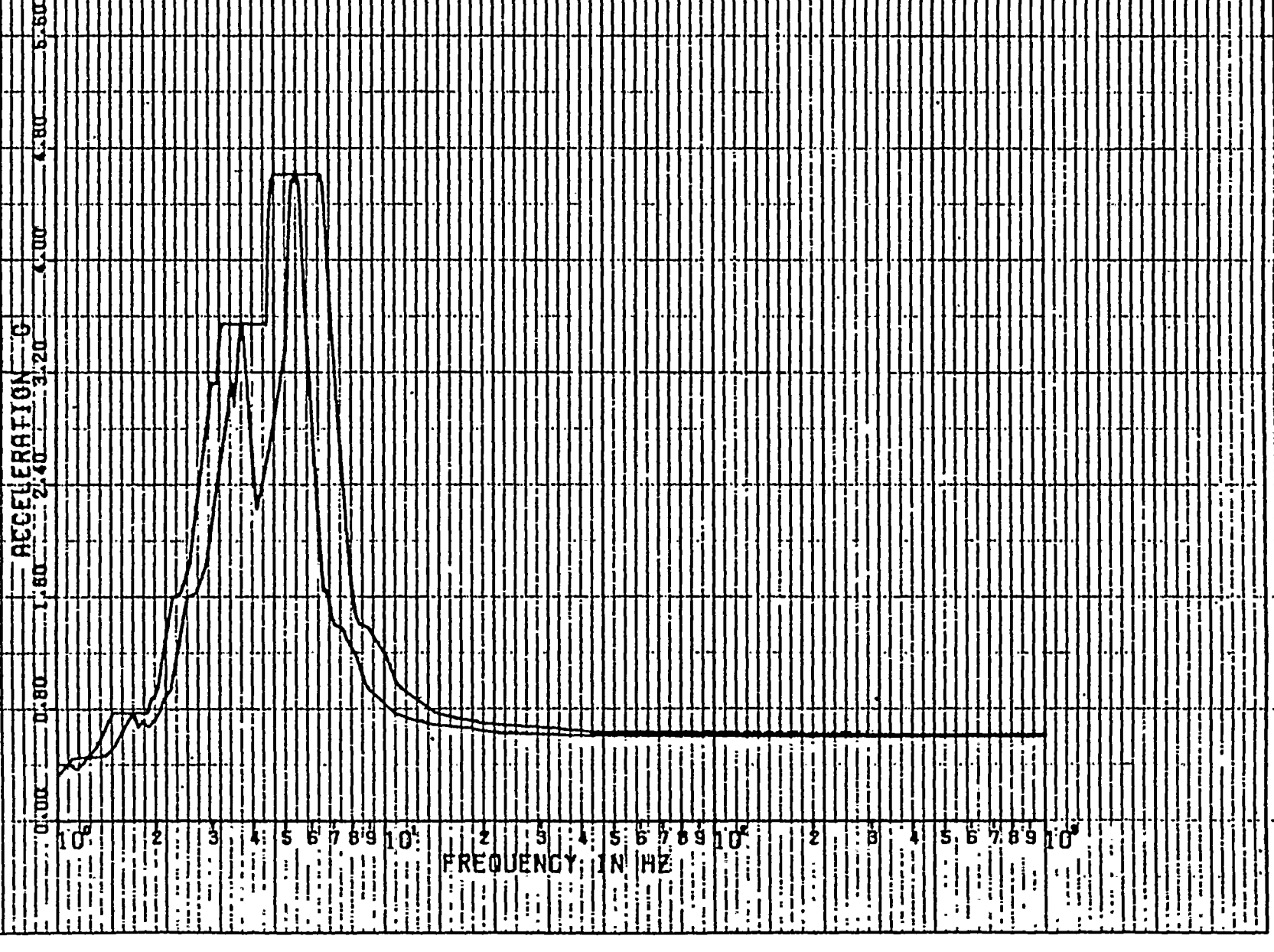
PSPECTRA VER 01 LEV 08 SSE 20 JUL 1988

NIKOARA MOHAWK-NIKE MILE POINT 2 - CALC.12177-AMICO-MS-1418 REV(1)

RRG OF ACCL.-STANDBY GAS TREATMENT BLDG ROOF.ELEVATION 310.0 JOB 85

PEAK SPREAD = 15%

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



REF 4

PSPECTRA, VER 01, LEV 09 SSE 20 JUL 1983

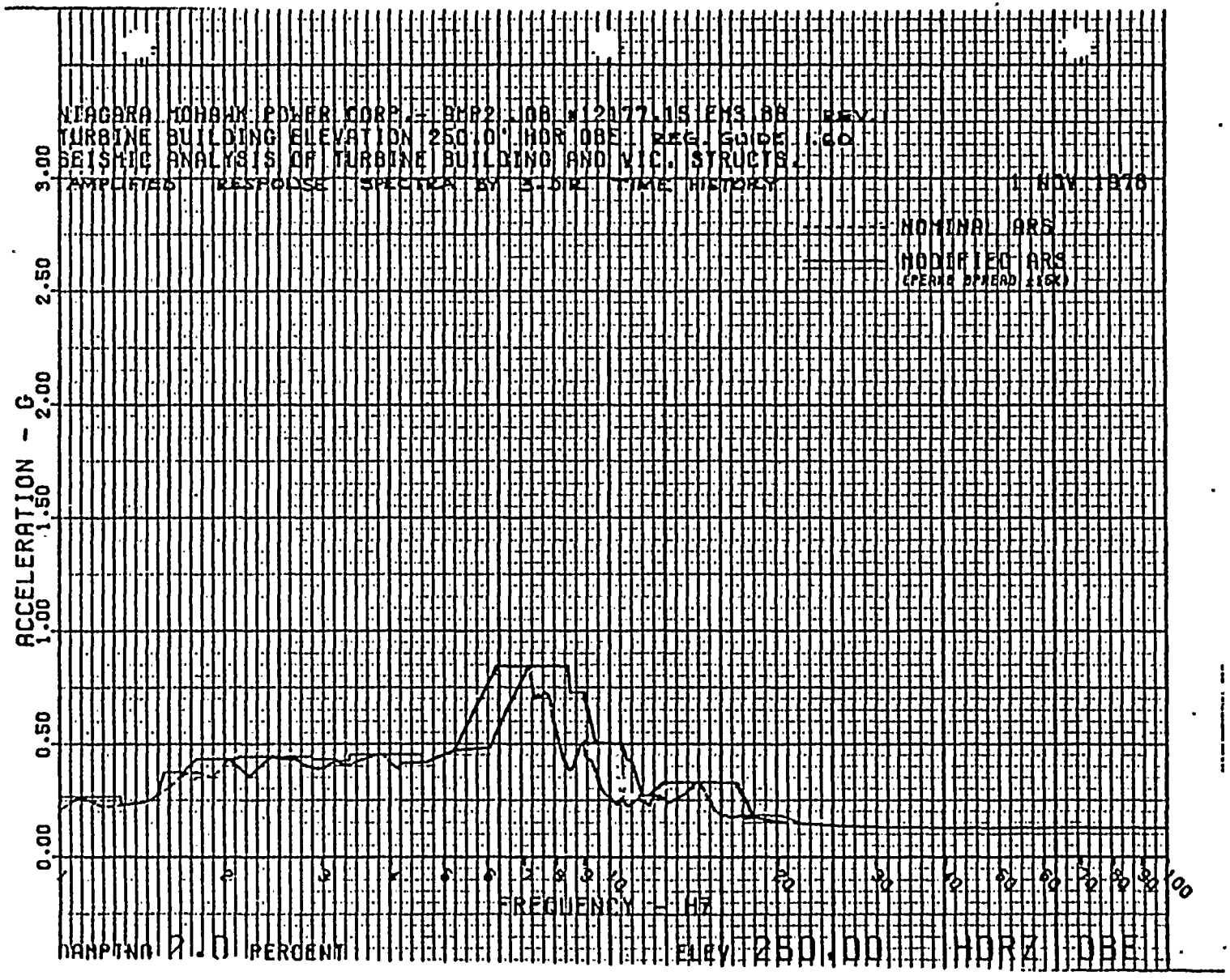
MOHAWK-NINE MILE POINT 2 - CALC.121, -RA(C)-RS-1418 REV.1

RRS OF ACCL-STANDBY GAS TREATMENT BLDG ROOF,ELEVATION 310.0 JOB 55

PEAK SPREAD 4-15%

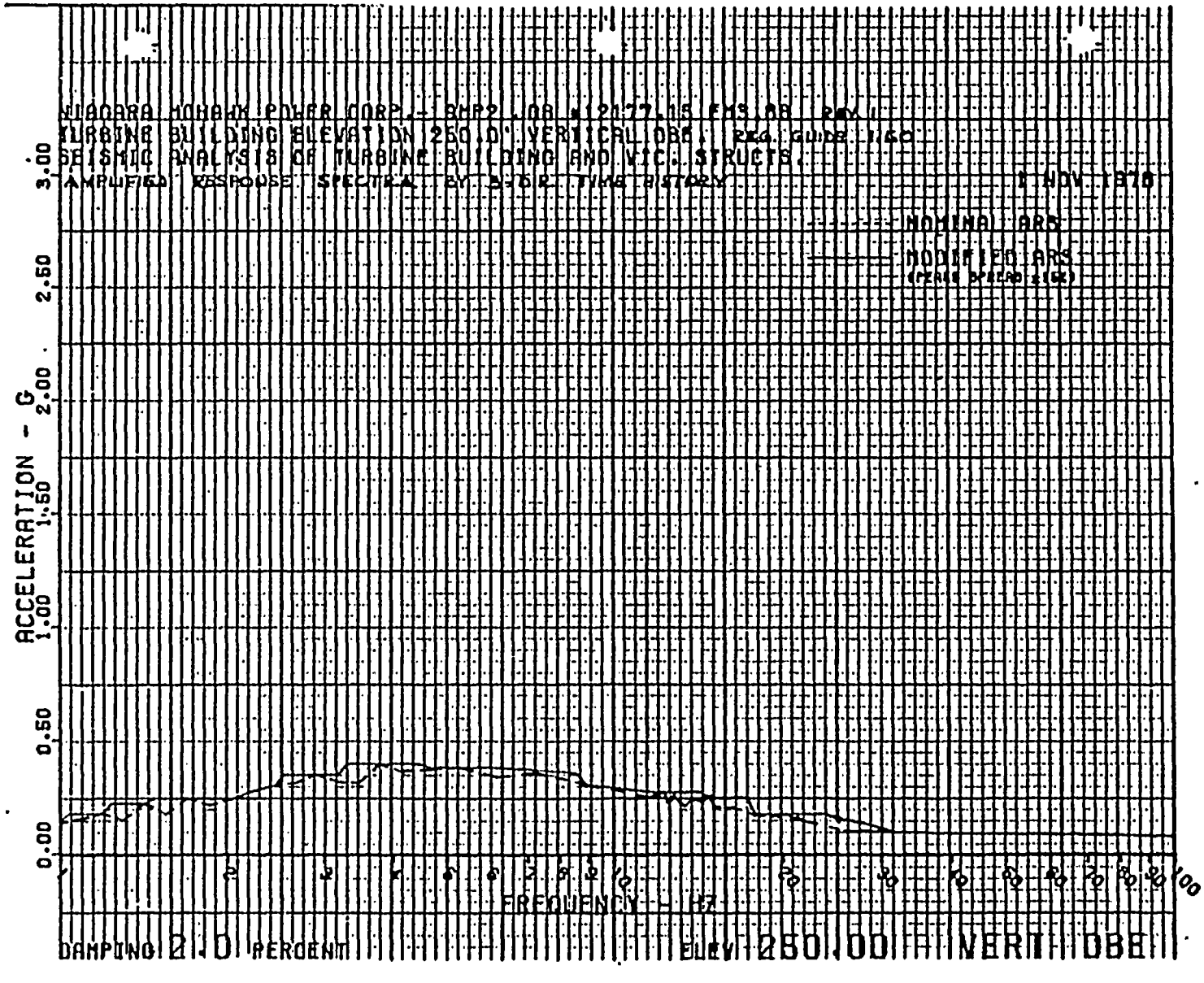
DISK CURVE SET NO.4 VER DIRECTION DAMPING VALUE = 0.040

Ref 4

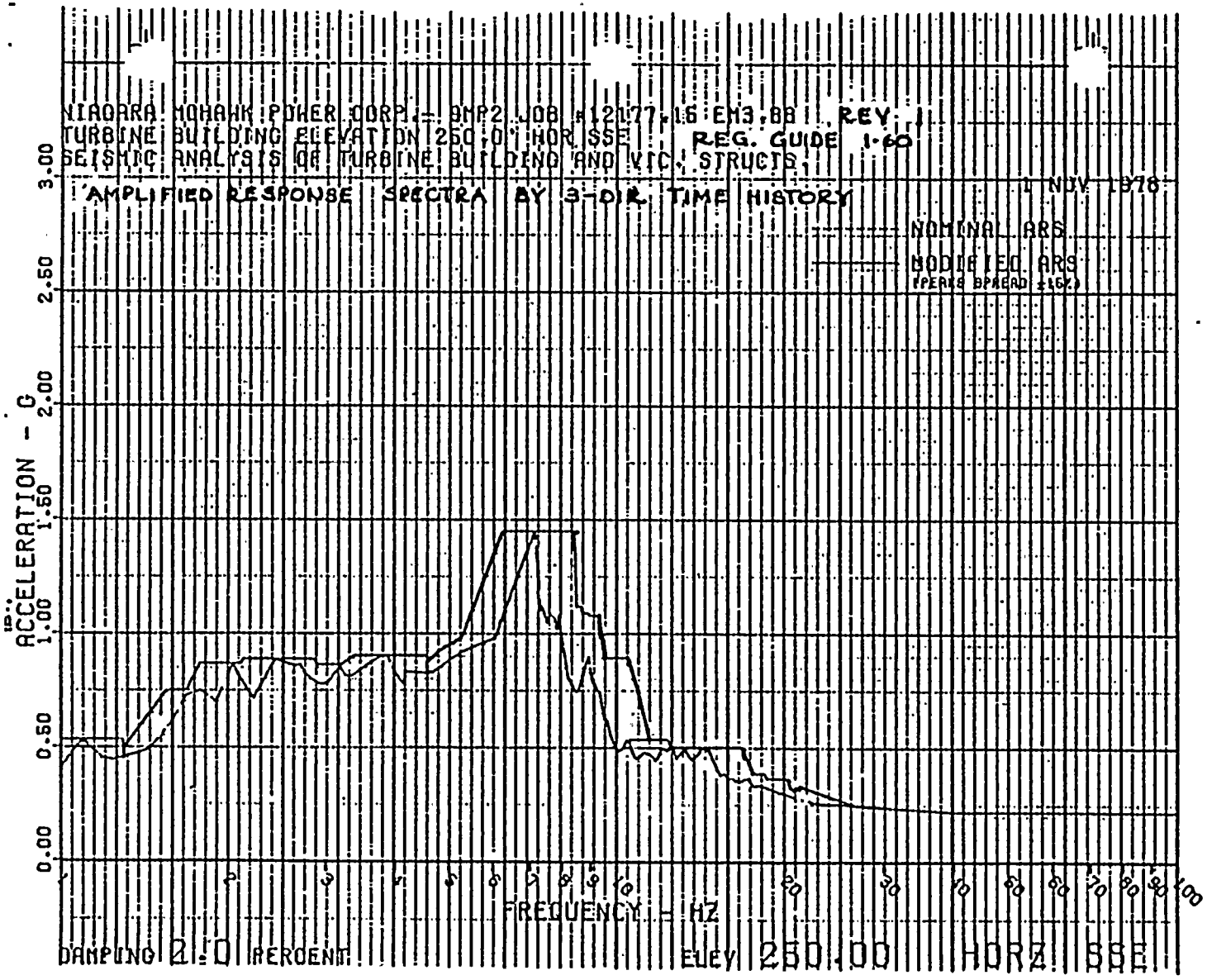


MS-1373 REV 0 REF 5

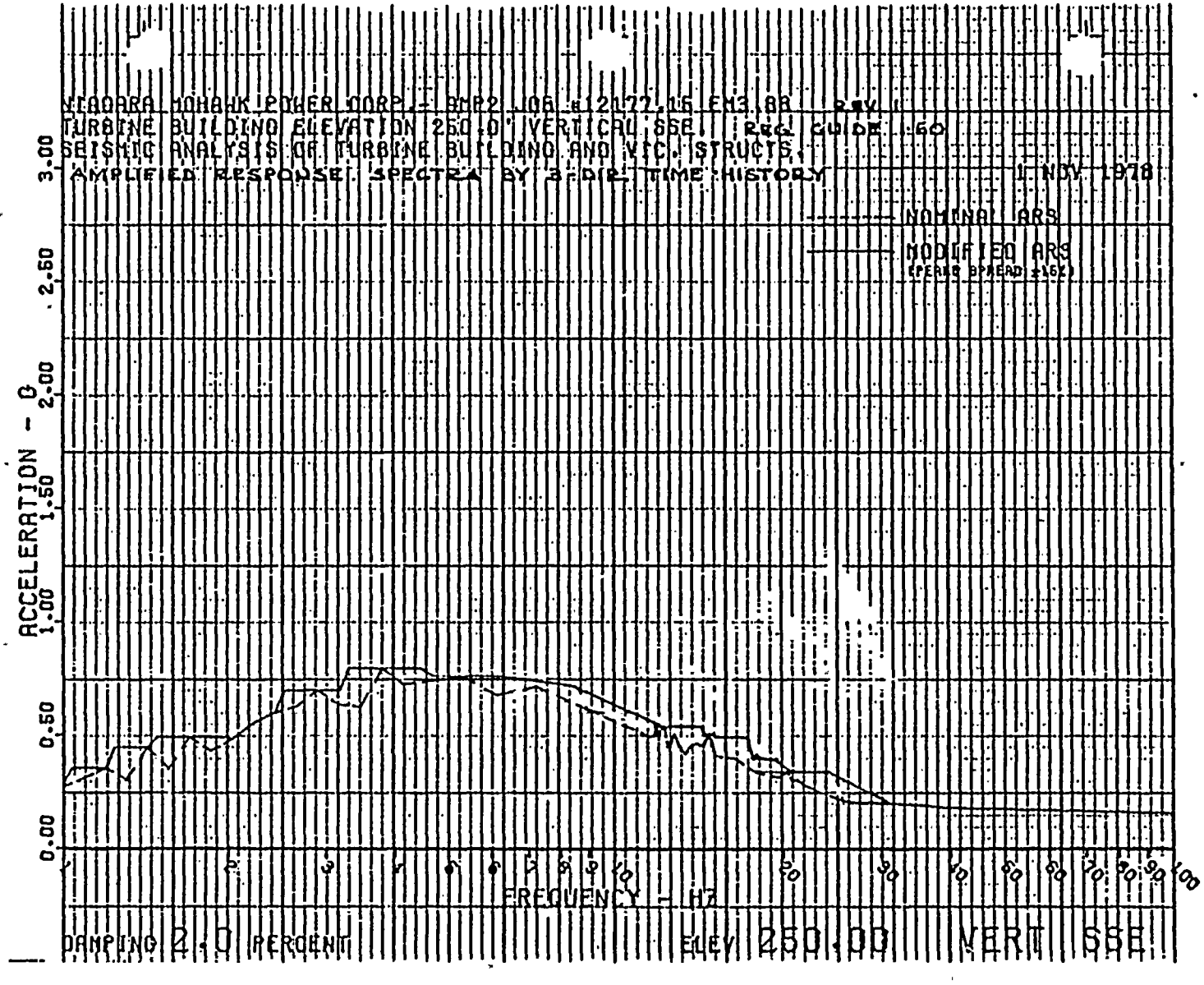
12177



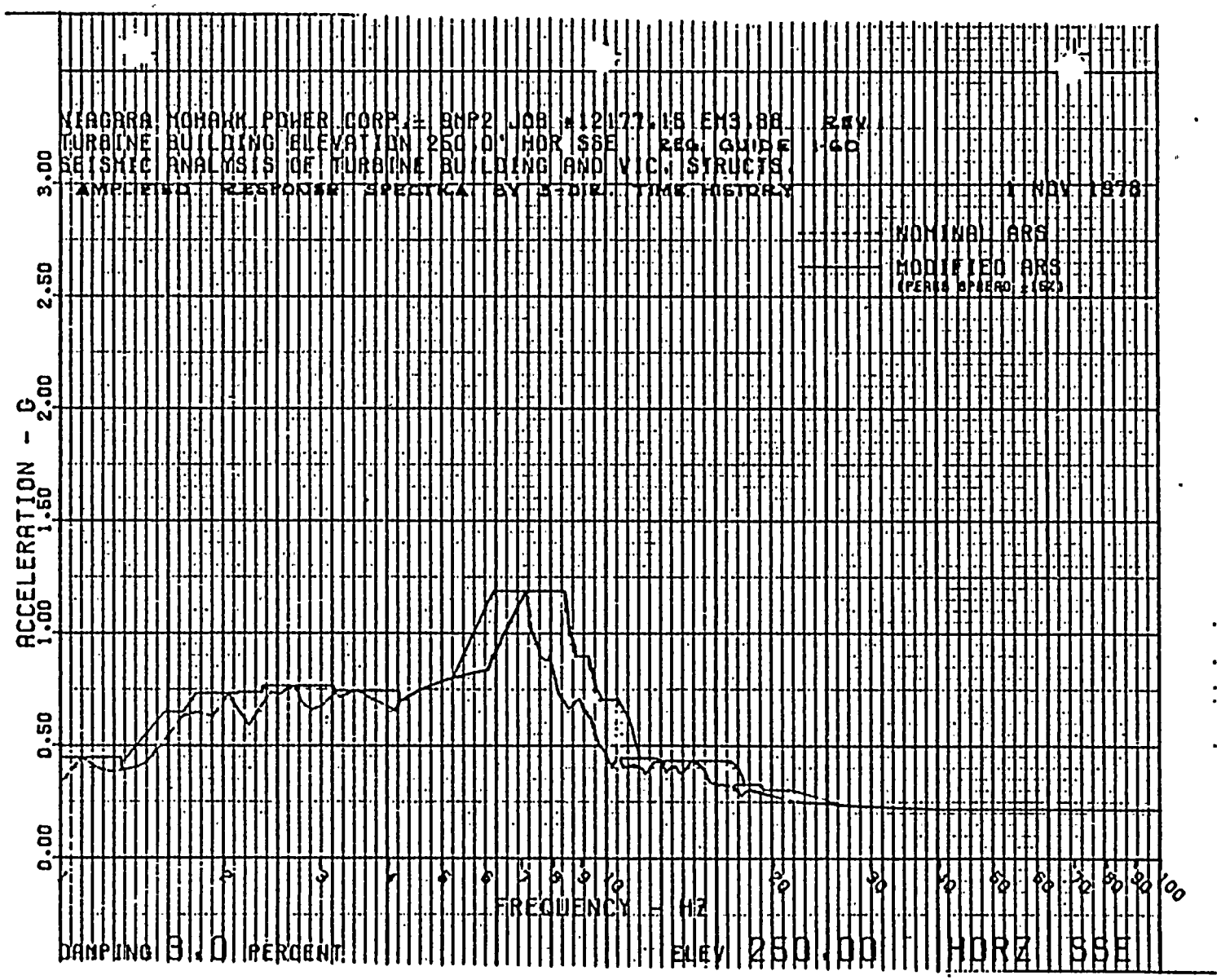
MS-1373 REV 0, REF 5
12/77



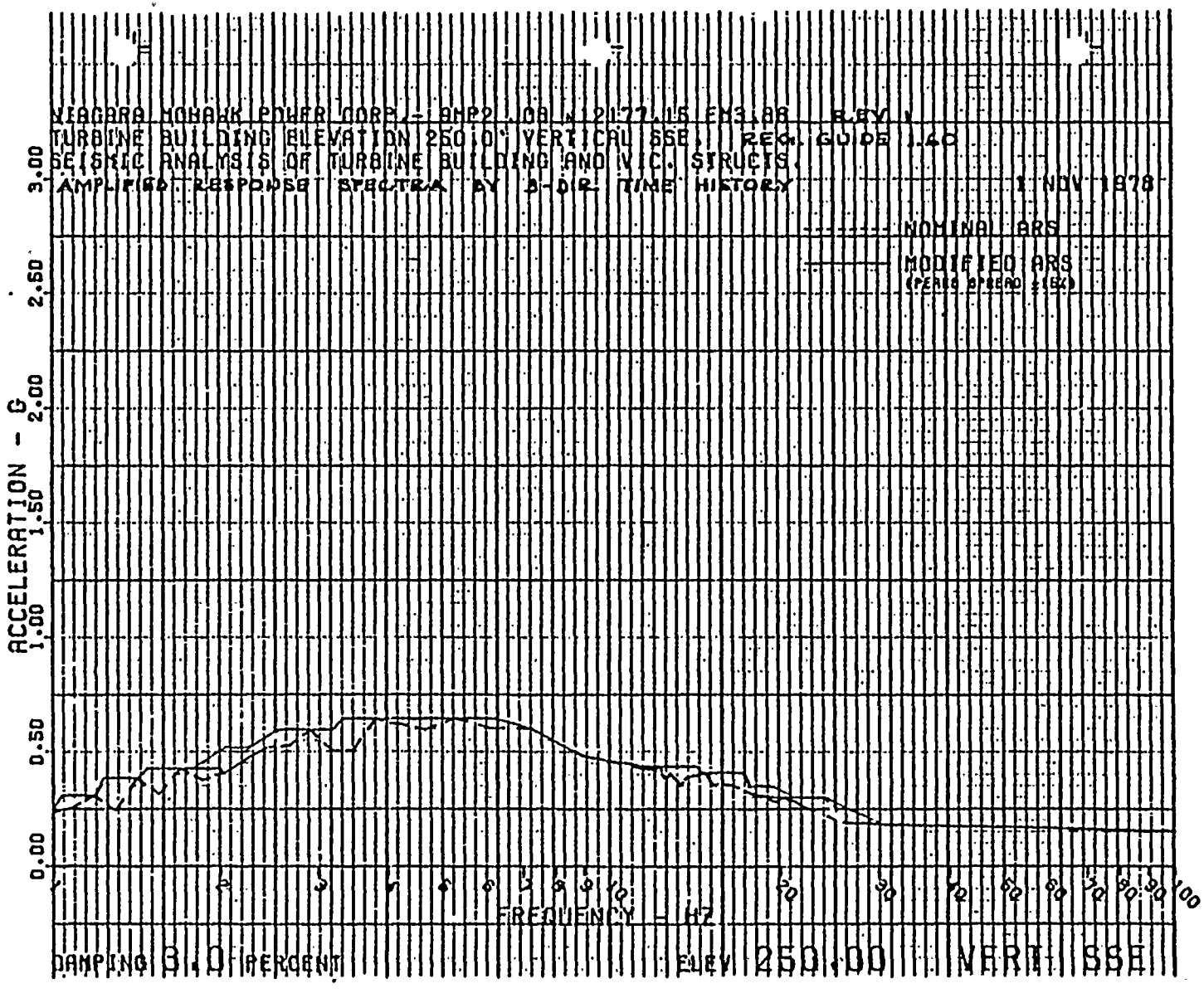
MS 1373 REV 0 1 REF 5
12177



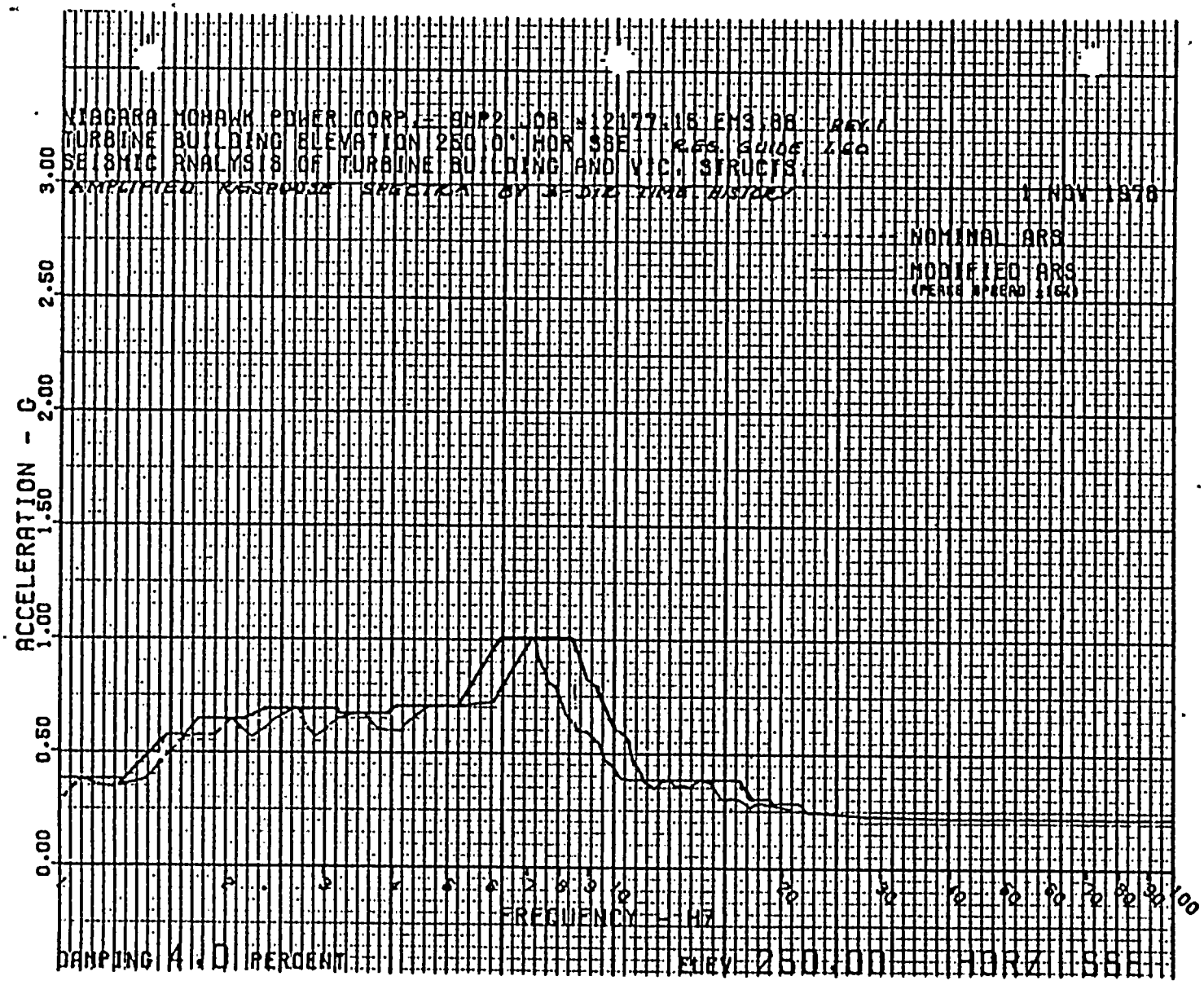
MS-1373 REV 0 REF 5
12/77



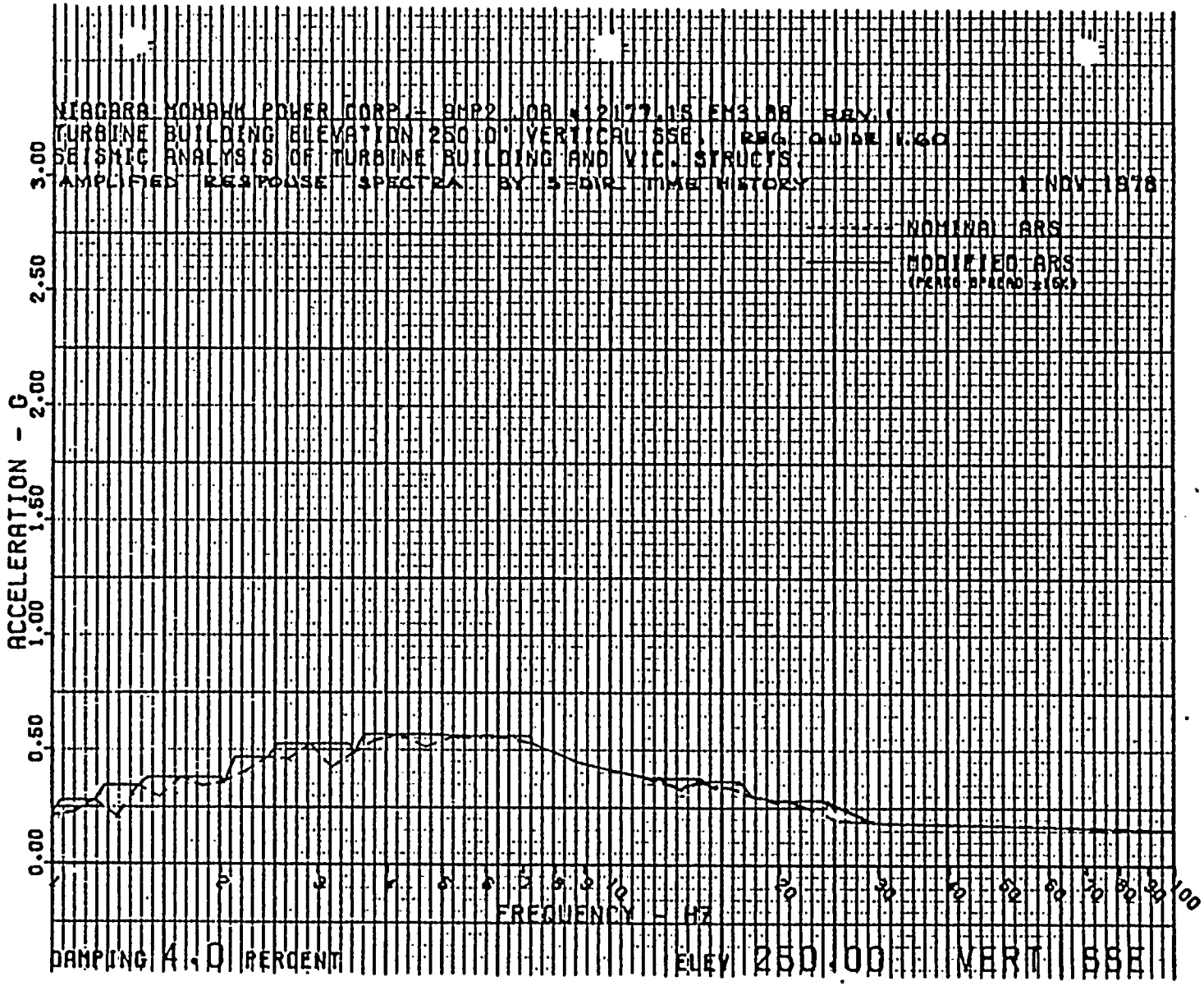
MS- 1373 REV 0 REF 5
12177



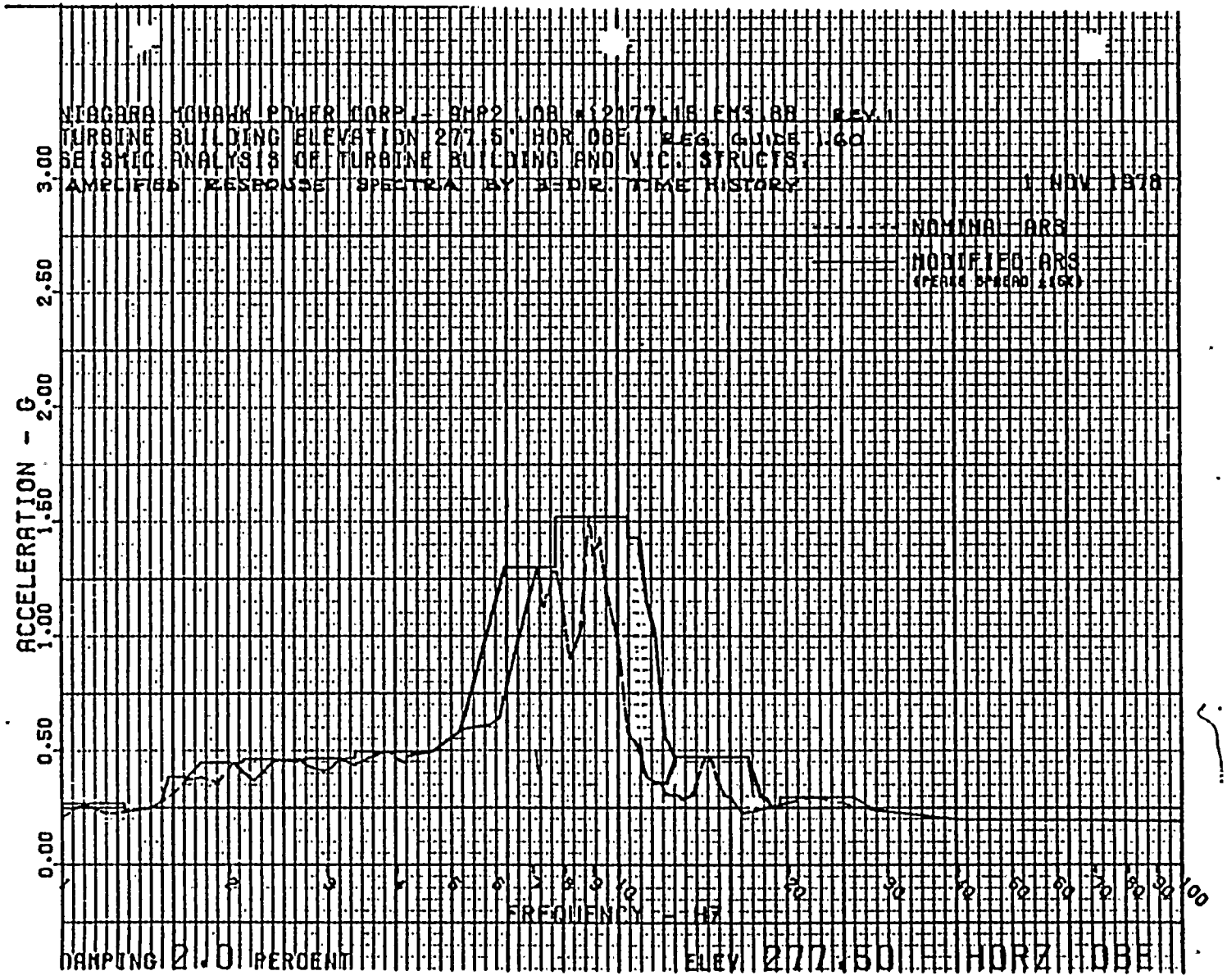
MS-1373 REV 0 REF 5 2
12177



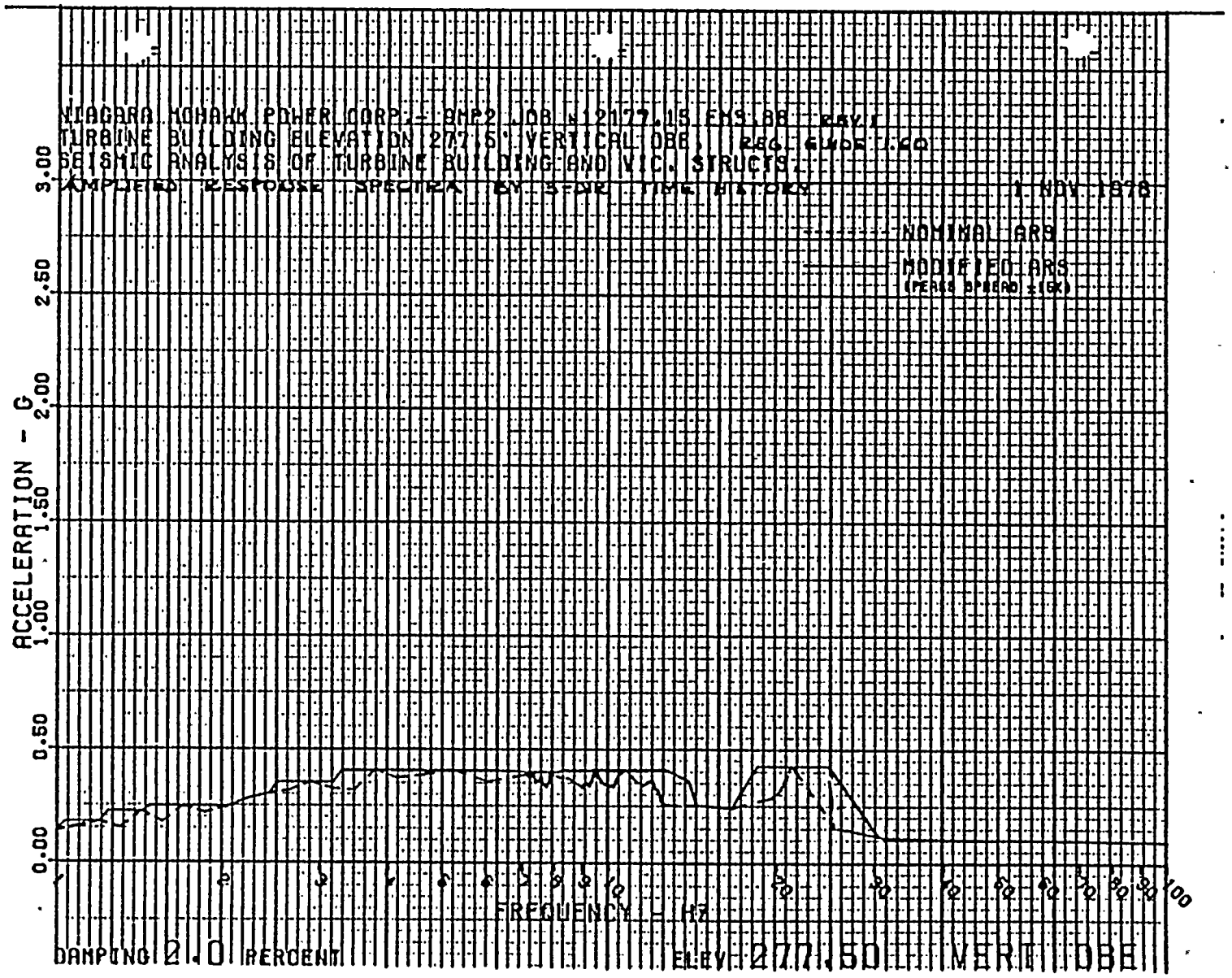
MS-1373 REV 01 REF 5
12177



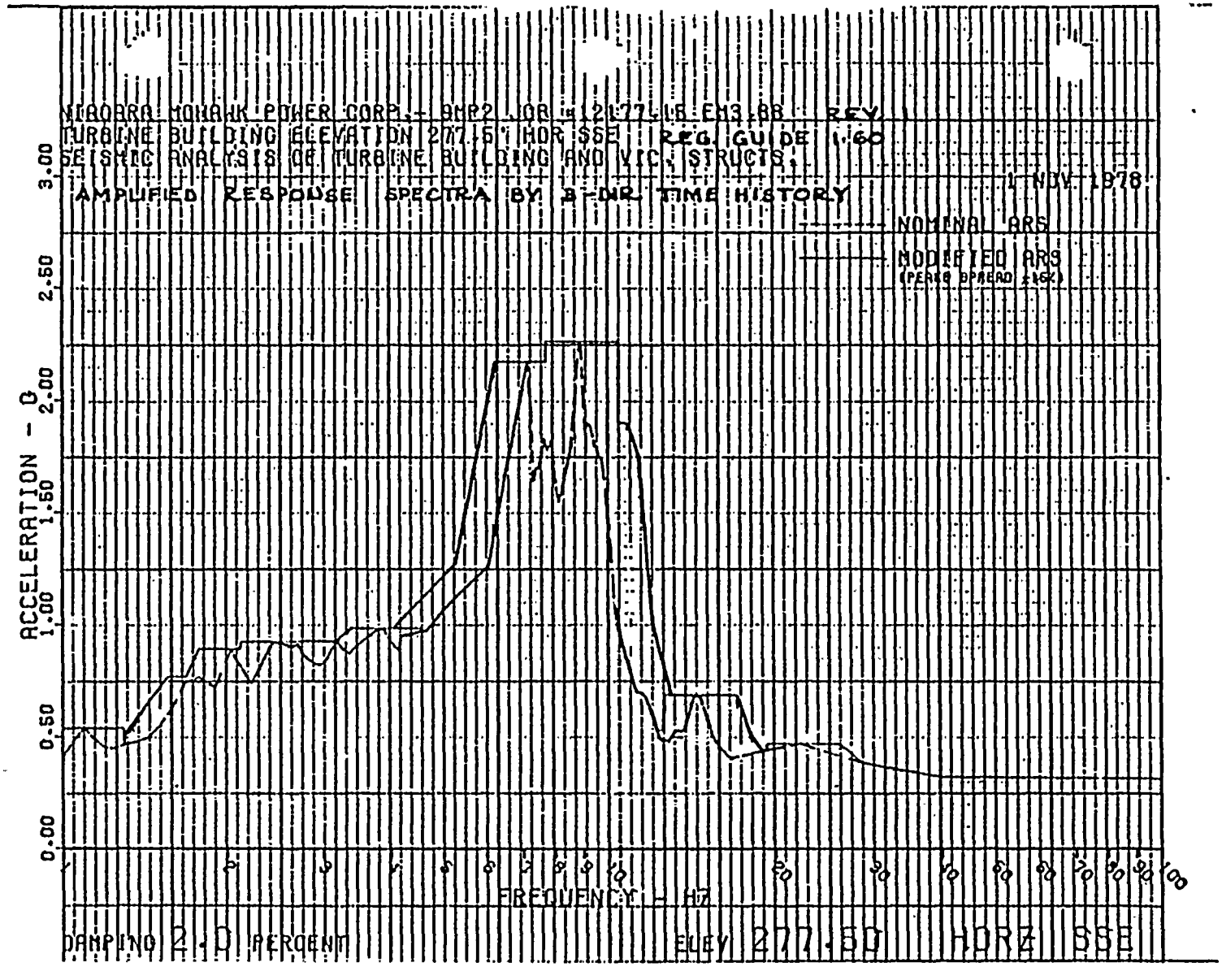
MS-1373 REV 0 REF 5
12177



MS-1373 REV 0 REF 6
12/77

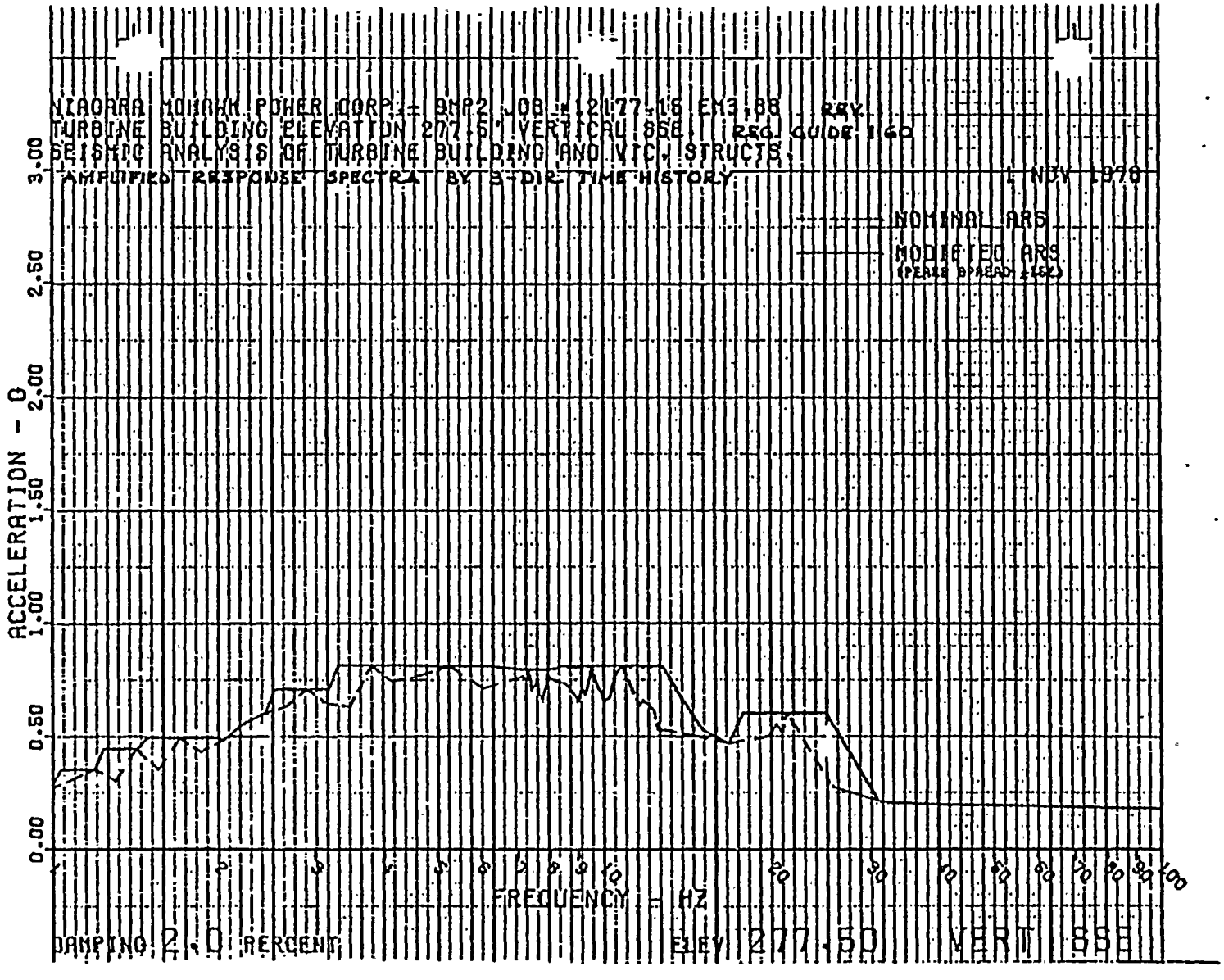


MS-13373 REV 0 REF 6
12177

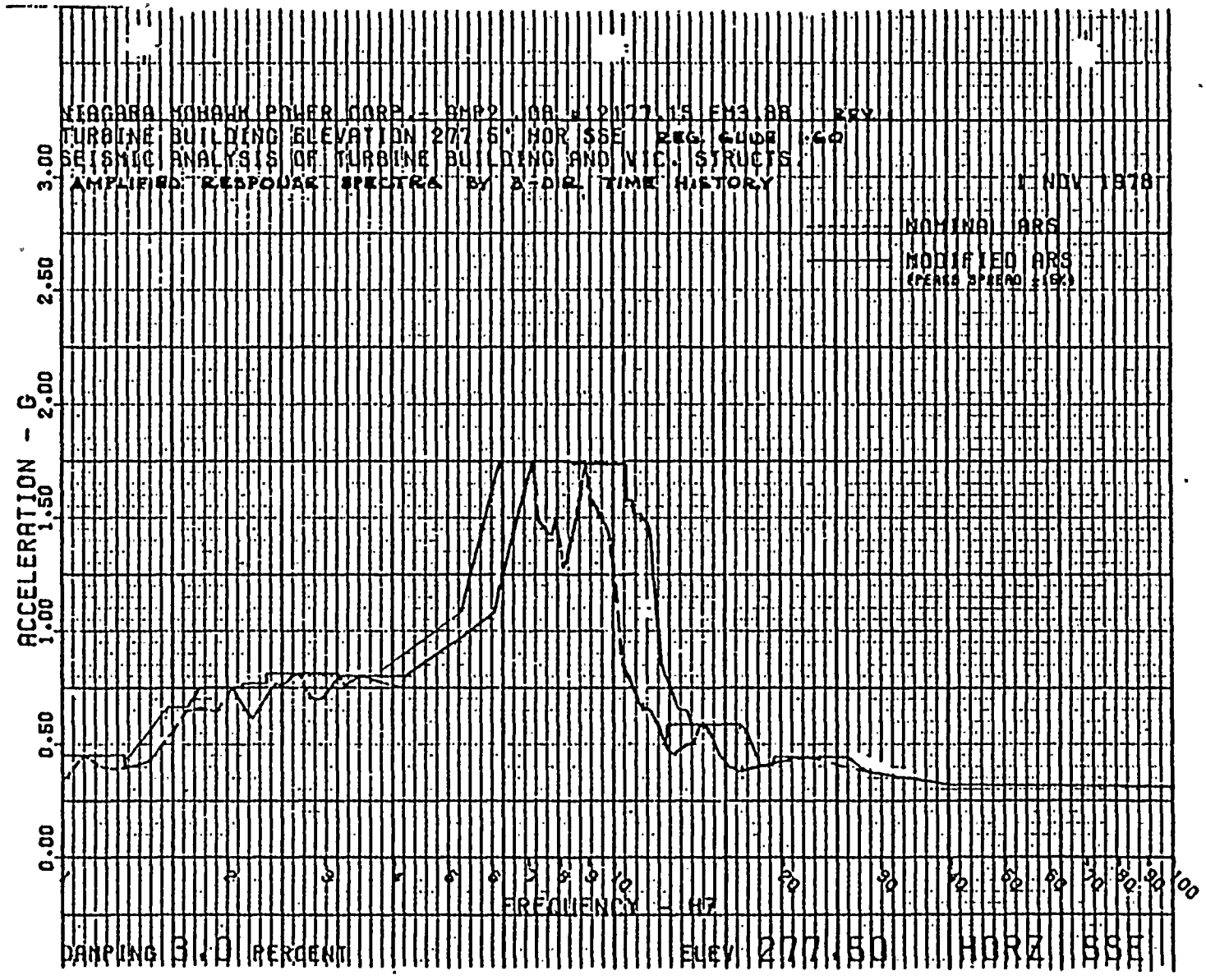


MS-13373 REV 0 REF 6

12177



MS-13373 REV 0 REF 6
12/77



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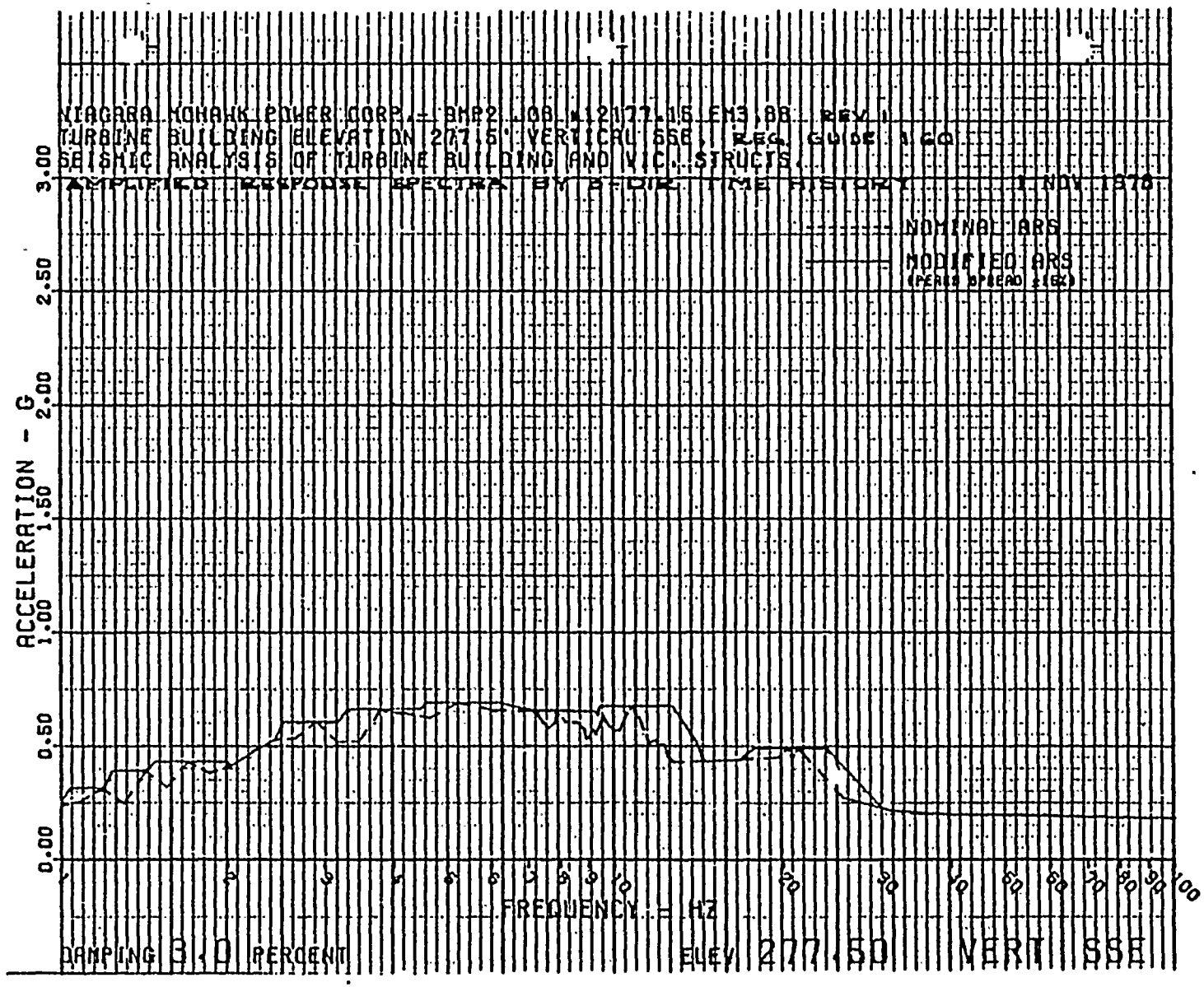

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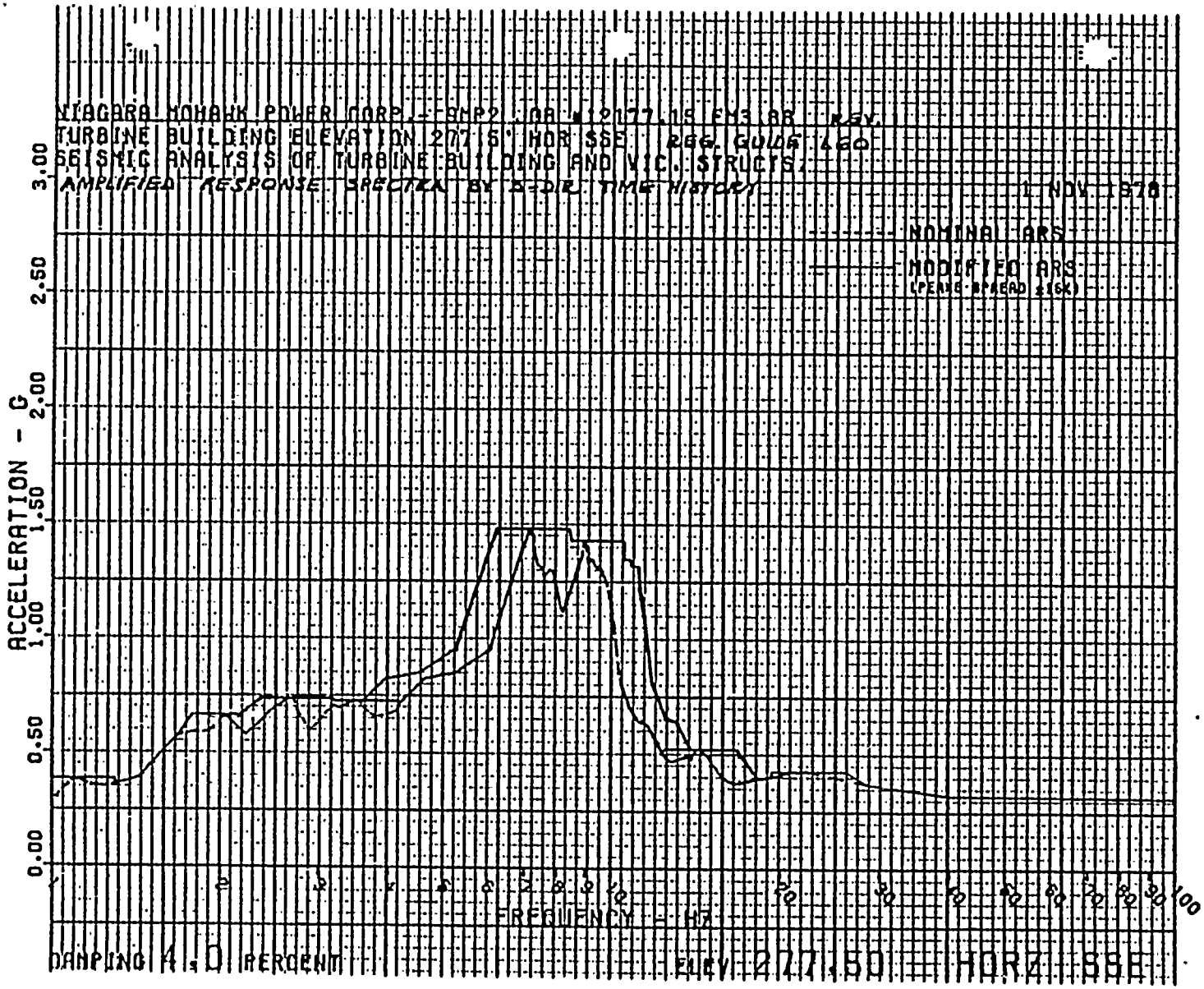

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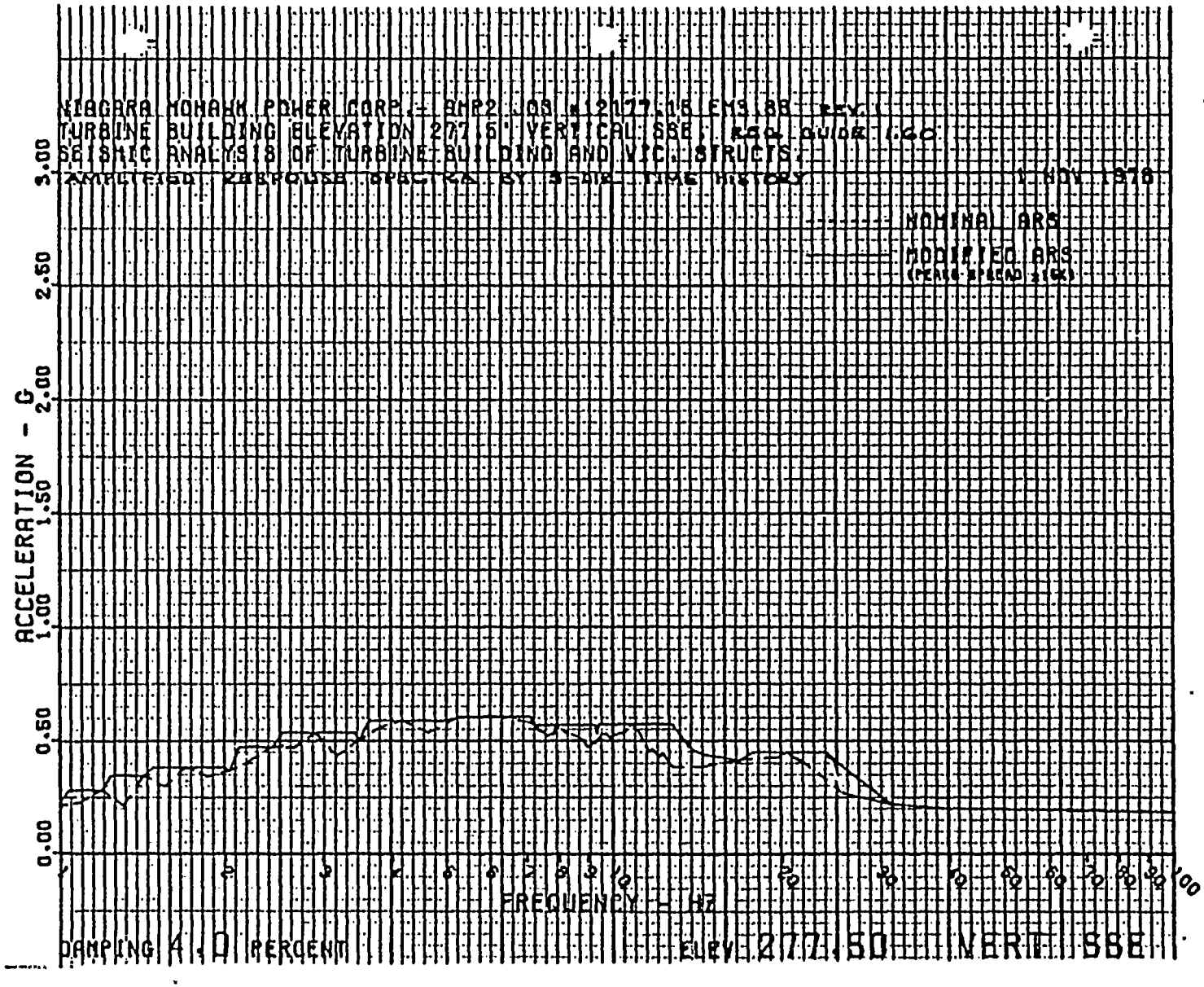

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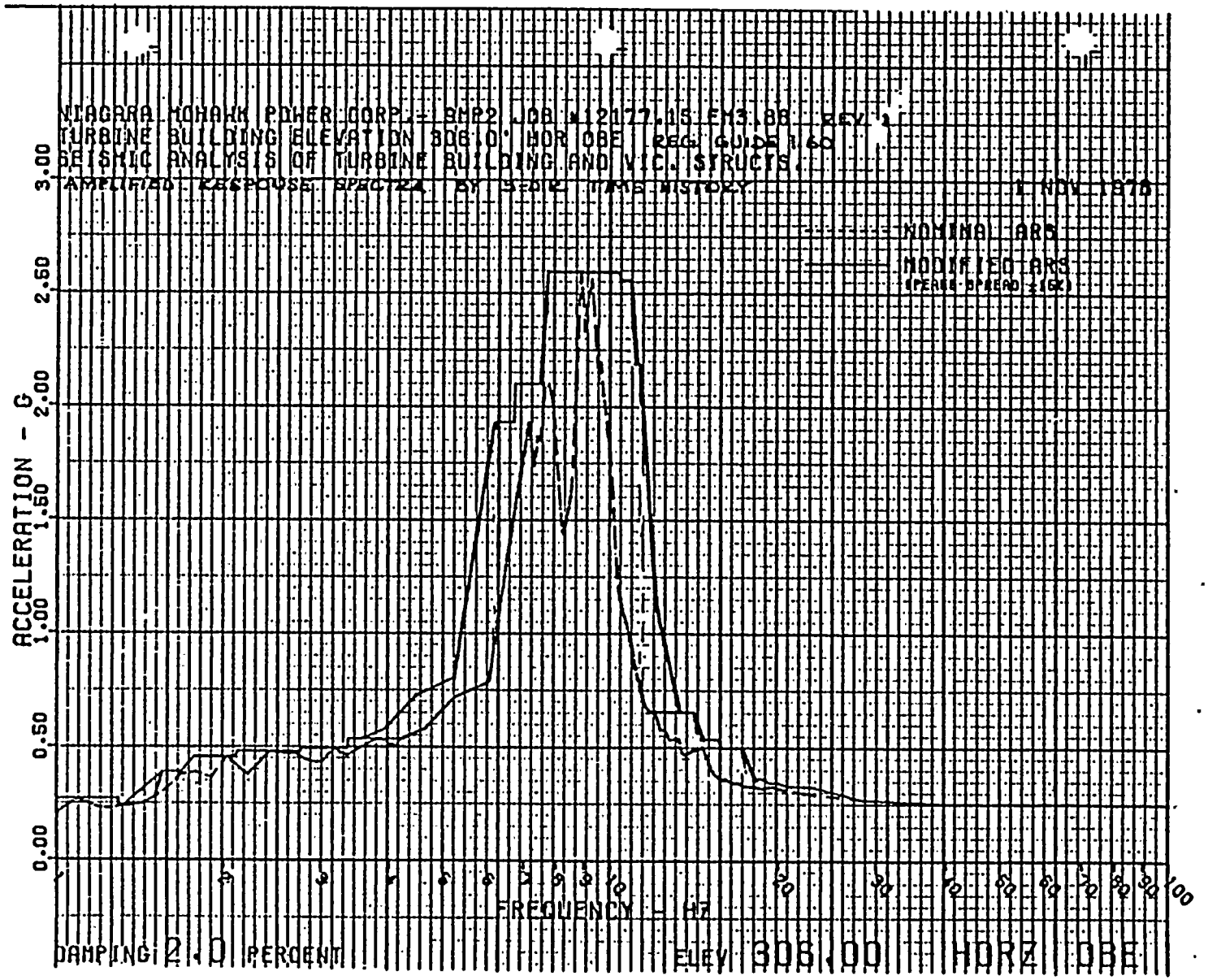

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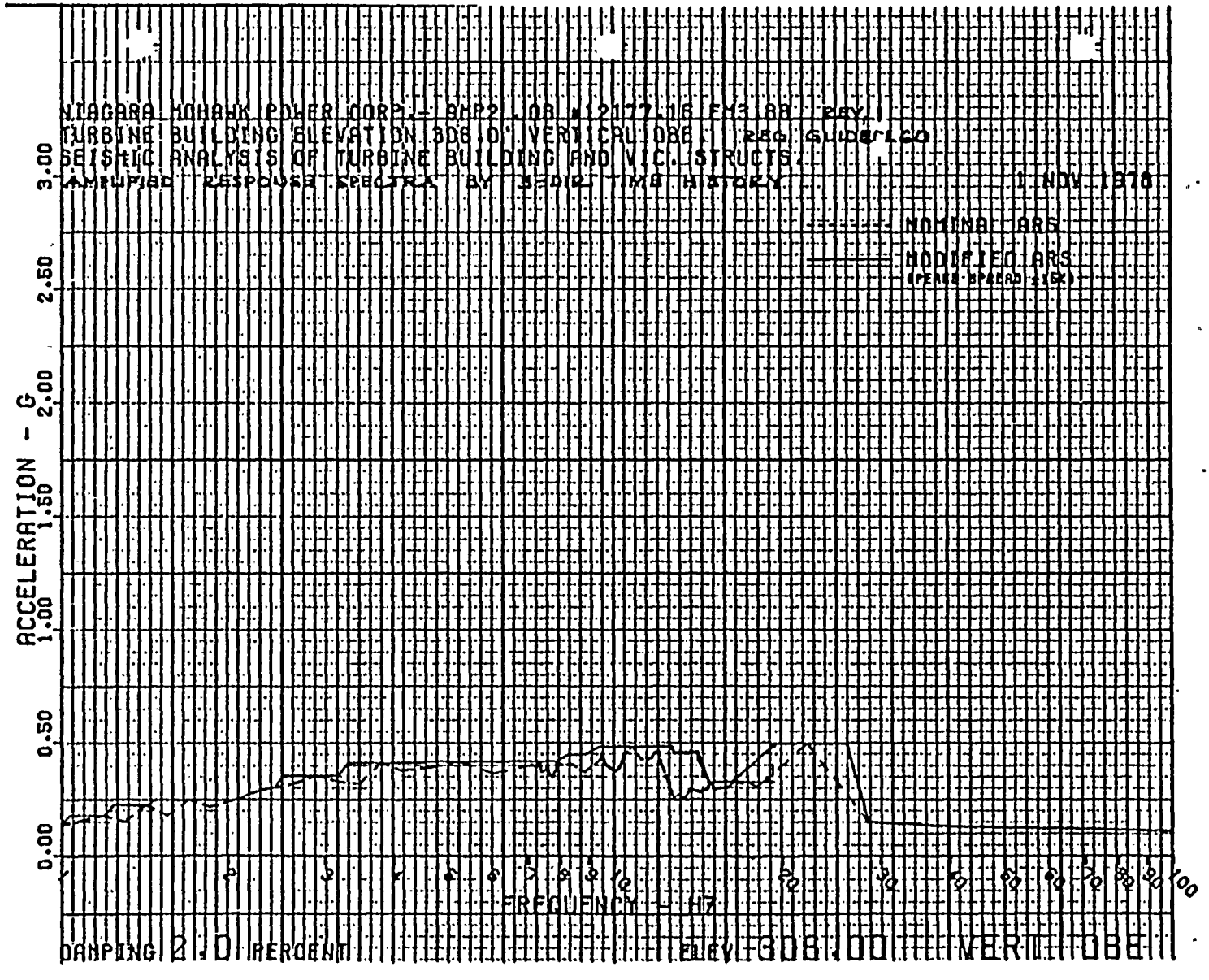

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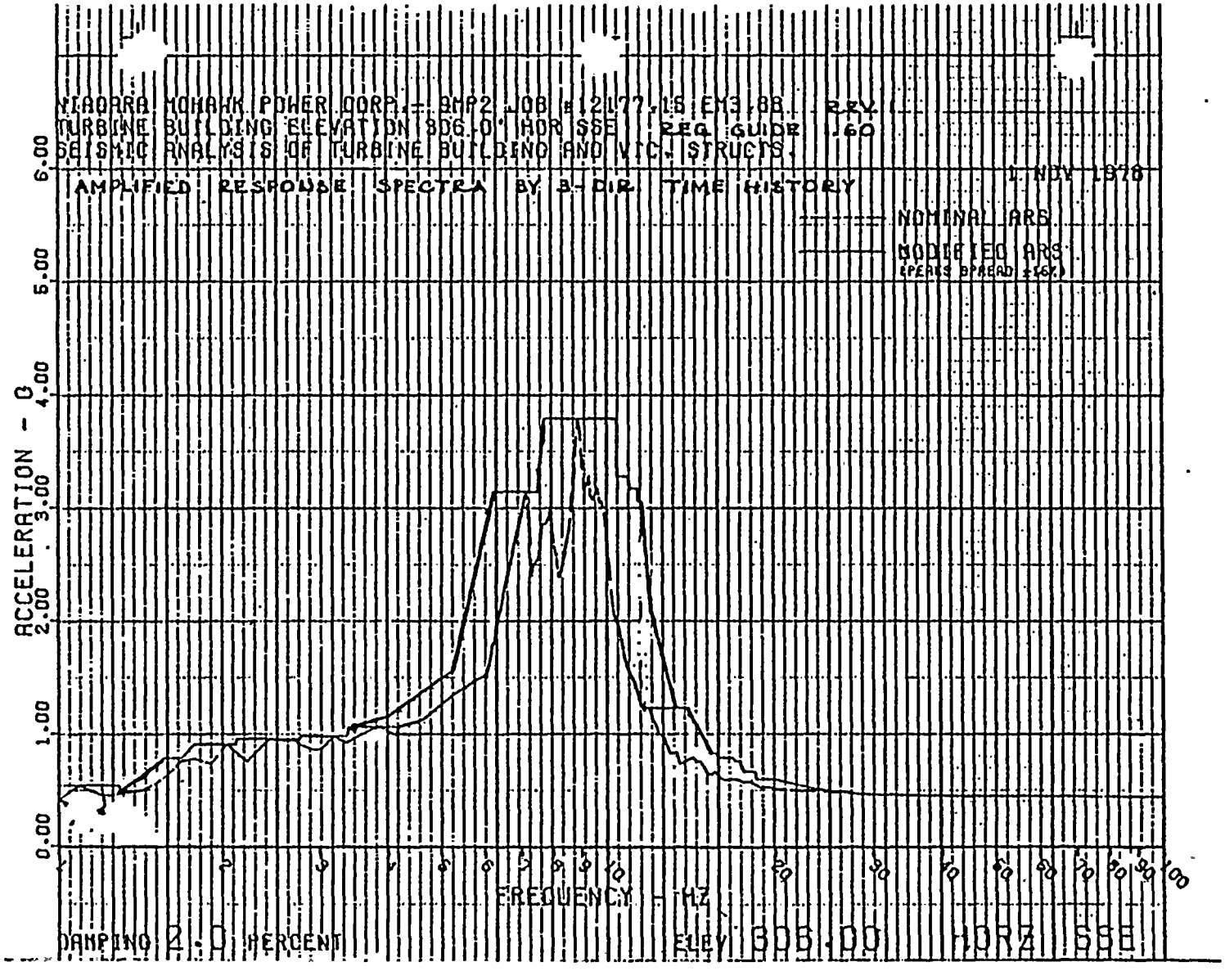

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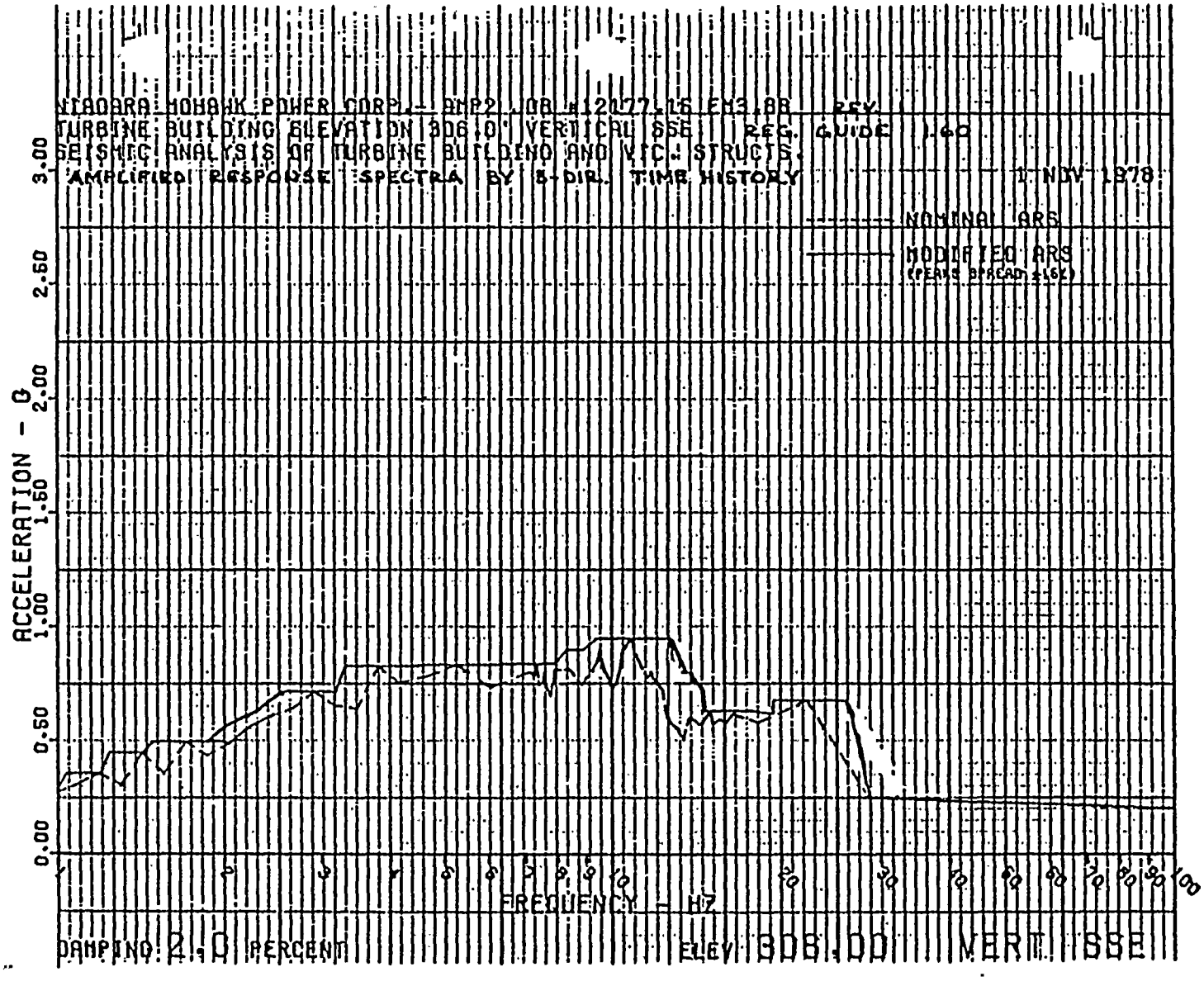

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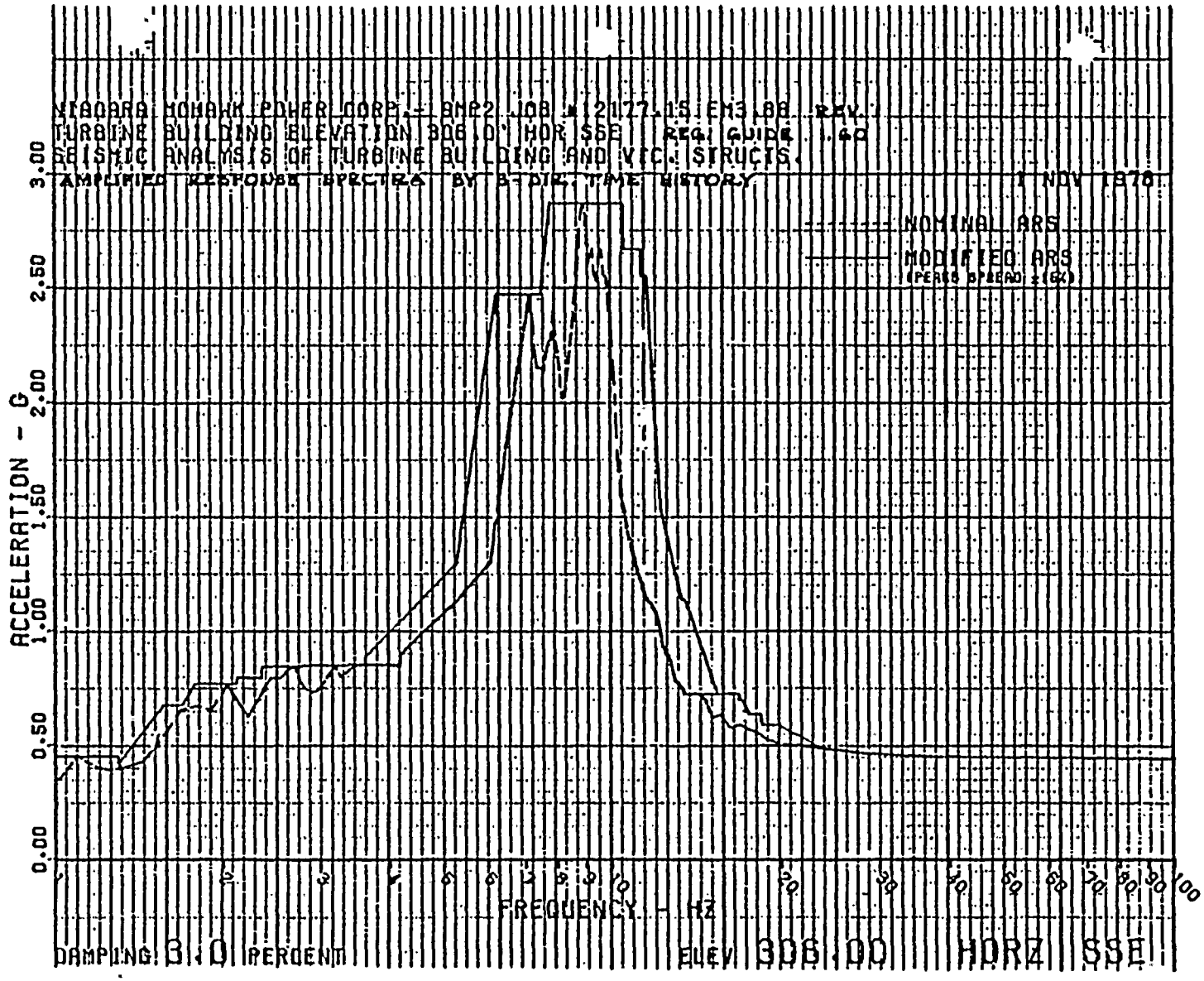

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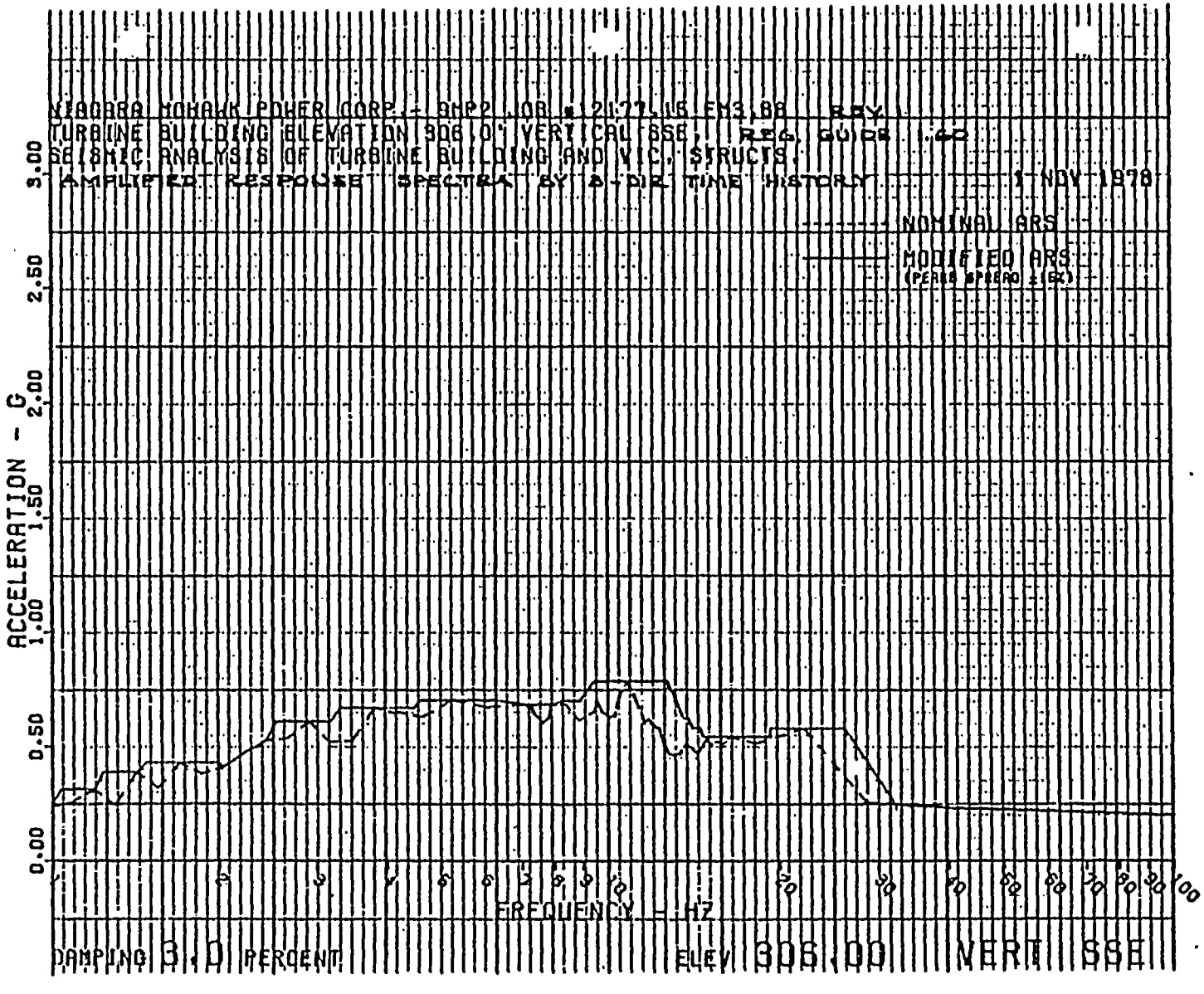

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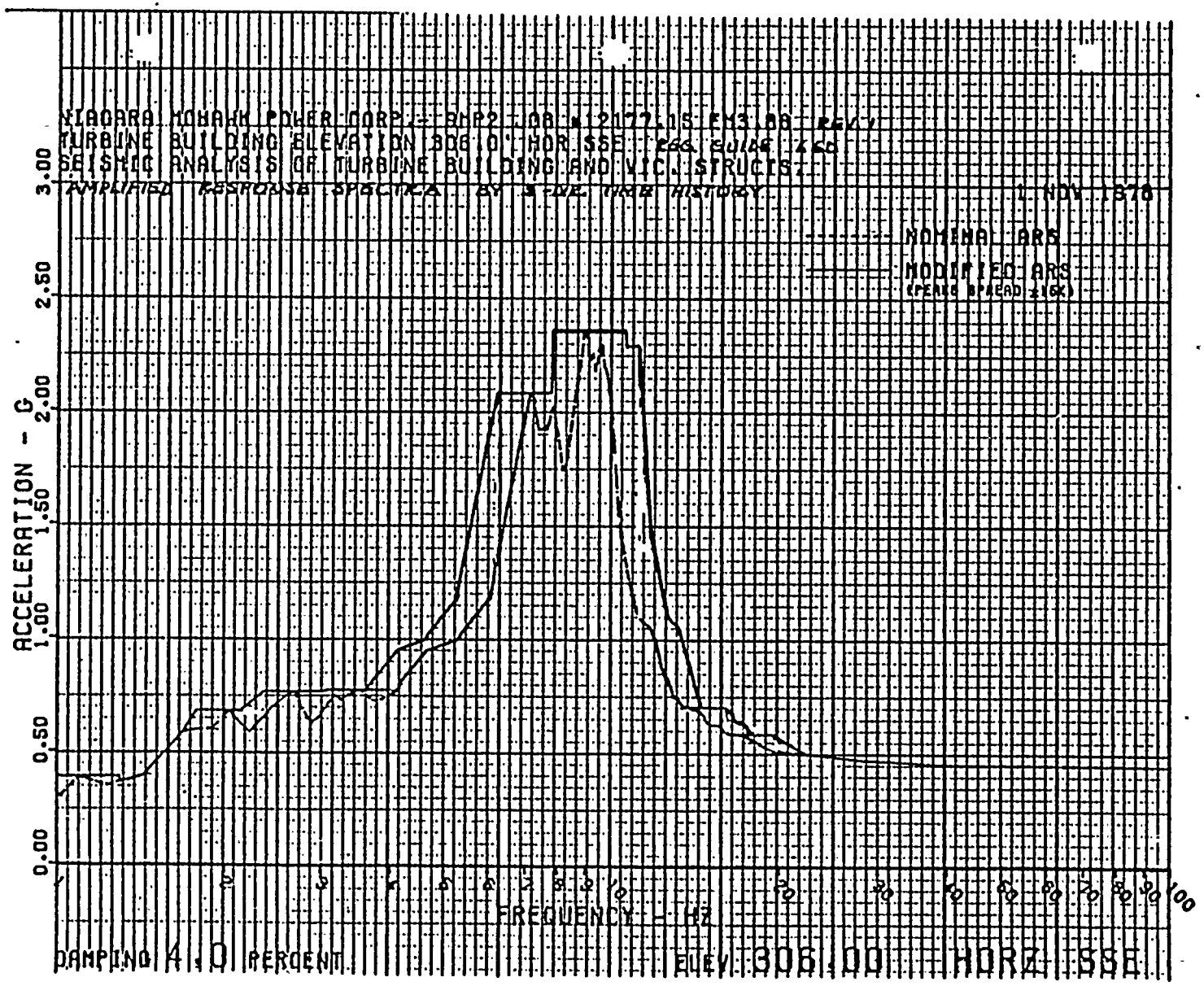

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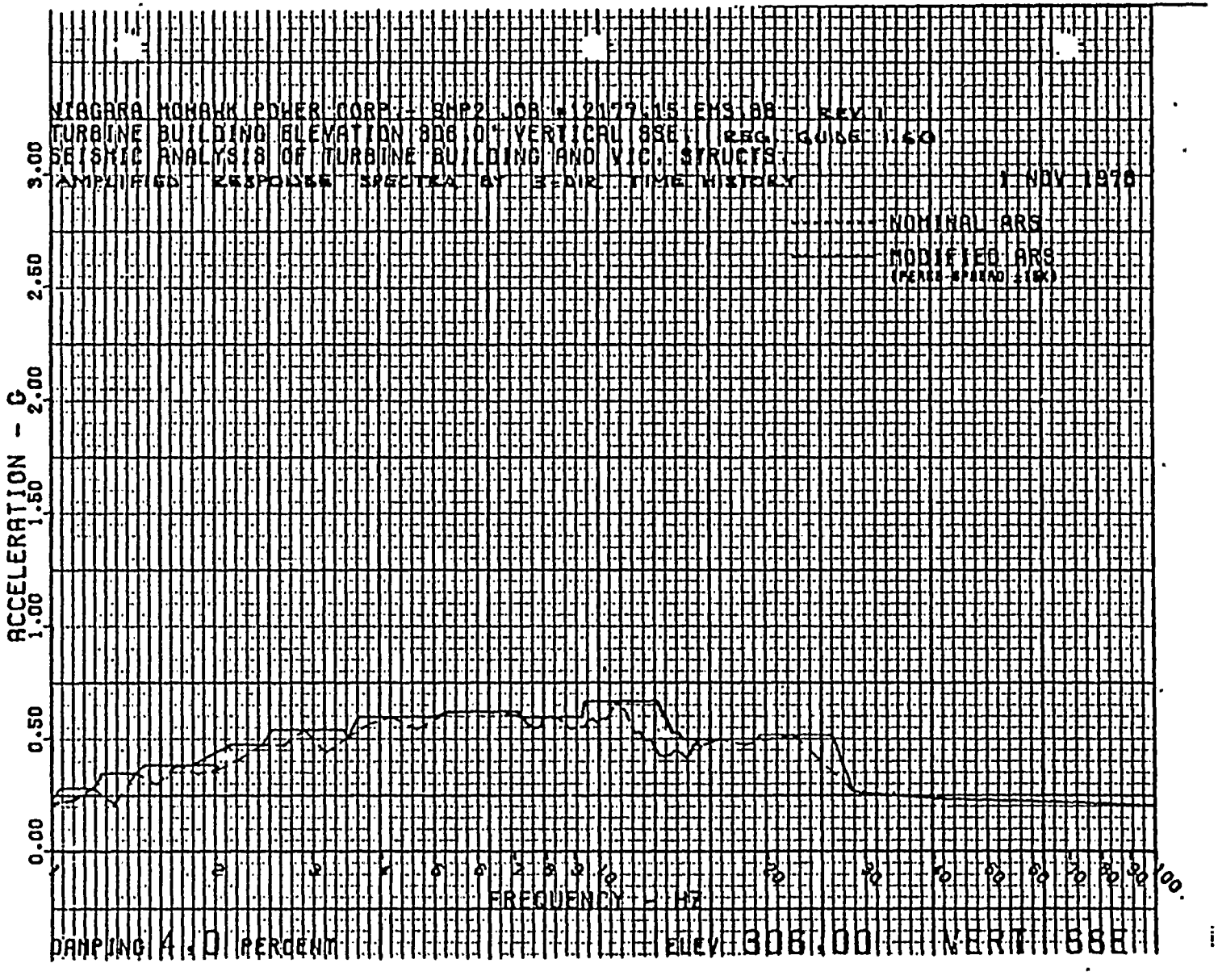

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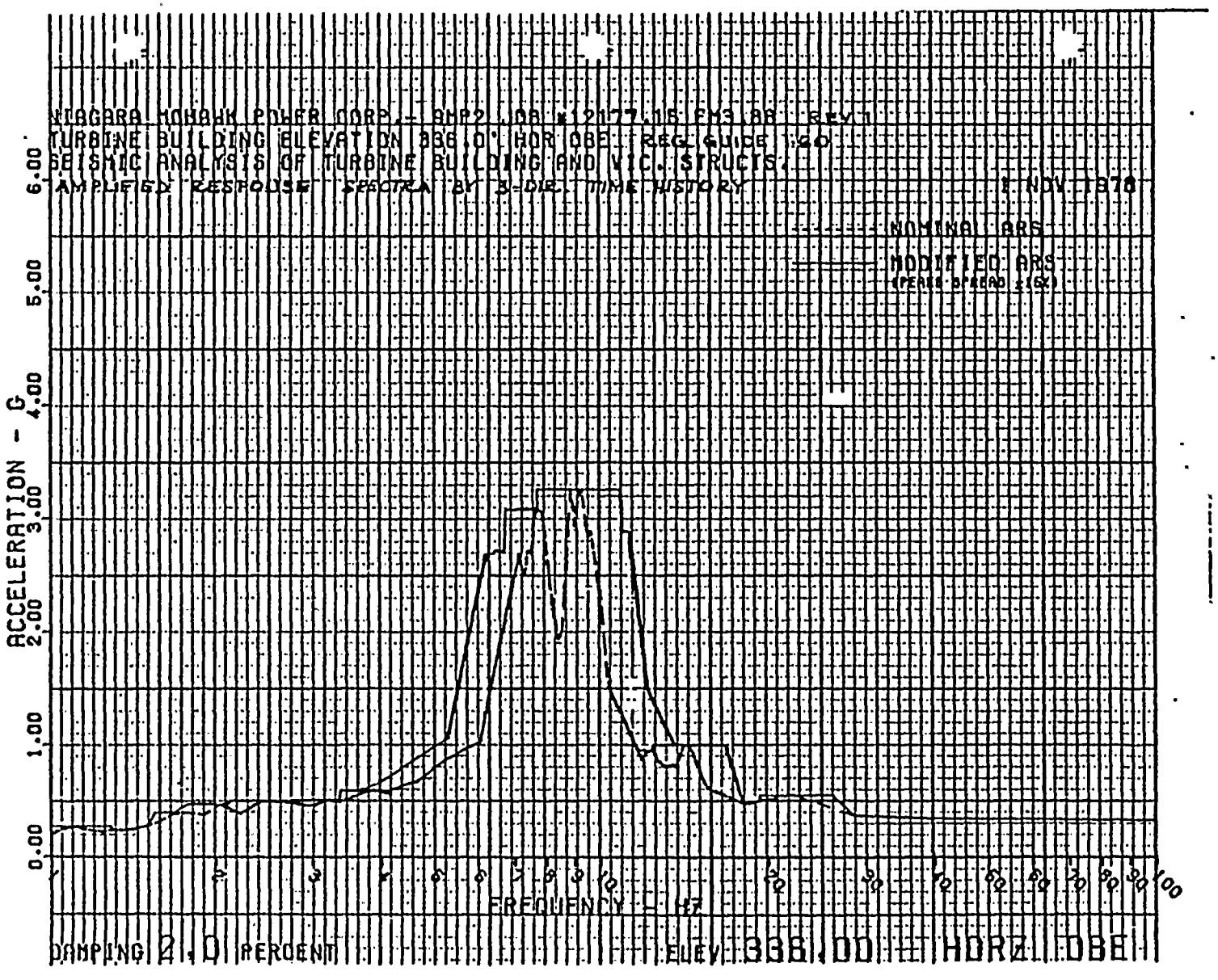

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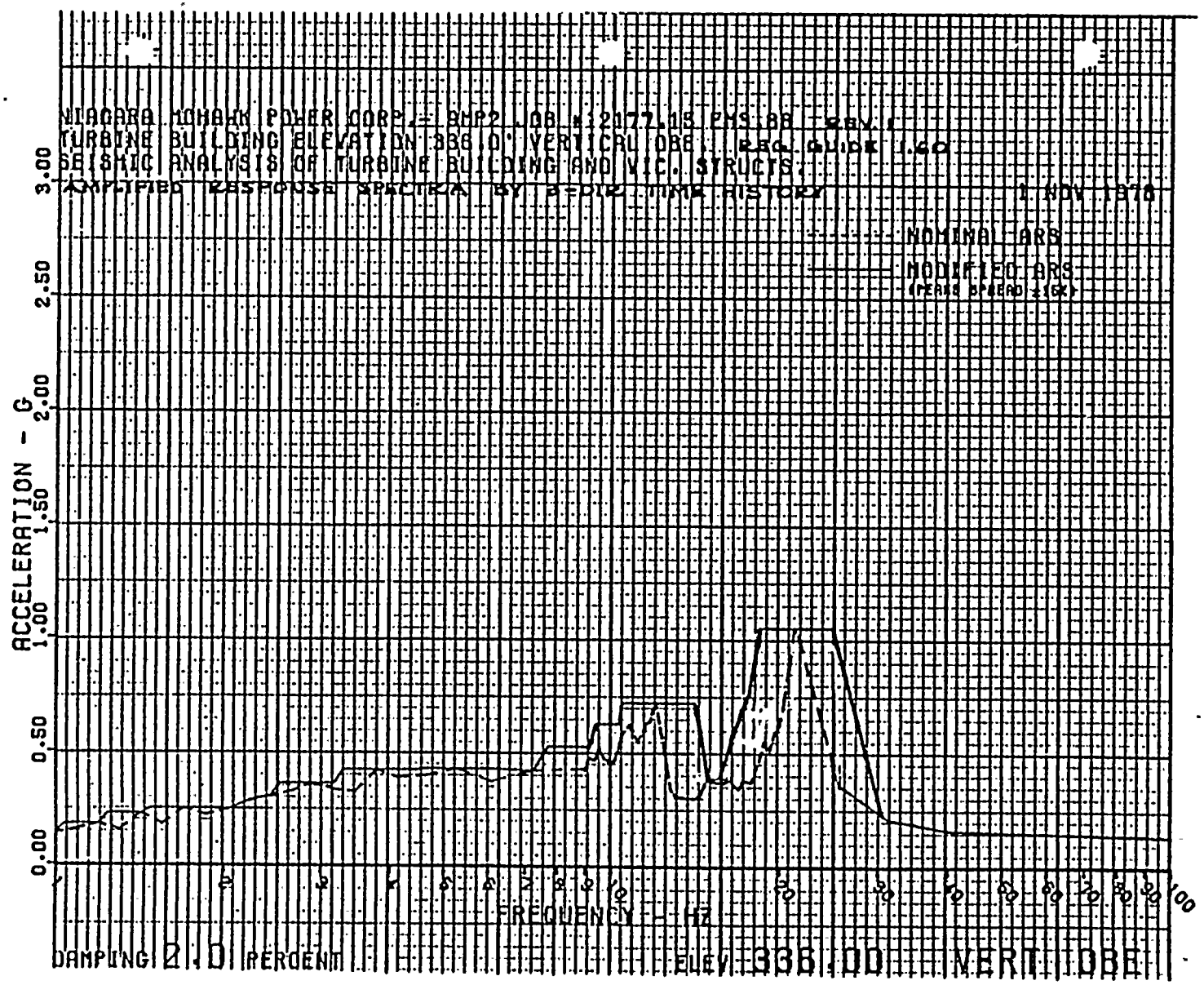

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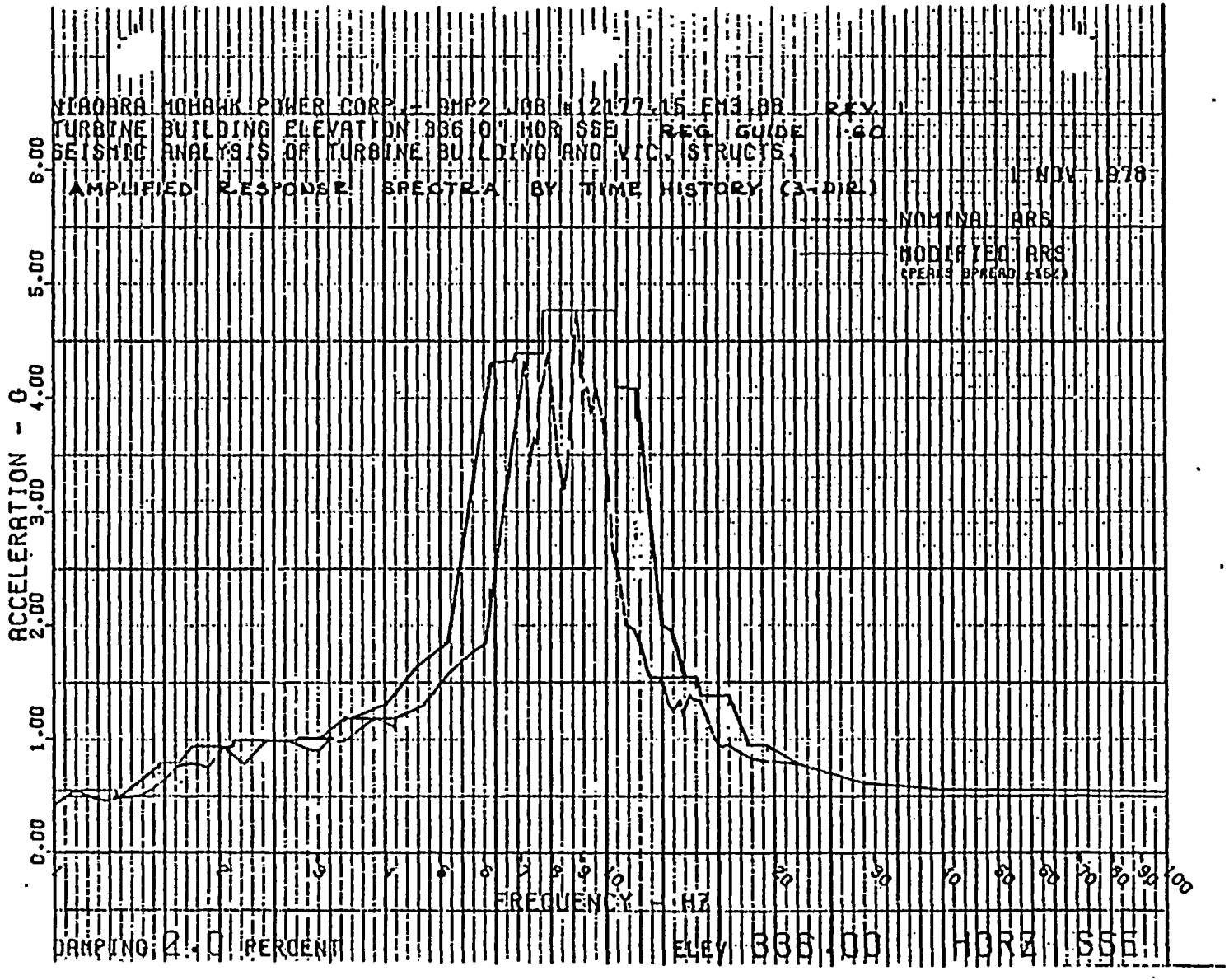

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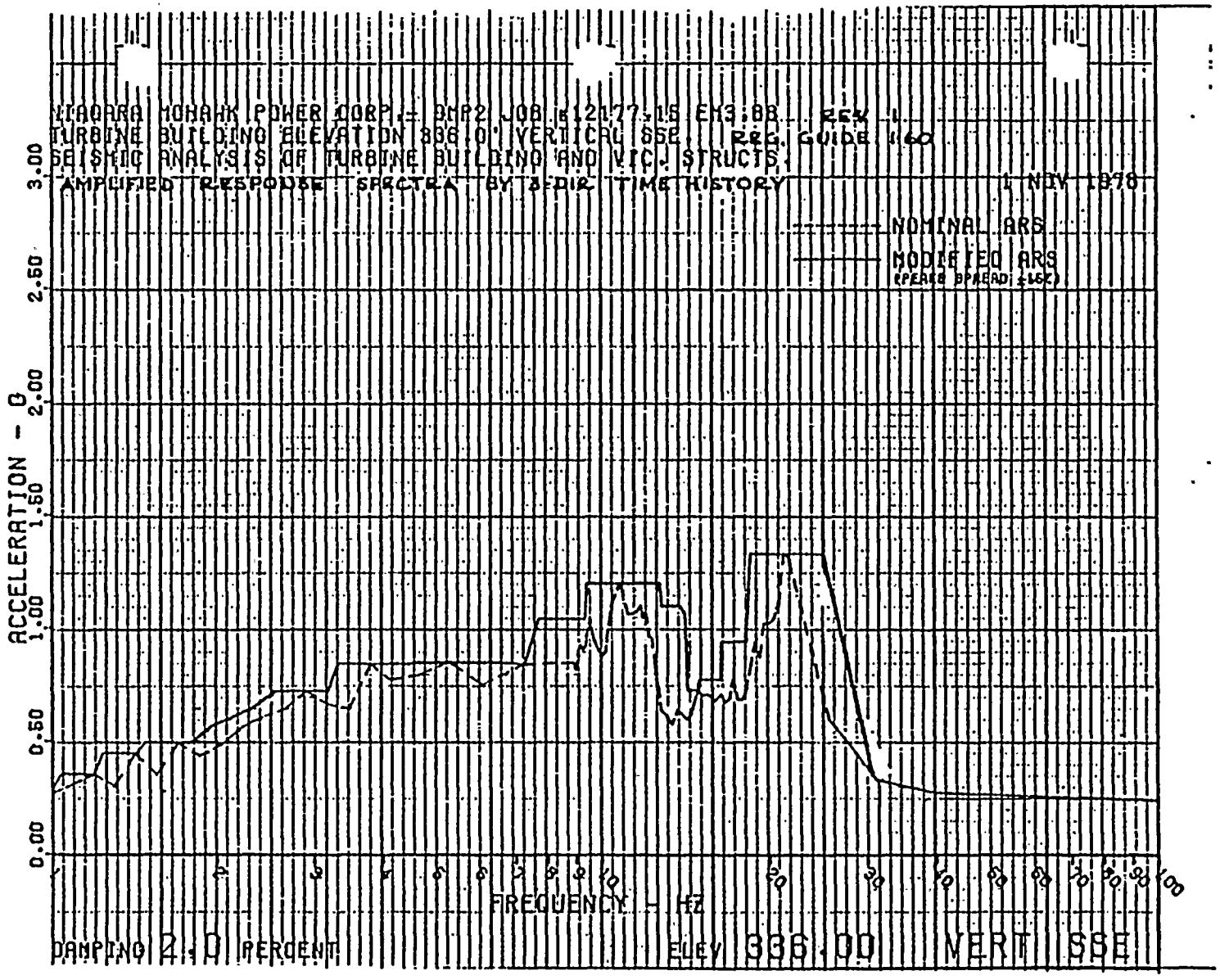

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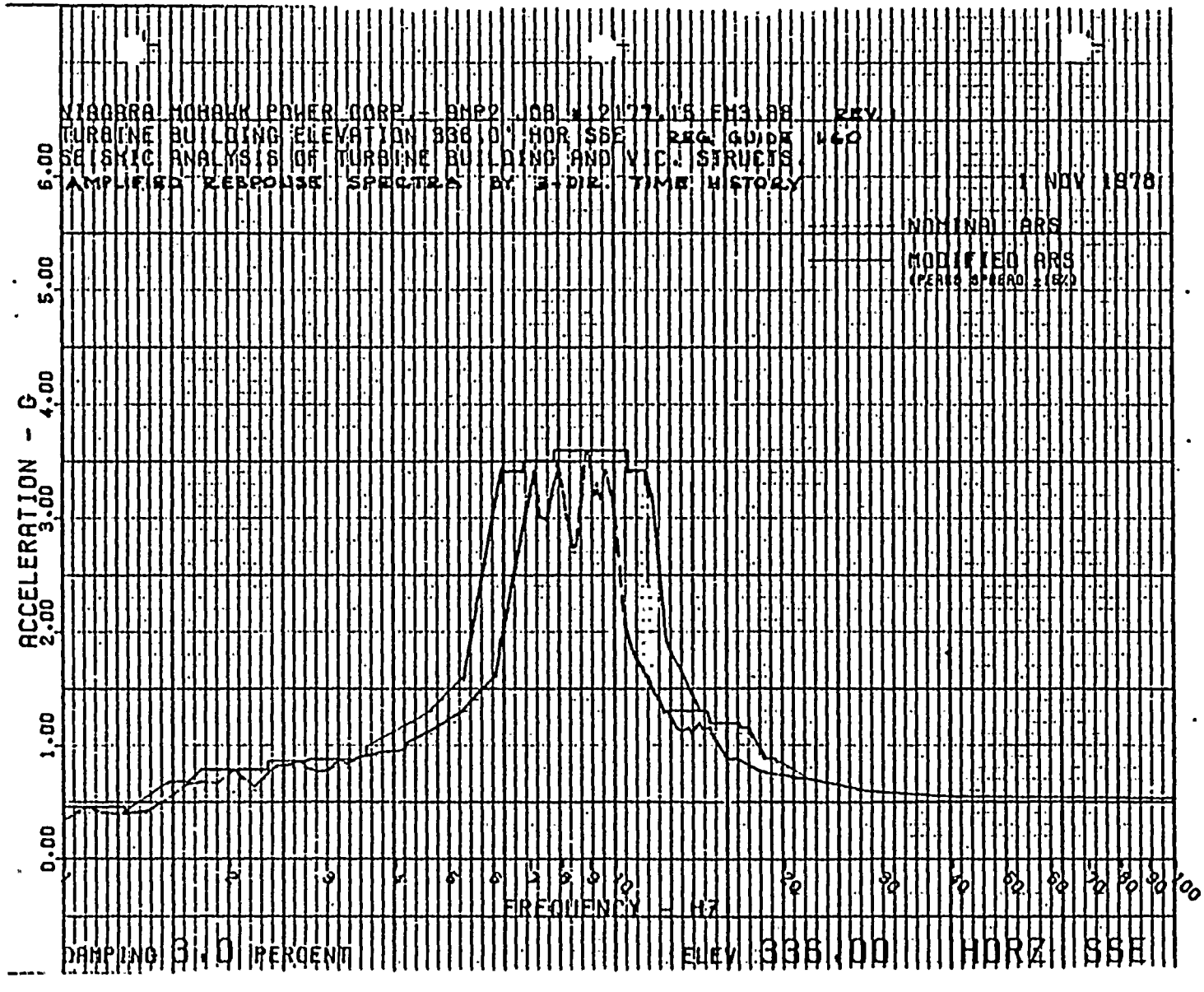

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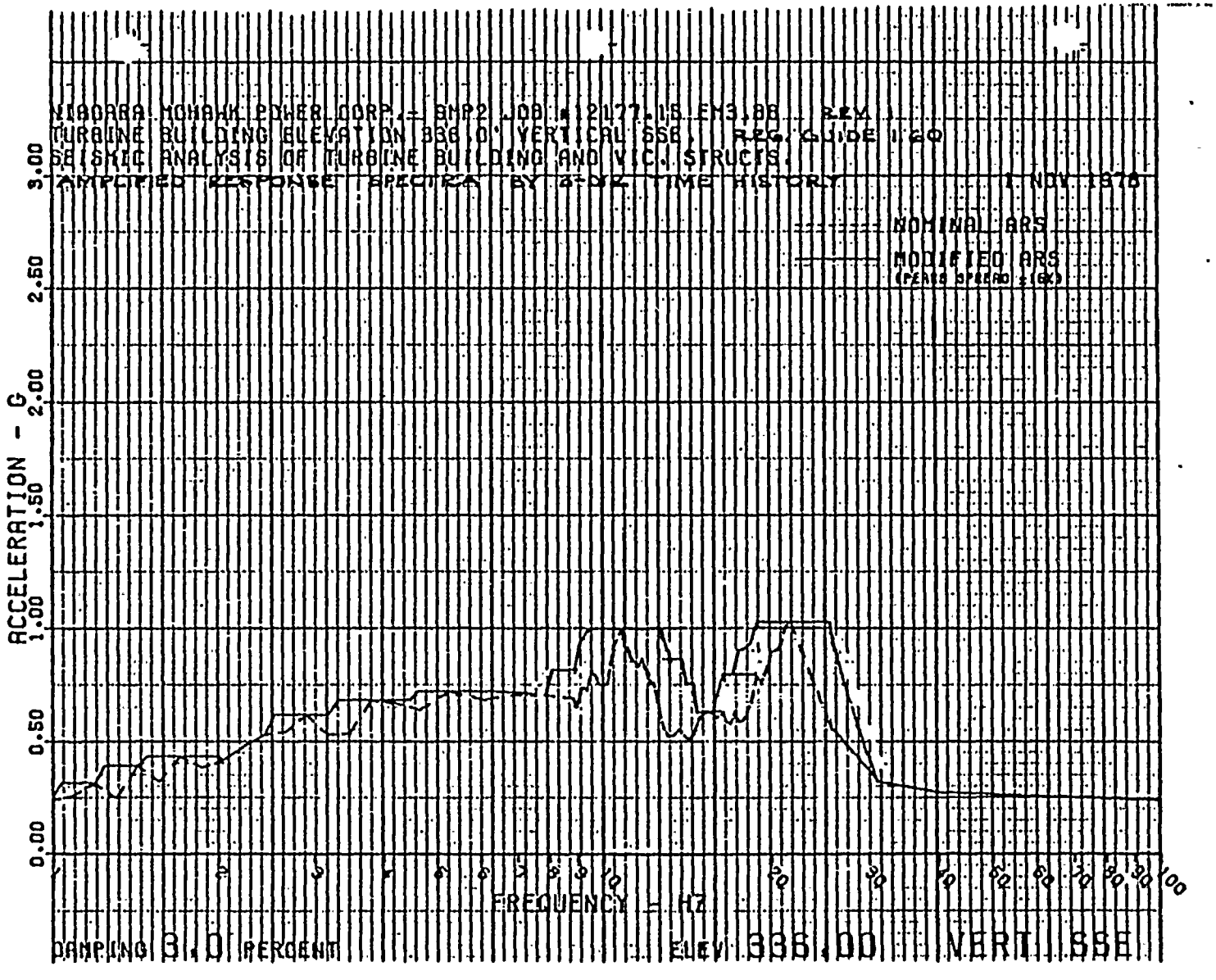

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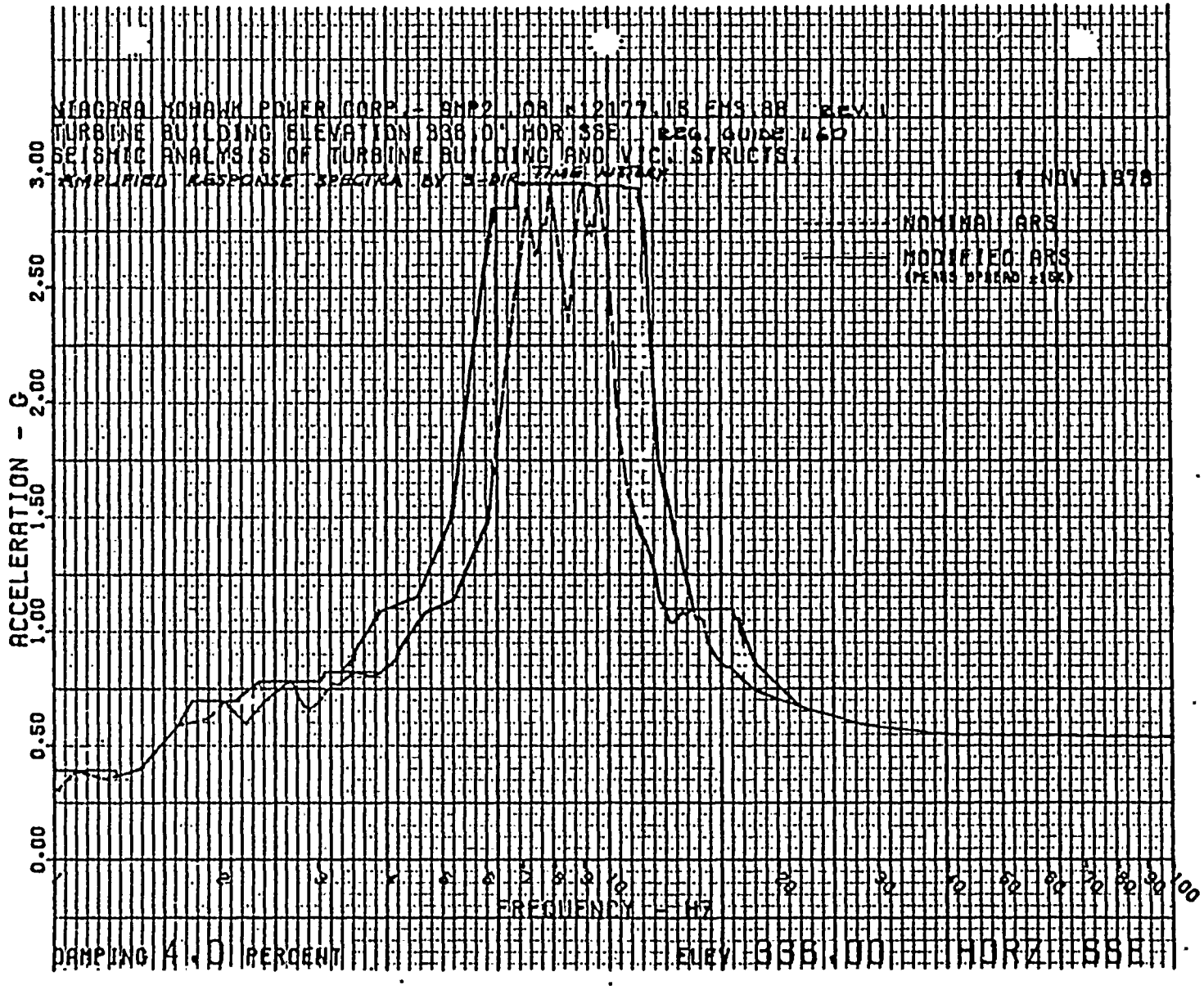

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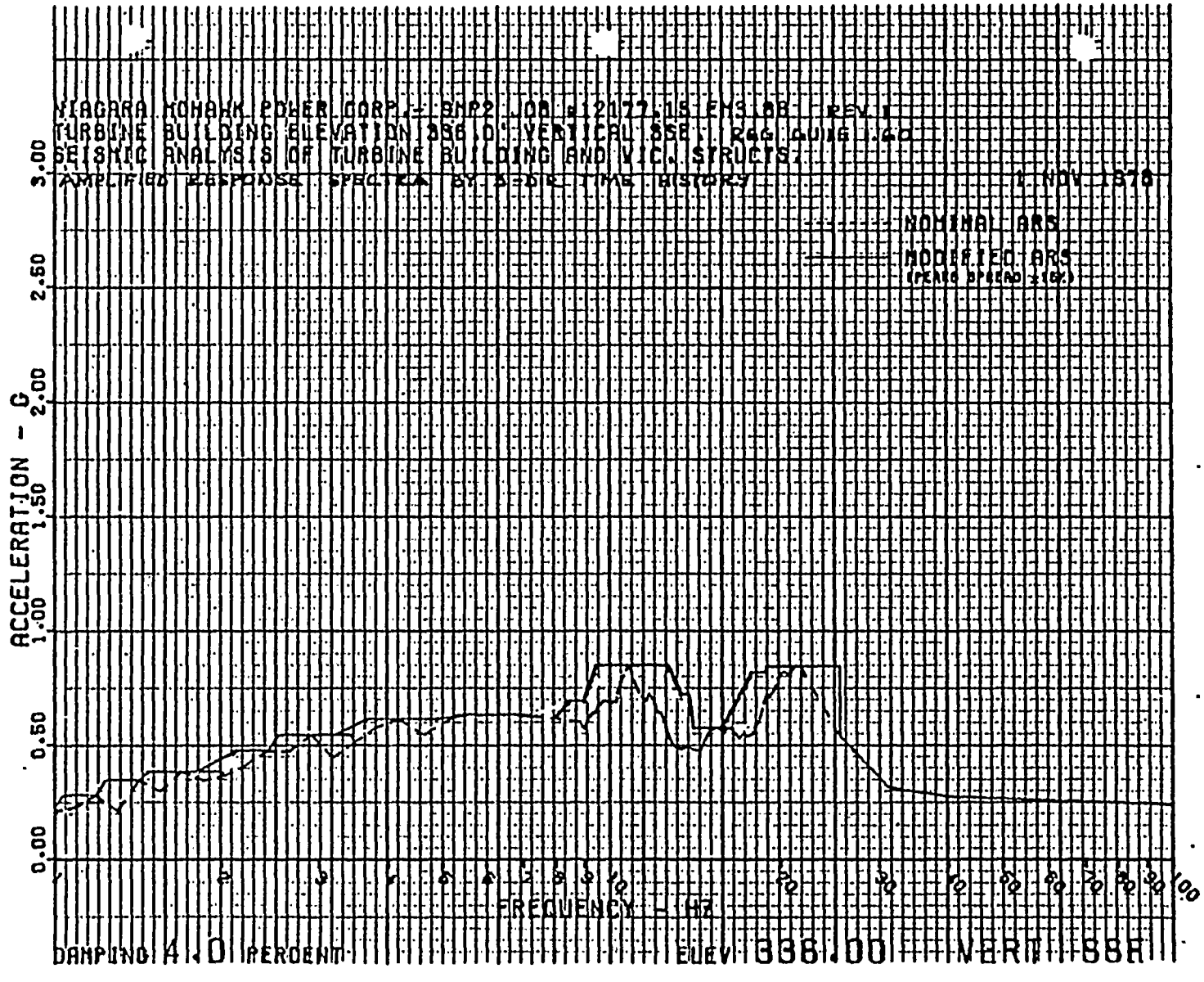

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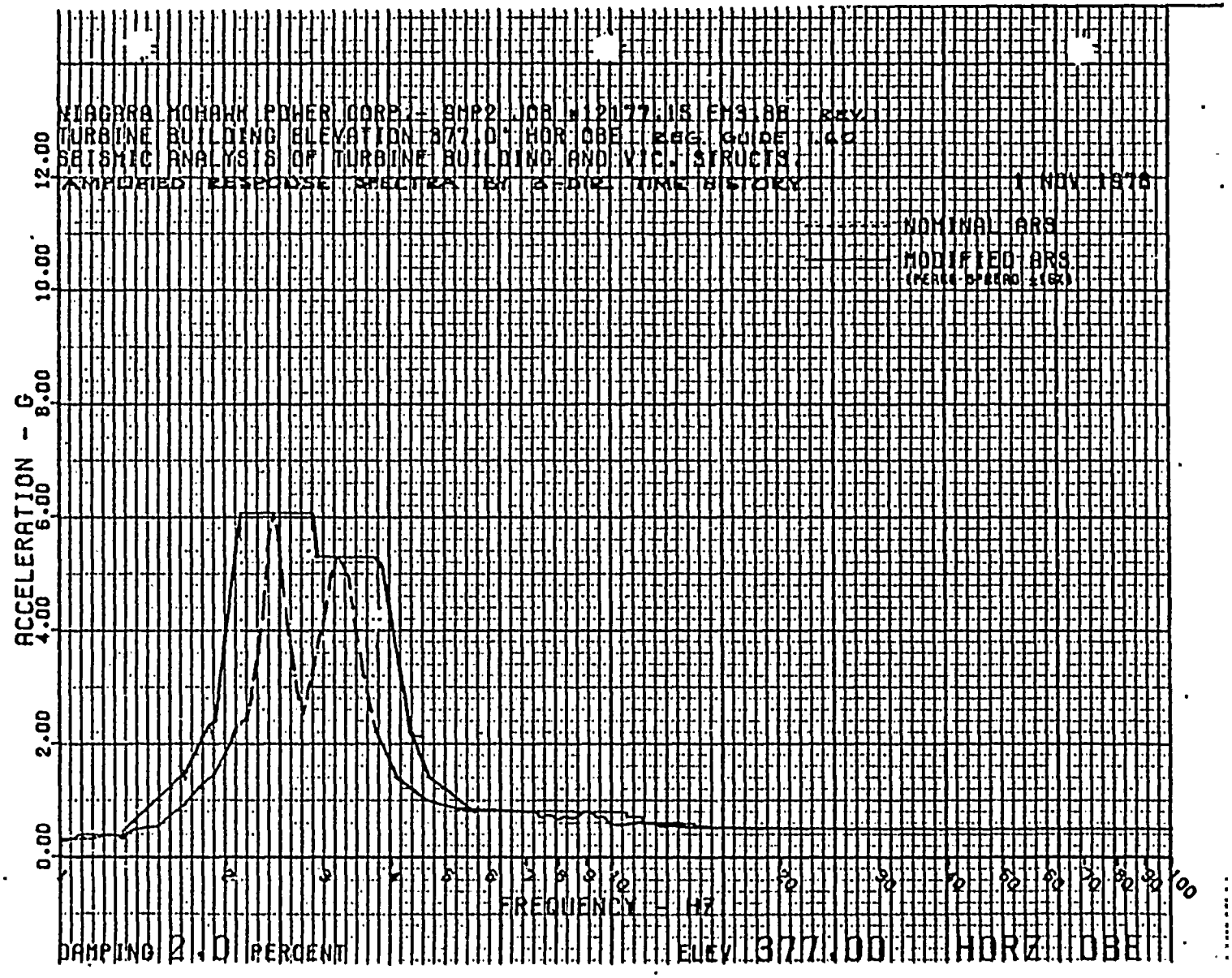

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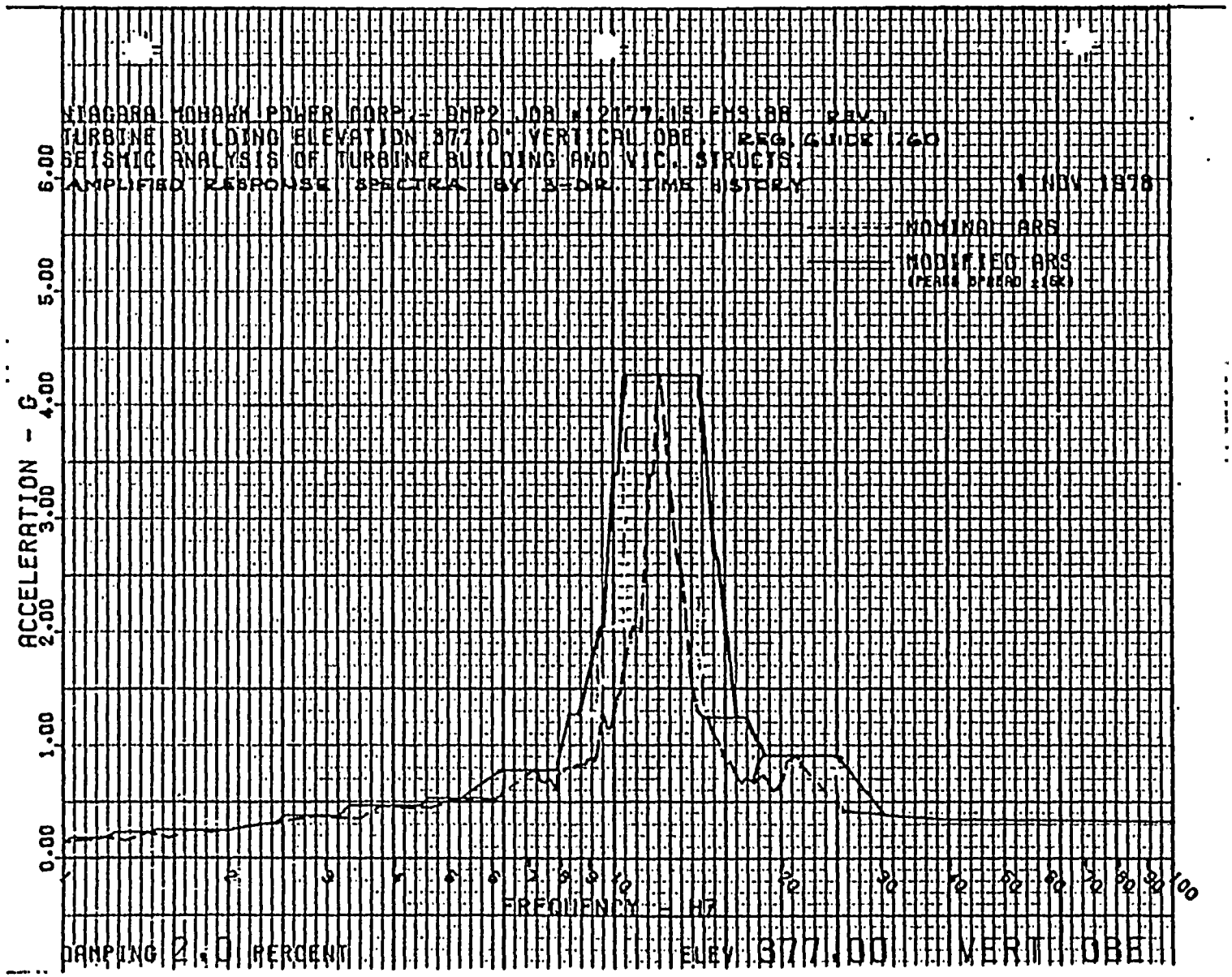

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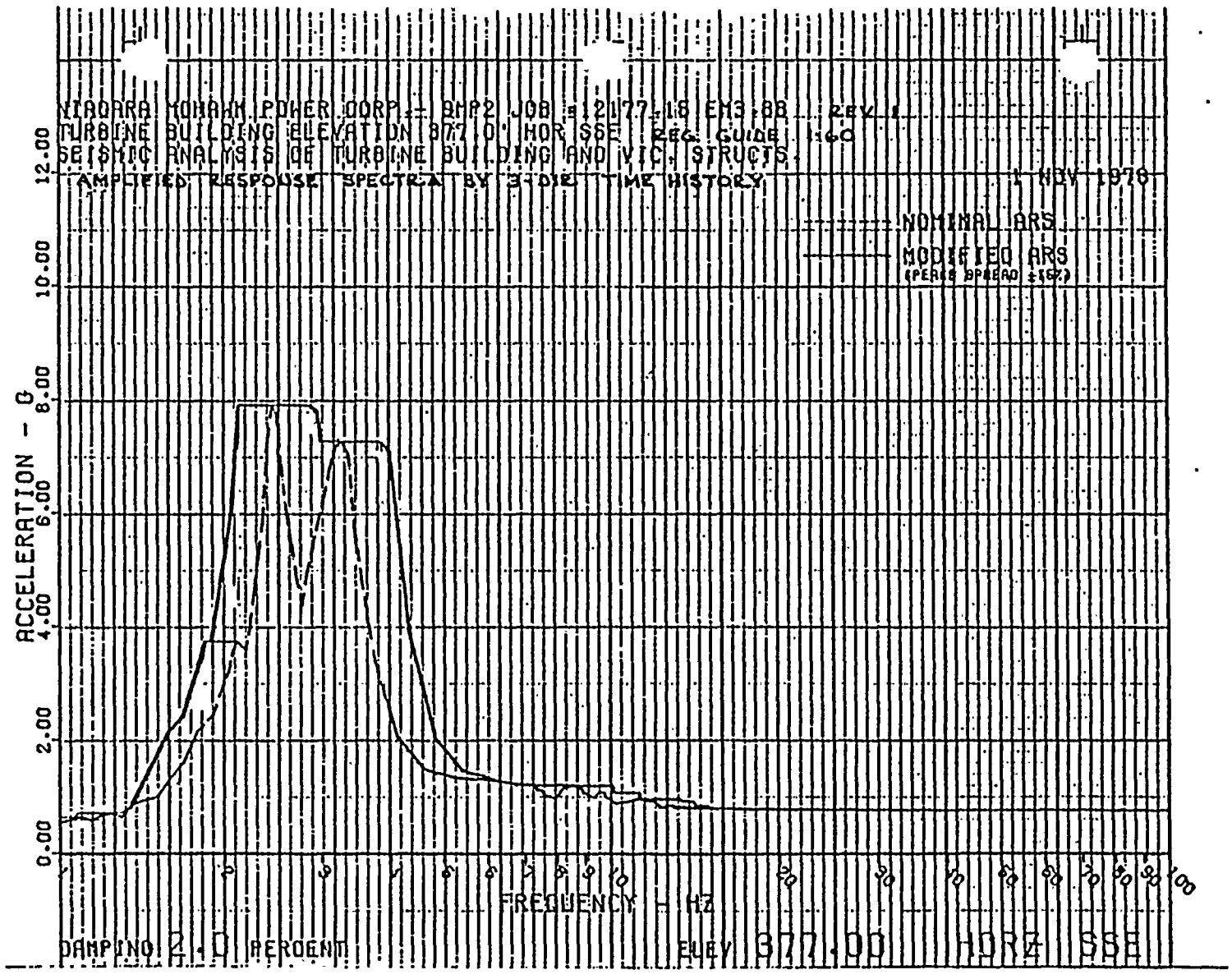

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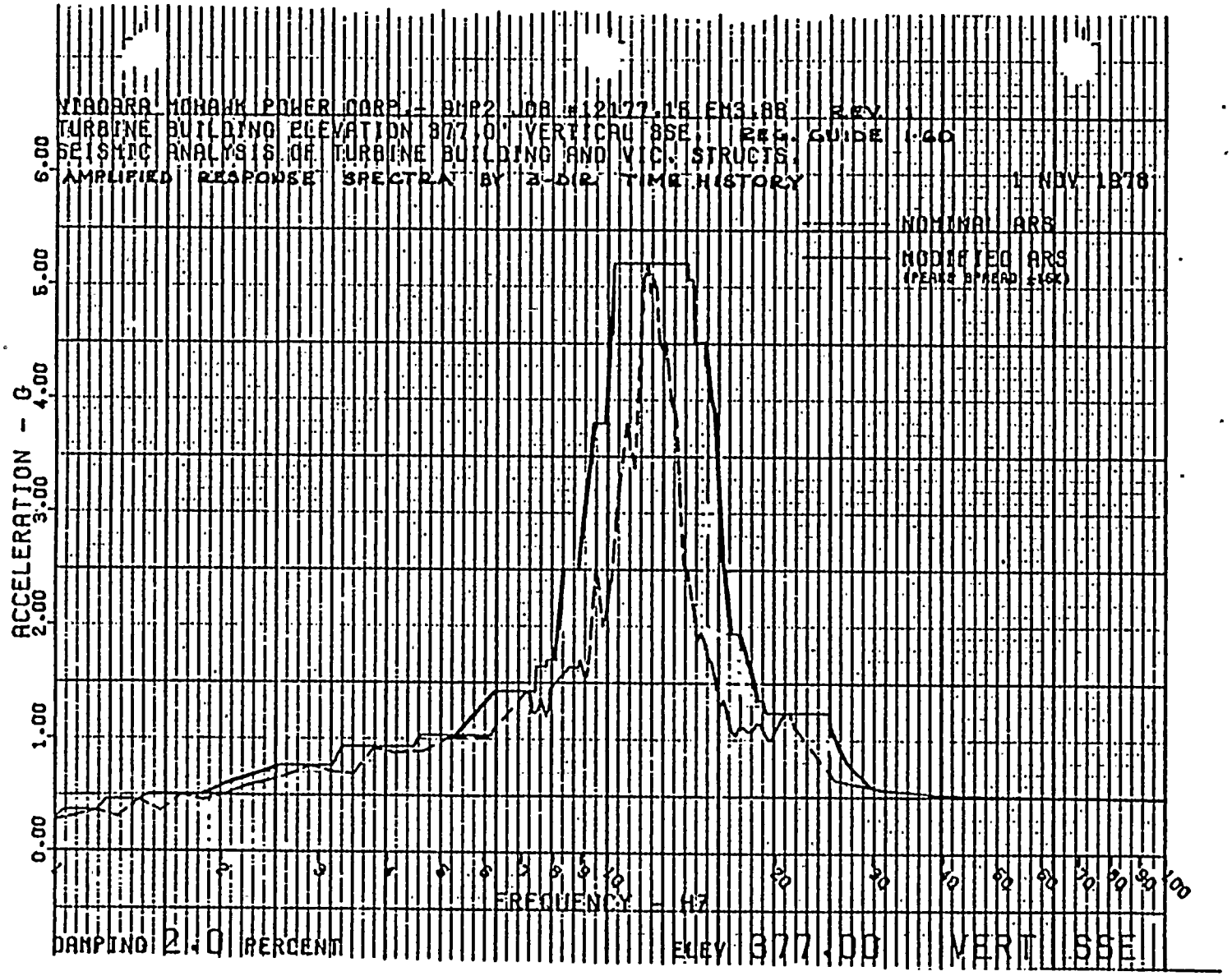

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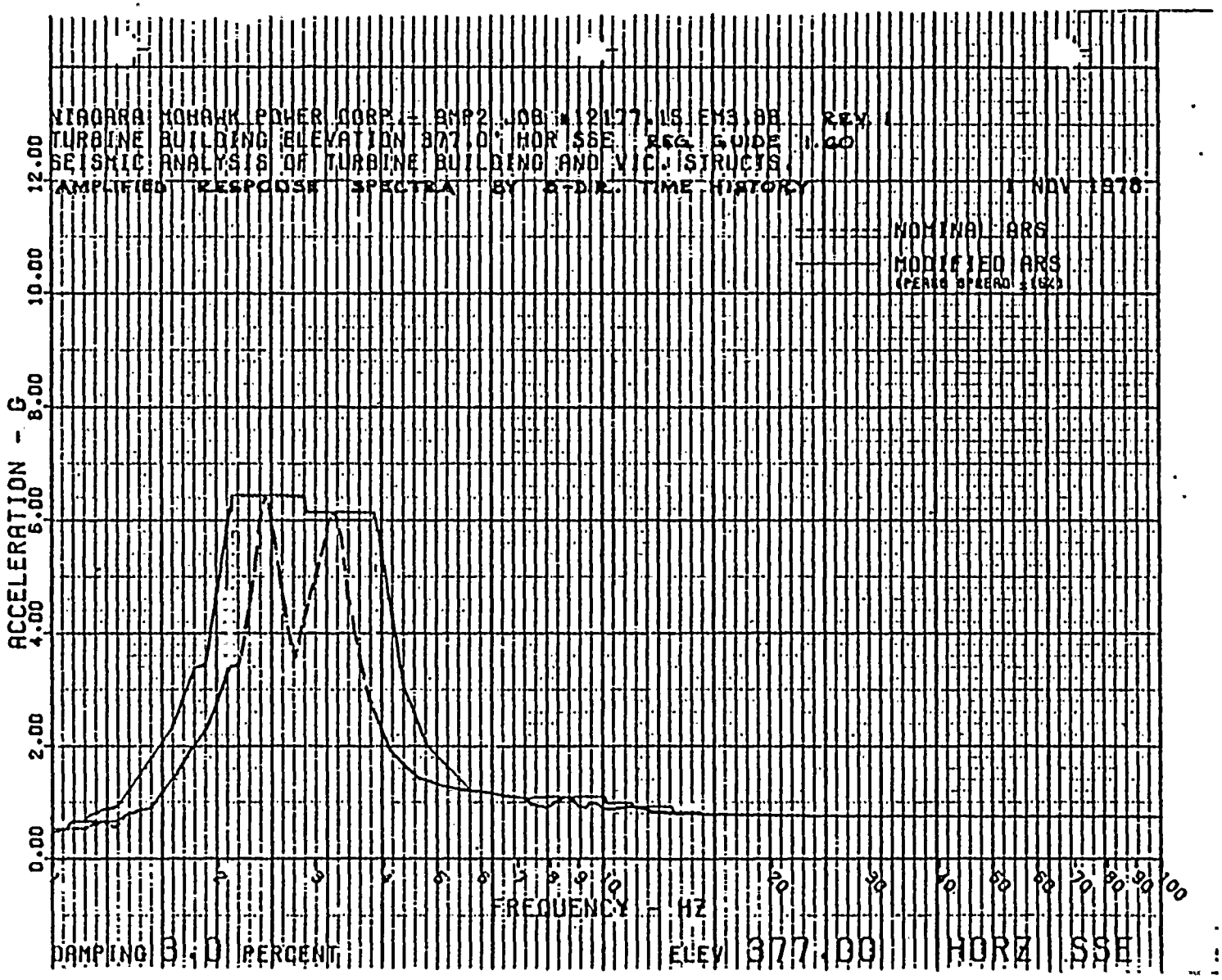

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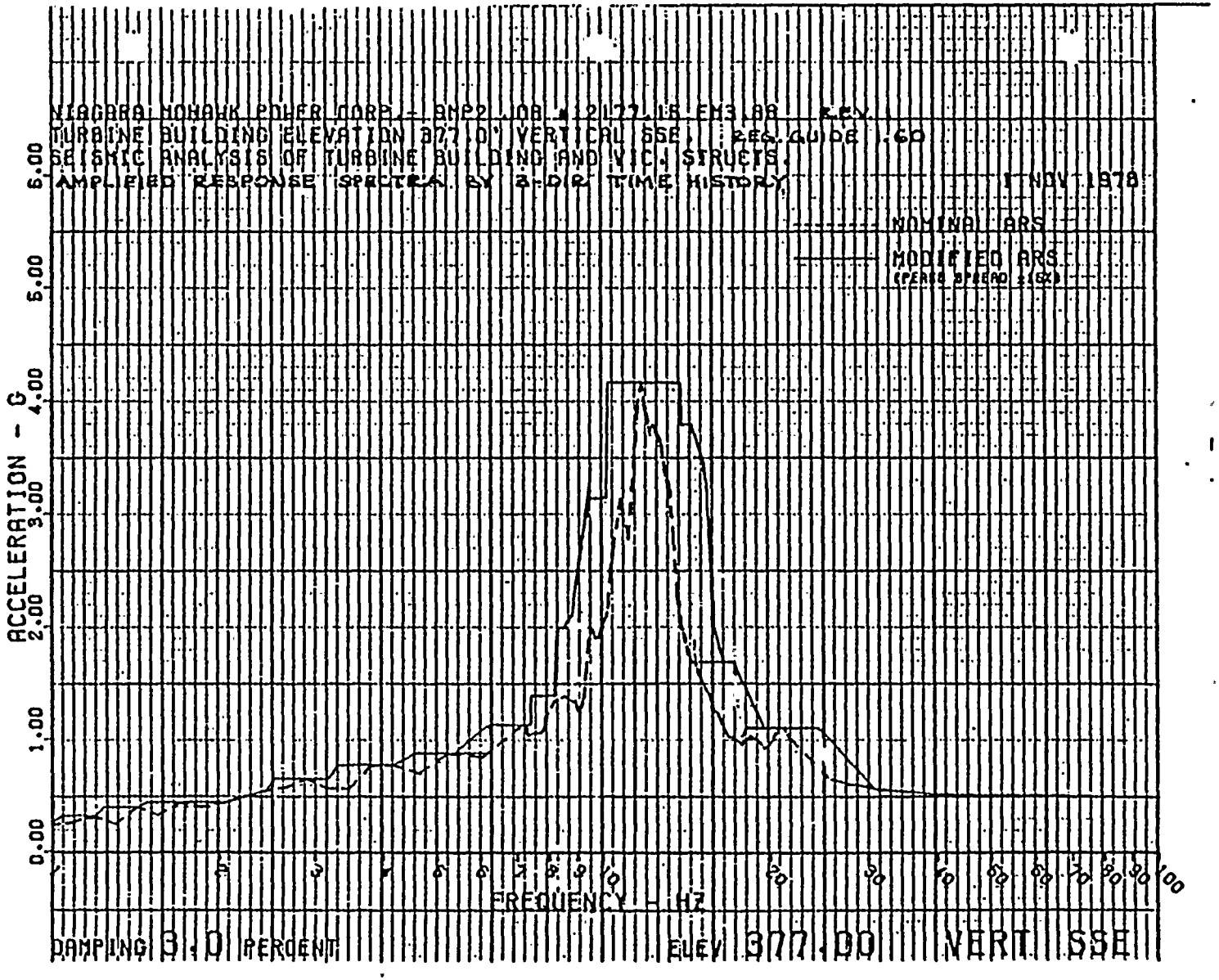

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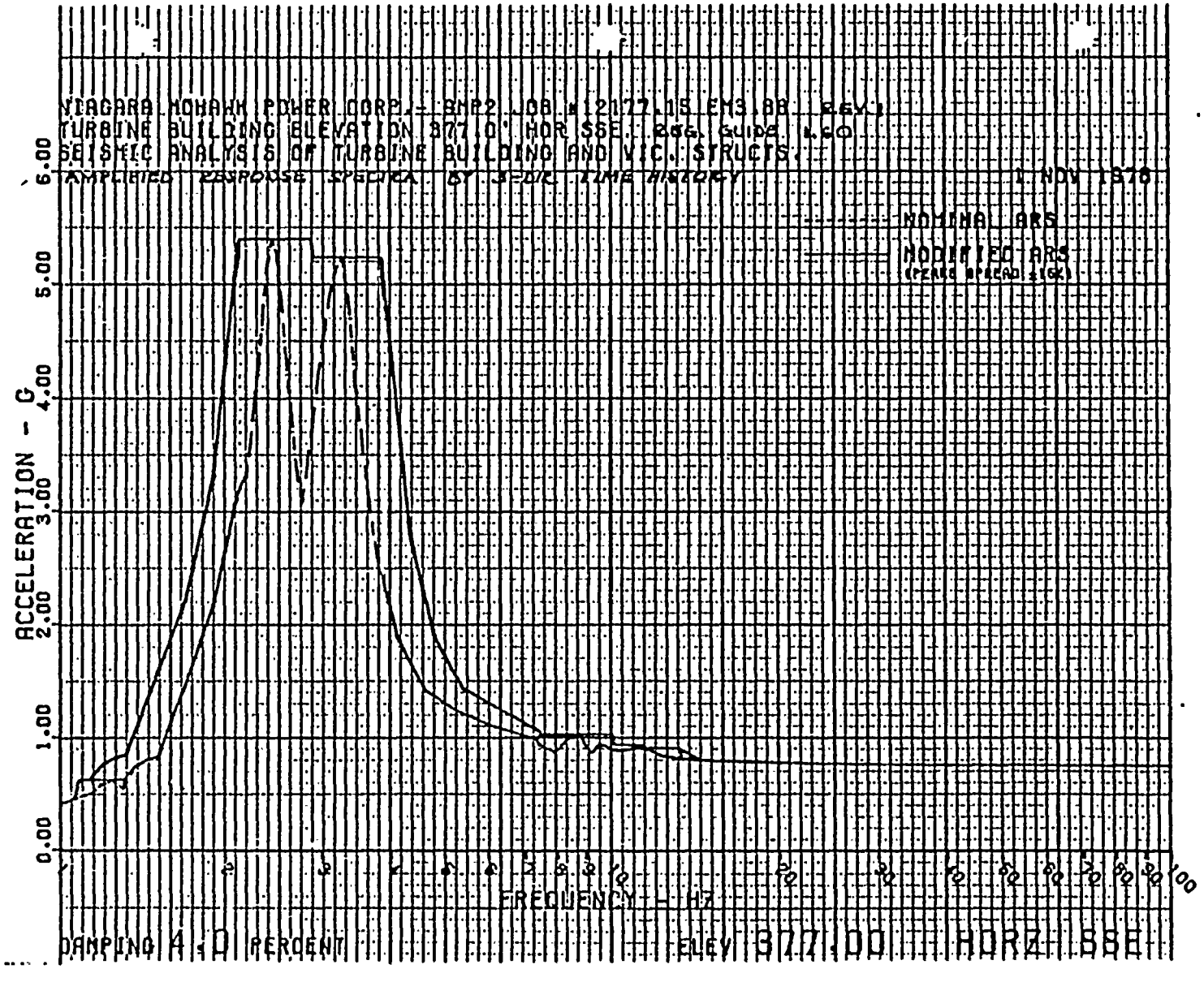

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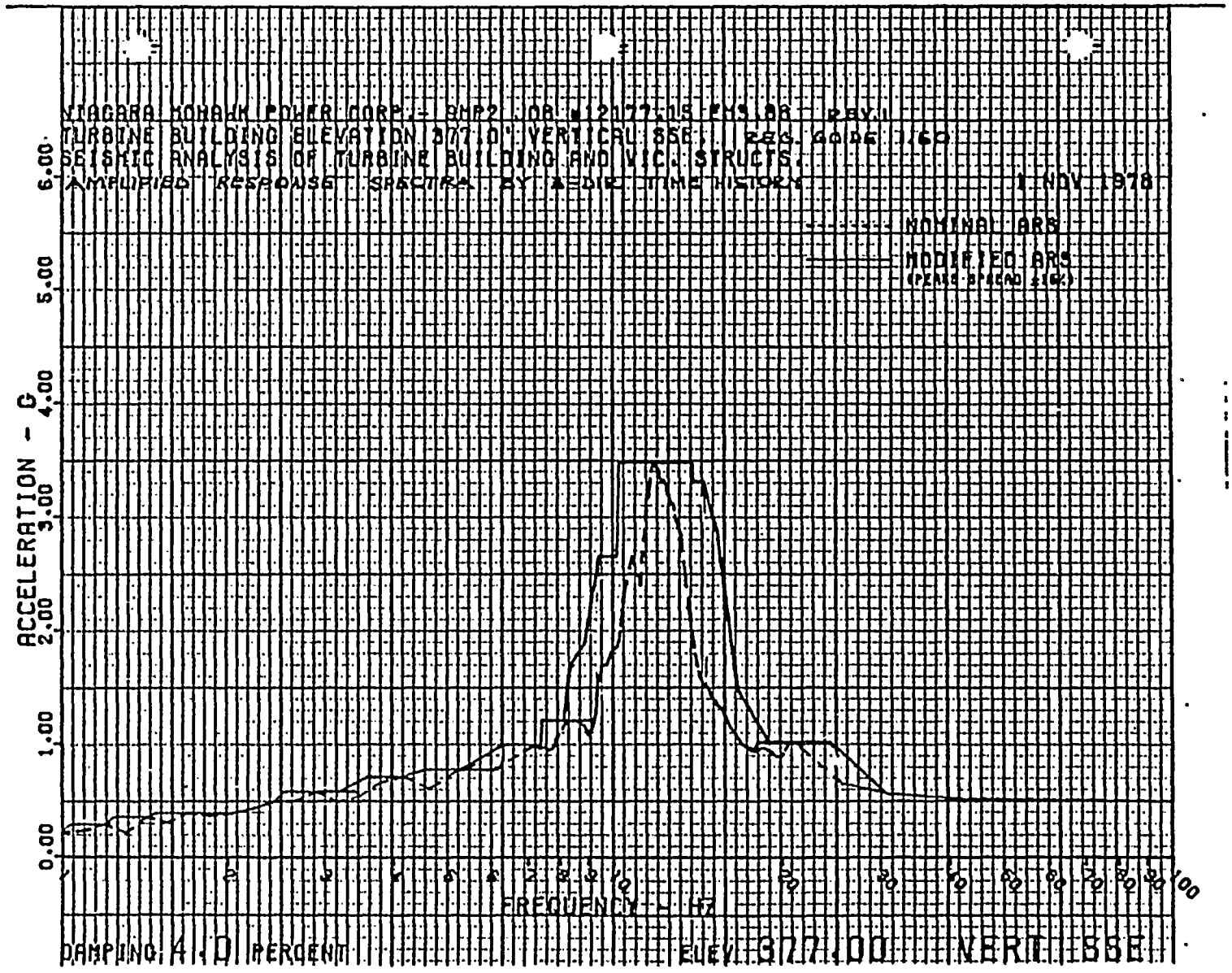

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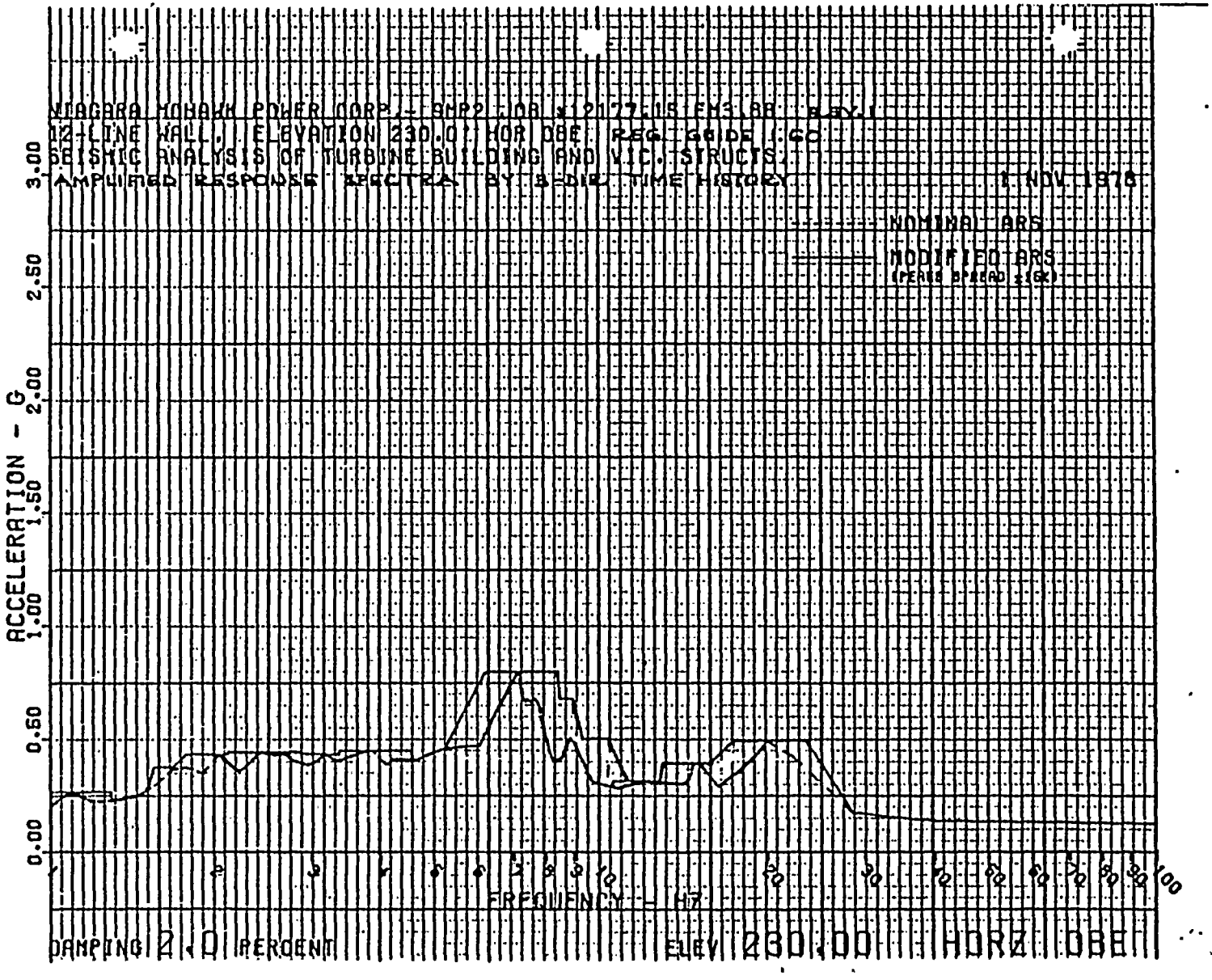

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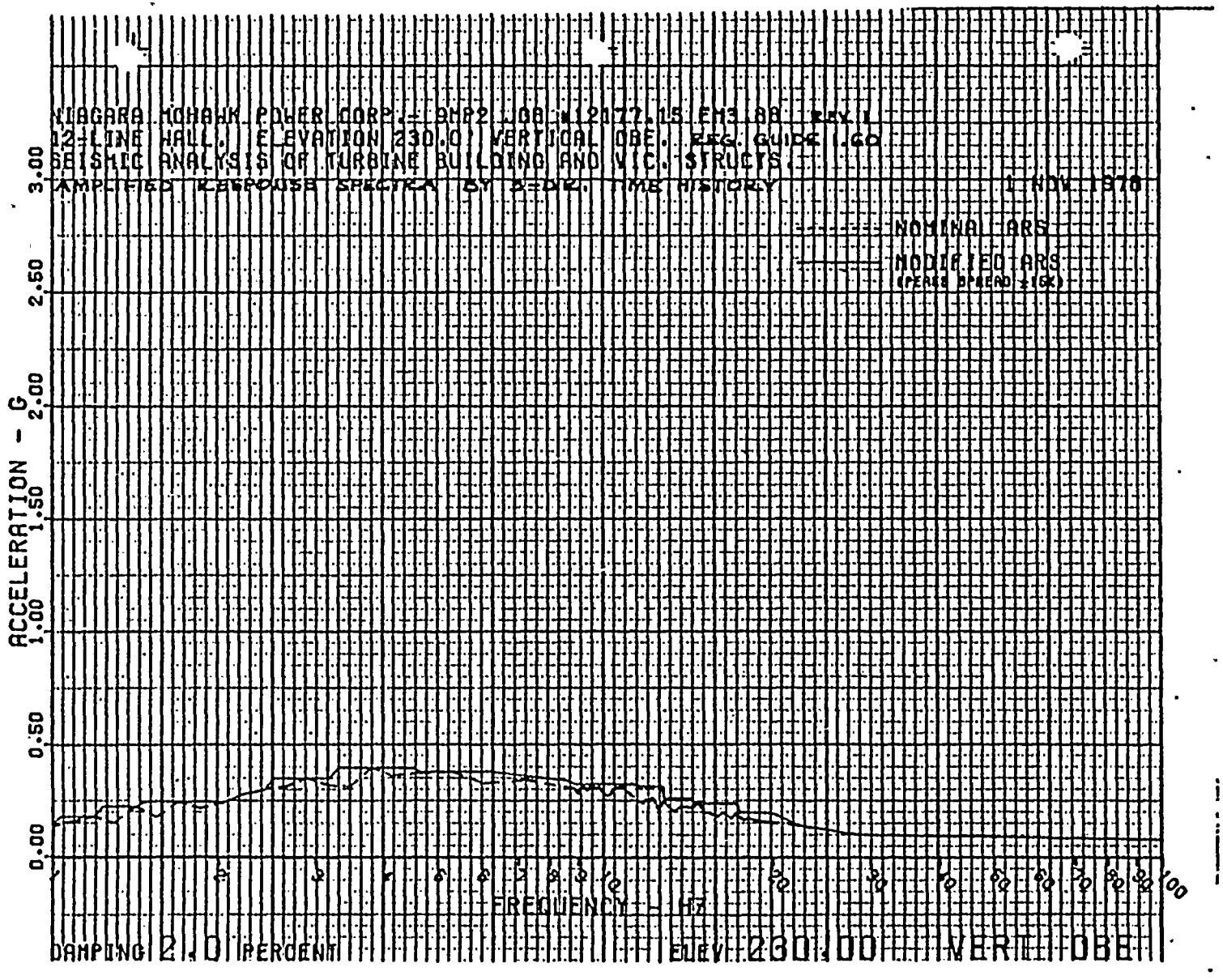

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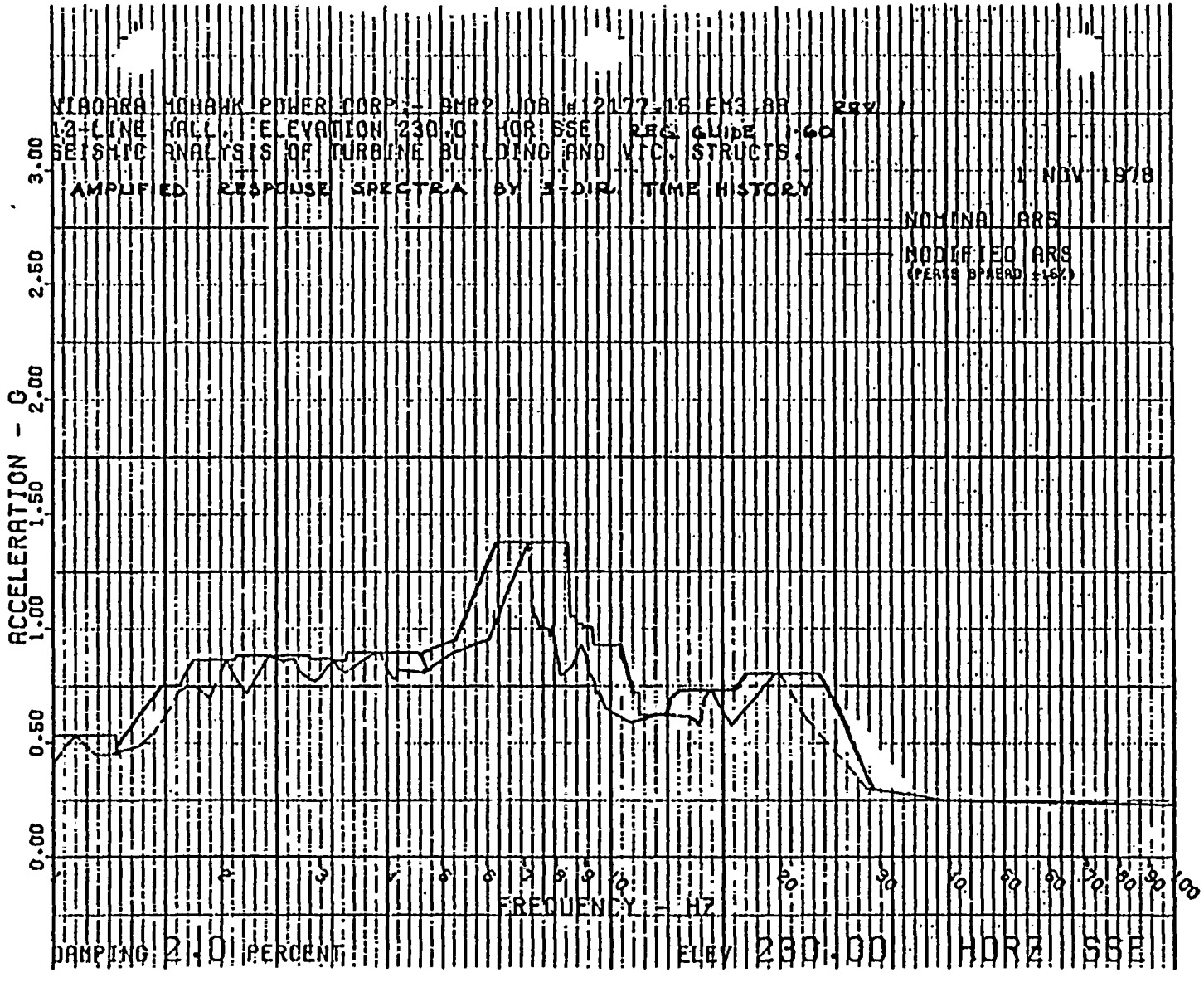

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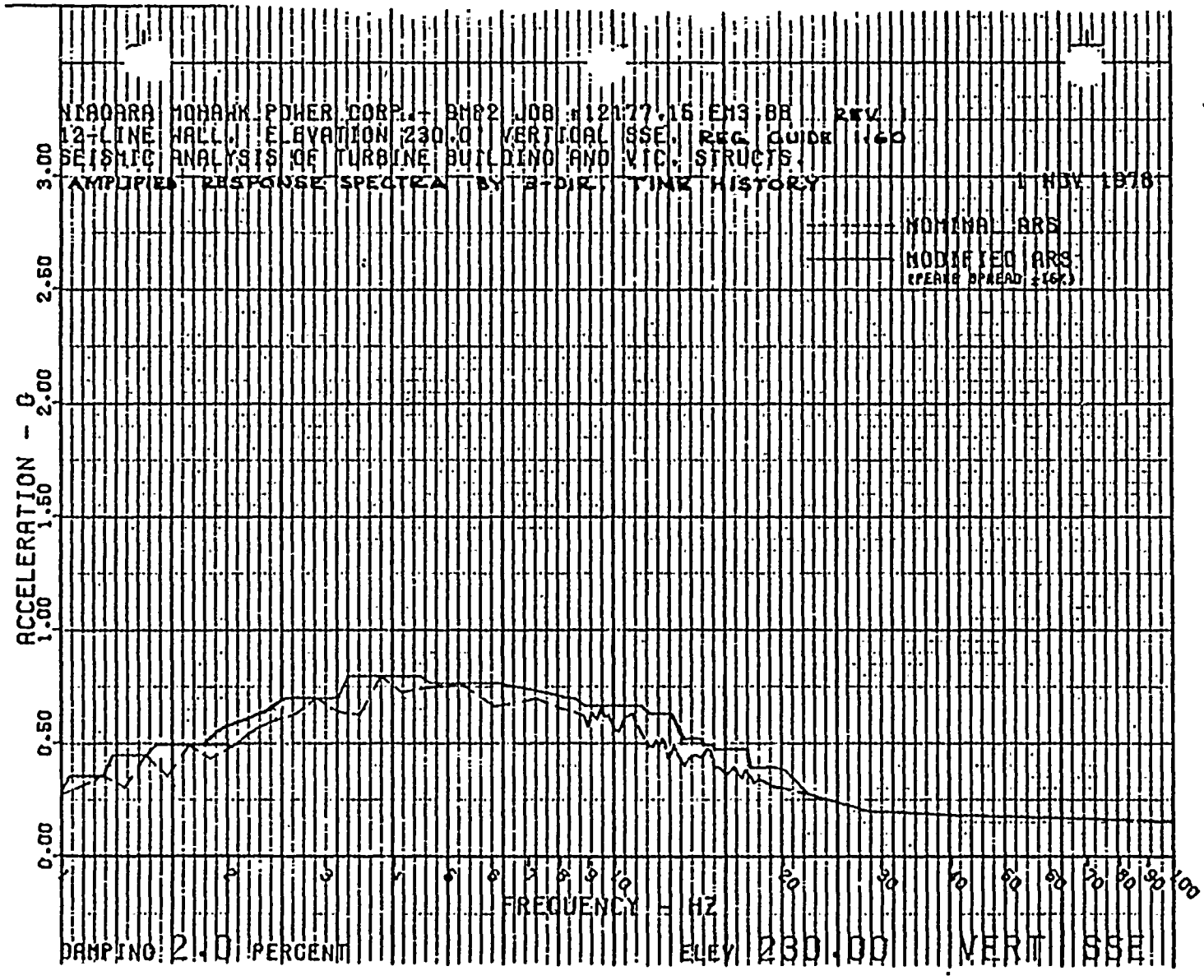

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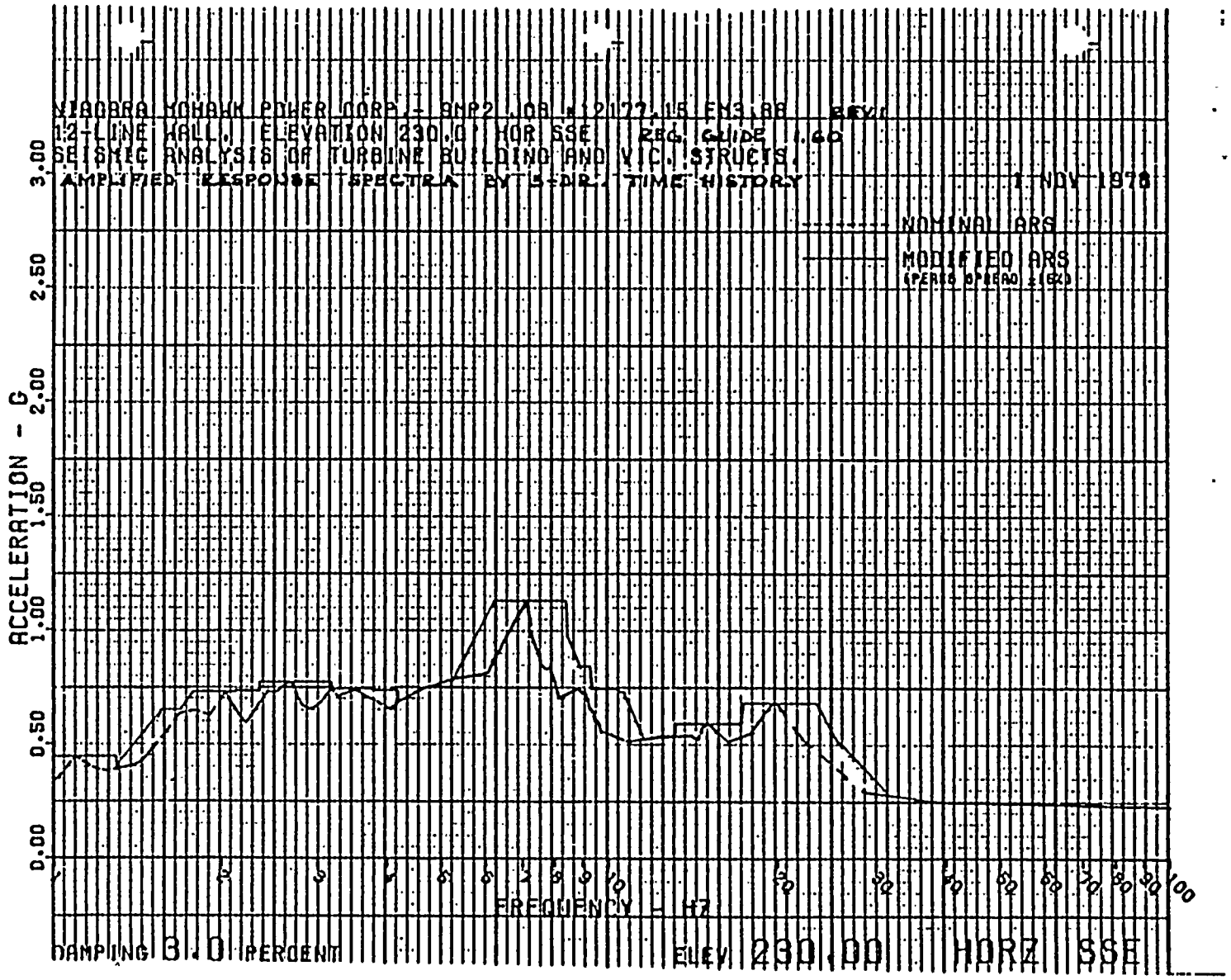

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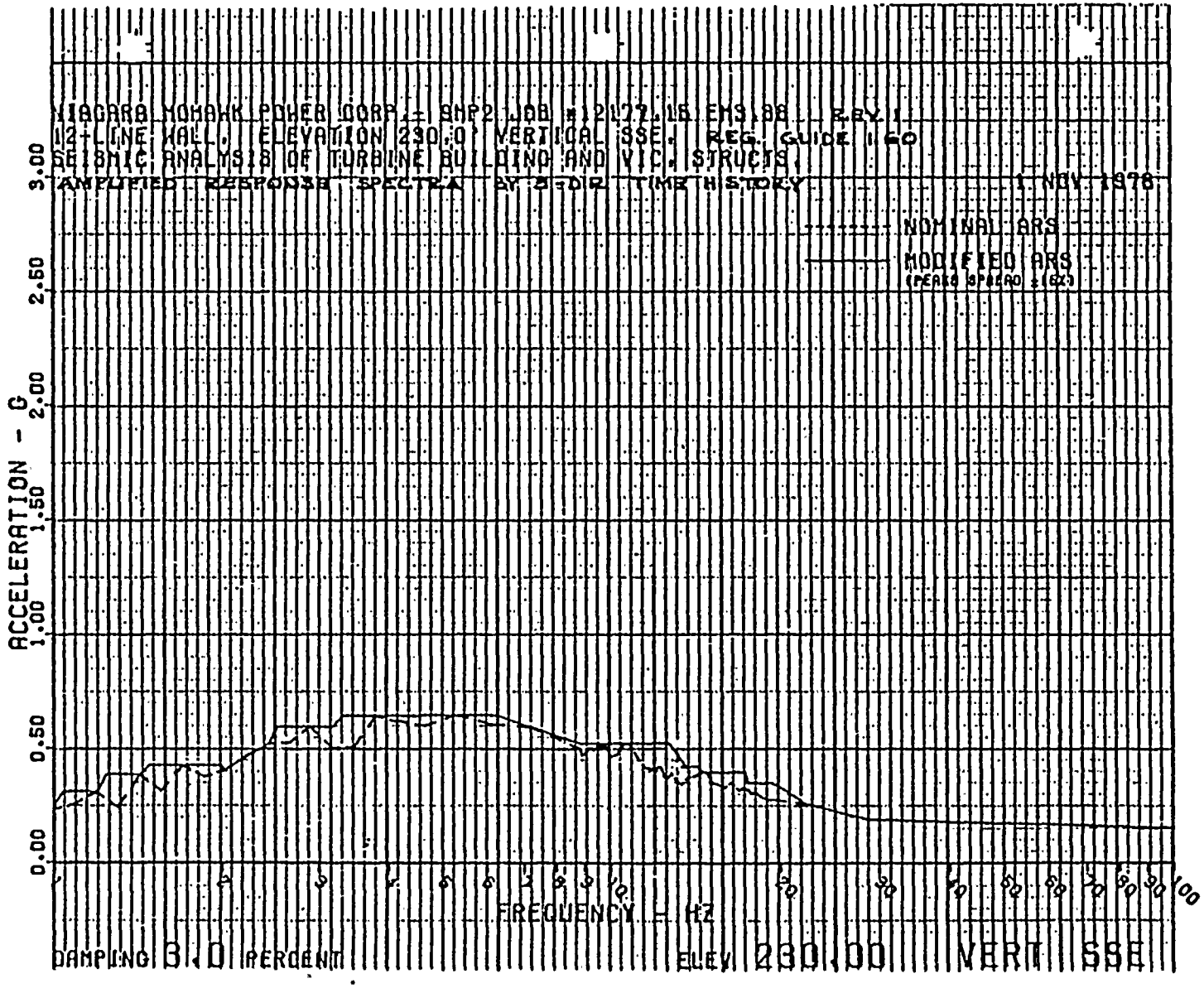

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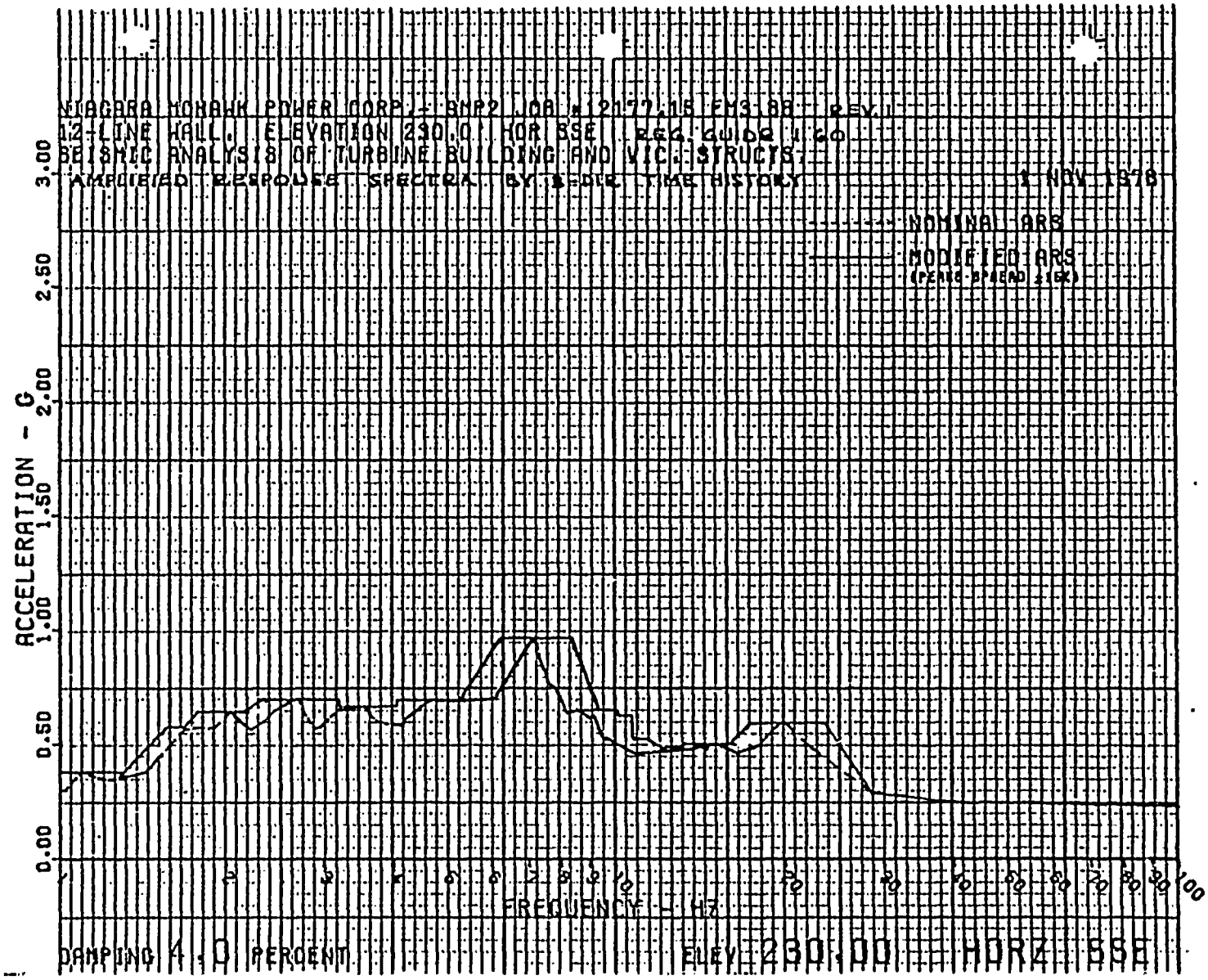

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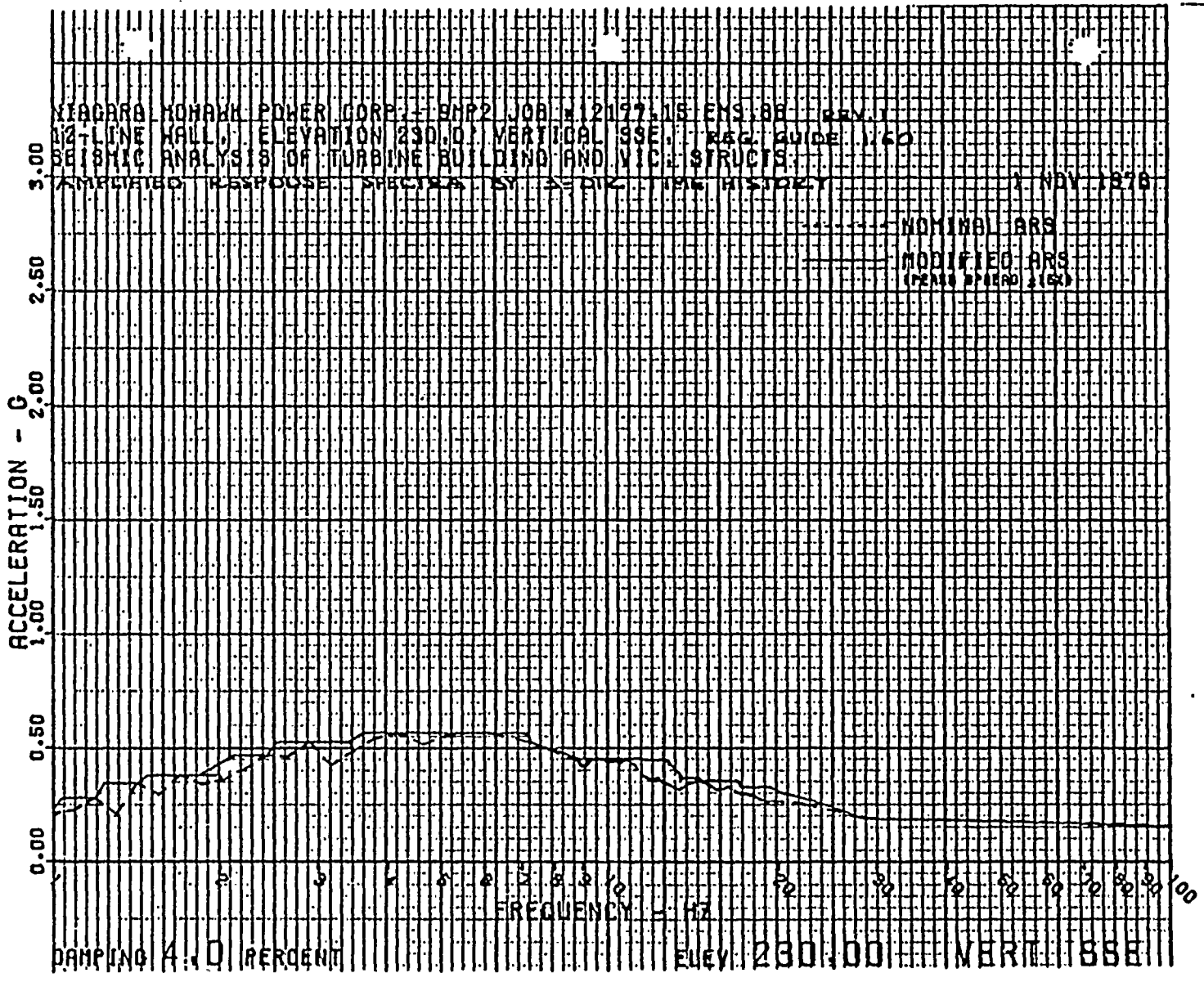

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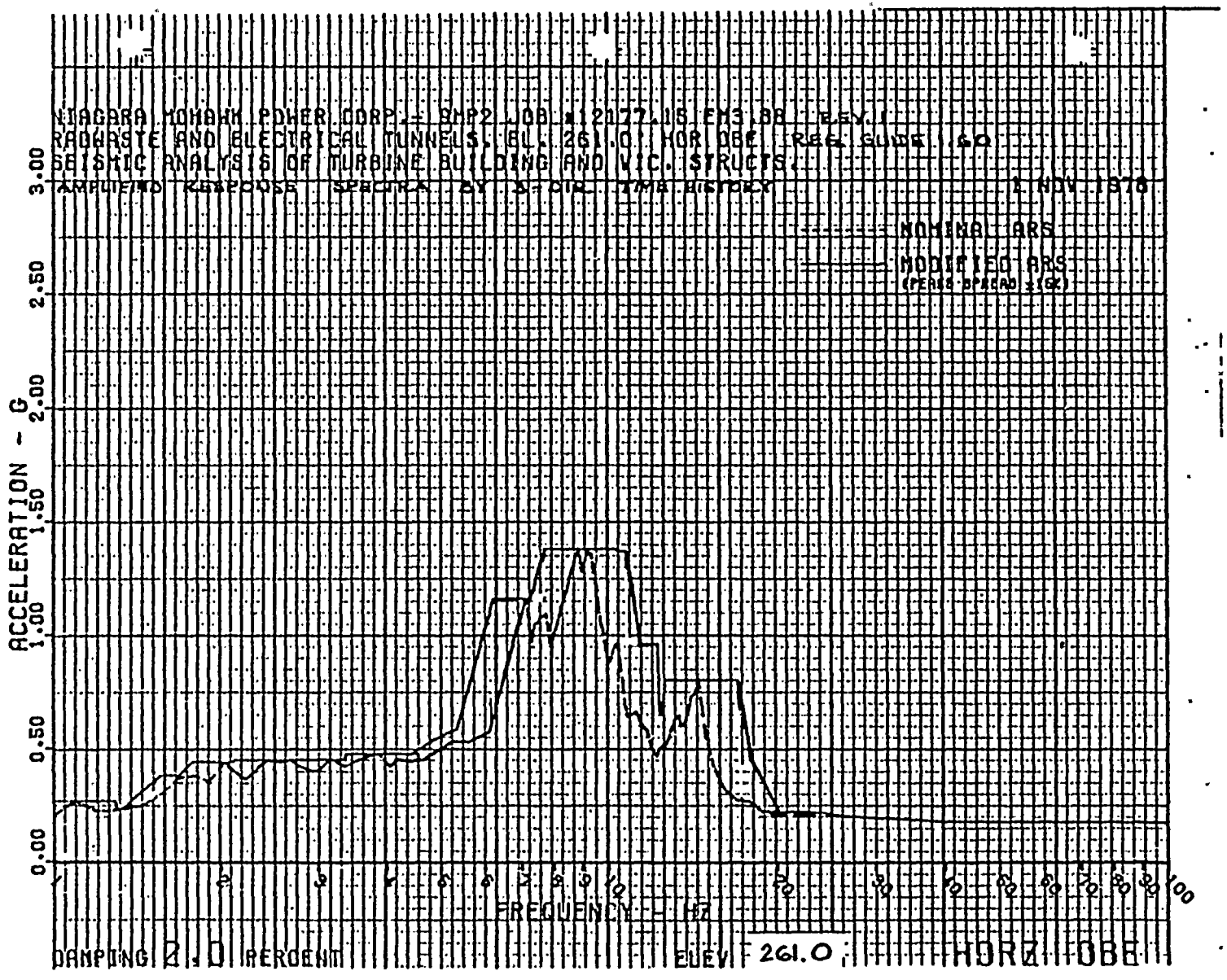

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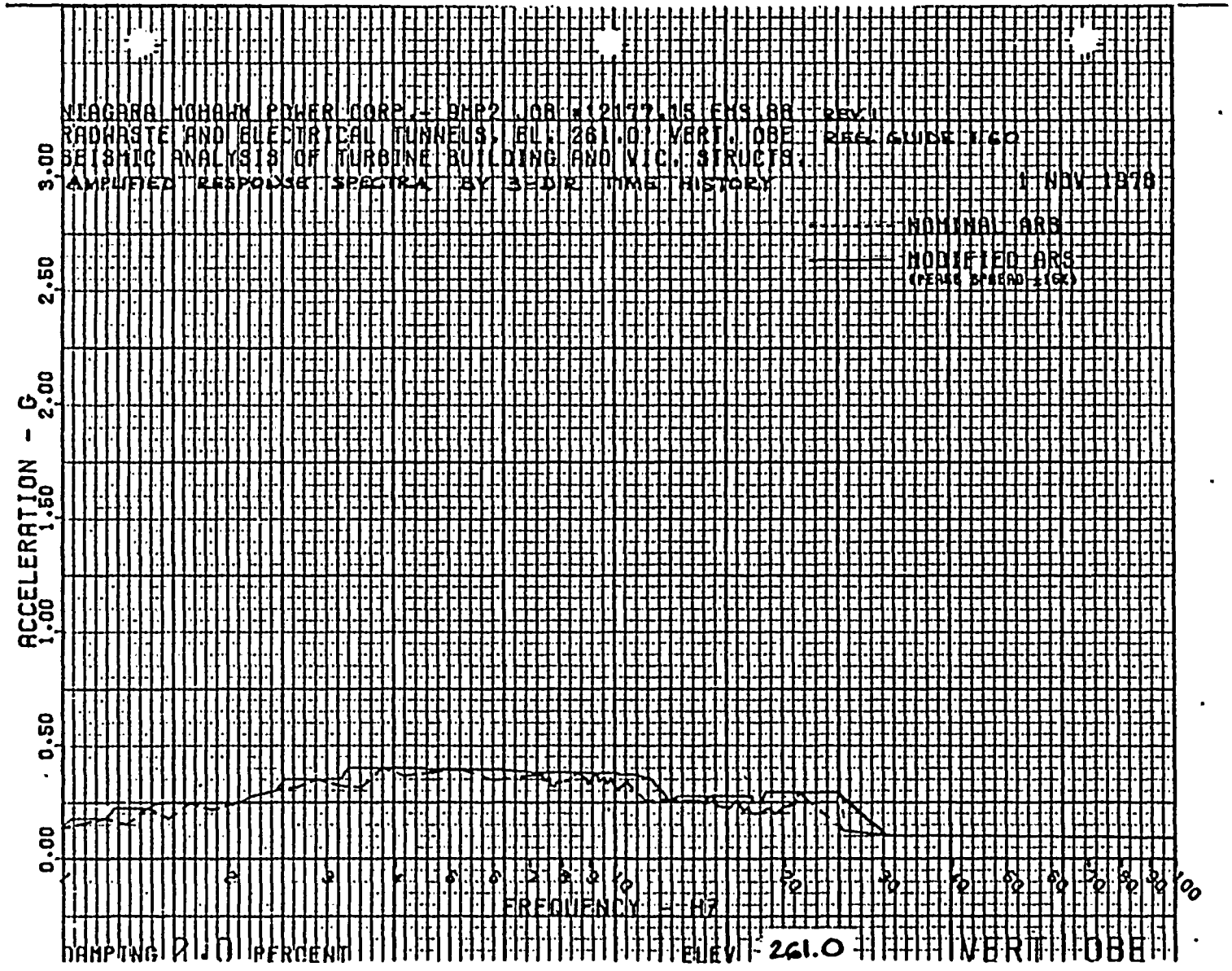

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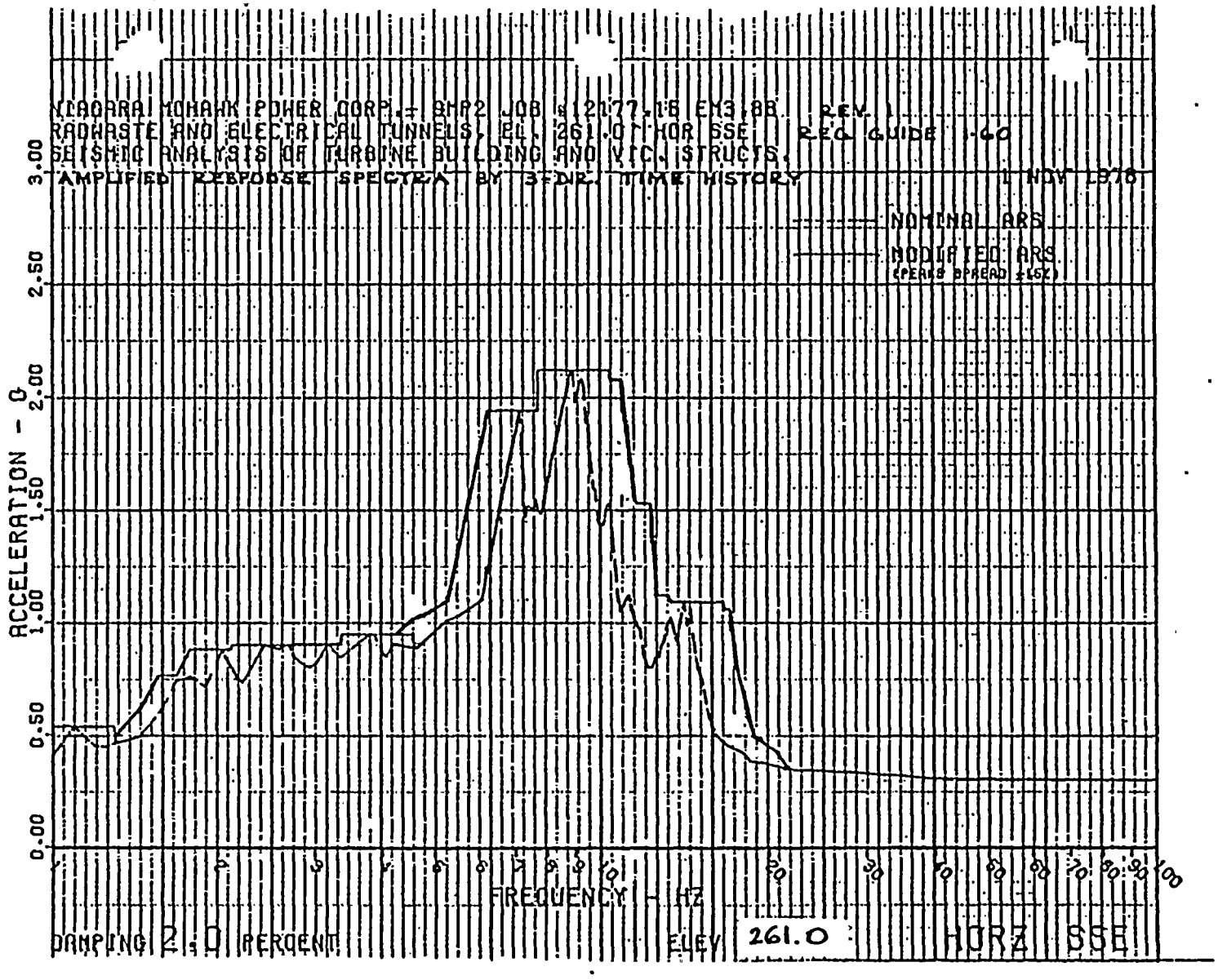

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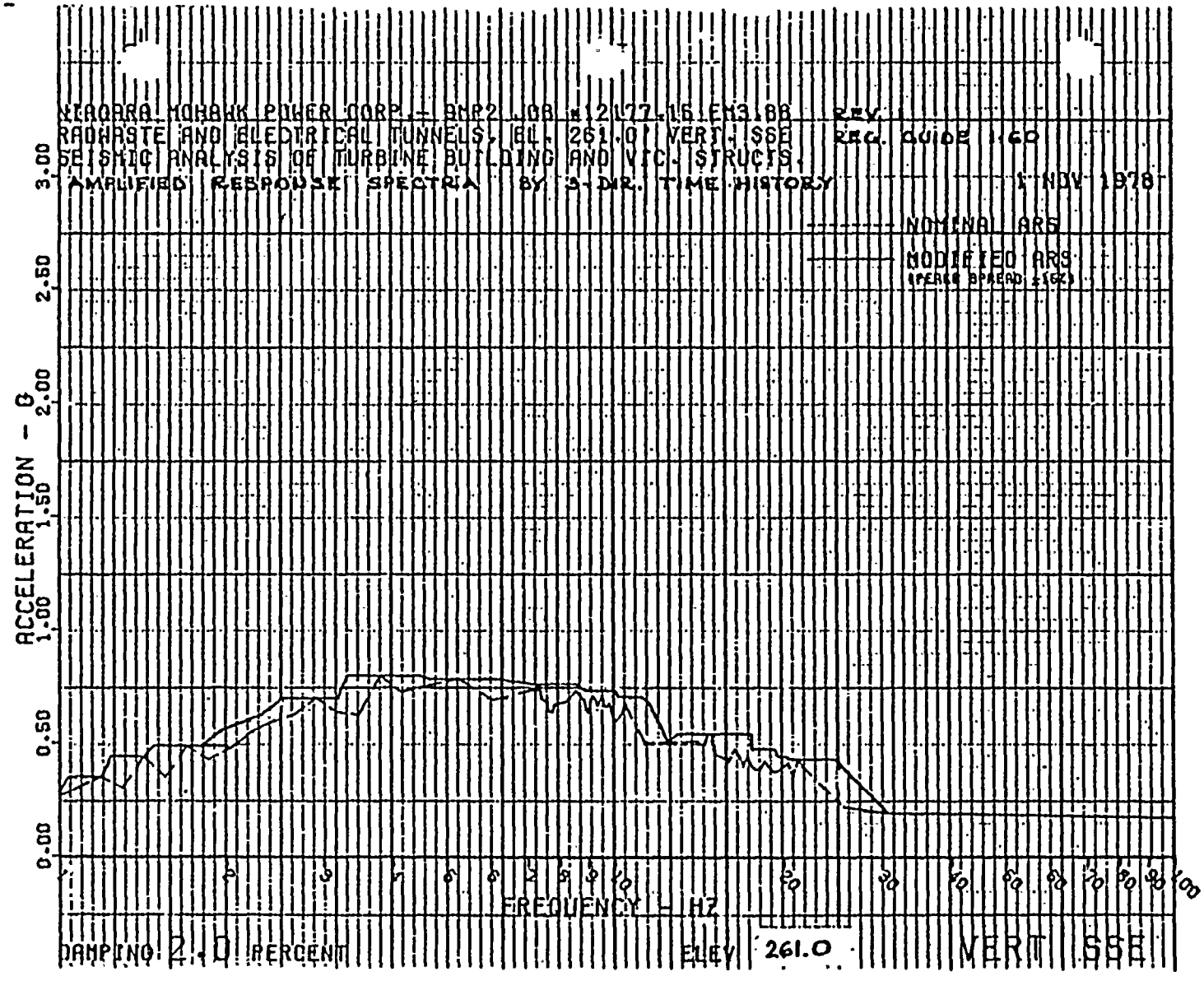

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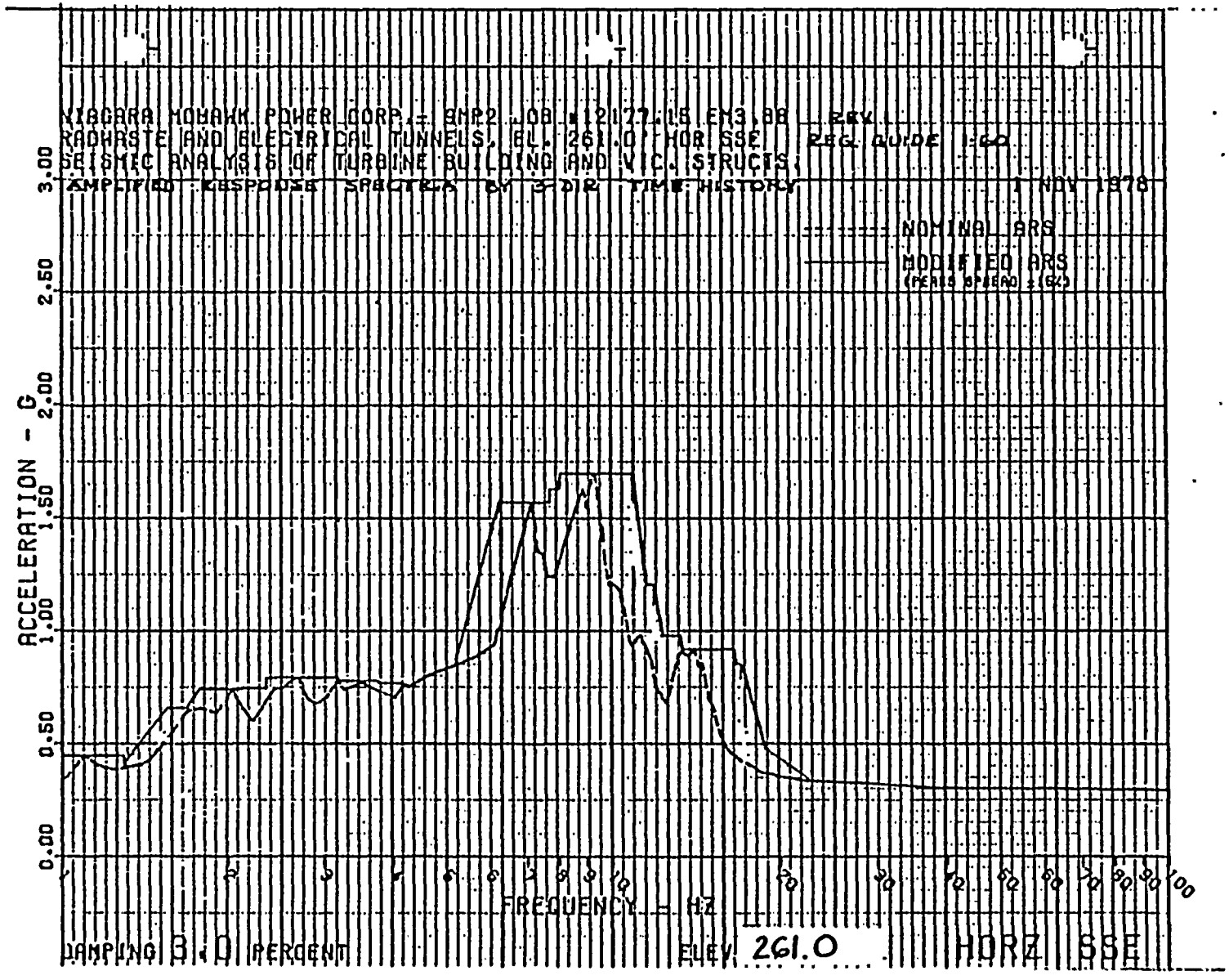

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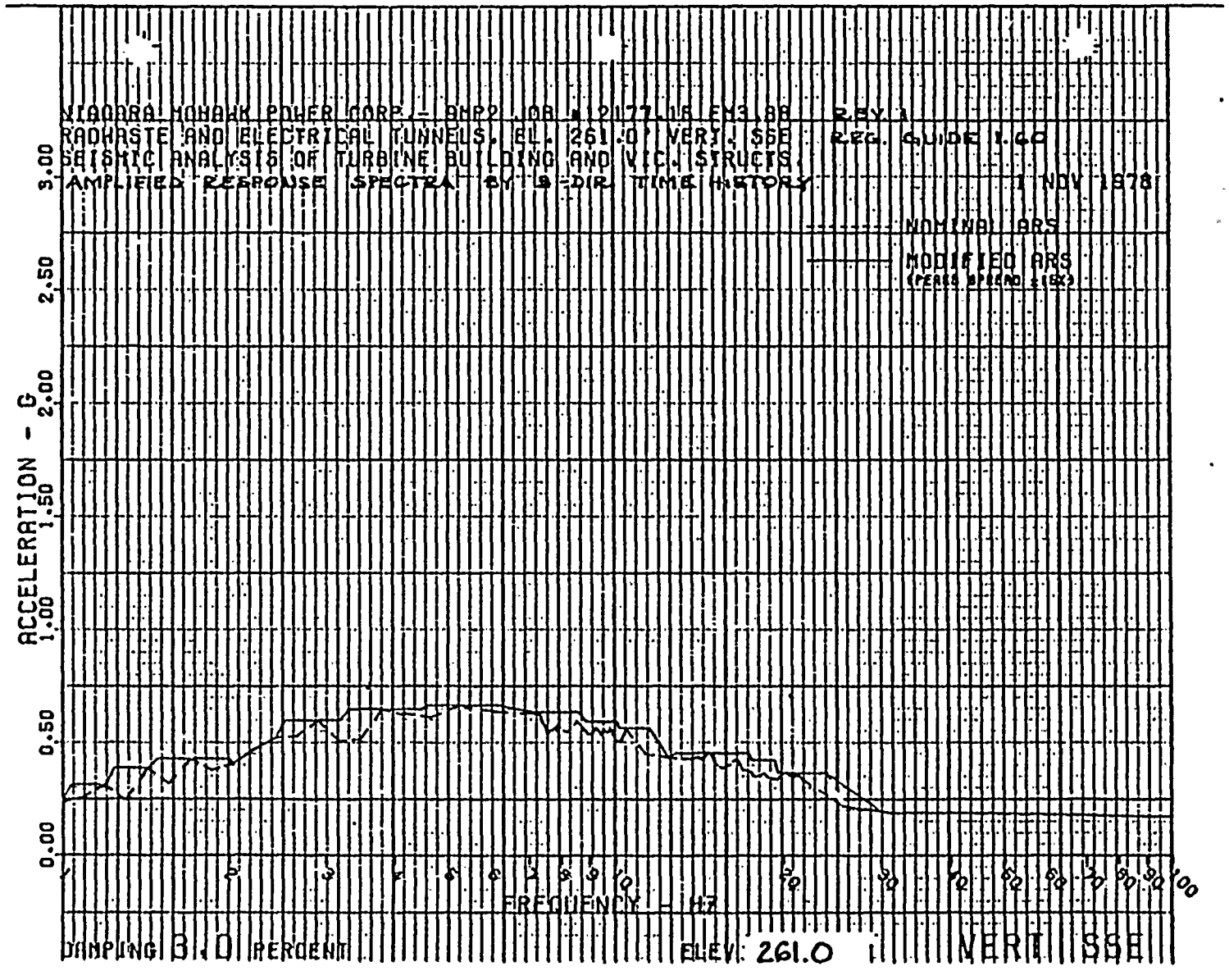

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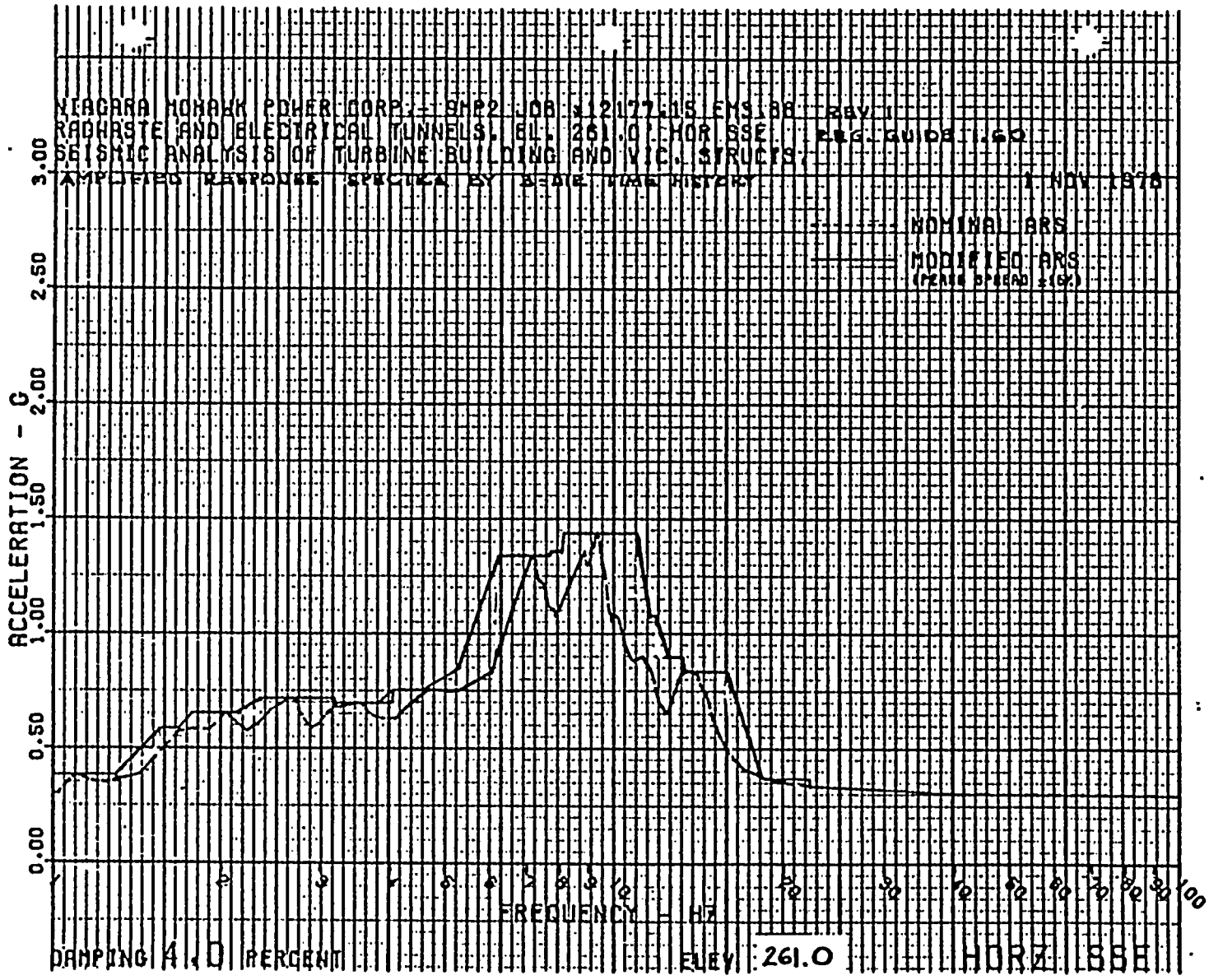

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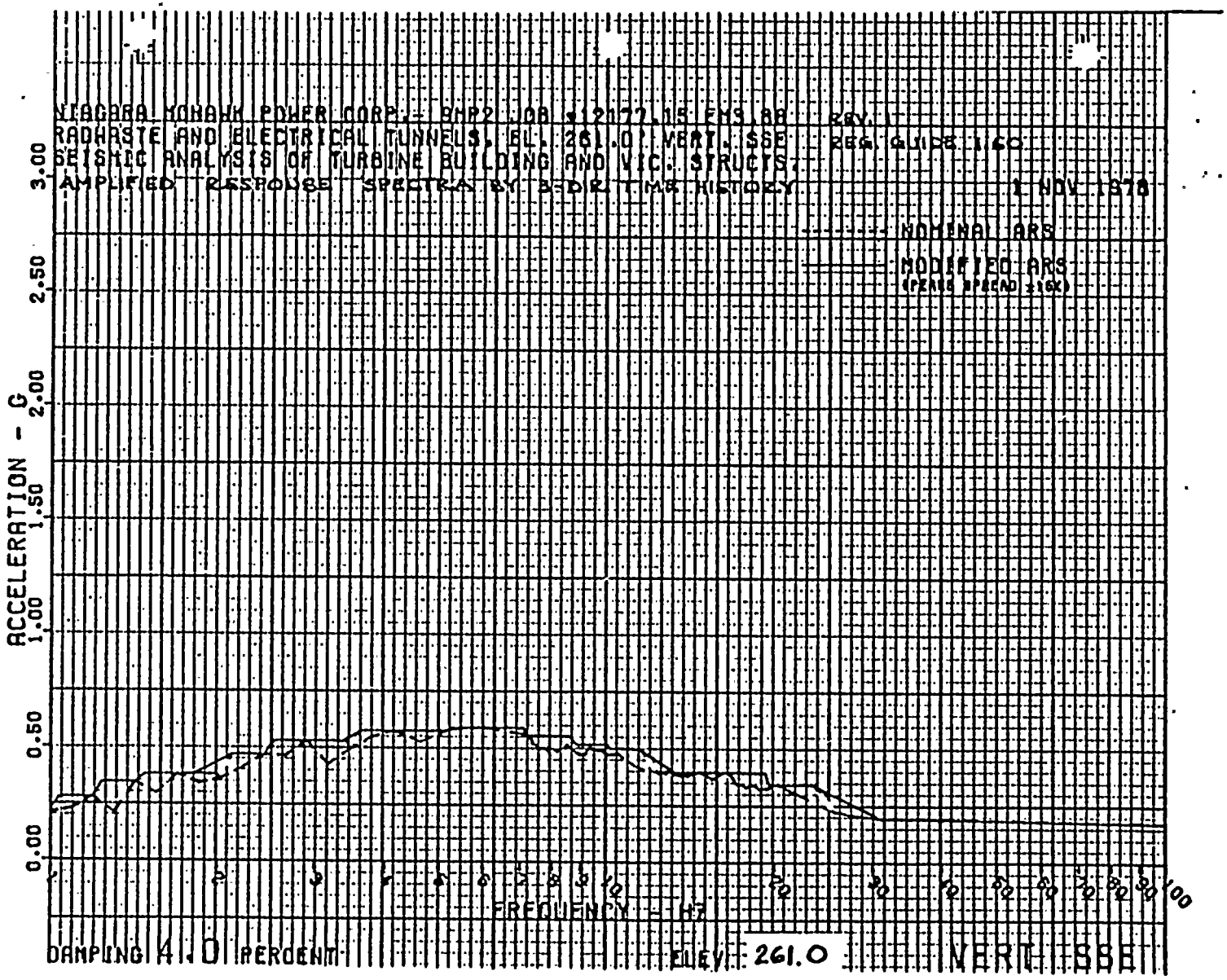

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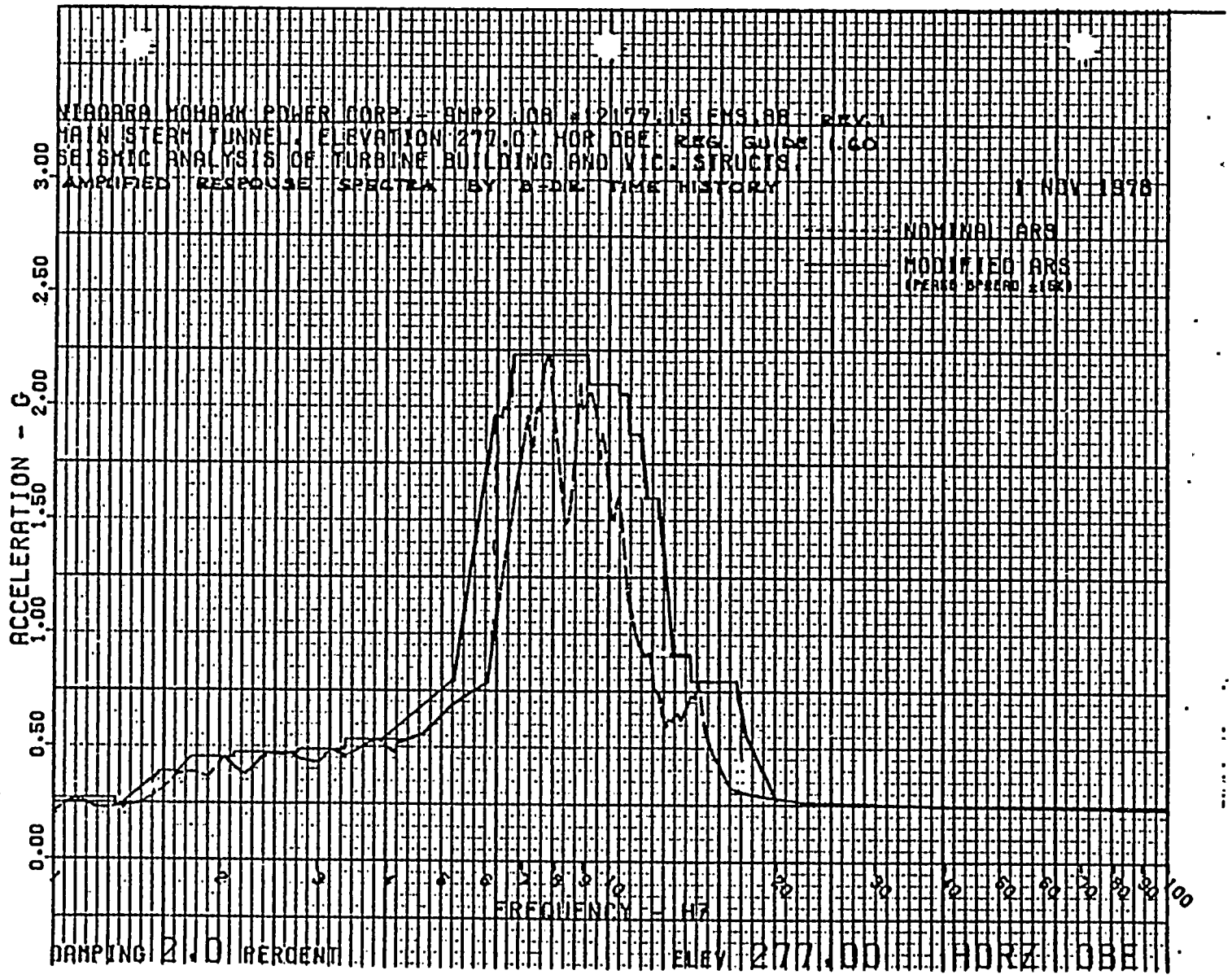

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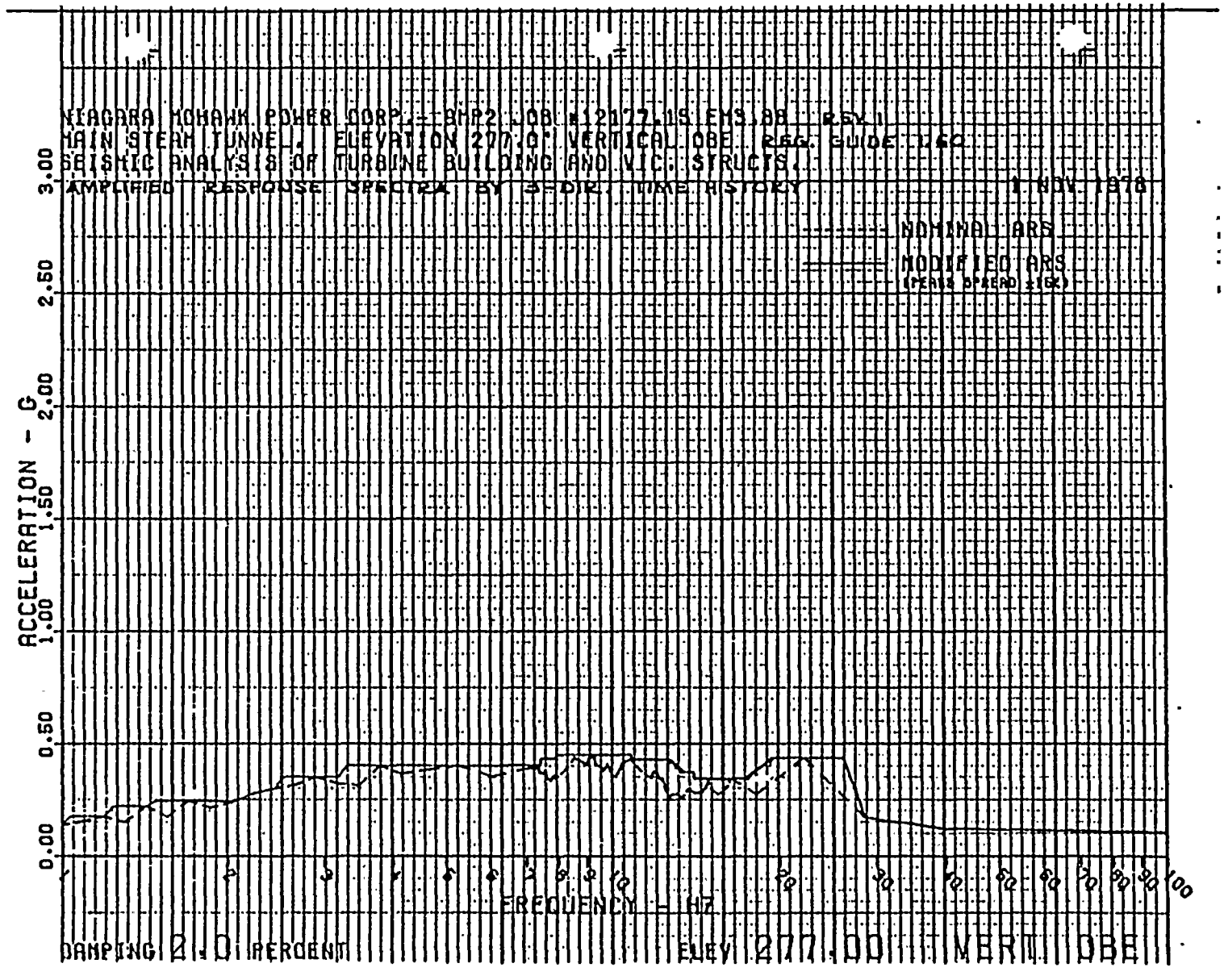

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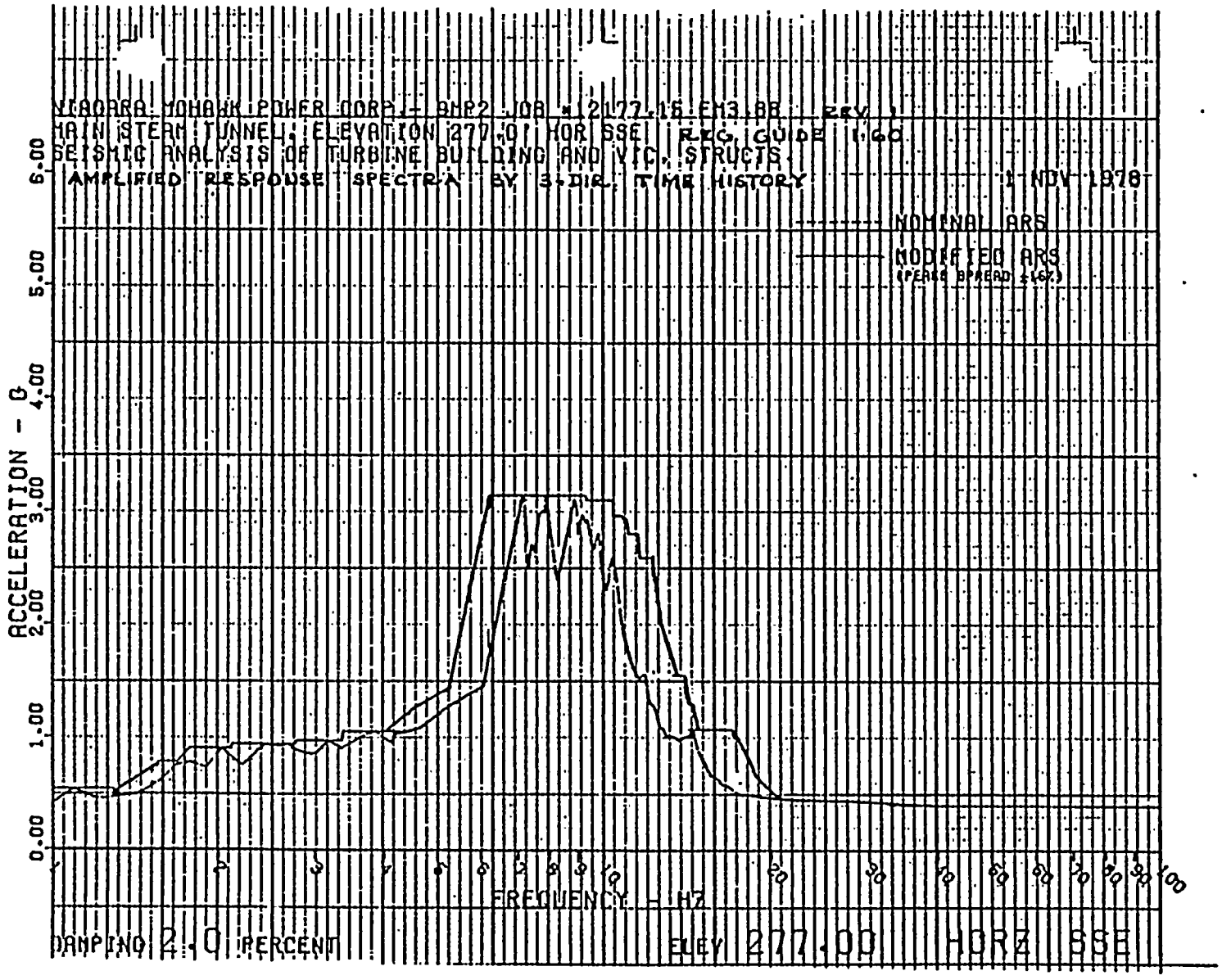

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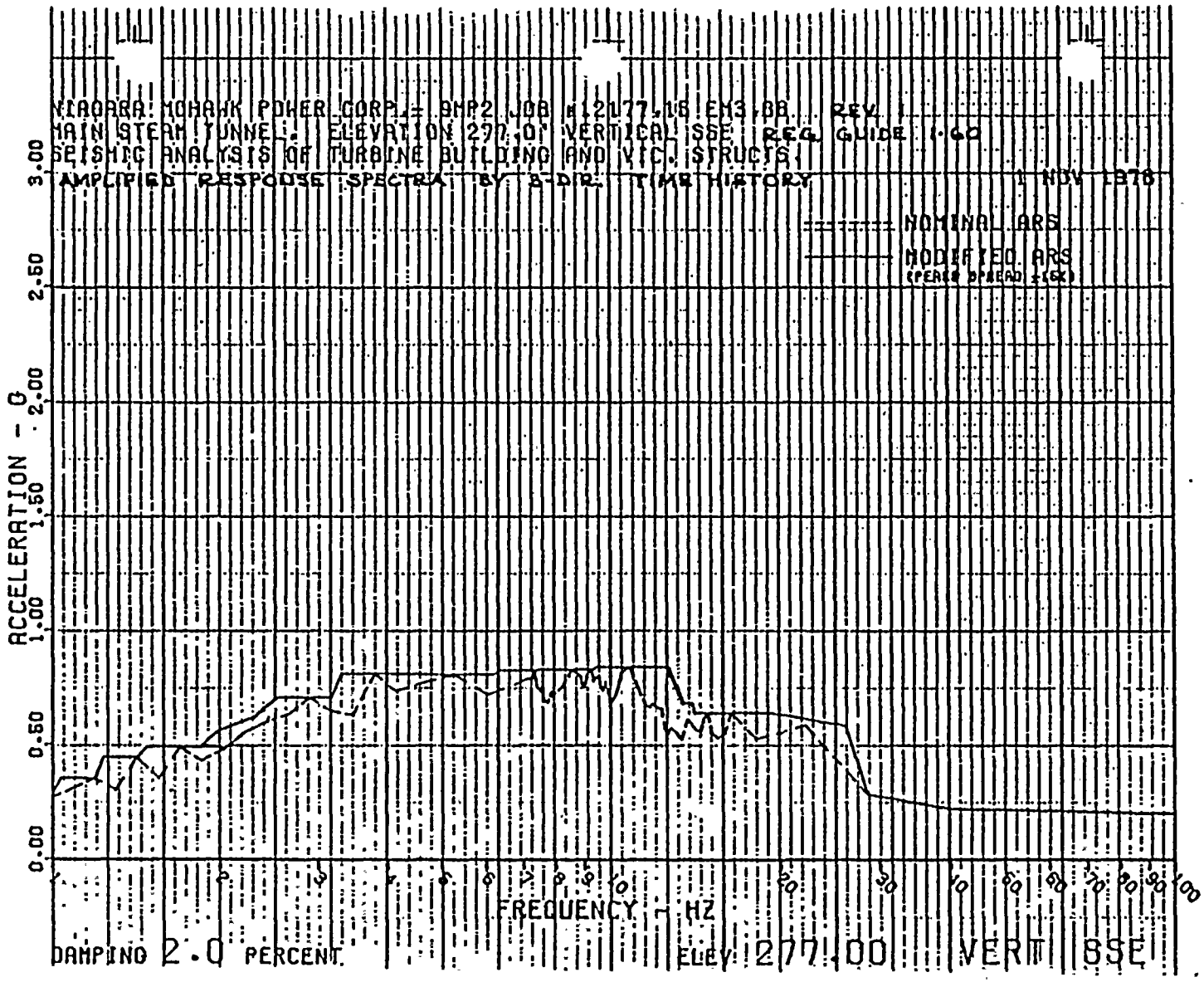

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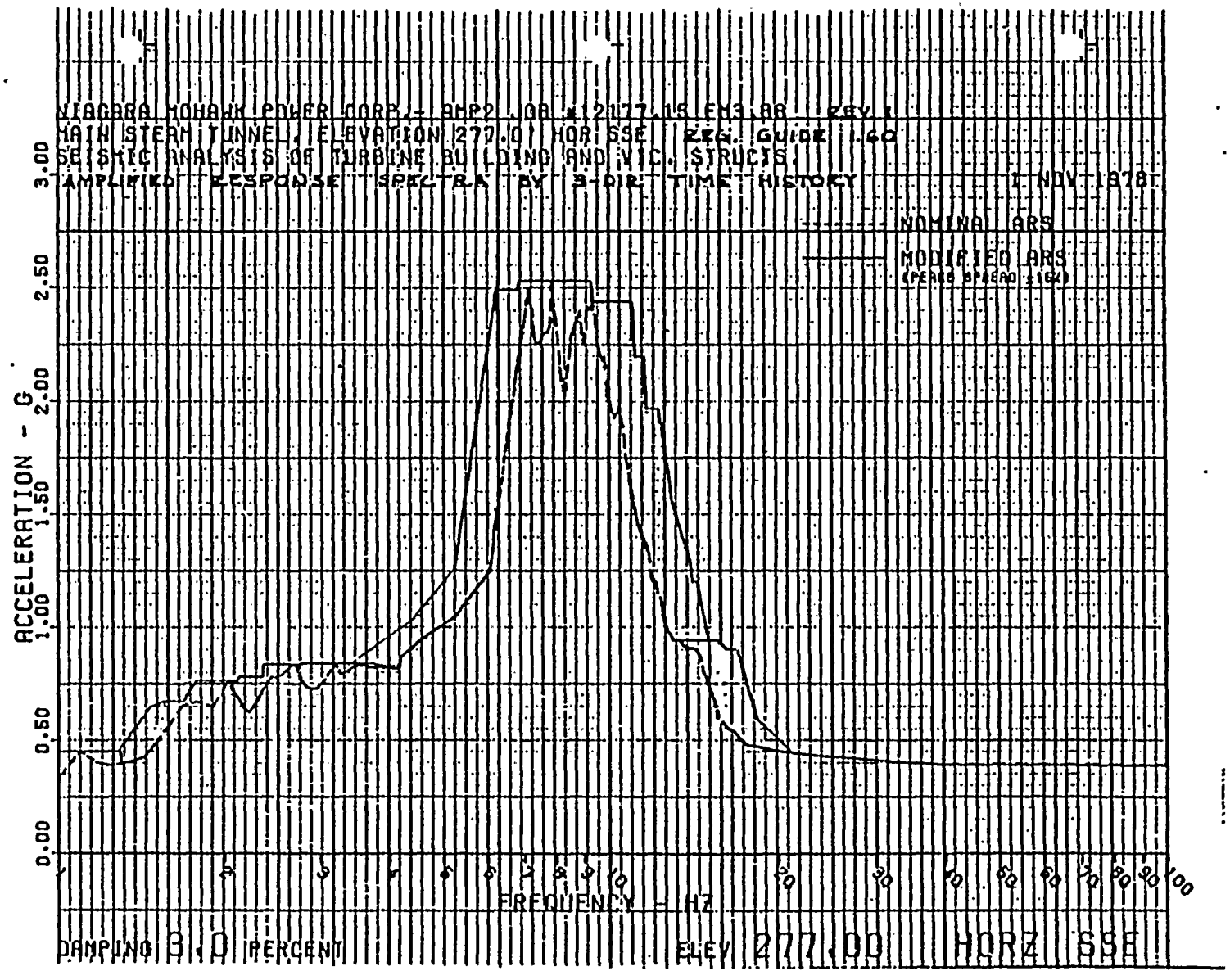

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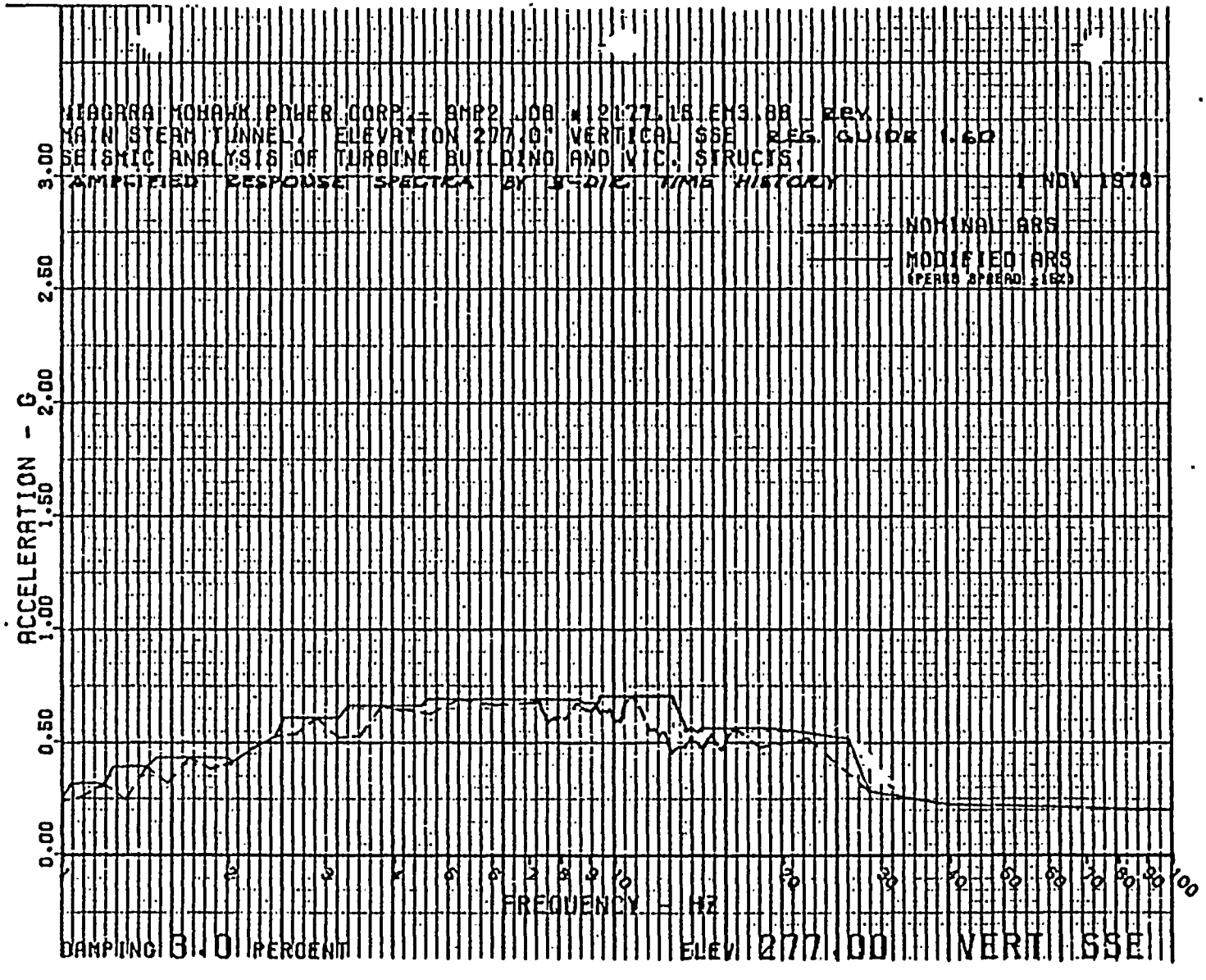

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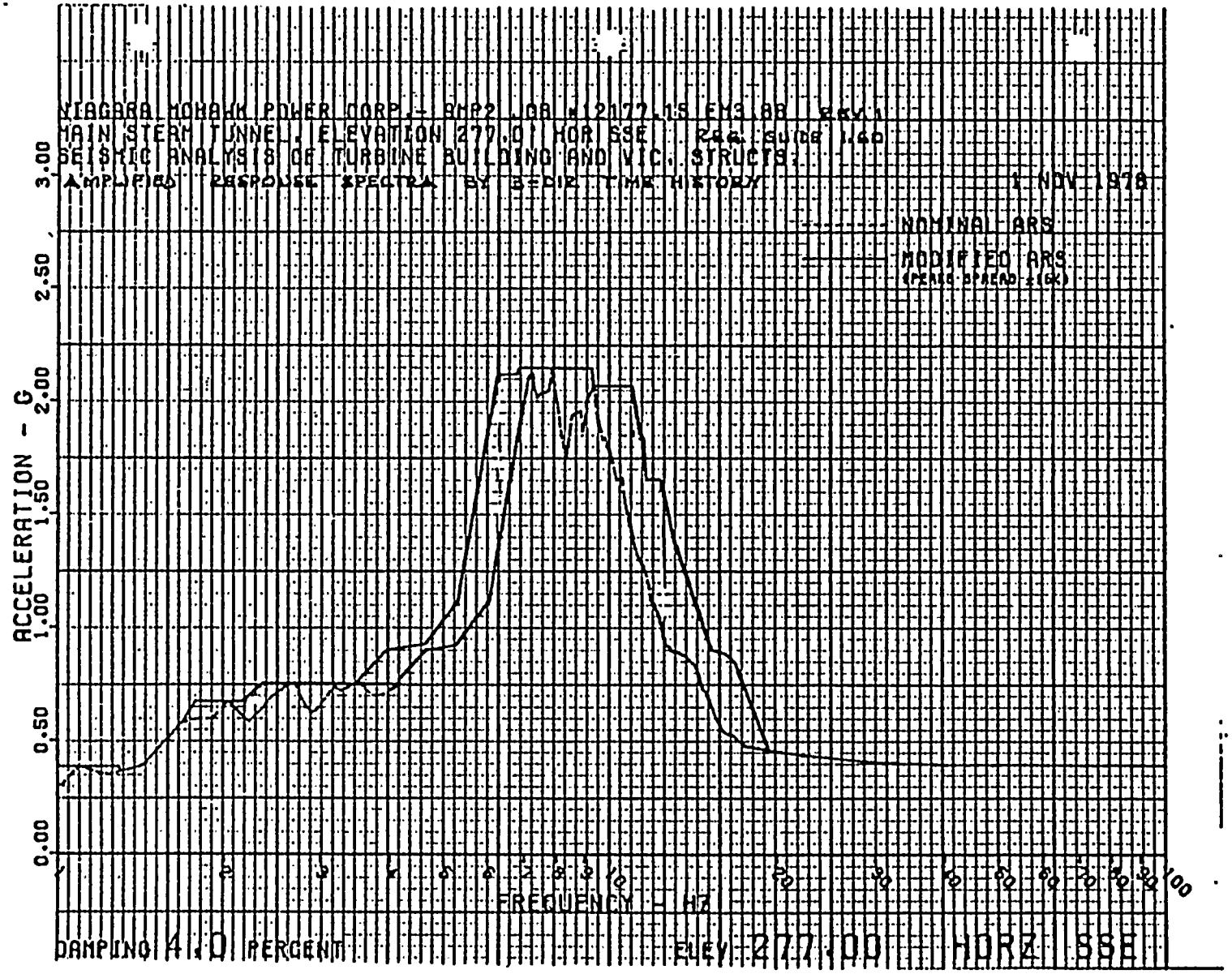

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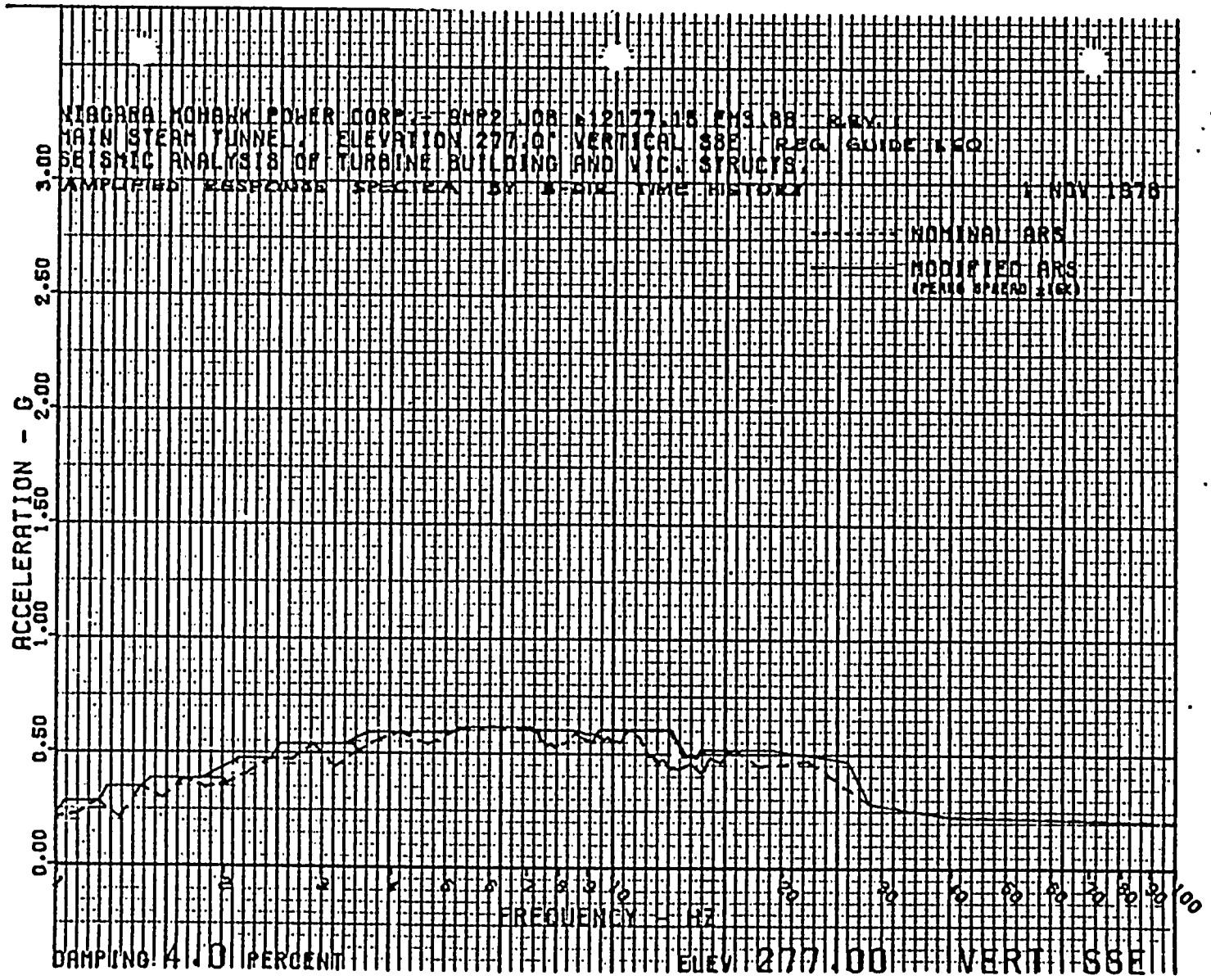

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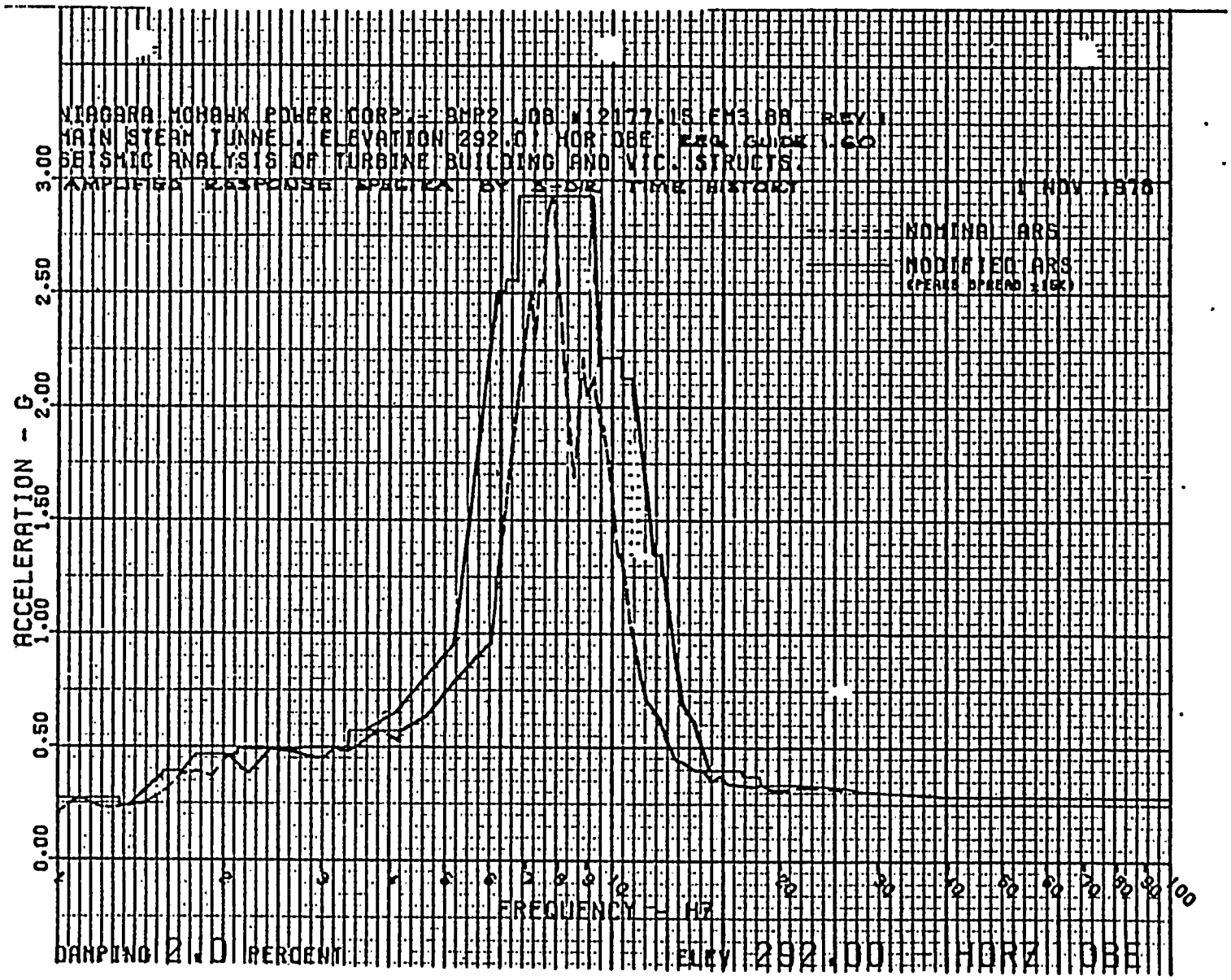

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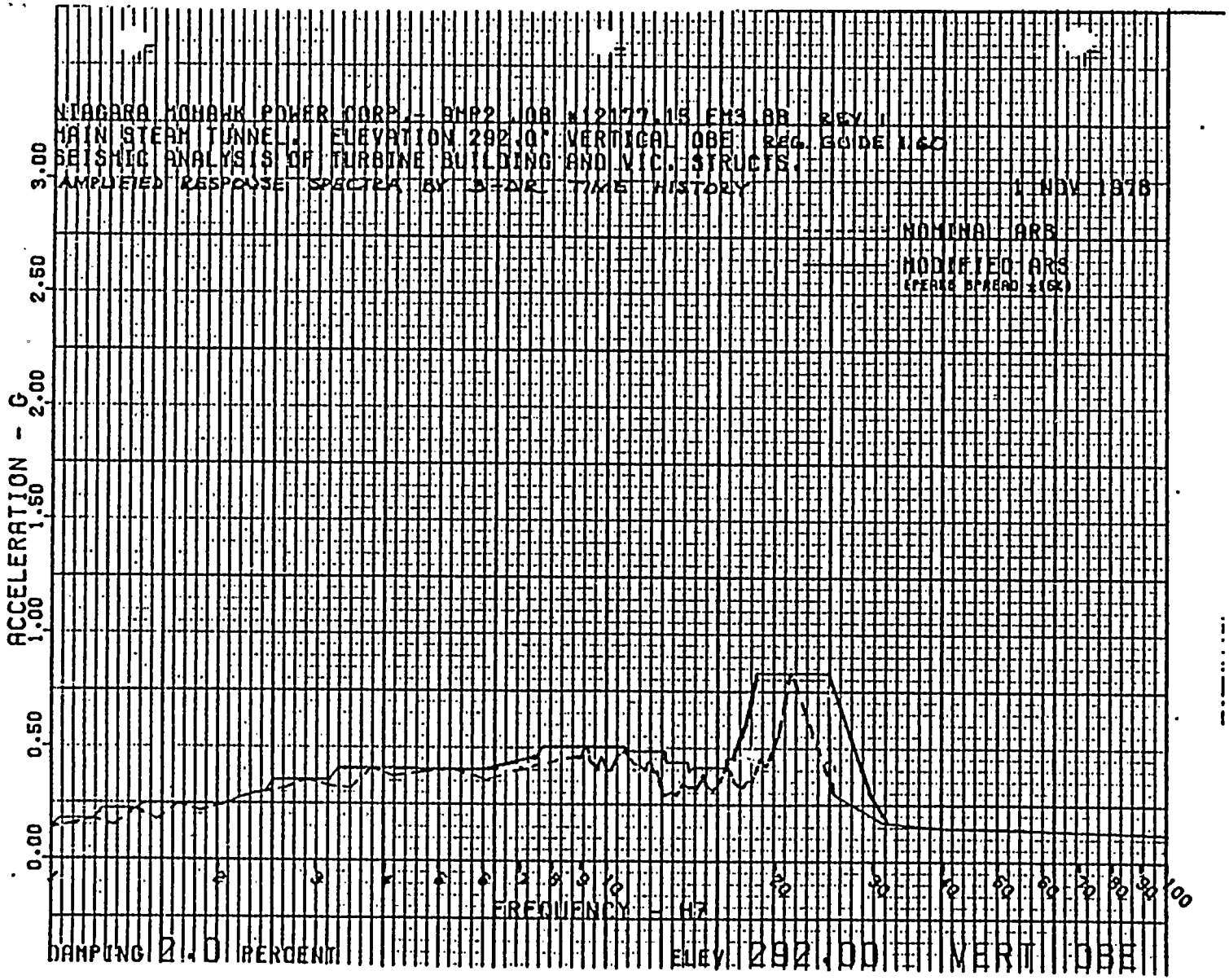

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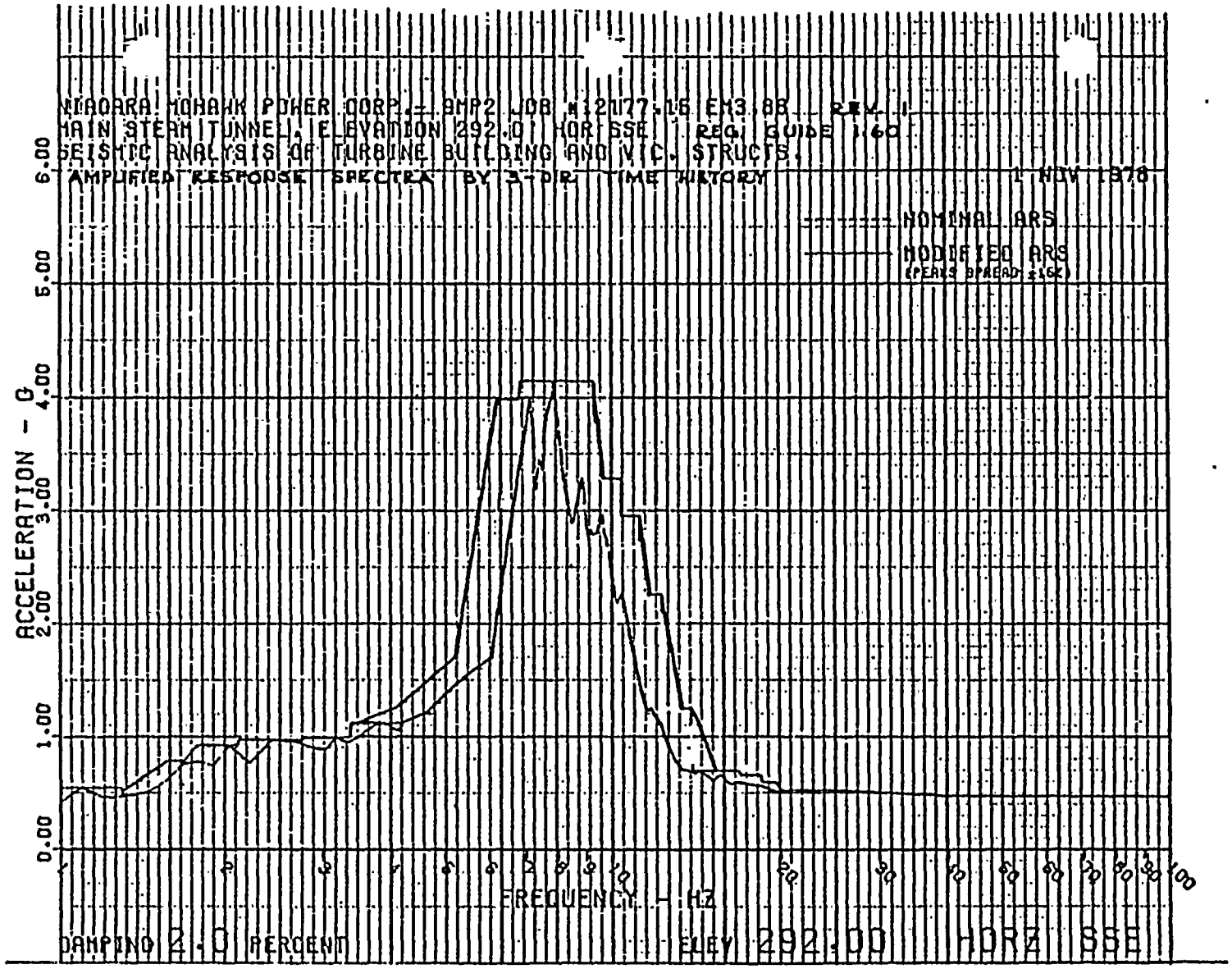

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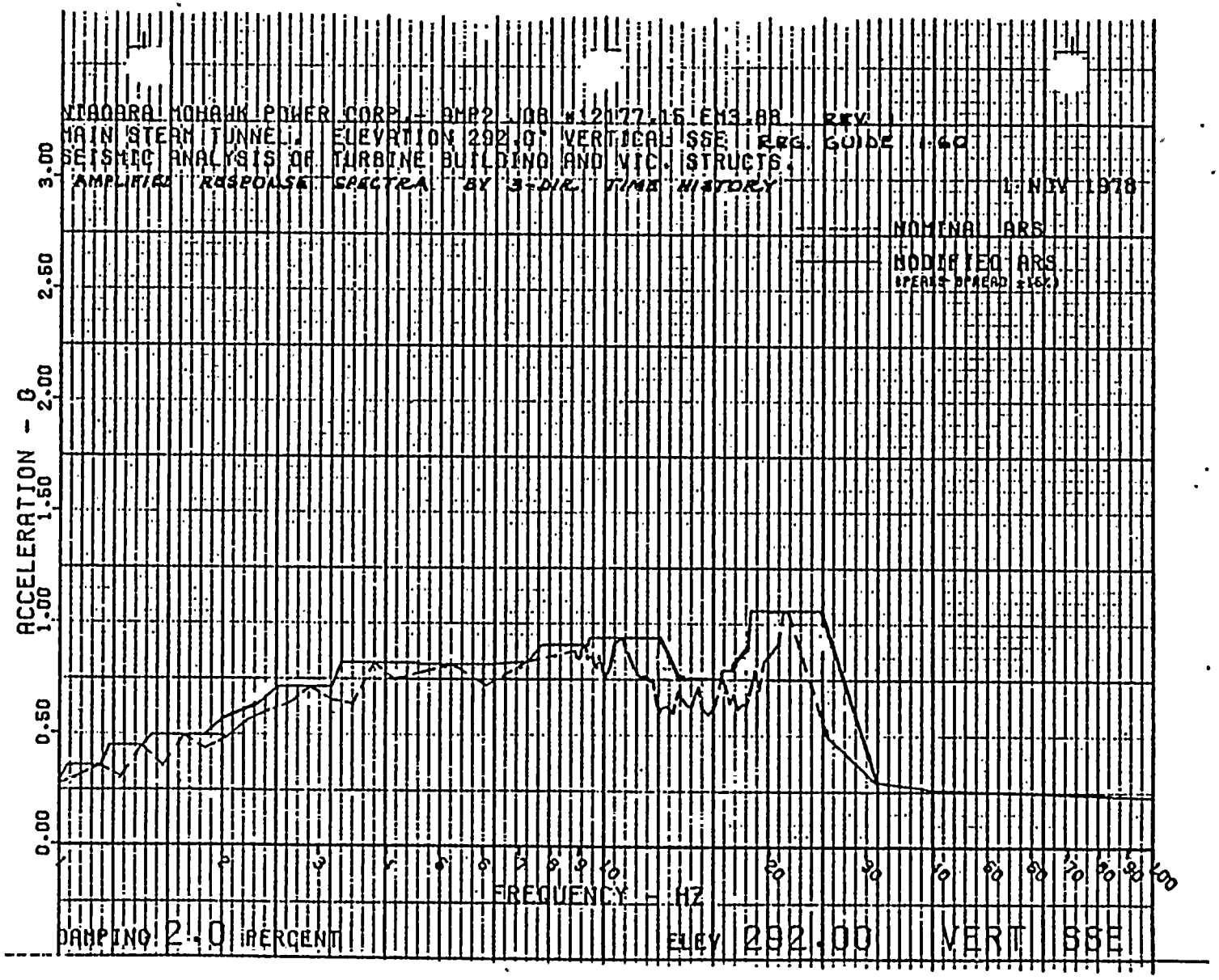

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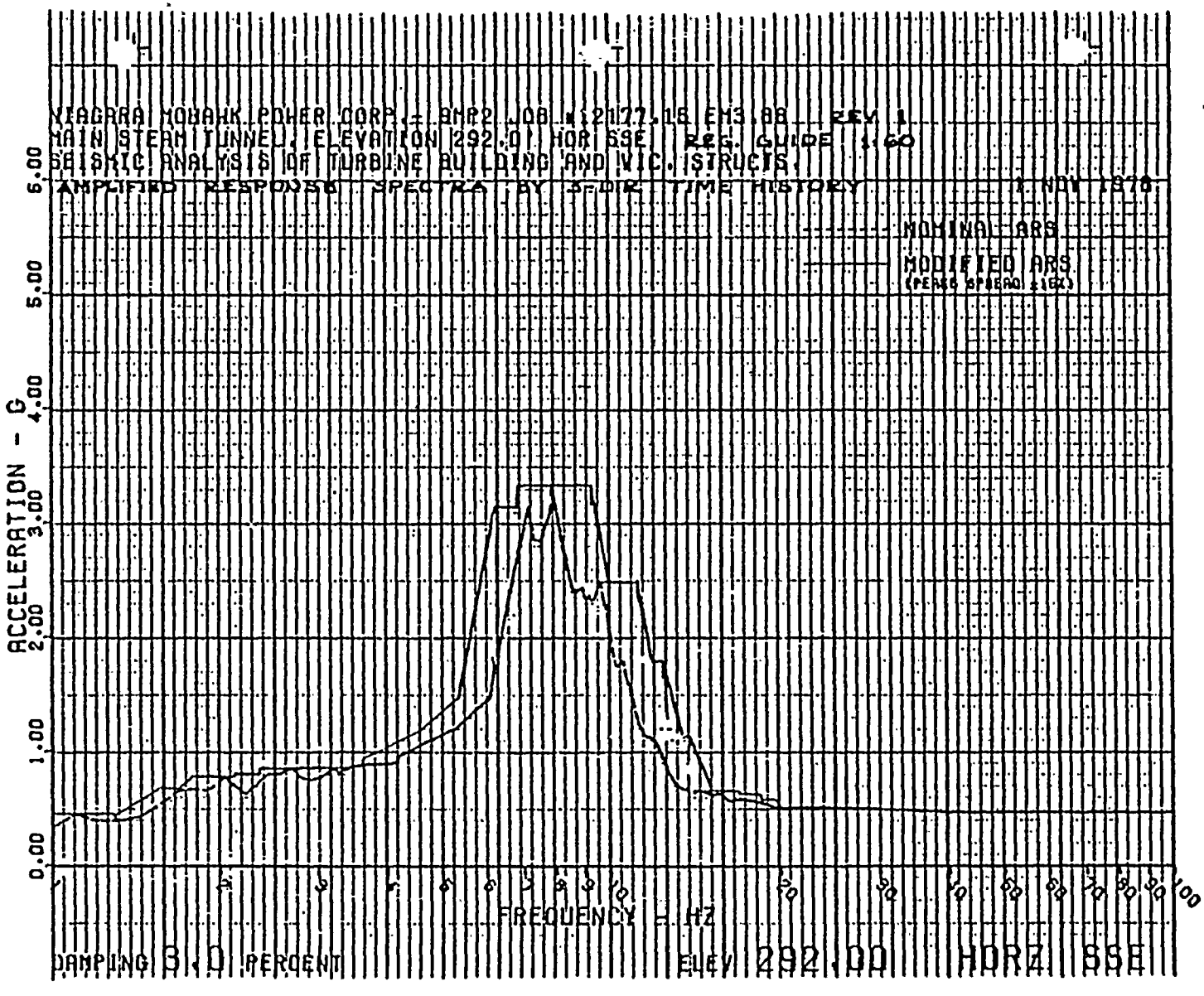
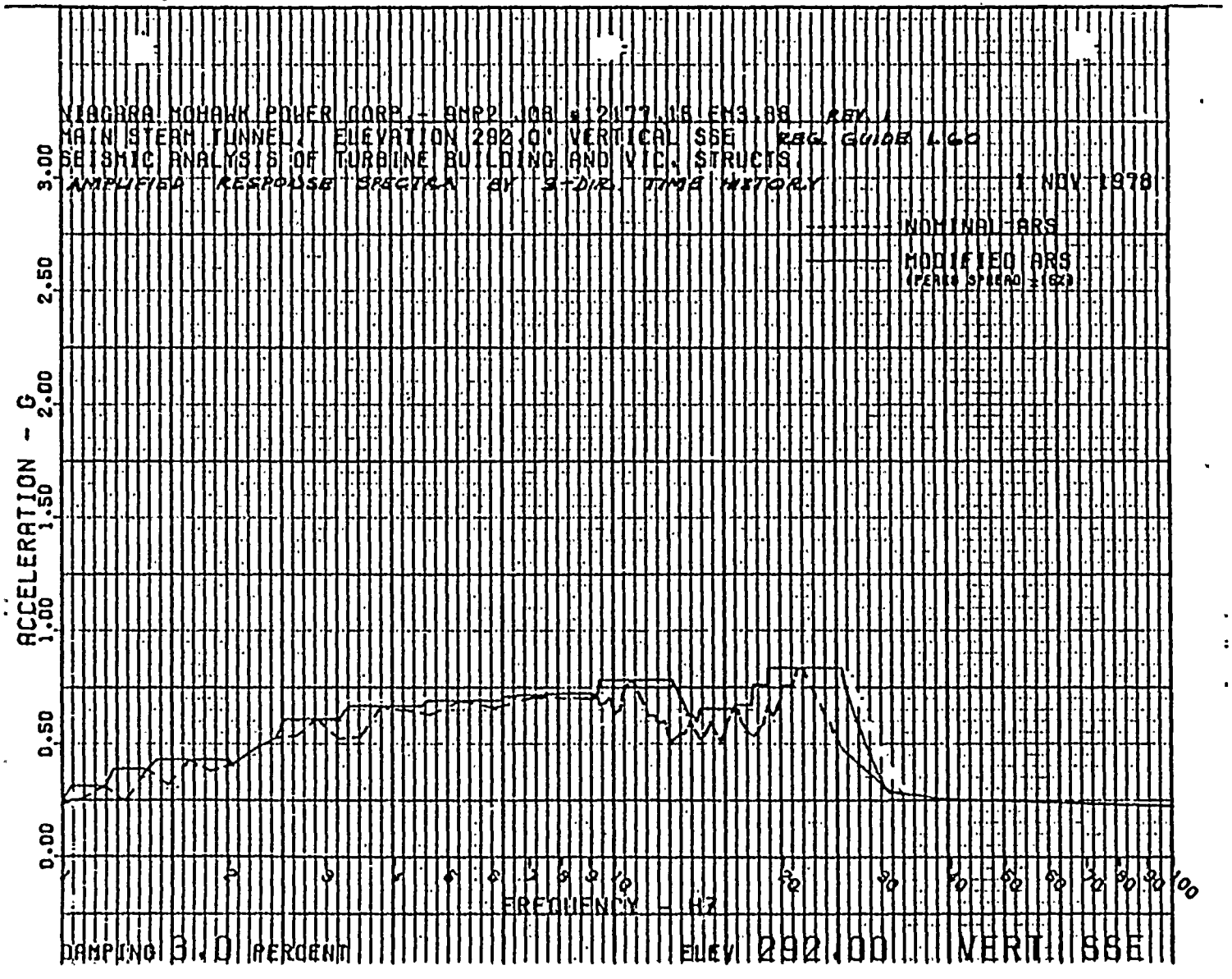
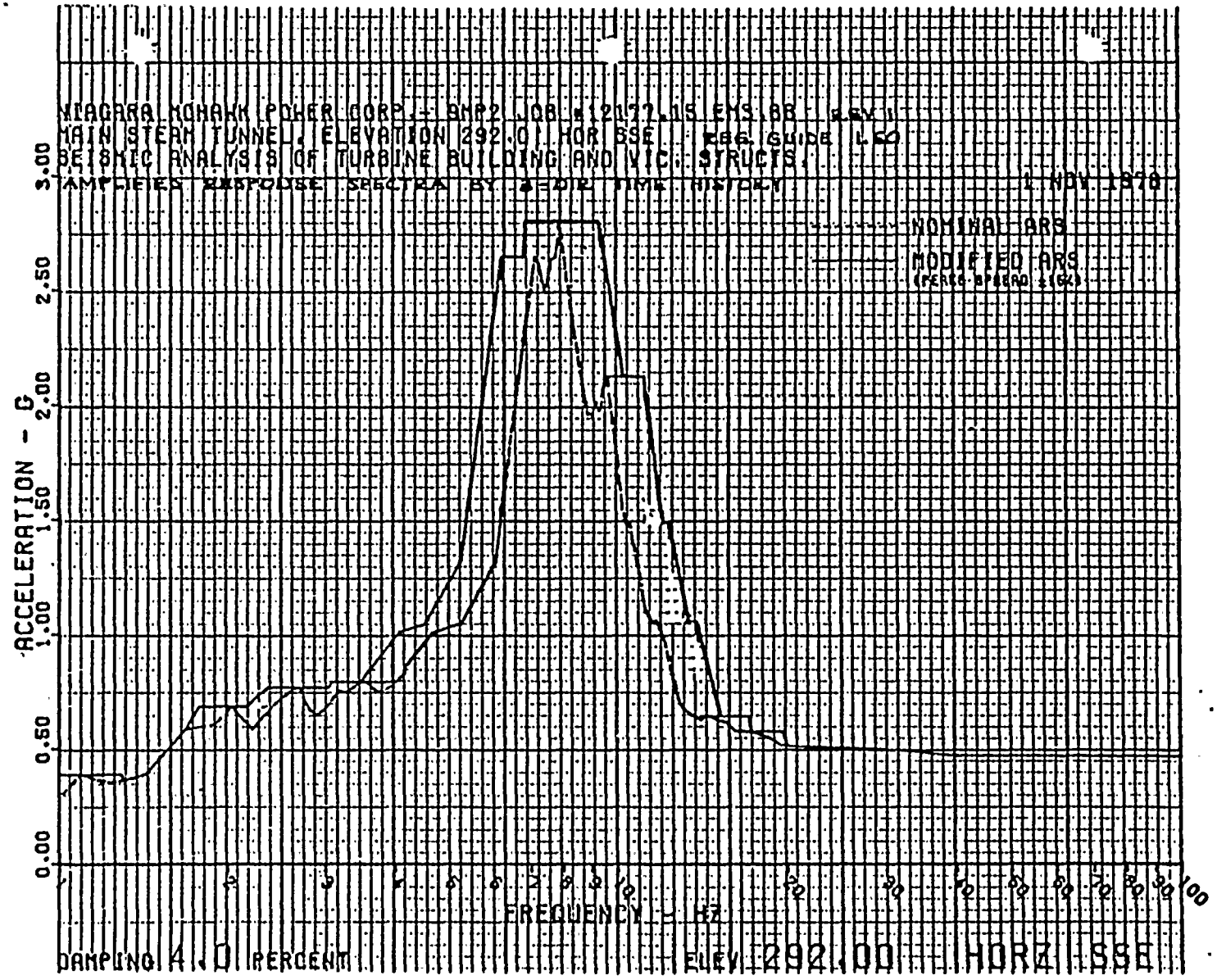


MS-1373 REV 0 REF 13
12177

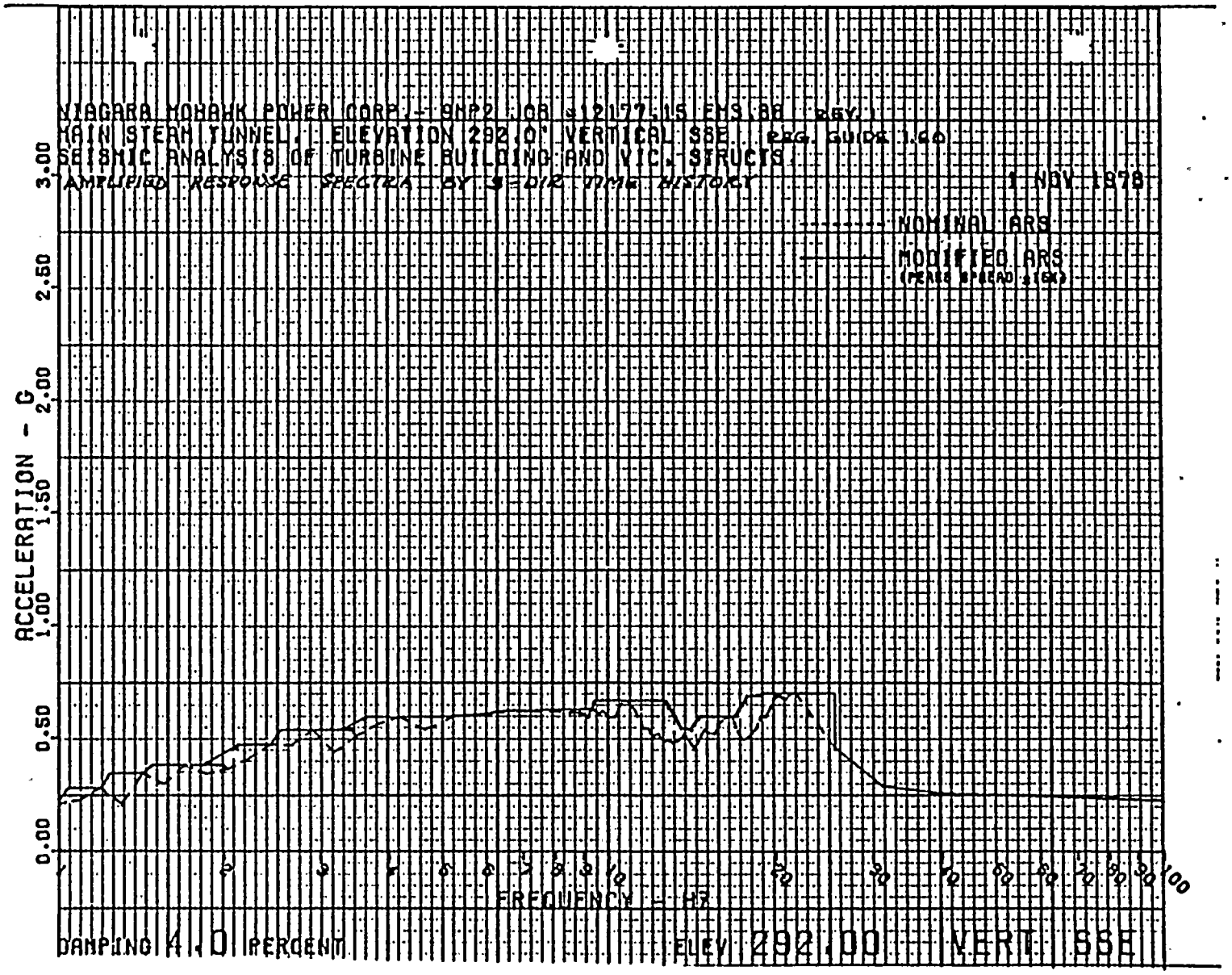


MS-1373 REV 0 REF 13

12/77



MS-1373 REV 0 REF 13
12177



MS-13873 REV 0 REF 13
12/77

PSPECTRA VER 01 LEV 09 OBE 6 JUL 1988

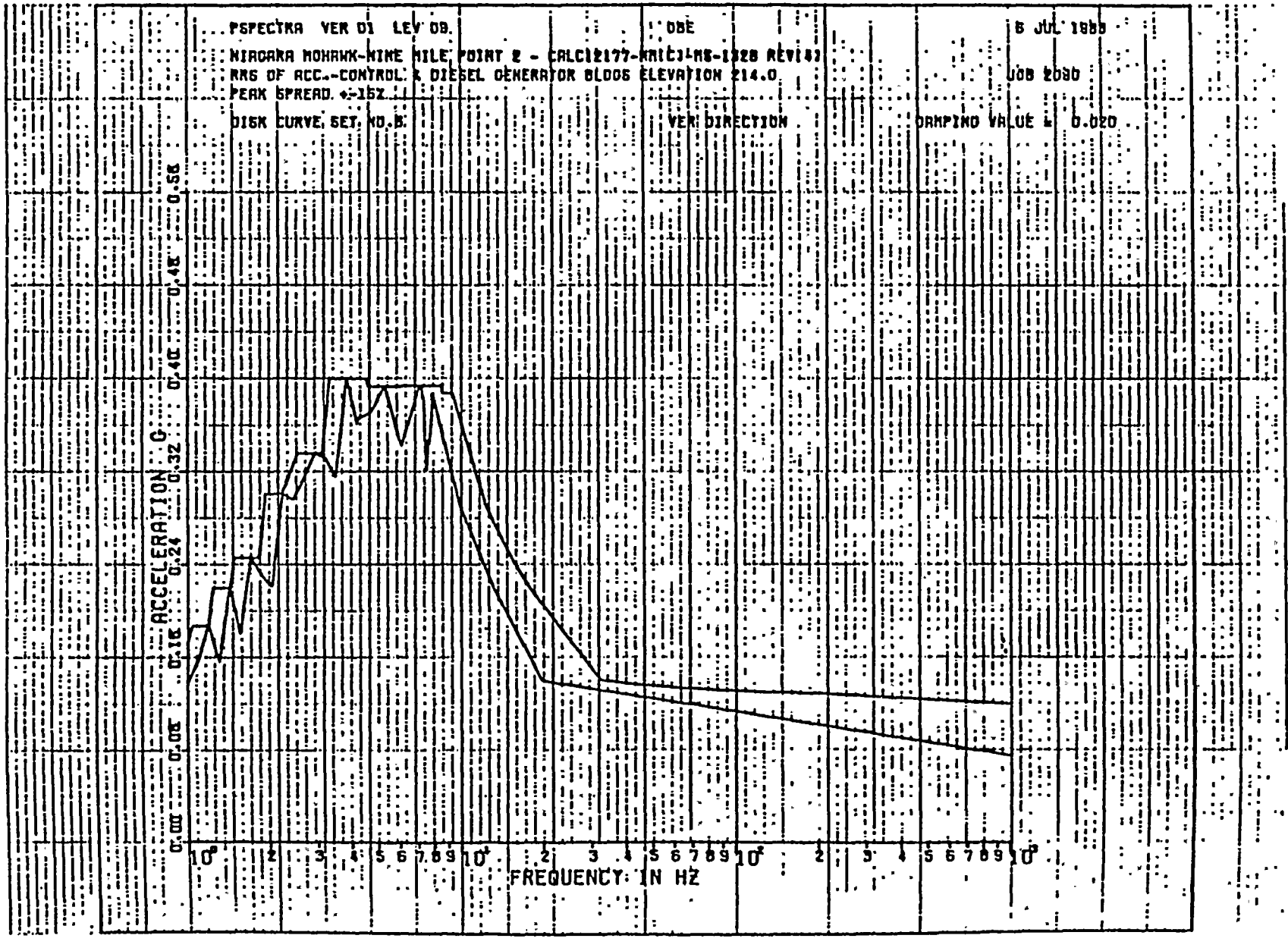
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-MM(C)-MS-1328 REV(4)

MRS OF ACCL-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 214.0 JOB 2080

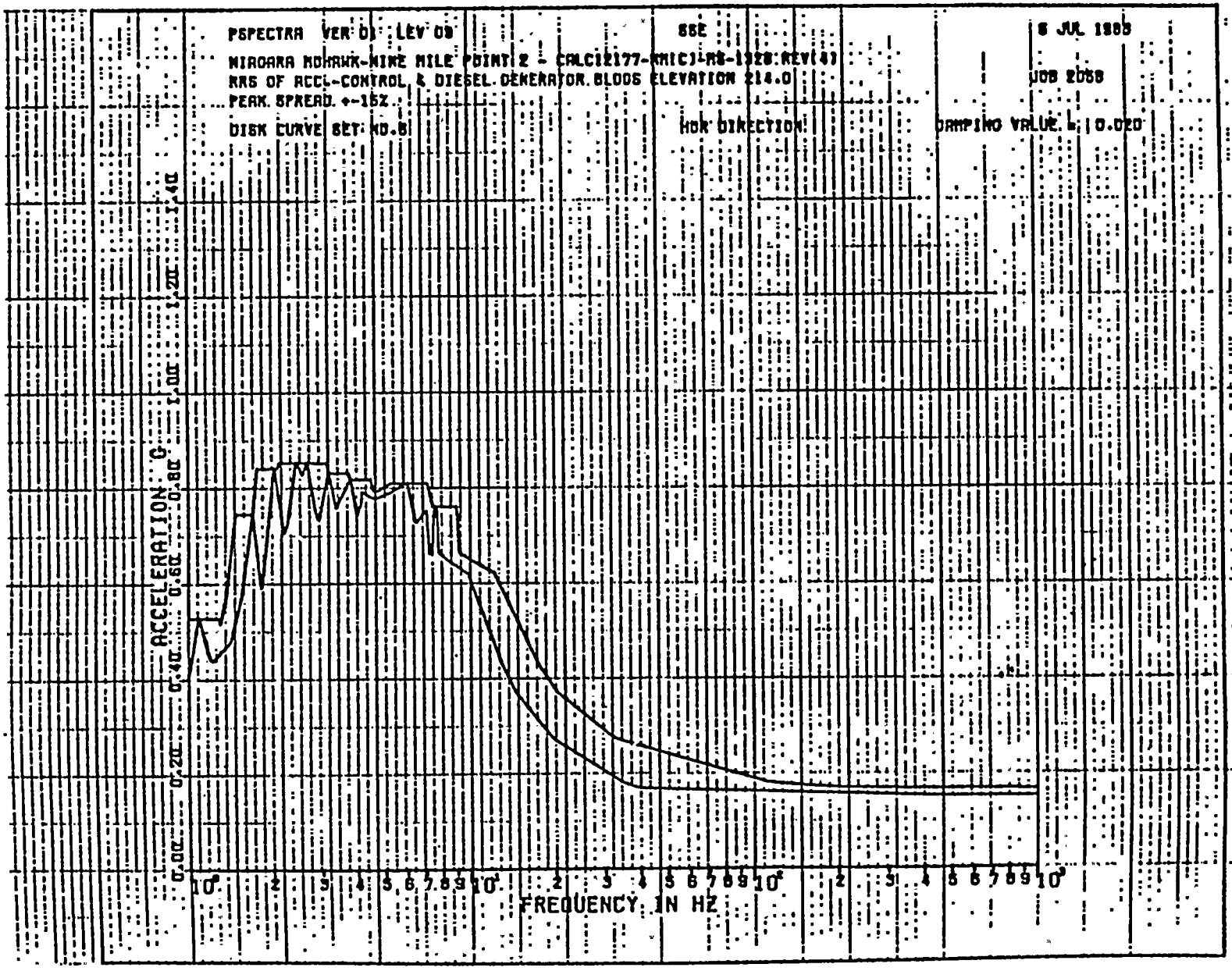
PEAK SPREAD +-15%

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

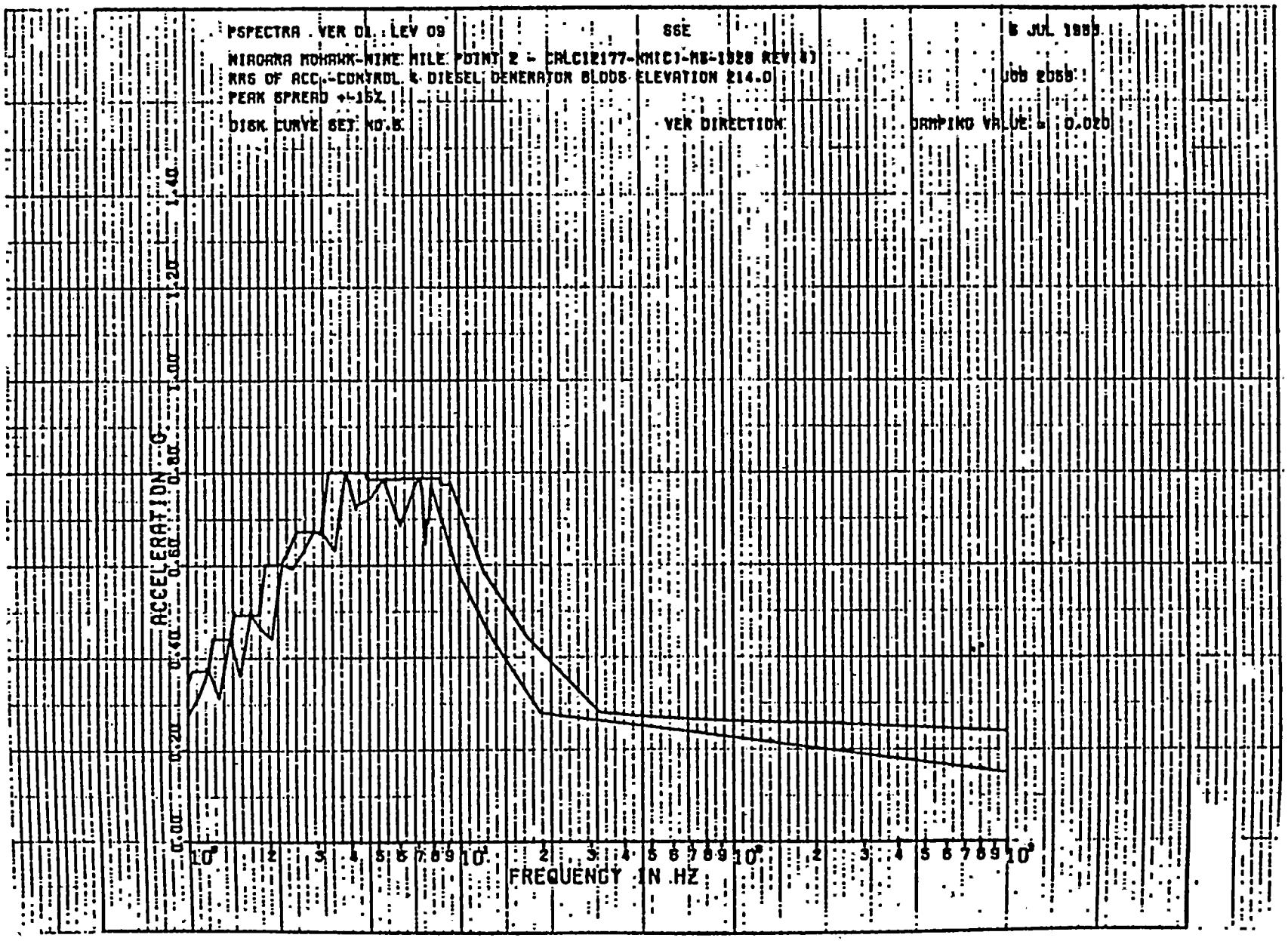
REF 14


PSPECTRA VER 01 LEV 08.
OBE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-MMIC1-MS-1328 REV1
RMS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 214.0
JOB 2030
PEAK SPREAD +-15%
DISK CURVE SET NO.5
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.08
0.16
0.24
0.32
0.40
0.48
0.56
FREQUENCY IN HZ

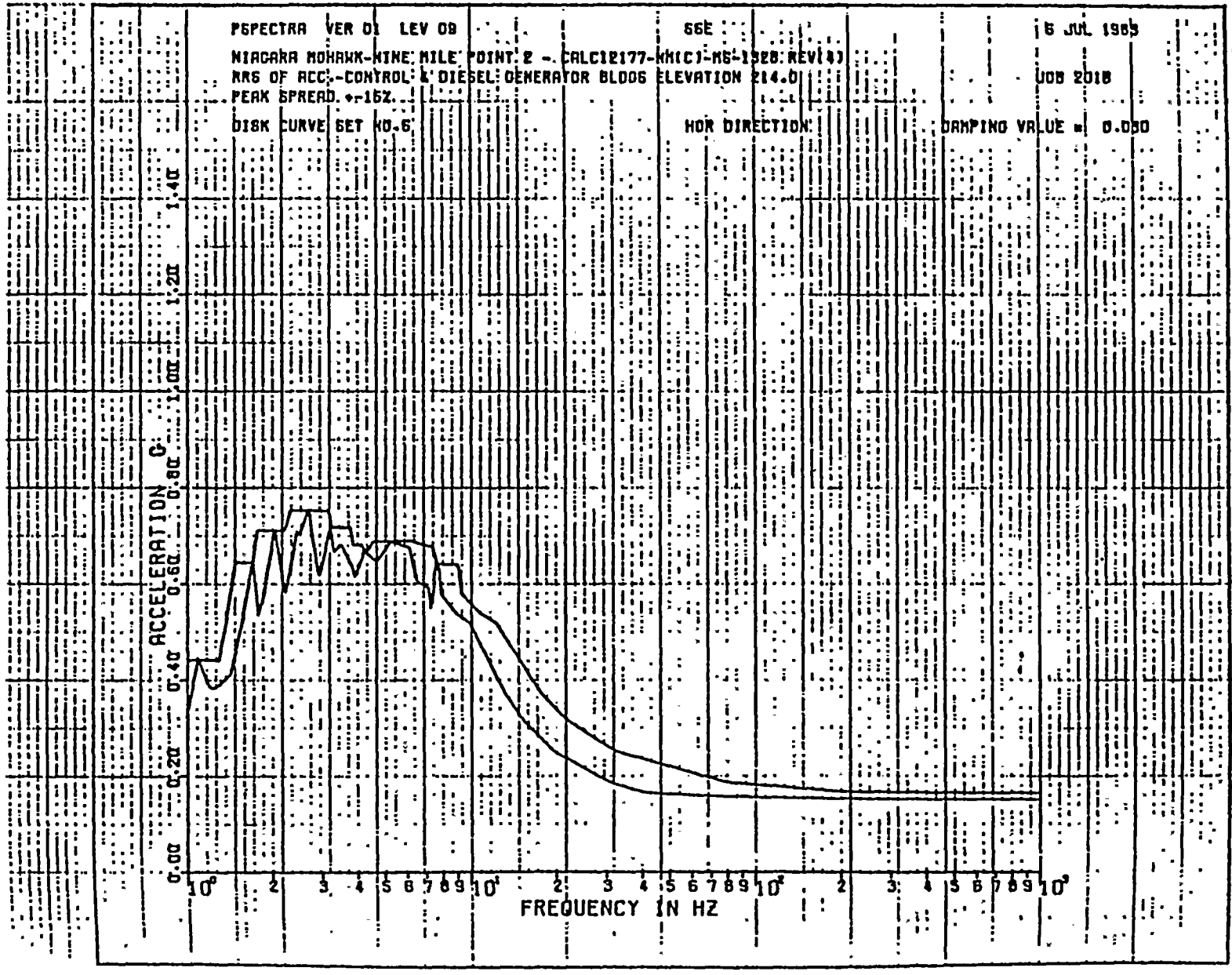
REF 14


PSPECTRA VER 01 LEV 09
SSE
8 JUL 1985
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-MMIC1-RS-1128 REV(4)
RRS OF ACCL-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 214.0
JOB 2058
PEAK SPREAD +-15%
DISK CURVE SET NO.8
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00G
0.20G
0.40G
0.60G
0.80G
1.00G
1.20G
1.40G
FREQUENCY IN HZ

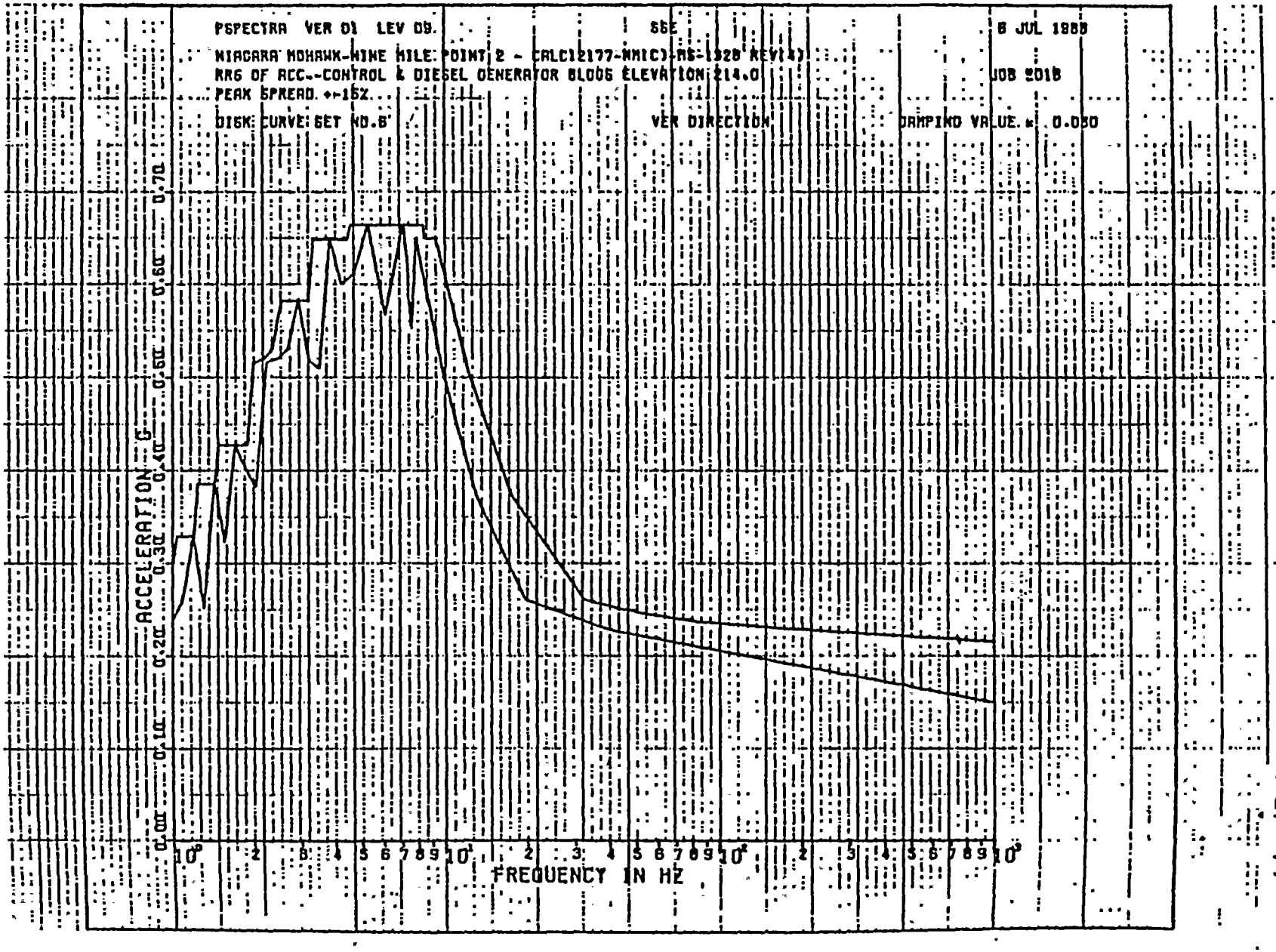
REF 14


PSPECTRA VER 01 LEV 09
SSE
6 JUL 1988
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-NMIC1-MS-1528 REV 01
RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 214.0
JOB 2058
PEAK SPREAD +-15%
DISK CURVE SET NO.8
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
FREQUENCY IN HZ

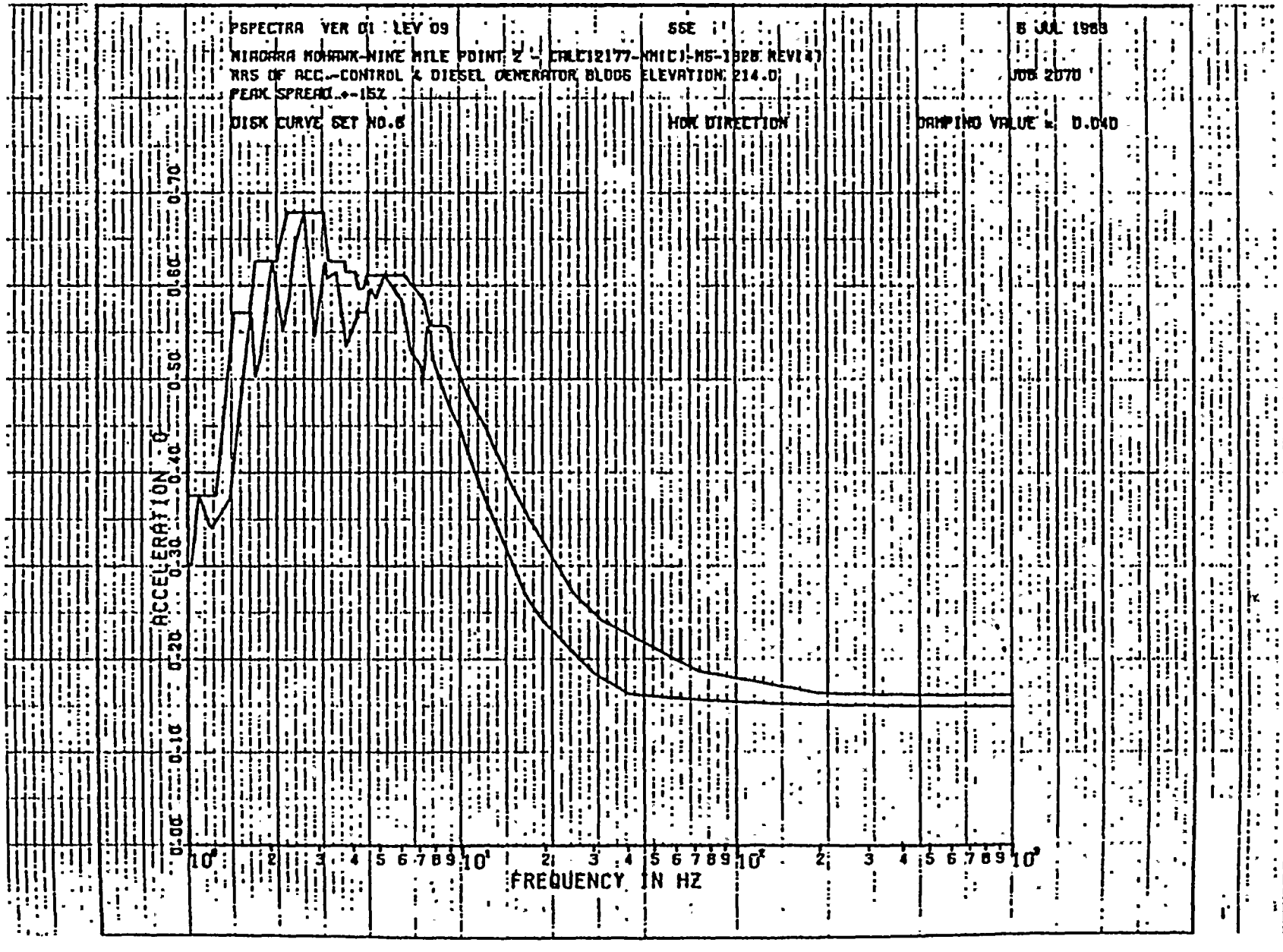
REF 14


PSPECTRA VER 01 LEV 08
SSE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-MHIC1-MS-1328 REV(4)
RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 214.0
UOB 2018
PEAK SPREAD +-15%
DISK CURVE SET NO.6
HOR DIRECTION
DAMPING VALUE = 0.050
ACCELERATION G
0.00G
0.20G
0.40G
0.60G
0.80G
1.00G
1.20G
1.40G
FREQUENCY IN HZ

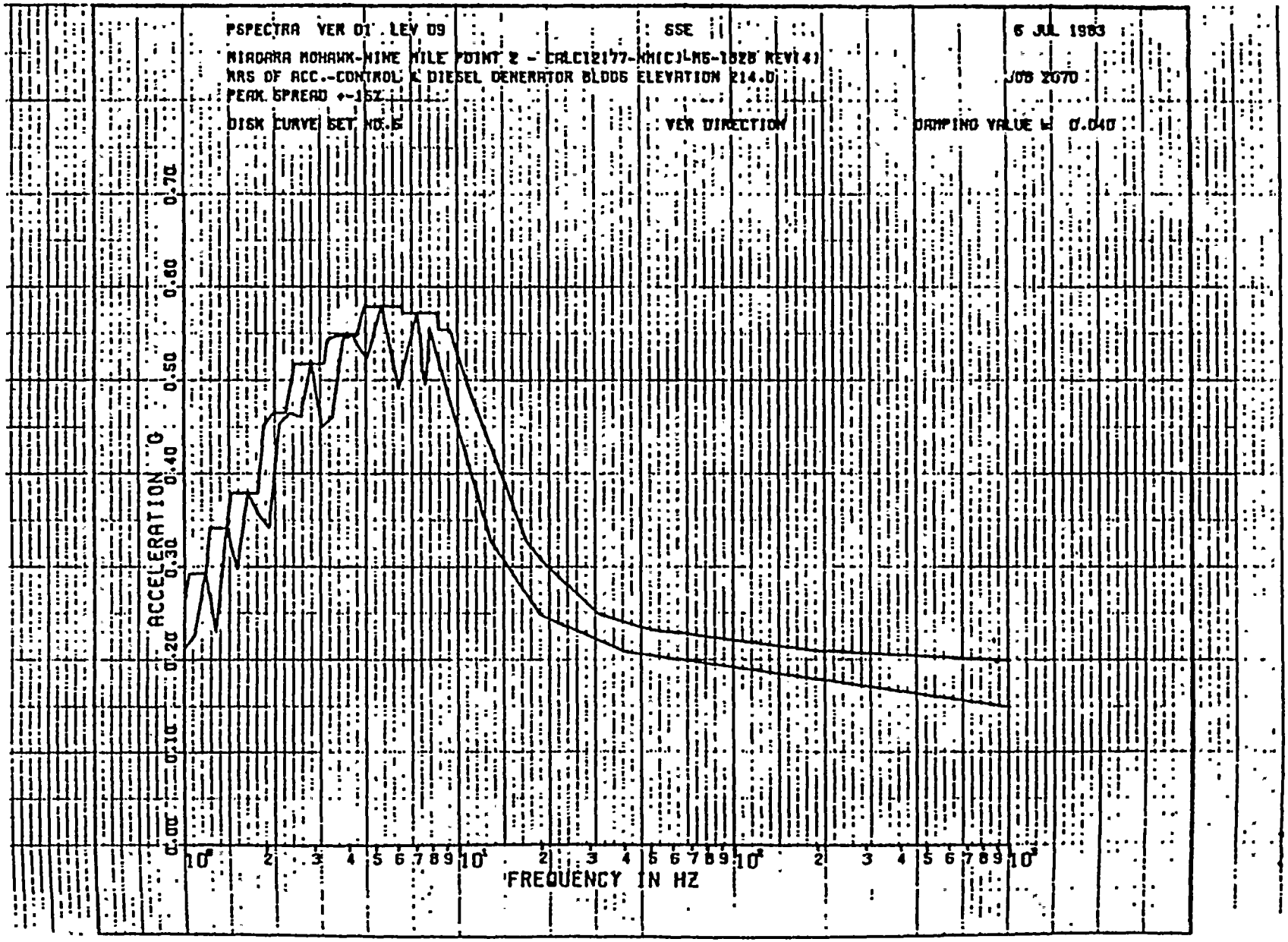
REF 14


PSPECTRA VER 01 LEV 09.
SSE
6 JUL 1988
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-NMIC)-RS-1328 REV(4)
RRS OF RCC--CONTROL & DIESEL GENERATOR BLDGS ELEVATION 214.0
JOB 2018
PEAK SPREAD +-15%
DISK CURVE SET NO.8
VER DIRECTION
DAMPING VALUE = 0.050
ACCELERATION G
0.00
0.10
0.20
0.30
0.40
0.50
0.60
0.70
FREQUENCY IN HZ

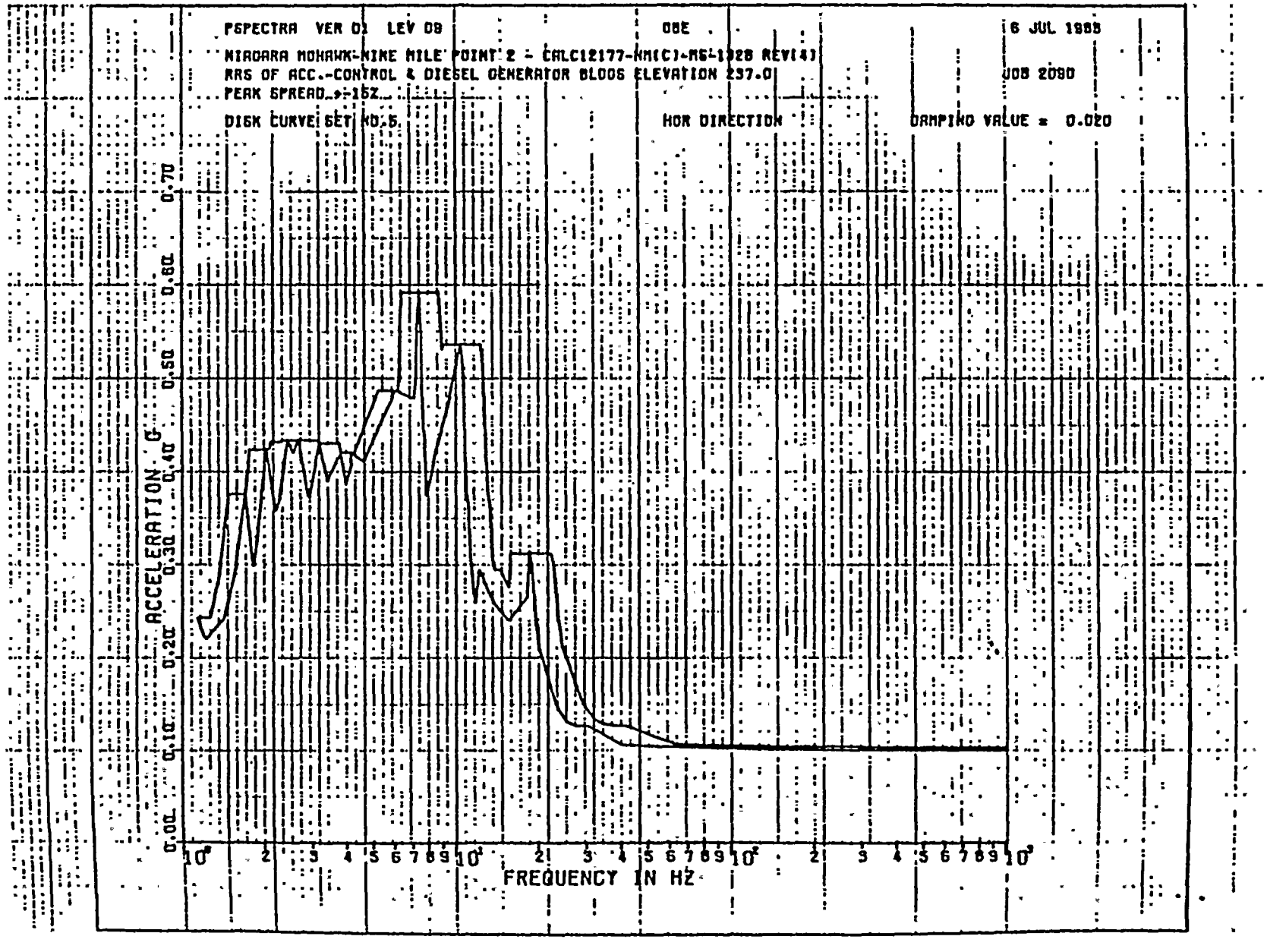
REF 14


PSPECTRA VER 01 : LEV 09
SSE
8 JUL 1988
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-XMIC1-MS-1328 REV1A7
RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 214.0
JOB 2070
PEAK SPREAD = -15%
DISK CURVE SET NO.6
HOR DIRECTION
DAMPING VALUE = 0.040
ACCELERATION - G
0.00
0.10
0.20
0.30
0.40
0.50
0.60
0.70
FREQUENCY IN HZ

REF 14

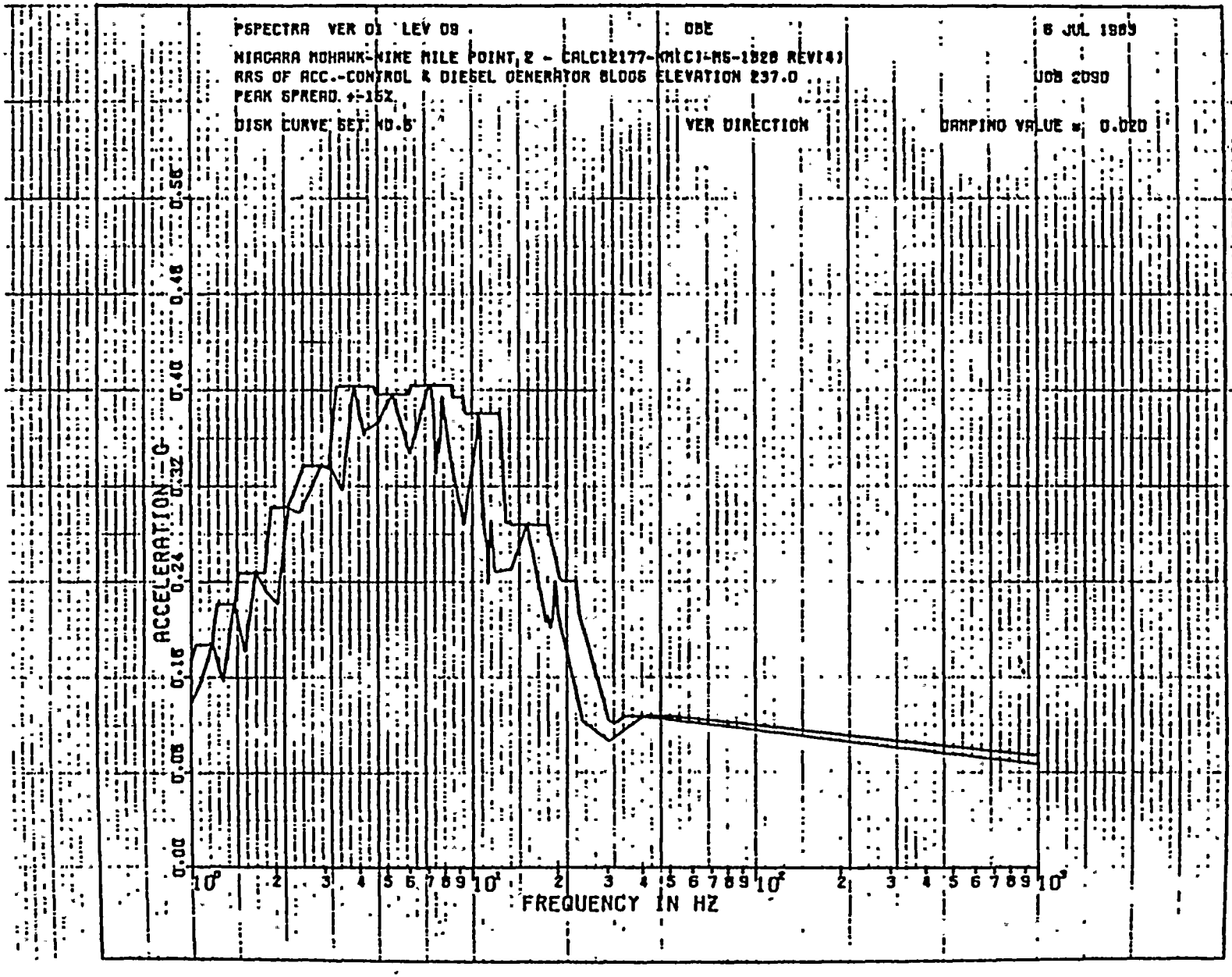

PSPECTRA VER 01 LEV 09
SSE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-MM(C)LM5-1828 REV(4)
NRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 214.0
JOB 2070
PEAK SPREAD +-15%
DISK CURVE SET NO.6
VER DIRECTION
DAMPING VALUE W 0.040
ACCELERATION G
0.00
0.10
0.20
0.30
0.40
0.50
0.60
0.70
FREQUENCY IN HZ

REF 14

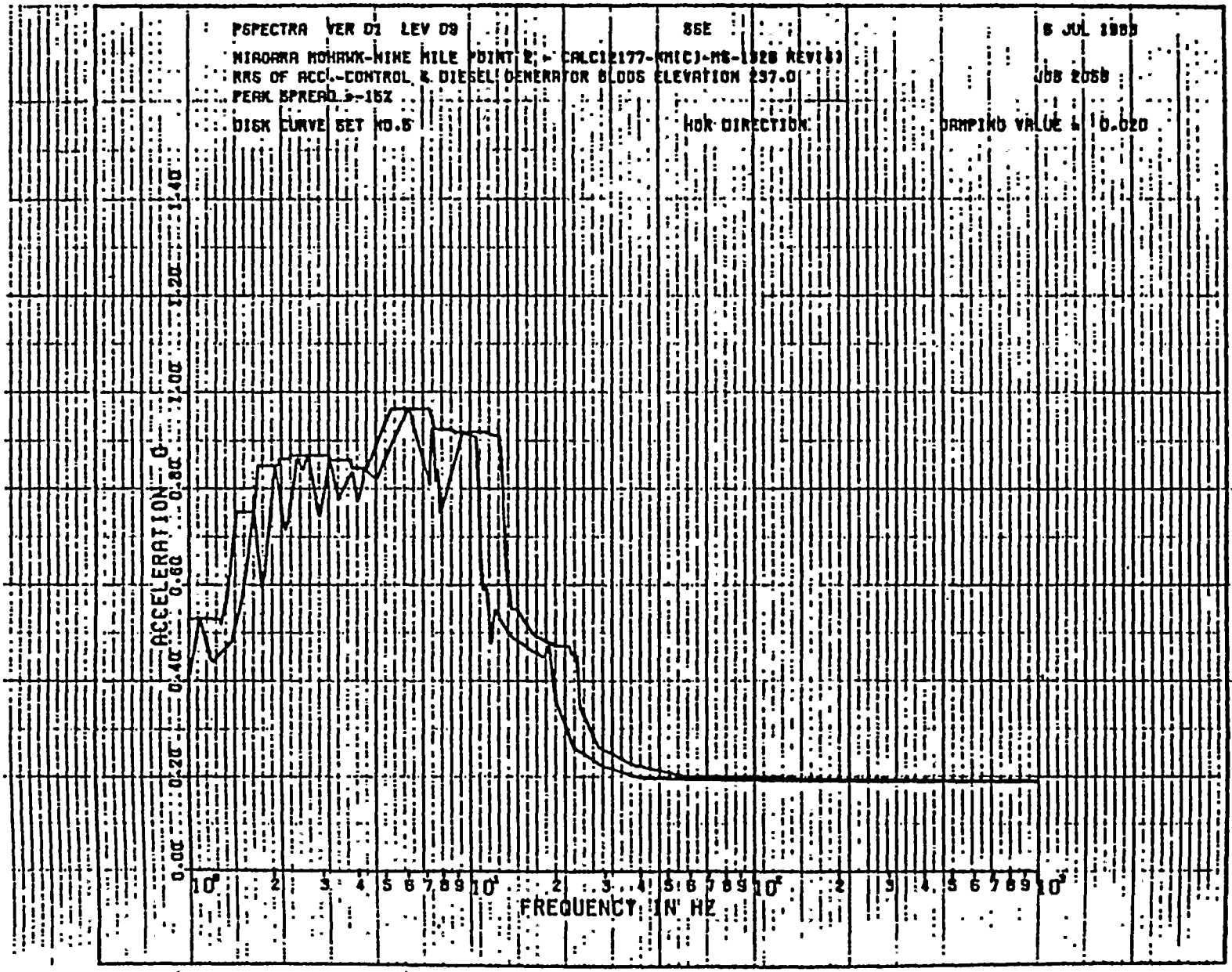

PSPECTRA VER 01 LEV 09
OBE
6 JUL 1988
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-NM(C)-MS-1328 REV(4)
RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 237.0
JOB 2090
PEAK SPREAD +-15%
DISK CURVE SET NO.5
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00G
0.10G
0.20G
0.30G
0.40G
0.50G
0.60G
0.70G
FREQUENCY IN HZ

REF 15

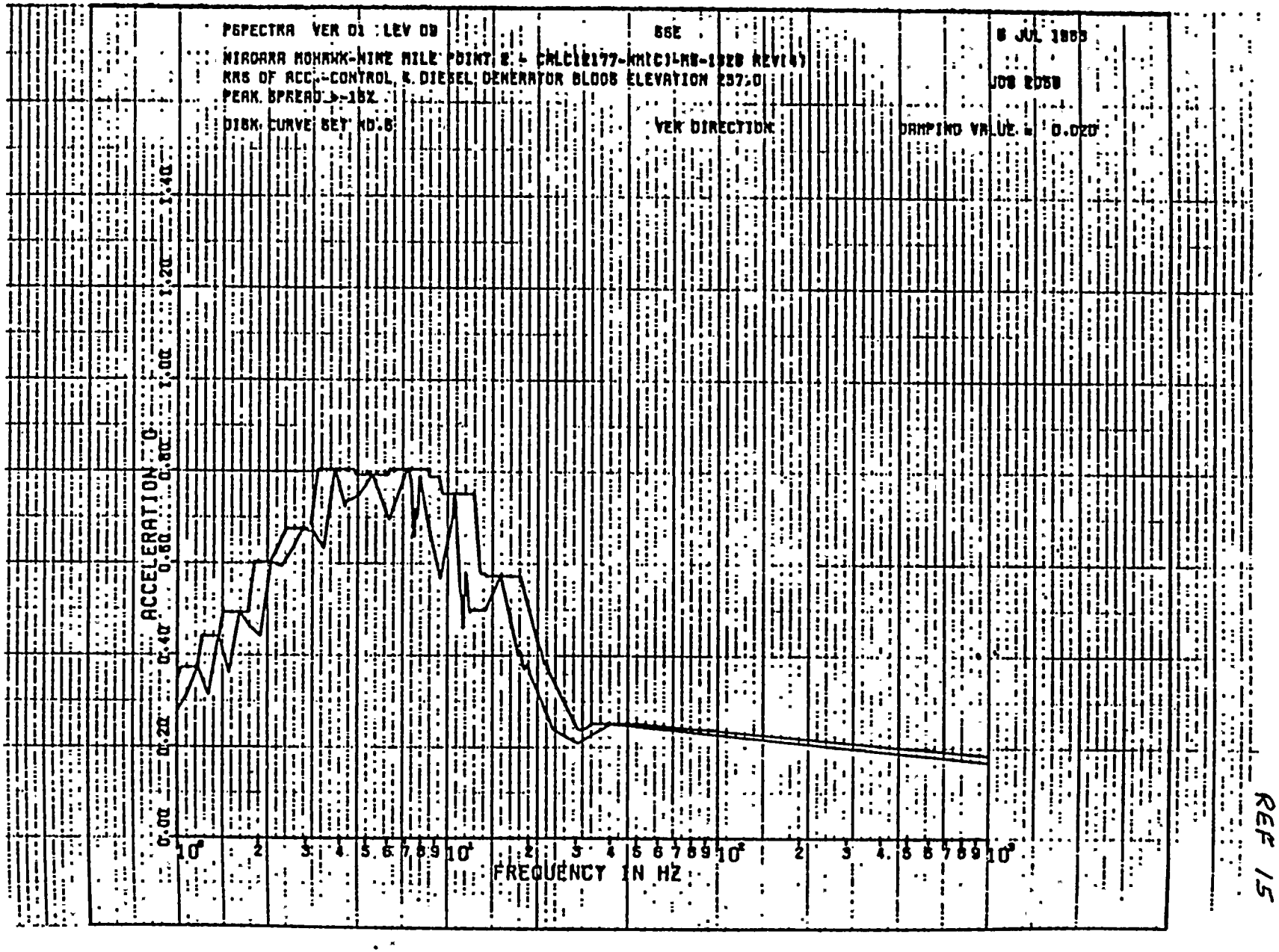
7


PSPECTRA VER 01 LEV 09
OBE
6 JUL 1989
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-(MIC)-MS-1828 REV(4)
RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 237.0
UOB 2090
PEAK SPREAD +-15%
DISK CURVE SET NO.5
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.08
0.16
0.24
0.32
0.40
0.48
0.56
FREQUENCY IN HZ

REF 15


PSPECTRA VER 01 LEV 09
SSE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2, - CALC12177-MI(C)-MS-1328 REV(6)
RMS OF ACCL.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 237.0
JOB 2058
PEAK SPREAD >-15%
DISK CURVE SET NO.5
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.0G
0.2G
0.4G
0.6G
0.8G
1.0G
1.2G
1.4G
FREQUENCY IN HZ

REF 15


PSPECTRA VER 01 :LEV 00
SSE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-KM(C)-MS-1328 REV(4)
RMS OF ACC.-CONTROL, S. DIESEL GENERATOR BLDGS ELEVATION 237.0
JOB 8058
PEAK SPREAD 5-15%
DISK CURVE SET NO.6
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION - G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
FREQUENCY IN HZ

REF 15

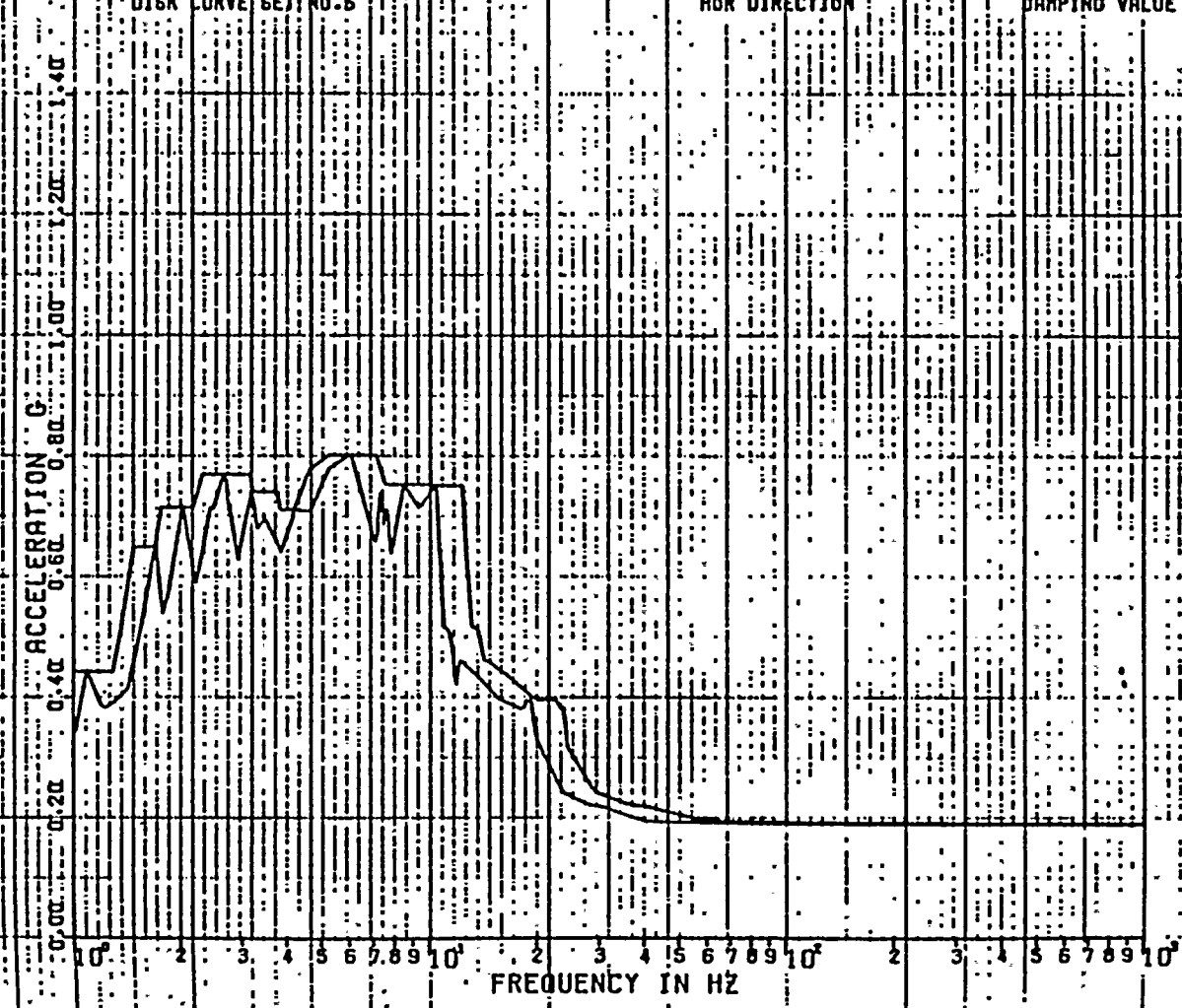
PSPECTRA VER 01 LEV 09 SSE 6 JUL 1988

NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-NMIC1-MS-1328 REV(4)

RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 237.0 JOB 2018

PEAK SPREAD = 15%

DISK CURVE SET NO.5 HOR DIRECTION DAMPING VALUE = 0.030



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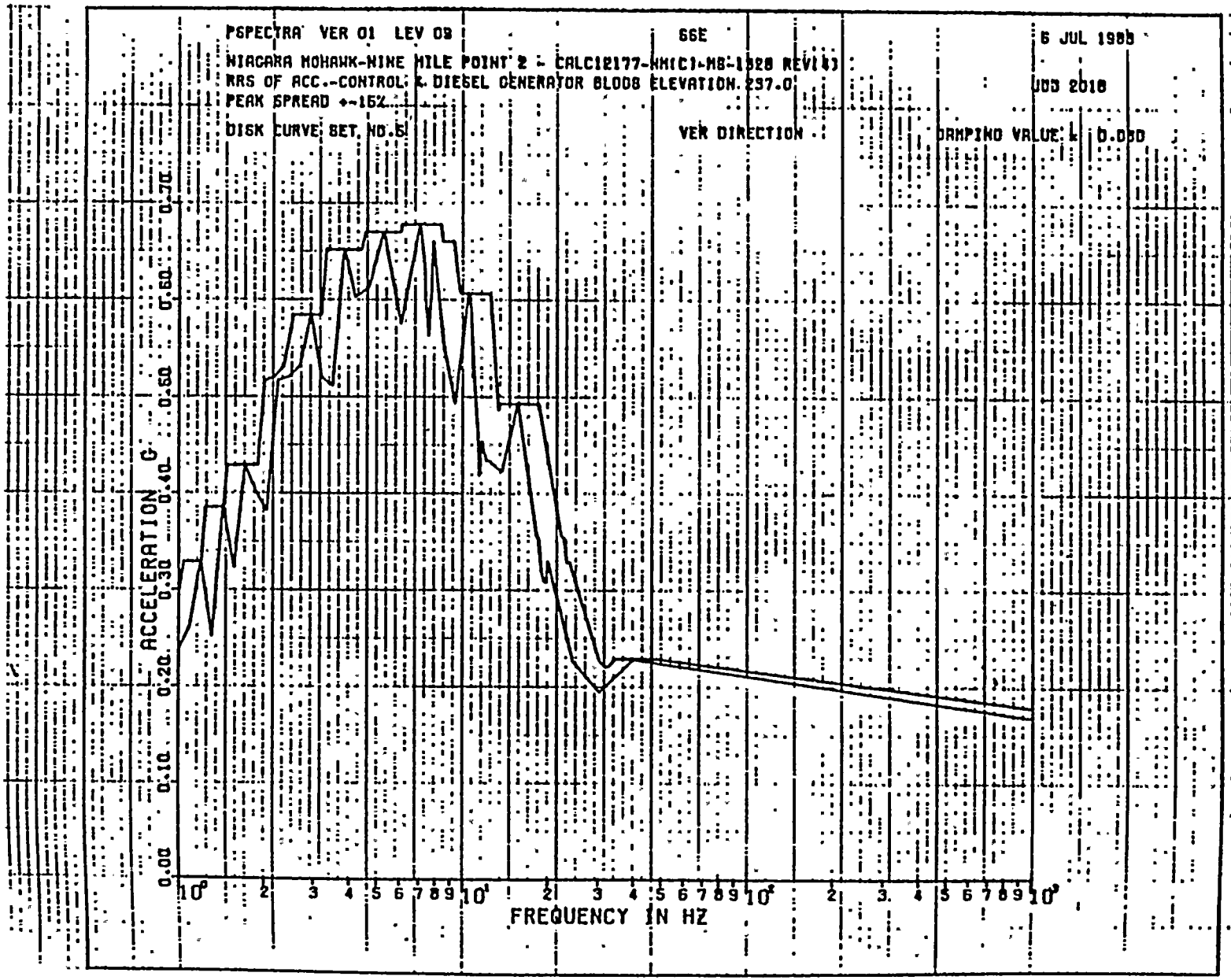
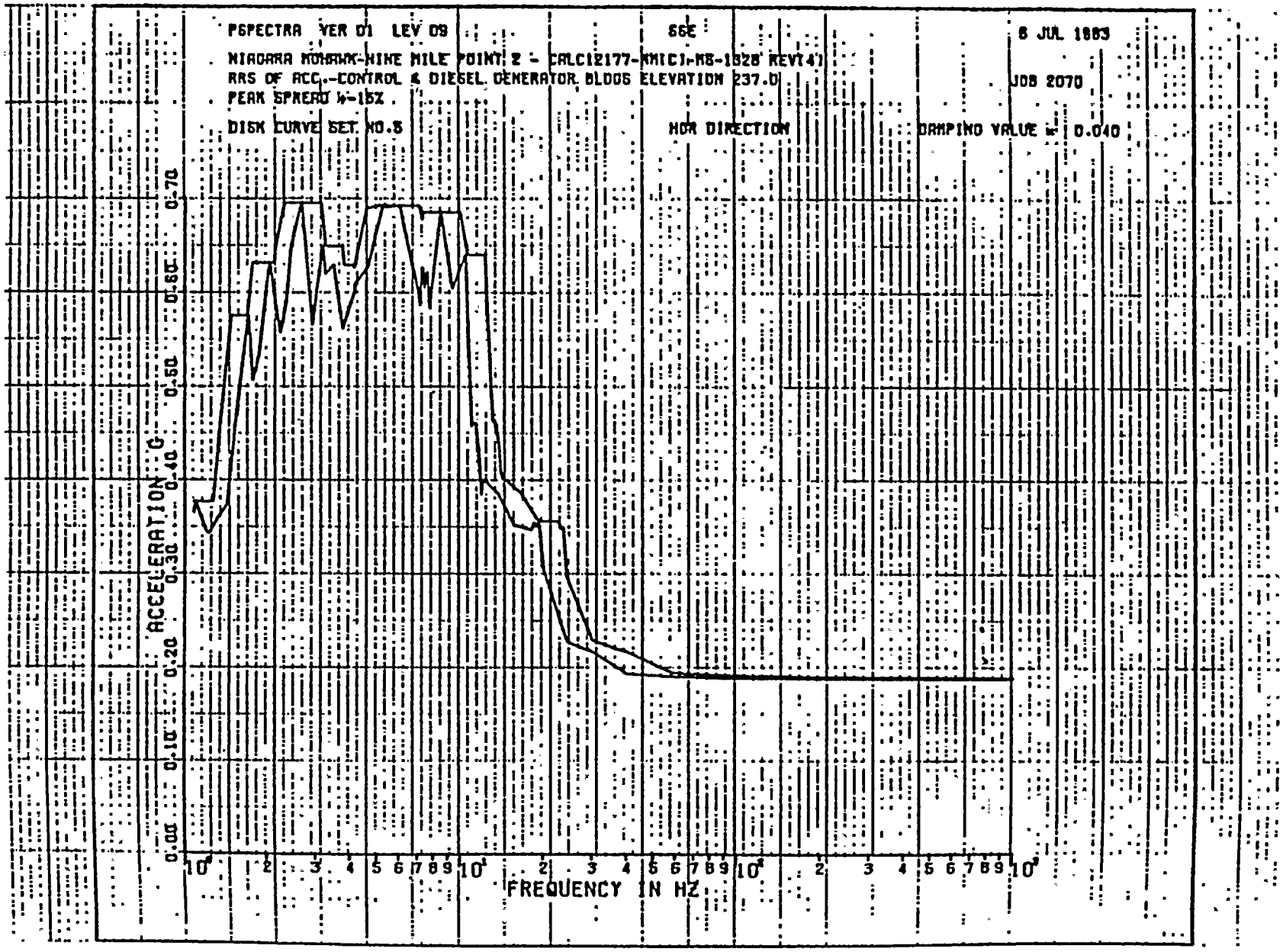
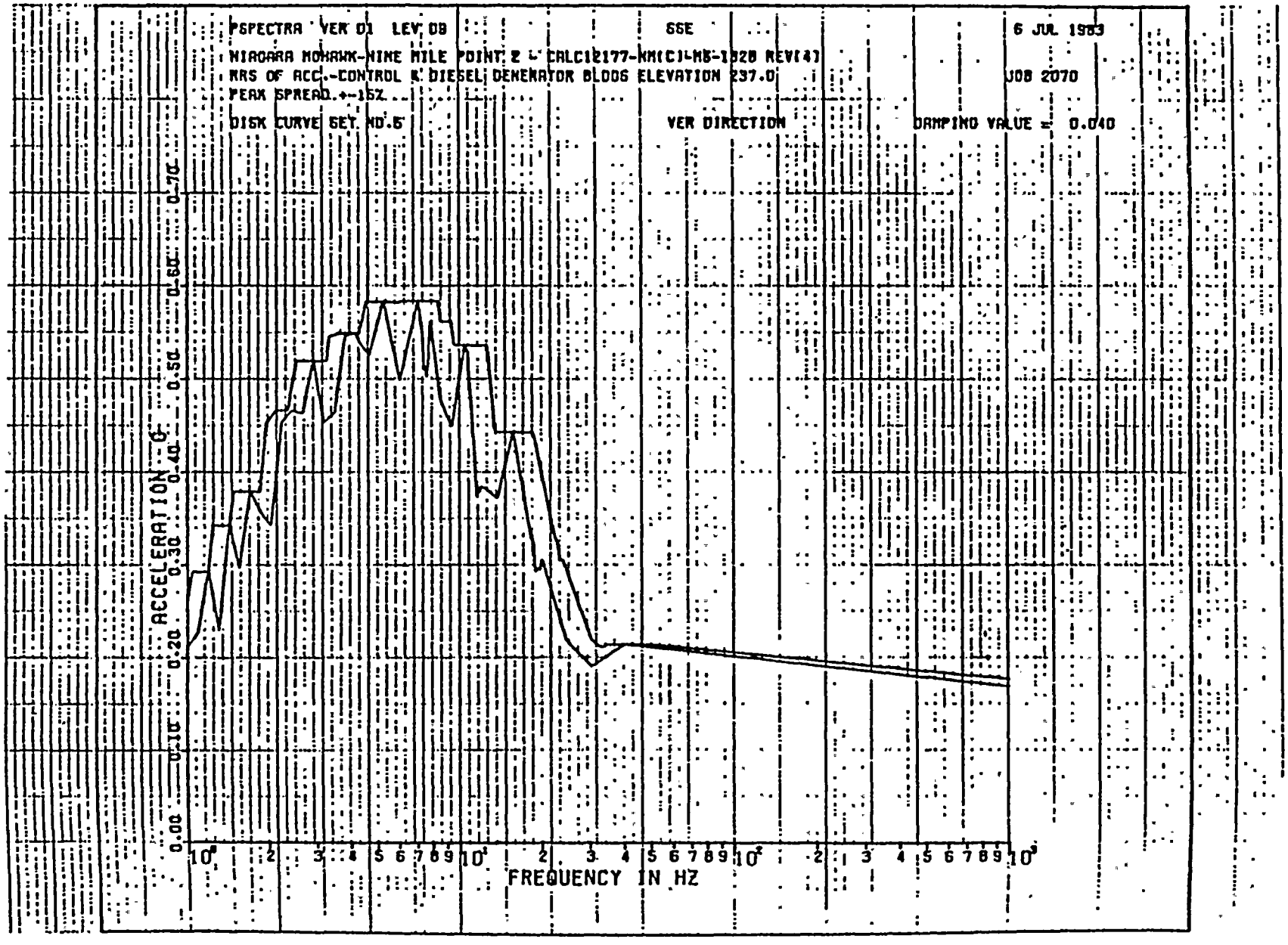

PSPECTRA VER 01 LEV 09
66E
6 JUL 1988
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-NMC1-MS-1528 REV(4)
RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 237.0'
UDS 2018
PEAK SPREAD +-15%
DISK CURVE SET NO.5
VER DIRECTION
DAMPING VALUE % 0.050
ACCELERATION G
0.00
0.10
0.20
0.30
0.40
0.50
0.60
0.70
FREQUENCY IN HZ

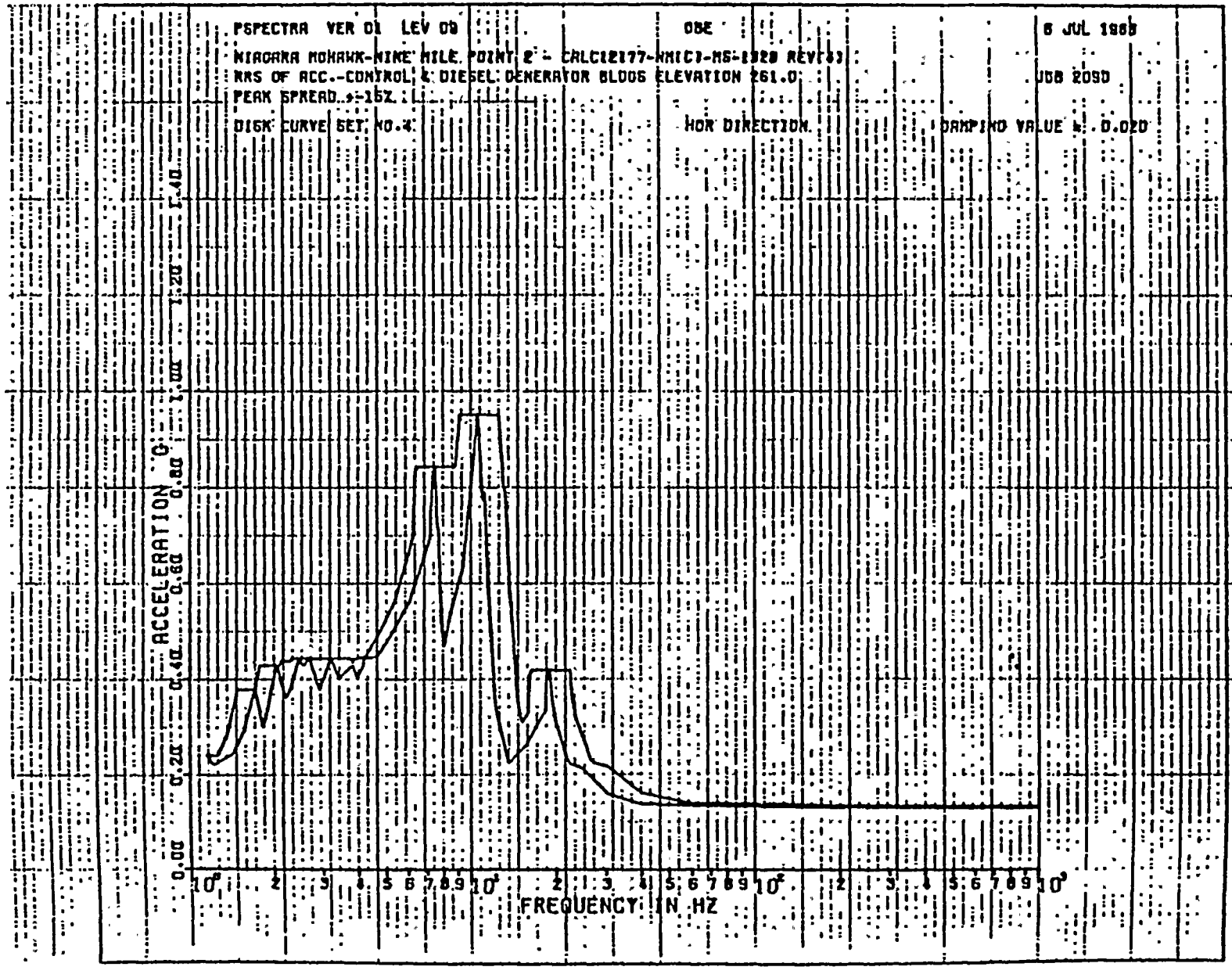
REF 15


PSPECTRA VER 01 LEV 09
SSE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-NMICJ-MS-1528 REV(4)
RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 237.0
JOB 2070
PEAK SPREAD 4-15%
DISK CURVE SET NO.5
HOR DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
0.00
0.10
0.20
0.30
0.40
0.50
0.60
0.70
FREQUENCY IN HZ

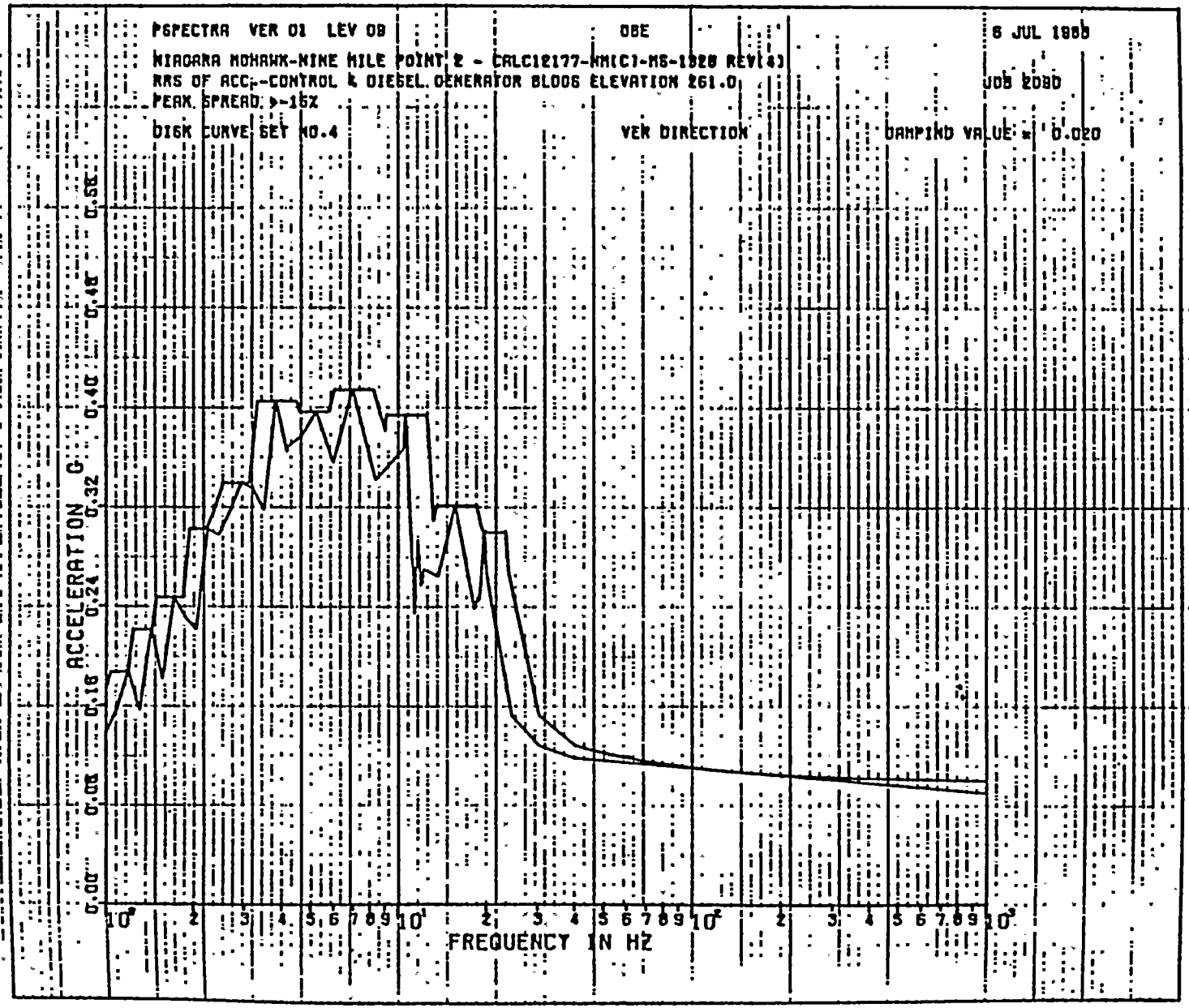
REF 15


PSPECTRA VER 01 LEV 08
SSE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-KM(C)-MS-1328 REV(4)
RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 237.0
JOB 2070
PEAK SPREAD.+-15%
DISK CURVE SET NO.5
VER DIRECTION
DAMPING VALUE = 0.040
ACCELERATION - G
0.00
0.10
0.20
0.30
0.40
0.50
0.60
0.70
FREQUENCY IN HZ

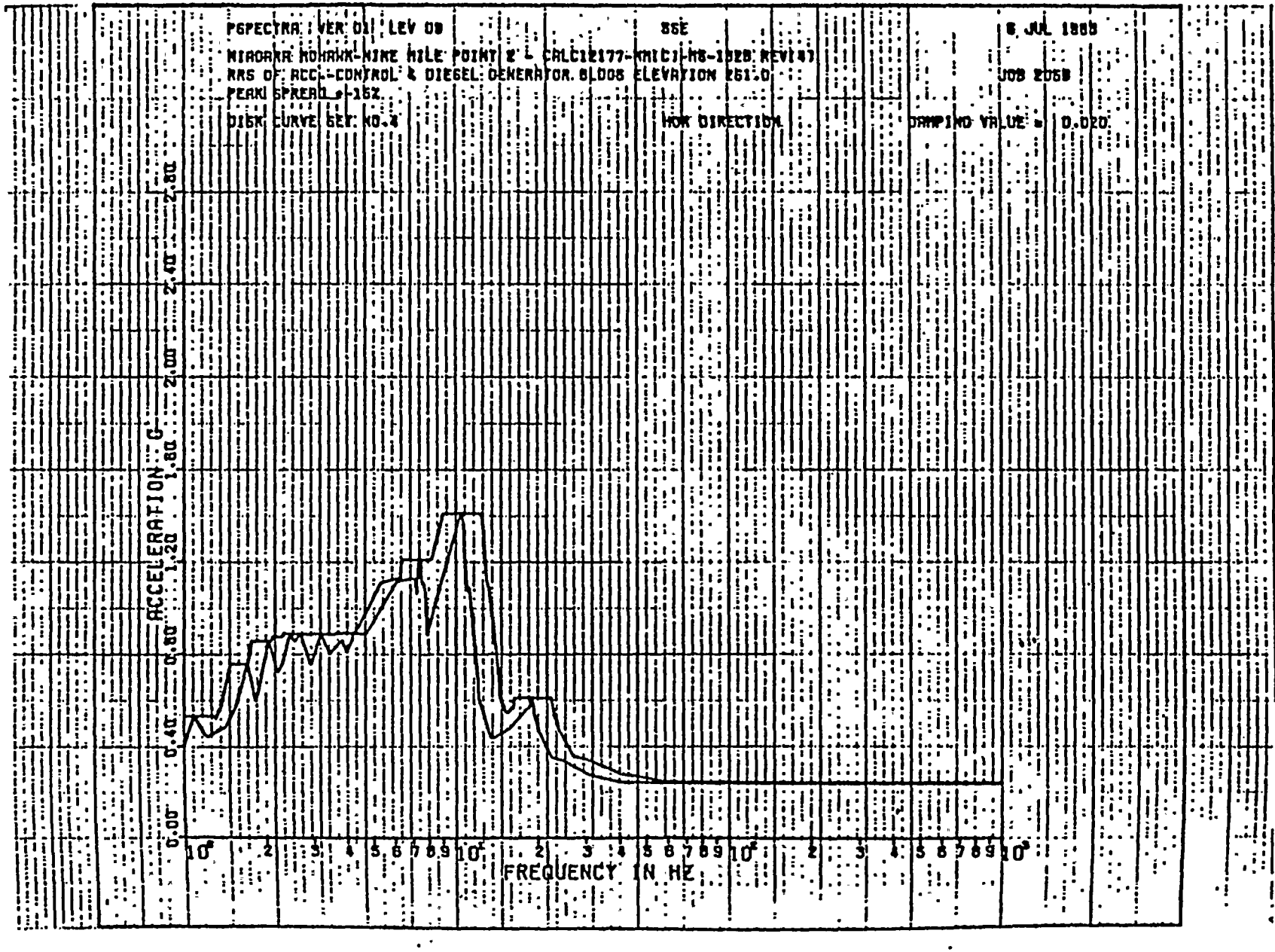
REF 15


PSPECTRA VER 01 LEV 00
OBE
6 JUL 1988
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-NMIC1-MS-1328 REV(3)
RMS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 261.0
JOB 2090
PEAK SPREAD = 15%
DIGK CURVE SET NO.4
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
FREQUENCY IN HZ

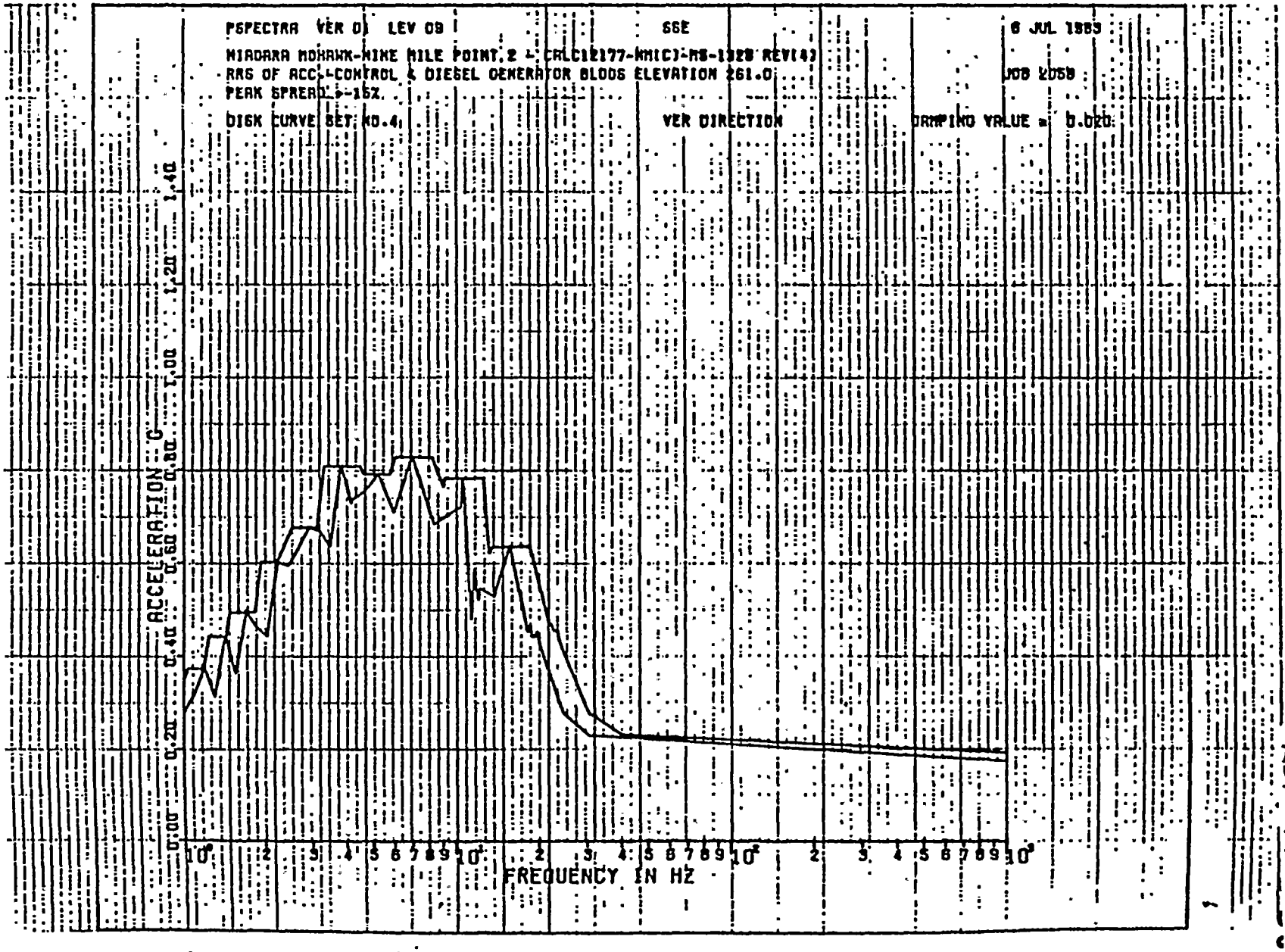
REF 16


PSPECTRA VER 01 LEV 08
OBE
6 JUL 1988
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-MM(C)-MS-1328 REV(4)
RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 261.0
JOB 2080
PEAK SPREAD >-16%
DISK CURVE SET NO.4
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.08
0.16
0.24
0.32
0.40
0.48
0.56
FREQUENCY IN HZ
10⁰
10¹
10²
10³

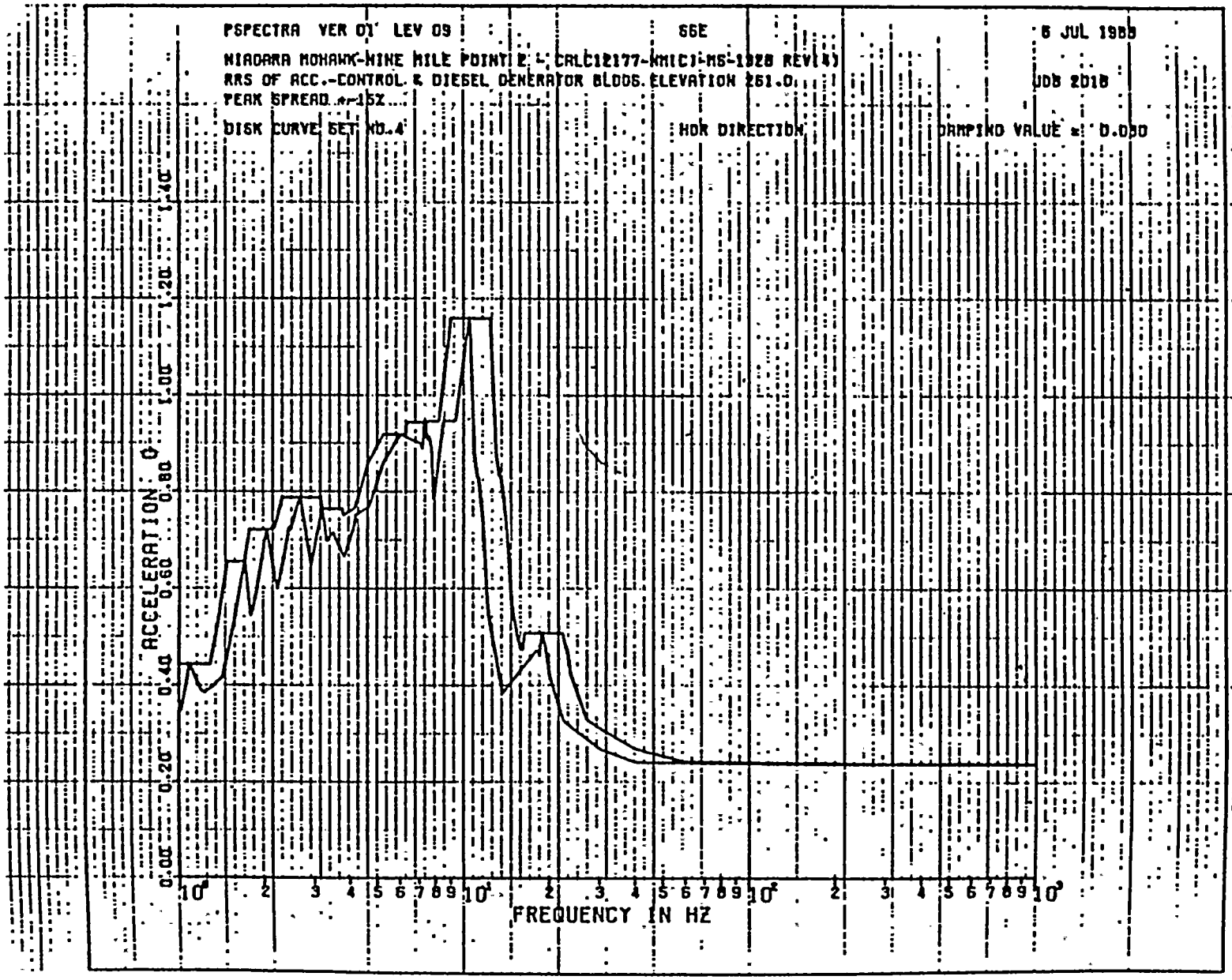
REF 16


PSPECTRA VER 01 LEV 09
SSE
6 JUL 1988
MIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-MMCJ-MS-1028 REV1 A7
RAS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 261.0
JOB 2058
PEAK SPREAD = 15%
DISK CURVE SET NO.4
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

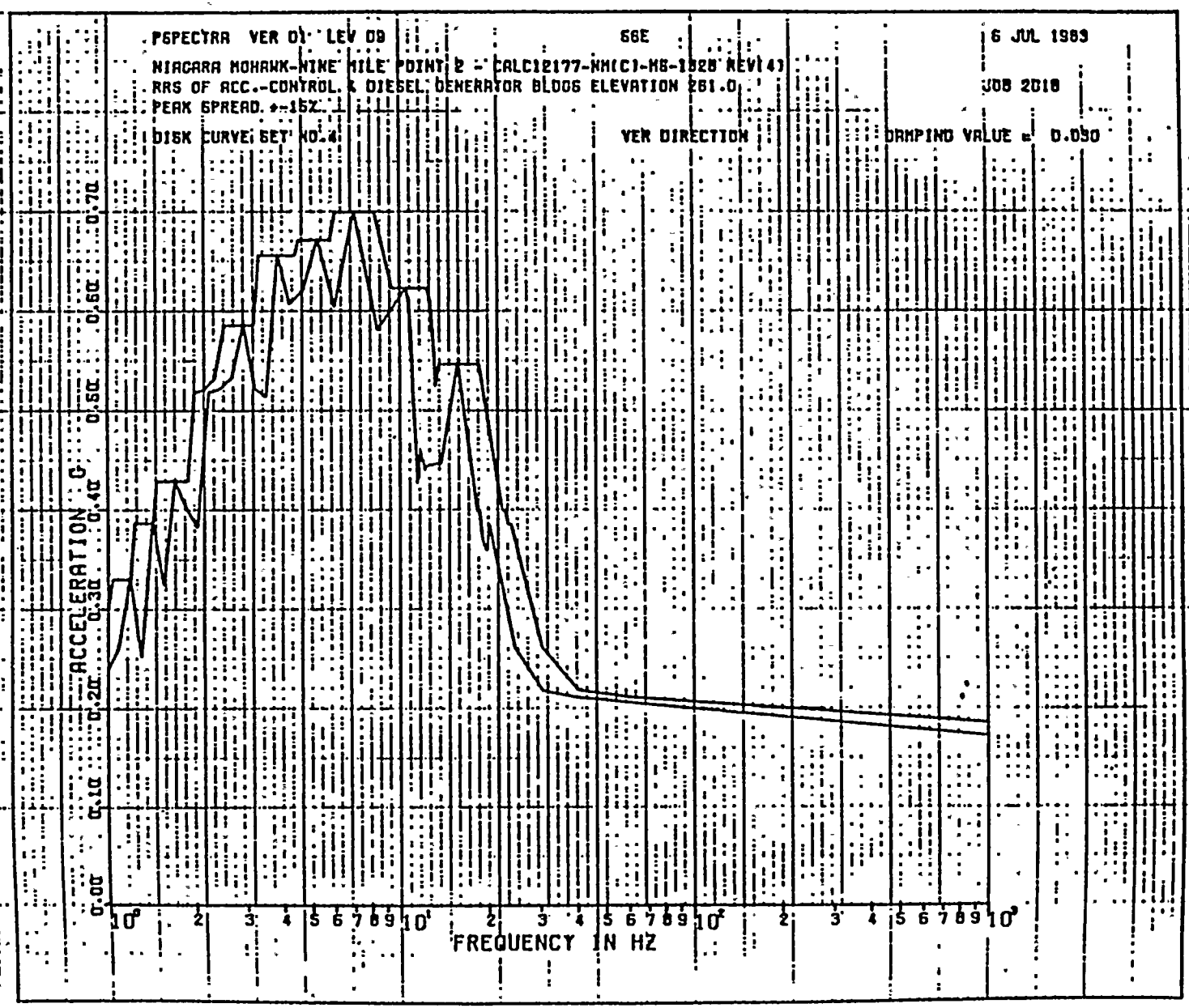
REF 16


PSPECTRA VER 01 LEV 09
SSE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-MM(C)-MS-1328 REV(4)
RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 261.0
JOB 2059
PEAK SPREAD = -15%
DISK CURVE SET: KO.4
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION - G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
FREQUENCY IN HZ

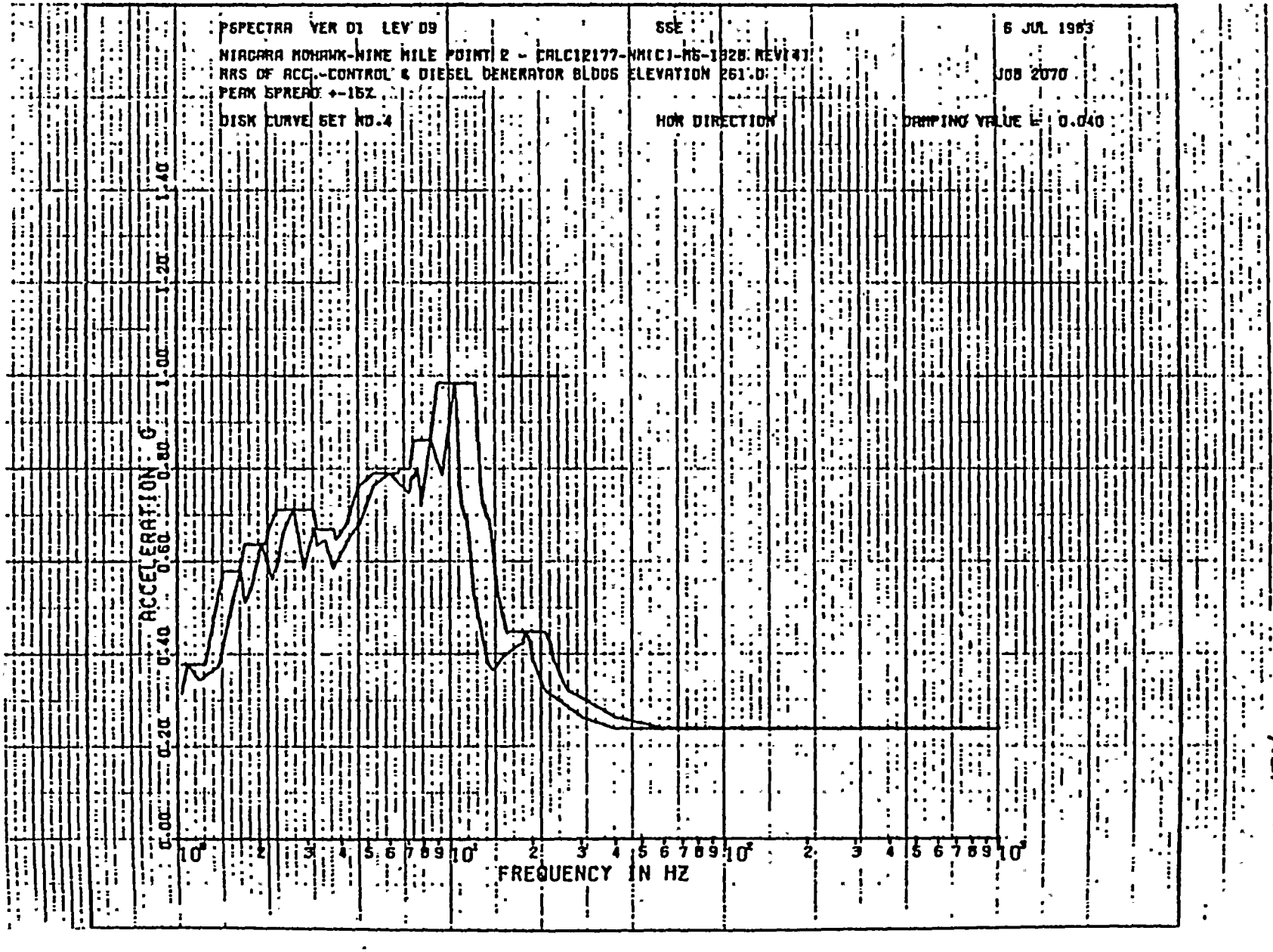
REF. 16


PSPECTRA VER 01 LEV 09
SSE
6 JUL 1988
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-NMIC1-MS-1928 REV(4)
RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS. ELEVATION 261.0
UDB 2018
PEAK SPREAD = 15%
DISK CURVE SET NO.4
HOR DIRECTION
DAMPING VALUE = 0.050
ACCELERATION G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
FREQUENCY IN HZ

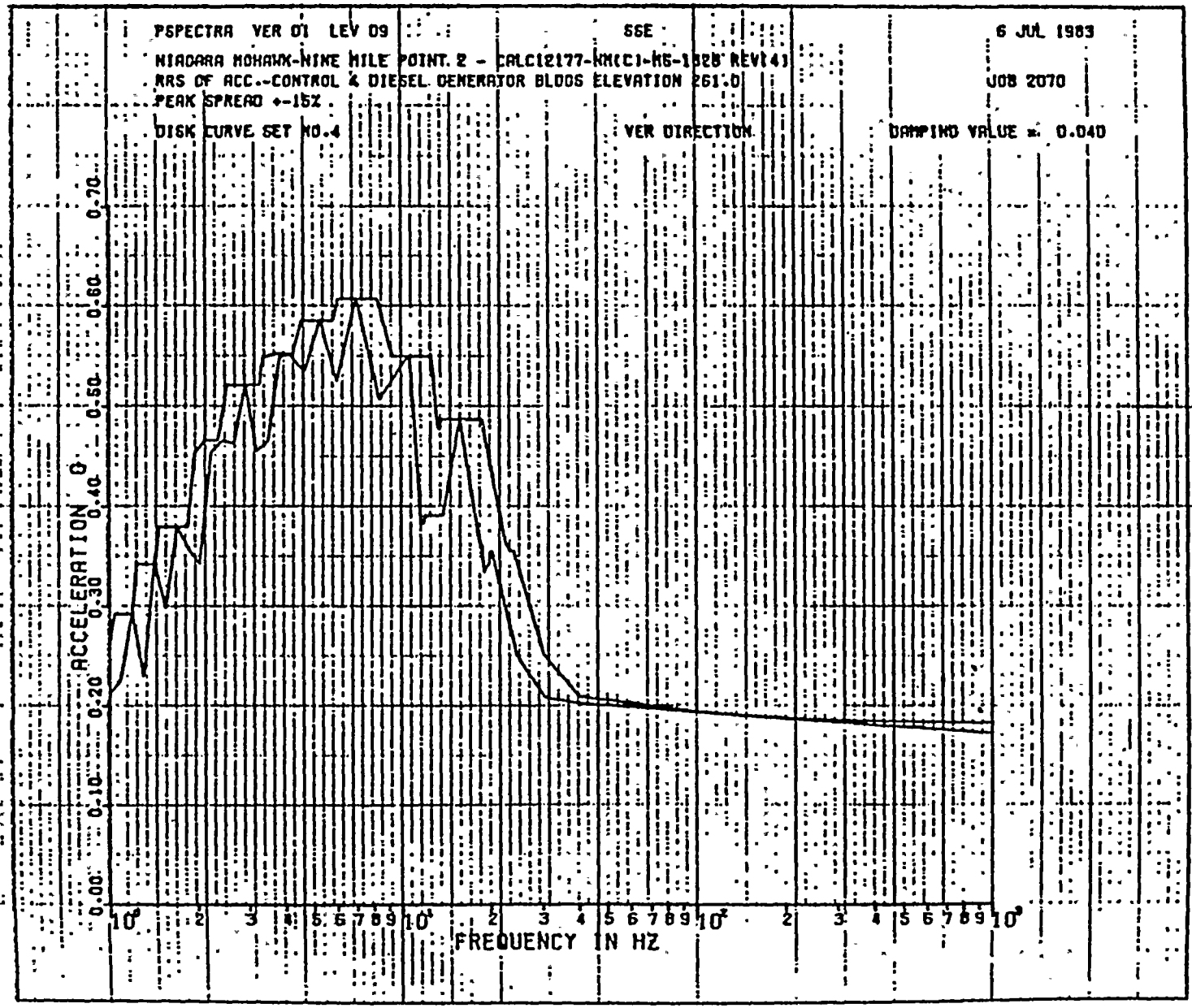
REF 16


PSPECTRA VER 01 LEV 09
66E
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-NM(C)-MS-1528 REV(4)
RRS OF ACC.-CONTROL. & DIESEL GENERATOR BLDGS ELEVATION 261.0
JOB 2018
PEAK SPREAD. +-15%
DISK CURVE SET NO.4
VER DIRECTION
DAMPING VALUE = 0.050
ACCELERATION G
0.00G
0.10G
0.20G
0.30G
0.40G
0.50G
0.60G
0.70G
FREQUENCY IN HZ

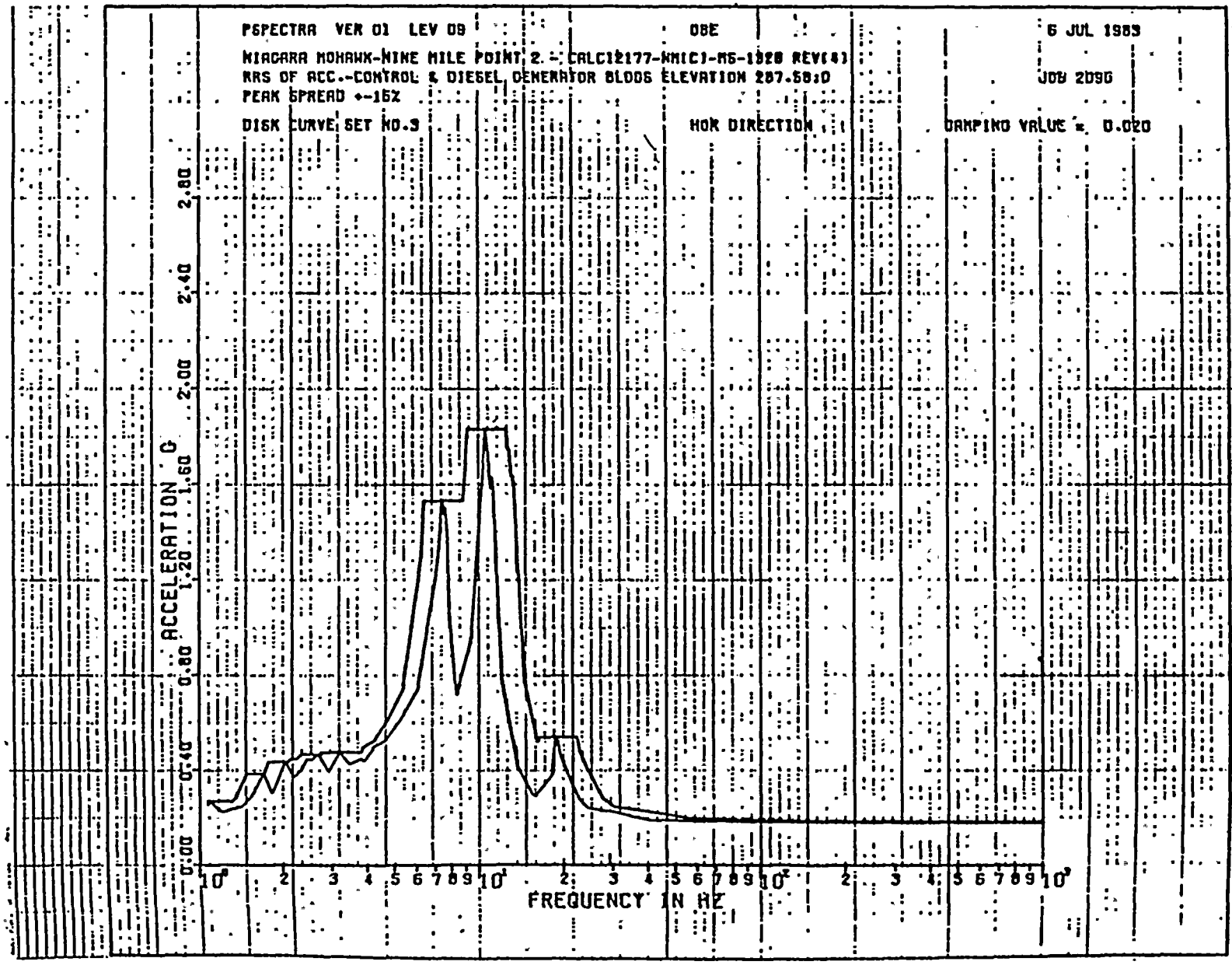
REF 16


PSPECTRA VER 01 LEV 09
SSE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-NMIC1-M6-1328 REV(4)
RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 261.0
JOB 2070
PEAK SPREAD +-15%
DISK CURVE SET NO.4
HOR DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
FREQUENCY IN HZ

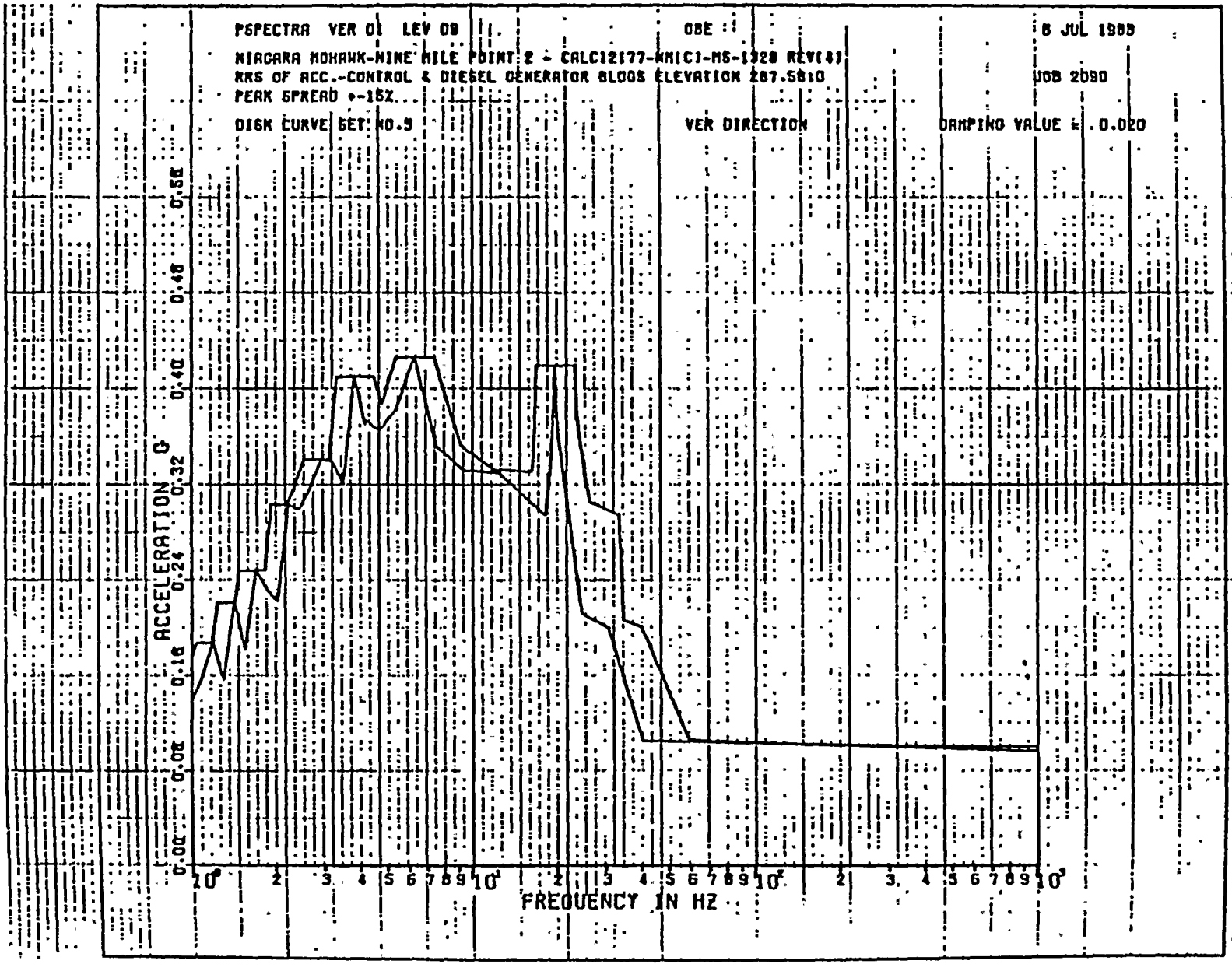
REF 16


PSPECTRA VER 01 LEV 09
SSE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-MM(C)-M5-1828 REV(4)
RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 261.0
JOB 2070
PEAK SPREAD +-15%
DISK CURVE SET NO.4
VER DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
0.00
0.10
0.20
0.30
0.40
0.50
0.60
0.70
FREQUENCY IN HZ

REF 16


PSPECTRA VER 01 LEV 09
OBE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-NMIC1-M5-1920 REV(4)
RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 287.58:0
JOB 2090
PEAK SPREAD +-15%
DISK CURVE SET NO.3
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

REF 17


PSPECTRA VER 01 LEV 09
OBE
8 JUL 1989
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-MM(C)-MS-1328 REV(4)
RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 267.5810
JOB 2090
PEAK SPREAD +-15%
DISK CURVE SET: NO.9
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.08
0.16
0.24
0.32
0.40
0.48
0.56
FREQUENCY IN HZ

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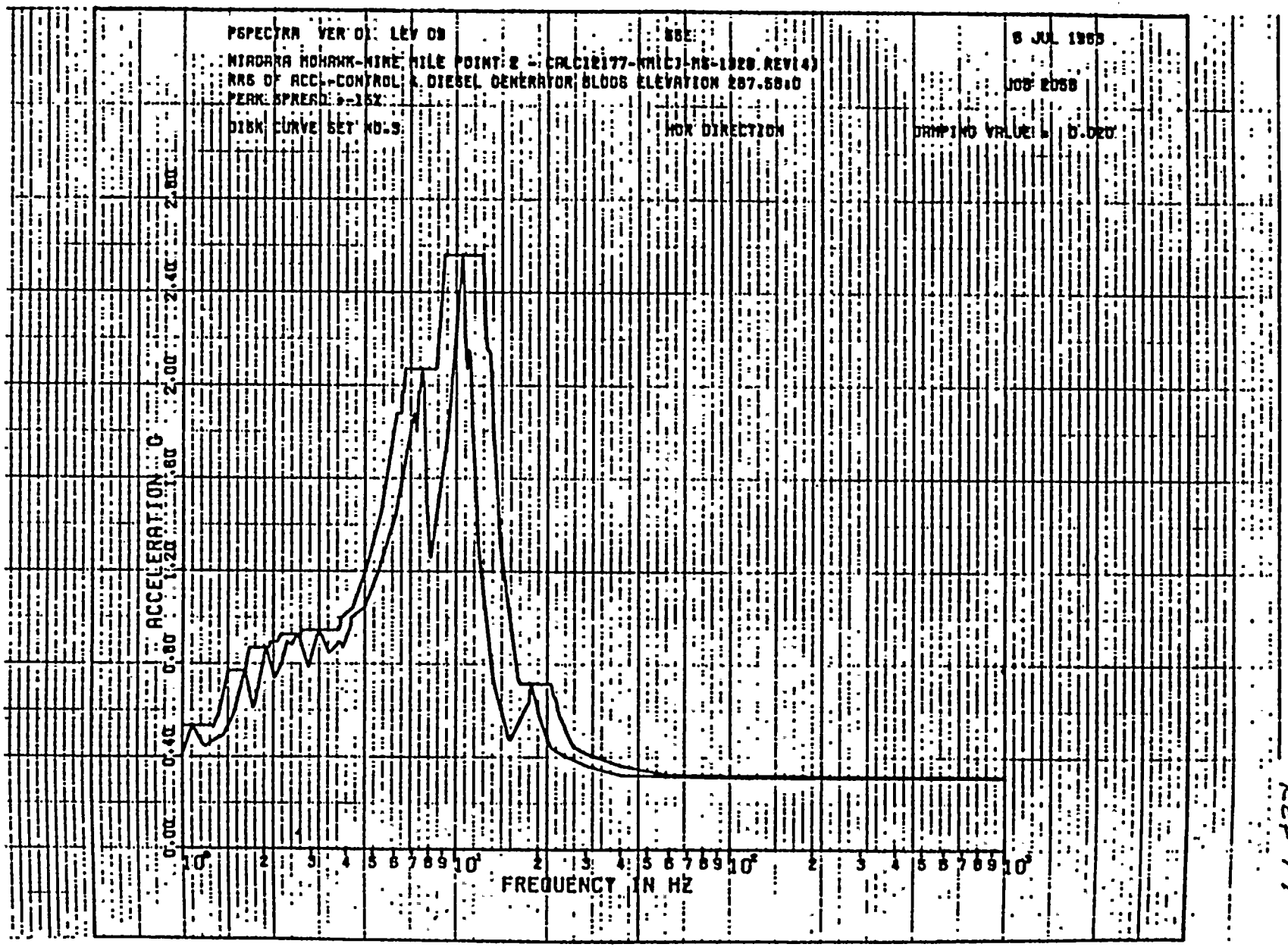
PSPECTRA VER 01 LEV 09
SSE
8 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-MHCJ-MS-1928.REV(4)
RRS OF ACCL.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 287.58:0
JOB 2058
PEAK SPREAD: 5-15%
DIBK CURVE SET NO.3
HOR DIRECTION
DAMPING VALUE: 0.020
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ
10
2
3
4
5
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7
8
9
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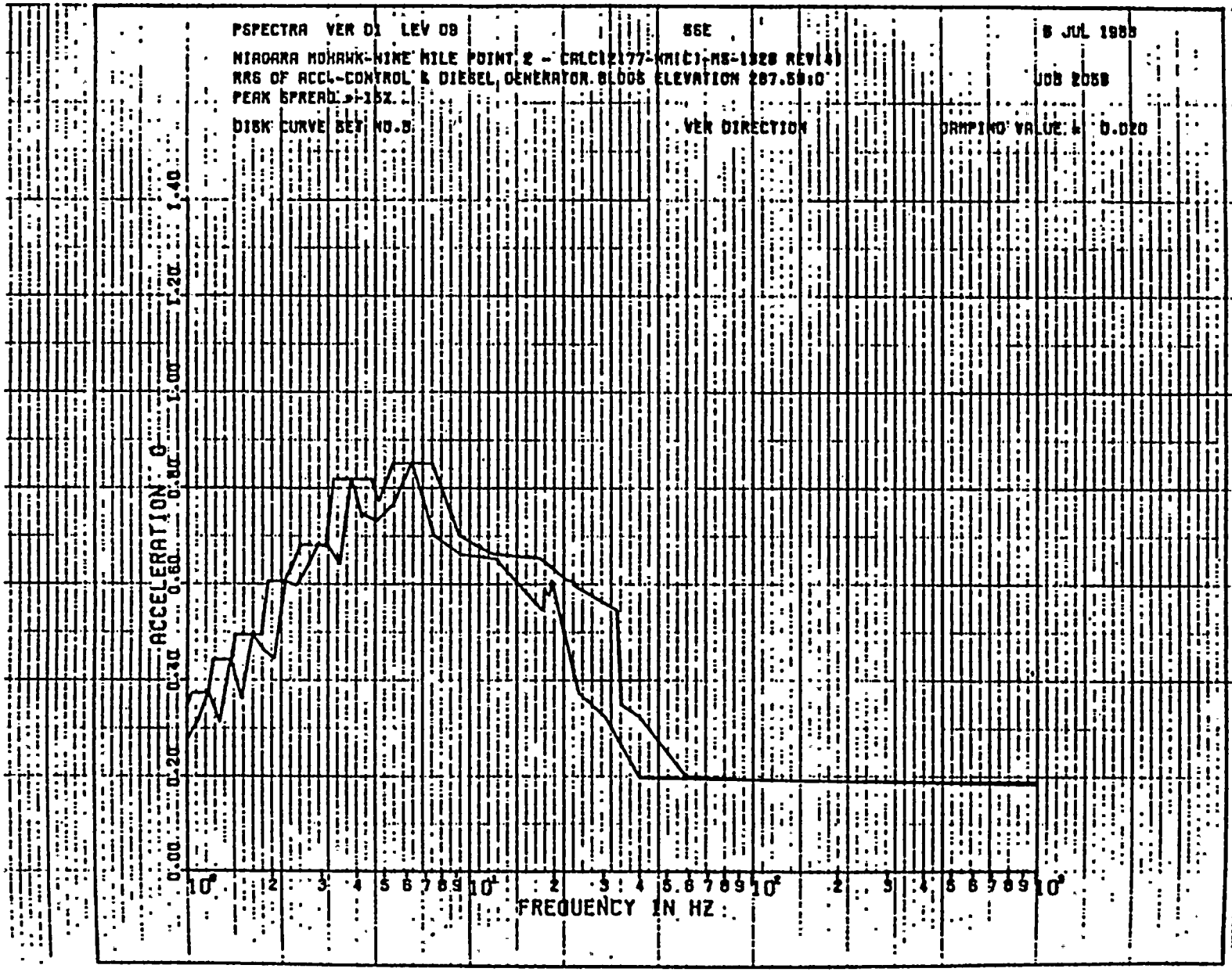
9
10

REF 17


PSPECTRA VER 01 LEV 08
SSE
8 JUL 1988
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-MI(C)-MS-1328 REV(4)
RRS OF ACCL-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 287.50:0
JOB 2058
PEAK SPREAD >-15%
DISK CURVE SET NO.5
VER DIRECTION
DAMPING VALUE: 0.020
ACCELERATION G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
FREQUENCY IN HZ

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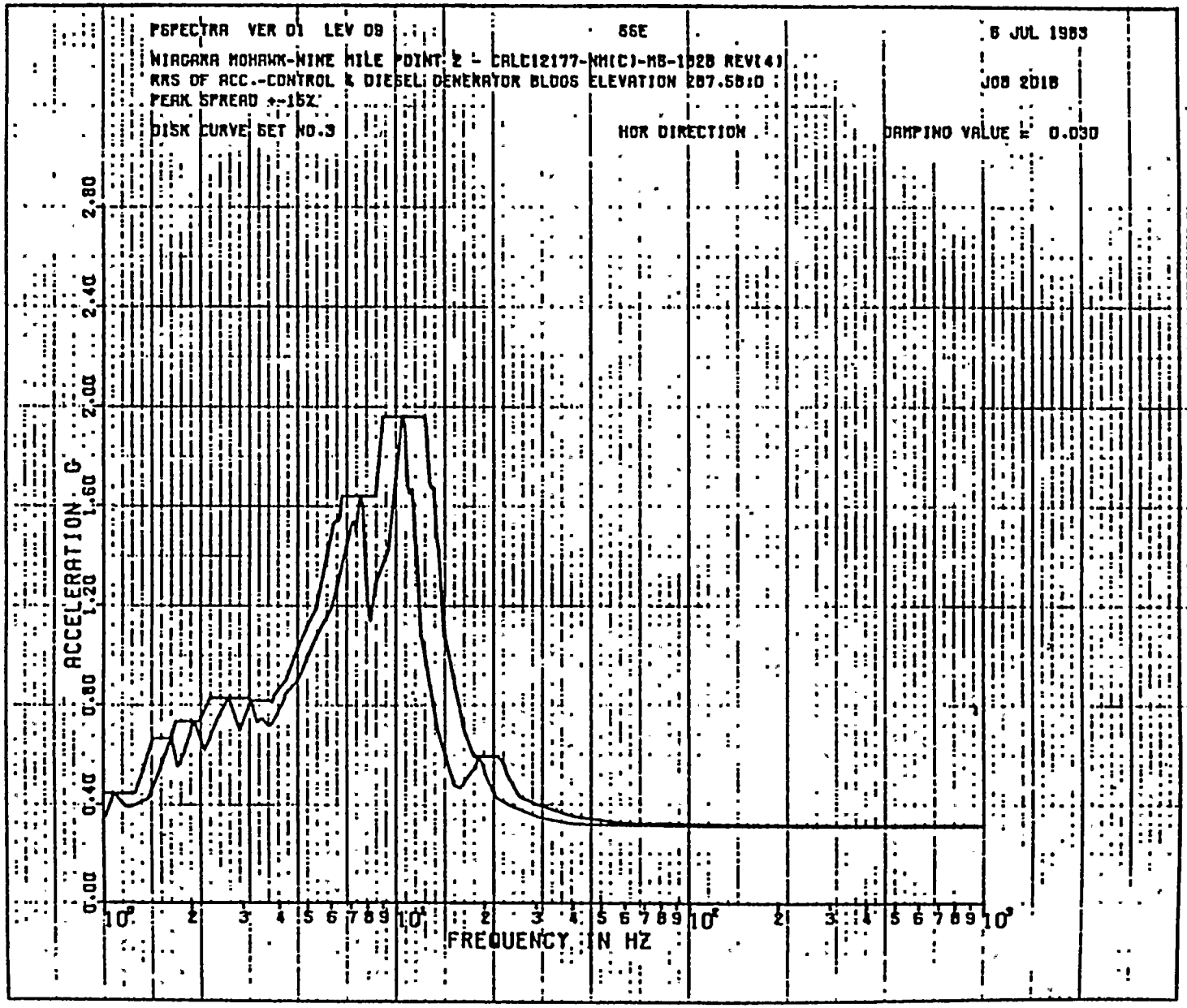
PSPECTRA VER 01 LEV 09
SSE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-NMC(C)-MB-1028 REV(4)
RMS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 287.58:0
JOB 2018
PEAK SPREAD +-15%
DISK CURVE SET NO.3
HOR DIRECTION
DAMPING VALUE = 0.030
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

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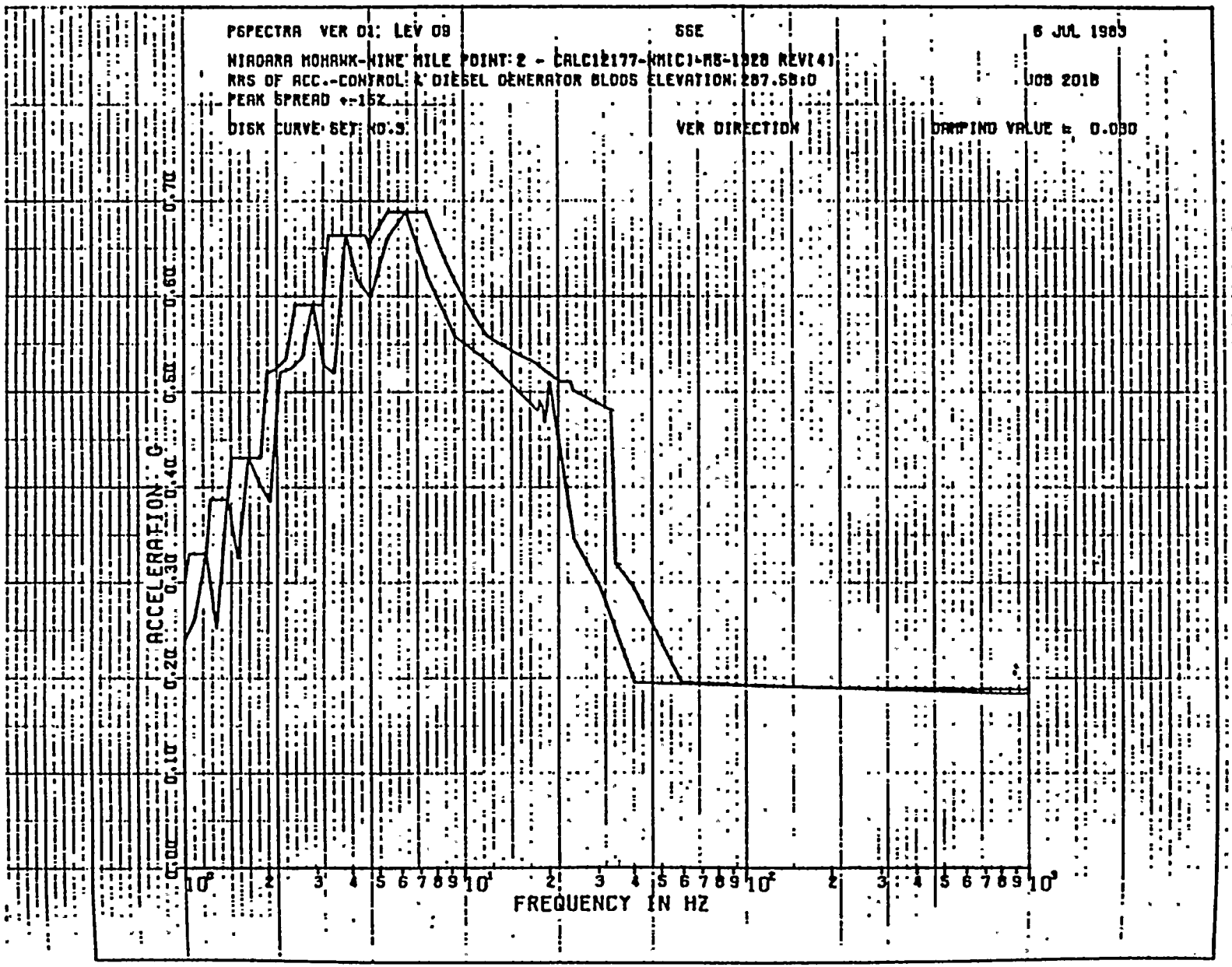
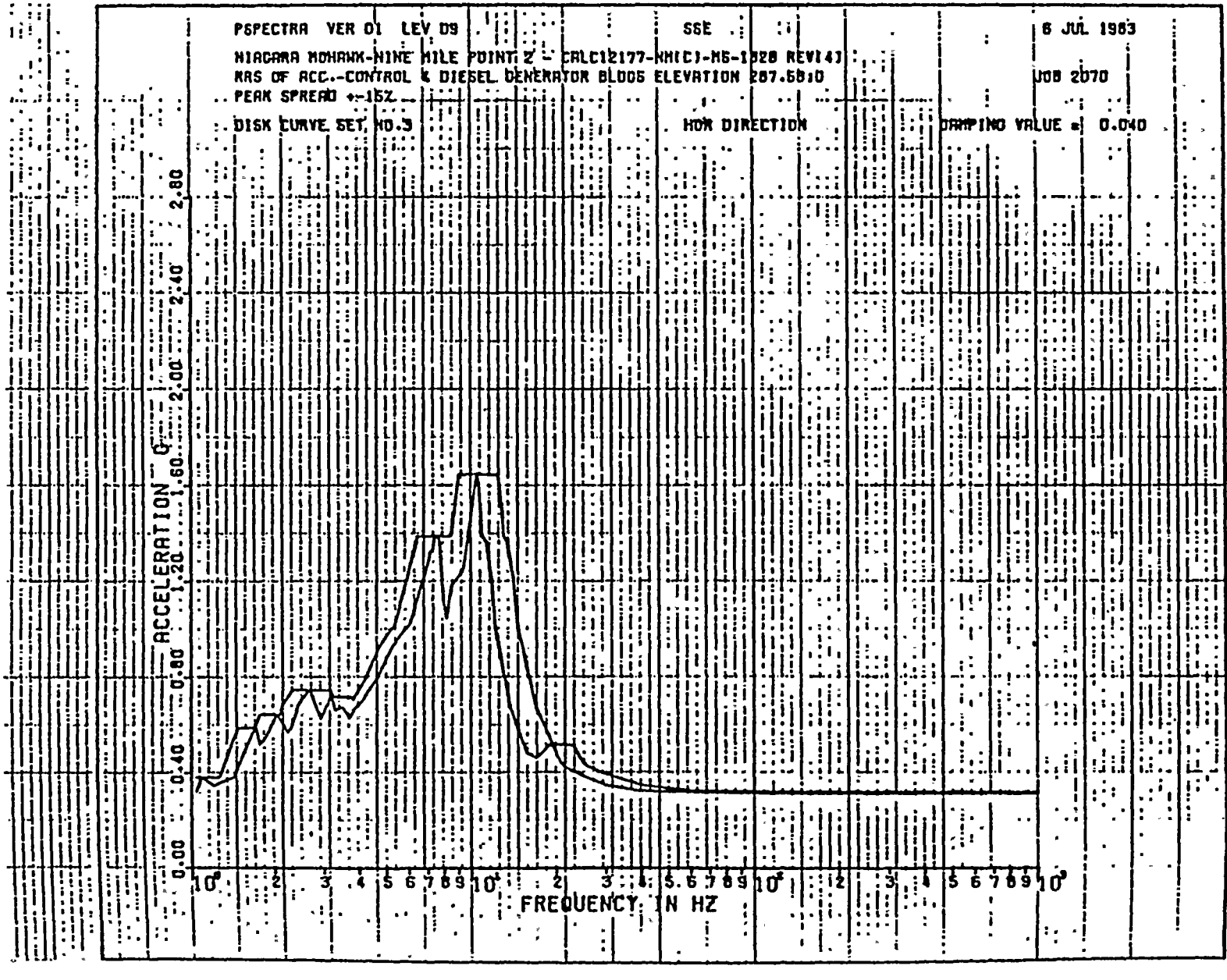

PSPECTRA VER 01: LEV 09
SSE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-NMIC1-MS-1928 REV(4)
RMS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION: 287.58:0
PEAK SPREAD +-15%
DISK CURVE SET NO.3
VER DIRECTION
DAMPING VALUE = 0.030
ACCELERATION G
0.00
0.10
0.20
0.30
0.40
0.50
0.60
0.70
FREQUENCY IN HZ

REF 17


PSPECTRA VER 01 LEV 09
SSE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-NM(C)-M5-1328 REV(4)
MAS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 287.58:0
JOB 2070
PEAK SPREAD +-15%
DISK CURVE SET NO.3
HOR DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

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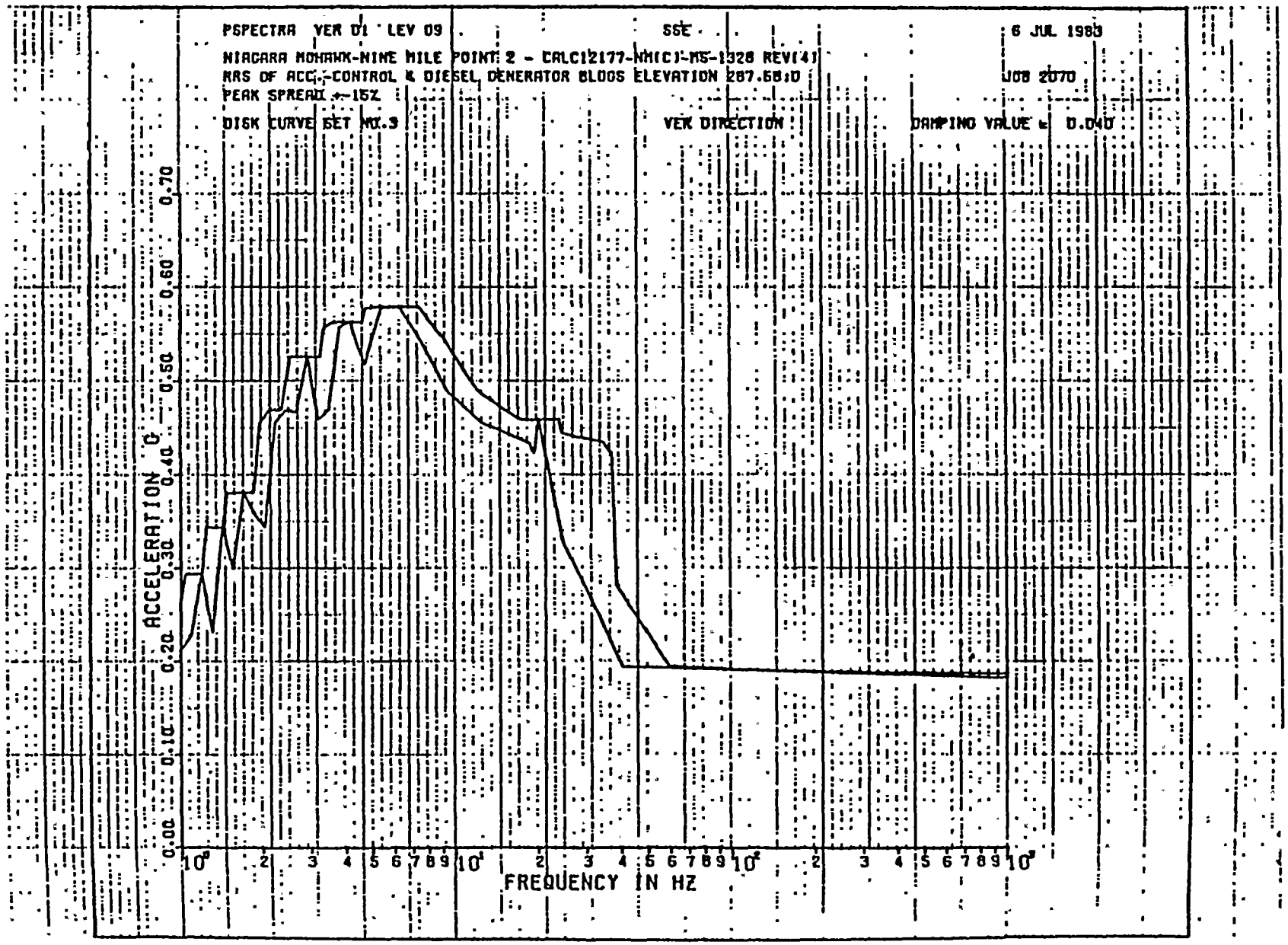
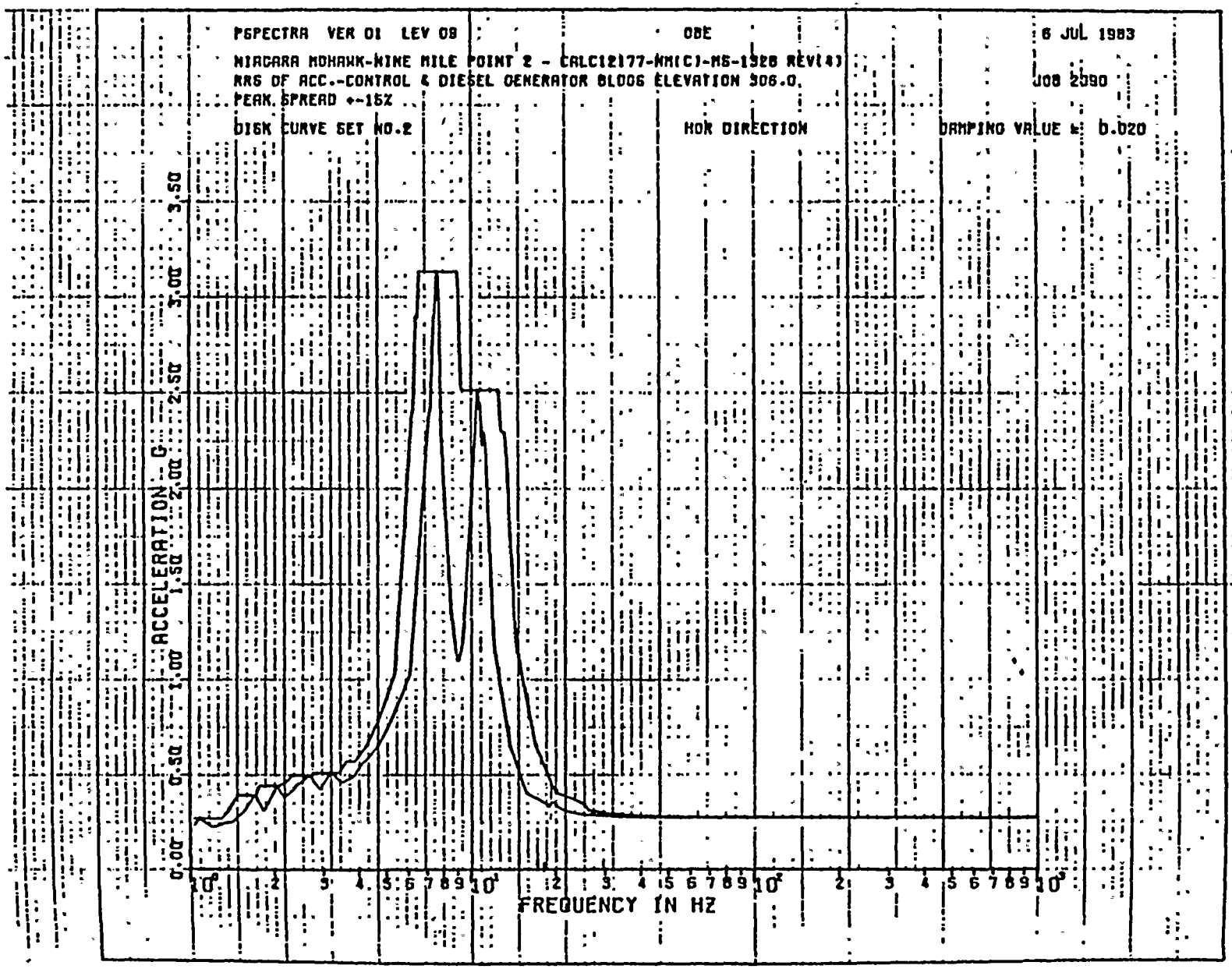
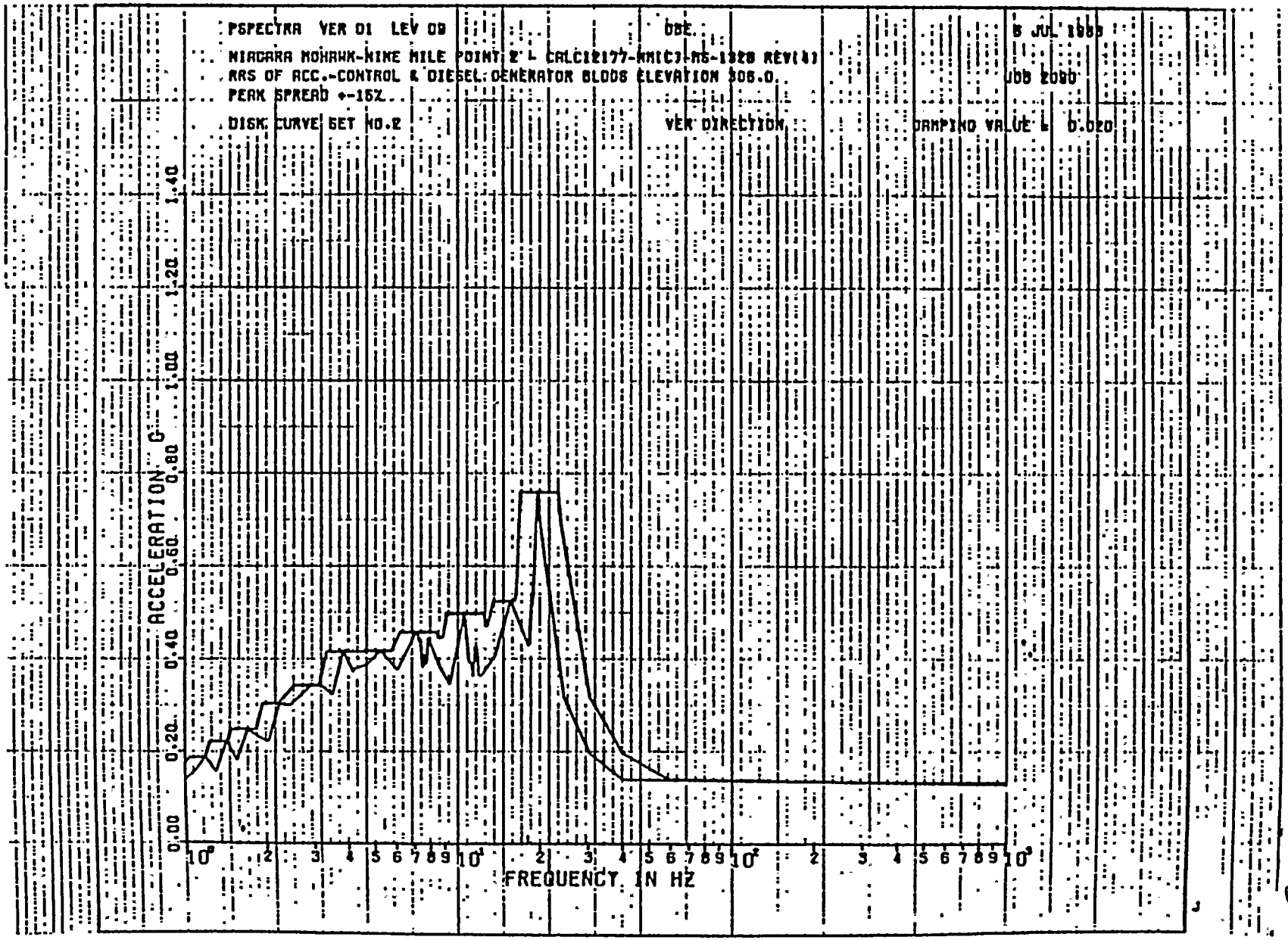

PSPECTRA VER 01 LEV 09
SSE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-NMIC1-MS-1328 REV(4)
RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 287.68:0
JOB 2070
PEAK SPREAD +-15%
DISK CURVE SET NO.3
VER DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
0.00
0.10
0.20
0.30
0.40
0.50
0.60
0.70
FREQUENCY IN HZ

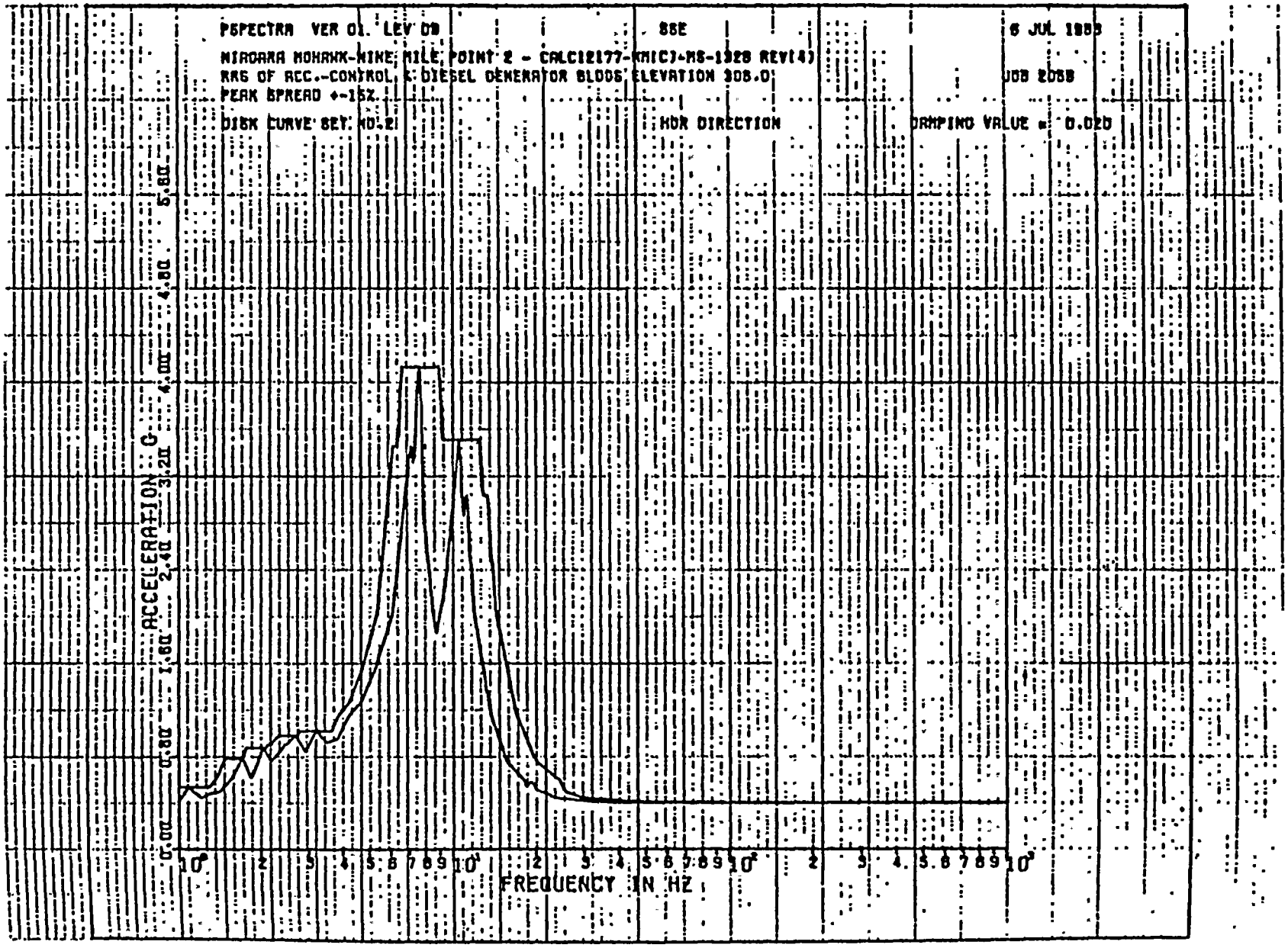
REF 17


PSPECTRA VER 01 LEV 09
OBE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-MM(C)-MS-1328 REV(4)
RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 306.0.
JOB 2090
PEAK SPREAD +-15%
DISK CURVE SET NO.2
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION - G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ

REF 18


PSPECTRA VER 01 LEV 00
OBE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 L CALC(2177-MMIC)-MS-1328 REV(4)
RRS OF RCC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 306.0
JOB 2080
PEAK SPREAD +-15%
DISK CURVE SET NO.2
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
FREQUENCY IN HZ

REF 1B


PSPECTRA VER 01. LEV 00
SSE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-MHIC)-MS-1328 REV(4)
RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 305.0
JOB 2058
PEAK SPREAD +-15%
DISK CURVE SET NO.2
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION : G
0.00
0.80
1.60
2.40
3.20
4.00
4.80
5.80
FREQUENCY IN HZ

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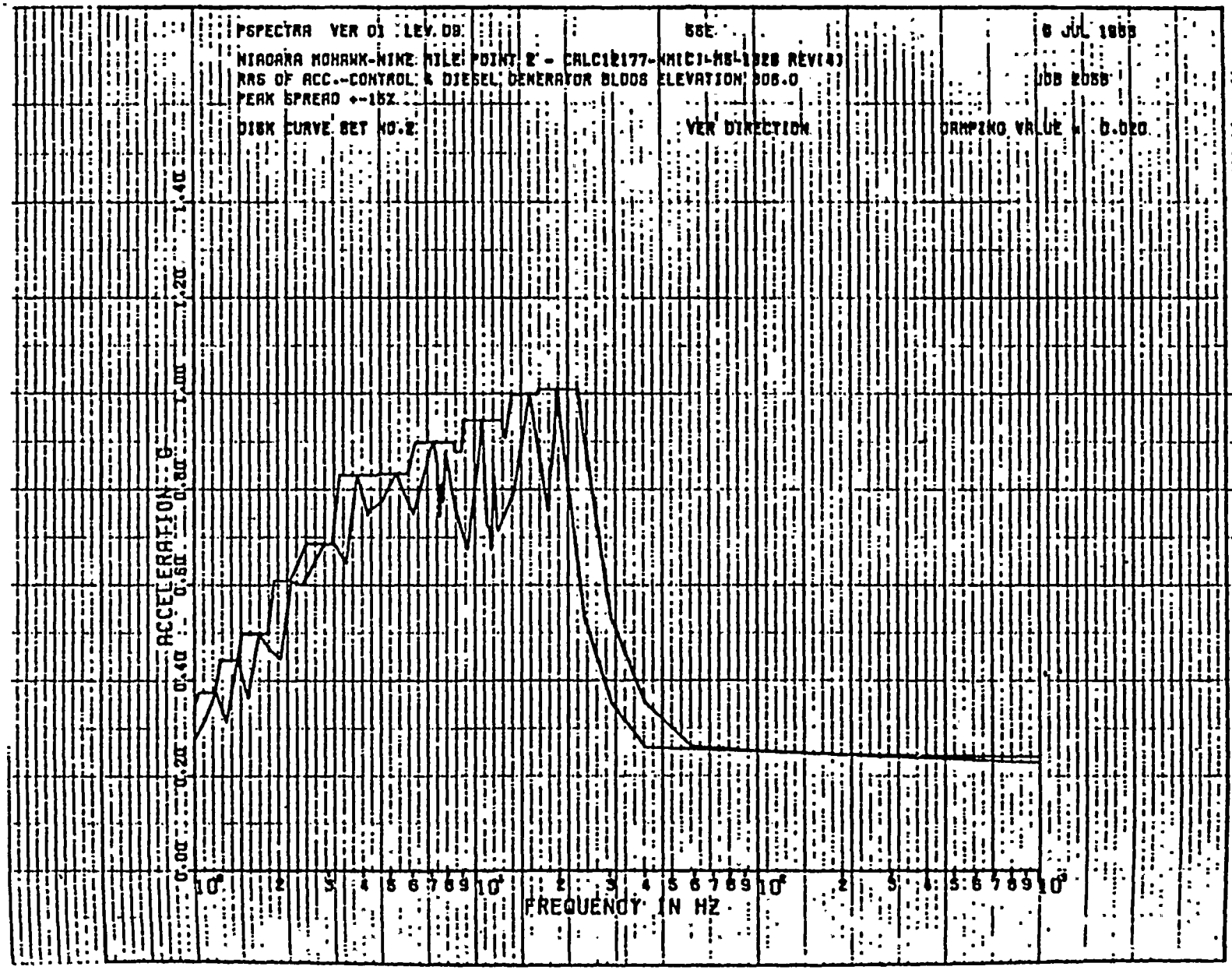
PSPECTRA VER 01 LEV.00
SSE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-NMIC1-MS-1328 REV(4)
RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 306.0
JOB 2058
PEAK SPREAD +-15%
DISK CURVE SET NO.2
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
FREQUENCY IN HZ
10
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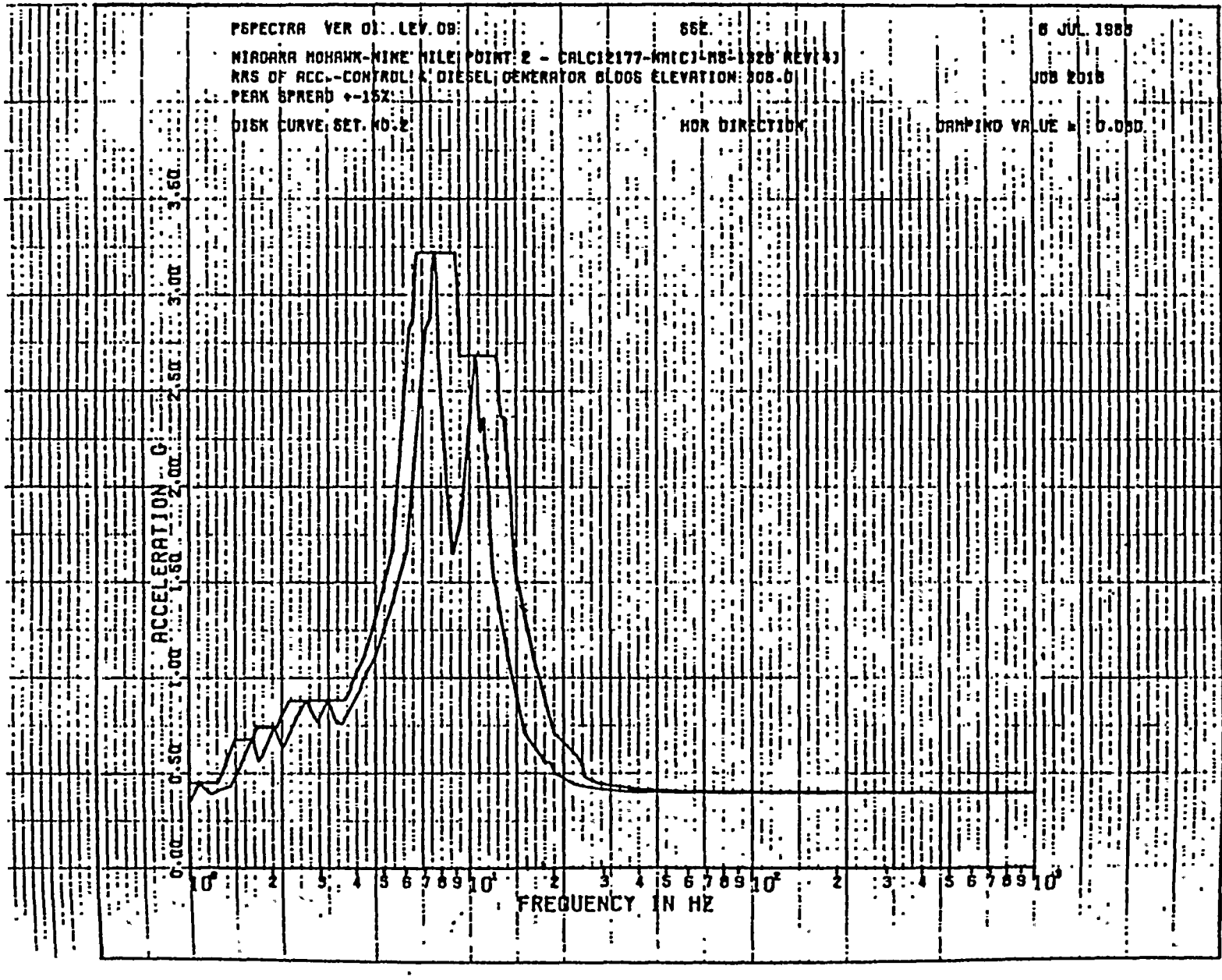
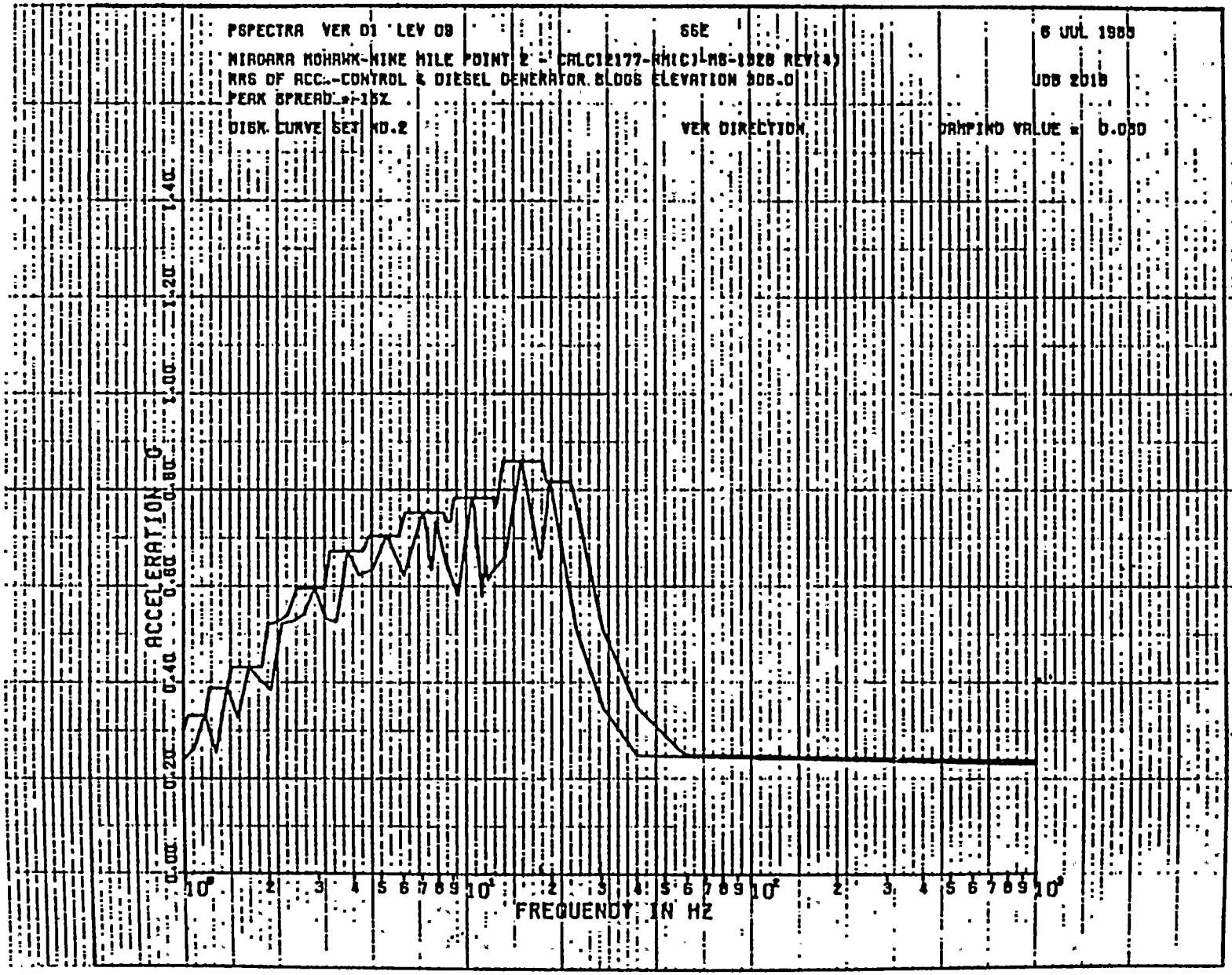

PSPECTRA VER 01 LEV.09
SSE
6 JUL 1988
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-KM(C)-MS-1328 REV(4)
RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION: 308.0
JOB 2018
PEAK SPREAD +-15%
DISK CURVE SET NO.2
HOR DIRECTION
DAMPING VALUE = 0.050
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ

RGA 18


PSPECTRA VER 01 LEV 09
SSE
6 JUL 1988
MIRDARA MOHAWK-NINE MILE POINT 2 - CALC12177-RH(C)-MS-1828 REV(4)
RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 305.0
UDB 2018
PEAK SPREAD =+-15%
DISK CURVE SET NO.2
VER DIRECTION
DAMPING VALUE = 0.050
ACCELERATION G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
FREQUENCY IN HZ

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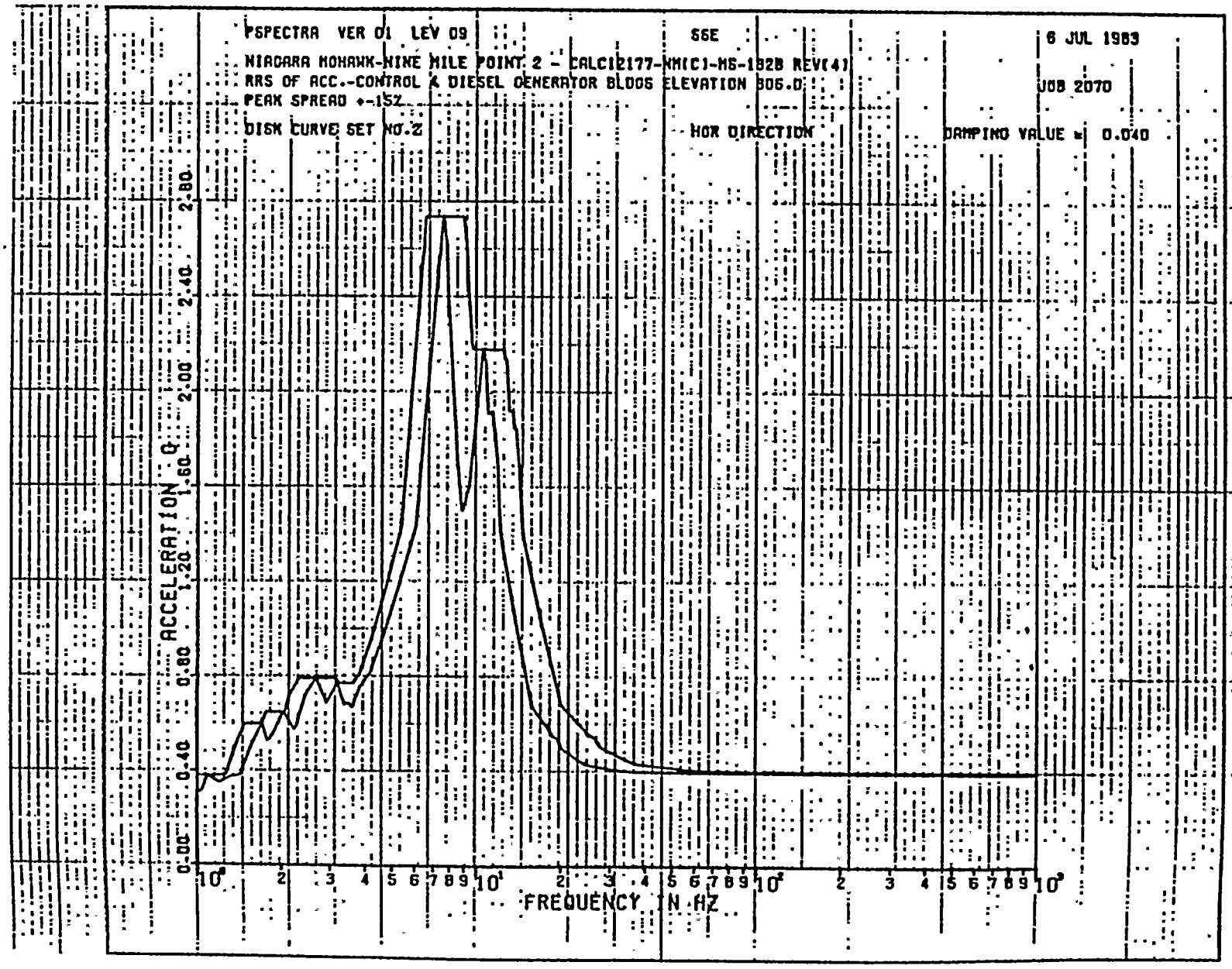
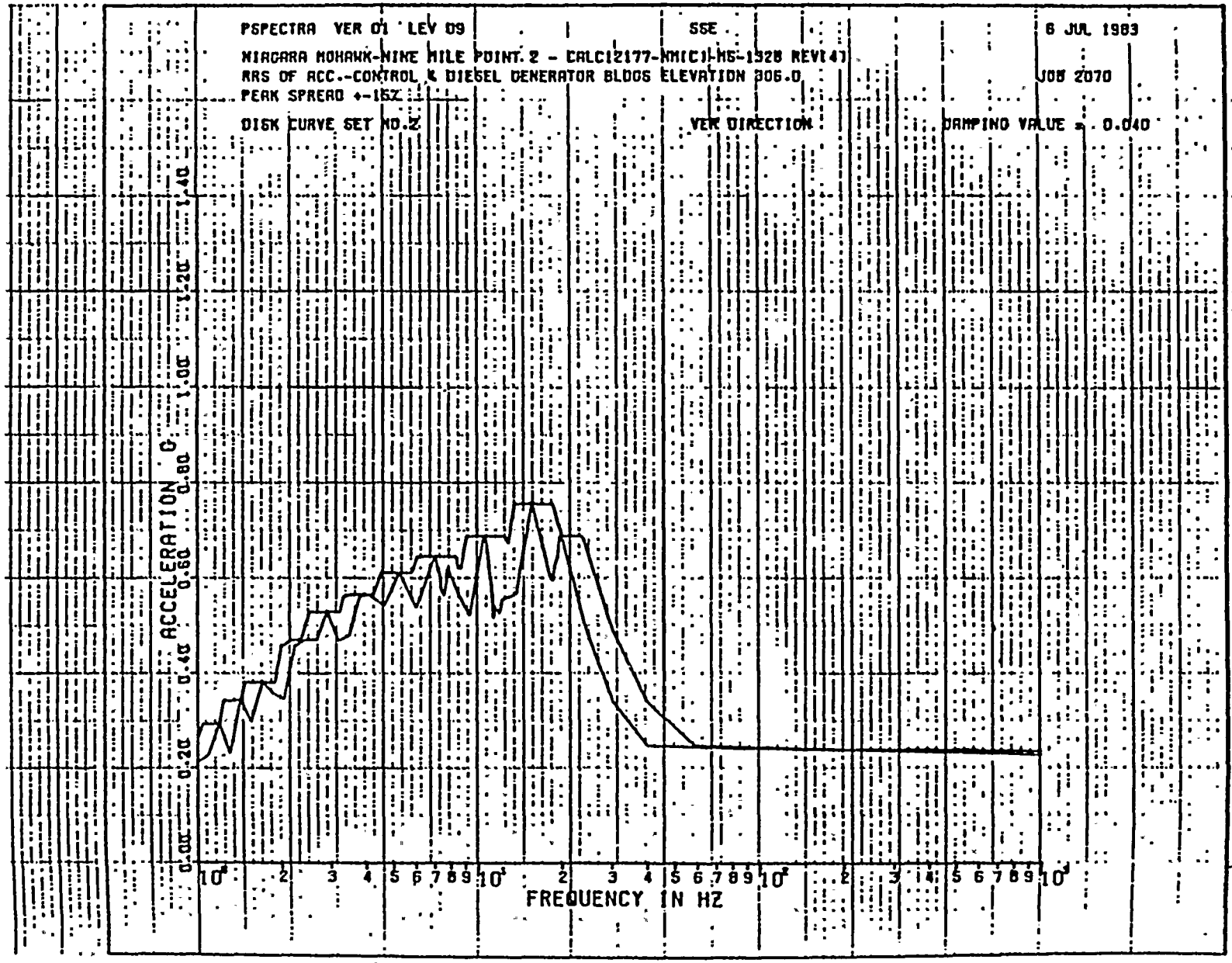

PSPECTRA VER 01 LEV 09
SSE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-NM(C)-MS-182B REV(4)
RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 306.0
JOB 2070
PEAK SPREAD +-15%
DISK CURVE SET NO.2
HOR DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
FREQUENCY IN HZ

REF 18


PSPECTRA VER 01 LEV 09
SSE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-NMIC1-MS-1528 REV(4)
RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 306.0
JOB 2070
PEAK SPREAD +-15%
DISK CURVE SET NO.2
VER DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
FREQUENCY IN HZ

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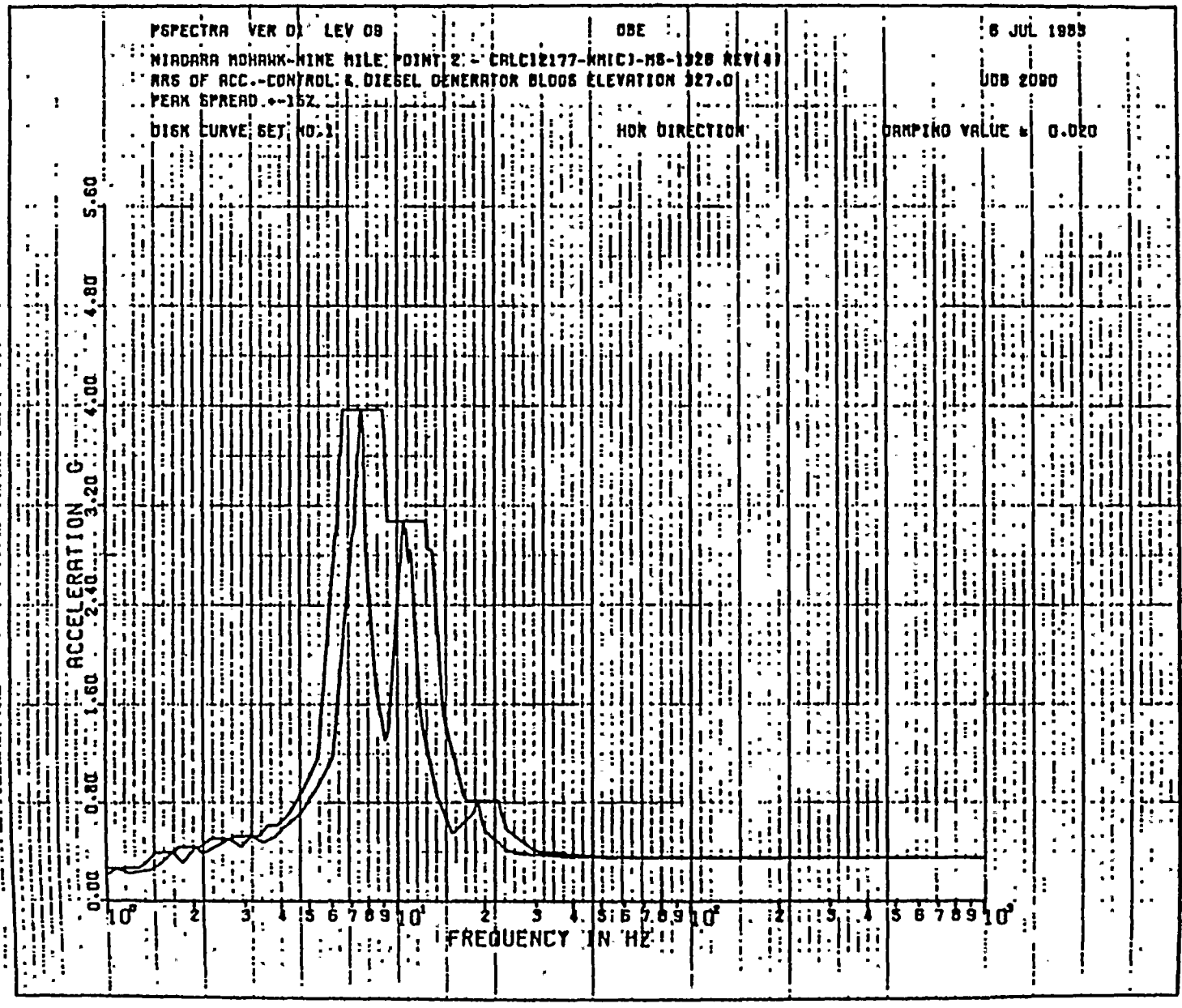
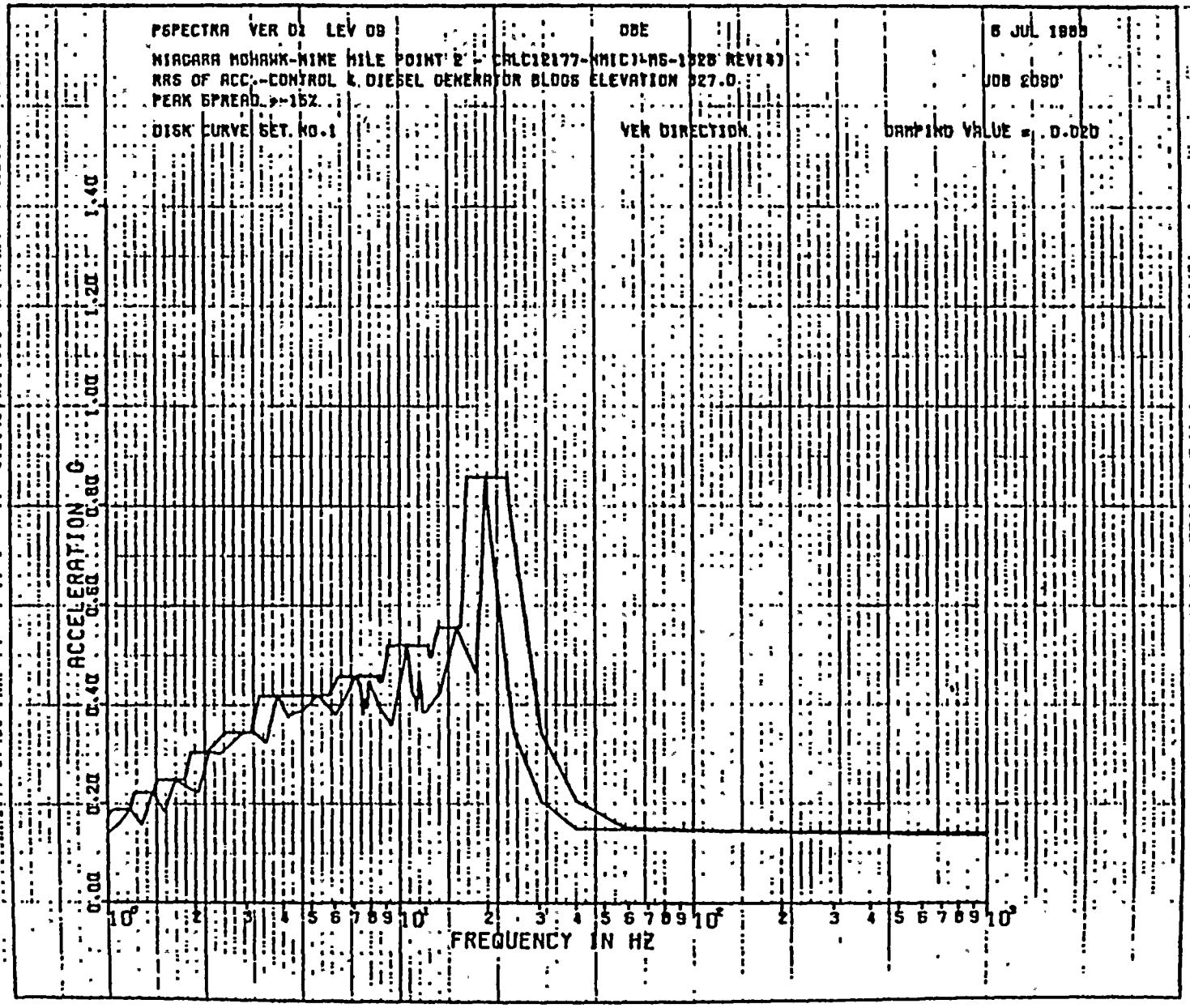

PSPECTRA VER 01 LEV 09
OBE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-MMIC)-MS-1328 REV(4)
ARS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 327.0
UDB 2090
PEAK SPREAD +-15%
DISK CURVE SET NO.1
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.80
1.60
2.40
3.20
4.00
4.80
5.60
FREQUENCY IN HZ

REF 19


PSPECTRA VER 01 LEV 09
ODE
6 JUL 1989
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-NMIC)1-MS-1328 REV(4)
RMS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 327.0
JOB 2090
PEAK SPREAD >-15%
DISK CURVE SET NO.1
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
FREQUENCY IN HZ

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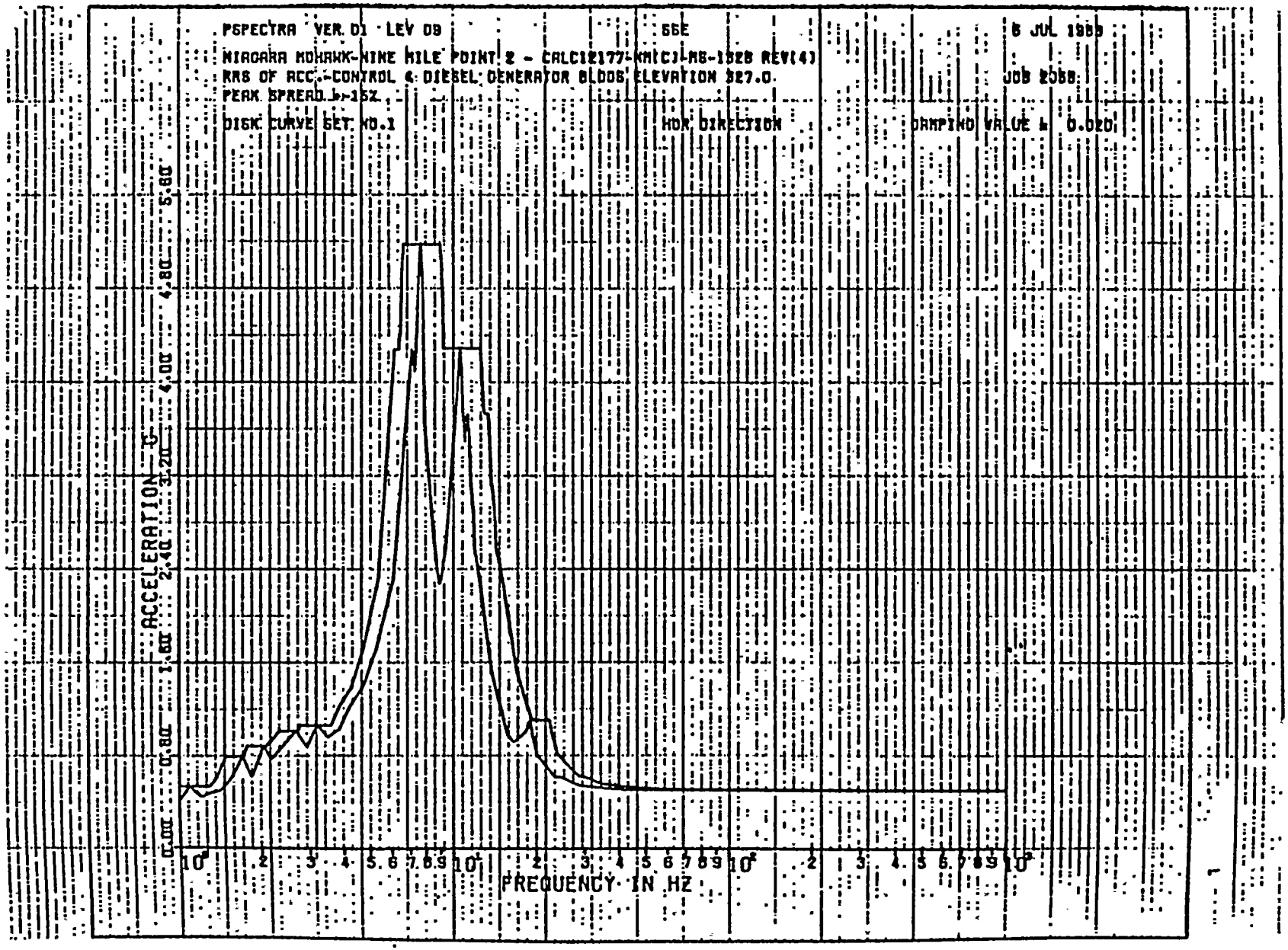
PSPECTRA VER.01 LEV 09
SSE
6 JUL 1989
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-MM(C)-MS-1328 REV(4)
RMS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 327.0.
JOB 2088
PEAK SPREAD 6-15%
DISK CURVE SET NO.1
HOR DIRECTION
DAMPING VALUE = 0.020
ACCELERATION - G
0.00
0.80
1.60
2.40
3.20
4.00
4.80
5.60
FREQUENCY IN HZ

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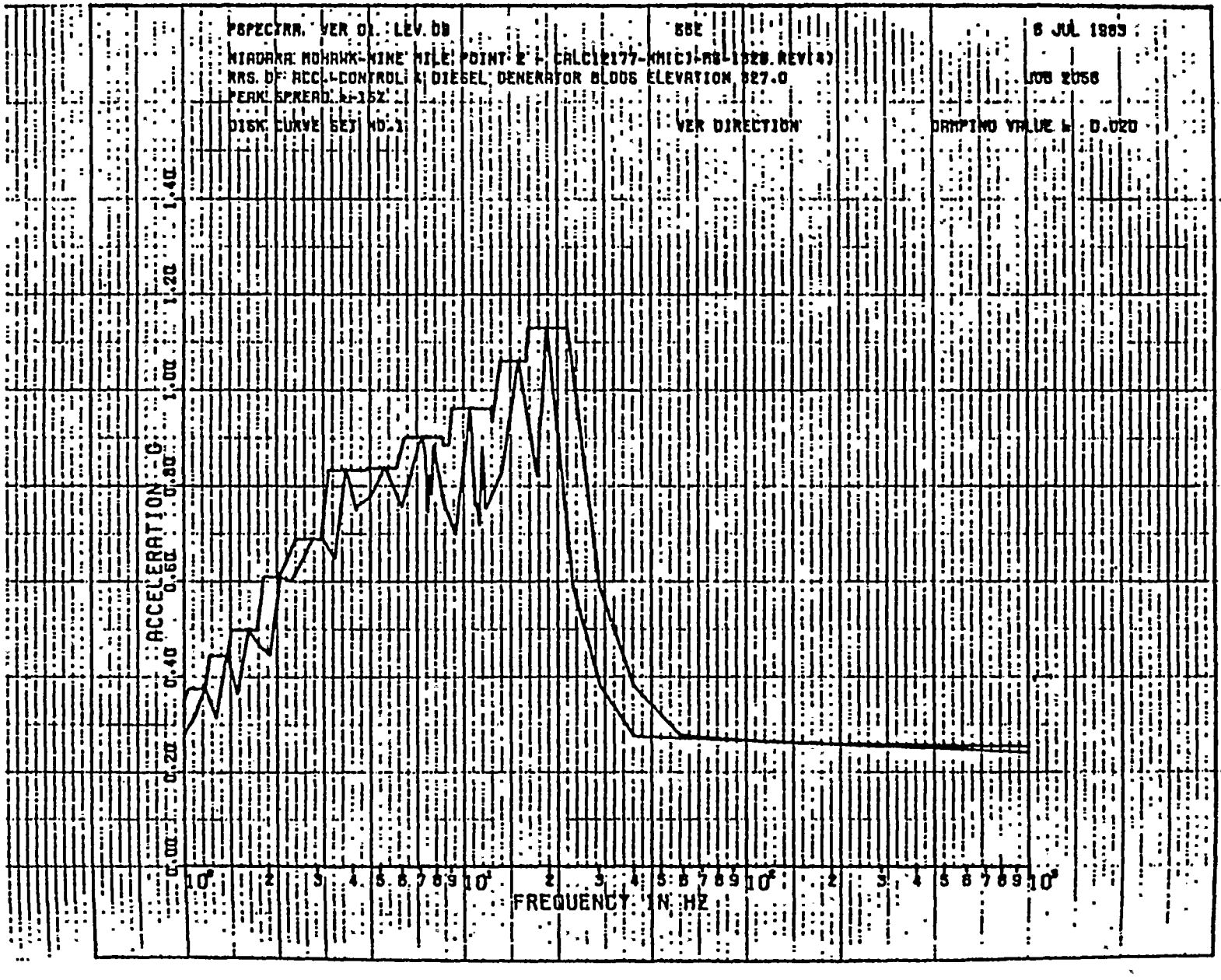
PSPECTRA. VER 01. LEV. 08
SSE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC(2177-NMIC)-RS-1328.REV(4)
RRS. OF ACCL-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 327.0
JOB 2056
PEAK SPREAD: 4-15%
DISK CURVE SET NO.1
VER DIRECTION
DAMPING VALUE = 0.020
ACCELERATION G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
FREQUENCY IN HZ

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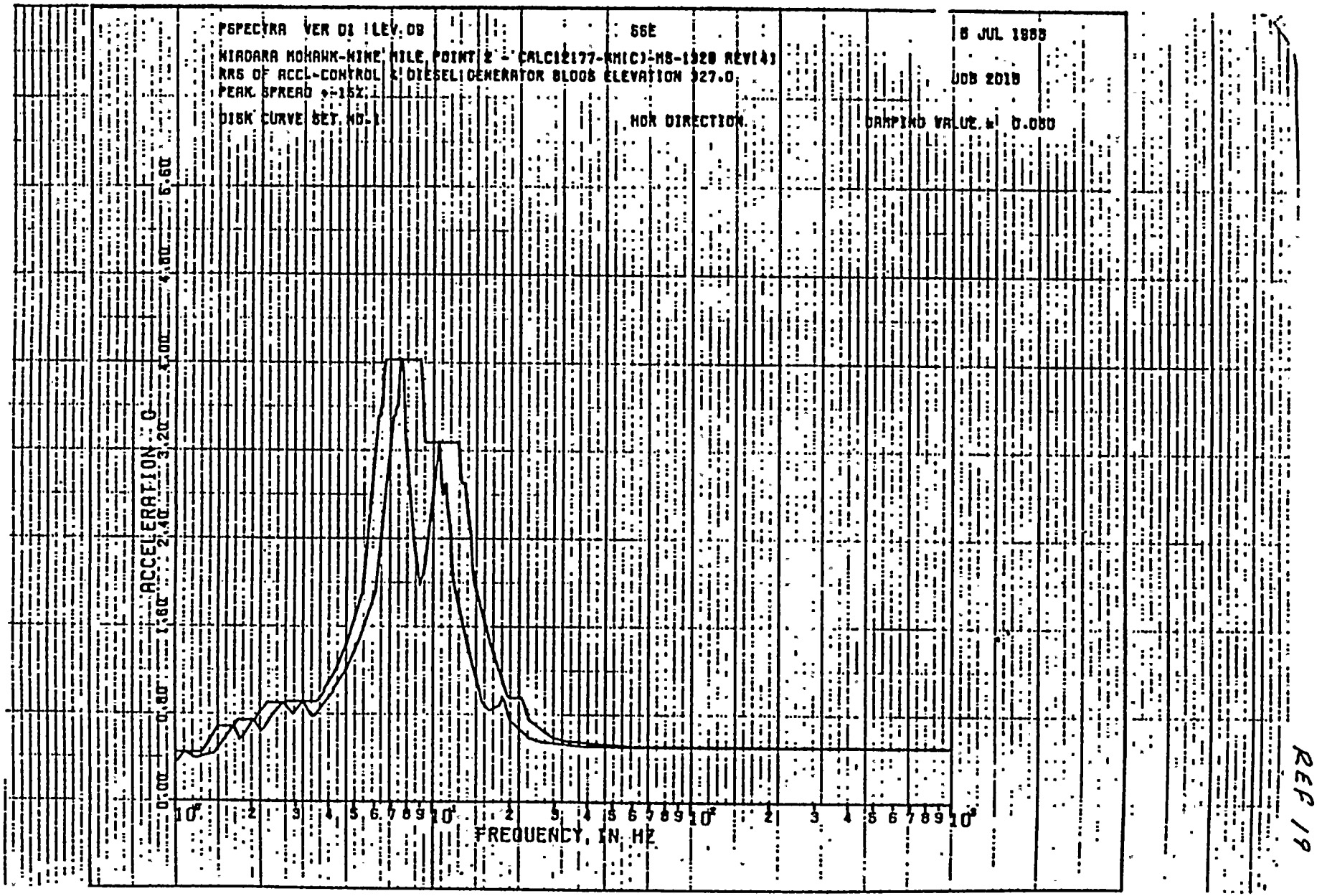
PSPECTRA VER 01 !LEV.09
SSE
6 JUL 1988
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-RM(C)-MS-1928 REV(4)
RRS OF ACCL-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 327.0
DOB 2018
PEAK SPREAD +-15%
DISK CURVE SET NO.1
HOR DIRECTION
DAMPING VALUE = 0.050
ACCELERATION - G
0.00
0.80
1.60
2.40
3.20
4.00
4.80
5.60
FREQUENCY, IN HZ

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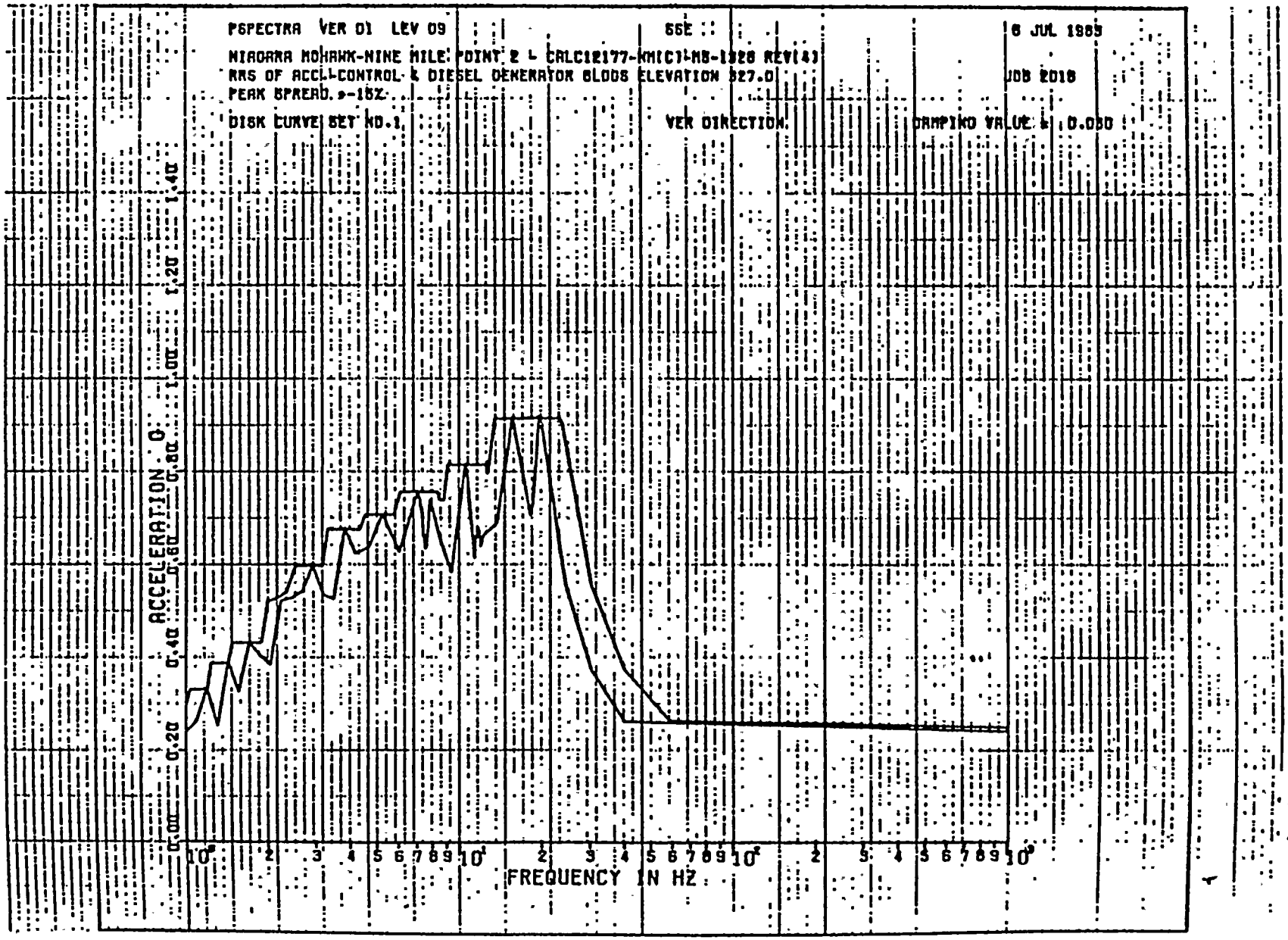
PSPECTRA VER 01 LEV 09
SSE
6 JUL 1989
NIAGARA MOHAWK-NINE MILE POINT 2 L CALC12177-MHIC1-MS-1328 REV(4)
RMS OF ACCL-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 327.0
JOB 2018
PEAK SPREAD.=-15%
DISK CURVE SET NO.1
VER DIRECTION
DAMPING VALUE = 0.050
ACCELERATION . G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
FREQUENCY IN HZ
10
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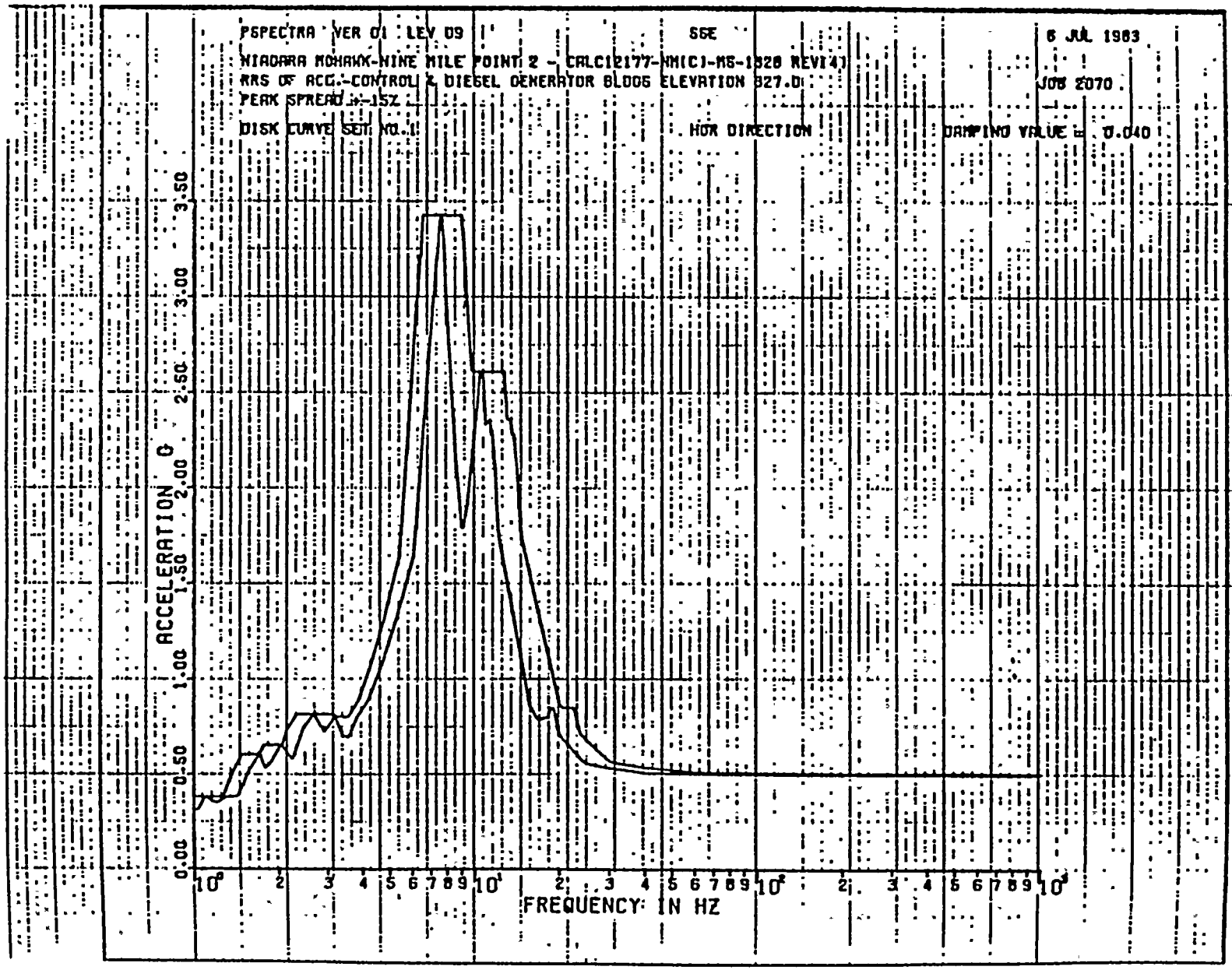
PSPECTRA VER 01 LEV 09
SSE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-MM(C)-MS-1328 REV(4)
RMS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 327.0
JOB 2070
PEAK SPREAD +-15%
DISK CURVE SET NO. 1
HOR DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
FREQUENCY IN HZ

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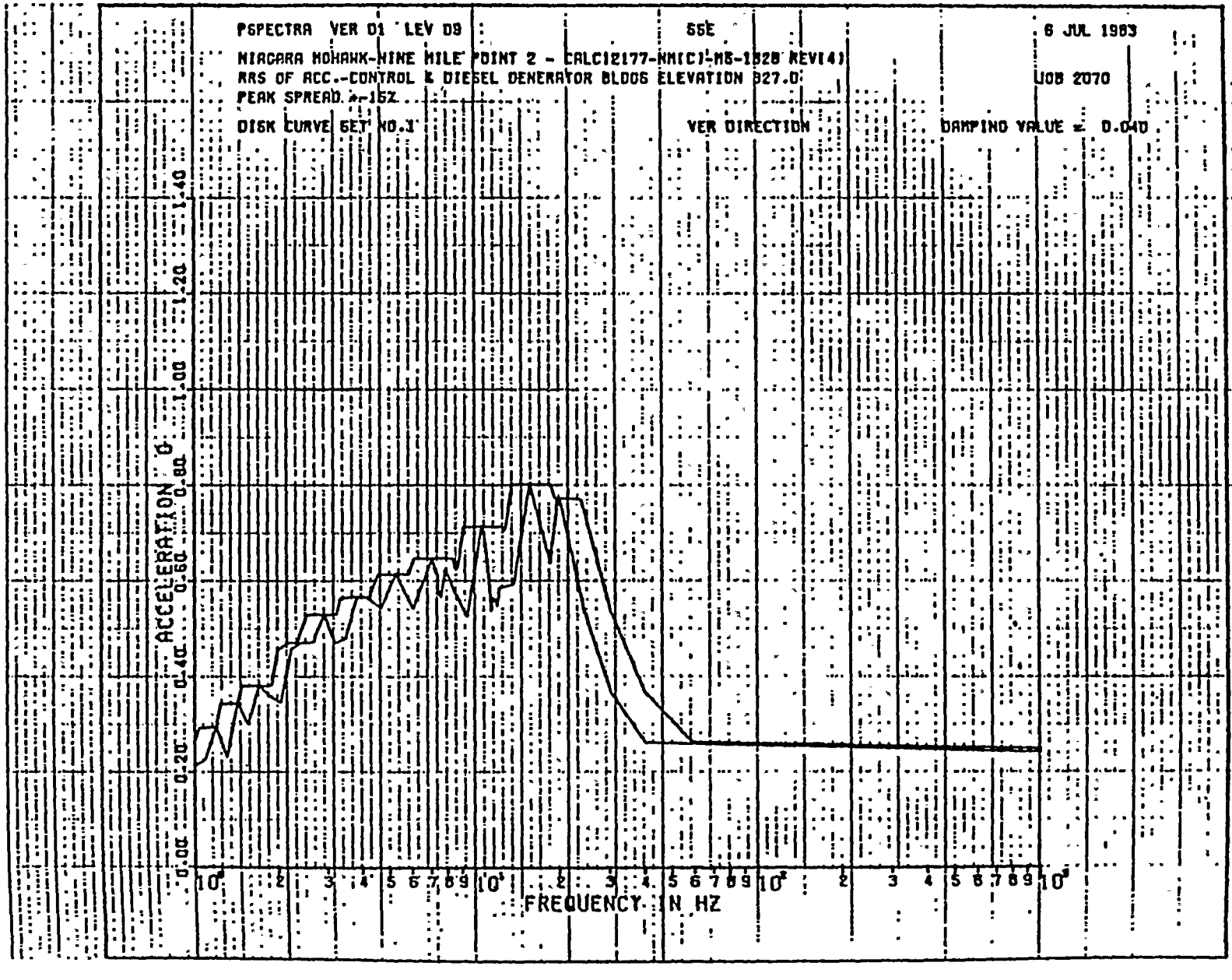
PSPECTRA VER 01 LEV 09
SSE
6 JUL 1983
NIAGARA MOHAWK-NINE MILE POINT 2 - CALC12177-NMIC)-MS-1528 REV(4)
RRS OF ACC.-CONTROL & DIESEL GENERATOR BLDGS ELEVATION 327.0
JOB 2070
PEAK SPREAD = 15%
DISK CURVE SET NO.1
VER DIRECTION
DAMPING VALUE = 0.040
ACCELERATION G
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
FREQUENCY IN HZ

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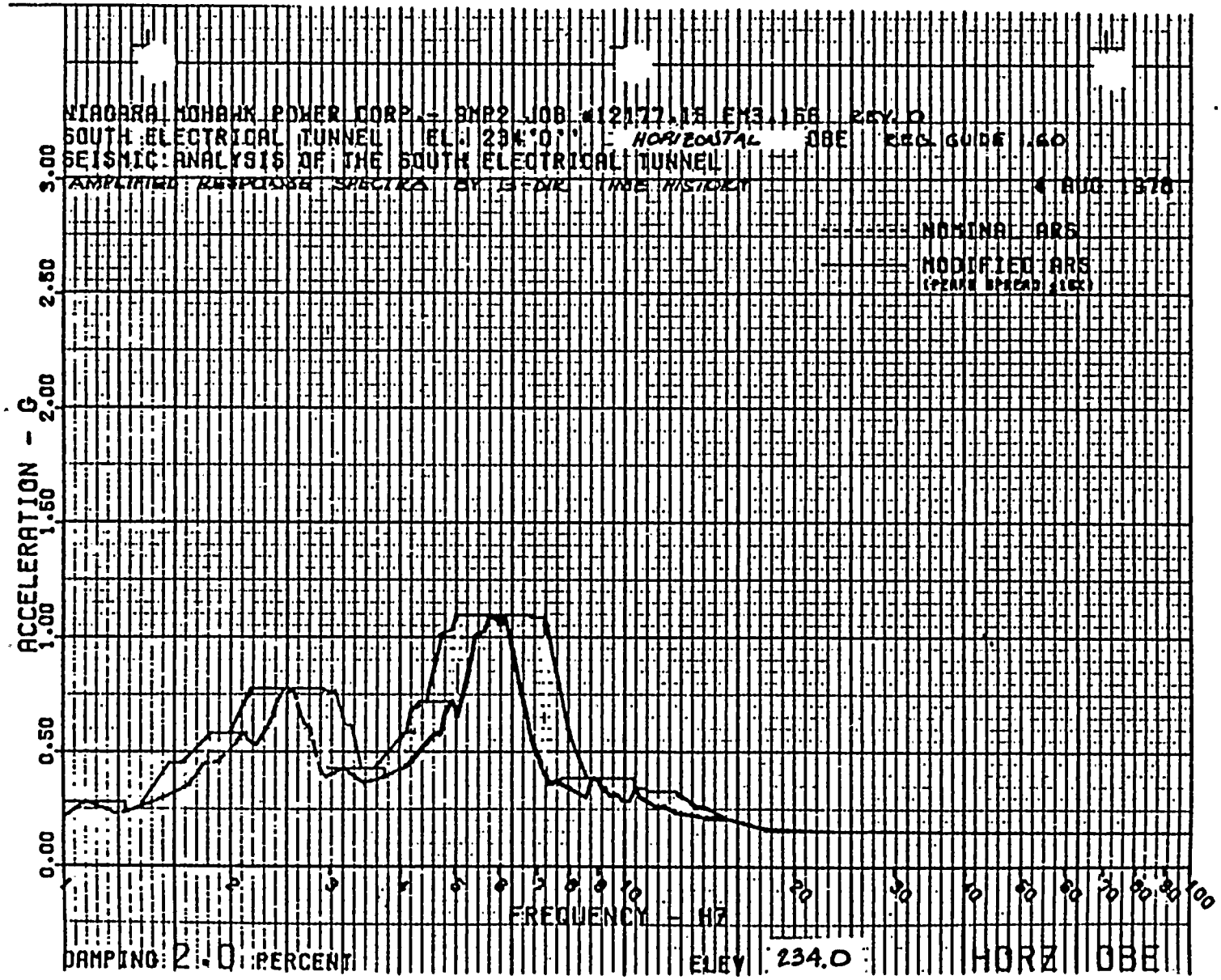
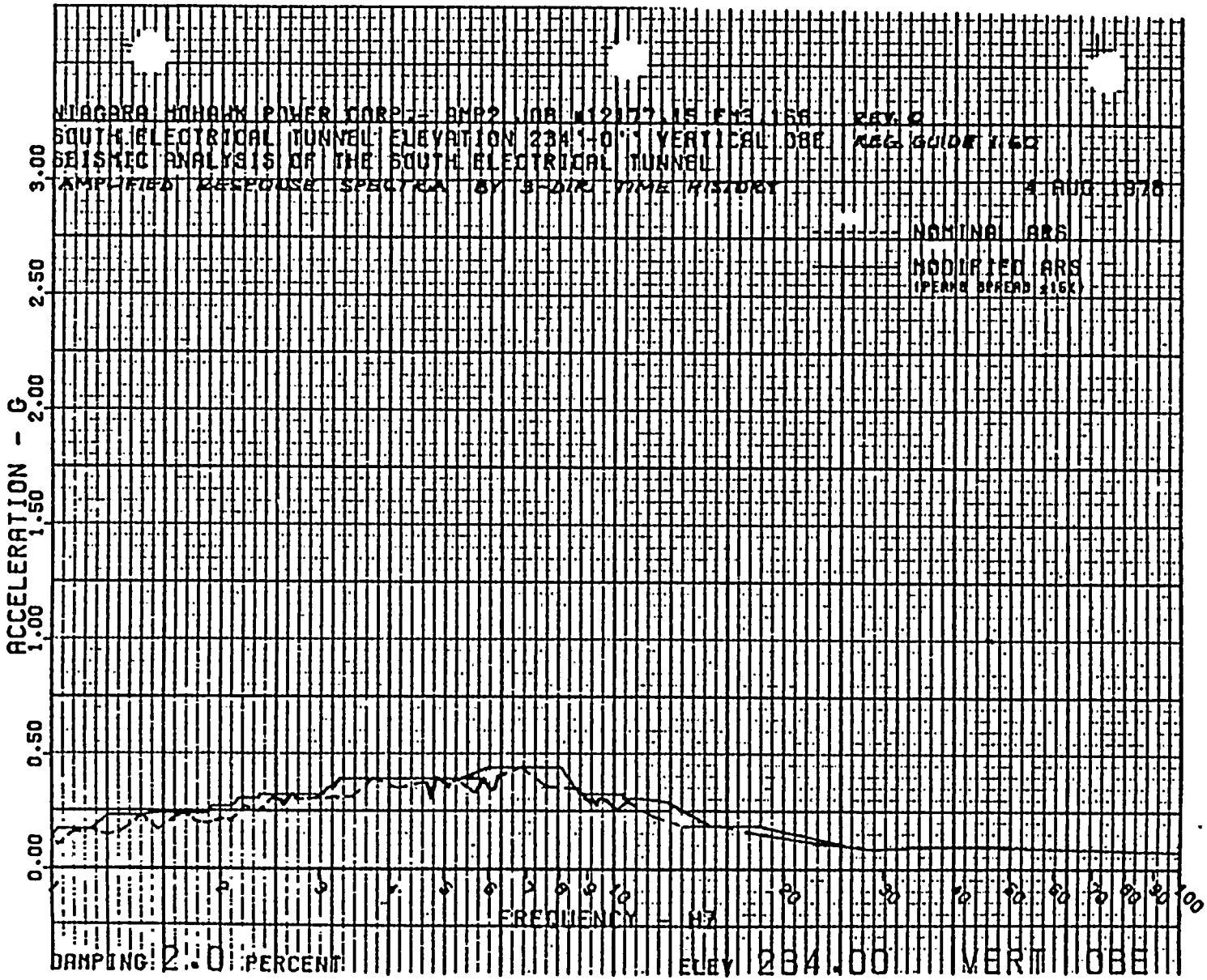
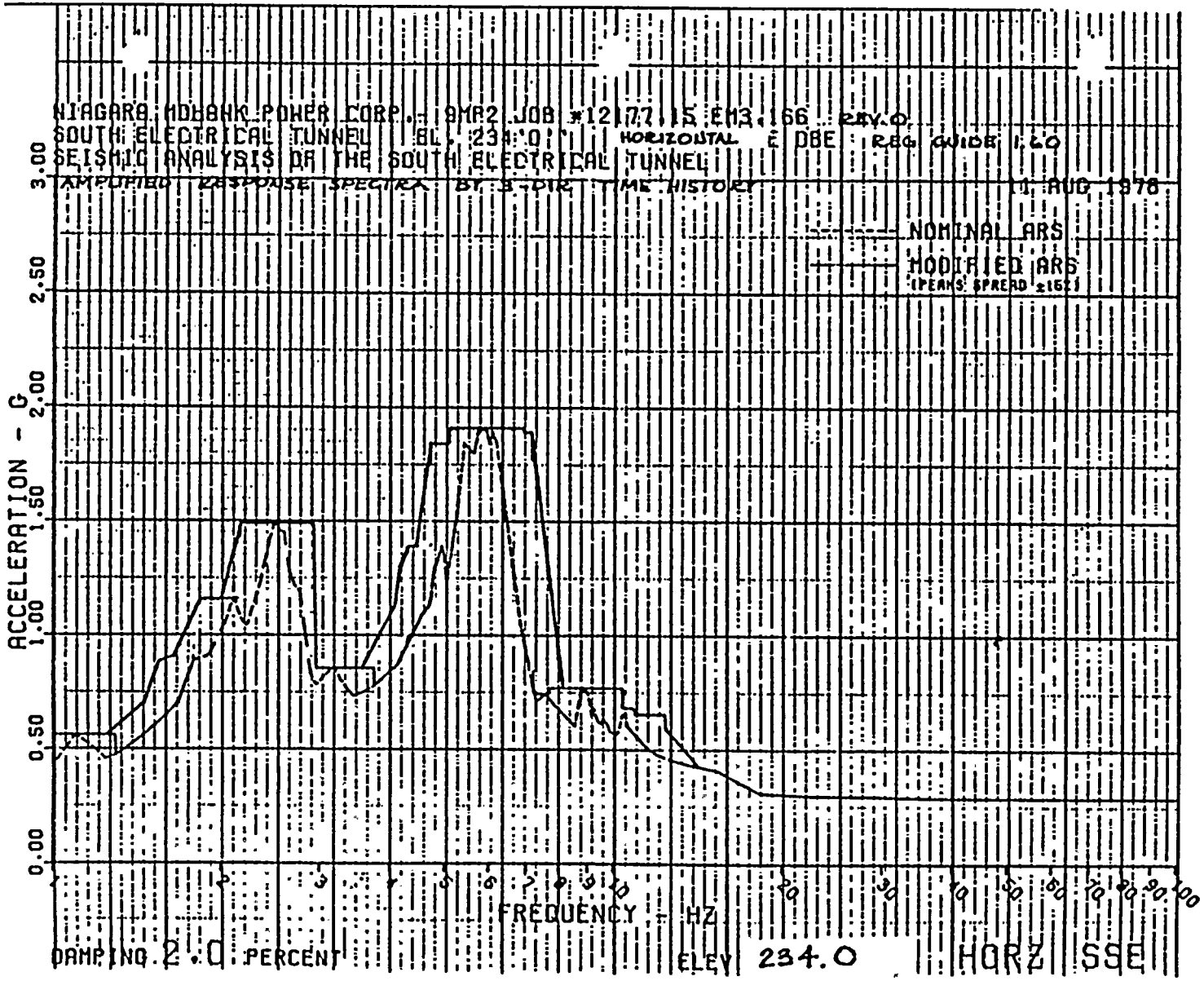


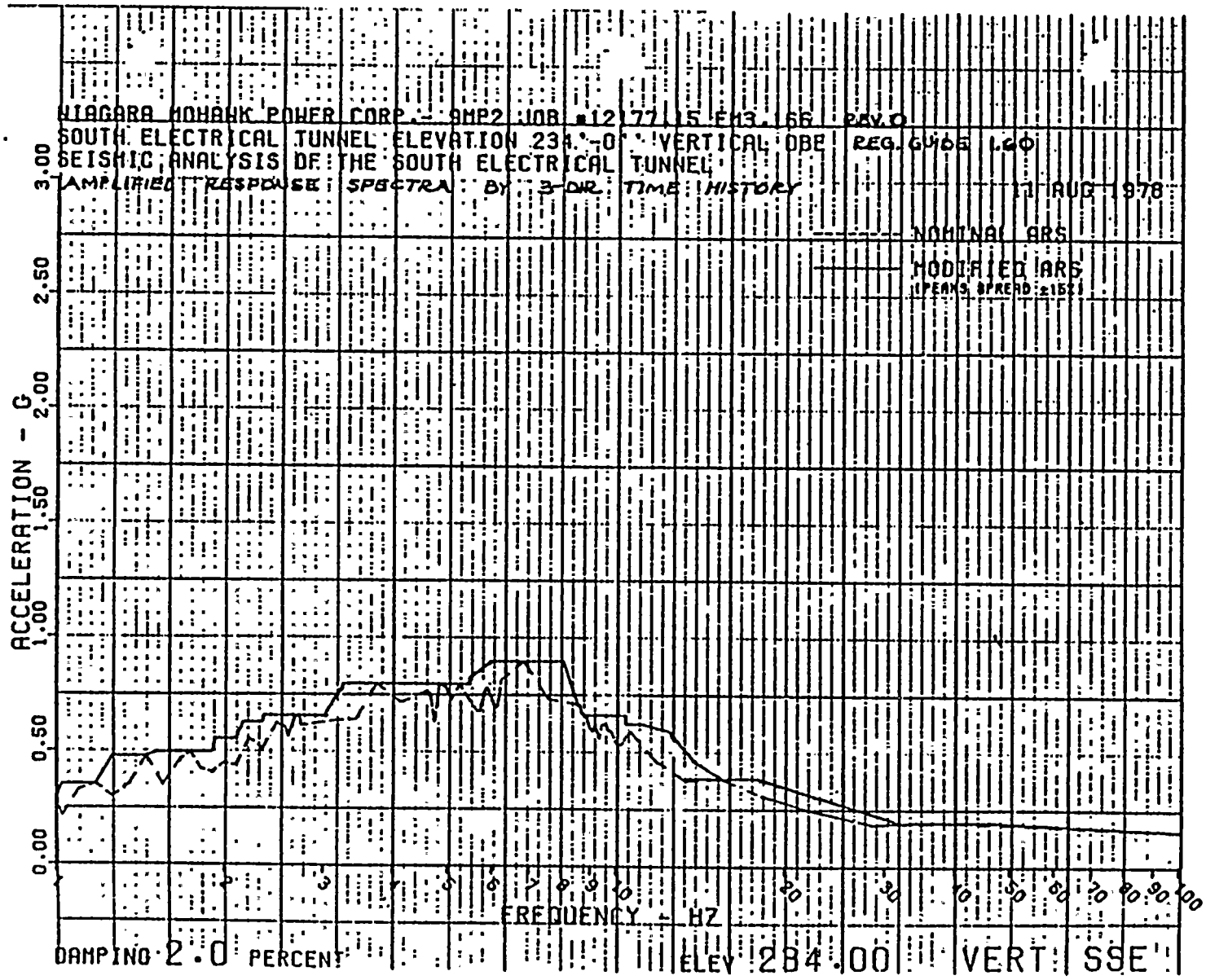
MS-1.3.9.8 REV.0 REF 20
12177
121



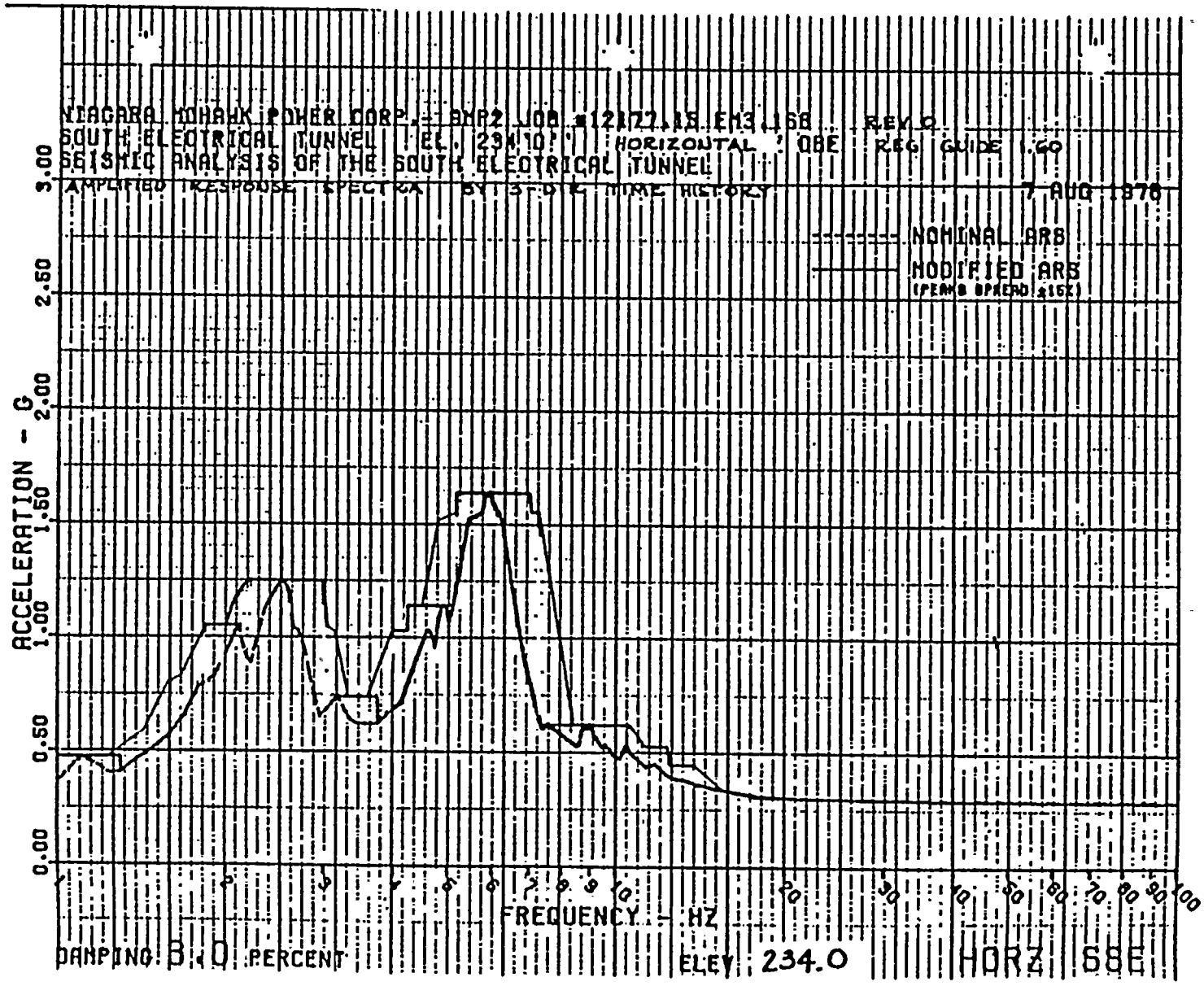
MS-1328 REV 0 REF 20
12177
122



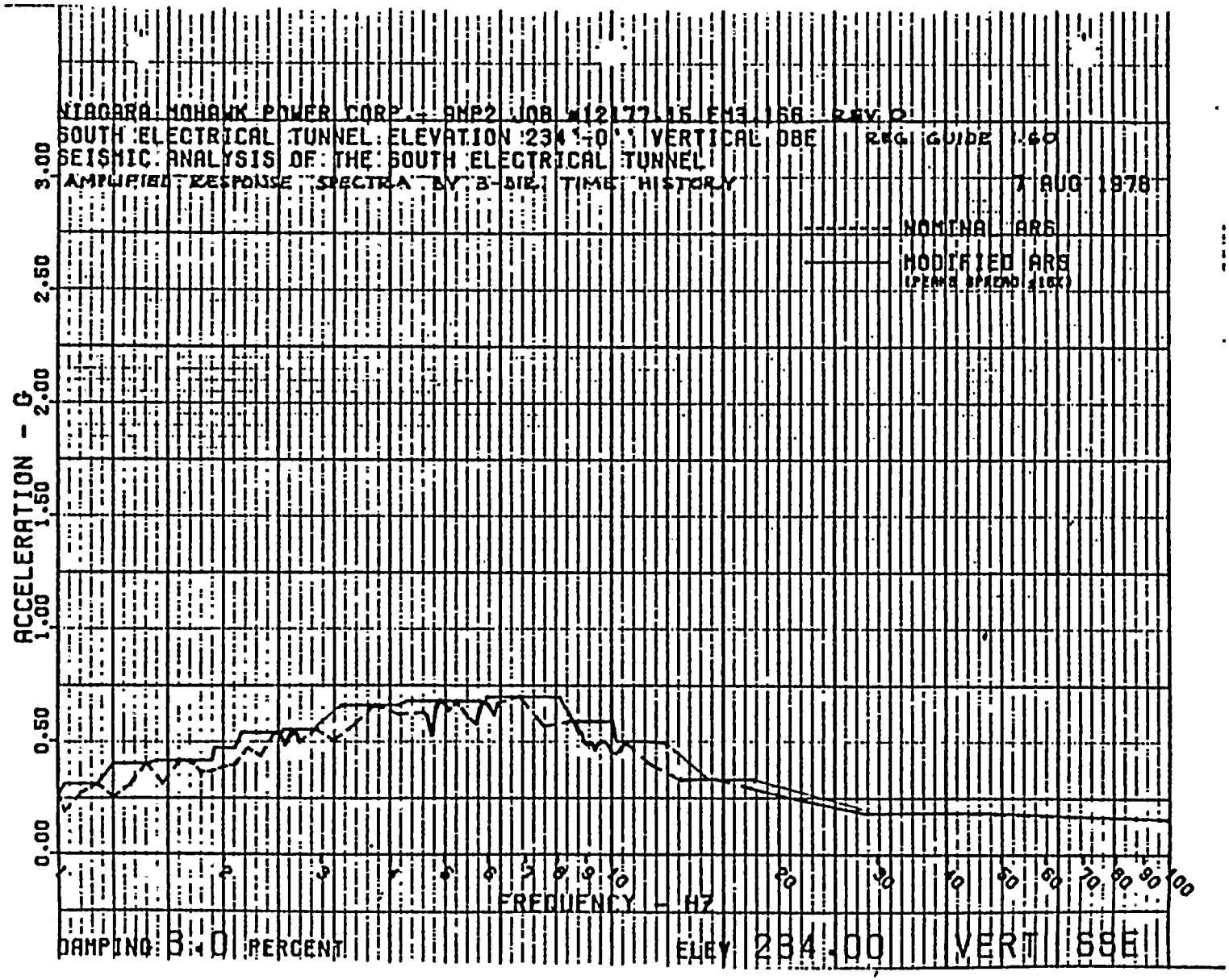
MS-1399 REV 0 REF 20
12177
117
REV. 4



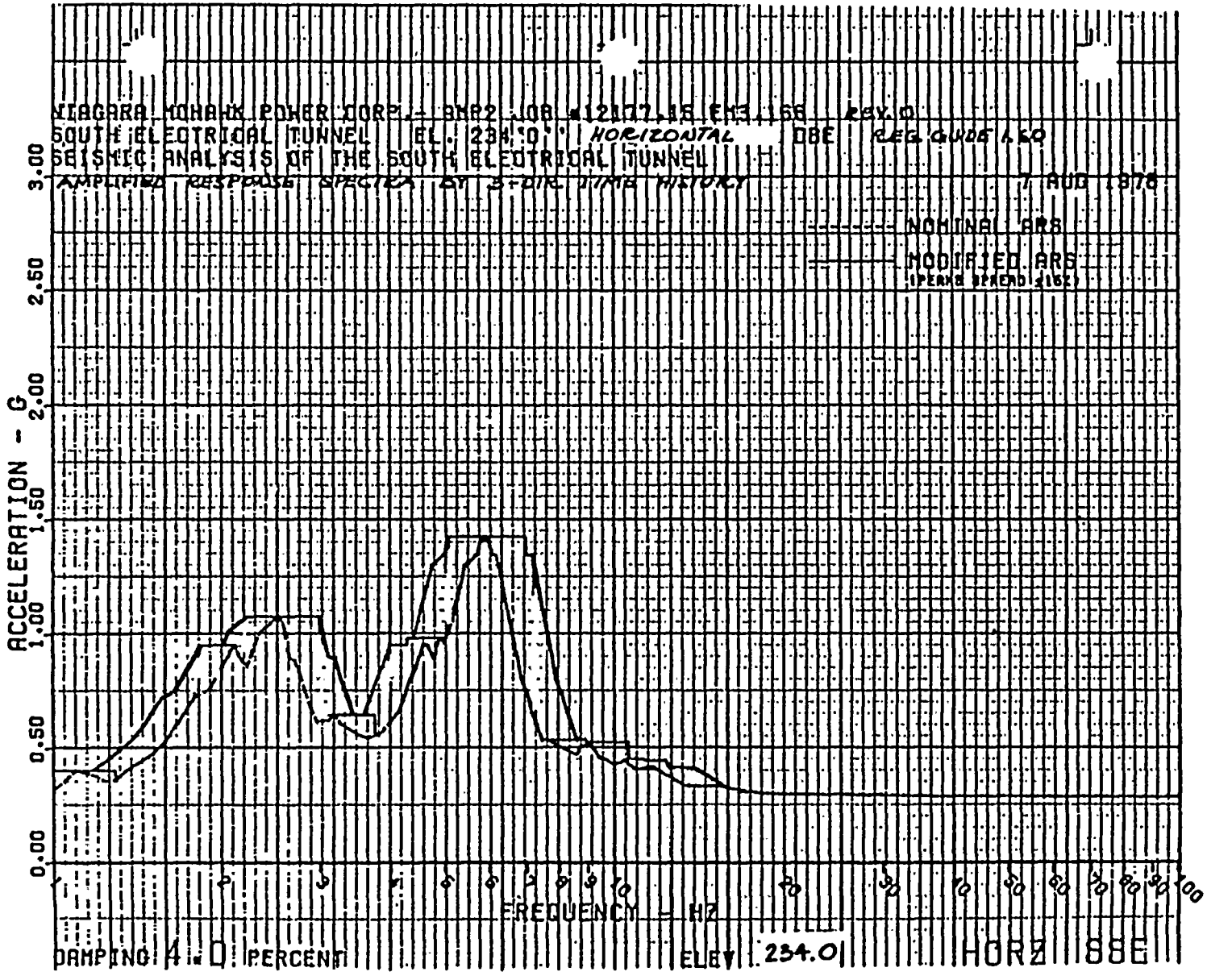
MS-13328 REV 0 REF 20
12177
118
Rev. 4



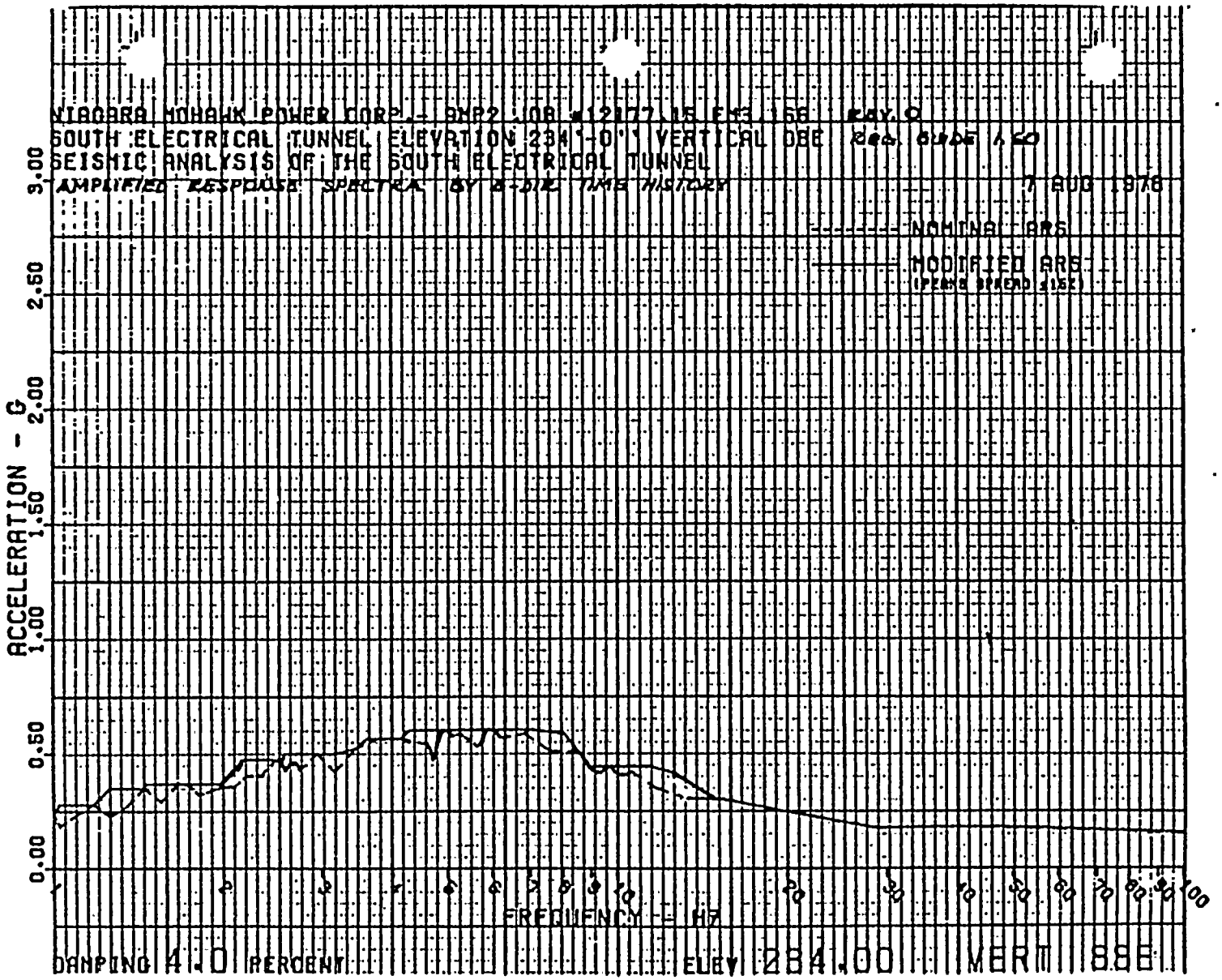
MS 1328 REV 0 REF 20
12177
119
REV. 4



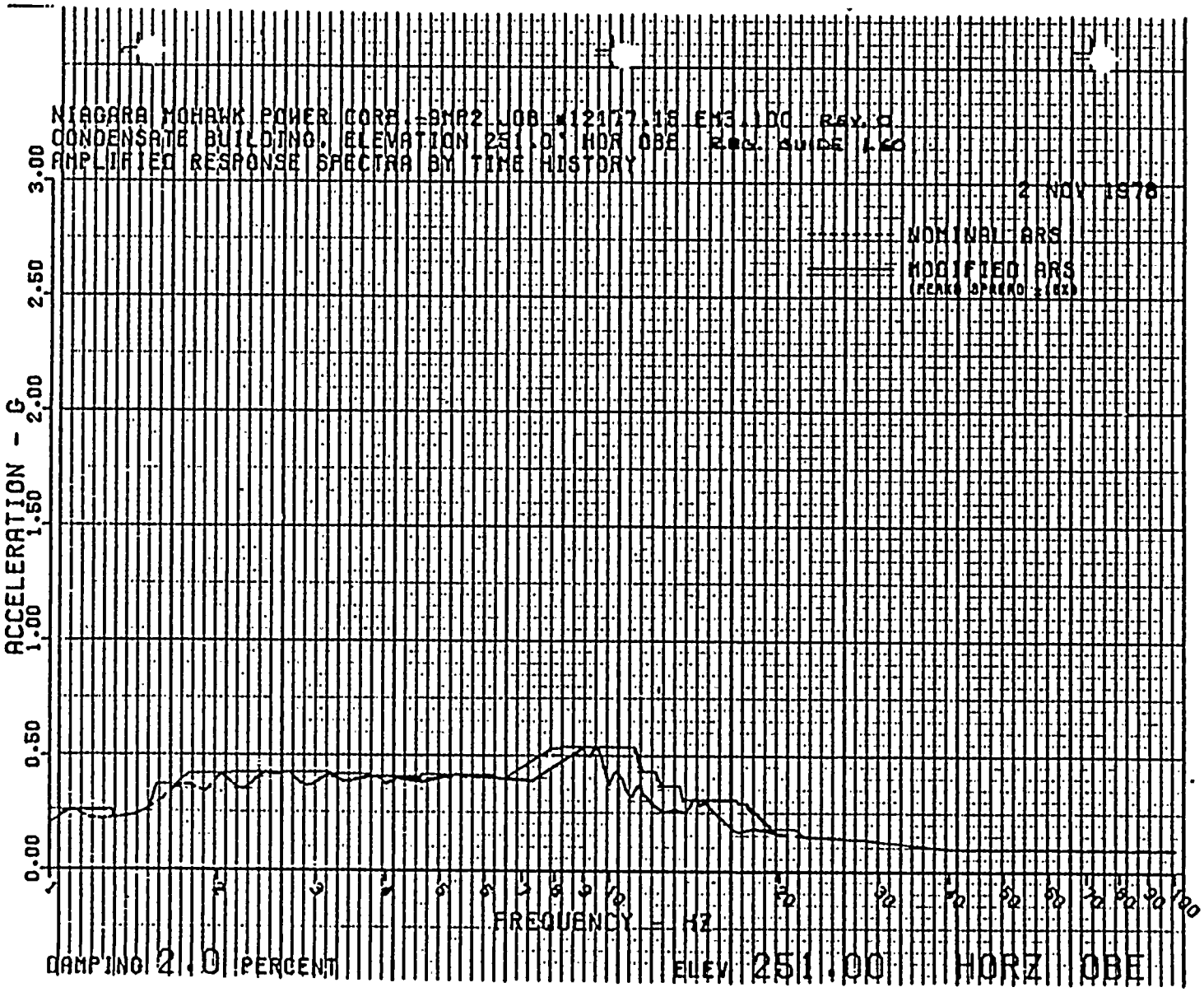
MS 1328 REV 0 REF 20
12177
120
REV 4



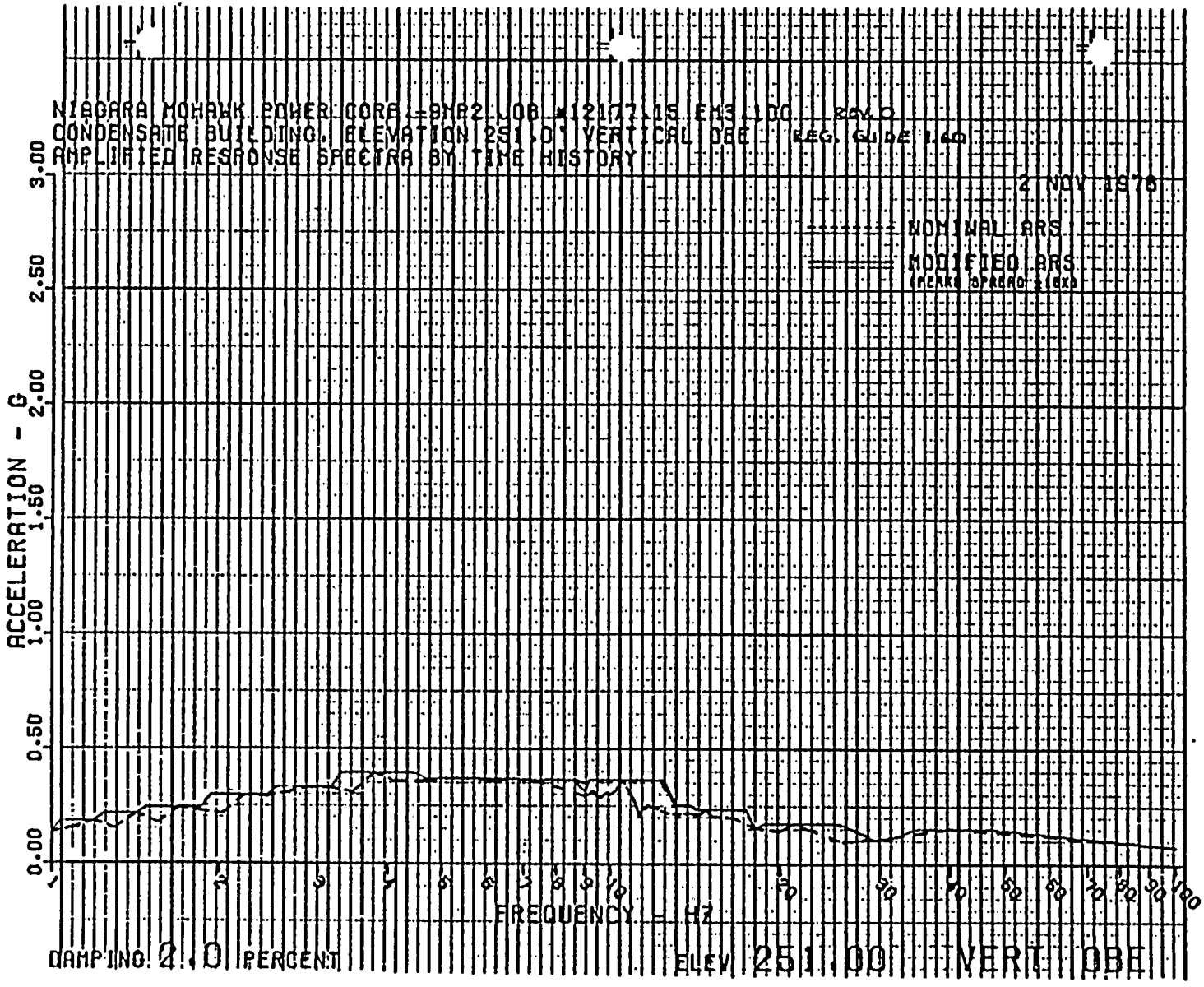
MS-1328 REV 0 REF 20
12177
123
REV.



MS-1328 REV 0 REF 20
12177
124
REV. 4



MS-1374 REV 0 REF 21
12/77



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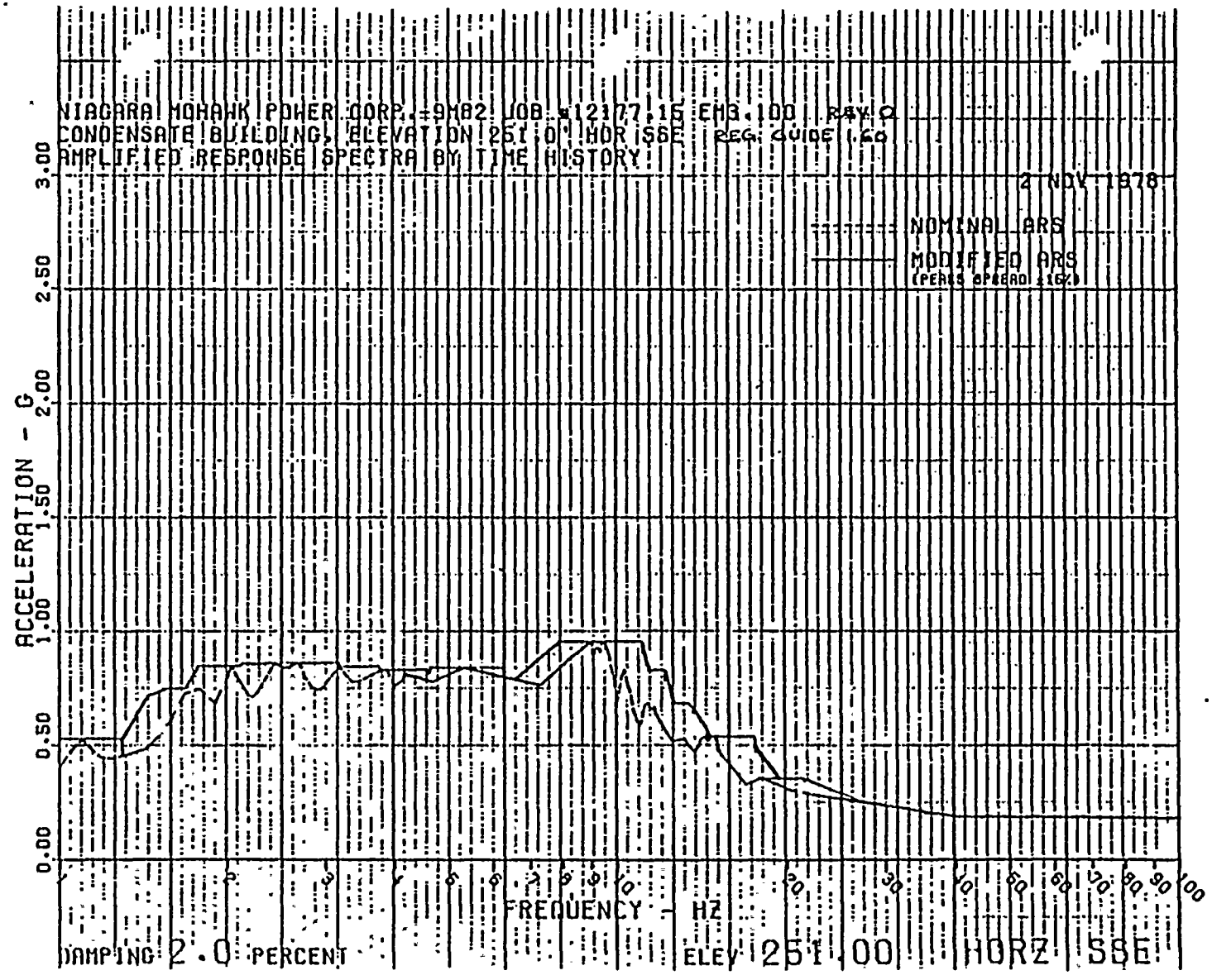
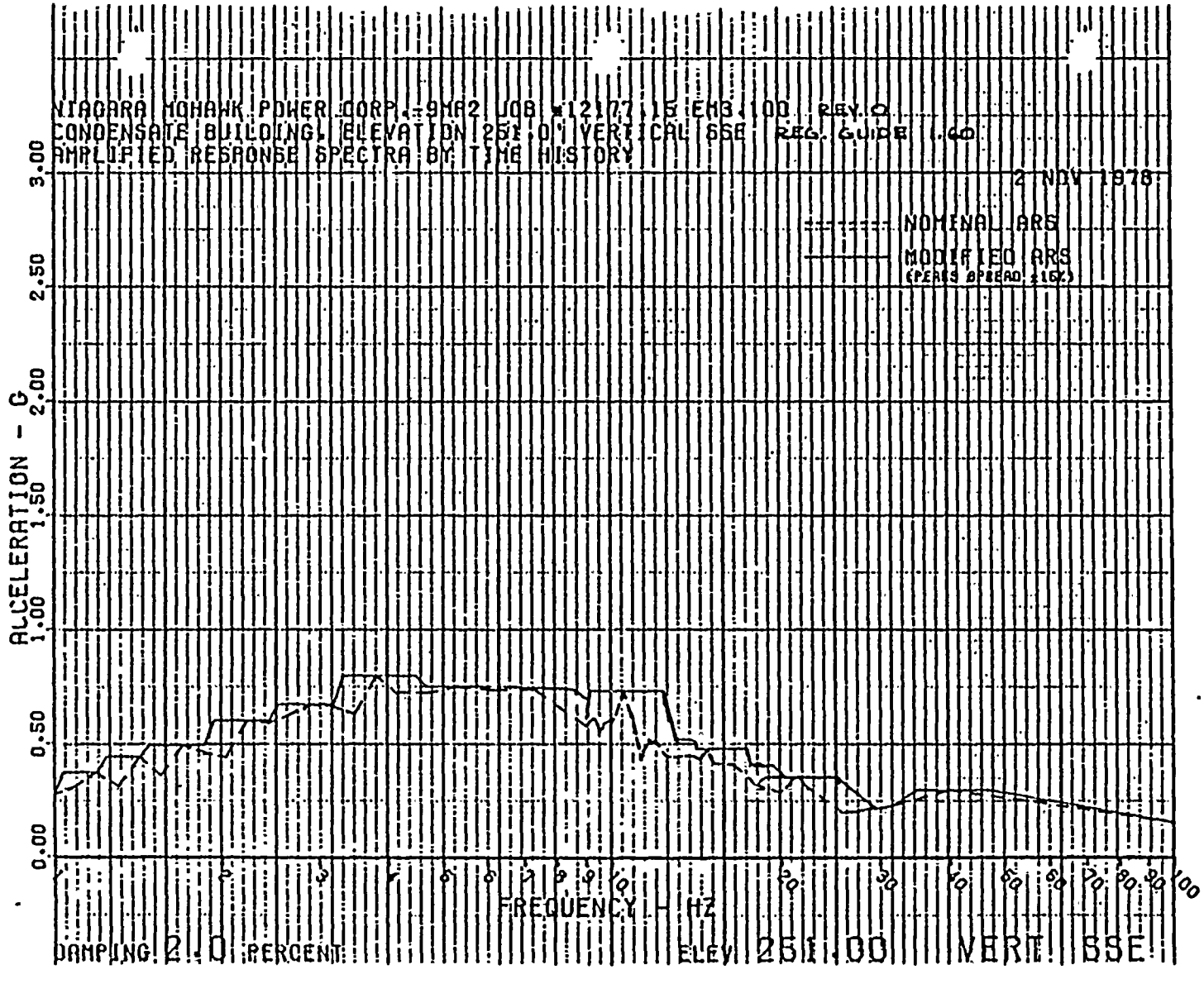
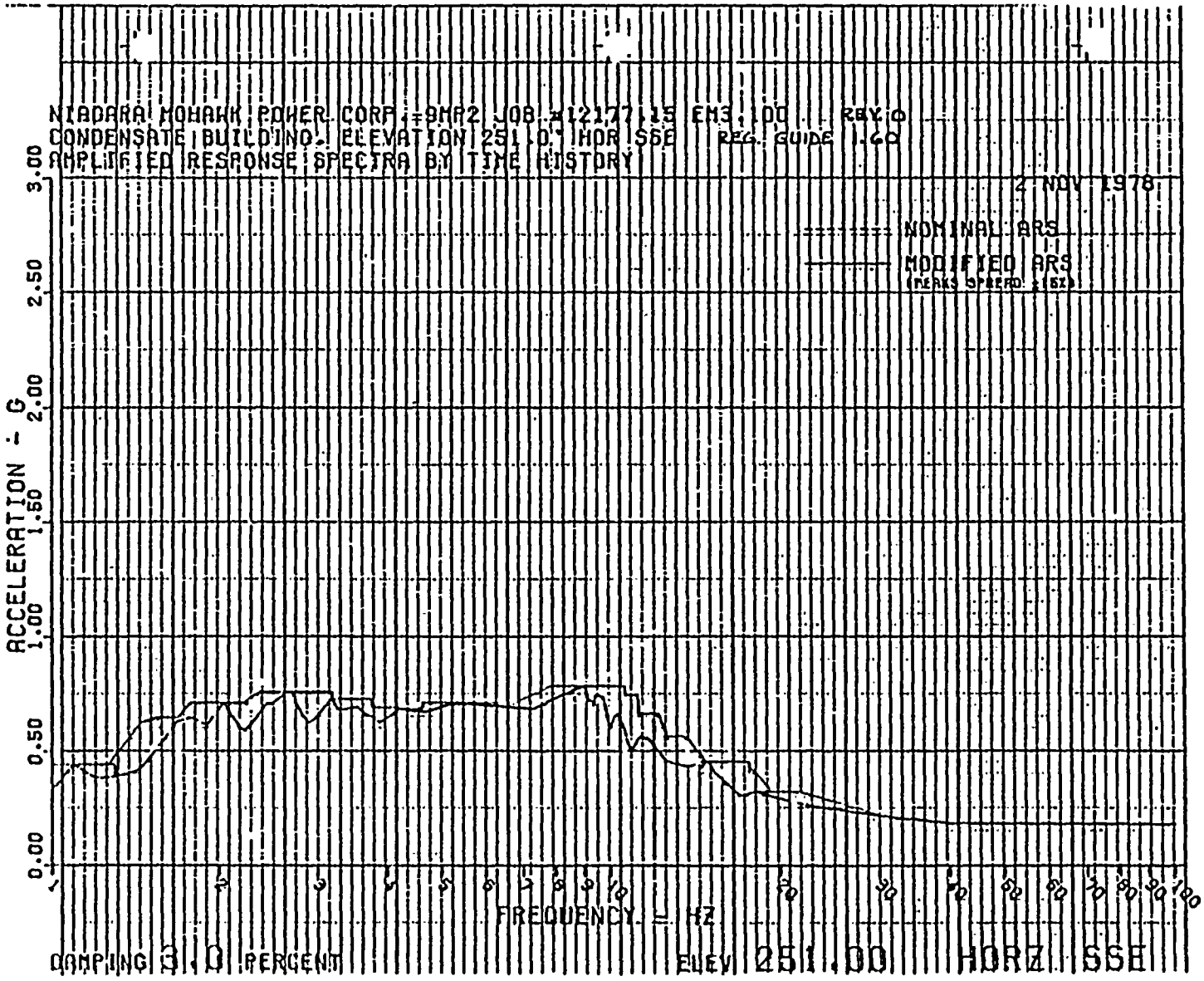


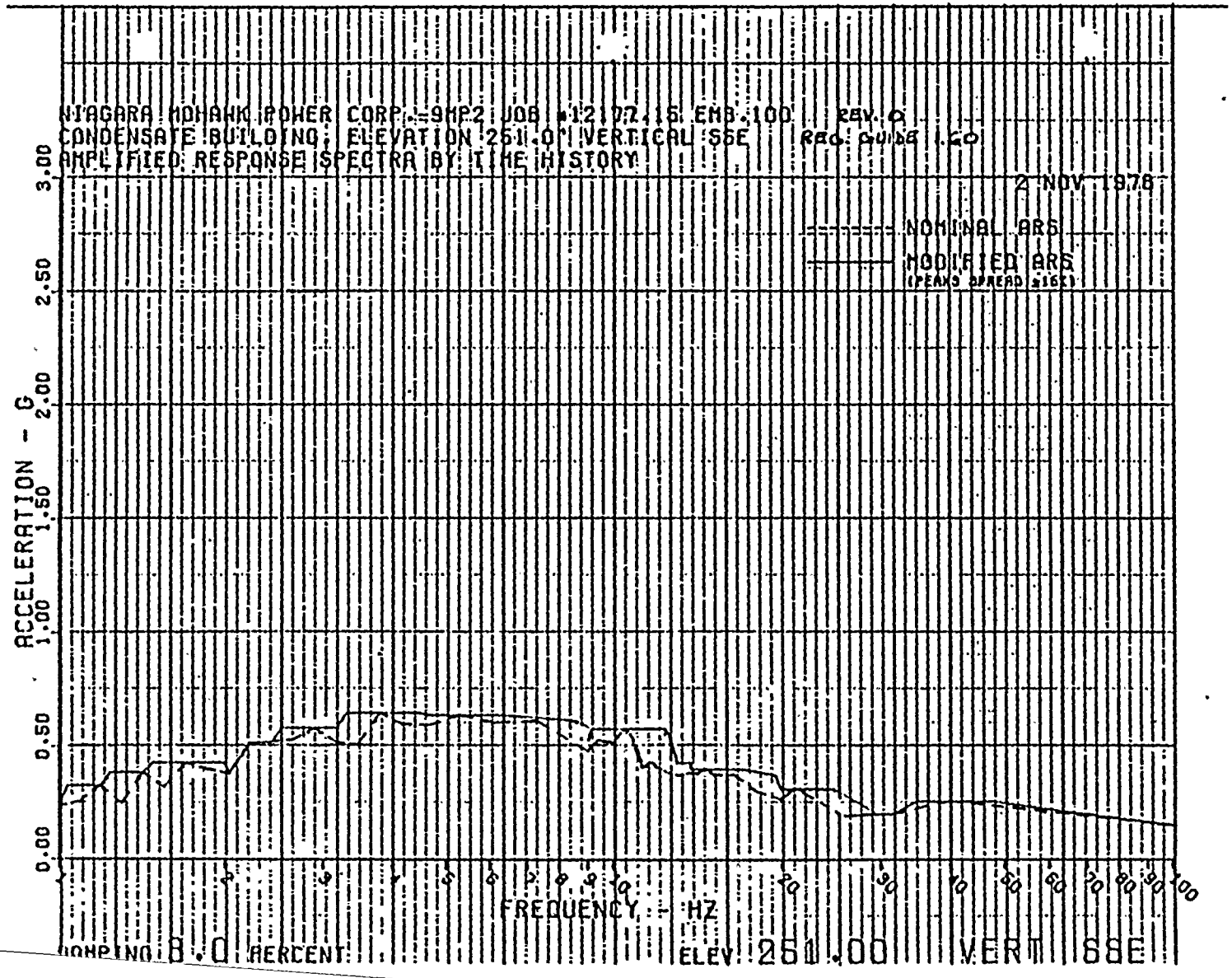
MS-1374 REV 0 REF 21
12/77



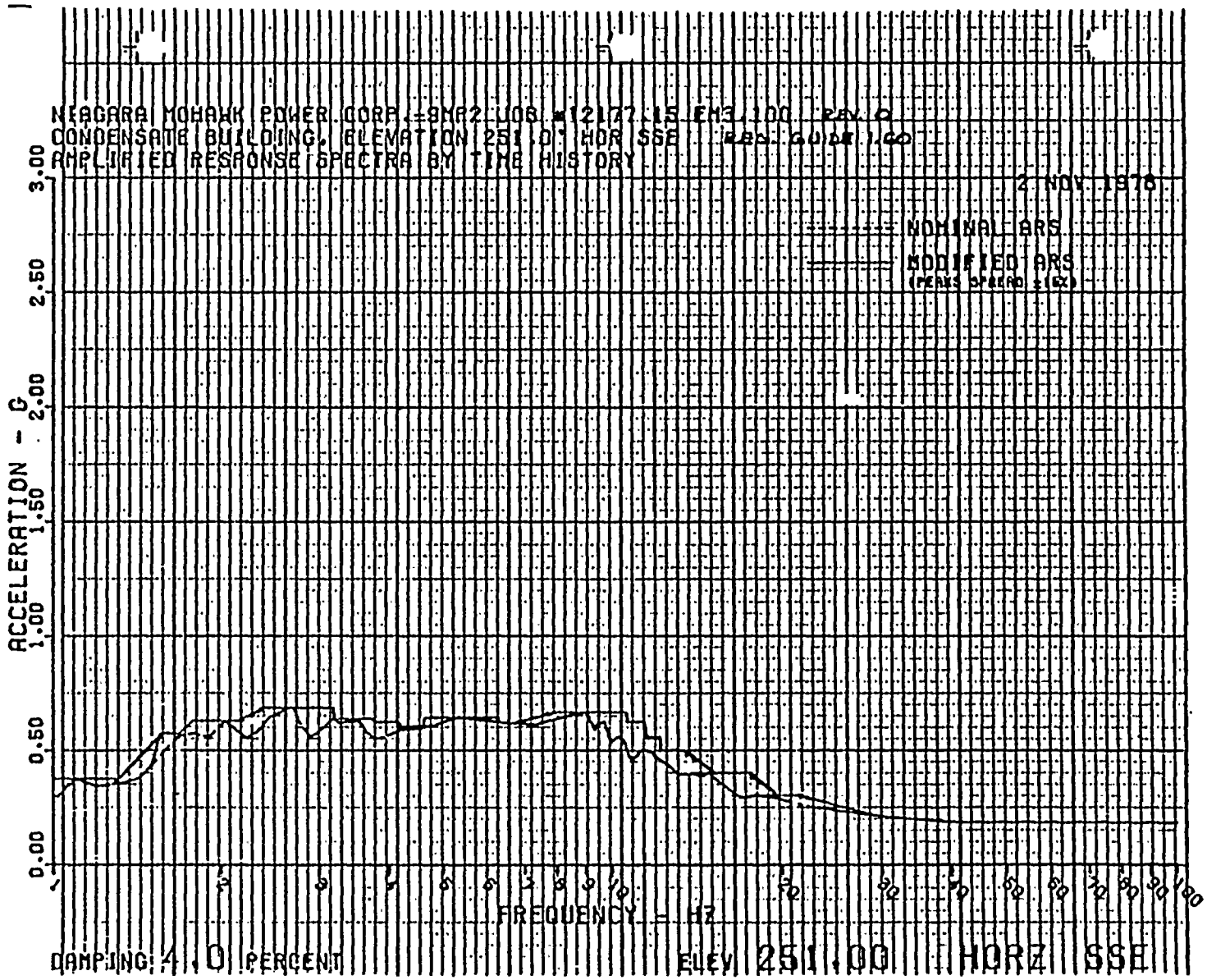
MS-1374 REV 0 REF 21
12/77



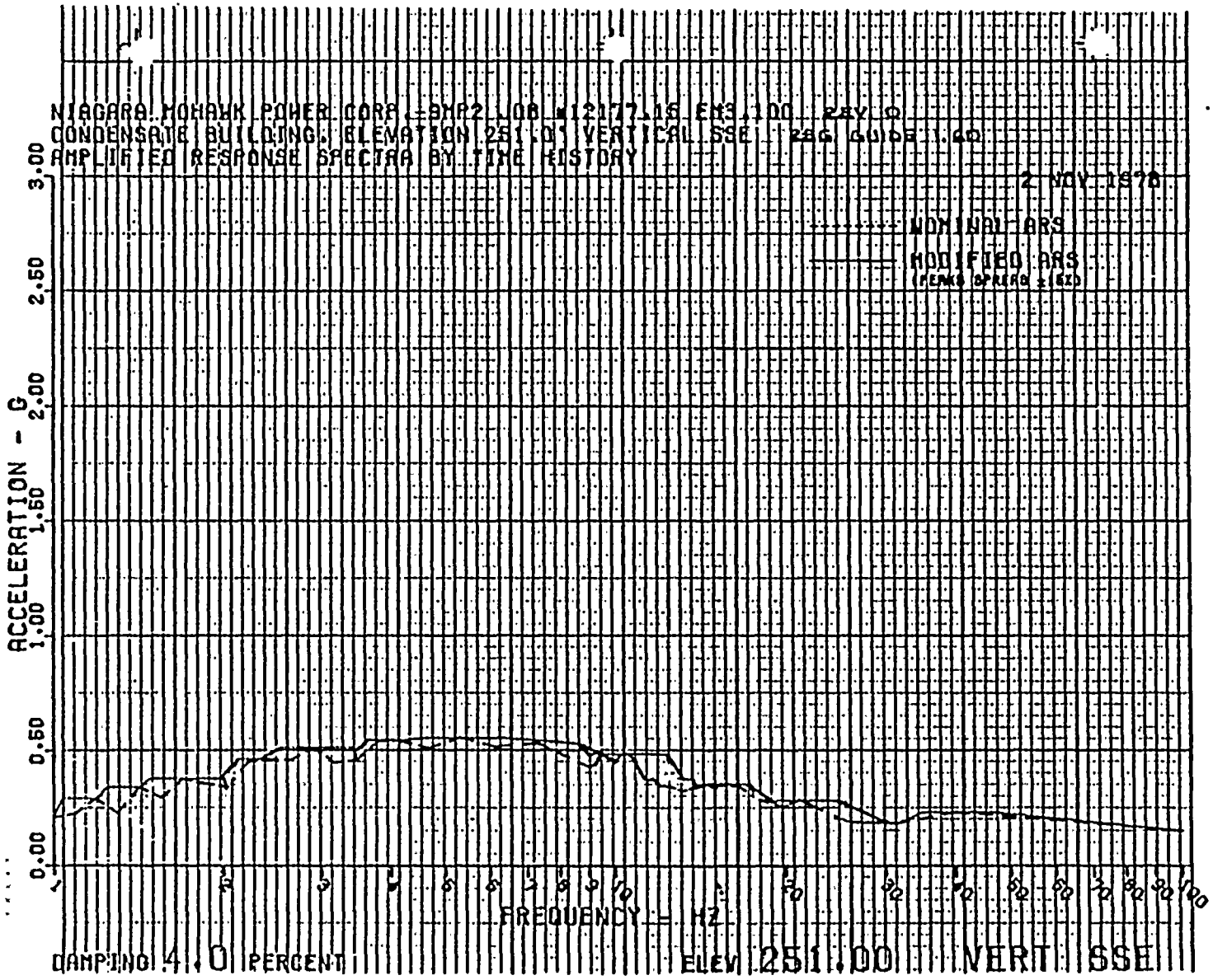
MS-1374 REV 0 REF 21
12/77



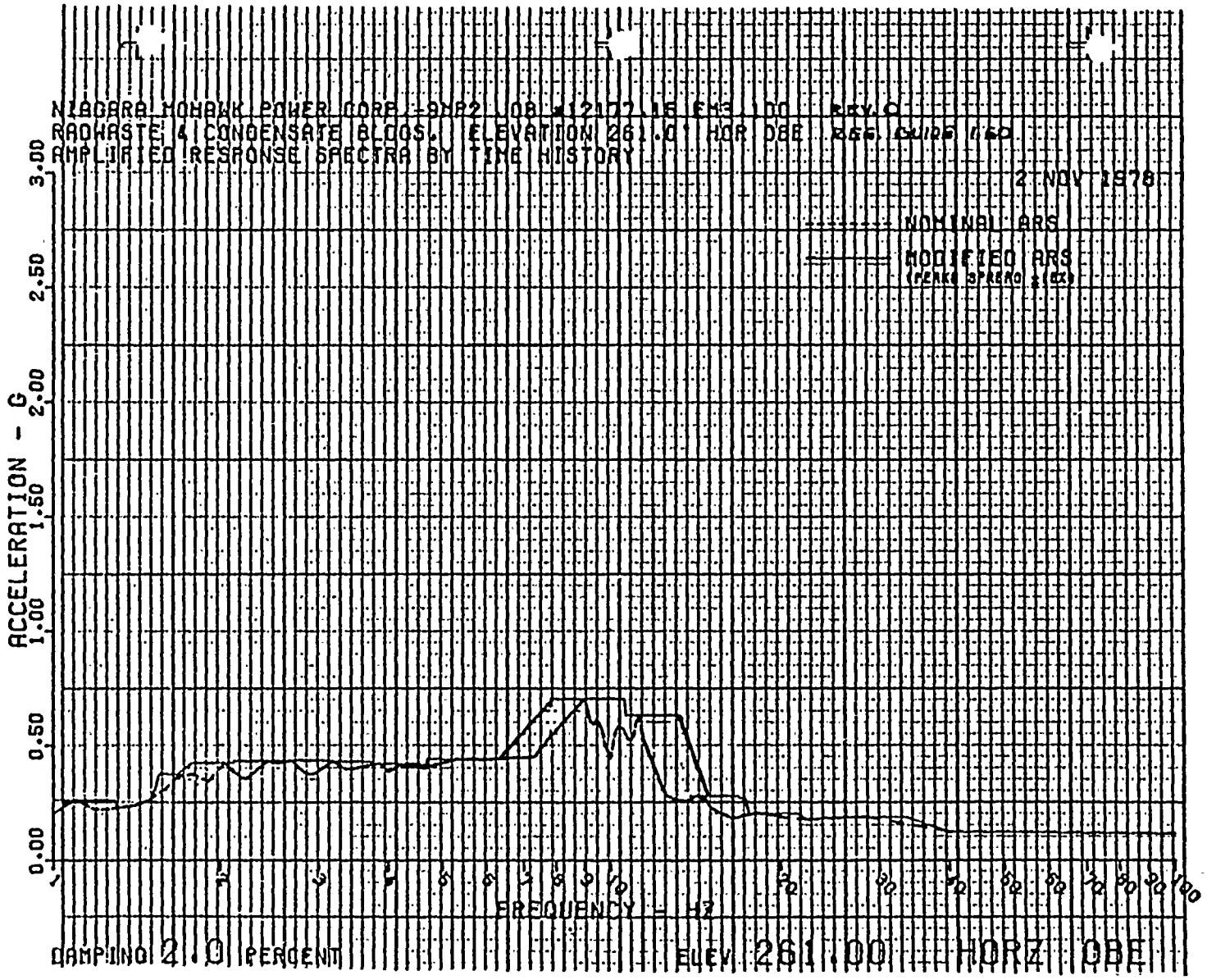
MS-1374 REV 0 REF 21
12/77



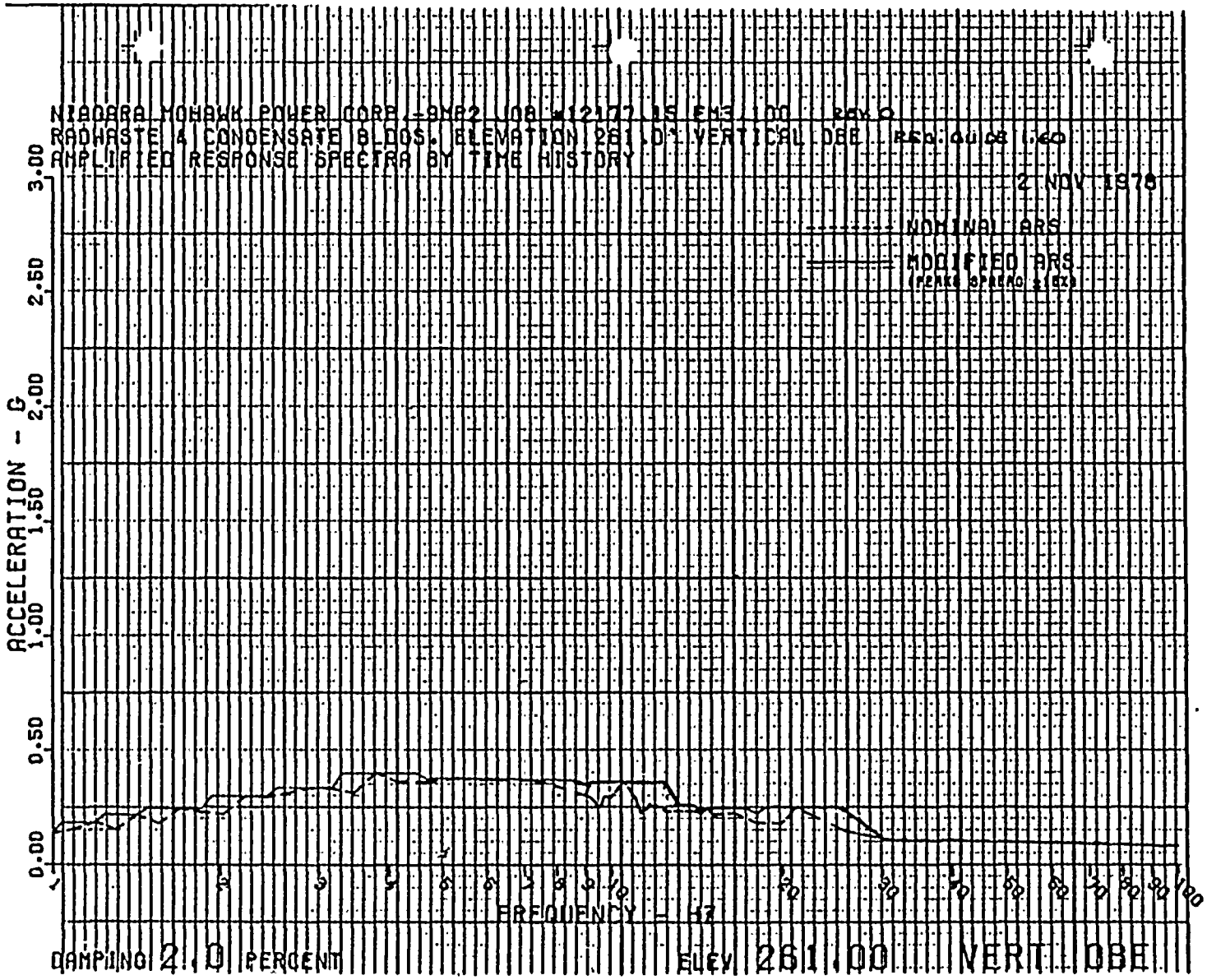
HS-1374 REV 0 REF 21
12177



WS-1374 REV 0 REF 21
12/77



MS-1374 REV 0 REF 22
12/77



MS-1374 REV 0 REF 22
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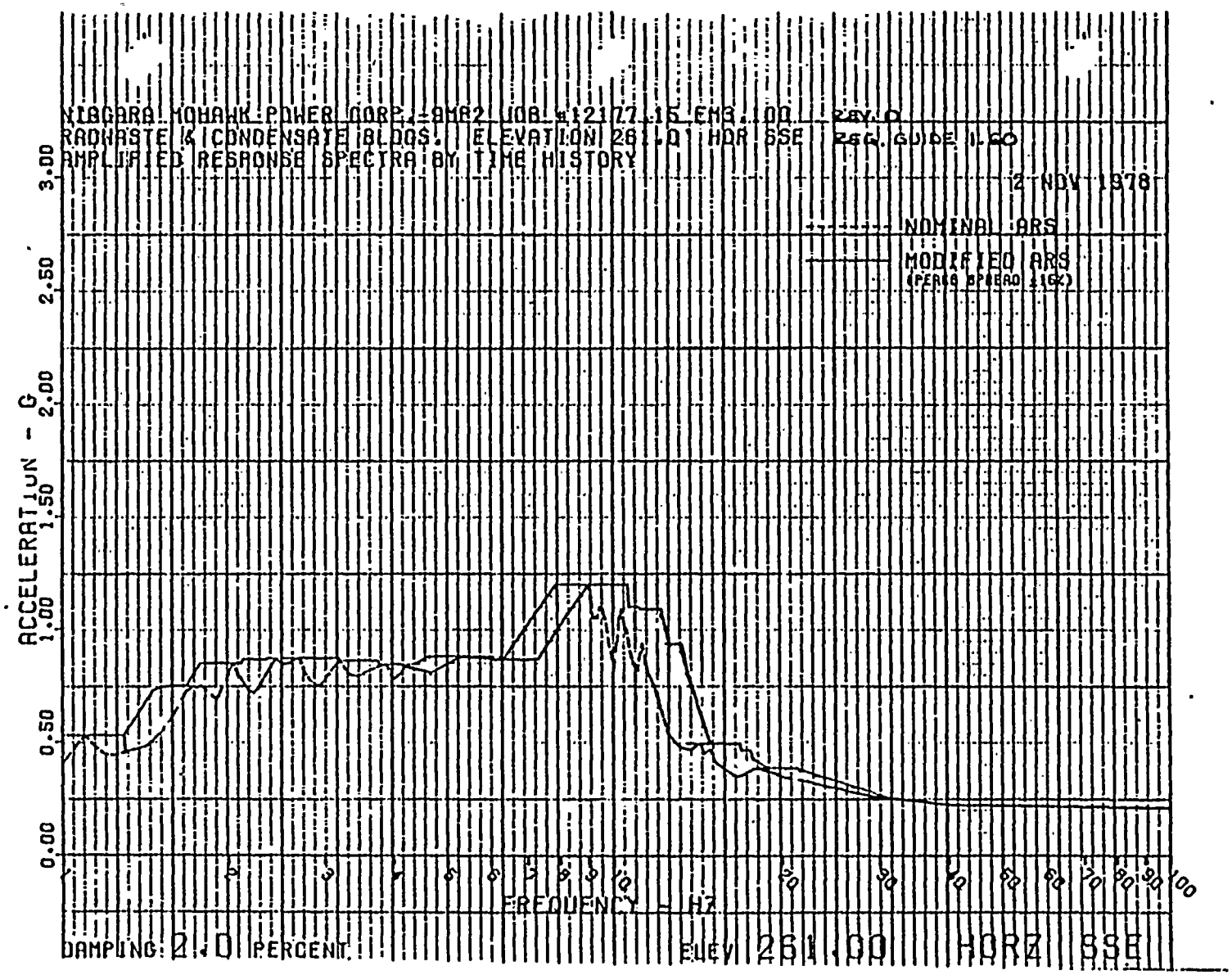
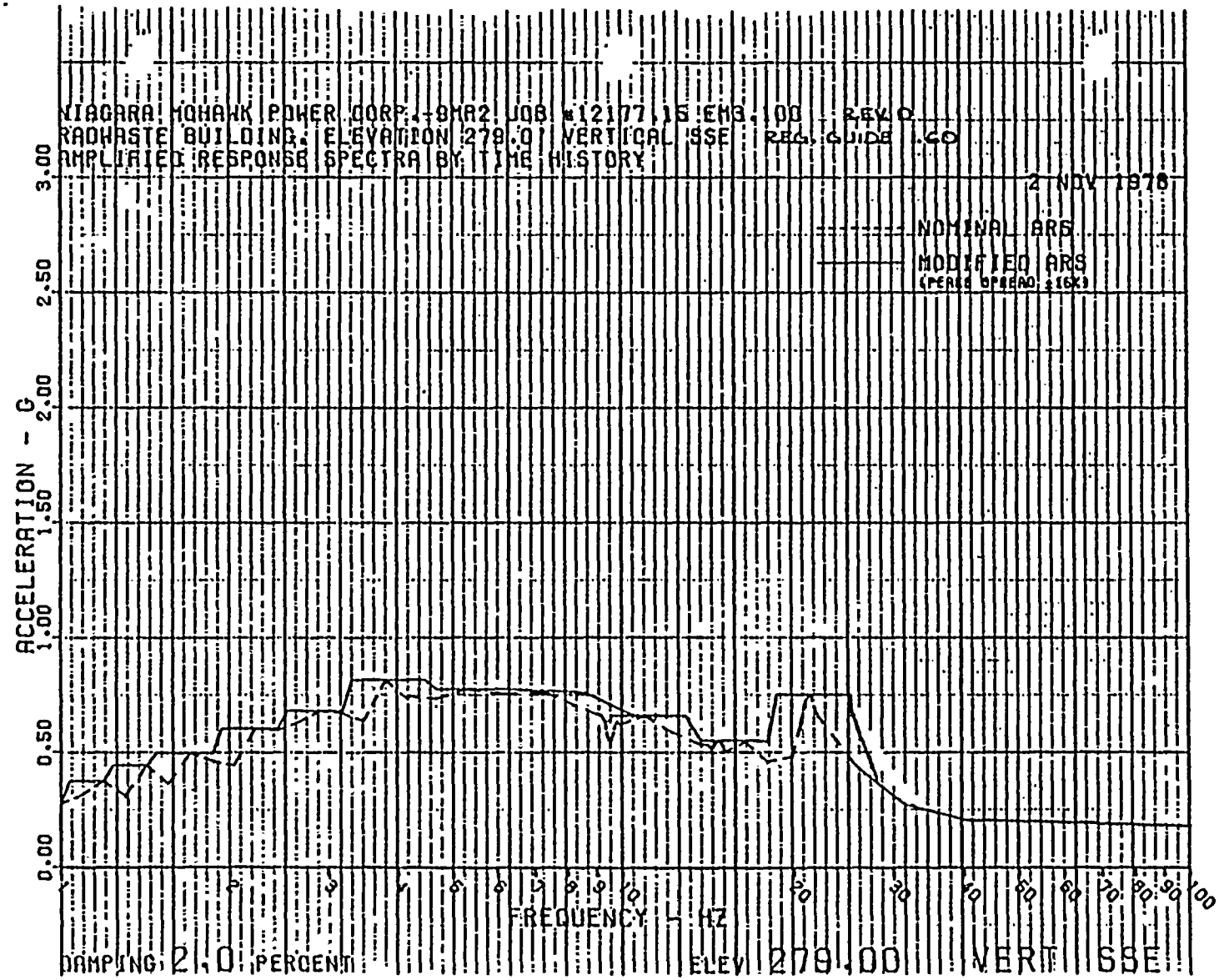
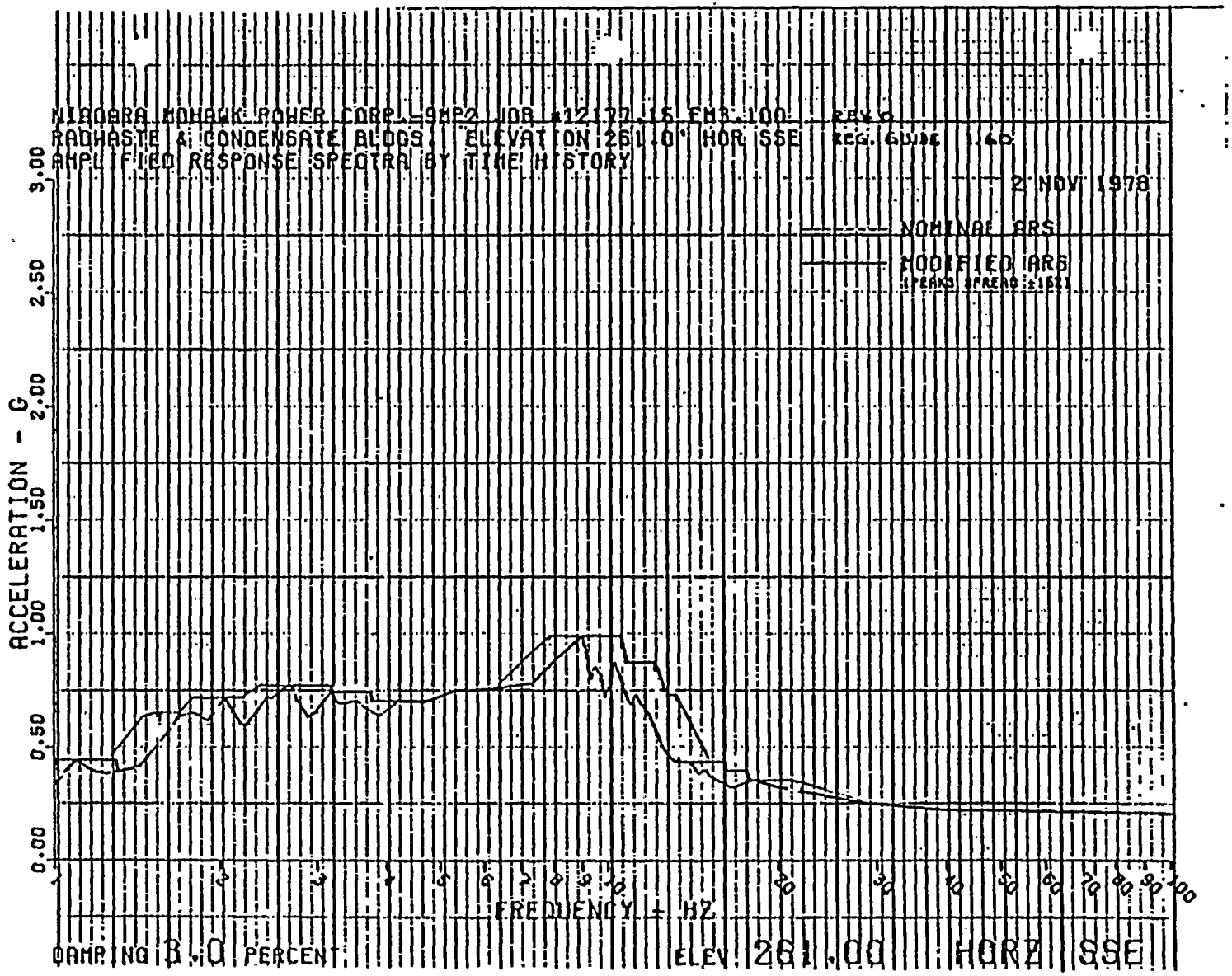


MS-1374 REV 0 REF 22
12/77



MY 1374 REV 0 REF 22

12177



HS-1374 REV 0 REF 22
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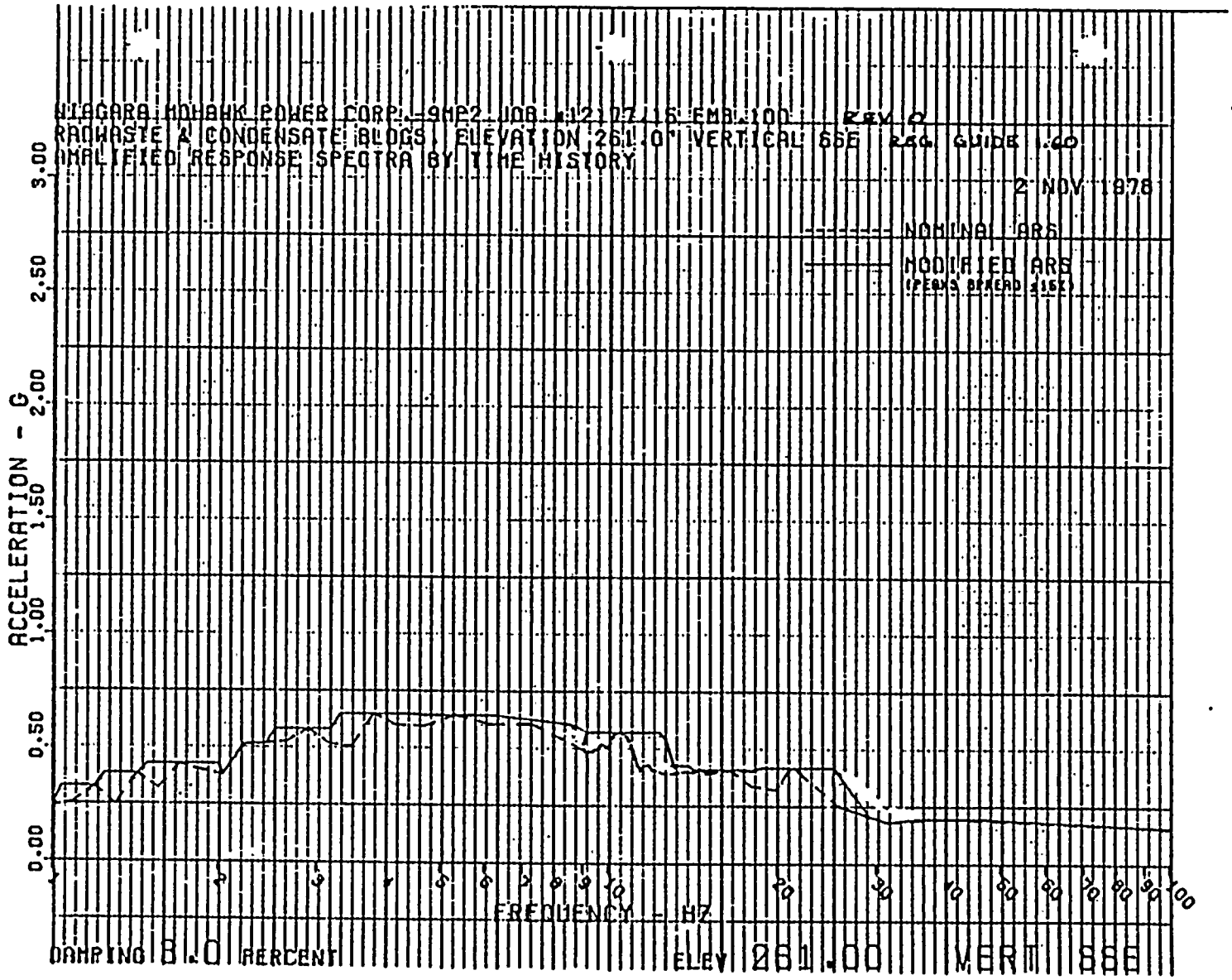

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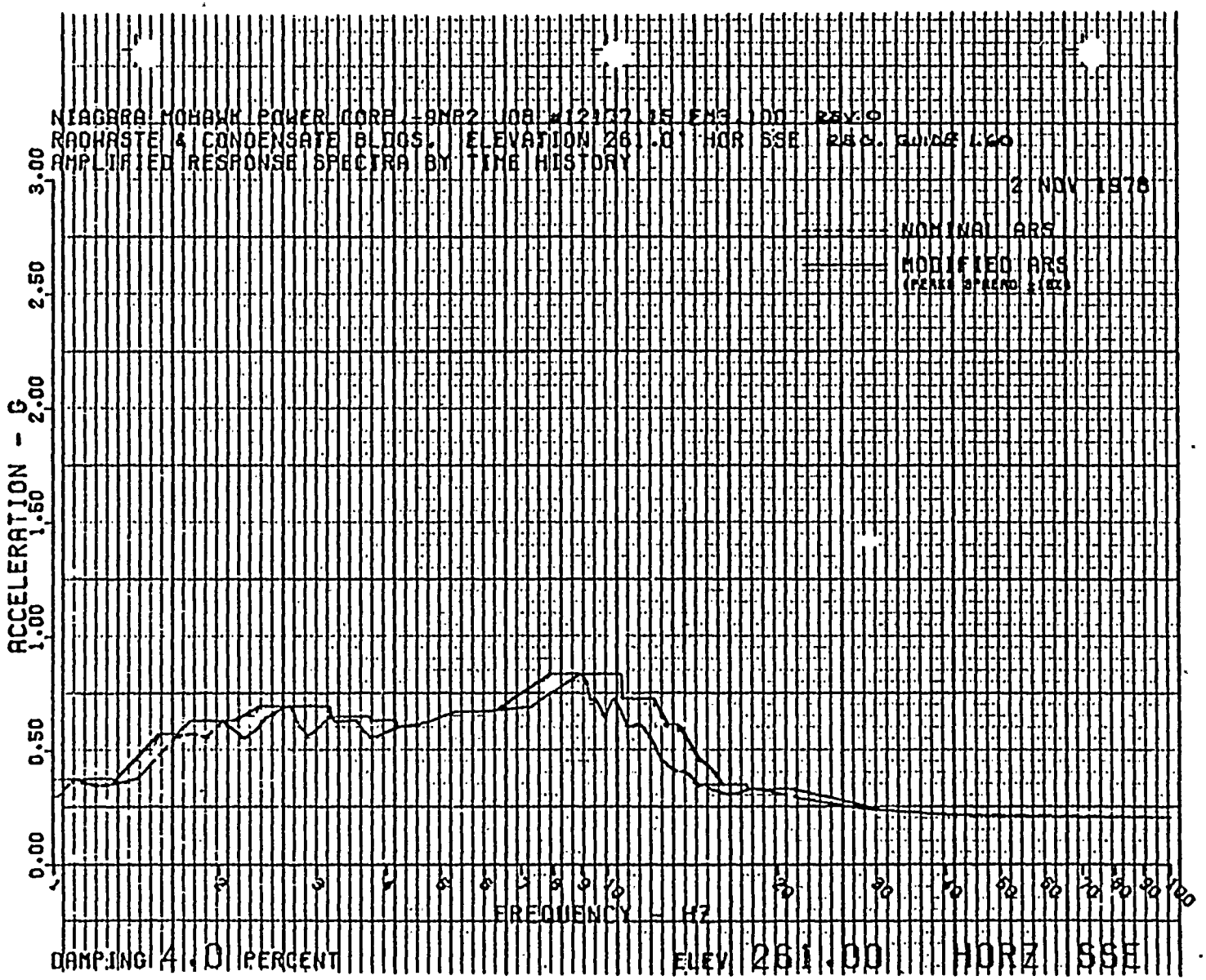
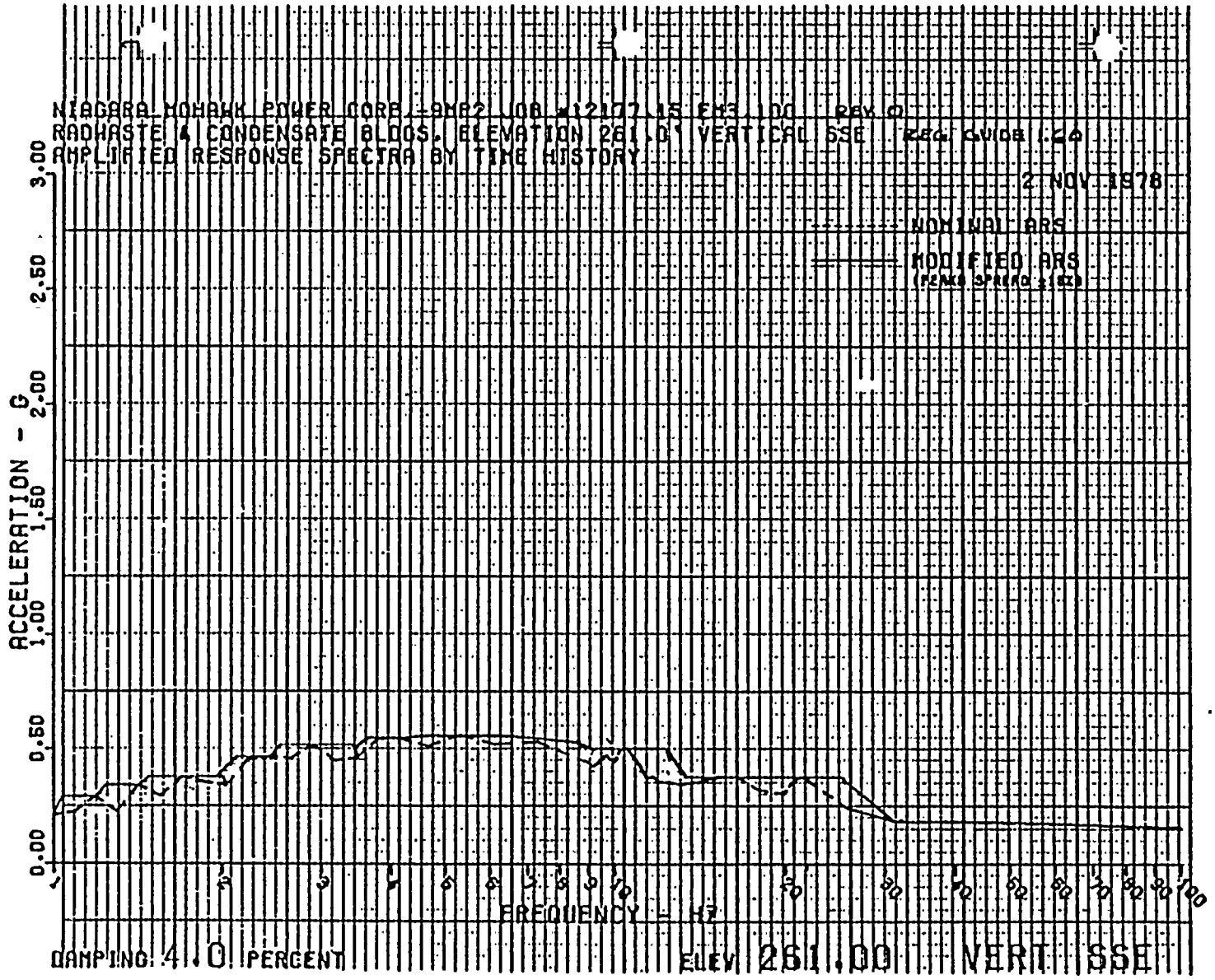


HS-1374 REV. 0 REF 22
12/77



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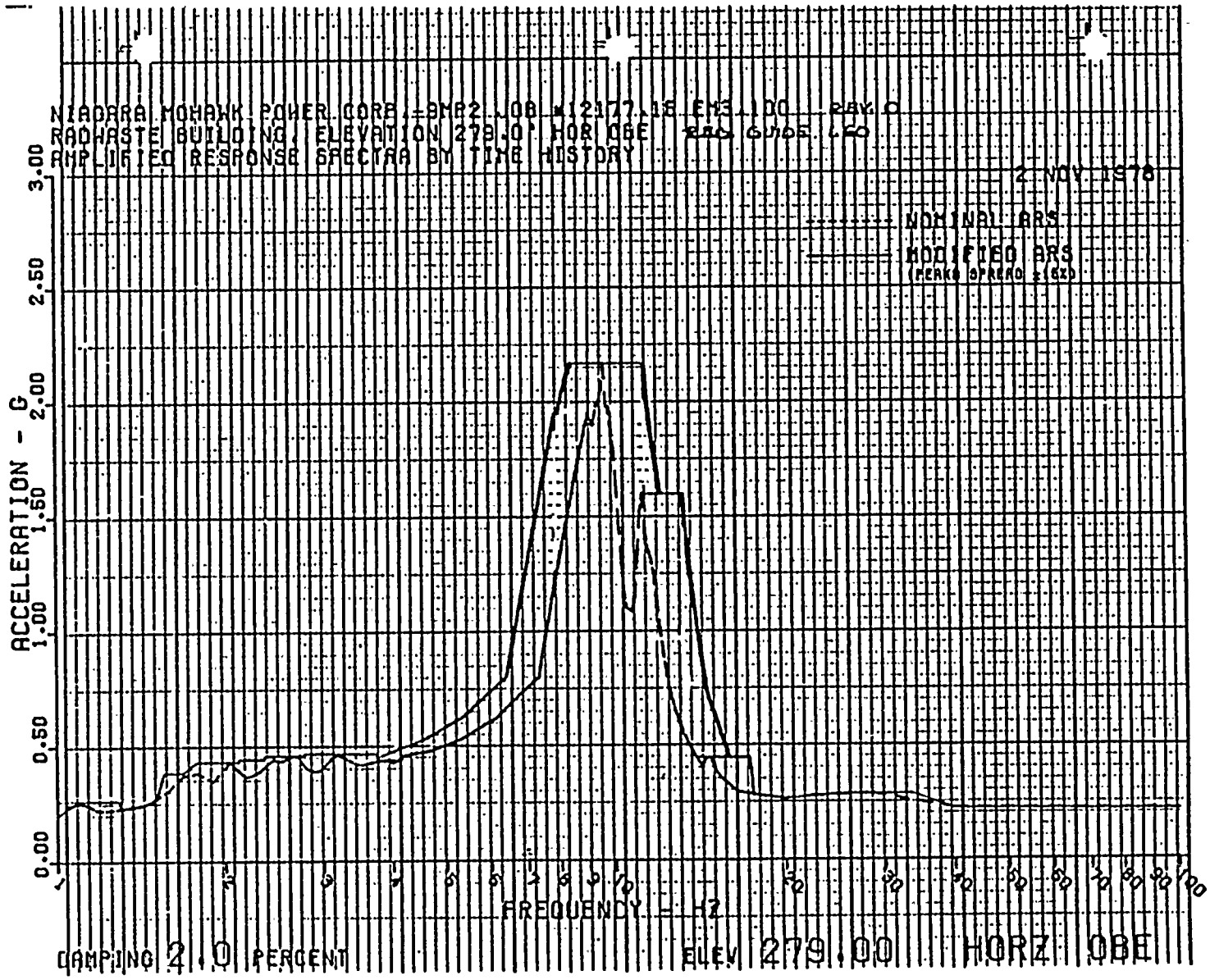

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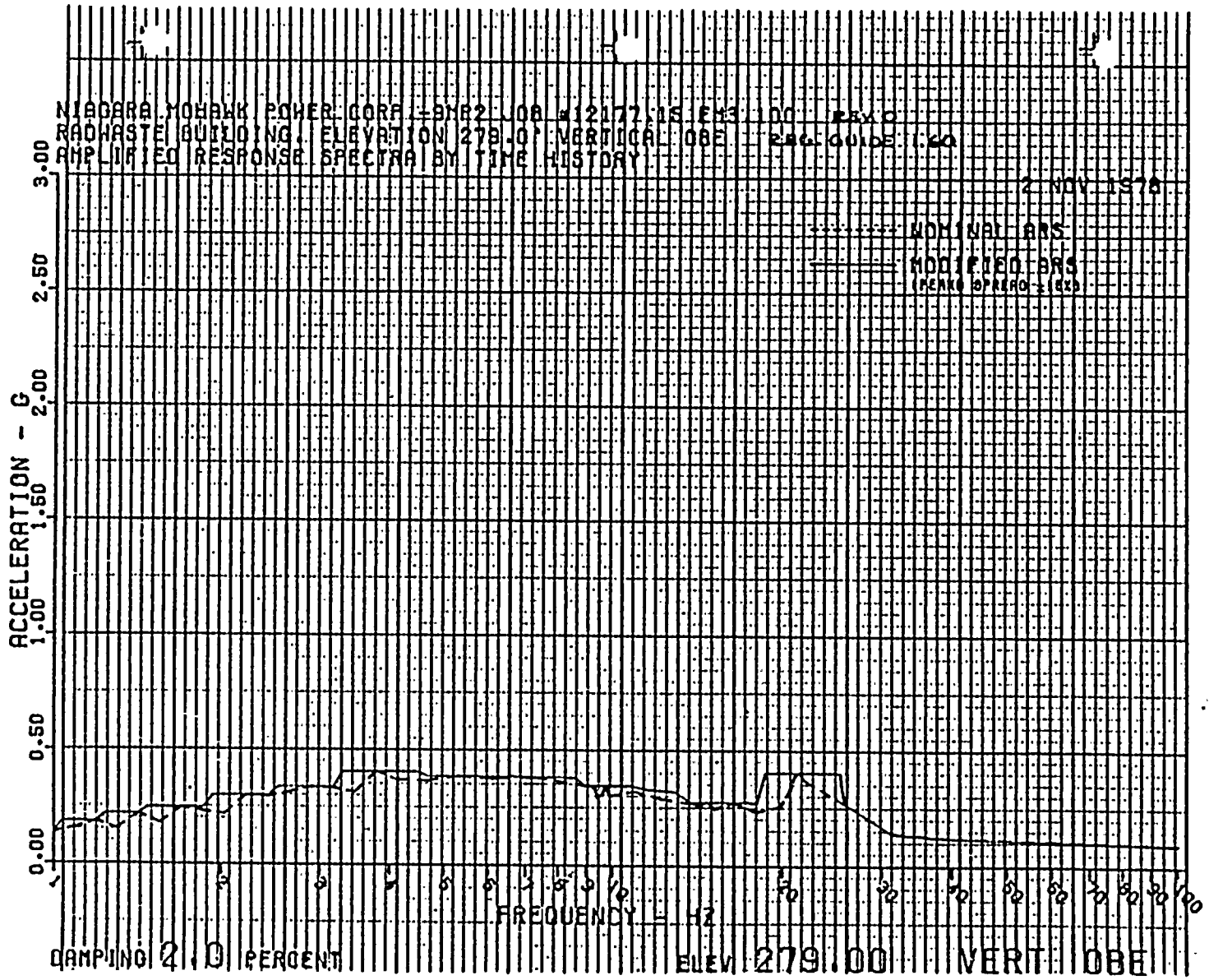

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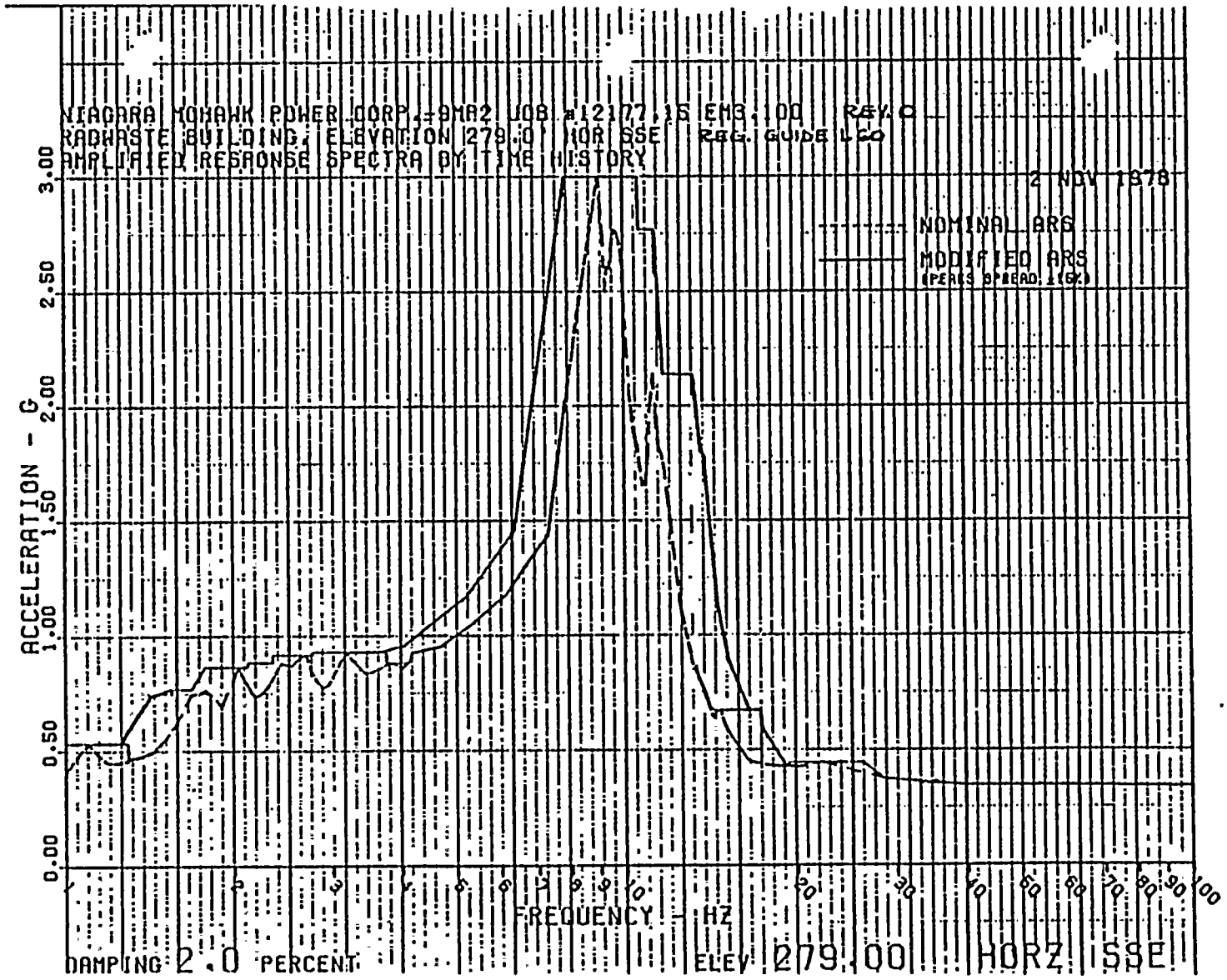

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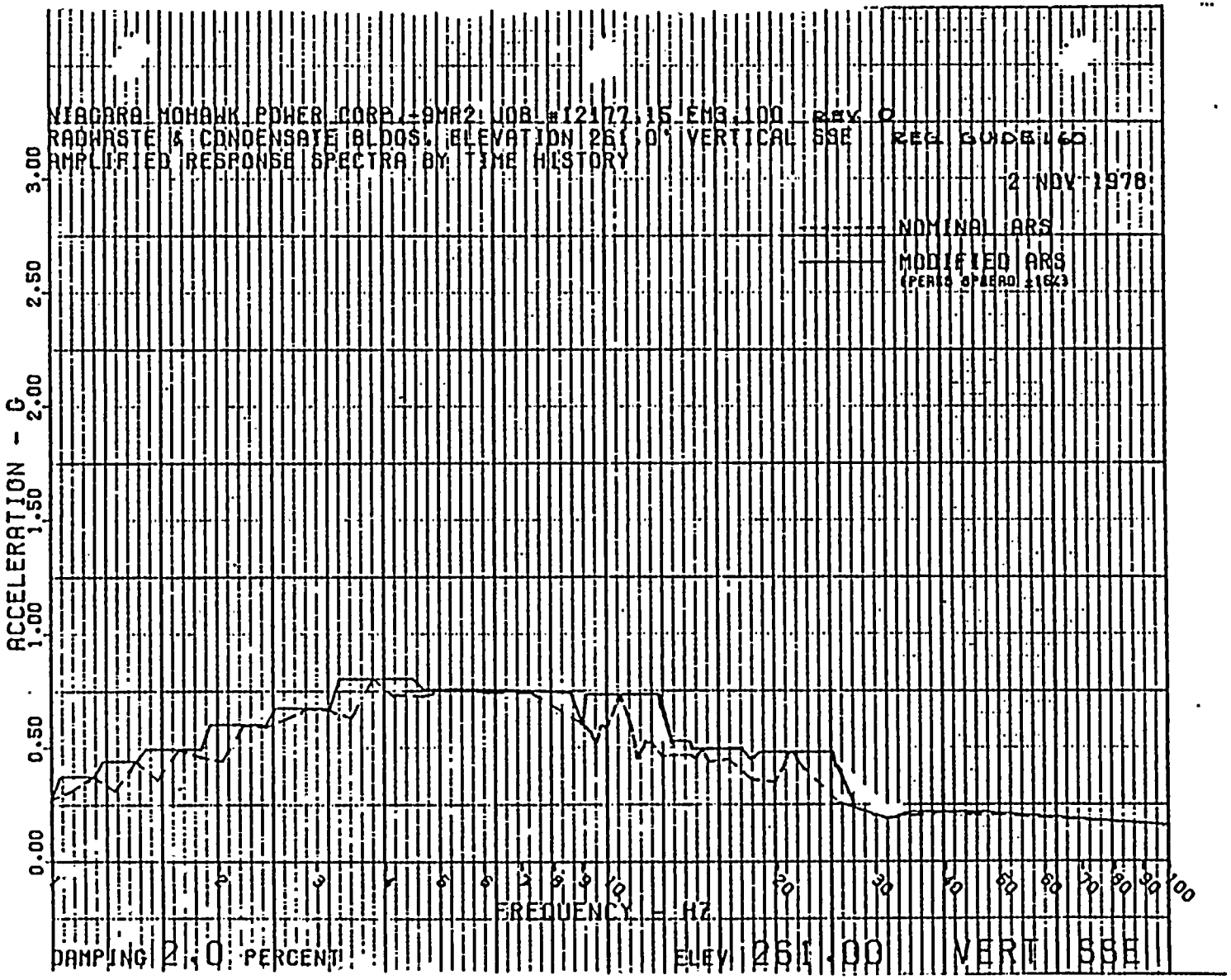
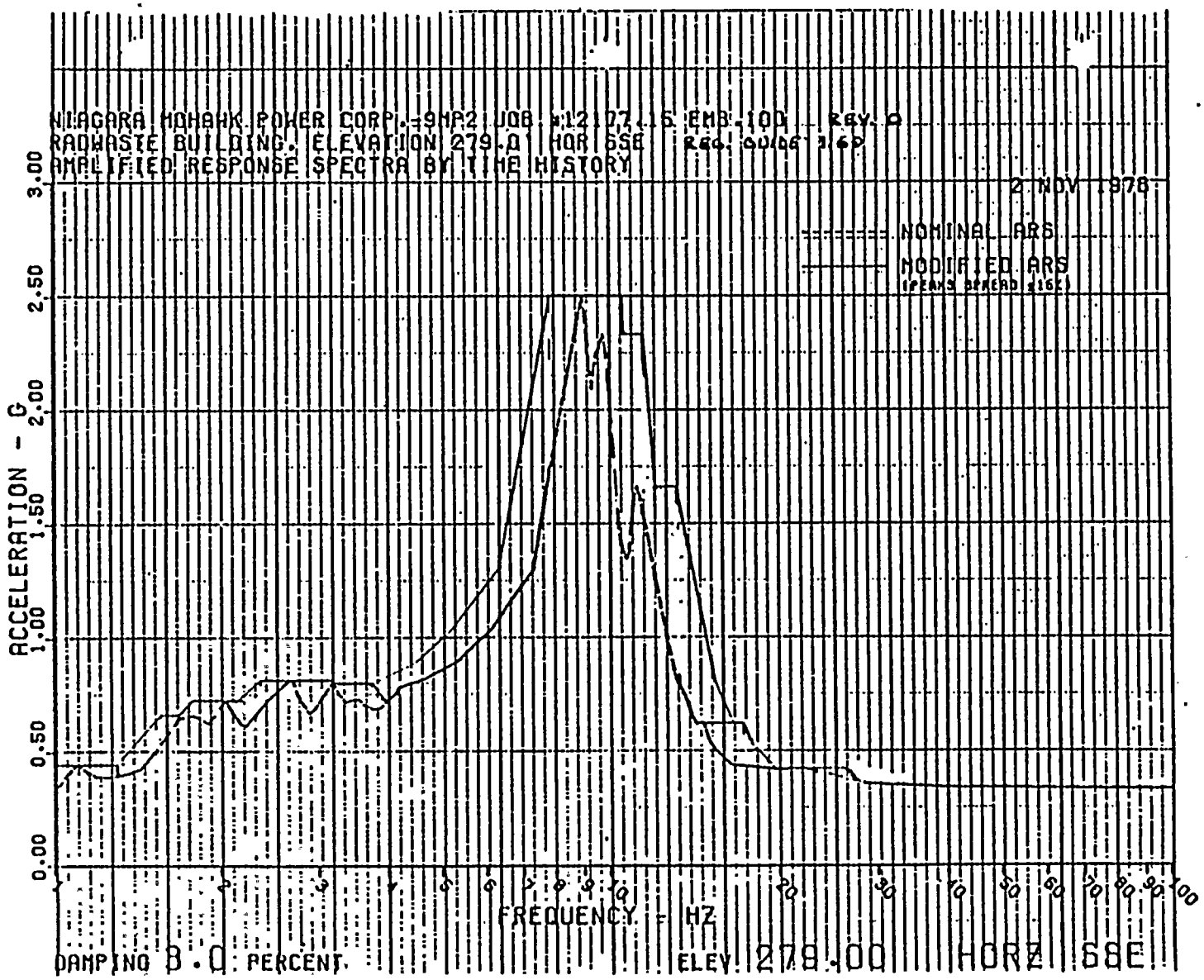
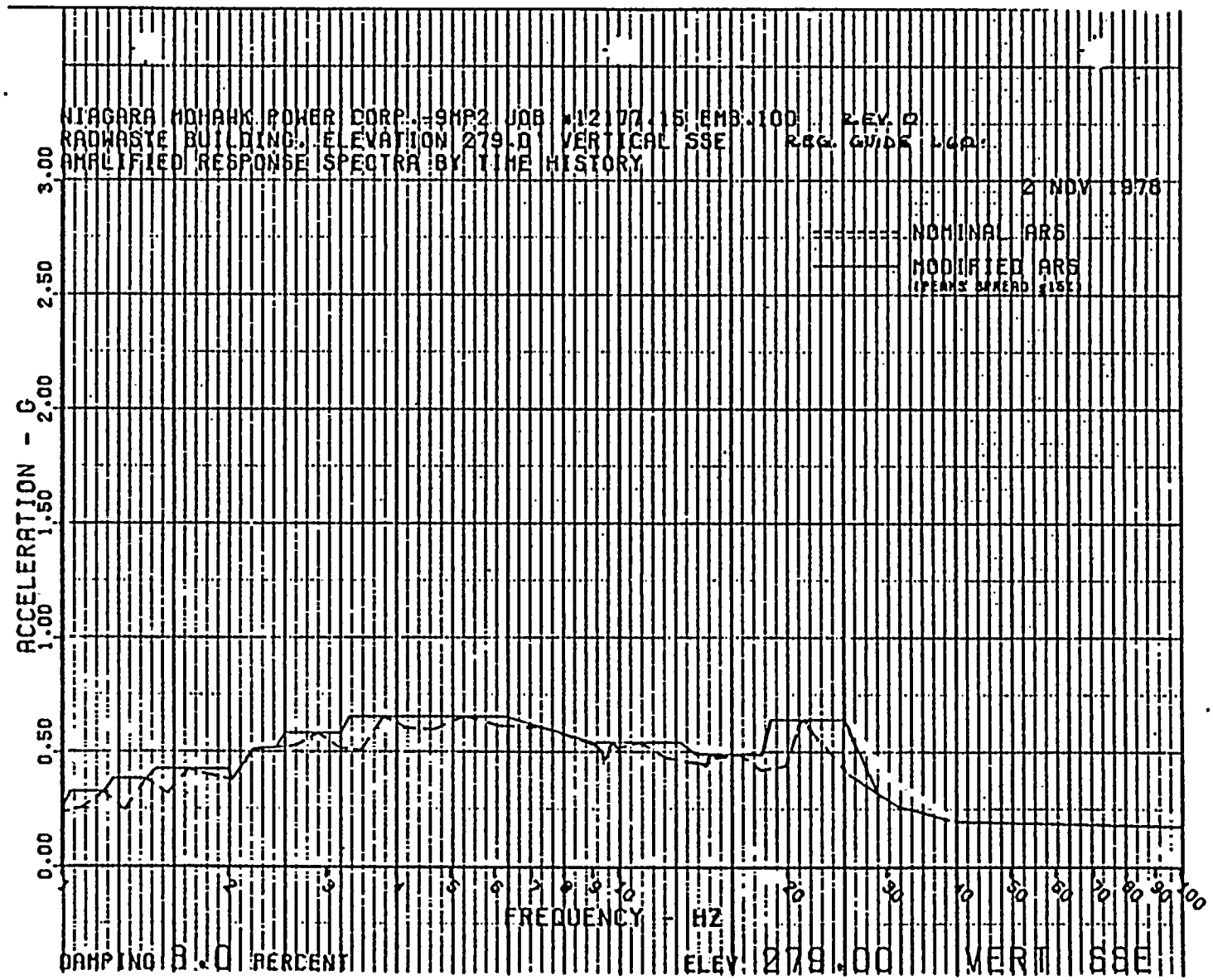


MS-13874 REV 0 REF 23
12/77



MS-1374 REV 0 REF 23
12/77



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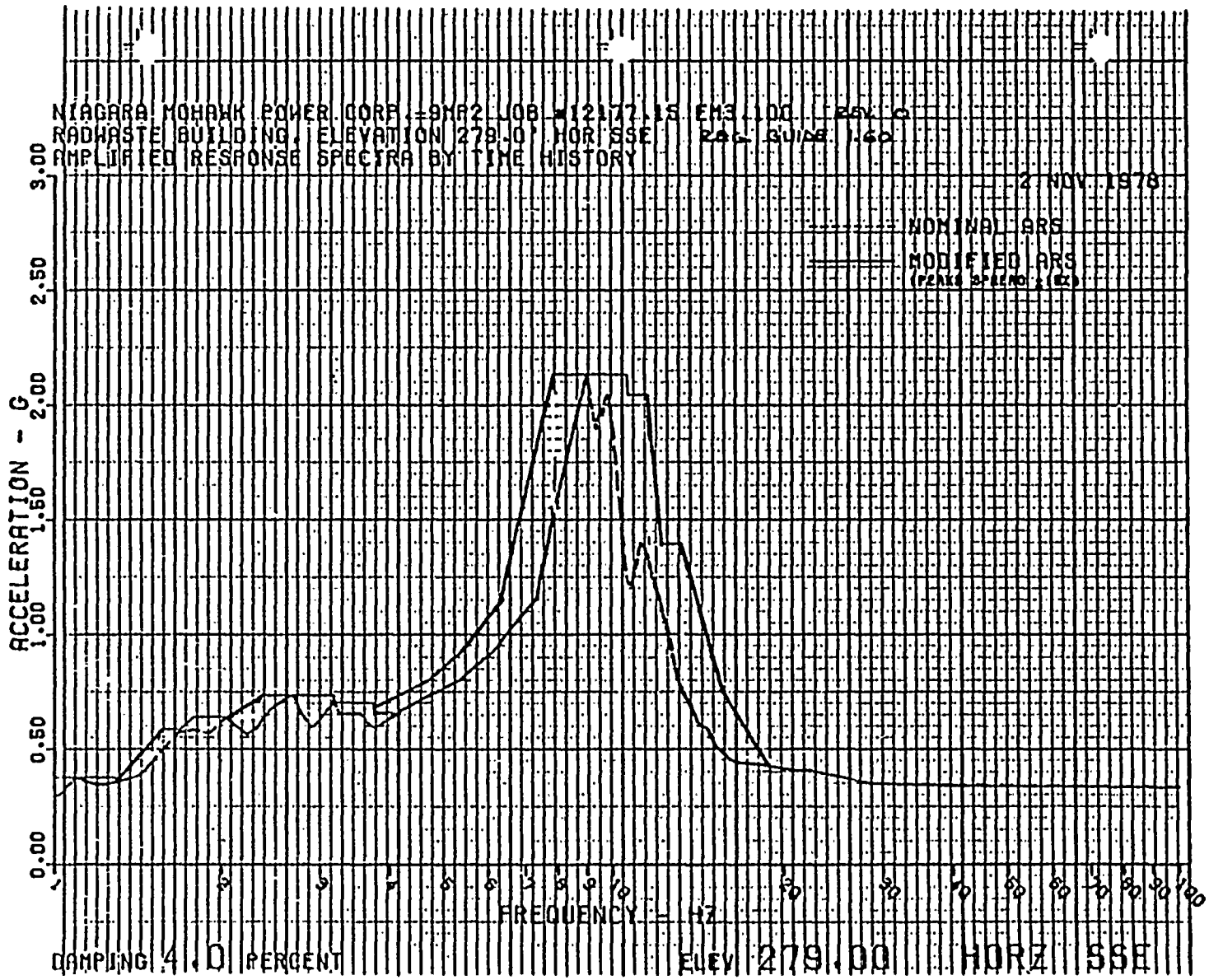
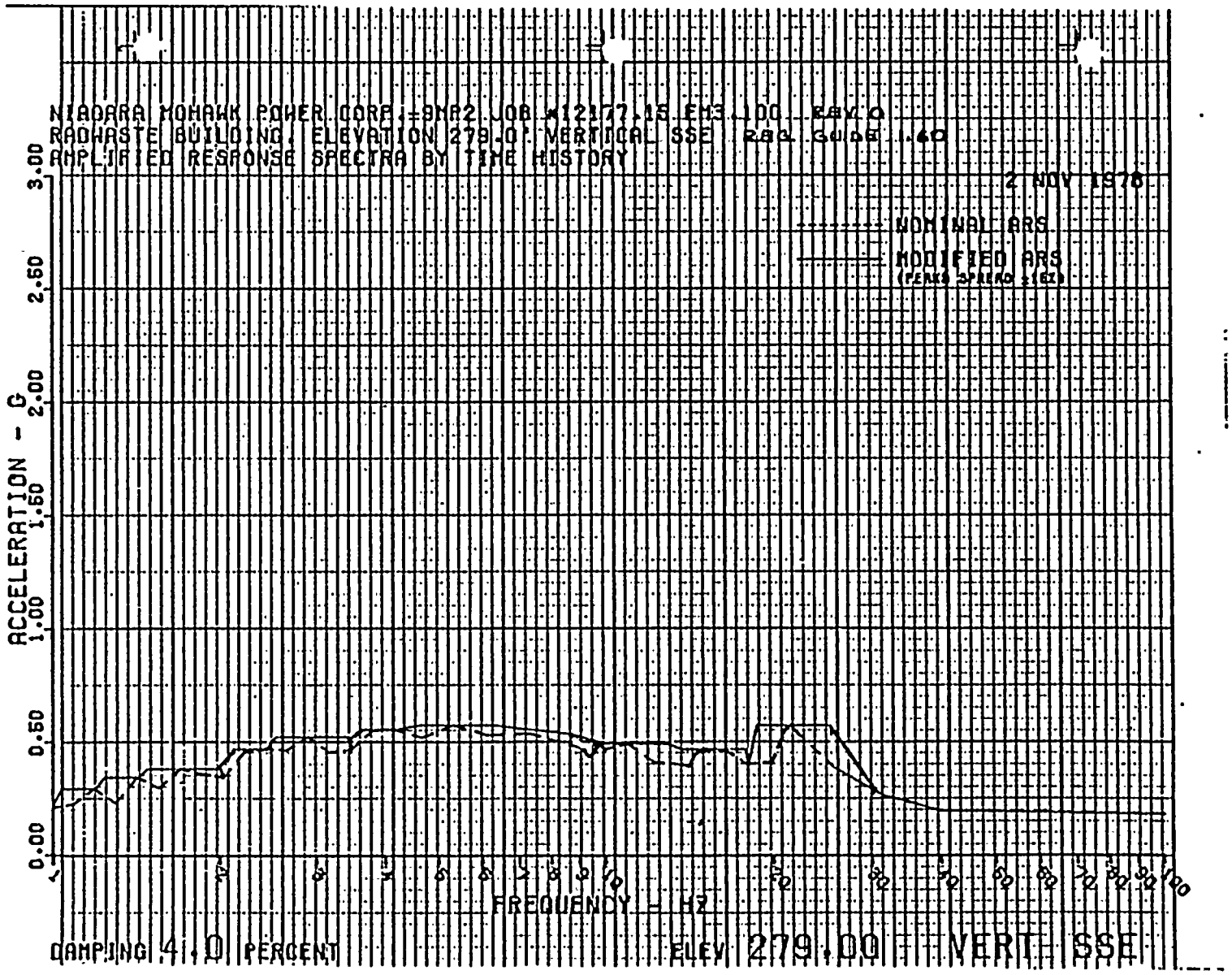
12177

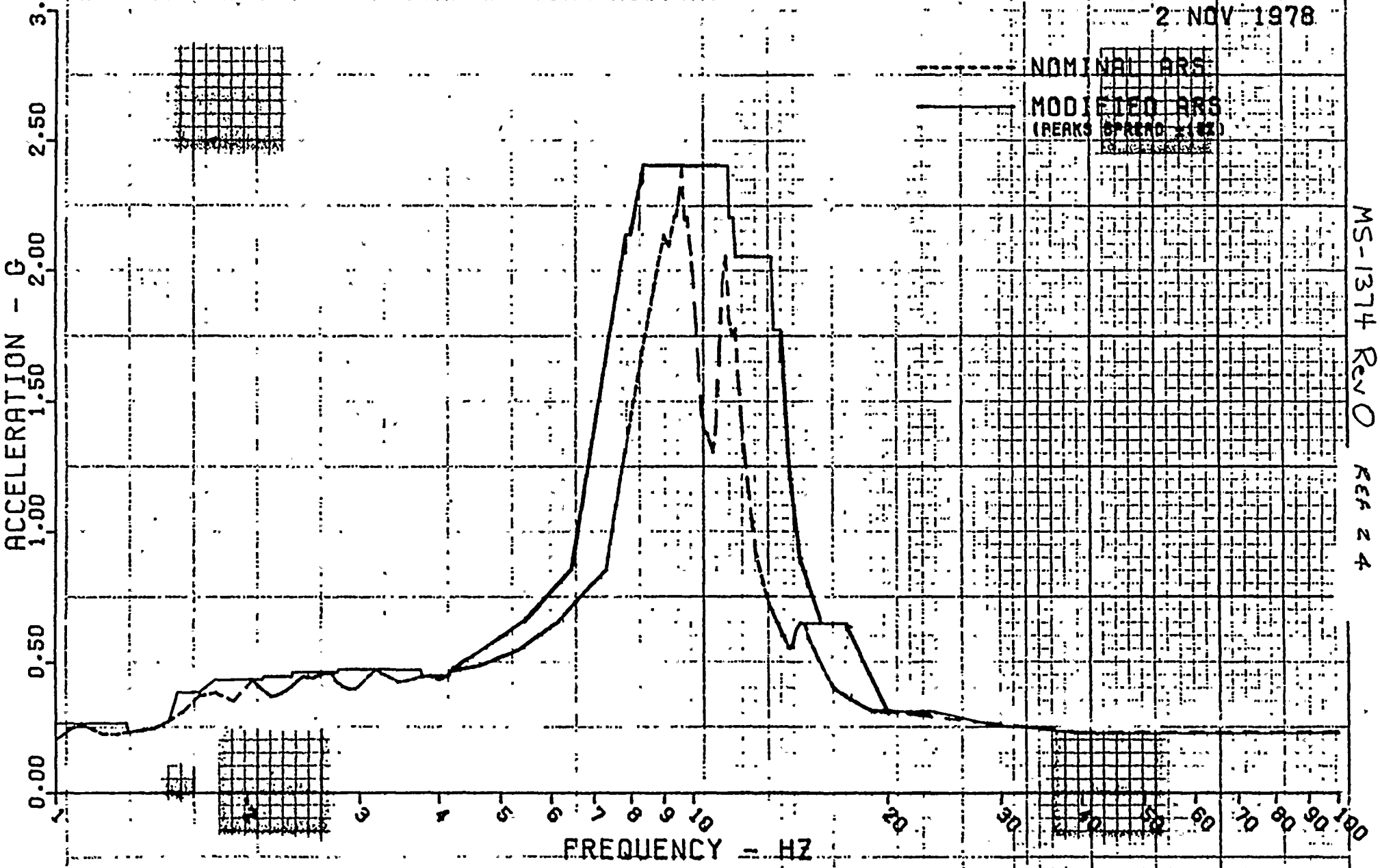


MS-1374 REV 0 REF 23
12/77



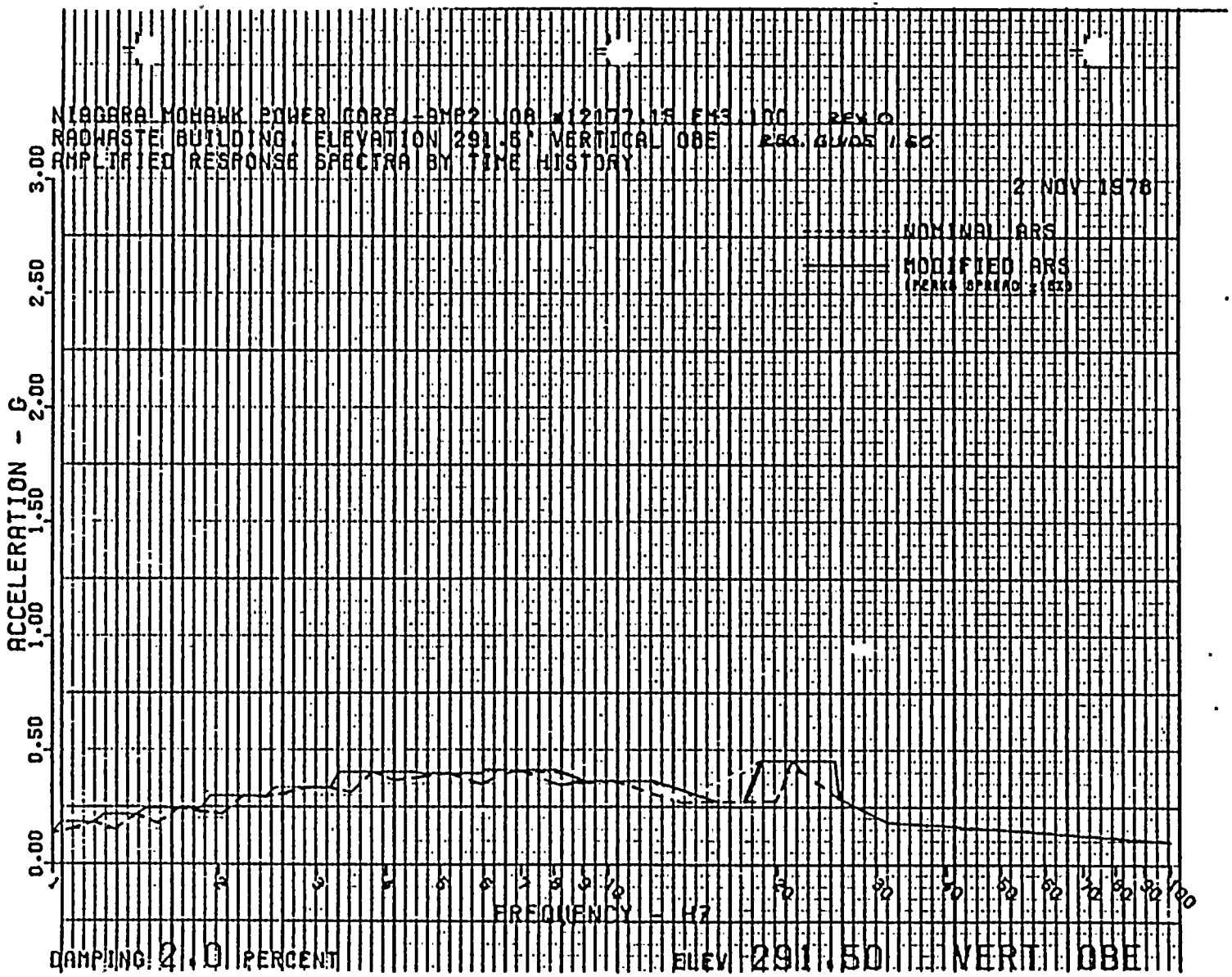
MS-1374 REV 0 REF 23
12177

NIAGARA MOHAWK POWER CORP.-9MP2 JOB #12177.15.EM3.100 REV.0
RADWASTE BUILDING, ELEVATION 291.5' HOR OBE REG. GUIDE 1.60
AMPLIFIED RESPONSE SPECTRA BY TIME HISTORY

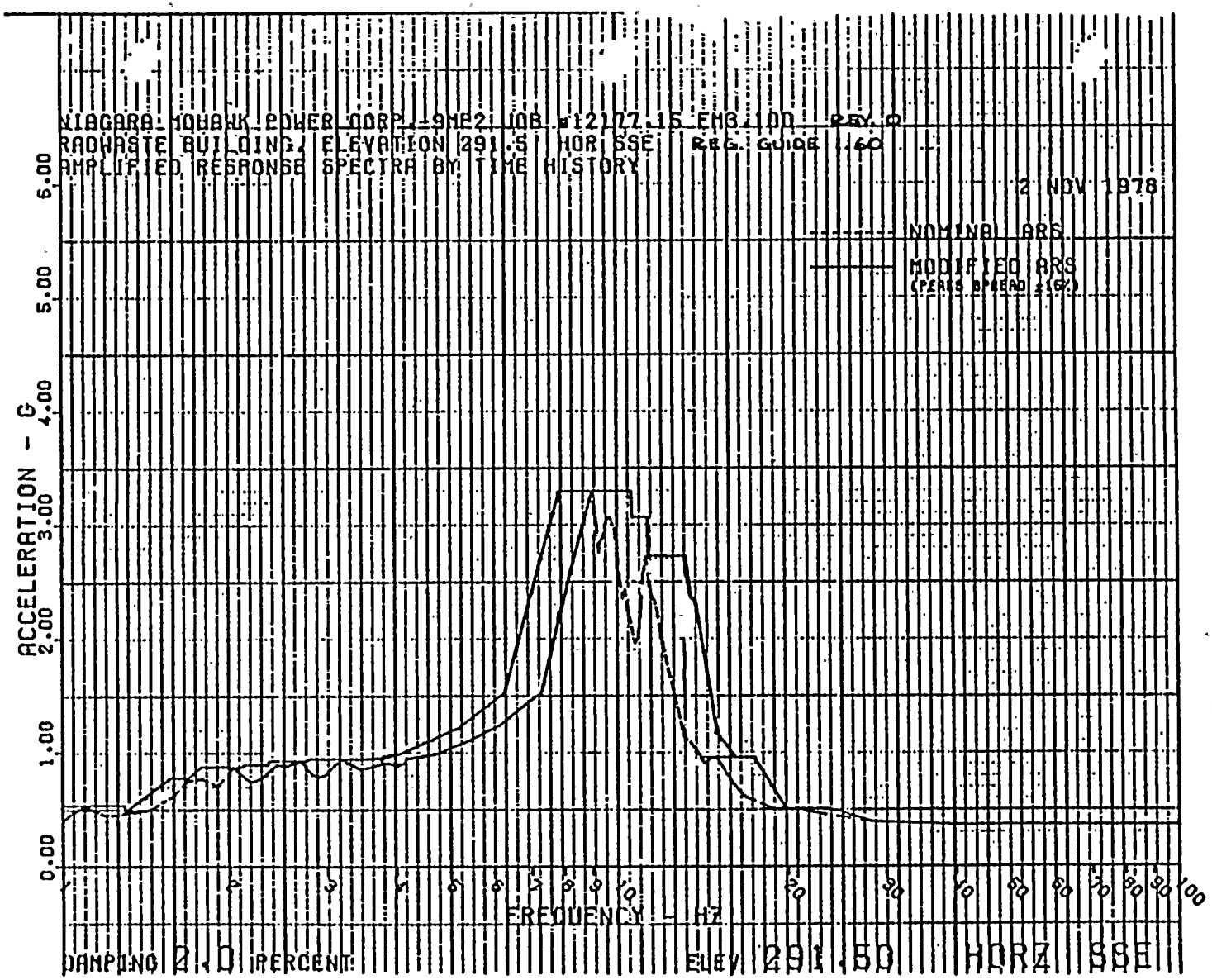


MS-1374 Rev 0 REF 2 4

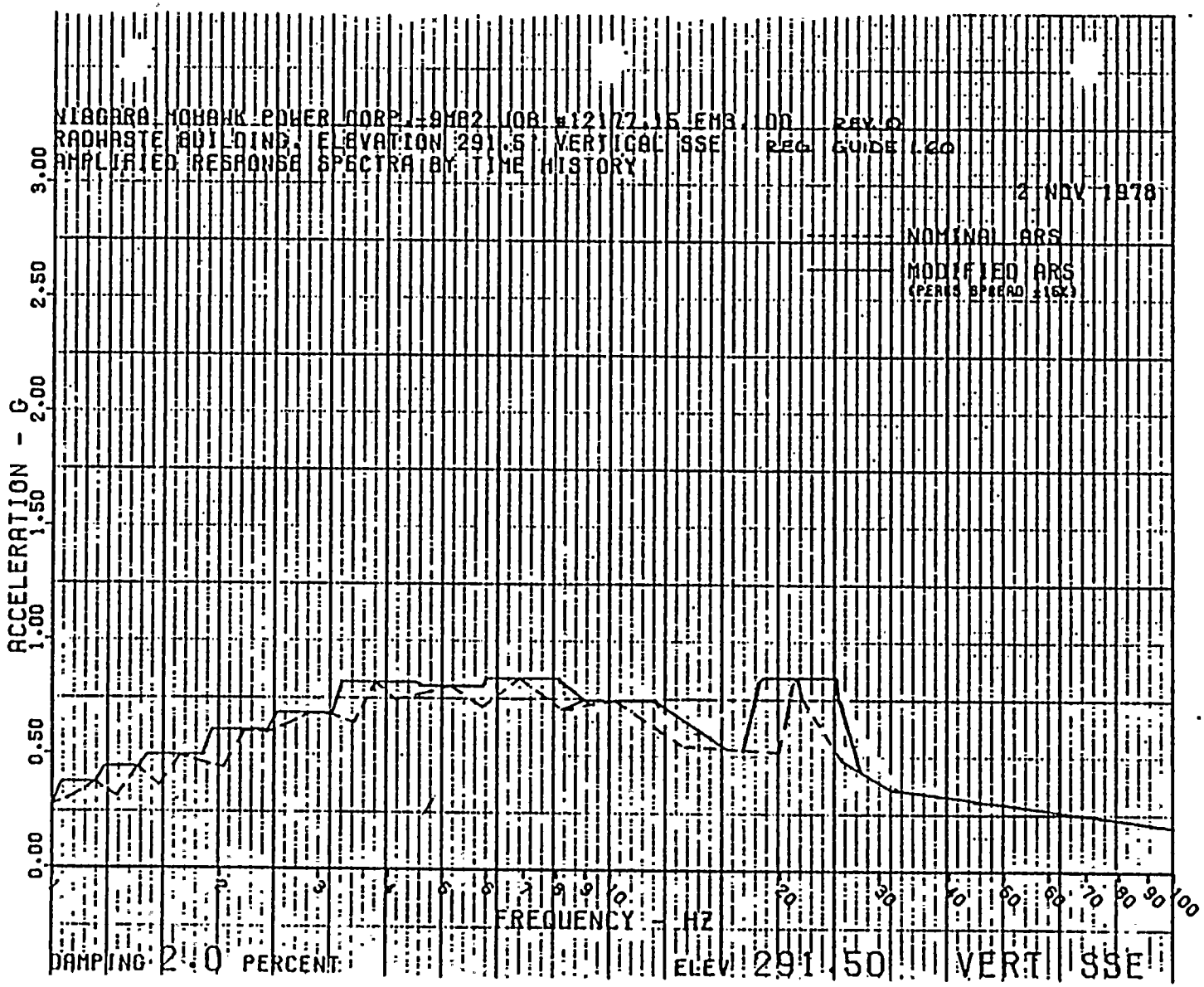
DAMPING 2.0 PERCENT ELEV 291.50 HORZ OBE



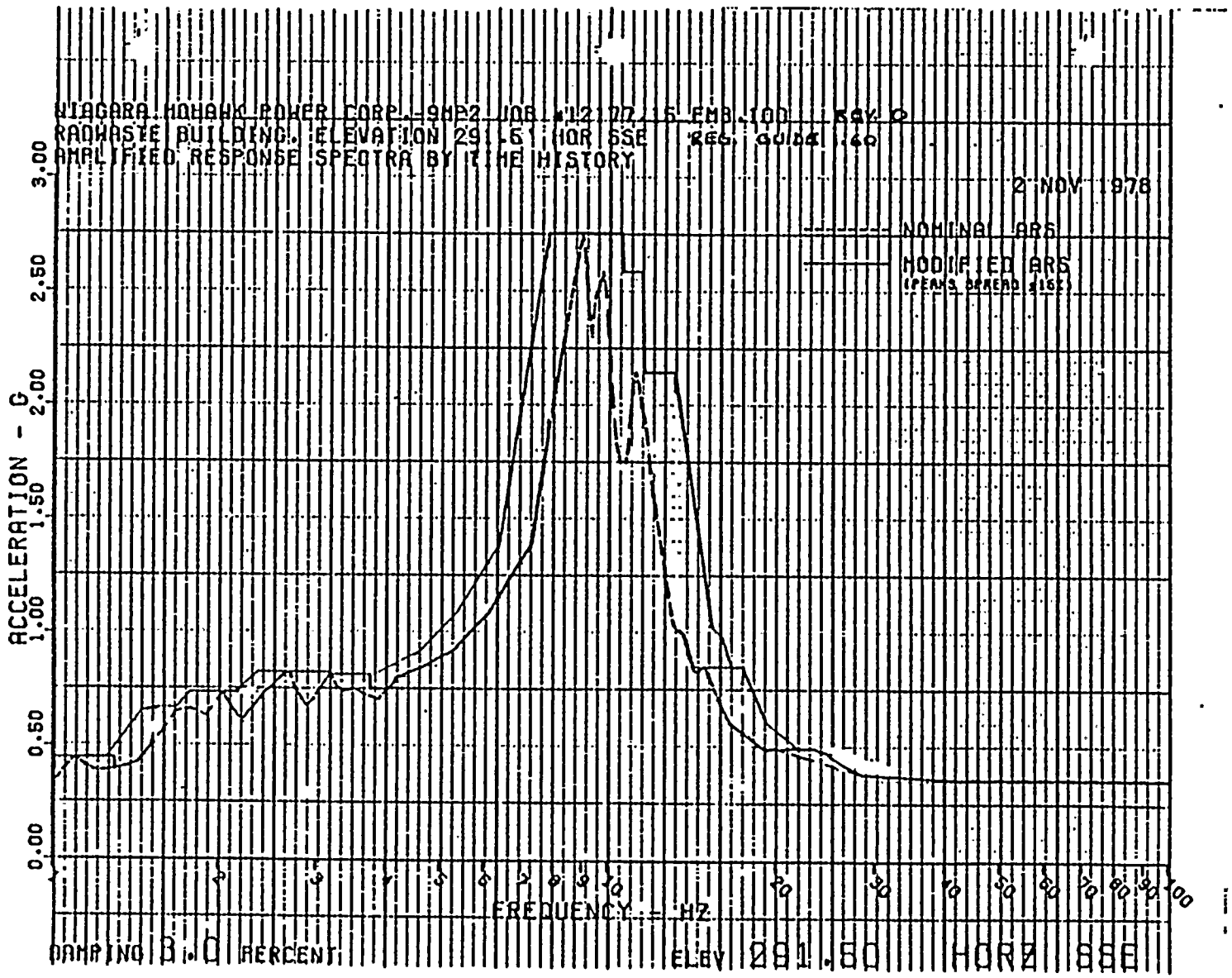
MS-1374 REV 0 REF 24
12/77



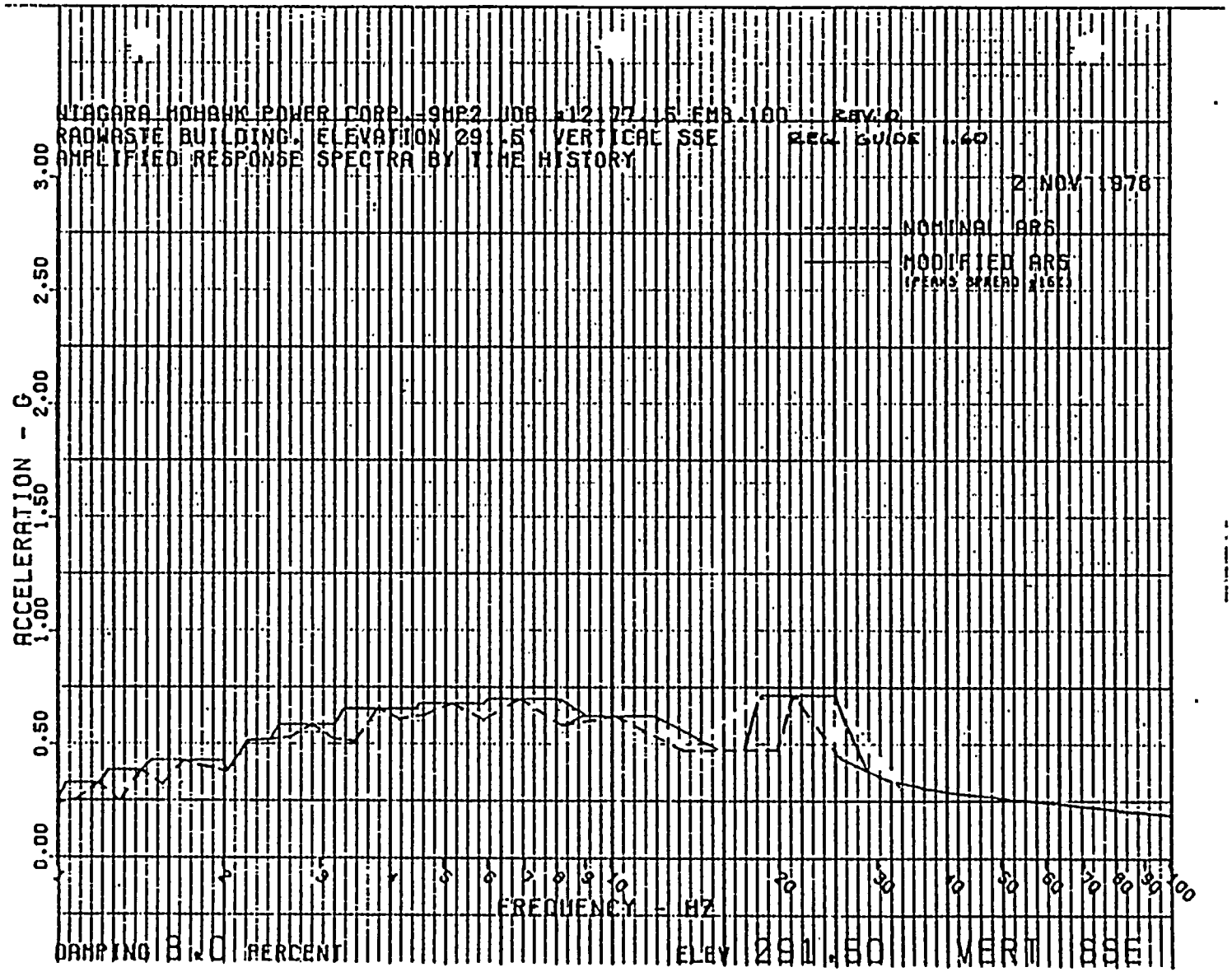
MS-1374 REV 0 REF 24
12/77



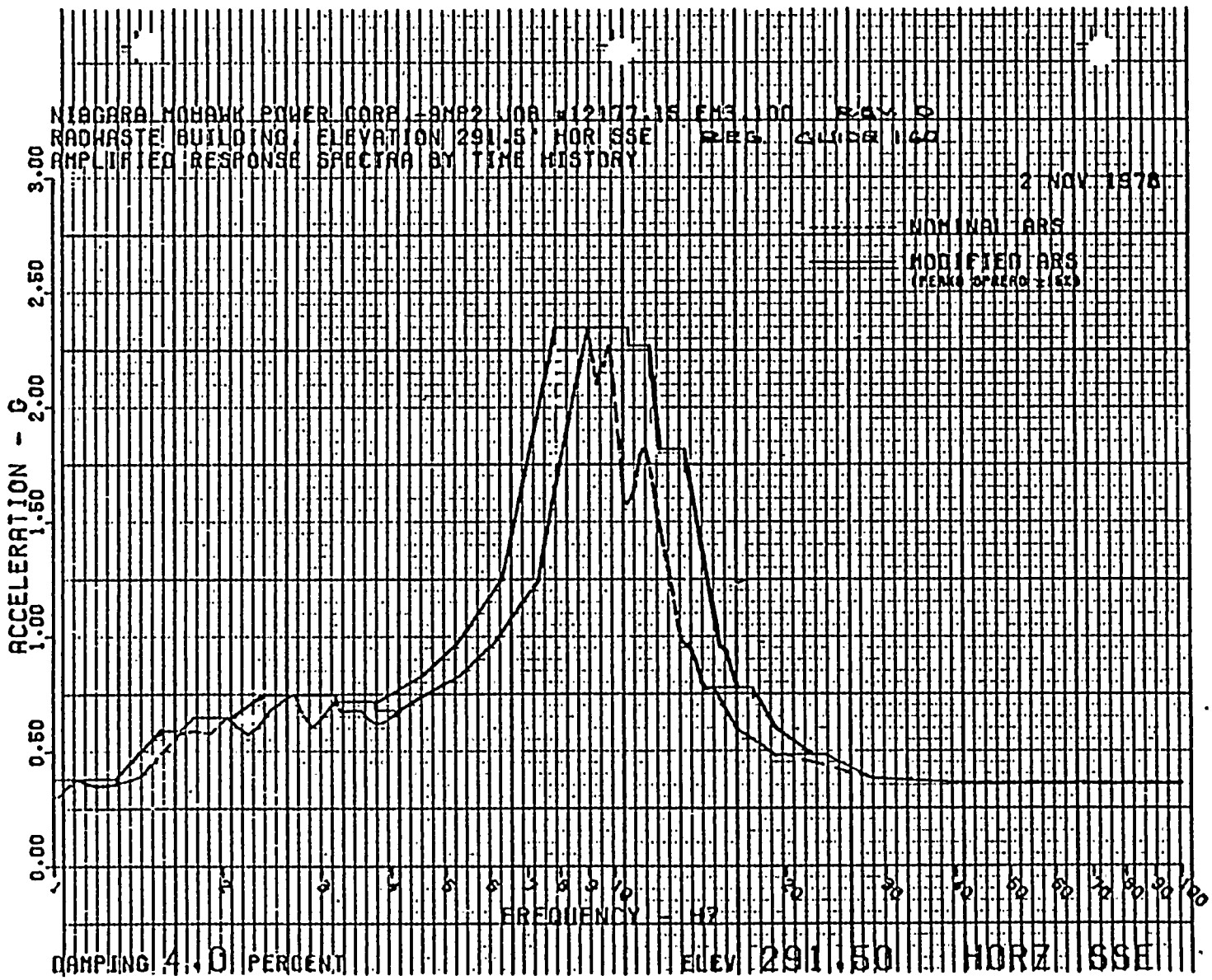
MS- 1374 REV 0 REF 24
12/77



MS-1374 REV 0 REF 24
12/77



NS-1374 REV 0 REF 24
12/77



MS-1374 REV 0 REF 24
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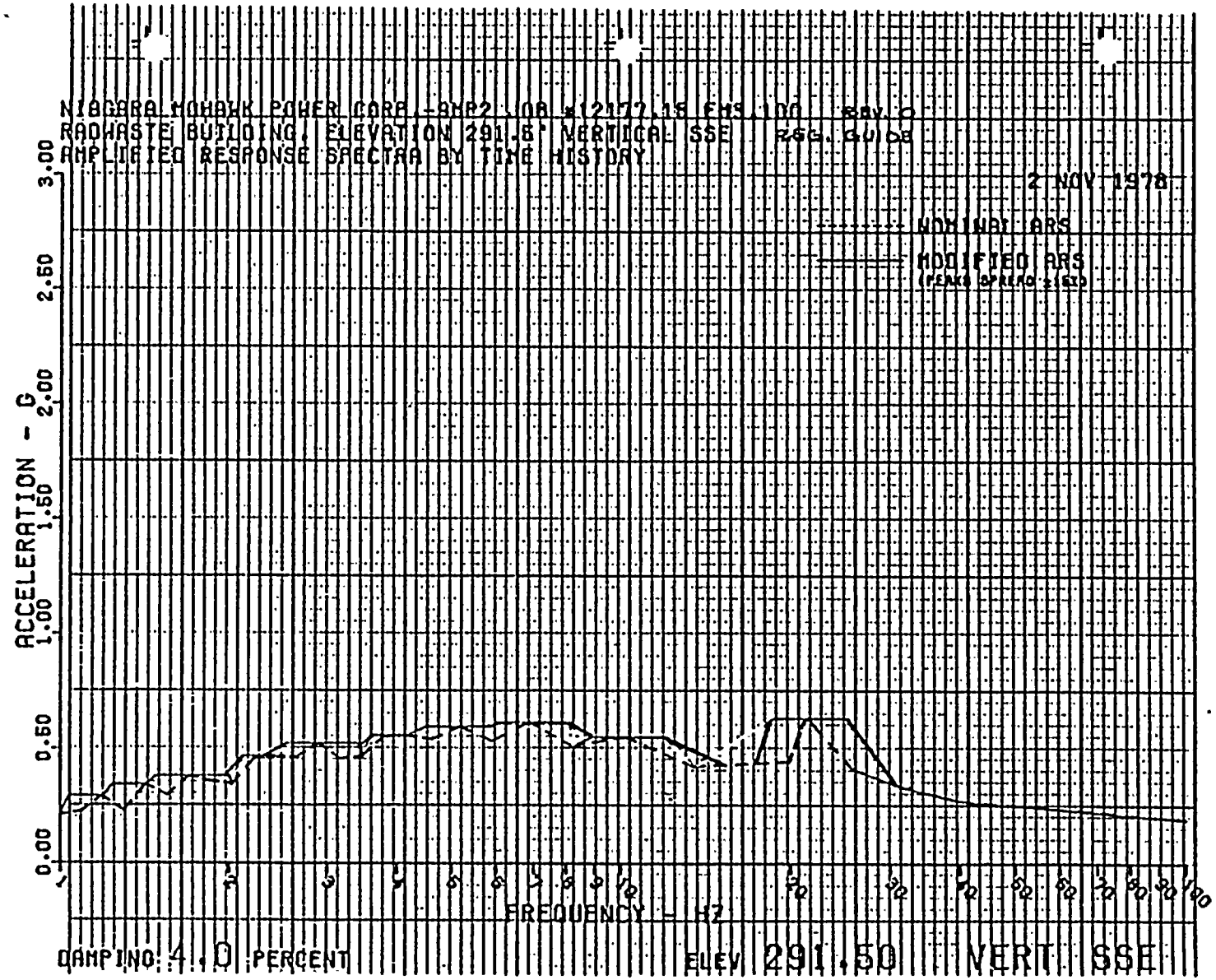
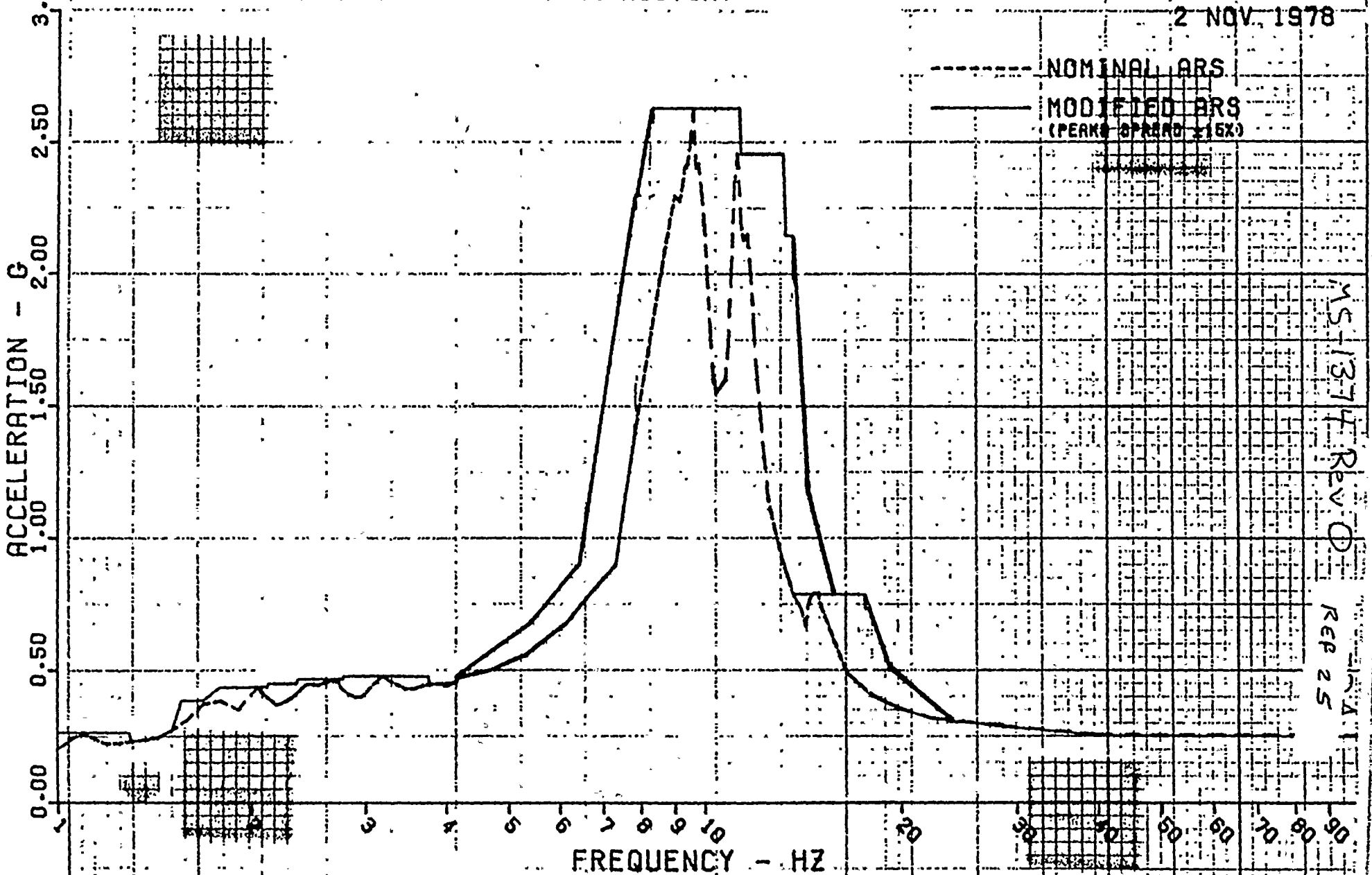


HS-1374 REV 0. REF 24
12177

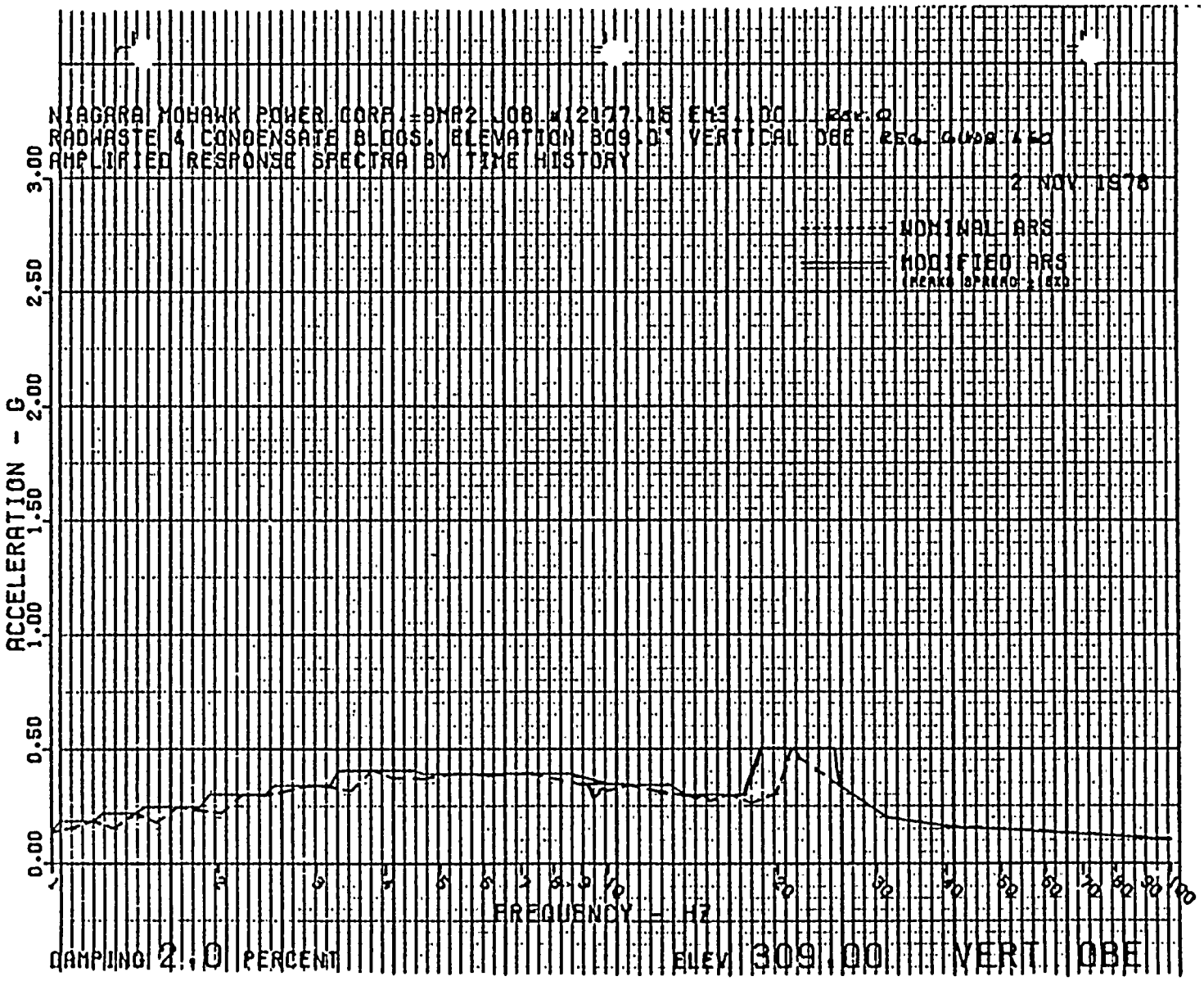
NIAGARA MOHAWK POWER CORP.-9MP2 JOB #12177.15 EM3.100 REV. 0
RADWASTE & CONDENSATE BLDGS. ELEVATION 309.0' HOR OBE REG. GUIDE 1.60
AMPLIFIED RESPONSE SPECTRA BY TIME HISTORY

2 NOV. 1978

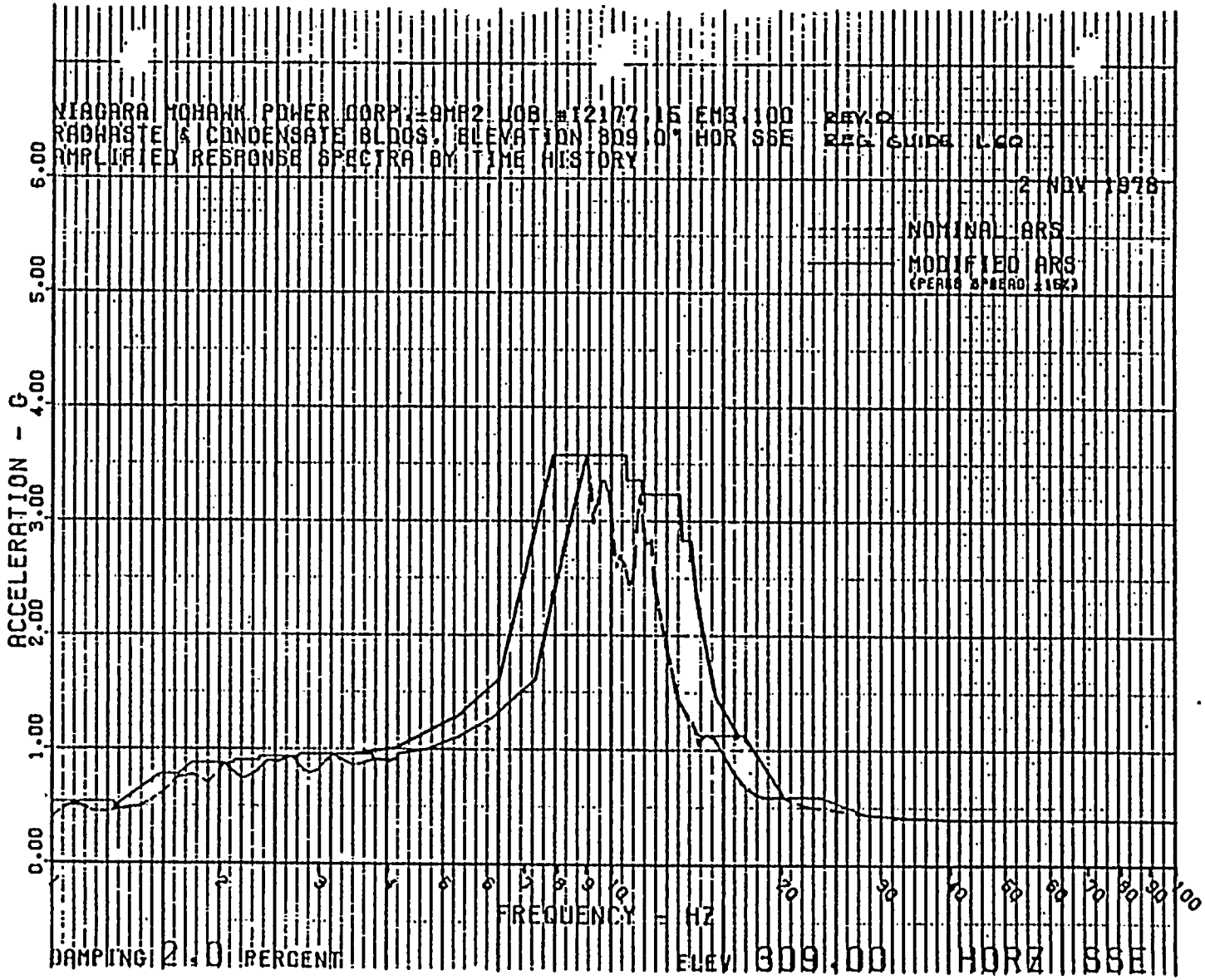


DAMPING 2.0 PERCENT ELEV 309.00 HORZ OBE

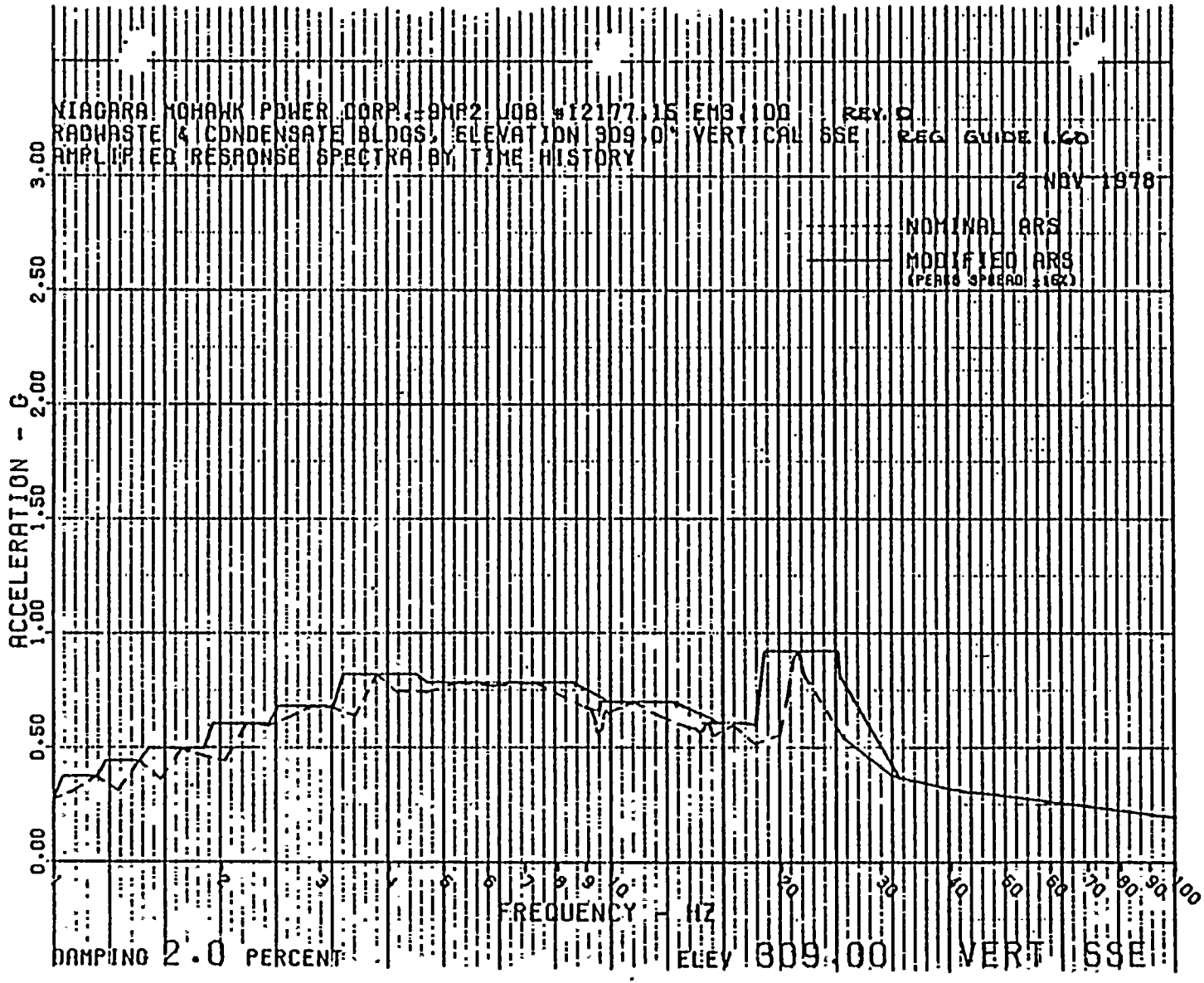
YS-1374 Rev 0
REF 25



NS-1374 REV 0 REF 25
12177



MS-1374 REV 0 REF 25
12/77



MS-1374 REV 0 REF 25
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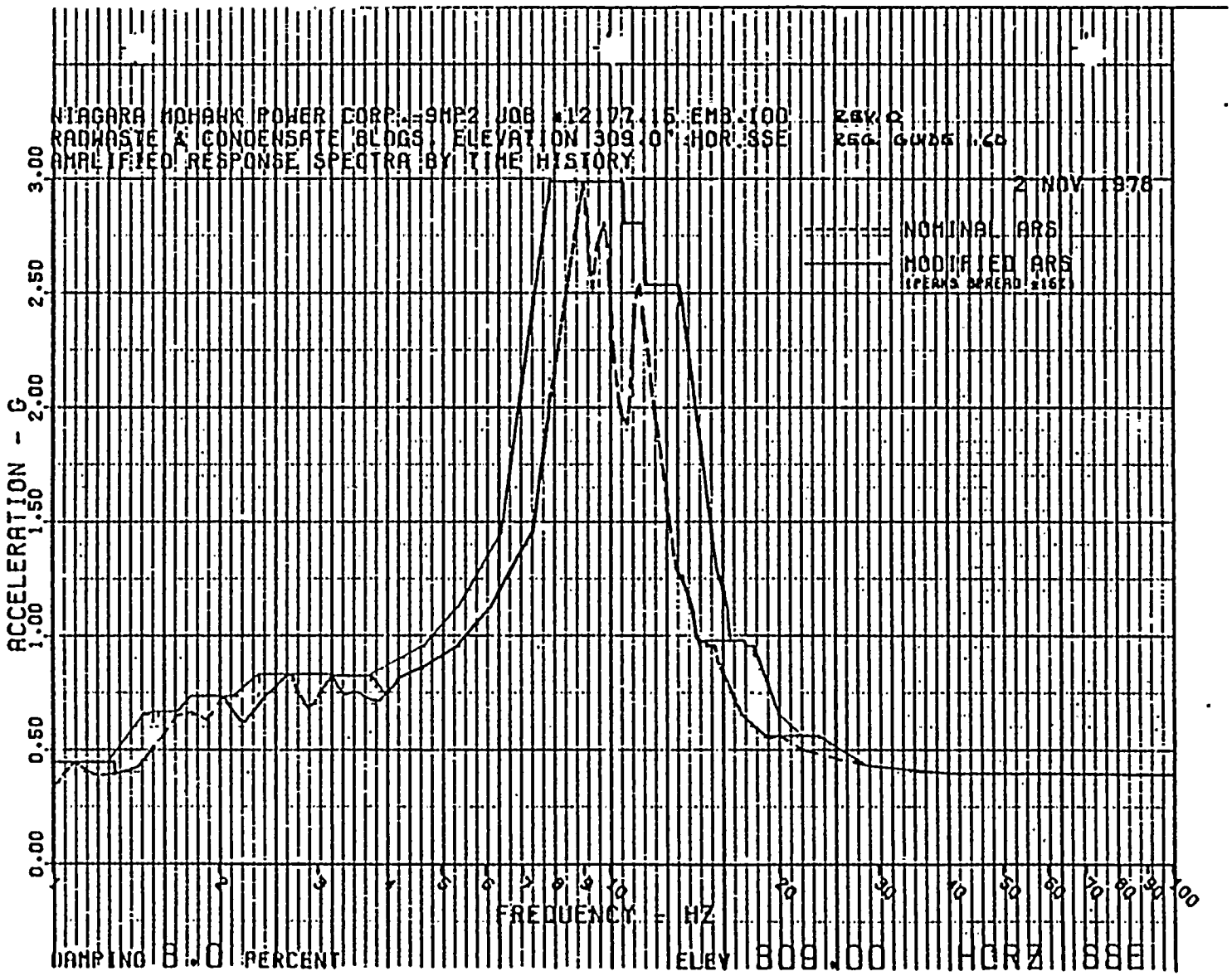

MS-1374 REV 0 REF 25
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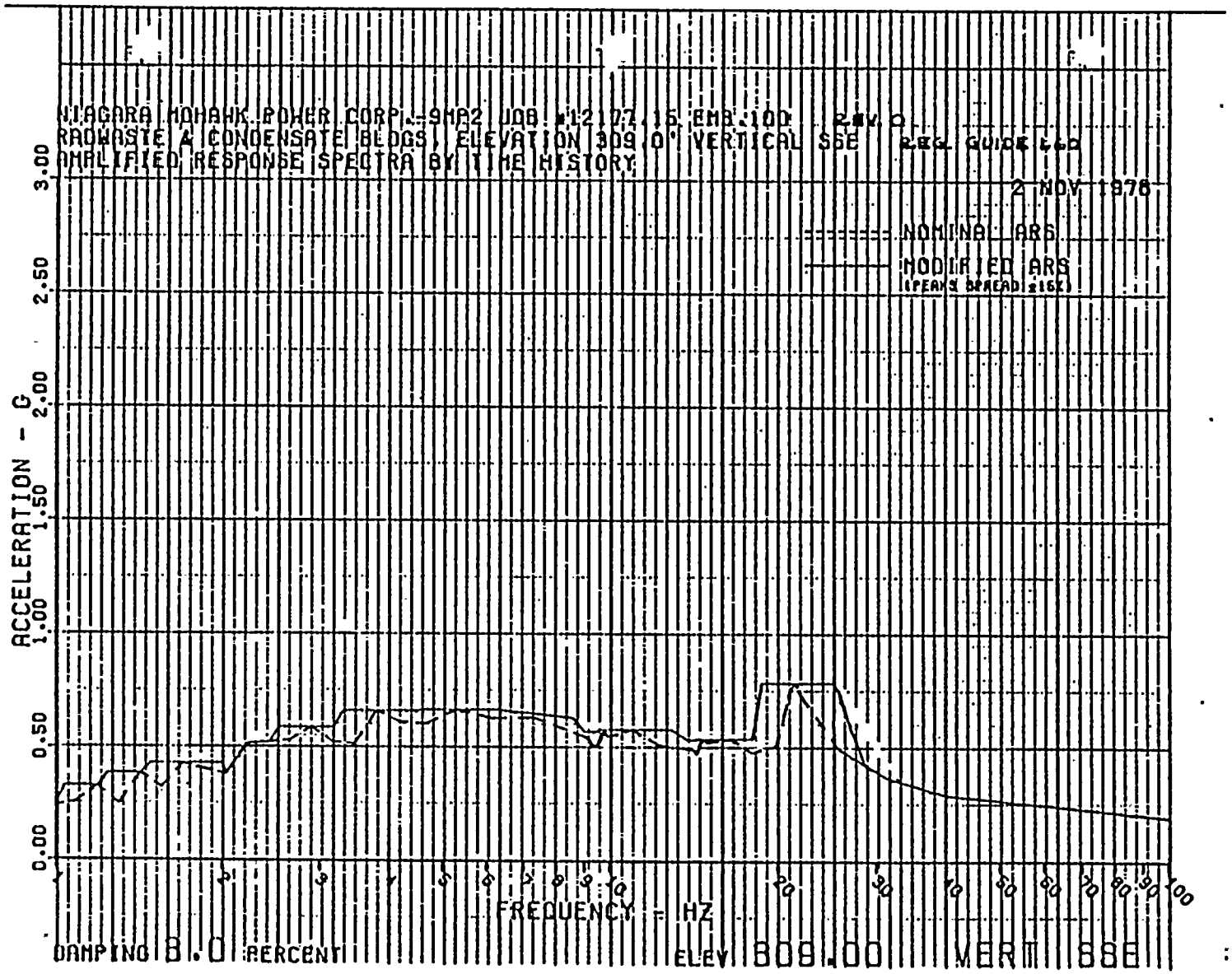
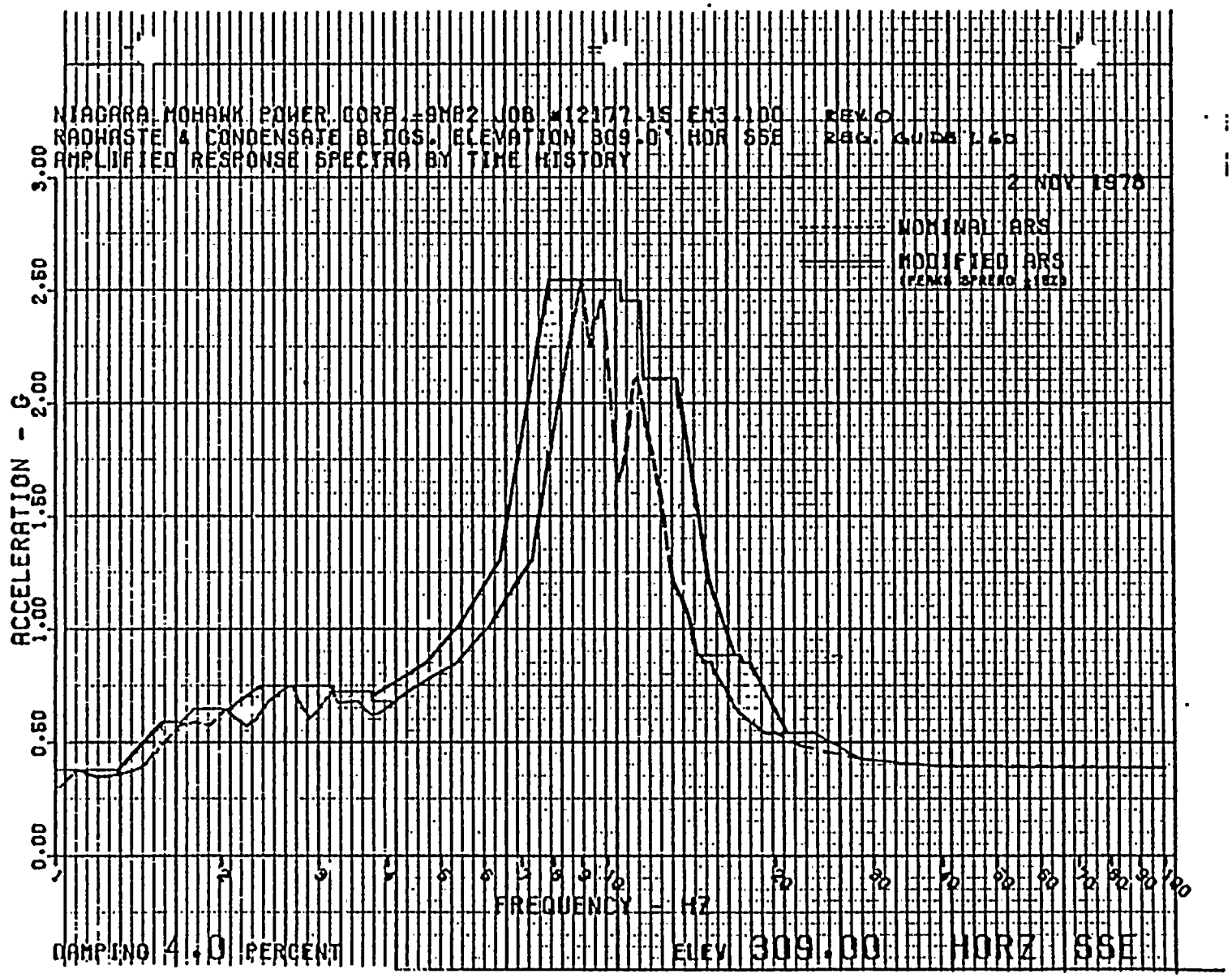


HS-1374 REV 0 REF 25
12/77



HS-1374 REV 0 REF 25
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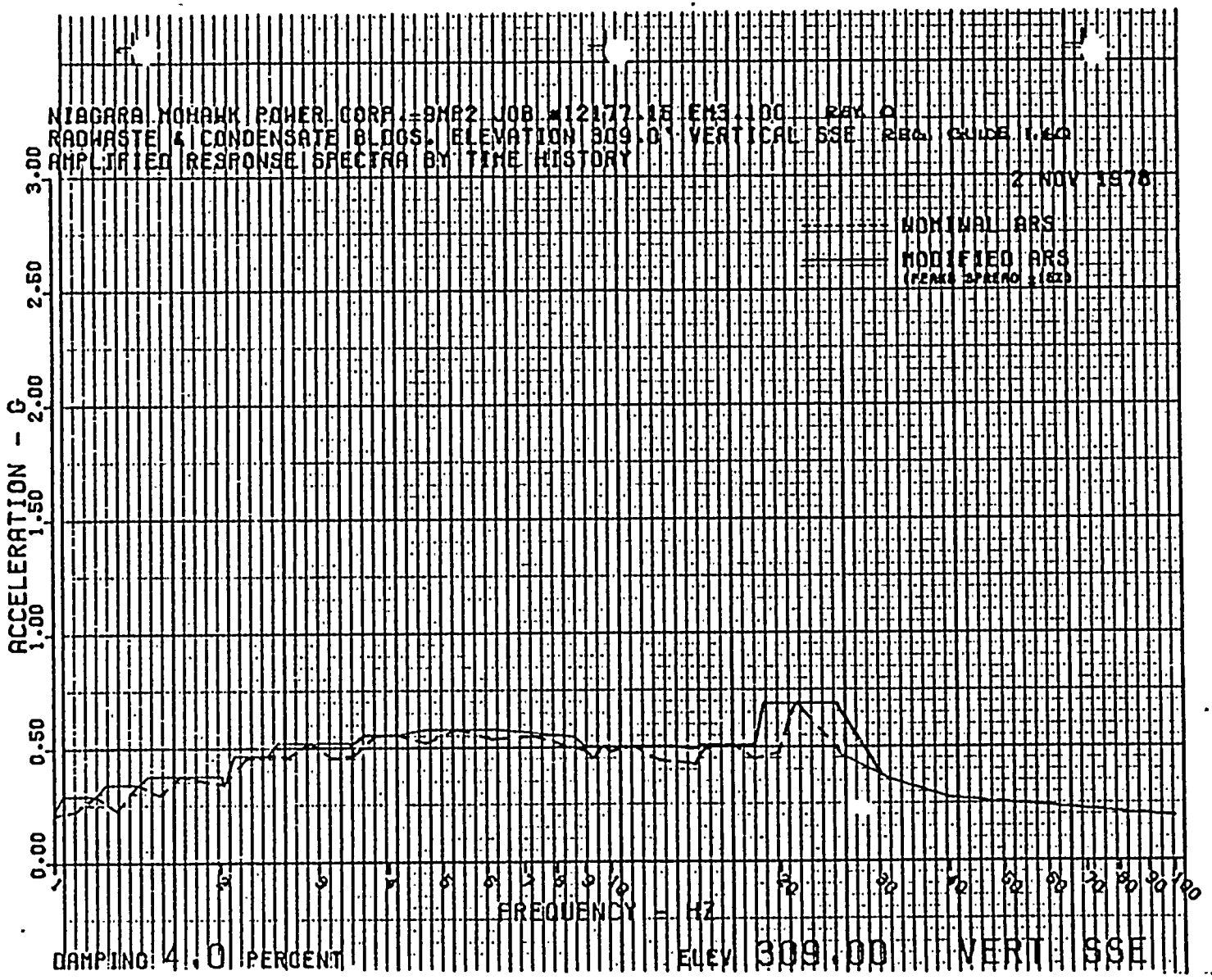
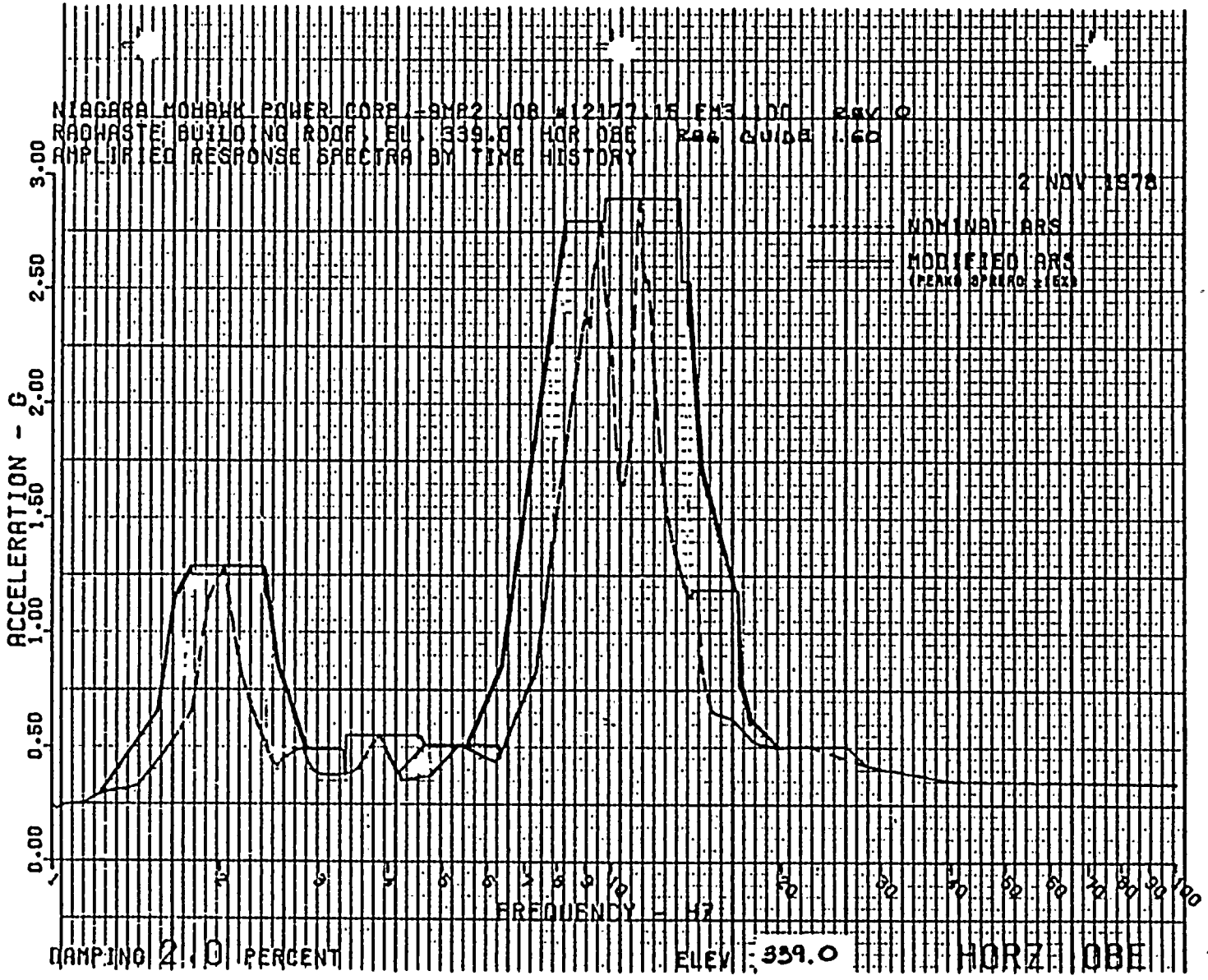
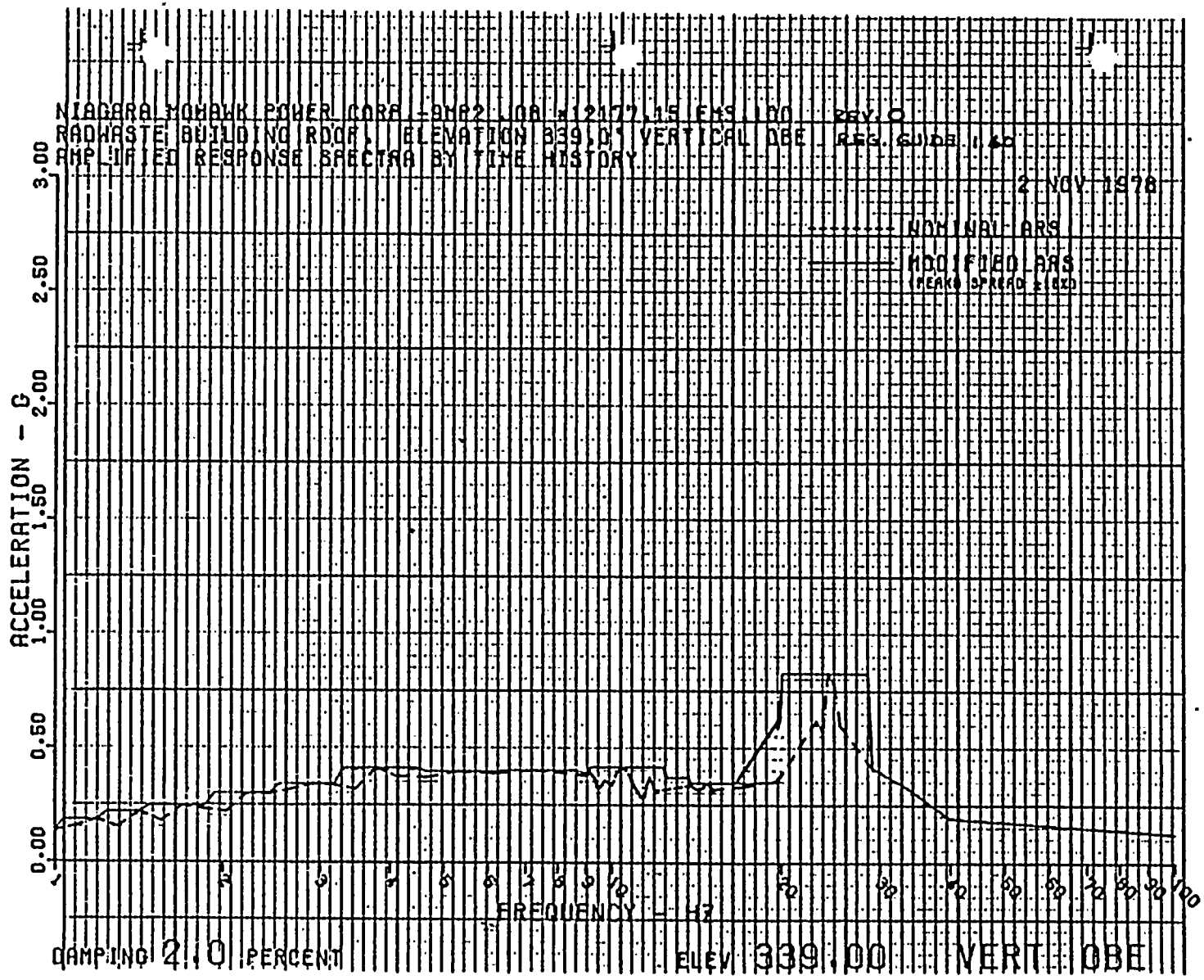


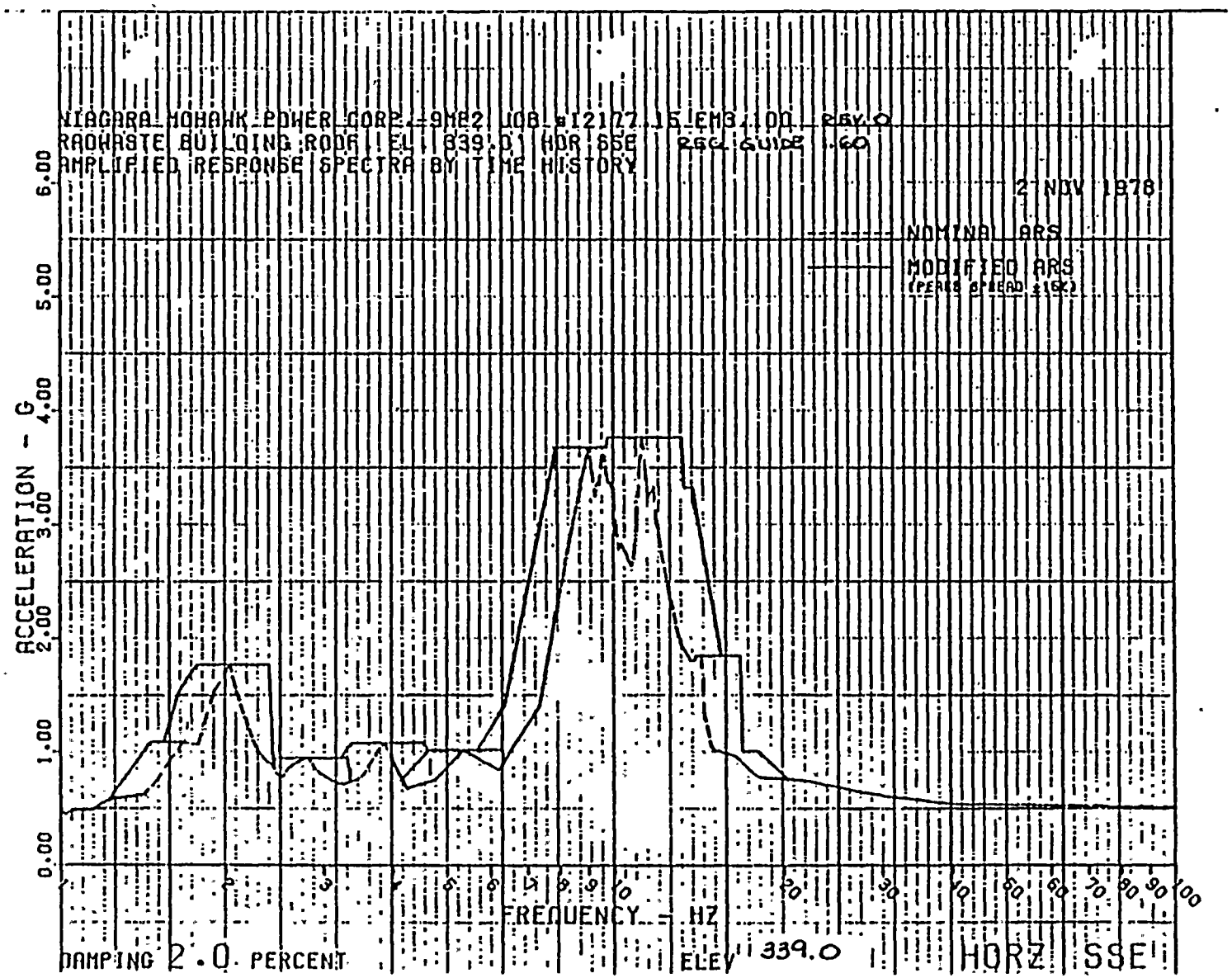
MS-1374 REV 0 REF 25
M174



MS- 1374 REV 0 REF 26
12177



NS-1374 REV 0 REF 26
12177



MS-1374 REV 0 REF 26
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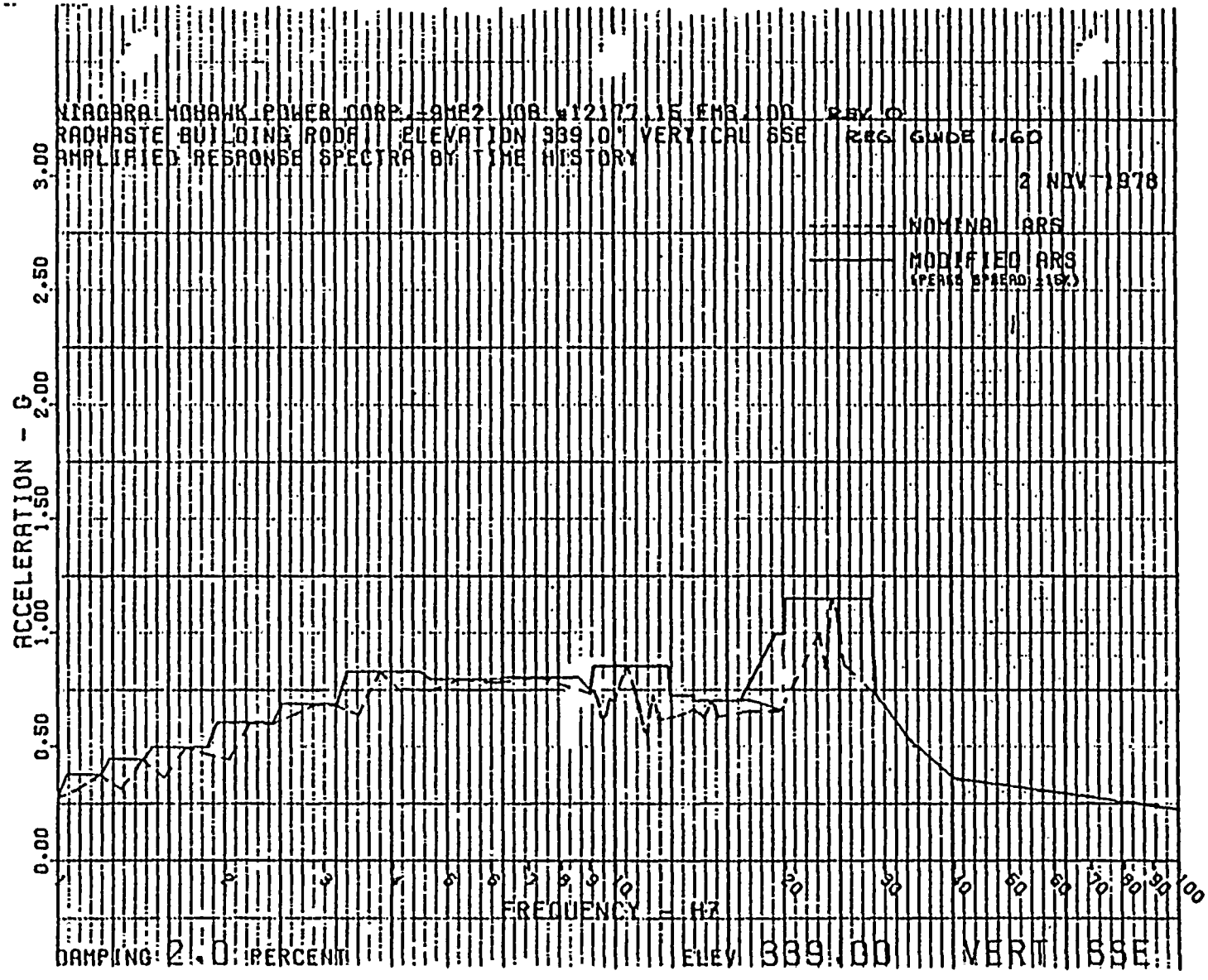

NS-1374 REV 0 REF 26
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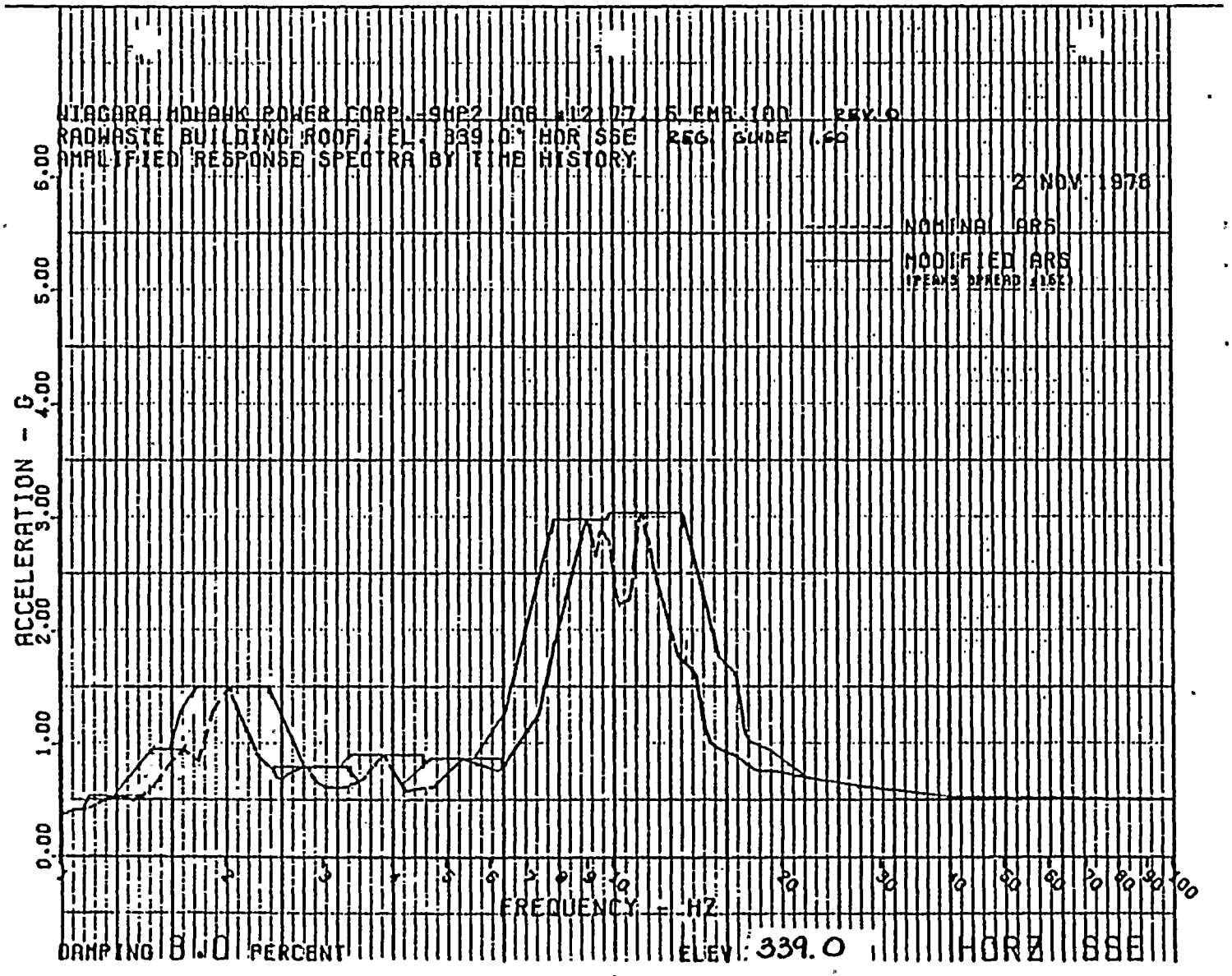

MS-1374 REV 0 REF 26
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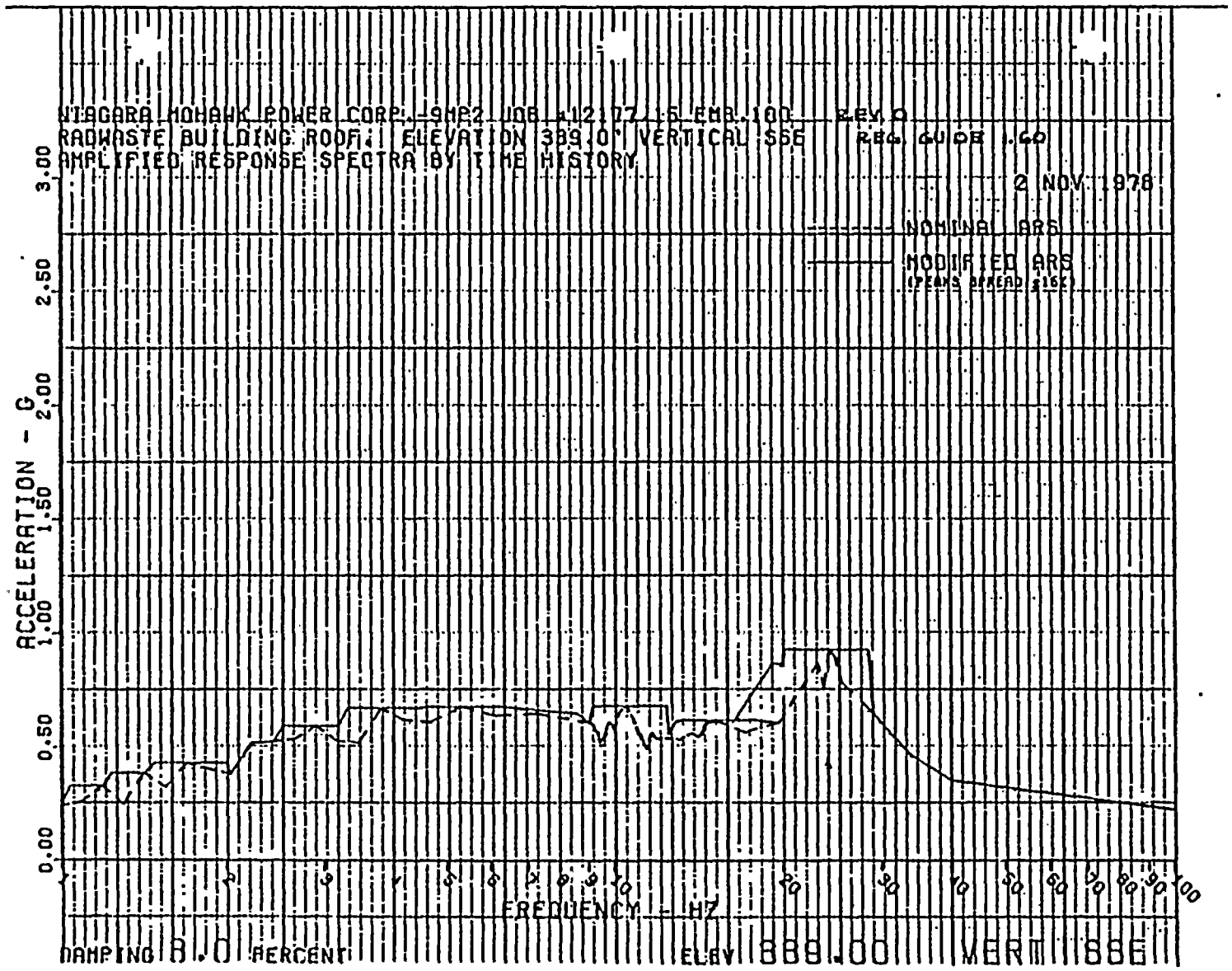

MS-1374 REV 0 REF 26
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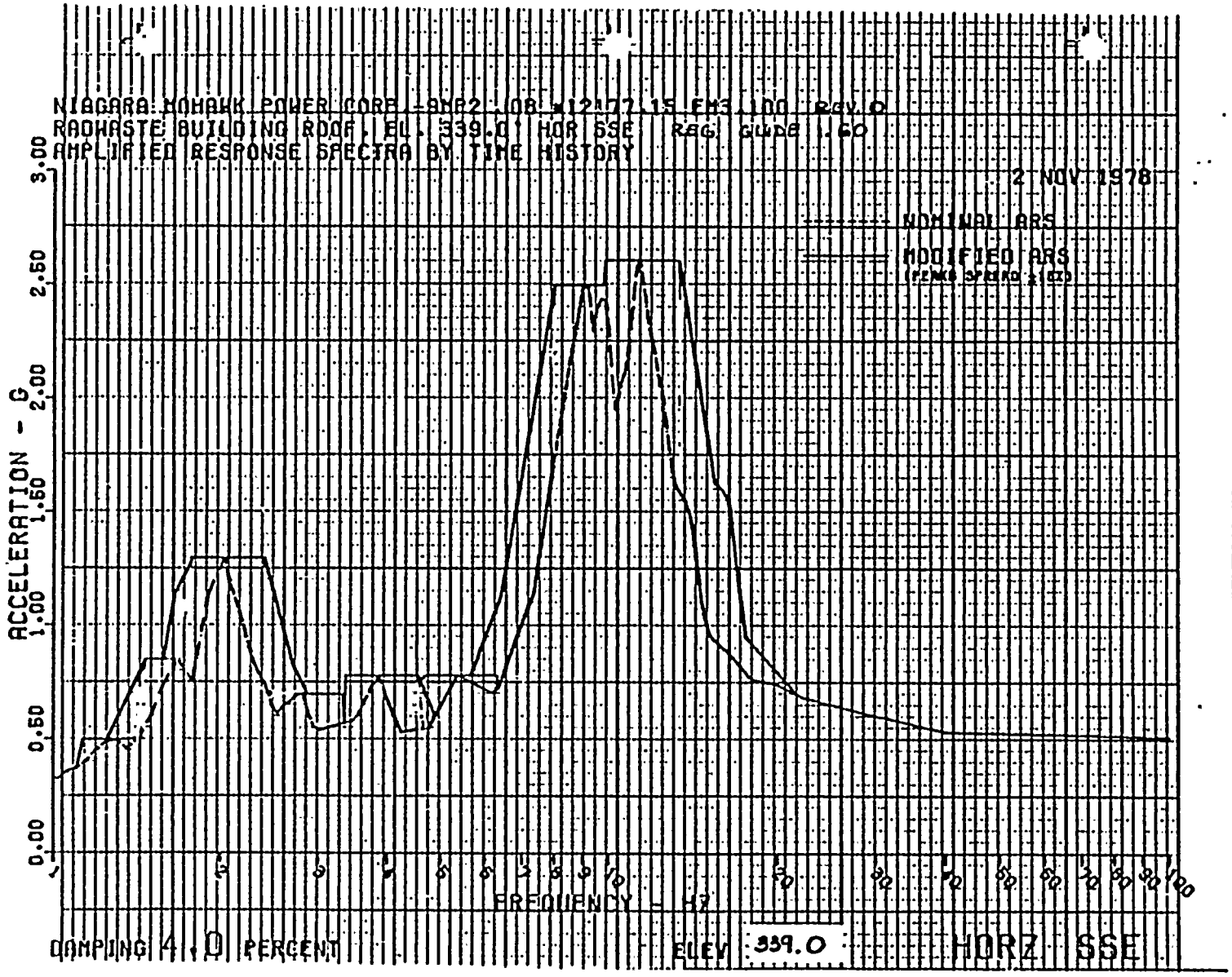
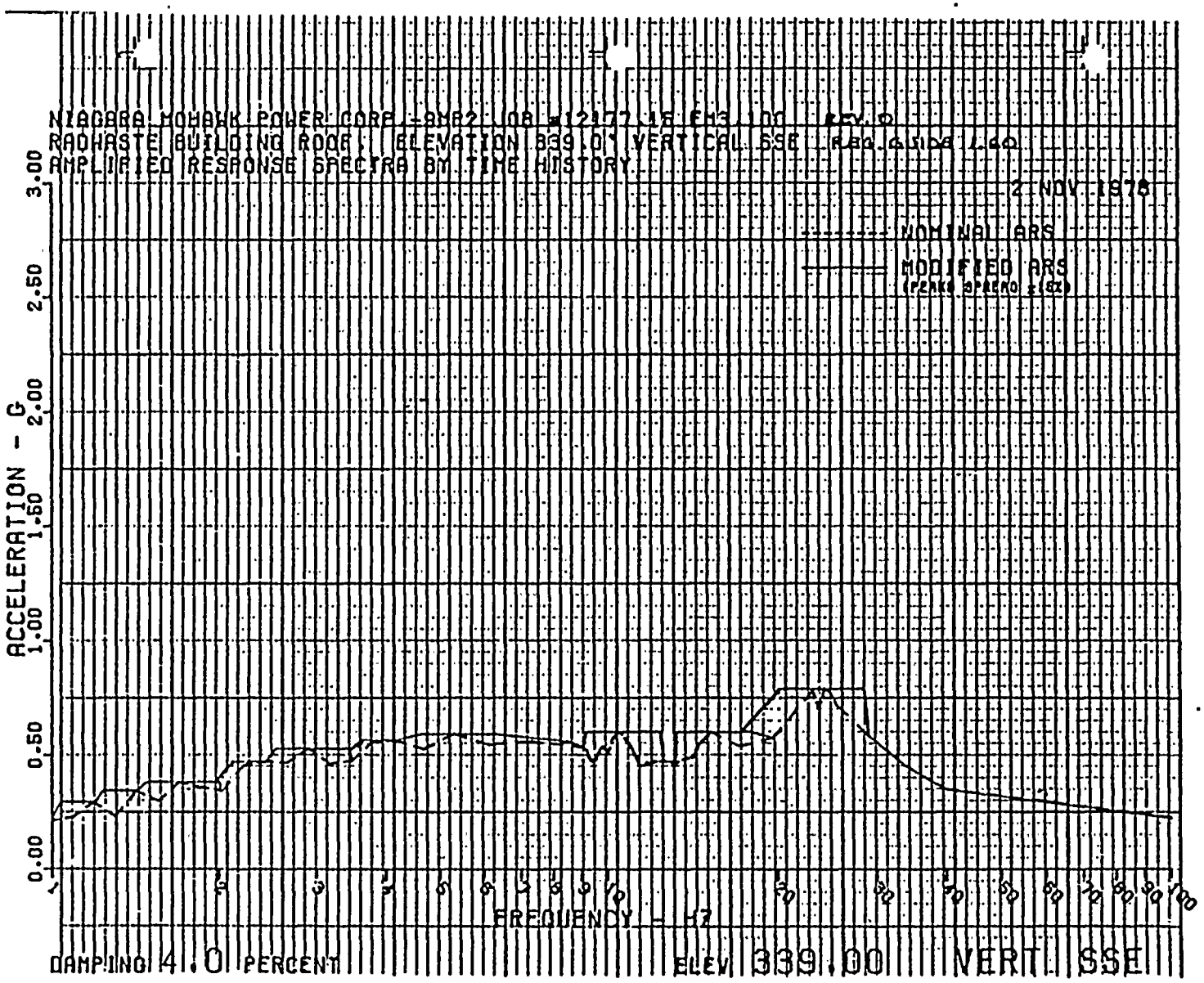


MS-1374 REV 0 REF 26
12177



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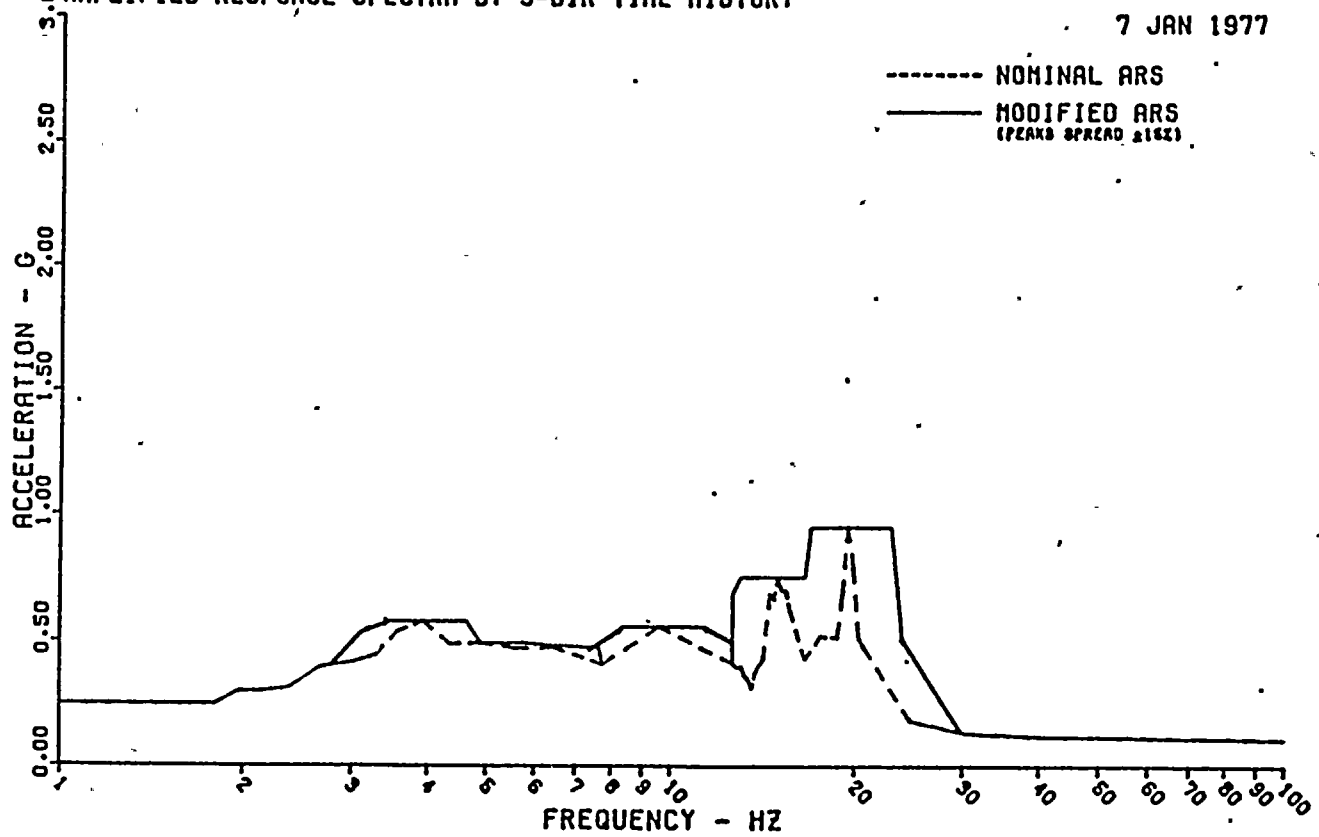
12/77

NIAGARA MOHAWK - NINE MILE 2 - J.O. 12177 - BOOK 019 - REG GUIDE 1.60 REV.1
TURBINE SUPPORT ELEV 274.5 LINES 4-5 VERTICAL OBE
AMPLIFIED RESPONSE SPECTRA BY 3-DIR TIME HISTORY

7 JAN 1977

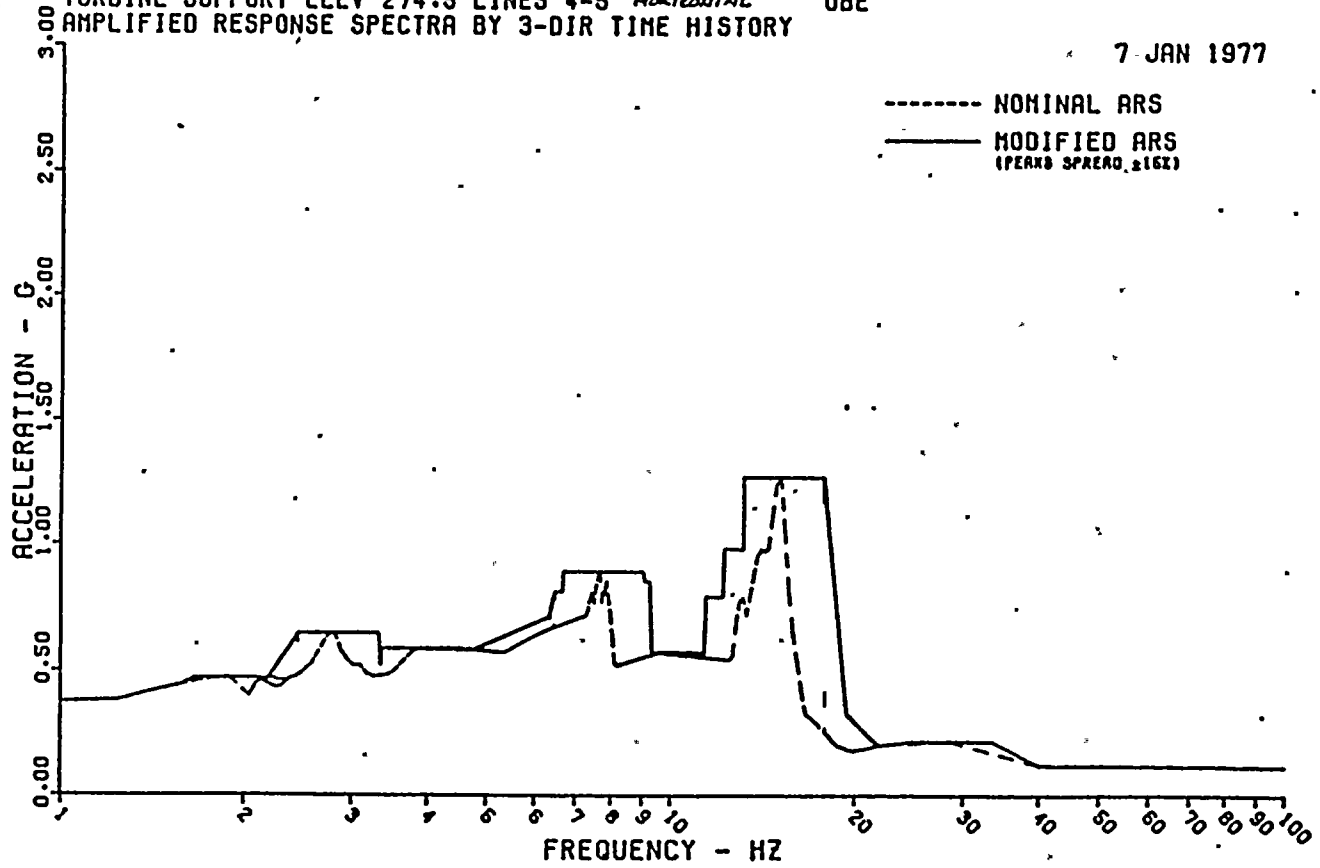


DAMPING 1.0 PERCENT

--- ELEV 274.50 VERT OBE
LINES 4-5

MS1386 REV. 0 REF 27
J.O. 12177

NIAGARA MOHAWK - NINE MILE 2 - J.O. 12177 - BOOK 019 - REG GUIDE 1.60 REV.1
TURBINE SUPPORT ELEV 274.5 LINES 4-5 HORIZONTAL OBE
AMPLIFIED RESPONSE SPECTRA BY 3-DIR TIME HISTORY



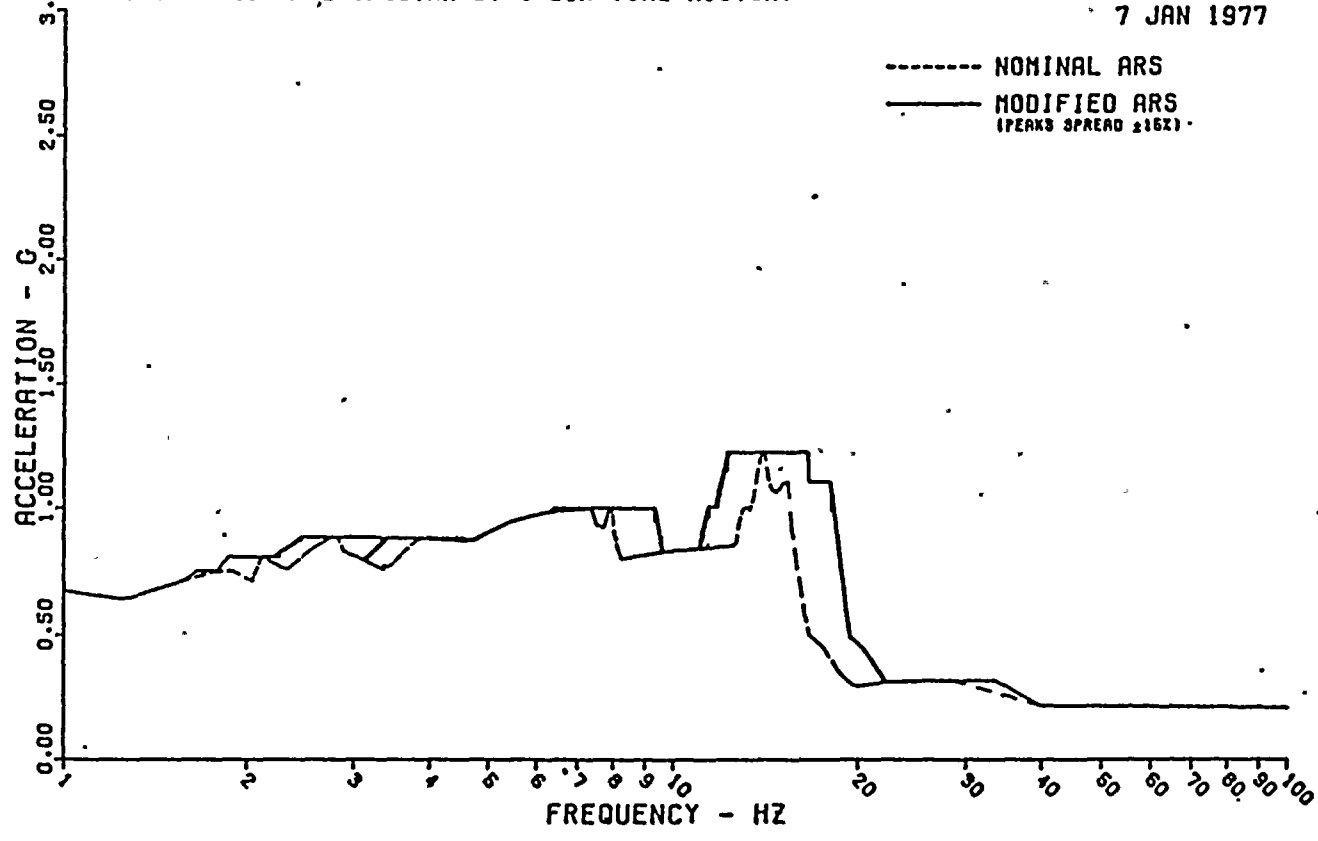
DAMPING 1.0 PERCENT

ELEV 274.50 HORZ OBE
LINES 4e5

MS1386 REV. 0 REF 27 J.O. 12177

NIAGARA MOHAWK - NINE MILE 2 - J.O. 12177 - BOOK 019 - REG GUIDE 1.60 REV.1
TURBINE SUPPORT ELEV 274.5 LINES 4-5 HORIZONTAL , SSE
AMPLIFIED RESPONSE SPECTRA BY 3-DIR TIME HISTORY

7 JAN 1977



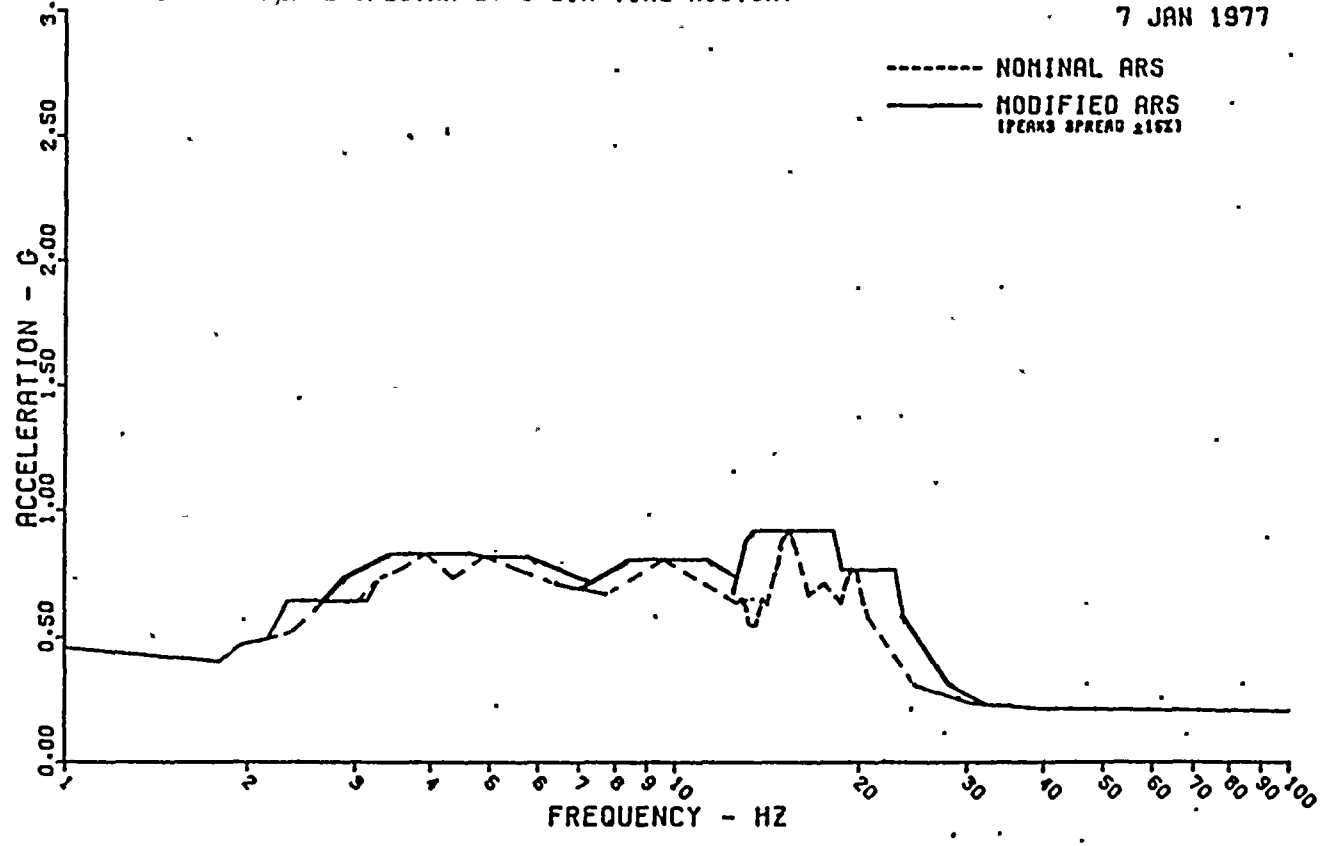
DAMPING 2.0 PERCENT

ELEV 274.50 HORZ SSE
LINES 4&5

MS1386 REV. 0 REF 27
J.O. 12177

NIAGARA MOHAWK - NINE MILE 2 - J.O. 12177 - BOOK 019 - REG GUIDE 1.60 REV. 1
TURBINE SUPPORT ELEV 274.5 LINES 4-5 VERTICAL SSE
AMPLIFIED RESPONSE SPECTRA BY 3-DIR TIME HISTORY

7 JAN 1977



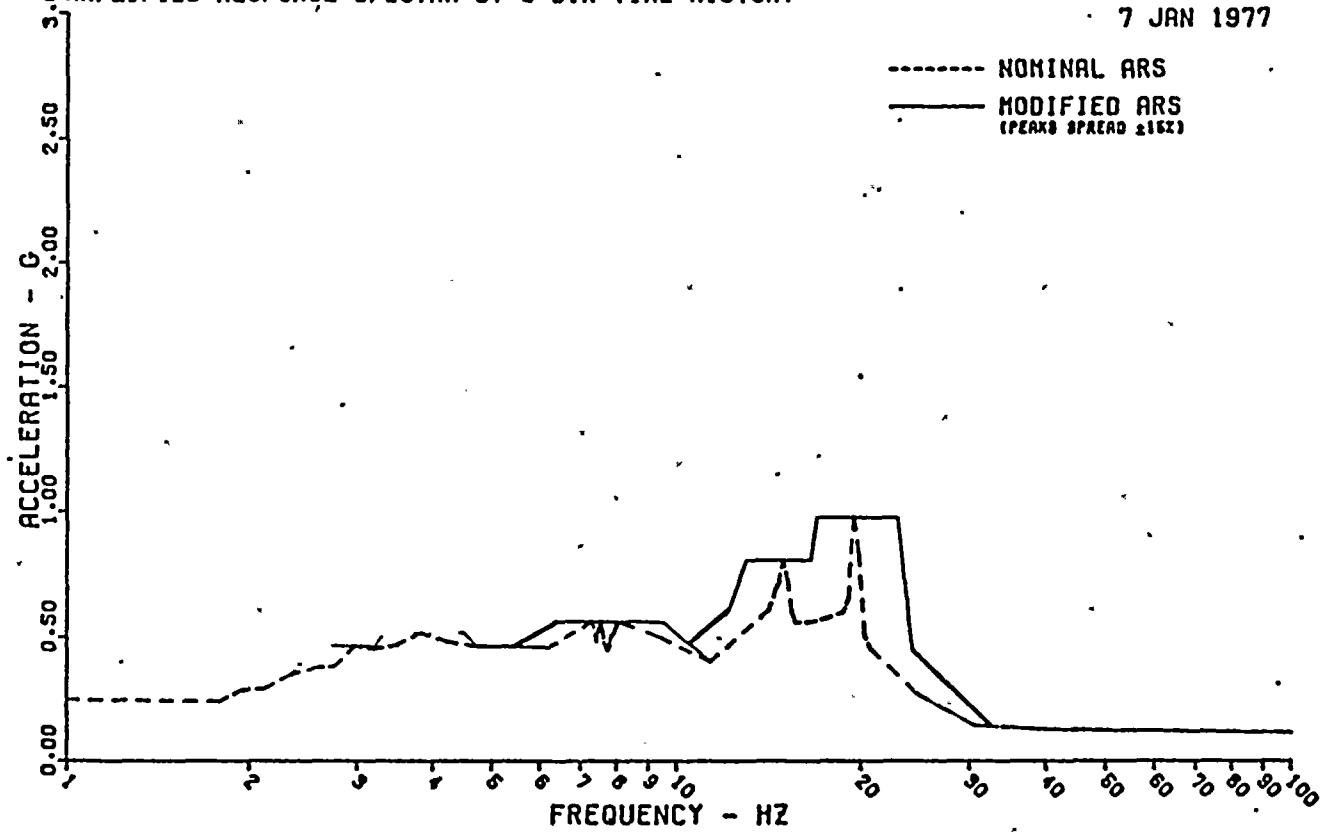
DAMPING 2.0 PERCENT

ELEV 274.50 VERT SSE
LINES 4-5

MS1386 REV. U REF 27
J.O. 12177

NIAGARA MOHAWK - NINE MILE 2 - J.O. 12177 - BOOK 019 - REG GUIDE 1.60 REV.1
TURBINE SUPPORT ELEV 274.5 LINES 9-10 VERTICAL OBE
AMPLIFIED RESPONSE SPECTRA BY 3-DIR TIME HISTORY

7 JAN 1977



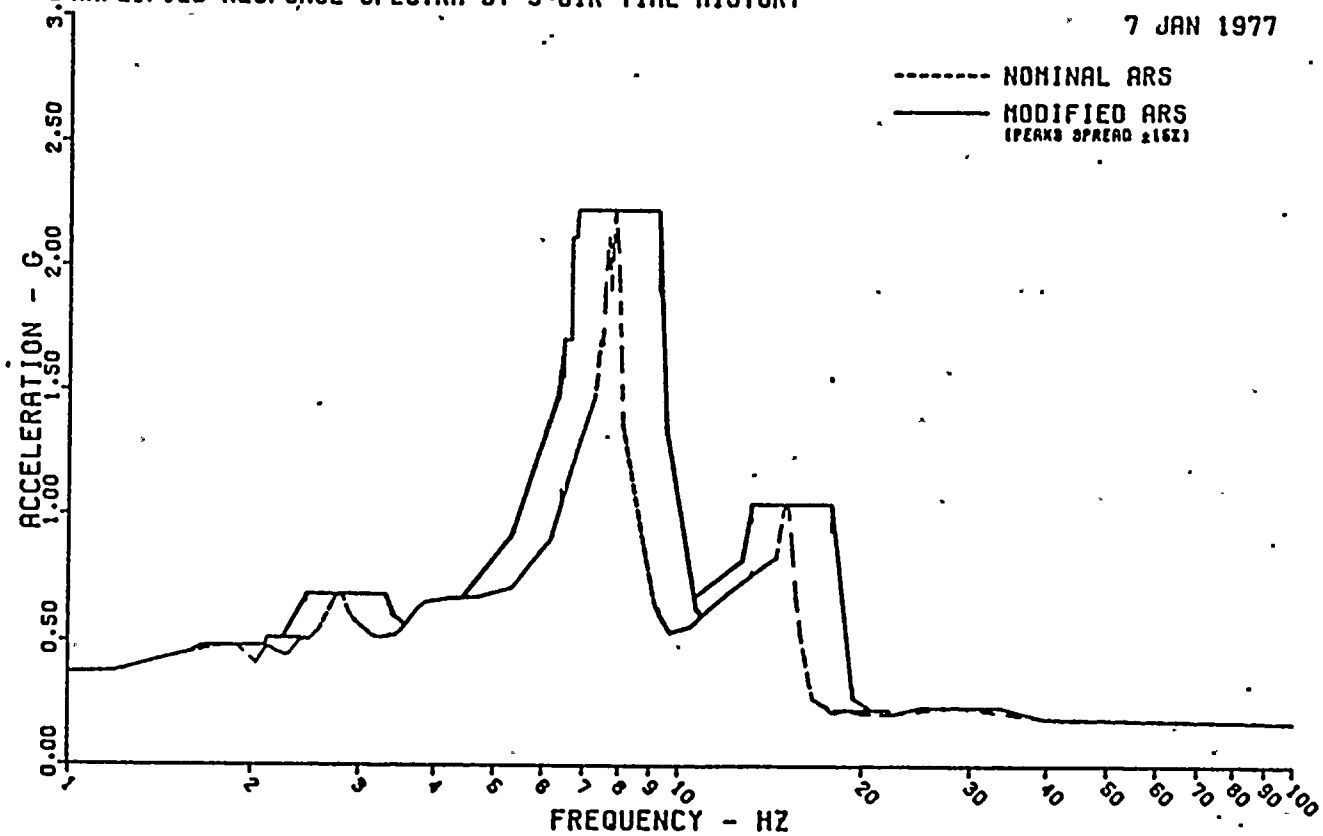
DAMPING 1.0 PERCENT

ELEV 274.50 VERT OBE
LINES 9-10

MS1386 REV. 0 REF 28 J.O. 12177

NIAGARA MOHAWK - NINE MILE 2 - J.O. 12177 - BOOK 019 - REG GUIDE 1.60 REV.1
TURBINE SUPPORT ELEV 274.5 LINES 9-10 HORIZONTAL OBE
AMPLIFIED RESPONSE SPECTRA BY 3-DIR TIME HISTORY

7 JAN 1977



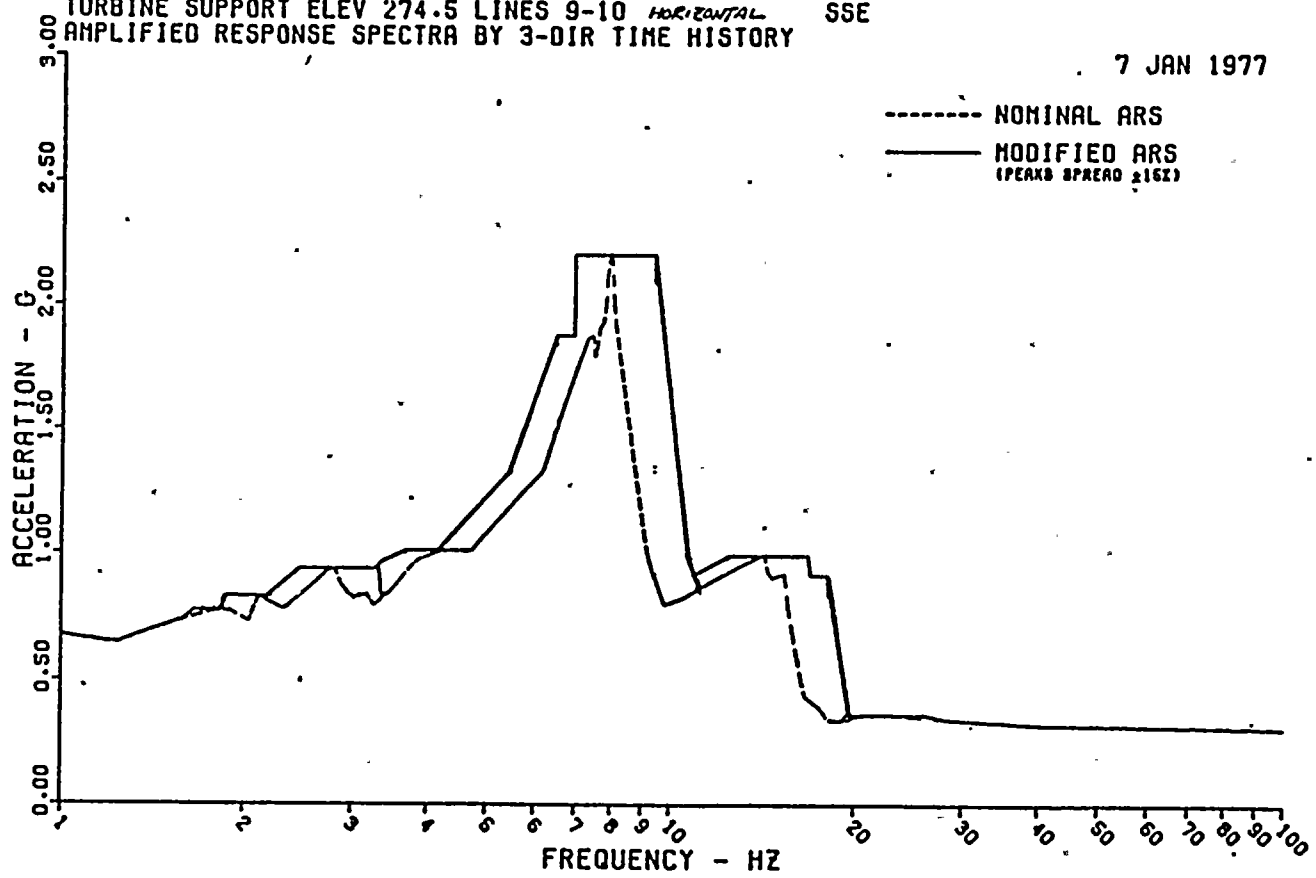
DAMPING 1.0 PERCENT

ELEV 274.50 HORZ OBE
LINES 9-10

MS1386 REV. 0 REF 28 J.O. 12177

NIAGARA MOHAWK - NINE MILE 2 - J.O. 12177 - BOOK 019 - REG GUIDE 1.60 REV.1
TURBINE SUPPORT ELEV 274.5 LINES 9-10 HORIZONTAL SSE
AMPLIFIED RESPONSE SPECTRA BY 3-DIR TIME HISTORY

7 JAN 1977



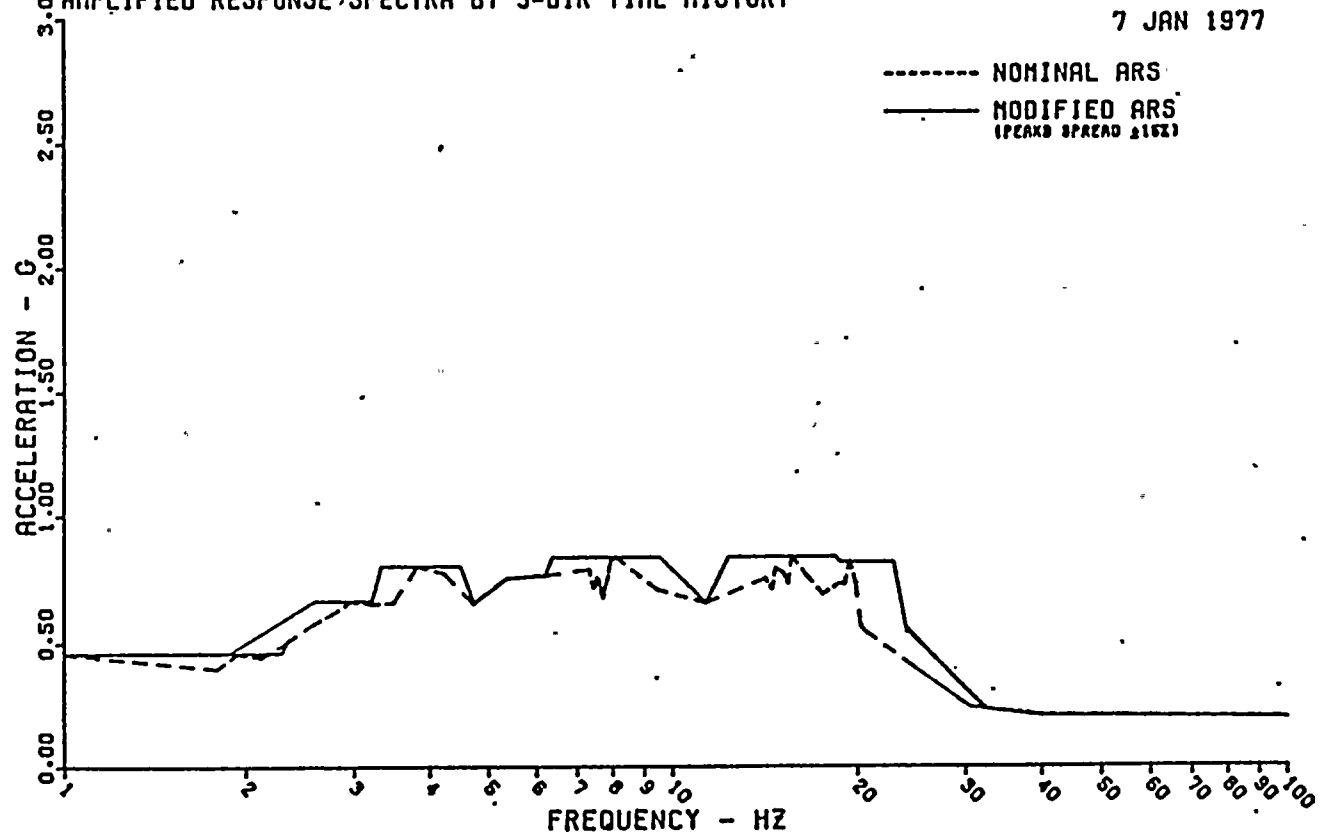
DAMPING 2.0 PERCENT

ELEV 274.50 HORZ SSE
LINES 9-10

MS1386 REV. 0. REF 28
J.O. 12177

NIAGARA MOHAWK - NINE MILE 2 - J.O. 12177 - BOOK 019 - REG GUIDE 1.60 REV.1
TURBINE SUPPORT ELEV 274.5 LINES 9-10 VERTICAL SSE
AMPLIFIED RESPONSE SPECTRA BY 3-DIR TIME HISTORY

7 JAN 1977



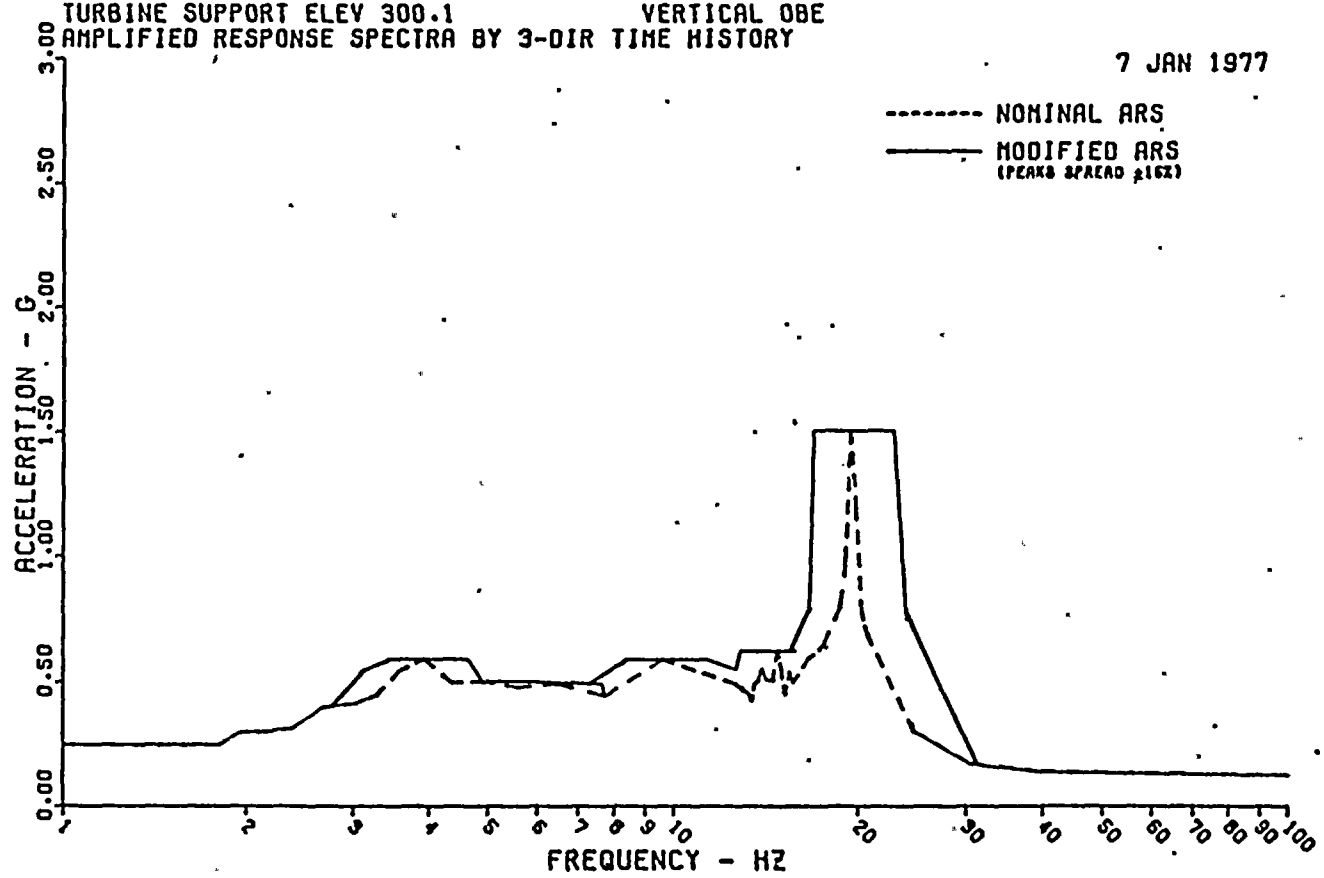
DAMPING 2.0 PERCENT

ELEV 274.50 VERT SSE
LINES 9 & 10

MS1386 REV. 0 REF 28 J.O. 12177

NIAGARA MOHAWK - NINE MILE 2 - J.O. 12177 - BOOK 019 - REG GUIDE 1.60 REV.1
TURBINE SUPPORT ELEV 300.1 VERTICAL OBE
AMPLIFIED RESPONSE SPECTRA BY 3-DIR TIME HISTORY

7 JAN 1977



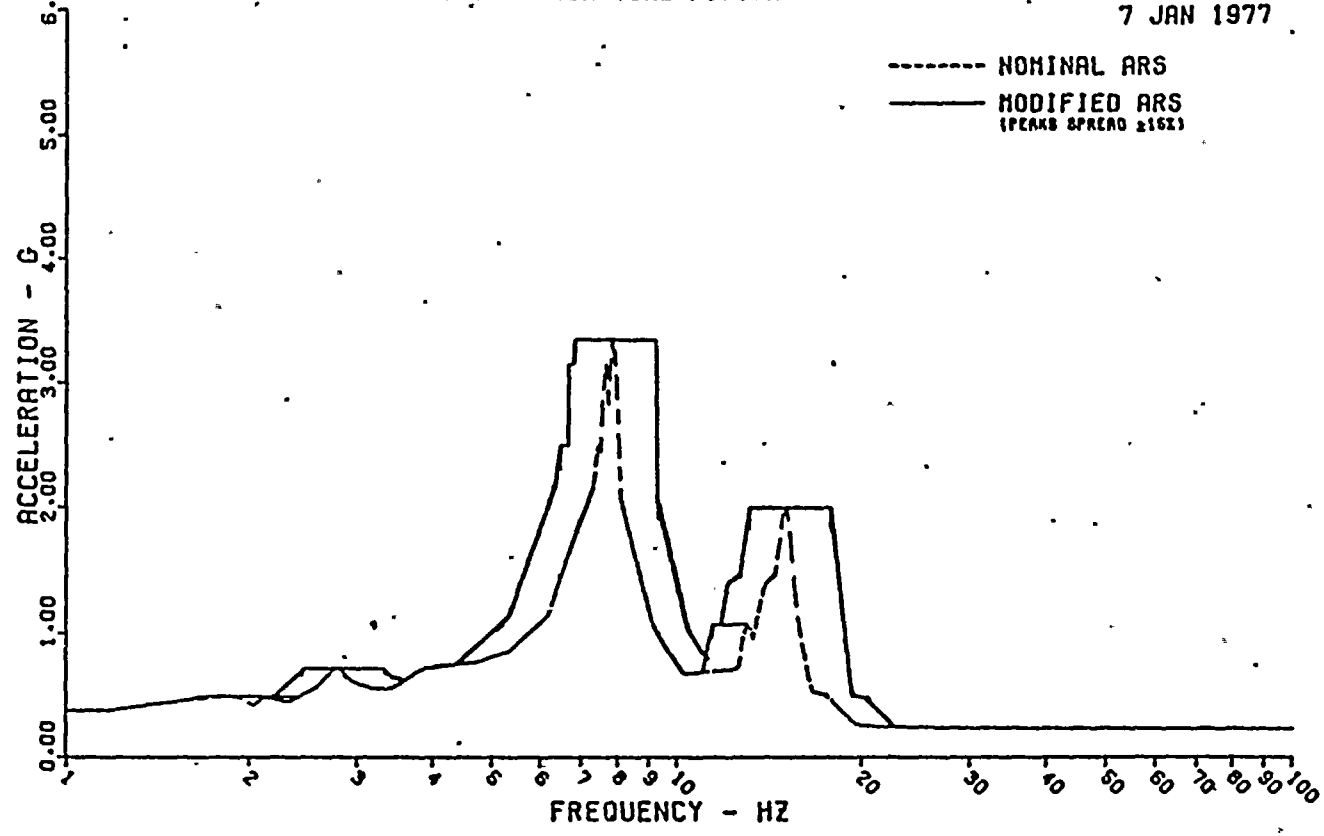
DAMPING 1.0 PERCENT ELEV 300.10 VERT OBE

MS1386 REV. 0 REF 29

J.O.12177

NIAGARA MOHAWK - NINE MILE 2 - J.O. 12177 - BOOK 019 - REG GUIDE 1.60 REV.1
TURBINE SUPPORT ELEV 300.1 HORIZONTAL OBE
AMPLIFIED RESPONSE SPECTRA BY 3-DIR TIME HISTORY

7 JAN 1977



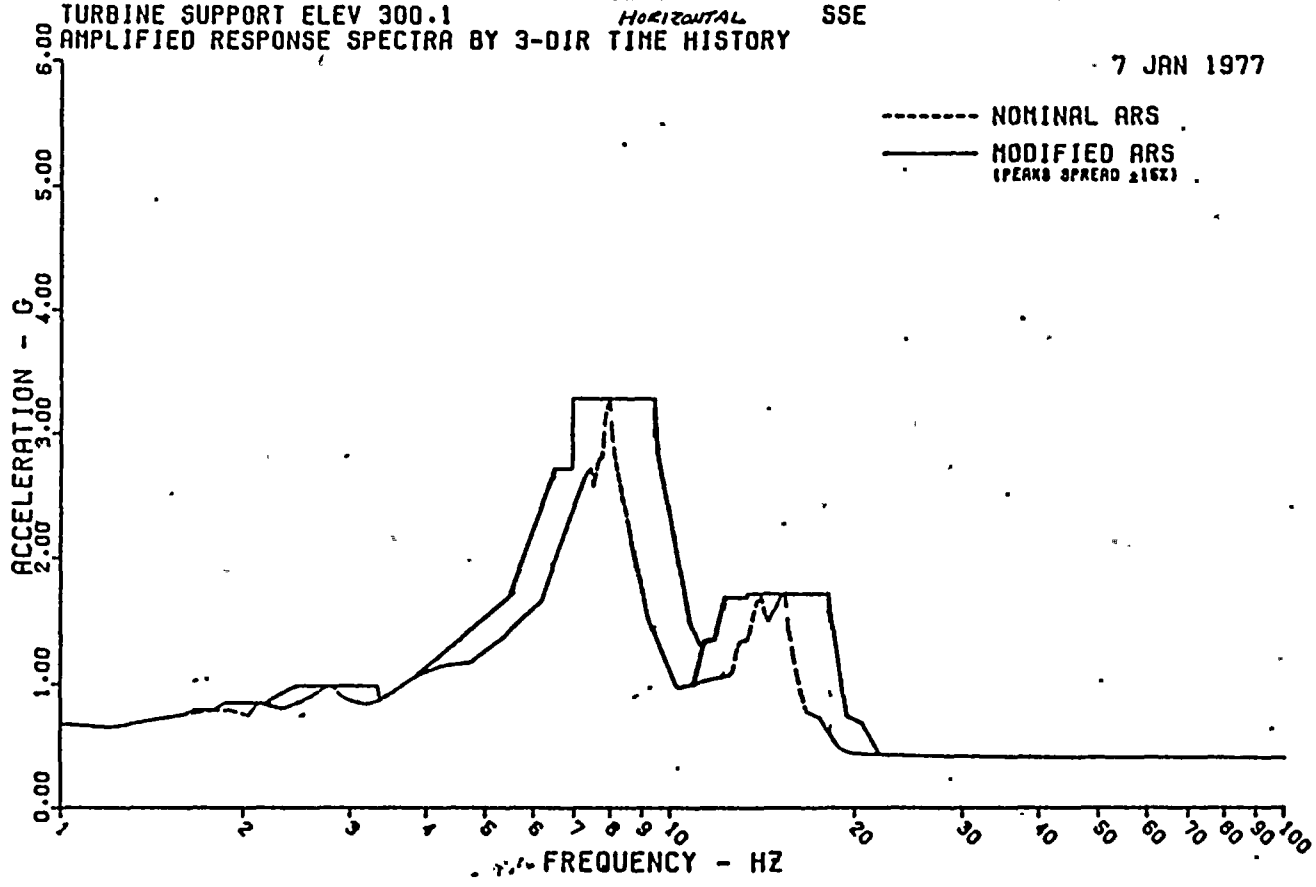
DAMPING 1.0 PERCENT ELEV 300.10 HORZ OBE

MS1386 REV. 1 REF 29

J.O. 12177

NIAGARA MOHAWK - NINE MILE 2 - J.O. 12177 - BOOK 019 - REG GUIDE 1.60 REV.1.
TURBINE SUPPORT ELEV 300.1 HORIZONTAL SSE
AMPLIFIED RESPONSE SPECTRA BY 3-DIR TIME HISTORY

7 JAN 1977



DAMPING 2.0 PERCENT

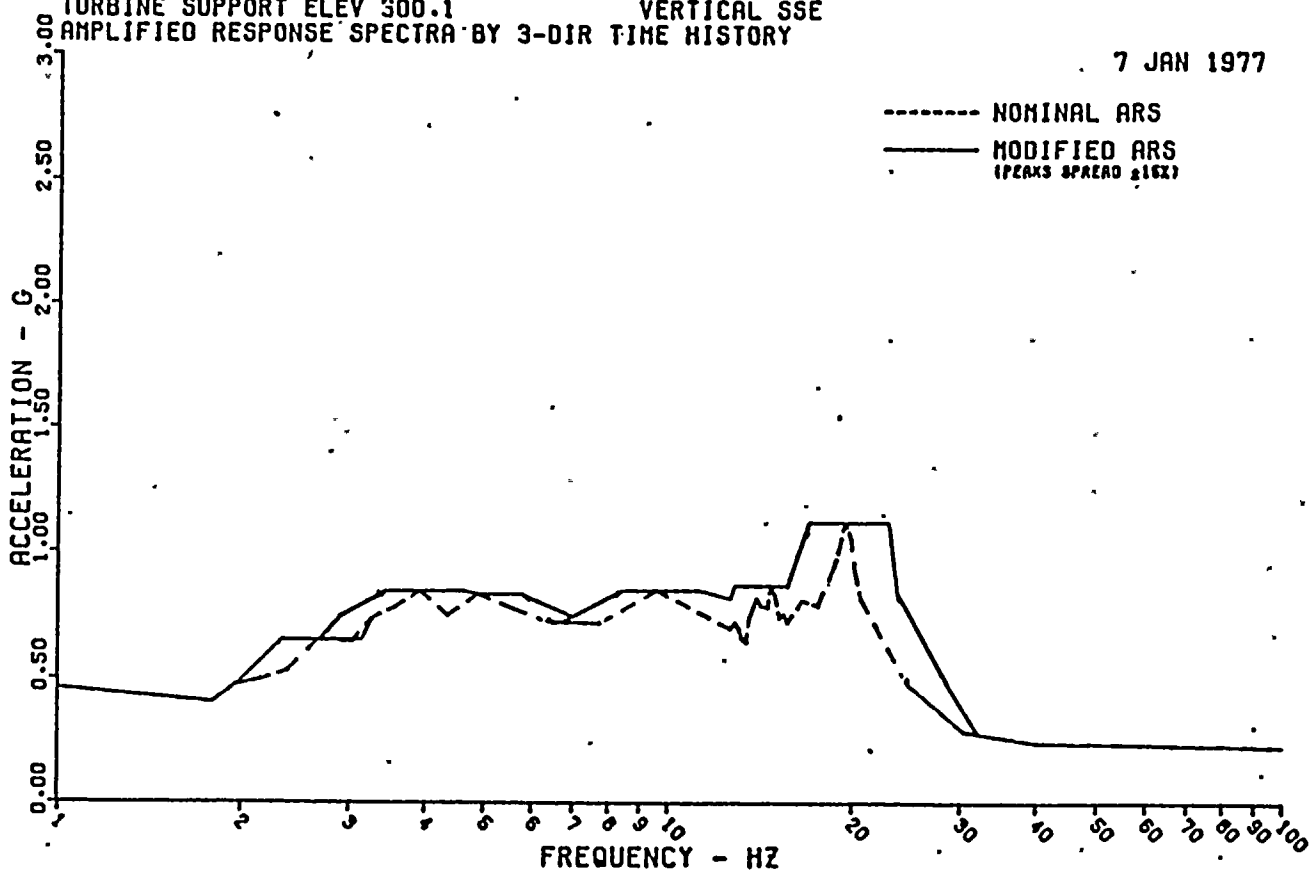
ELEV 300.10 HORZ SSE

MS1386 REV. 1 REF 29

J.O. 12177

NIAGARA MOHAWK - NINE MILE 2 - J.O. 12177 - BOOK 019 - REG GUIDE 1.60 REV. 1
TURBINE SUPPORT ELEV 300.1 VERTICAL SSE
AMPLIFIED RESPONSE SPECTRA BY 3-DIR TIME HISTORY

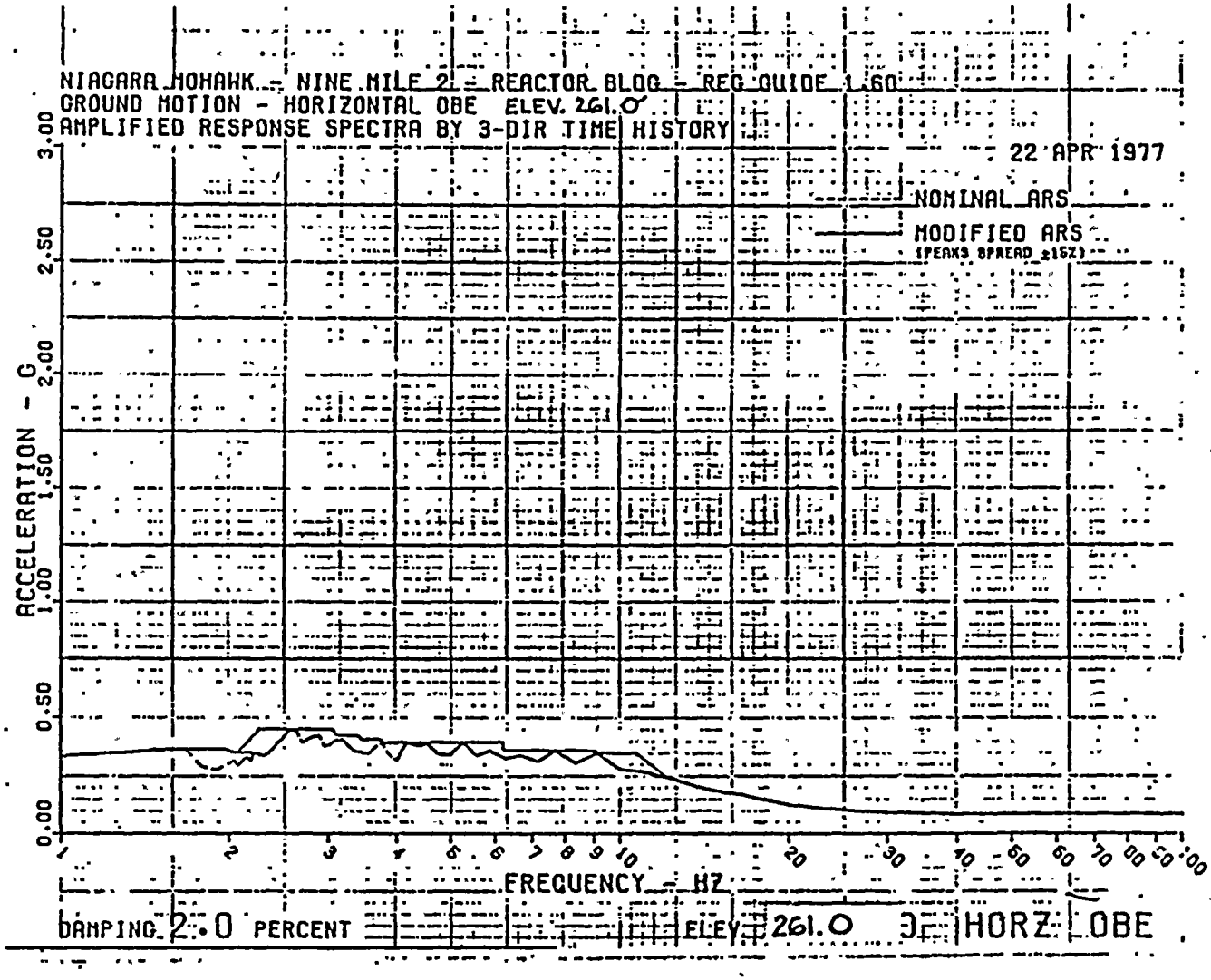
7 JAN 1977



DAMPING 2.0 PERCENT ELEV 300.10 VERT SSE

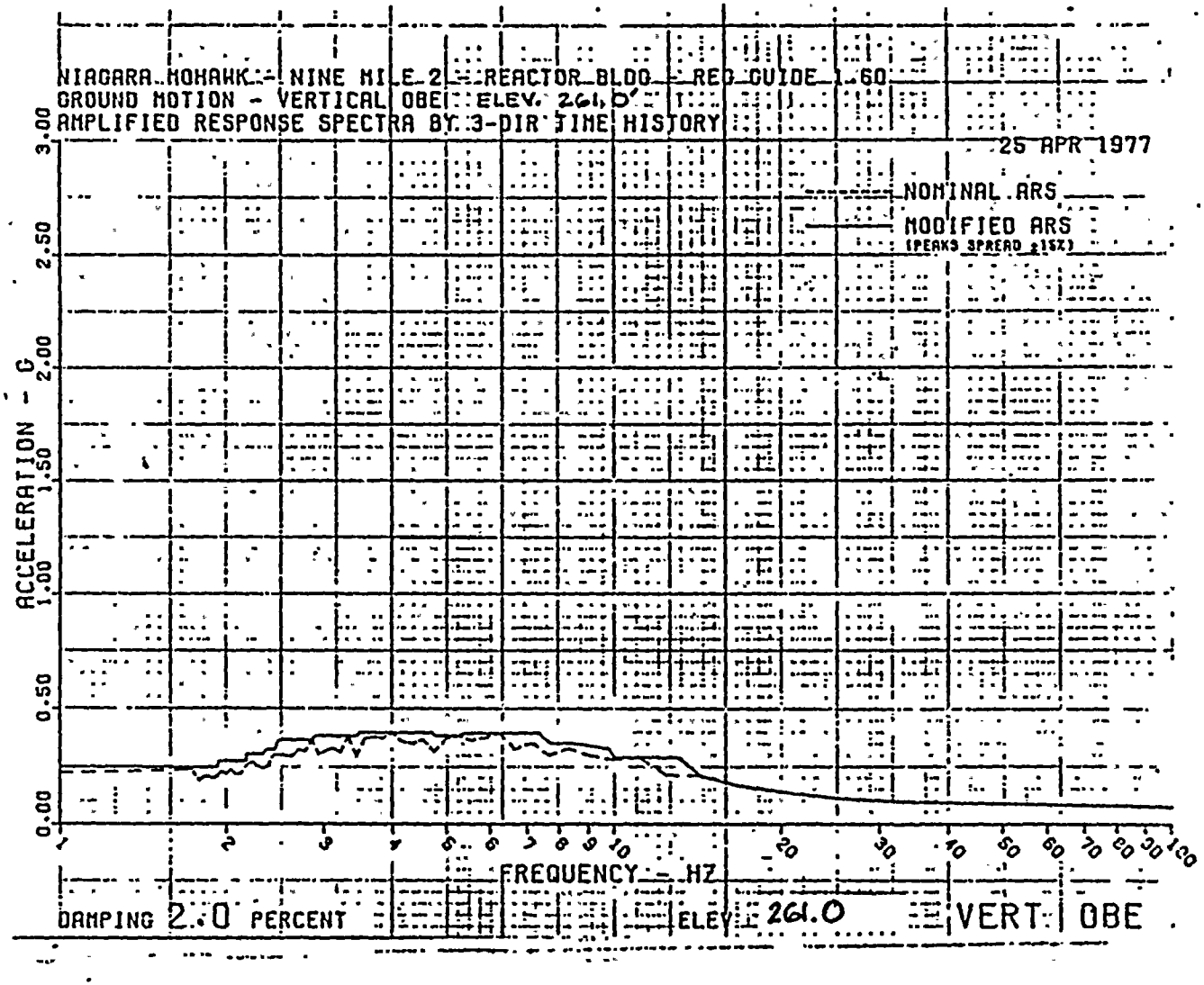
MS1386 REV. 0 REF 29

J.O. 12177



MS1386 REV. 0 REF 30

J.O 12177

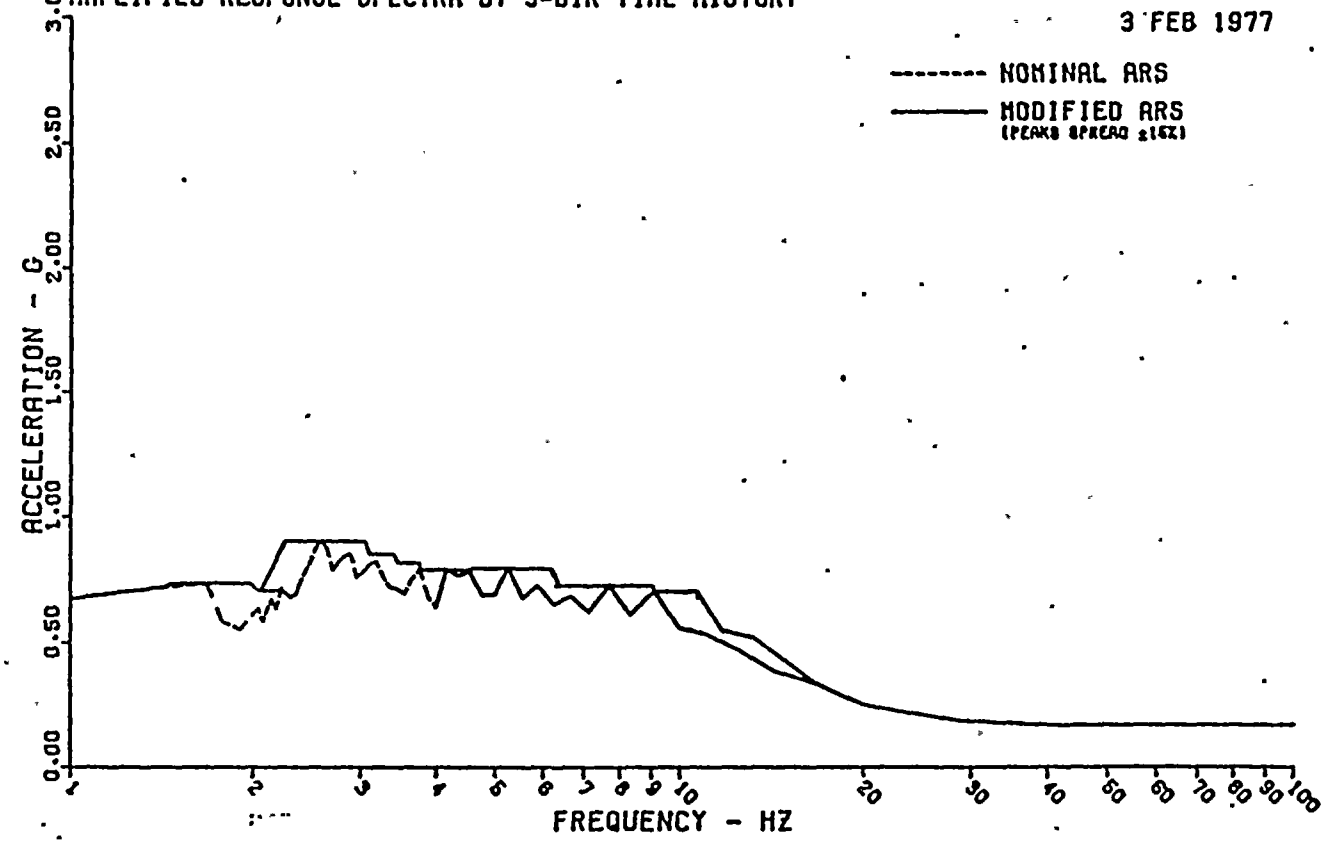


MS1386 REV. 0 REF 50

J.O. 12177

NIAGARA MOHAWK - NMP2 JOB#12177 - REACTOR BLDG - REG GUIDE 1.60
GROUND MOTION - HORIZONTAL DBE ELEV. 261.0'
AMPLIFIED RESPONSE SPECTRA BY 3-DIR TIME HISTORY

3 FEB 1977



DAMPING 2.0 PERCENT

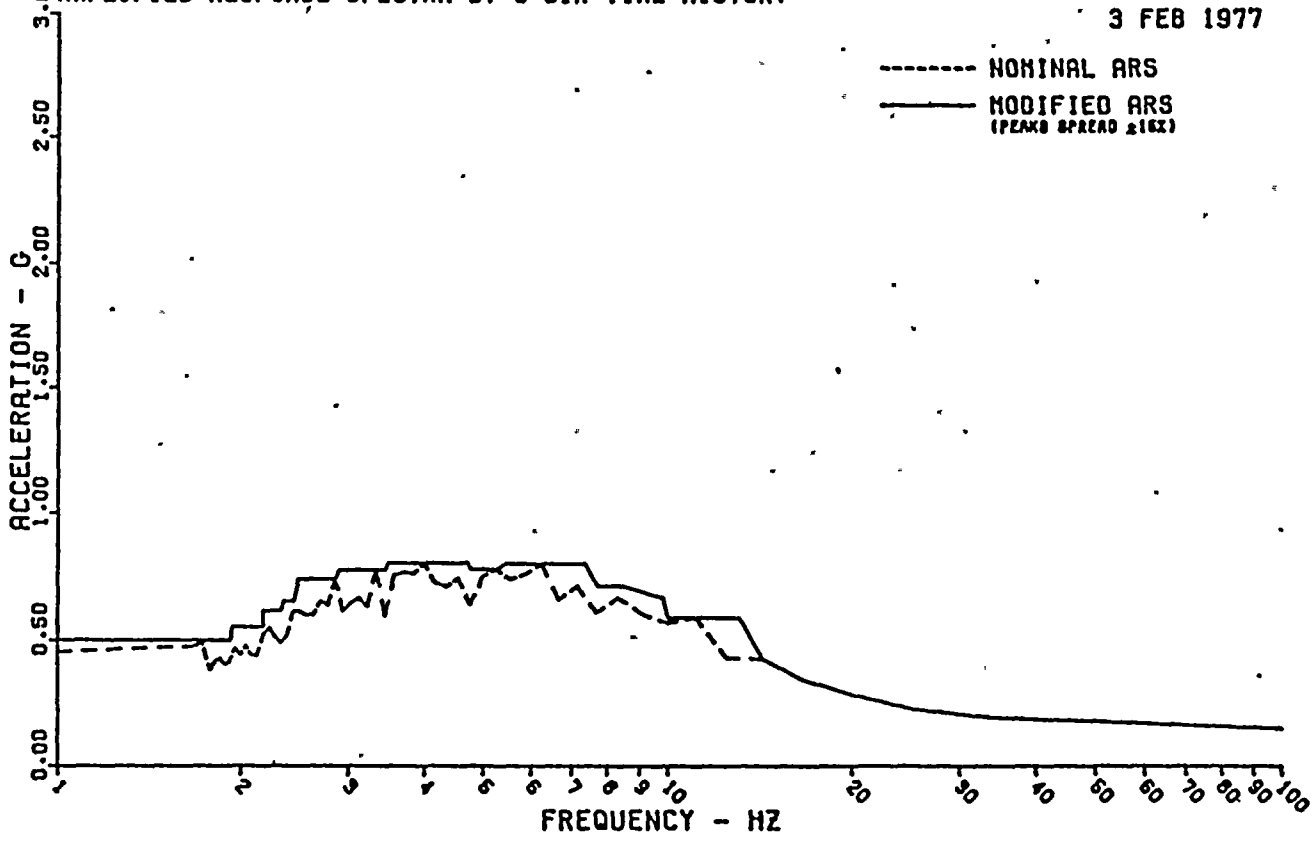
ELEV. 261.0 HORZ SSE

MS1.386 REV. 0 REF 30

J.O 12177

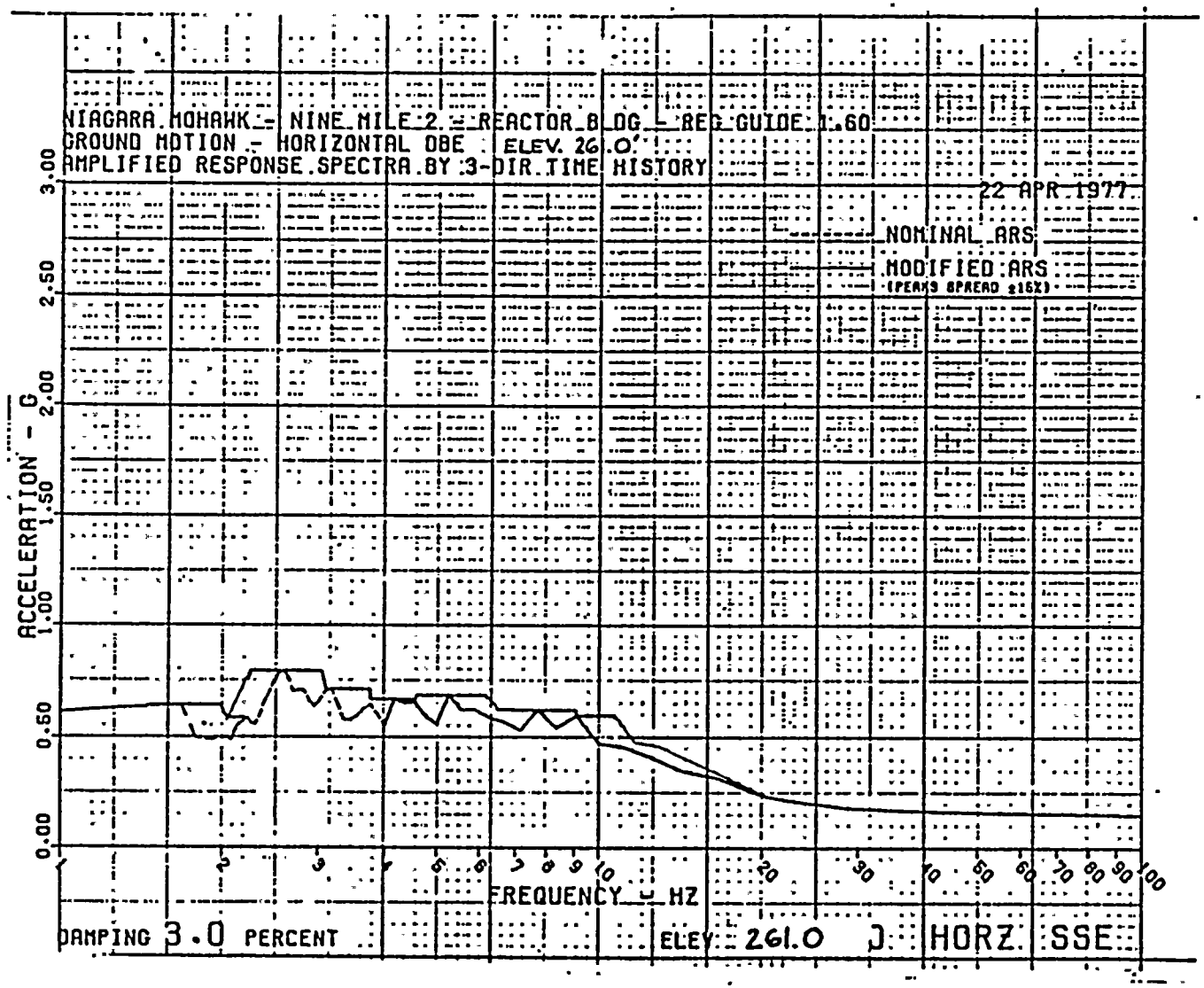
NIAGARA MOHAWK NMP2 JOB#12177 - REACTOR BLDG - REG GUIDE 1.60
GROUND MOTION - VERTICAL DBE ELEV. 261.0'
AMPLIFIED RESPONSE SPECTRA BY 3-DIR TIME HISTORY

3 FEB 1977



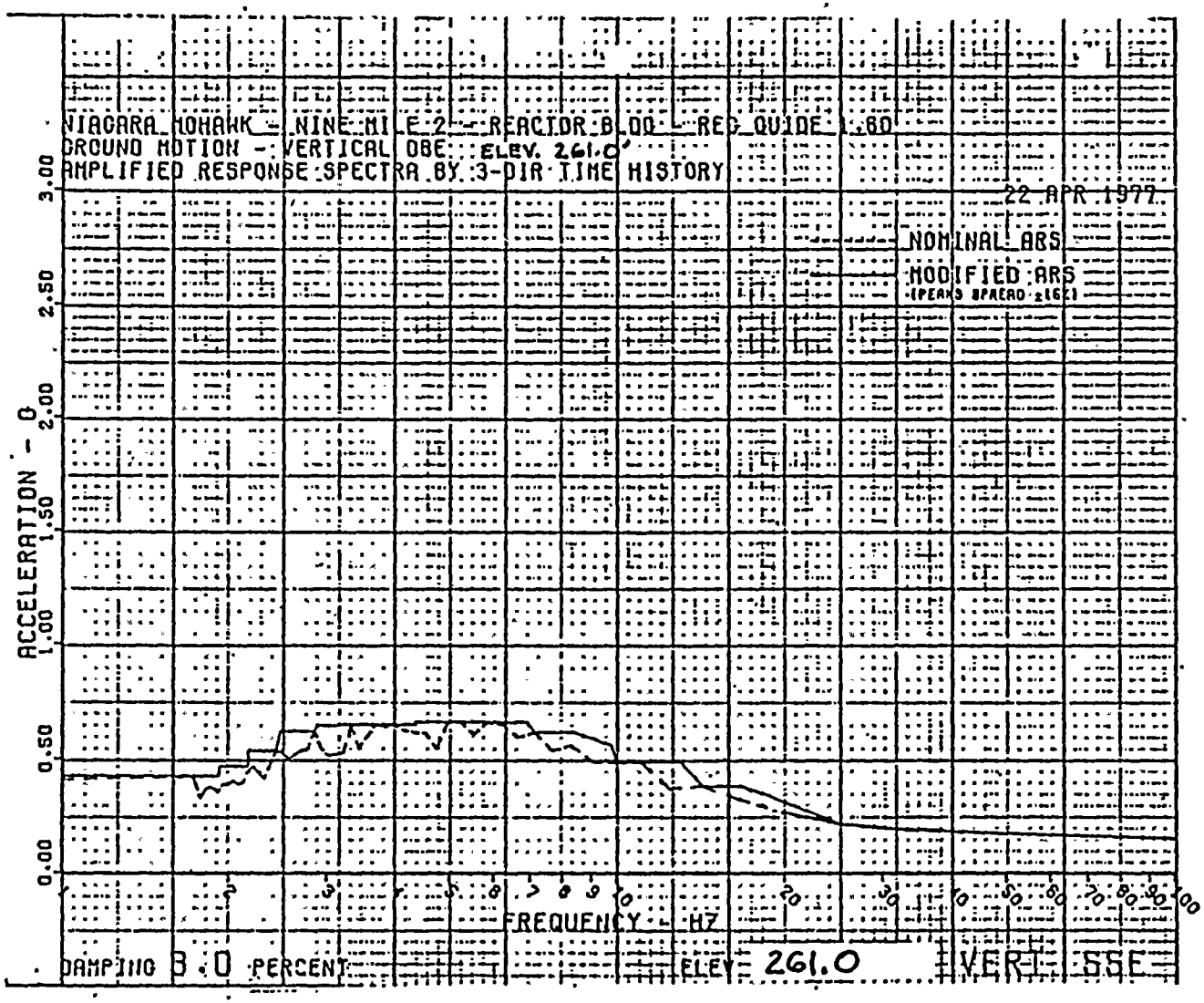
DAMPING 2.0 PERCENT ELEV 261.00 VERT SSE

MS1386 REV. (1) REF 30
J.O 12177



MS1386 REV. 0 REF 30

J.O 12177



MS1386 REV. 0 REF 30

J.O 12177

TP2

SEISMIC OBE AND SSE
REQUIRED RESPONSE SPECTRA FOR THE
REACTOR BUILDING

Seismic OBE and SSE

Required Response Spectra (RRS)
for the Reactor Building

Mass Point - Location	Elev (ft)	Reference No.*
1 - Primary Containment	330.08	65
2 - Primary Containment	315.08	66
3 - Primary Containment	302.50	67
4 - Primary Containment	286.83	68
5 - Primary Containment	271.25	69
6 - Primary Containment	255.67	70
7 - Primary Containment	238.00	71
8 - Primary Containment	218.33	72
9 - Primary Containment	196.67	73
10 - Shield Wall	315.09	74
11 - Shield Wall	302.75	75
12 - Shield Wall	290.79	76
13 - Shield Wall	278.65	77
14 - RPV Shell	332.70	78
15 - RPV Shell	315.08	79
16 - RPV Shell	297.17	80
17 - RPV Shell	278.00	81
18 - Drywell Floor	238.00	82
19 - Pedestal	266.50	83
20 - Pedestal	253.13	84
21 - Pedestal	238.00	85
22 - Pedestal	217.50	86
23 - Pedestal	196.25	87
24 - Base Mat	175.00	88
25 - Secondary Containment	416.83	89
26 - Secondary Containment	387.83	90
27 - Secondary Containment	353.83	91
28 - Secondary Containment	328.83	92
29 - Secondary Containment	289.00	93
30 - Secondary Containment	261.00	94
31 - Secondary Containment	240.00	95
32 - Secondary Containment	215.00	96
33 - Secondary Containment	198.00	97
34 - Secondary Containment	175.00	98

*Each reference number includes the following:

1. Horizontal and vertical direction OBE condition at 1, 2, and 4 percent damping.

2. Horizontal and vertical direction SSE condition at 2, 3, 4, and 7 percent damping.

0000000015

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

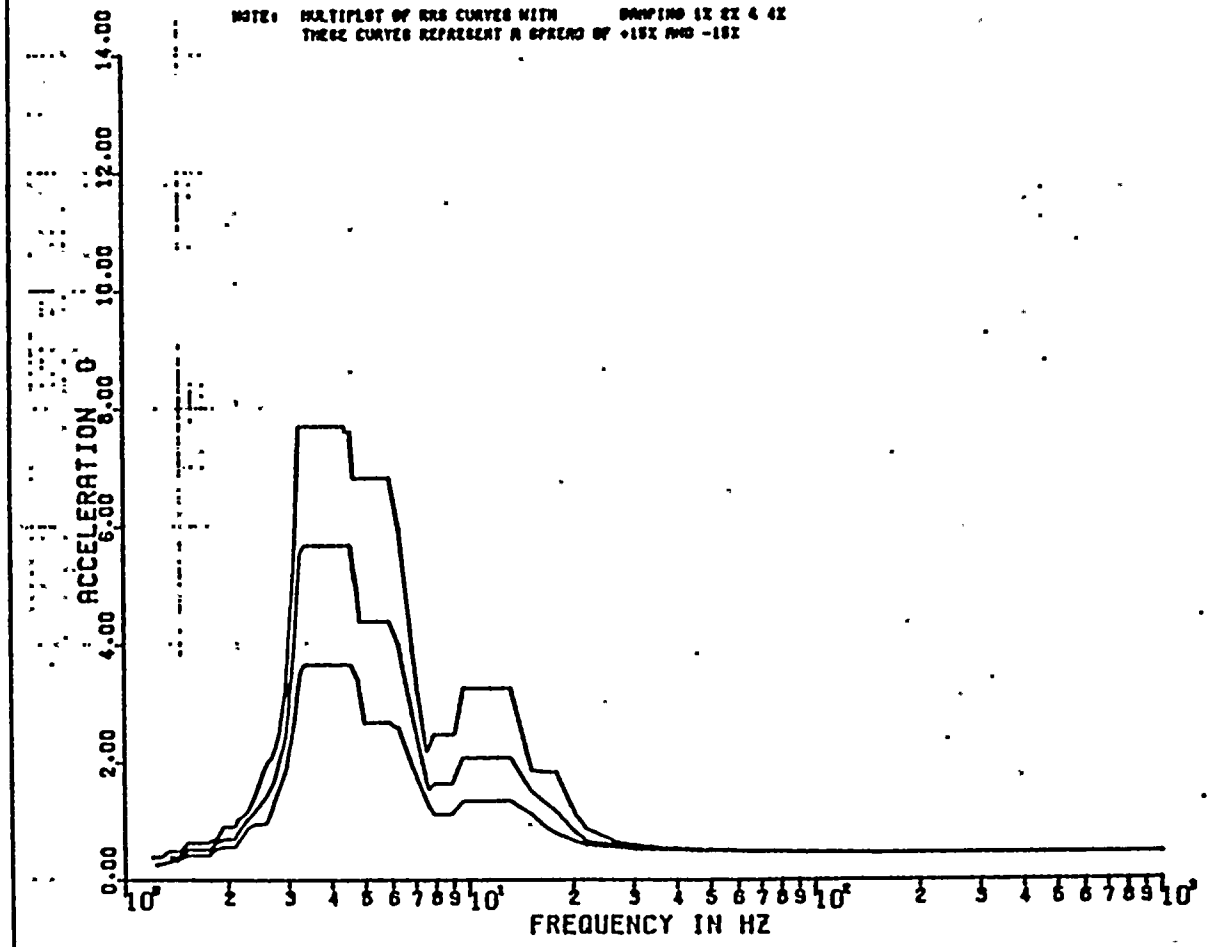
MS1765

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177
RRS OF ACC. PRIMARY CONT. (ELEV 330.08 FT)

MICHAEL K OO

DISK CURVE SET NO.0 HOR DIRECTION DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 65

0000000016

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

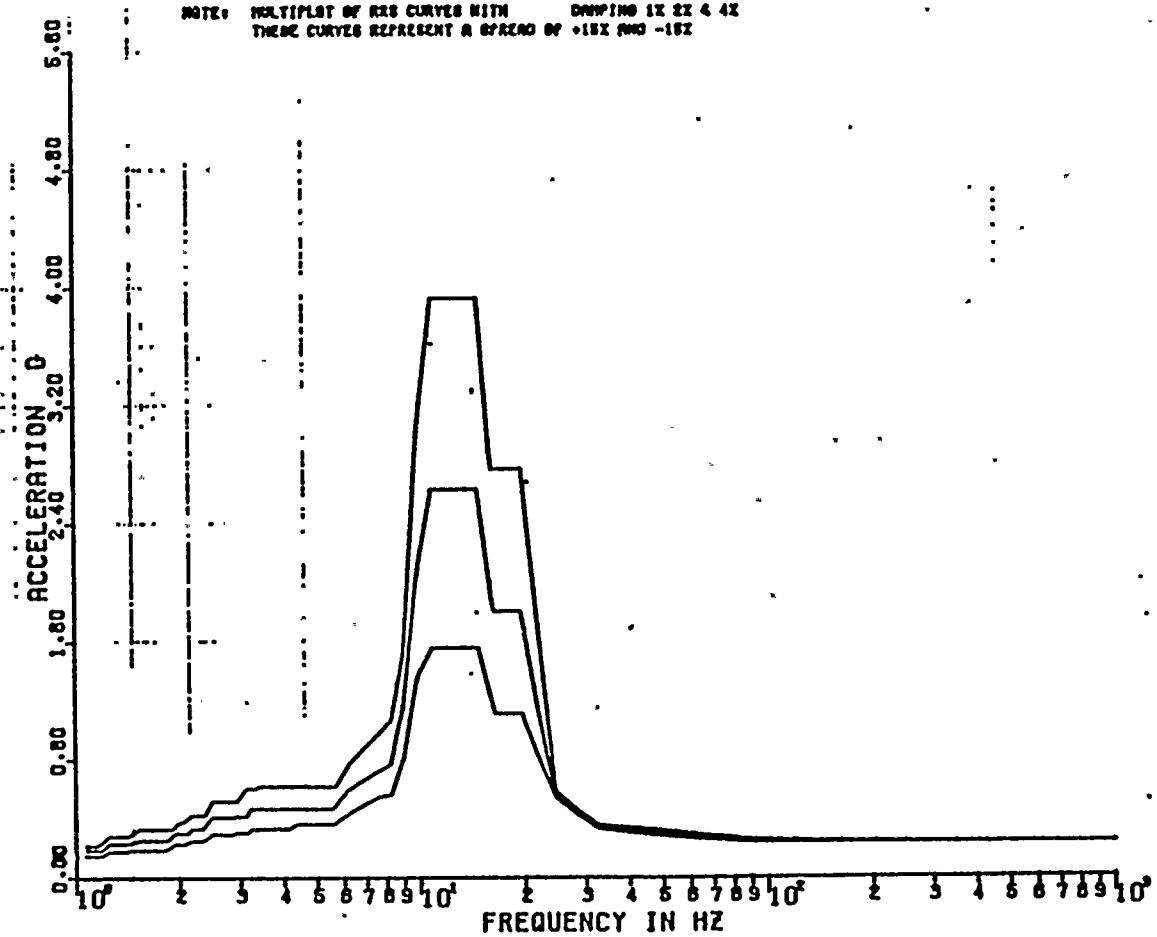
RRS OF ACC. PRIMARY CONT. (ELEV 330.08 FT)

MS1765

MICHAEL K OO

DISK CURVE SET NO.8 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 65

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

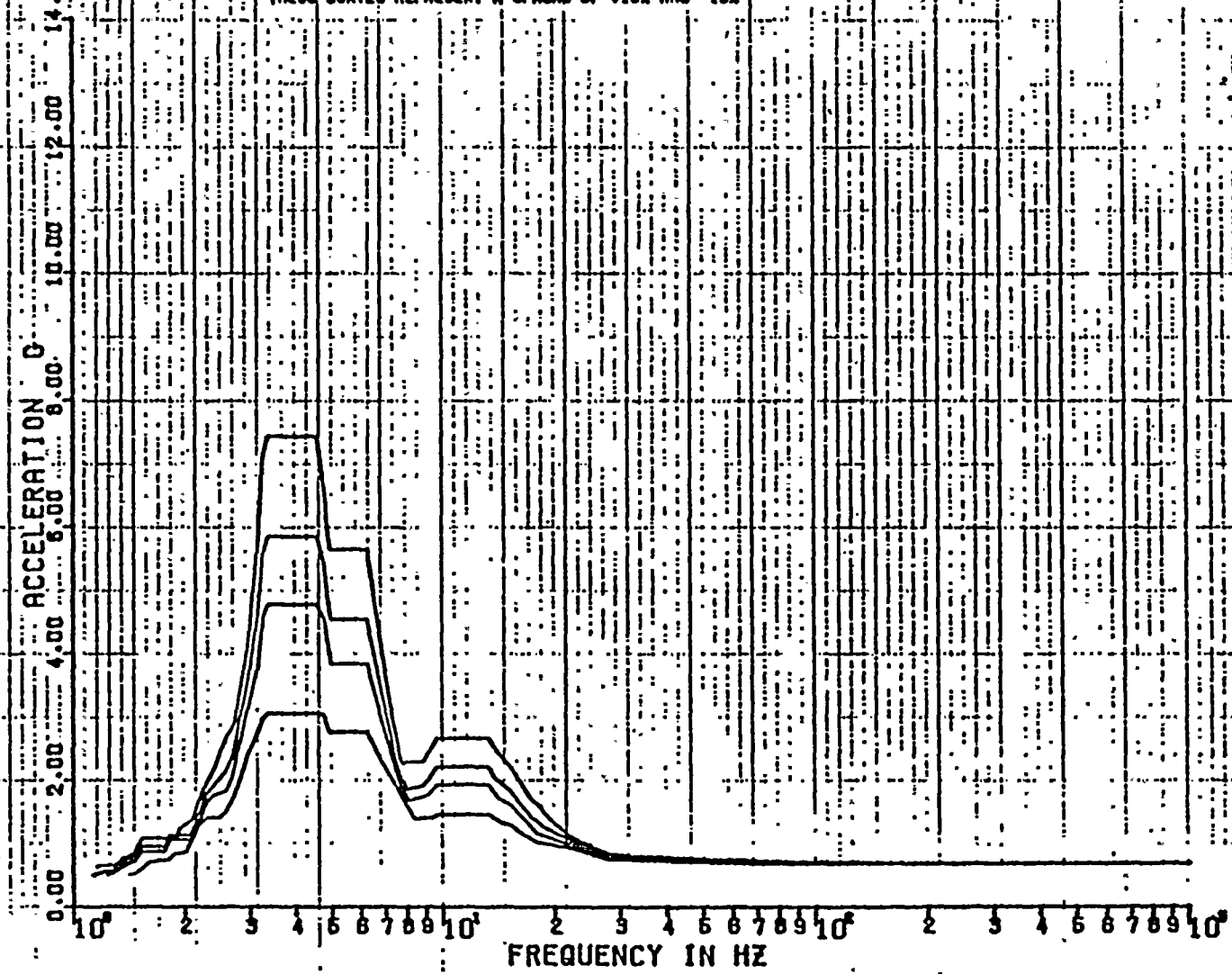
RRS OF ACC. PRIMARY CONT. (ELEV 330.08 FT)

MS1765

MICHAEL K DO

DISK CURVE SET NO.8 HOR DIRECTION DAMPING VALUES = 0.020 0.030 0.040 0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 45

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982

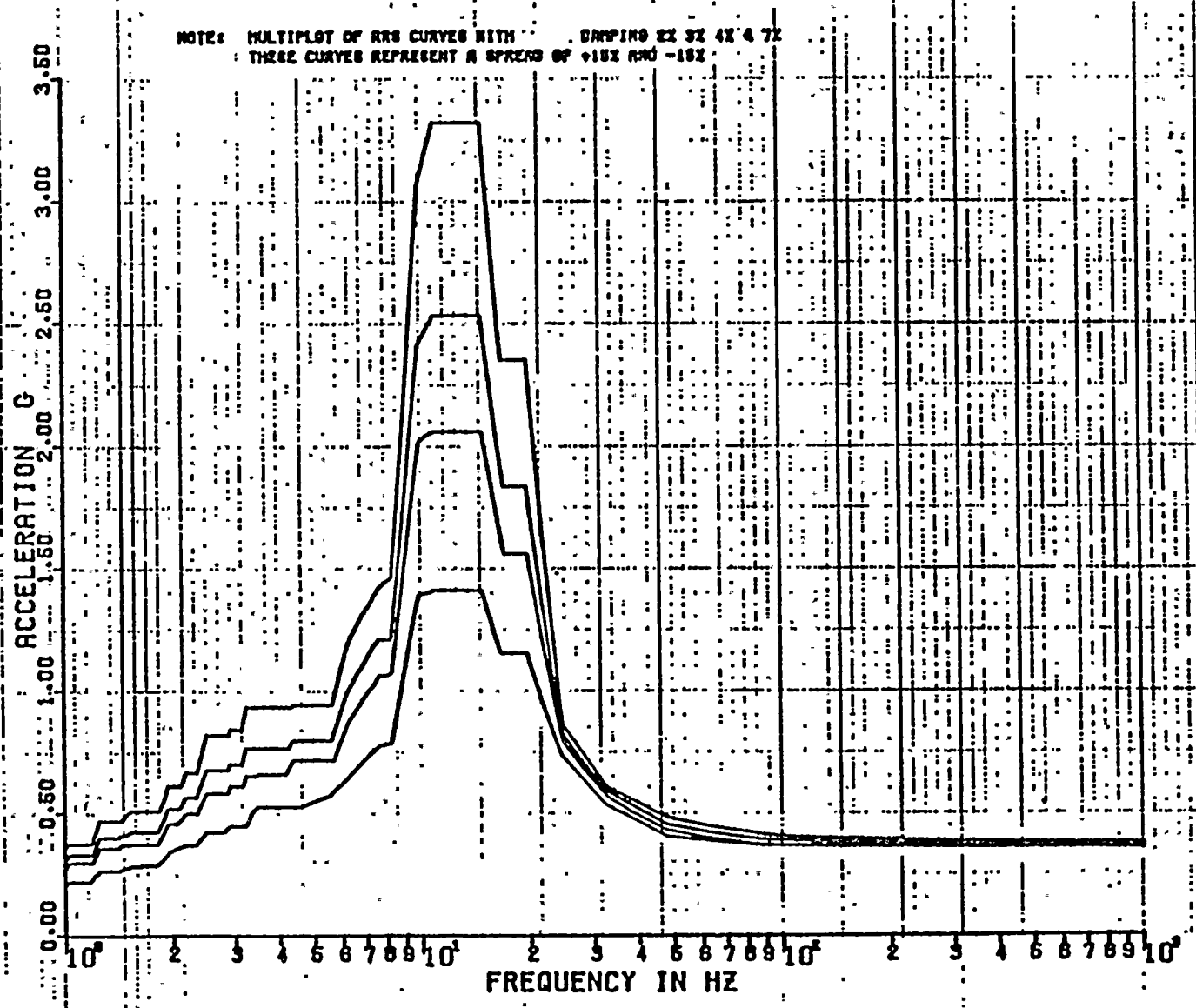
MS1765 0000000081

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177
RRS OF ACC. PRIMARY CONT. (ELEV 330.08 FT)

MICHAEL K DO

DISK CURVE SET NO.6 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
: THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 65

0000000017

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RMS OF ACC. PRIMARY CONT. (ELEV 315.08 FT)

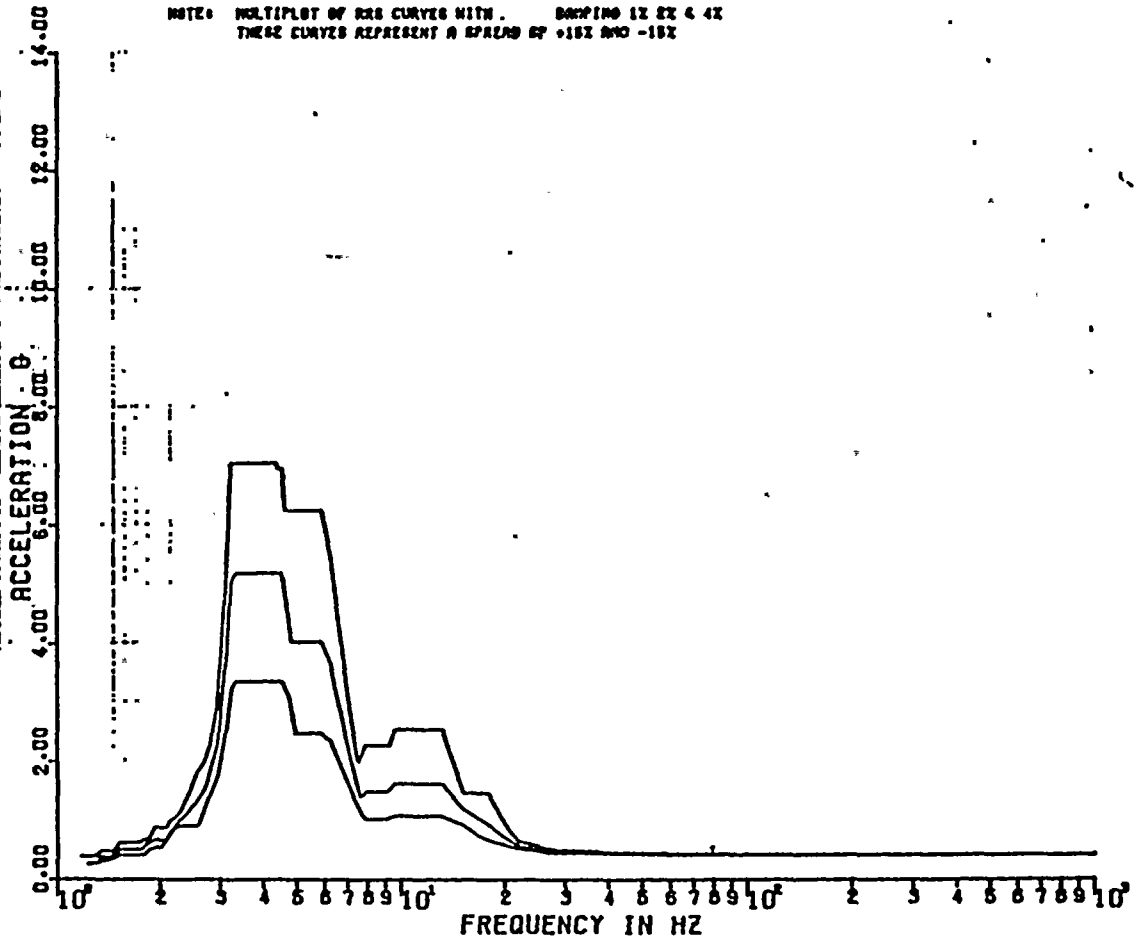
MS1765

MICHAEL K OO

DISK CURVE SET NO.5 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH . DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 66

0000000018

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

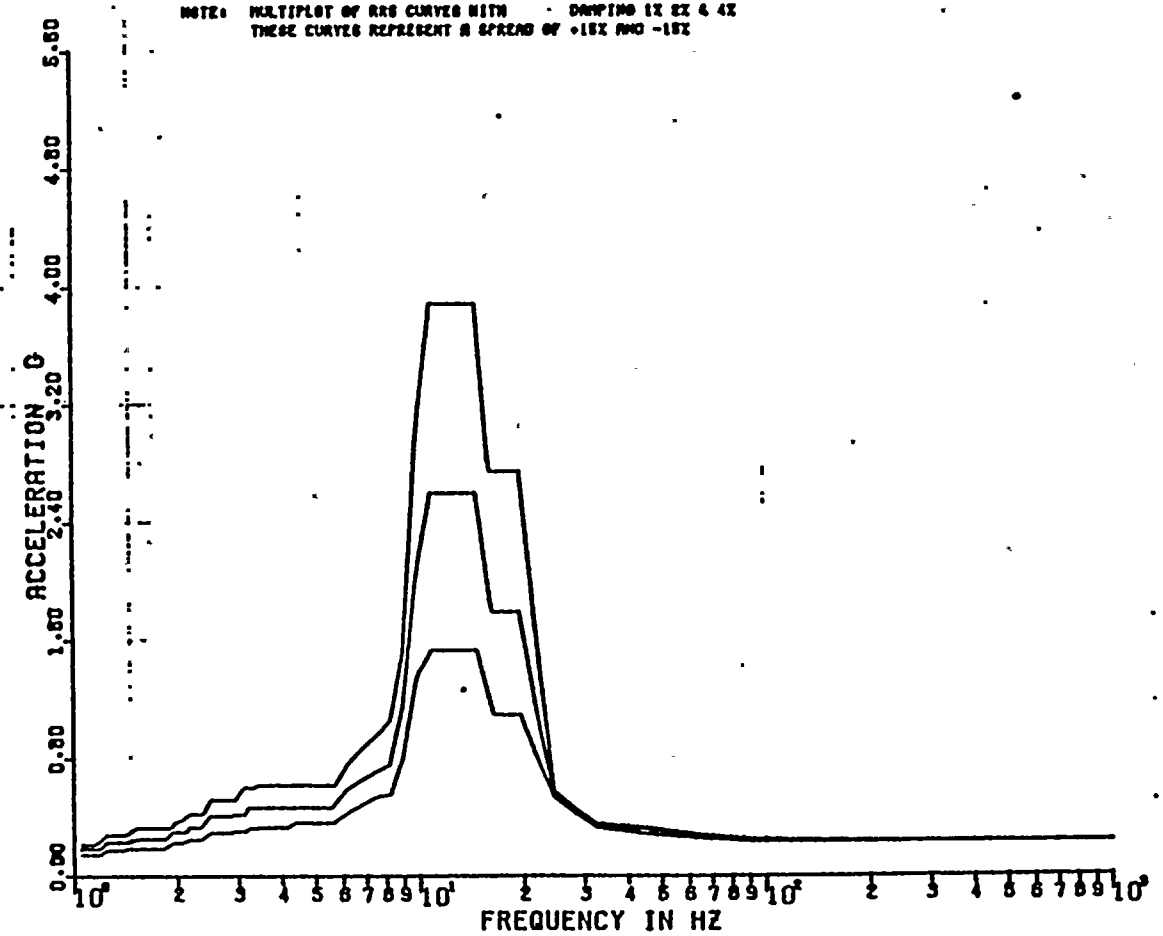
RRS OF ACC. PRIMARY CONT. (ELEV 315.08 FT)

MS1765

MICHAEL K OO

DISK CURVE SET NO.5 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH - DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 66

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982

0000000082

MS1765

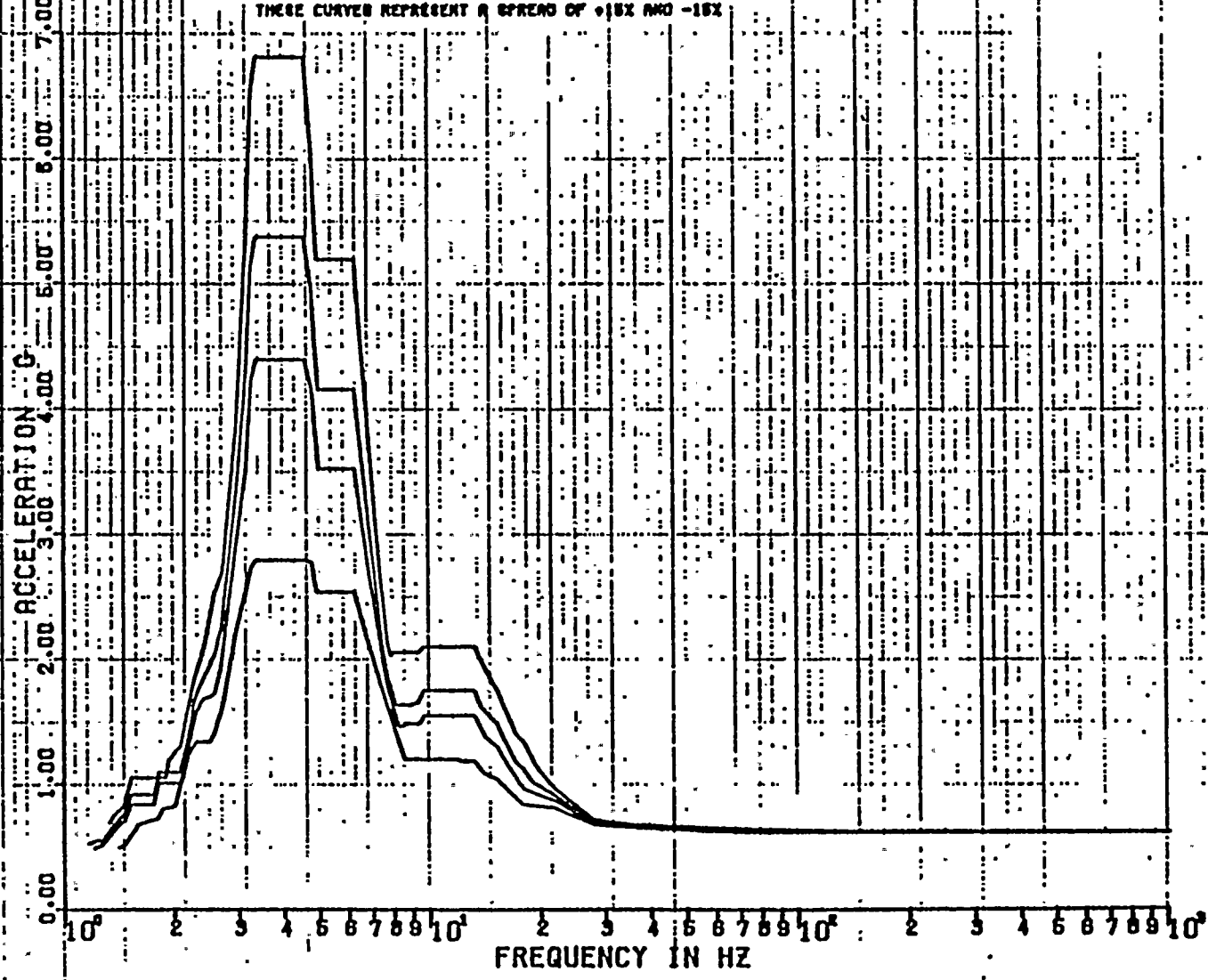
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RMS OF ACC. PRIMARY CONT. (ELEV 315.08 FT)

MICHAEL K OO

DISK CURVE SET NO.5 HOR DIRECTION DAMPING VALUES = 0.020 0.030 0.040 0.070

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF. 66

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982

MS1765 0000000083

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

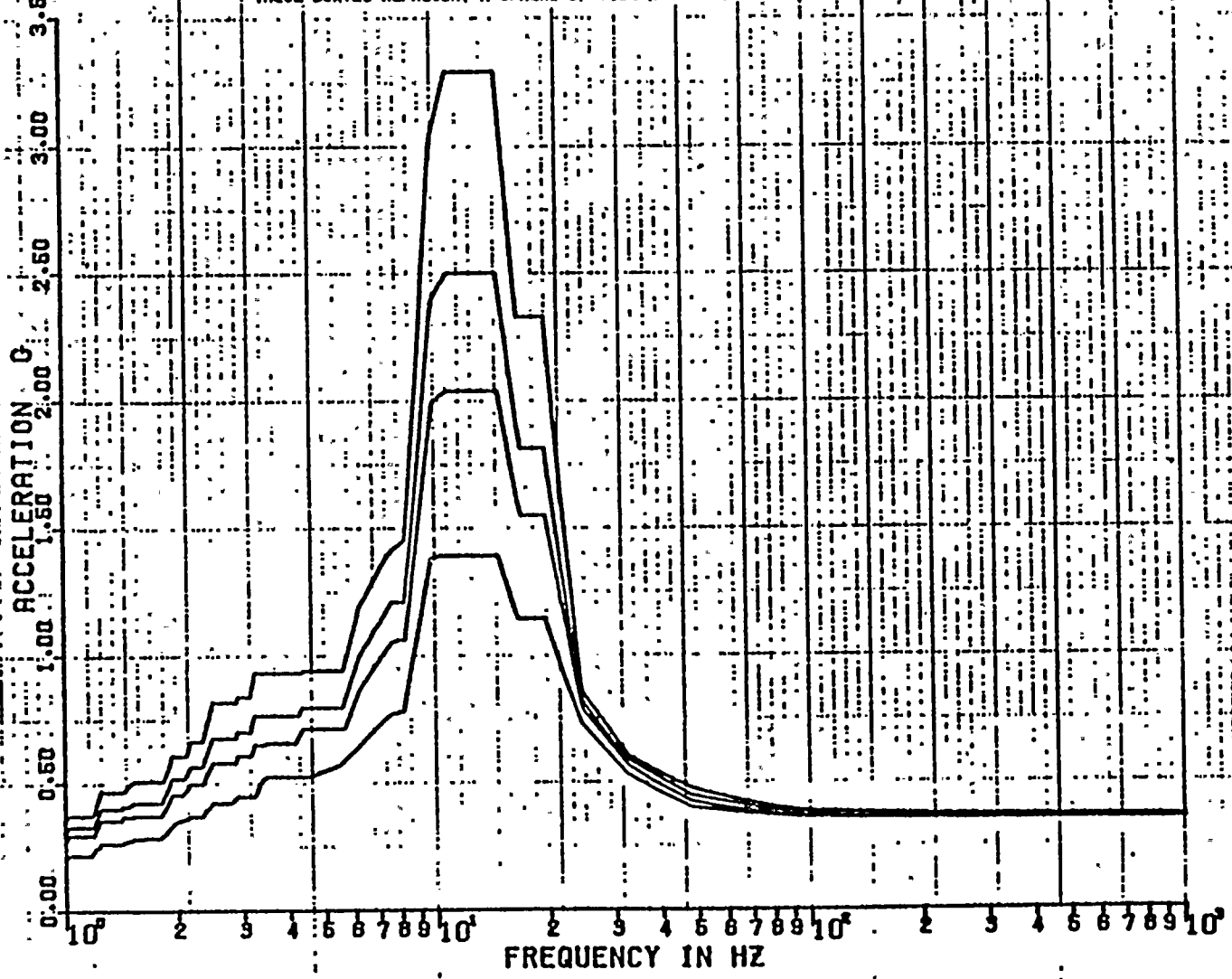
RRS OF ACC. PRIMARY CONT. (ELEV 315.08 FT)

MICHAEL K OO

DISK CURVE SET NO.5 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 66

0000000019

PSPECTRA VER 01 LEV 08 SEISMIC (OBE,)

9 DEC 1992

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177
RRS OF ACC. PRIMARY CONT. (ELEV 302.50 FT)

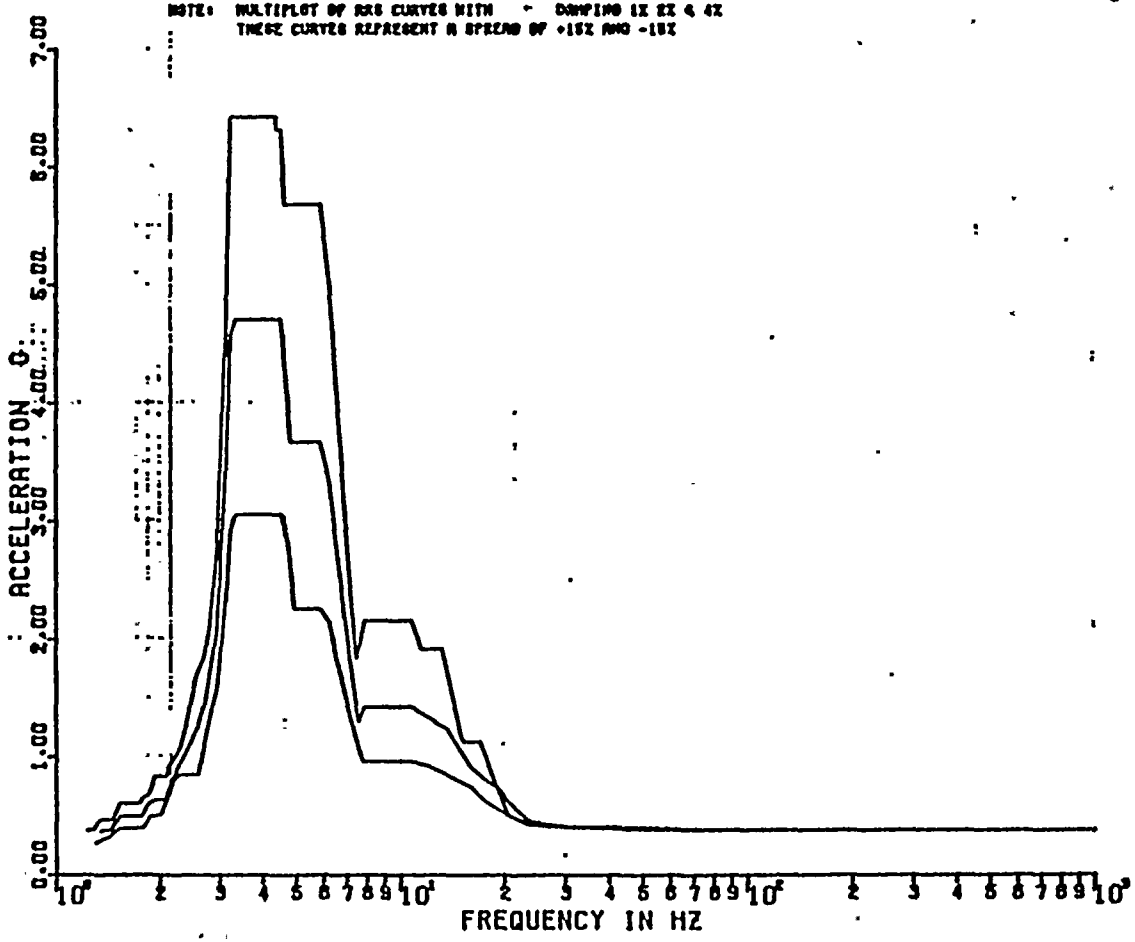
MS1765

MICHAEL K OO

DISK CURVE SET NO.9 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH - DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF. 67

0000000020

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. PRIMARY CONT. (ELEV 302.50 FT)

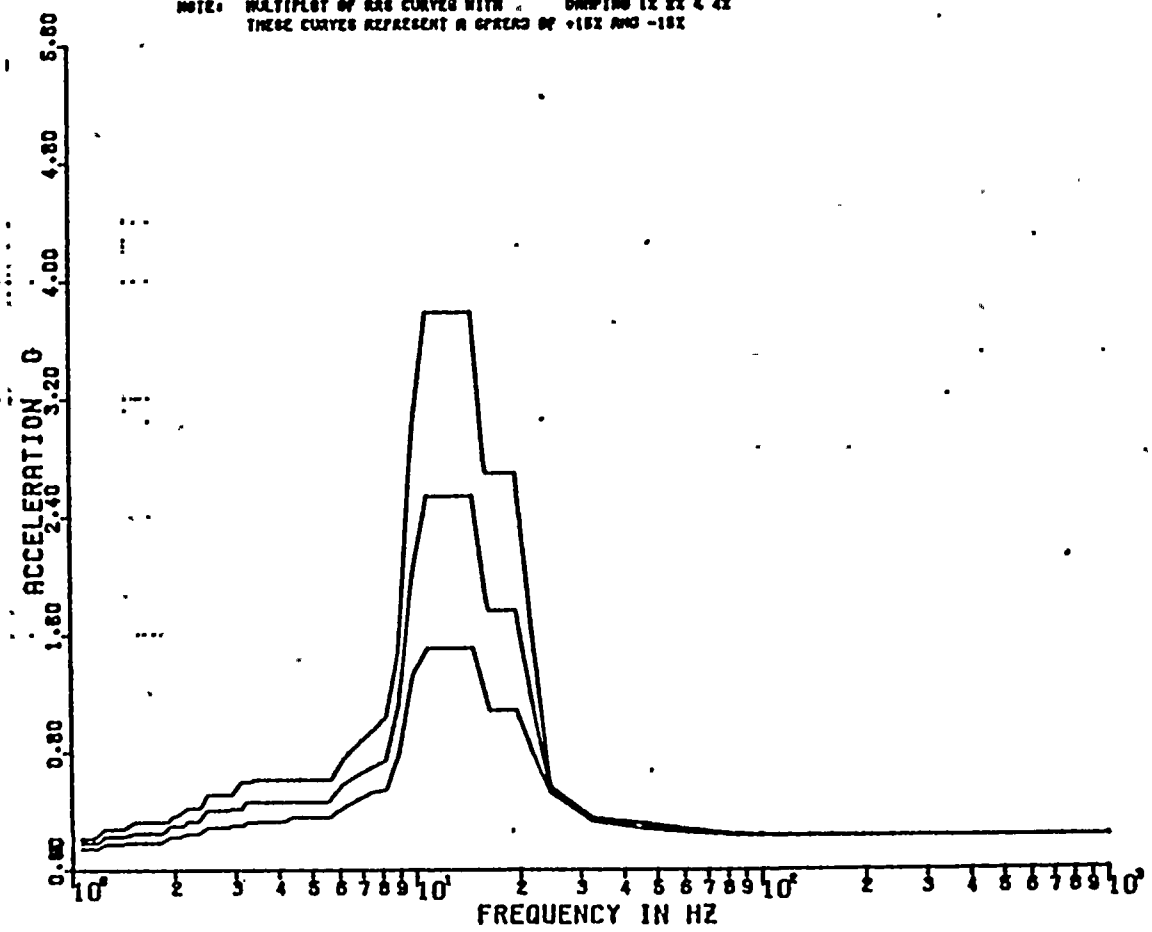
MS1765

MICHAEL K OO

DISK CURVE SET NO.9 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 67

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. PRIMARY CONT. (ELEV 302.50 FT)

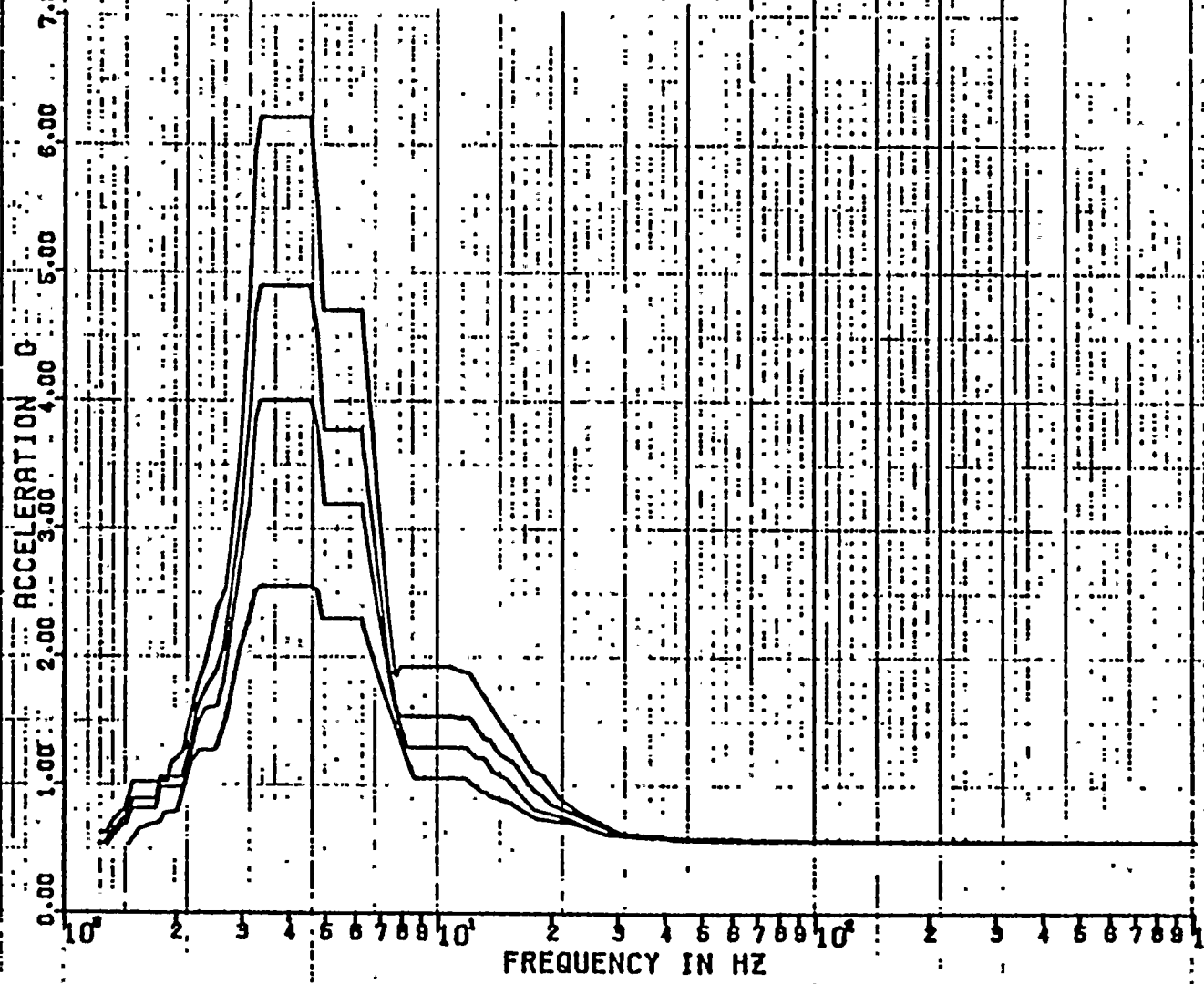
MS1765

MICHAEL K DO

DISK CURVE SET NO.9 HOR DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 67

PSPECTRA VER 01 LEV 08 ...MIC (SSE)

11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. PRIMARY CONT. (ELEV 302.50 FT)

MS1765 00000 0085

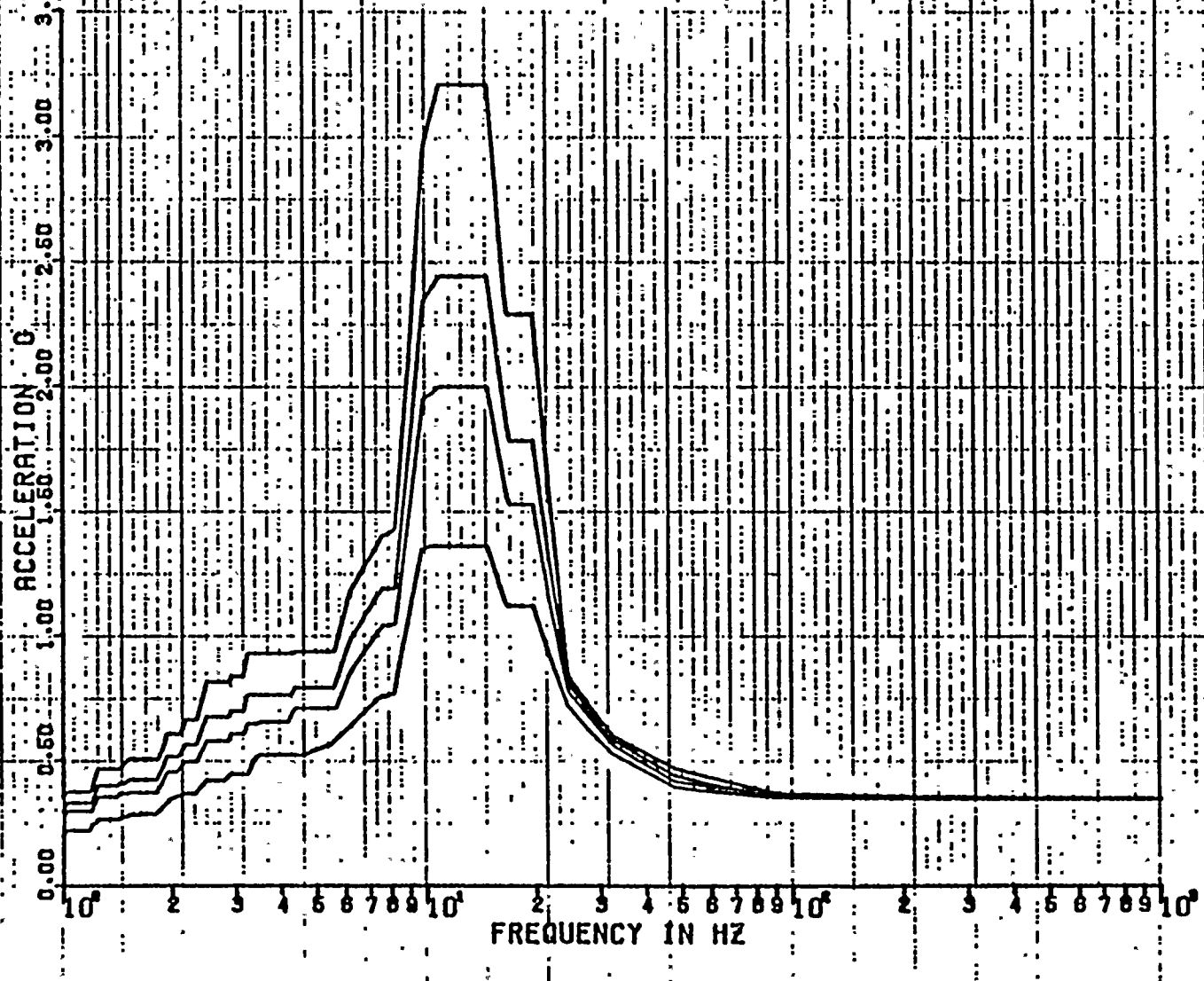
MICHAEL K DO

DISK CURVE SET NO.9

VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



LD 1337

0000000021

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT2 J.O.12177

RRS OF ACC. PRIMARY CONT. (ELEV 288.83 FT)

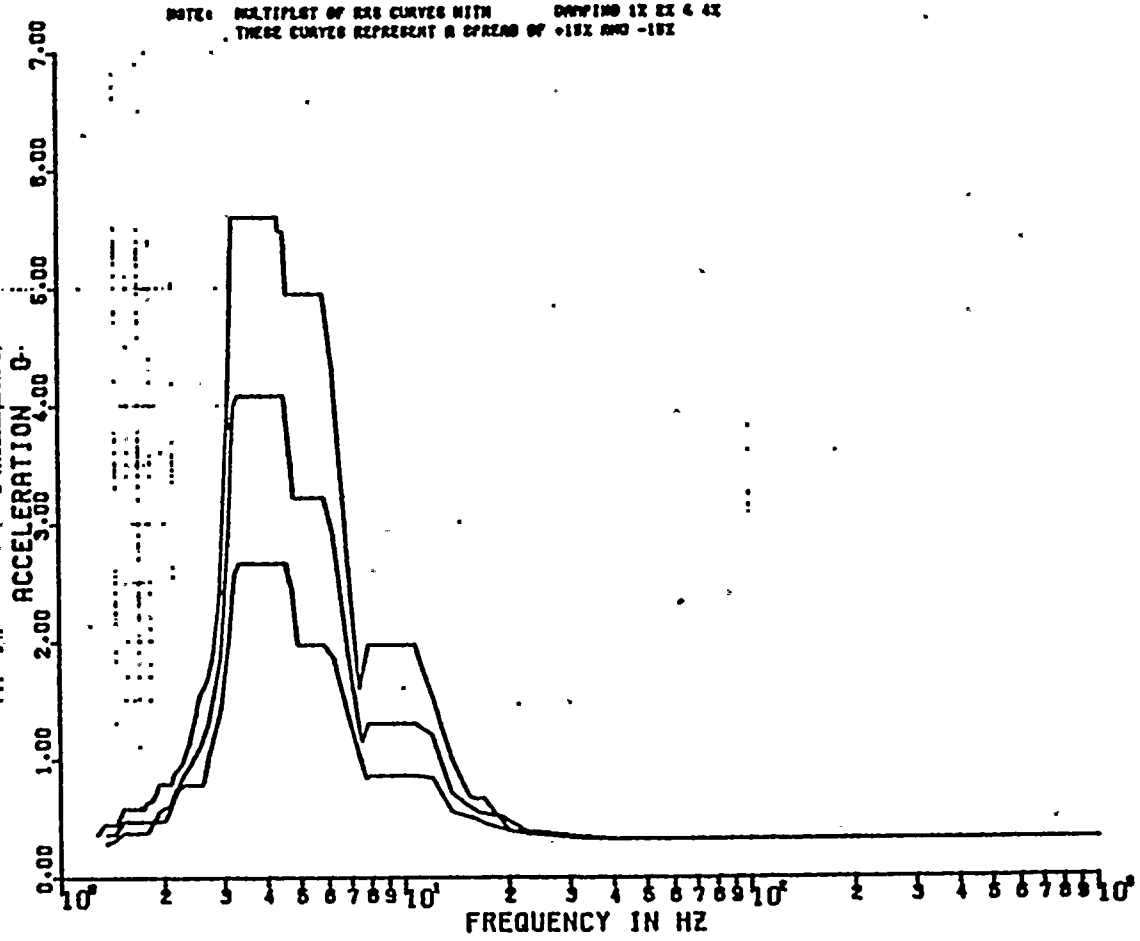
MS1765

MICHAEL K OO

DISK CURVE SET NO.12 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF. 68

0000000022

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

MS1765

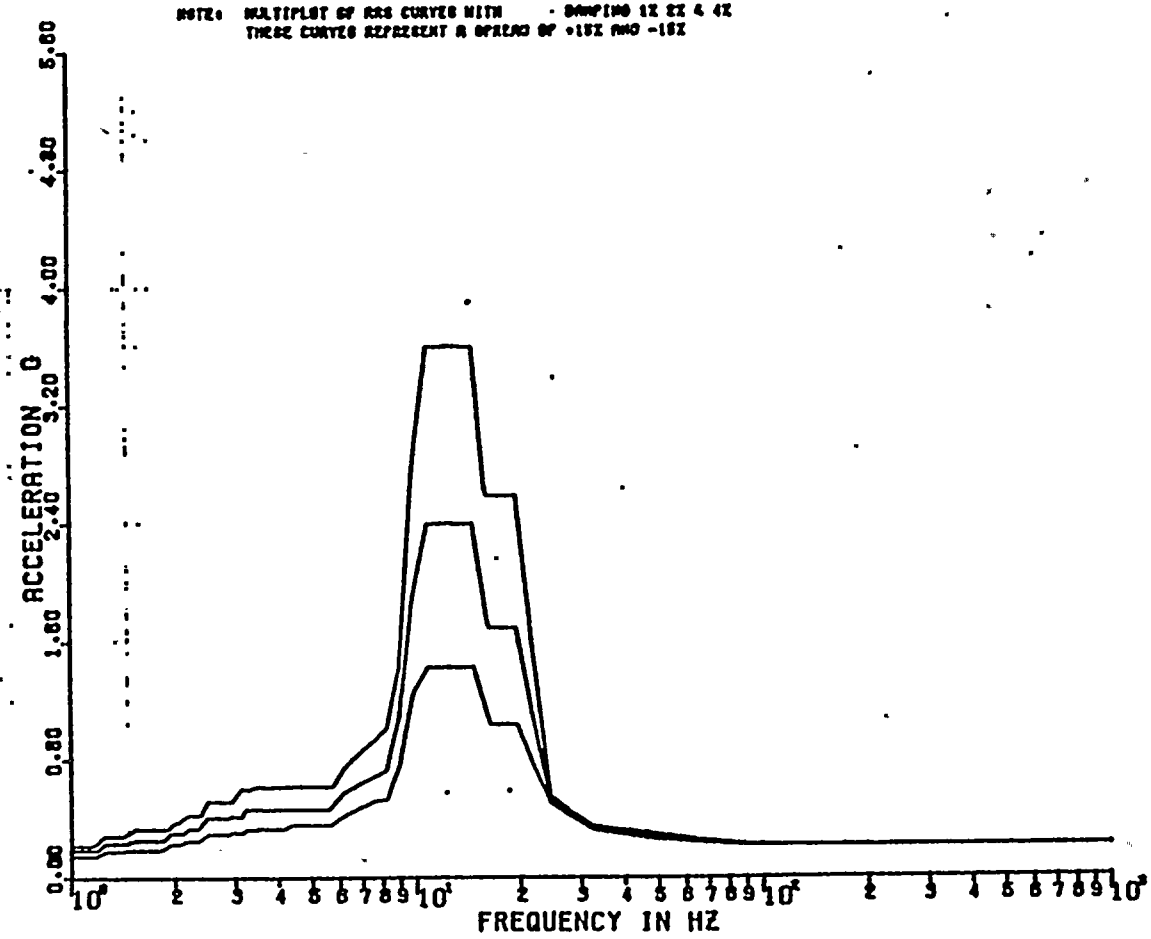
MIAGARA MOHAWK-NINE MILES POINT UNIT2 J.O.12177
RRS OF ACC. PRIMARY CONT. (ELEV 288.83 FT)

MICHAEL K OO

DISK CURVE SET NO.12 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH - DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 68

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982

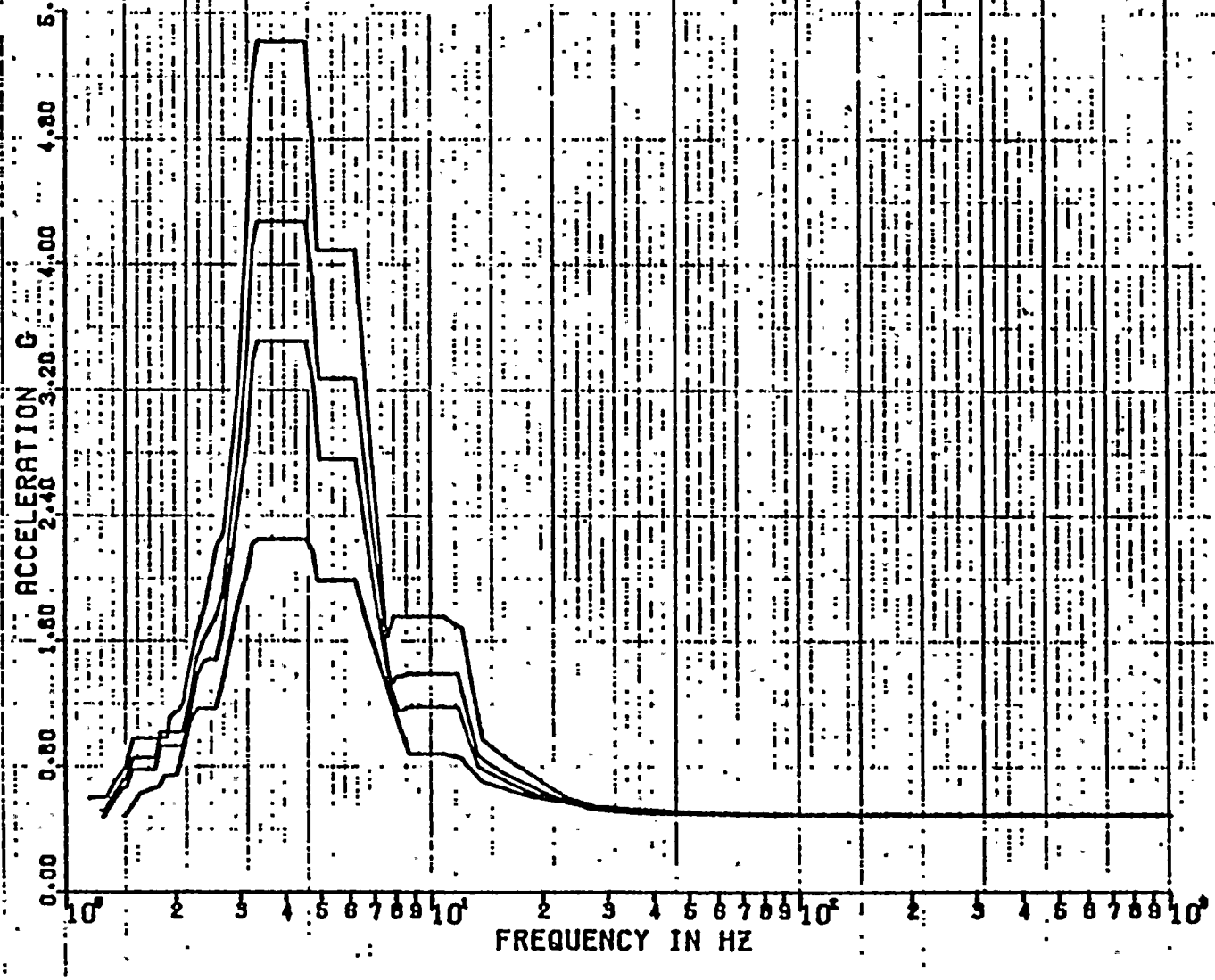
MS1765 0000000086

NIAGARA MOHAWK=NINE MILES POINT UNIT2 J.O.12177
RRS OF ACC. PRIMARY CONT. (ELEV 265.83 FT)

MICHAEL K DO..

DISK CURVE SET NO.12 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH . DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF. 68

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982 0000000097

NIAGARA MOHAWK-NINE MILES POINT UNIT2 J.O.12177

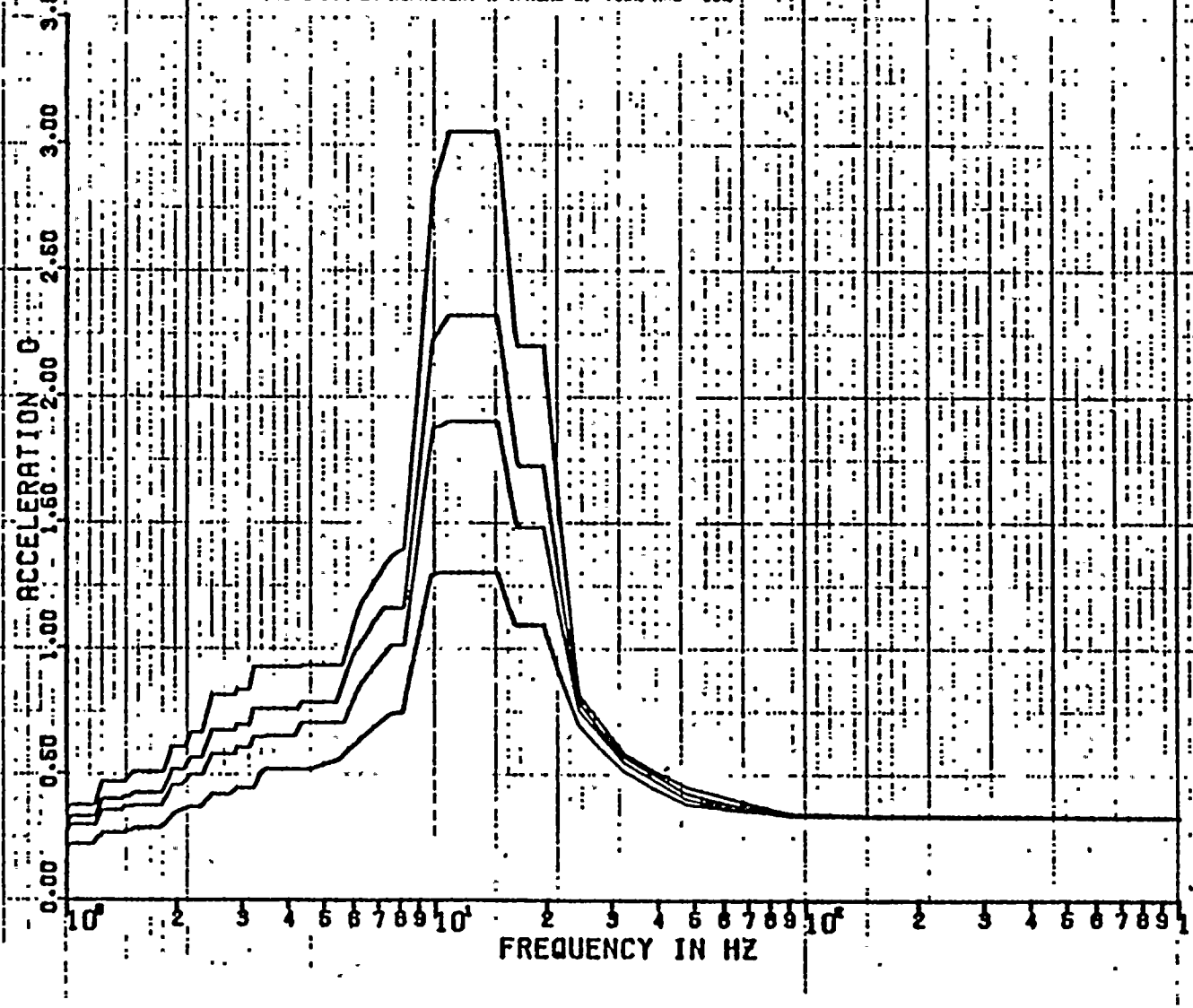
RRS OF ACC. PRIMARY CONT. (ELEV 285.83 FT)

MS1765

MICHAEL K. DO

DISK CURVE SET NO.12 VER DIRECTION DAMPING VALUES = 0.020 0.030 0.040 0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF. 68

0000000023

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

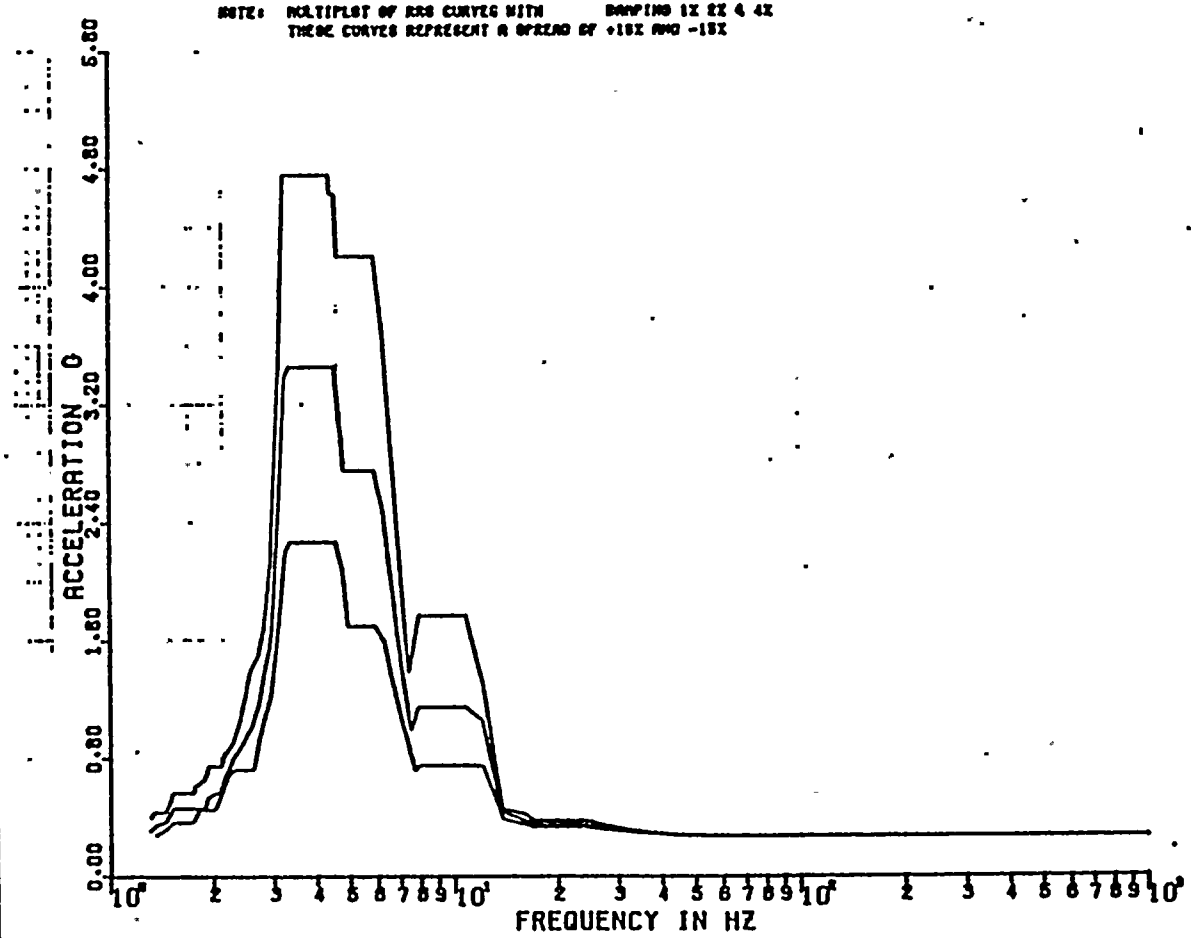
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177
RRS OF ACC. PRIMARY CONT. (ELEV. 271.25 FT)

MS1765

MICHAEL K OO

DISK CURVE SET NO.14 HOR DIRECTION DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF. 69

0000000024

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177
RRS OF ACC. PRIMARY CONT. (ELEV. 271.25 FT)

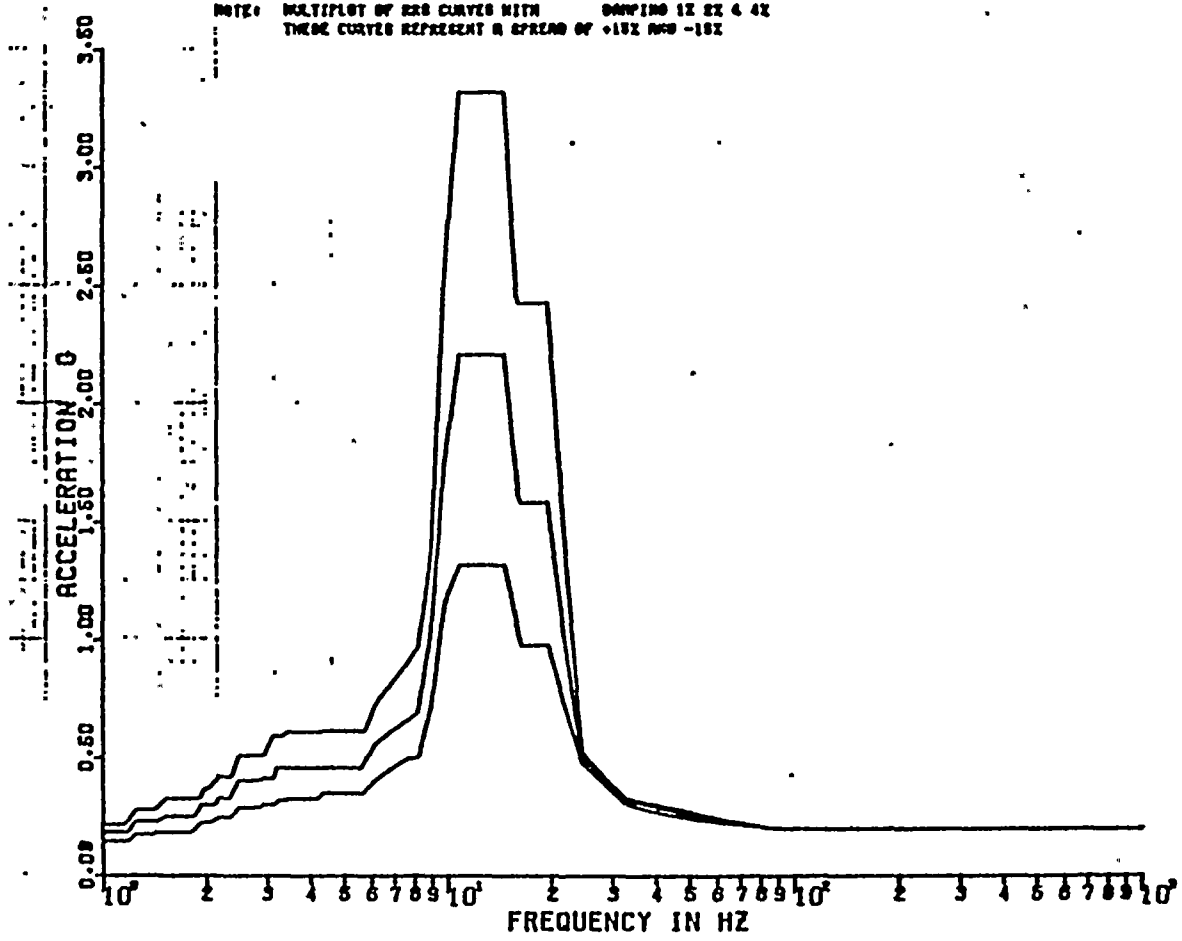
MS 1765

MICHAEL K OO

DISK CURVE SET NO.14 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 69

PSPECTRA VER 01 LEV 05 SEISMIC (SSE) 11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

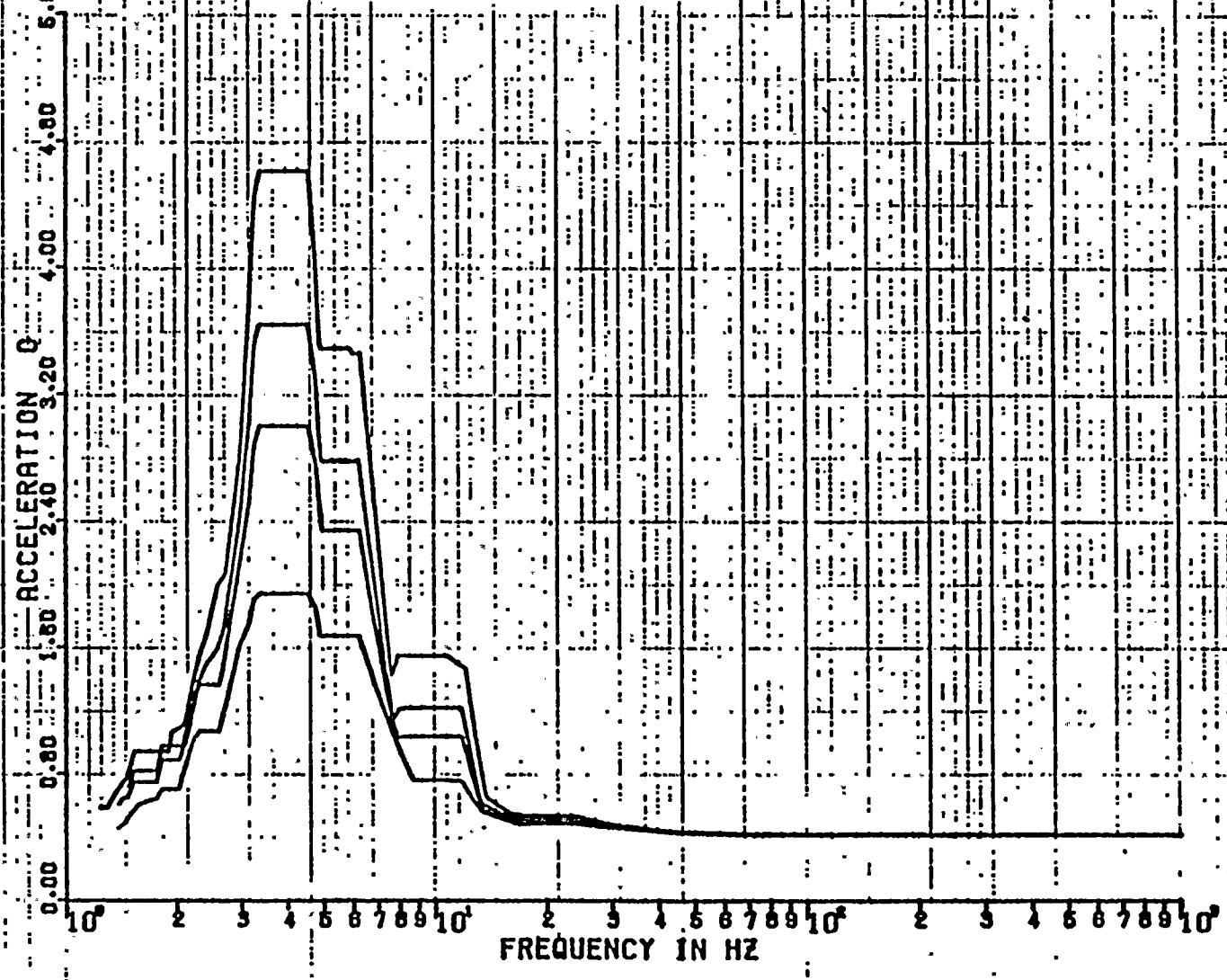
RRS OF ACC. PRIMARY CONT. (ELEV. 271.25 FT)

MS1765 00000 0098

MICHAEL K.DO.

DISK CURVE SET NO.14 HOR DIRECTION DAMPING VALUES = 0.020 0.030 0.040 0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THICK CURVES REPRESENT A SPREAD OF +15% AND -15%



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PSPECTRA VER 01 LEV 00 SEISMIC (SSE) 11 DEC 1982

MS1765 0000000089

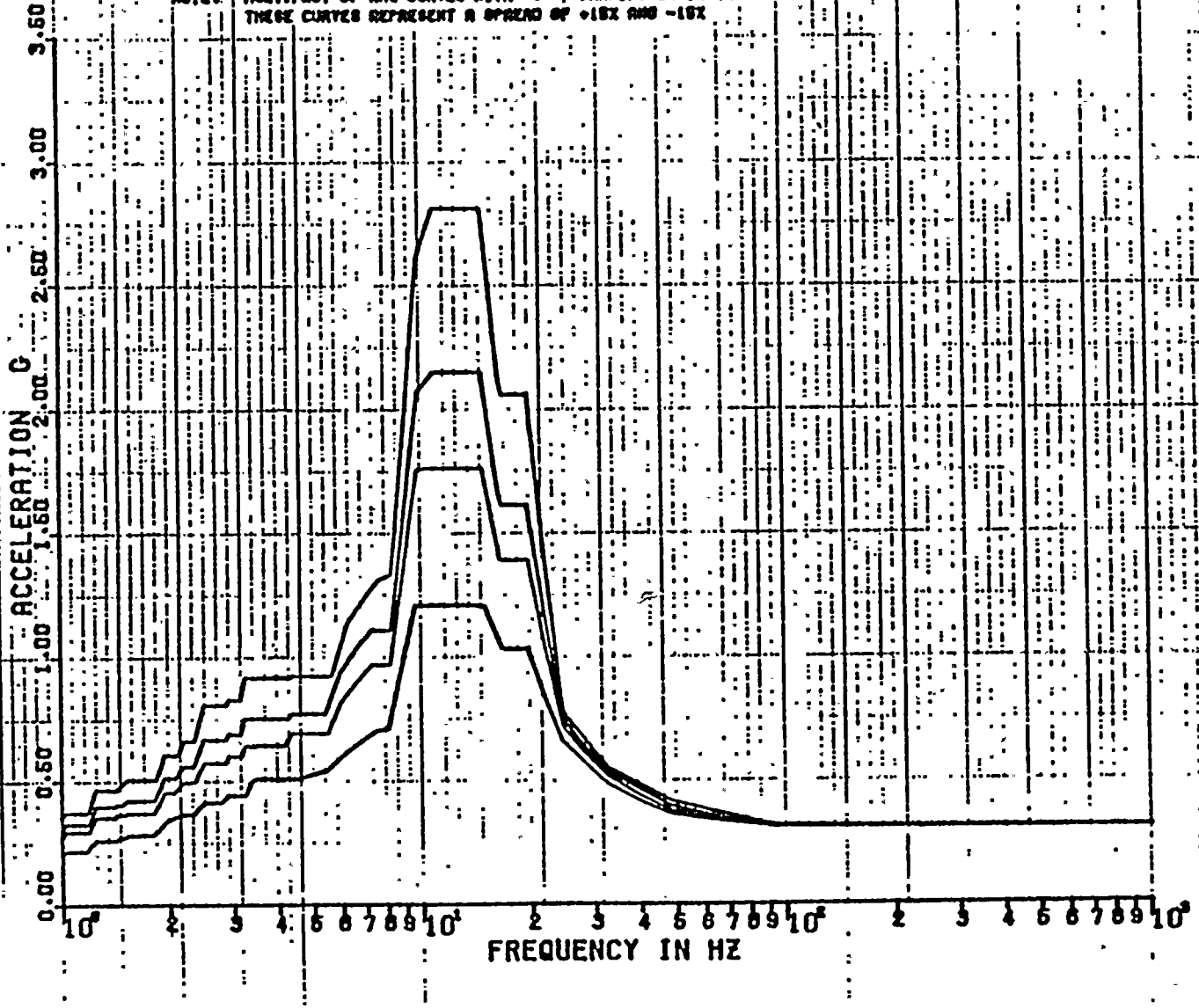
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177
RRS OF ACC. PRIMARY CONT. (ELEV. 271.25 FT)

MICHAEL.K DO

DISK CURVE SET NO.14 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%.
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 69

0000000025

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. PRIMARY CONT. (ELEV 255.67 FT)

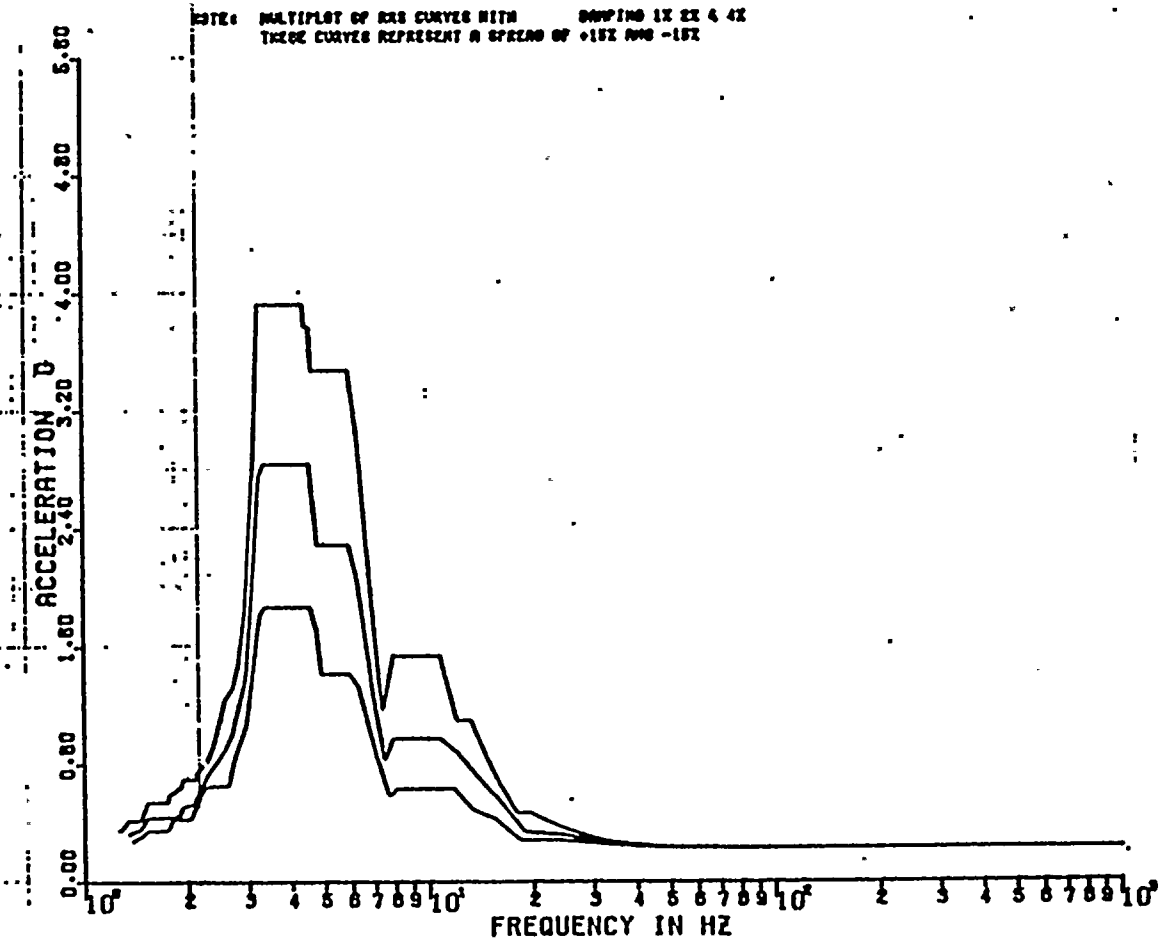
MS1765

MICHAEL K OO

DISK CURVE SET NO.18 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 70

0000000026

PSPECTRA VER 01 LEV 08 SEISMIC (OBE)

9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177
RRS OF ACC. PRIMARY CONT. (ELEV 255.67 FT)

MS 1765

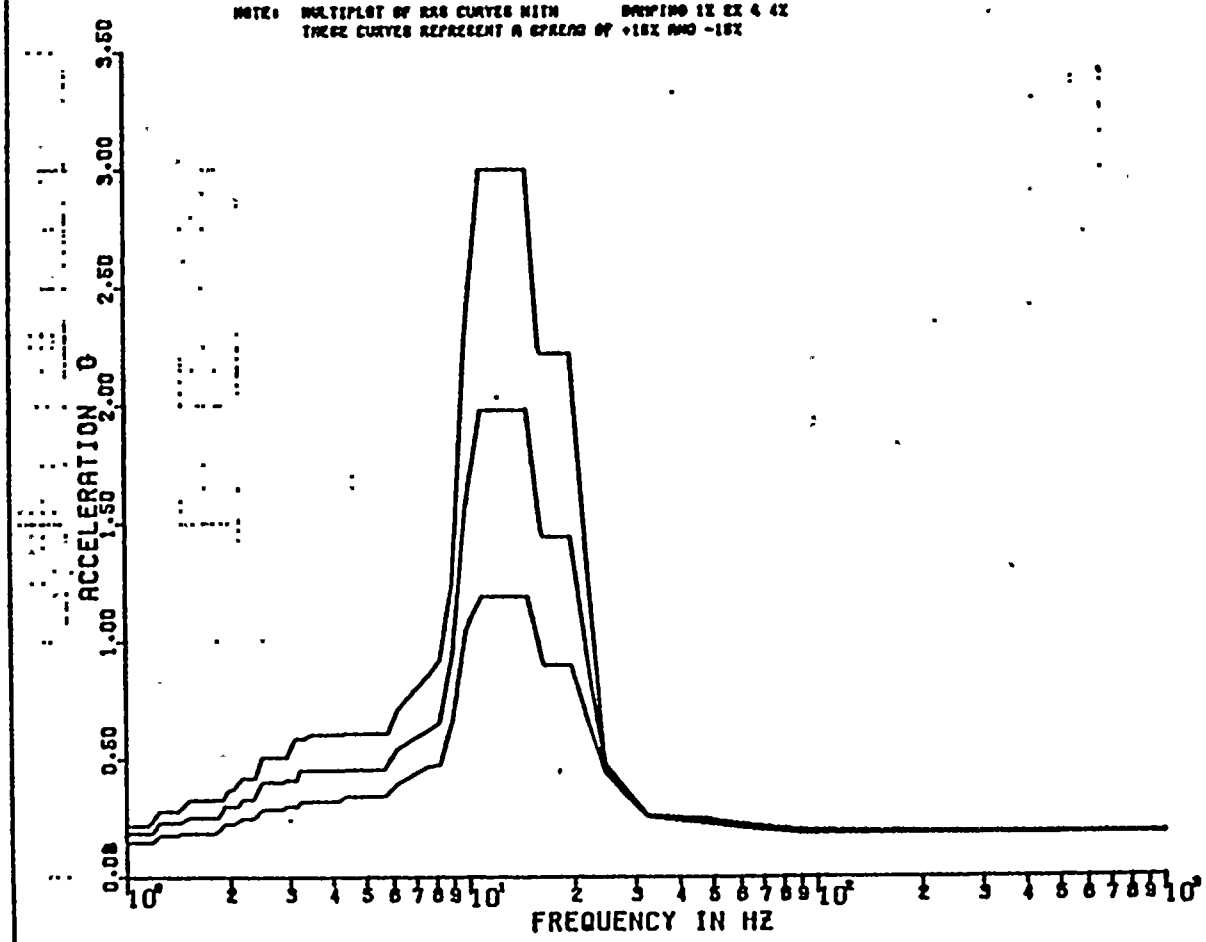
MICHAEL K OO

DISK CURVE SET NO.16

VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 70

PSPECTRA VER 01 LEV 08 IIC (88E) 11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. PRIMARY CONT. (ELEV 255.87 FT)

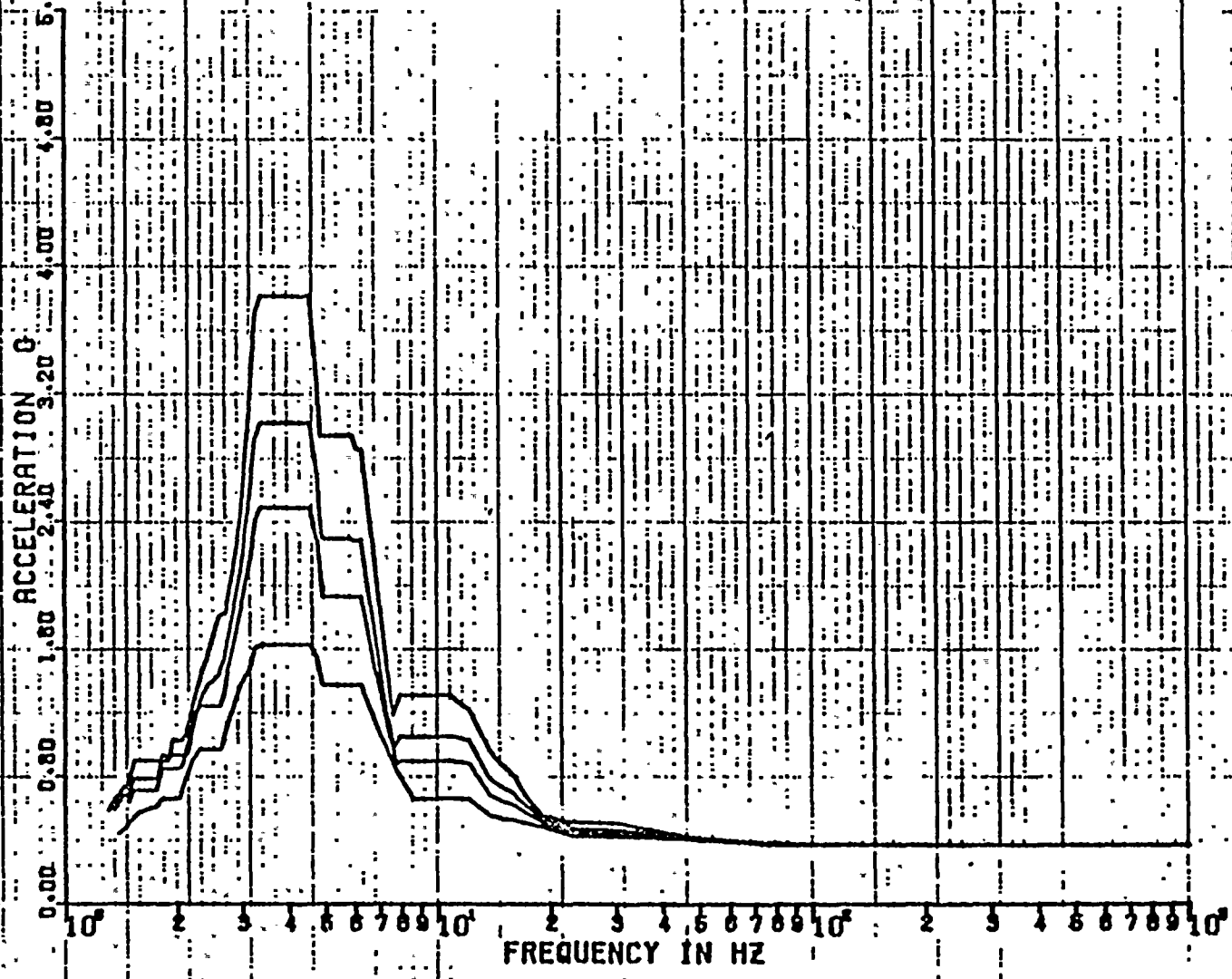
MS1765

MICHAEL K OO ...

DISK CURVE SET NO.18 HOR DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +18% AND -18%



REF. 70

PSPECTRA VER 01 LEV 08 AIC (SSE) 11 DEC 1982

MS1765 000000091

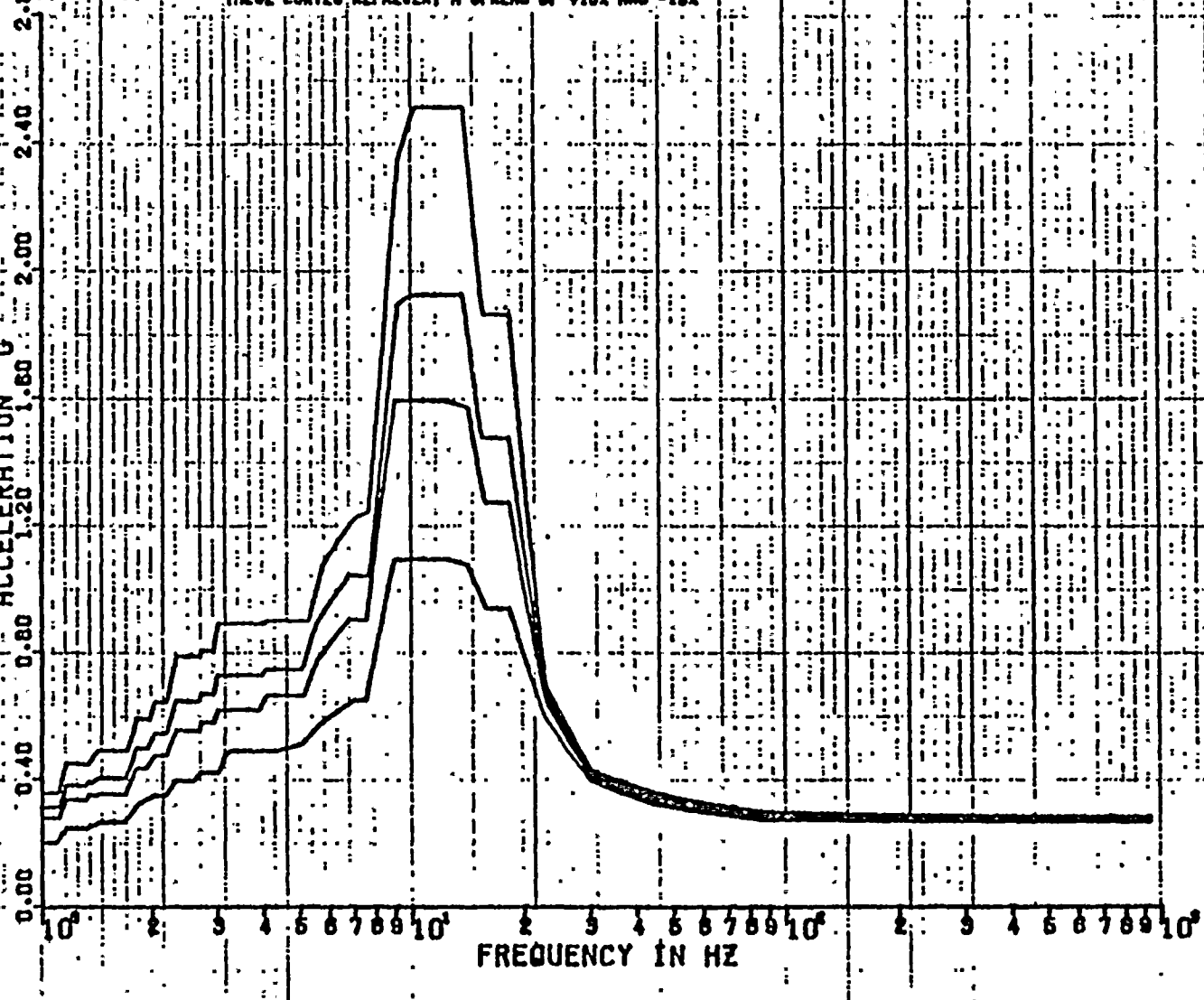
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. PRIMARY CONT. (ELEV 28.67 FT)

MICHAEL K OO

DISK CURVE SET NO.16 VER DIRECTION DAMPING VALUES = 0.020 0.030 0.040 0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 70

0000000027

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

MS1765

MIRDARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

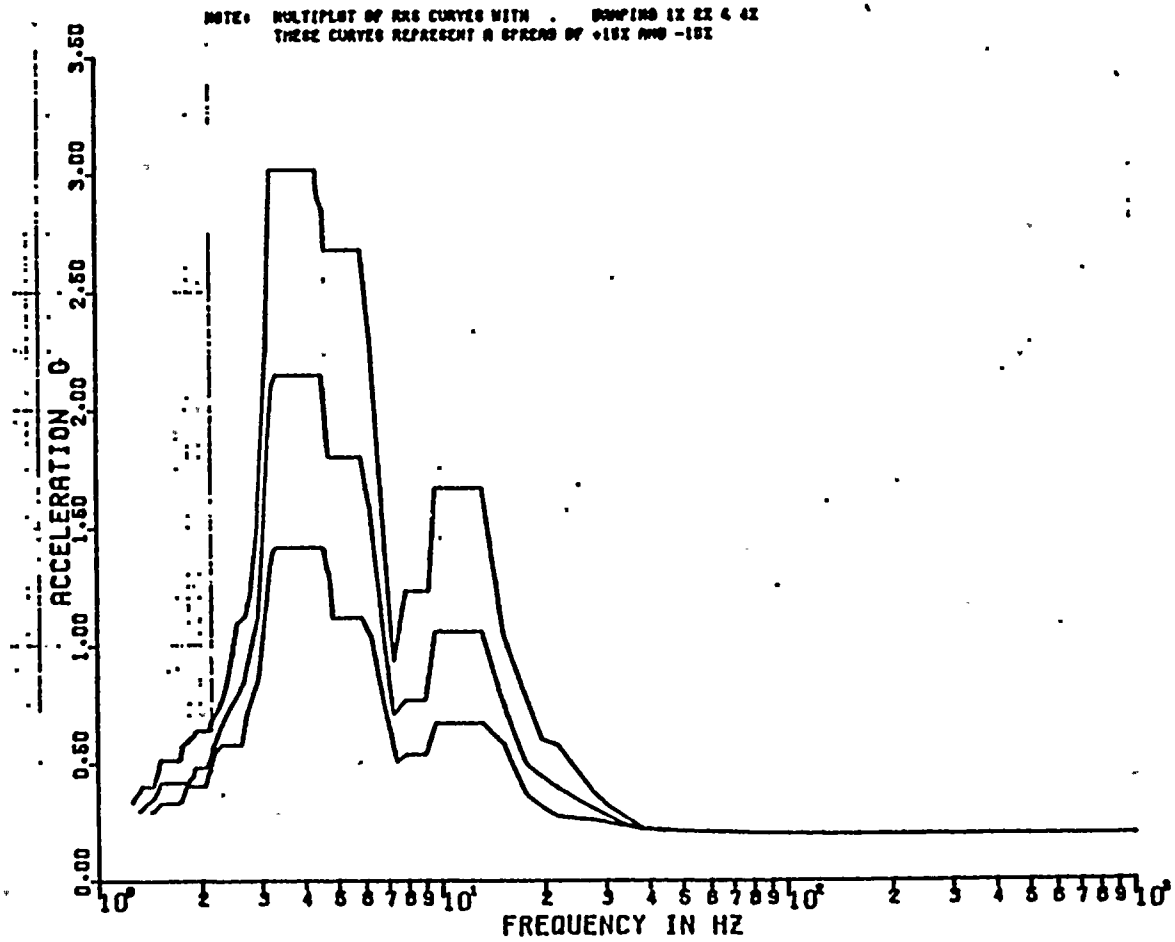
RRS OF ACC. DRYWELL FLOOR (ELEV 238.0 FT)

MICHAEL K OO

DISK CURVE SET NO.17 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH . DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 71

0000000028

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF RCC. DRYWELL FLOOR (ELEV 238.0 FT)

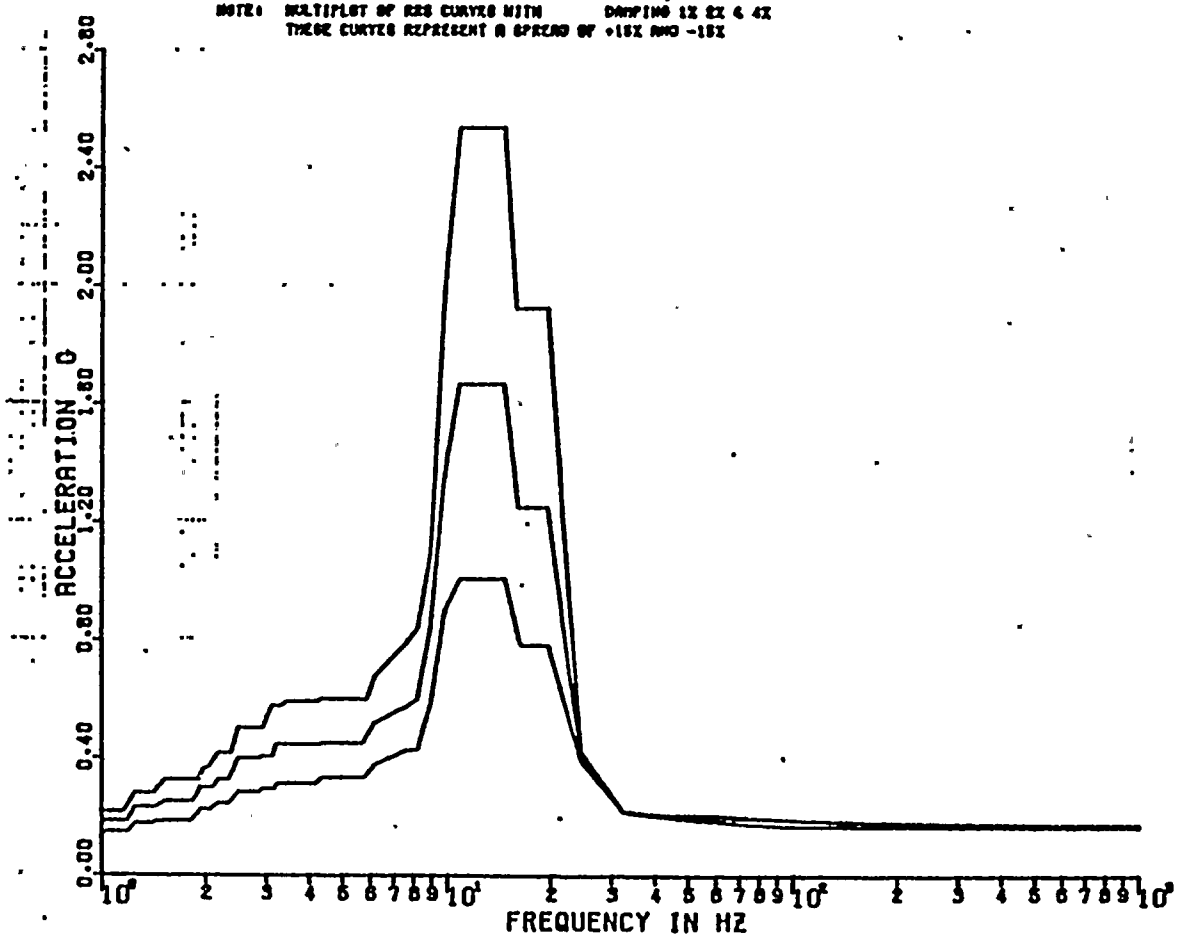
MS1765

MICHAEL K OO

DISK CURVE SET NO.17 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 111

PSPECTRA VER 01. LEV 08 SEISMIC (SSE) 11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. DRYWELL FLOOR (ELEV 233.0 FT)

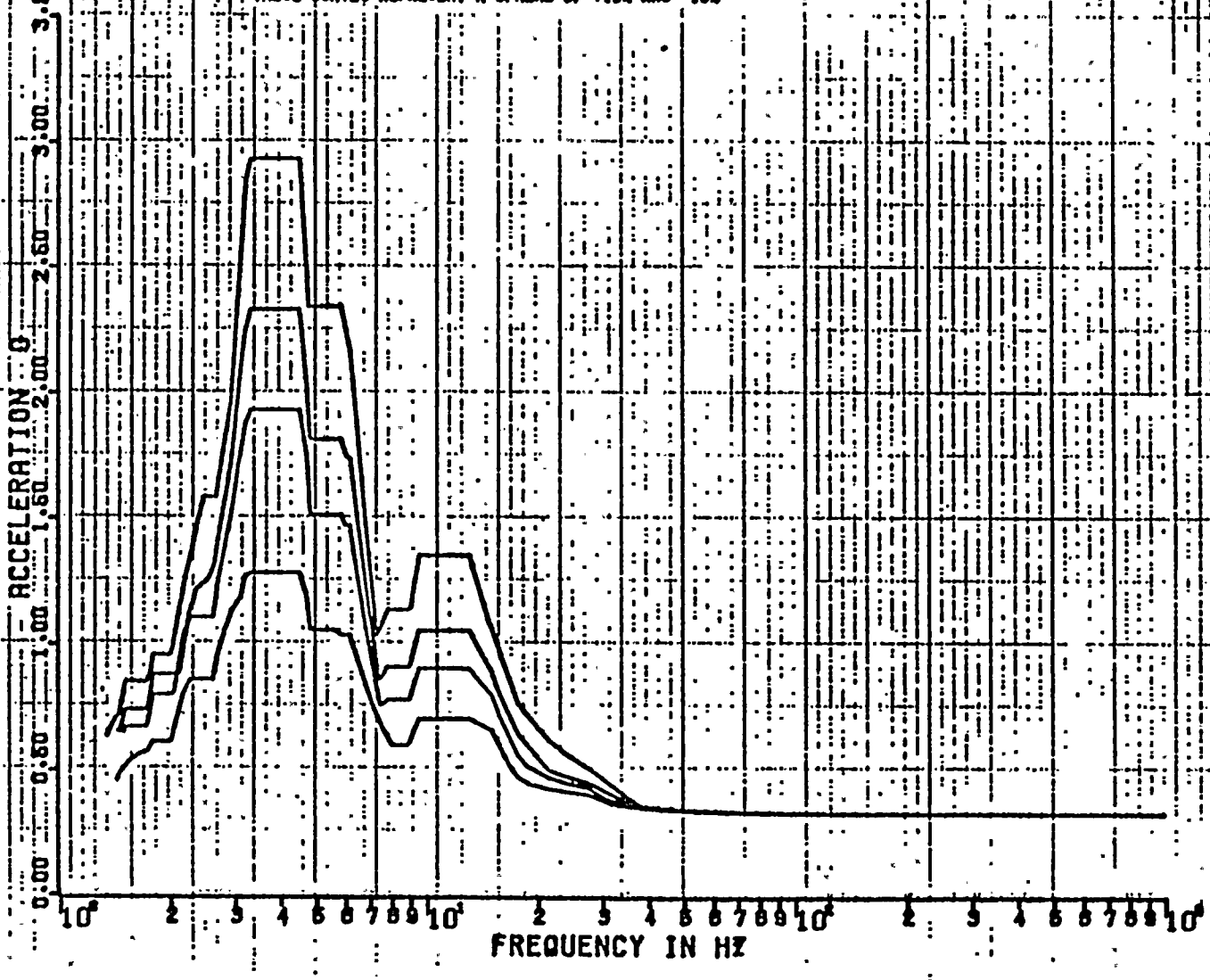
MS1765

MICHAEL K OO

DISK CURVE SET NO.17 HOR DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTES: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 71

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982

0000000093

MS1765

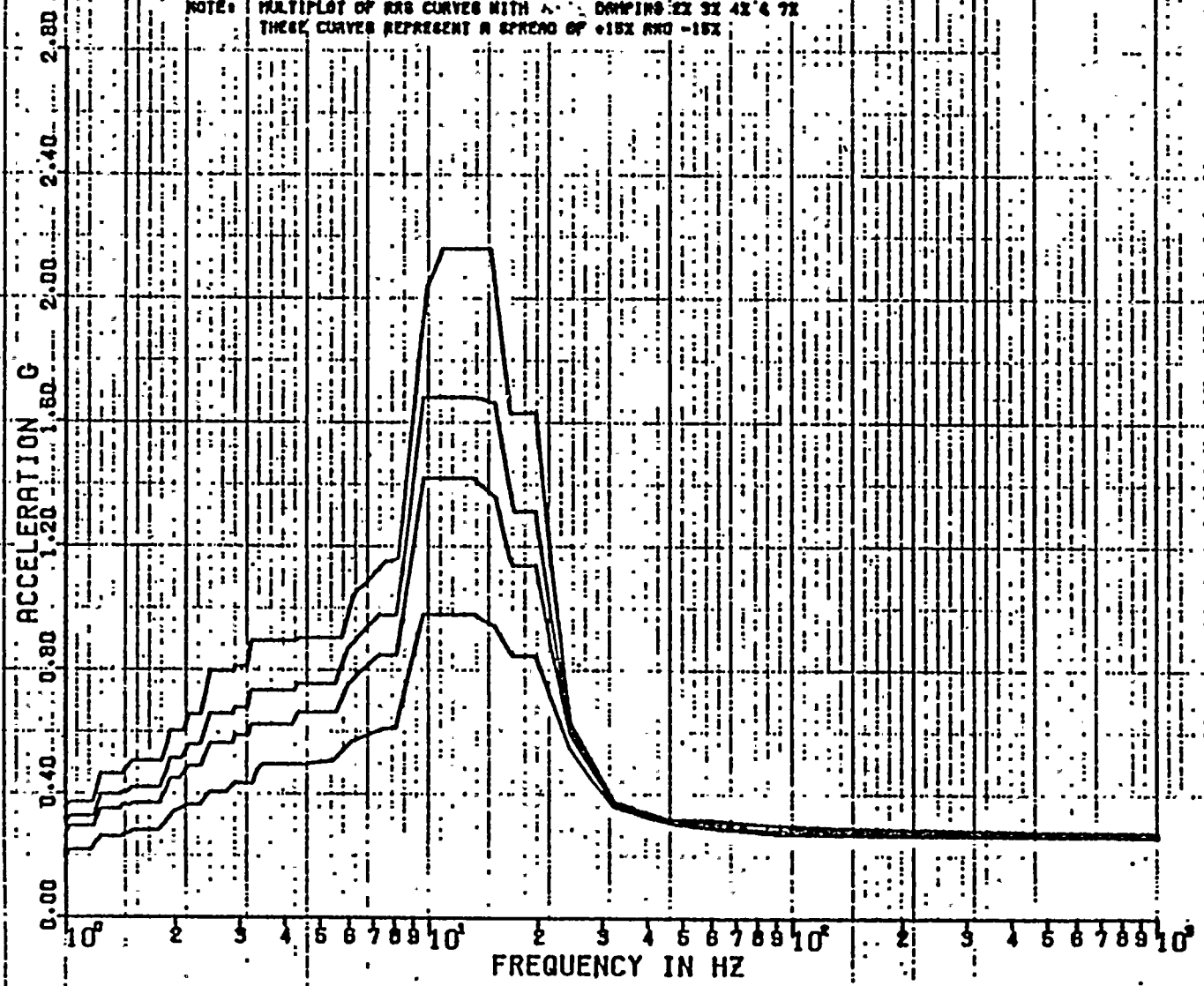
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177
RMS OF ACC. DRYWELL FLOOR (ELEV 238.0 FT)

MICHAEL K DO

DISK CURVE SET NO.17 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



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0000000029

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

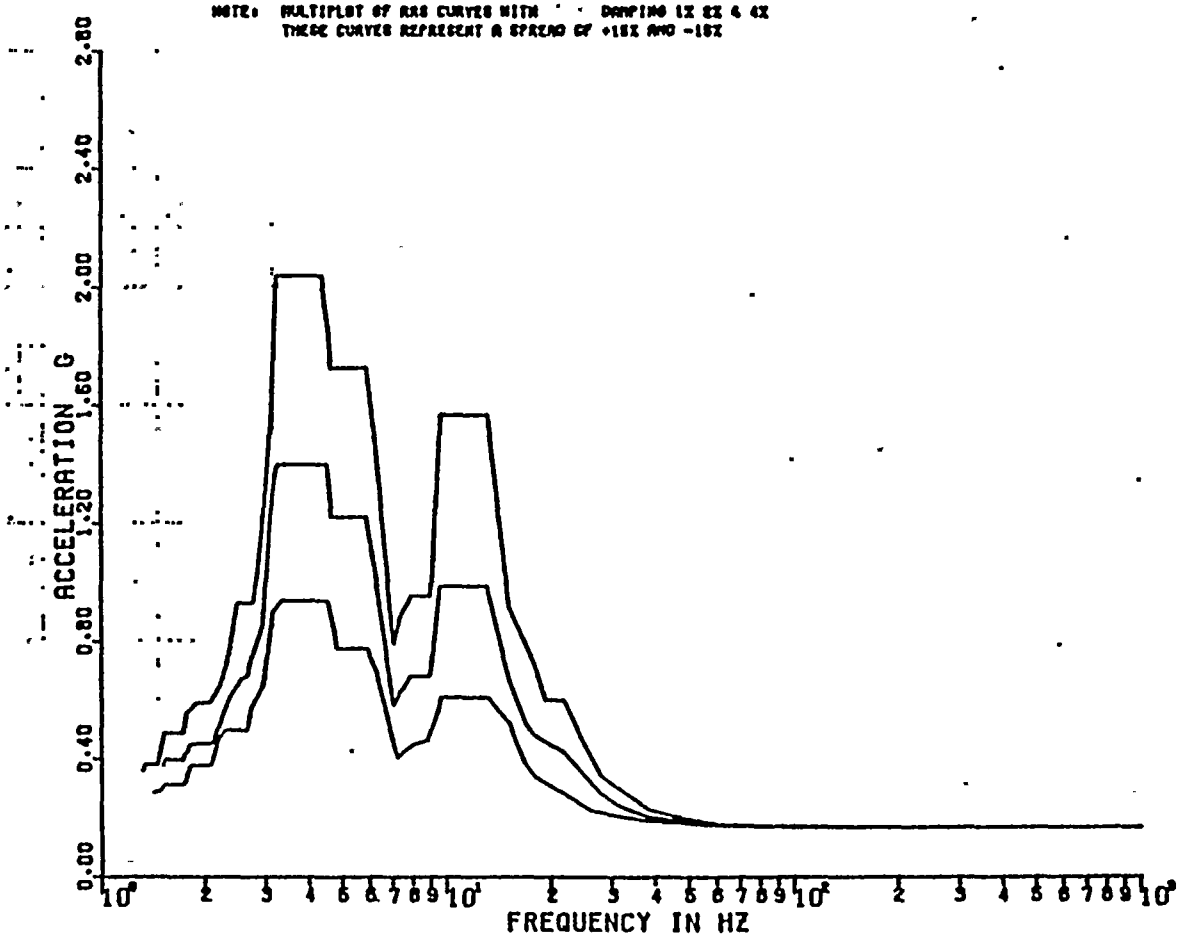
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177
RRS OF ACC. PRIMARY CONT. (ELEV 218.33 FT)

MS1765

MICHAEL K OO

DISK CURVE SET NO.19 HOR DIRECTION DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 72

0000000030

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. PRIMARY CONT. (ELEV 218.33 FT)

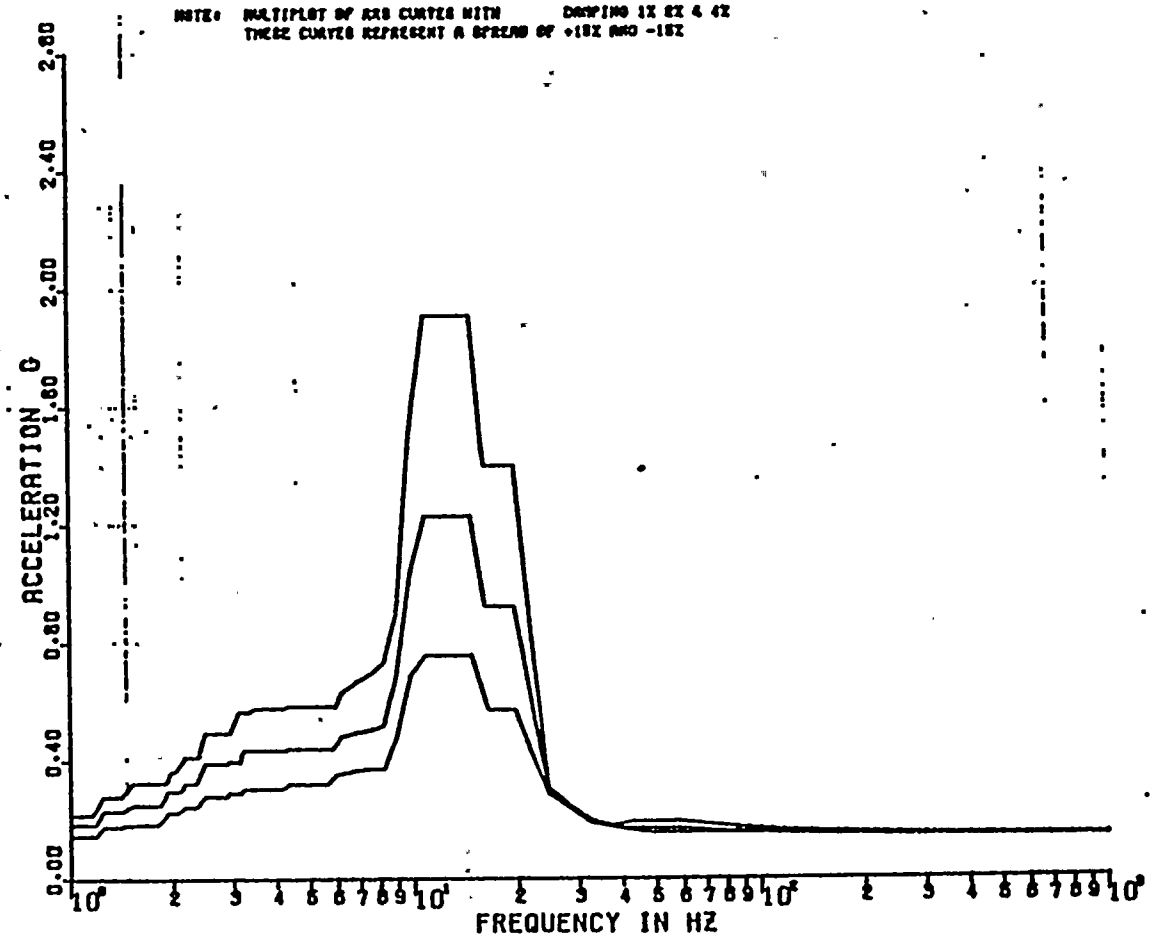
MS1765

MICHAEL K OO

DISK CURVE SET NO.19 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 72

PSPECTRA VER 01 . LEV 08 . SEISMIC (SSE) 11 DEC 1982

MS1765 0000000034

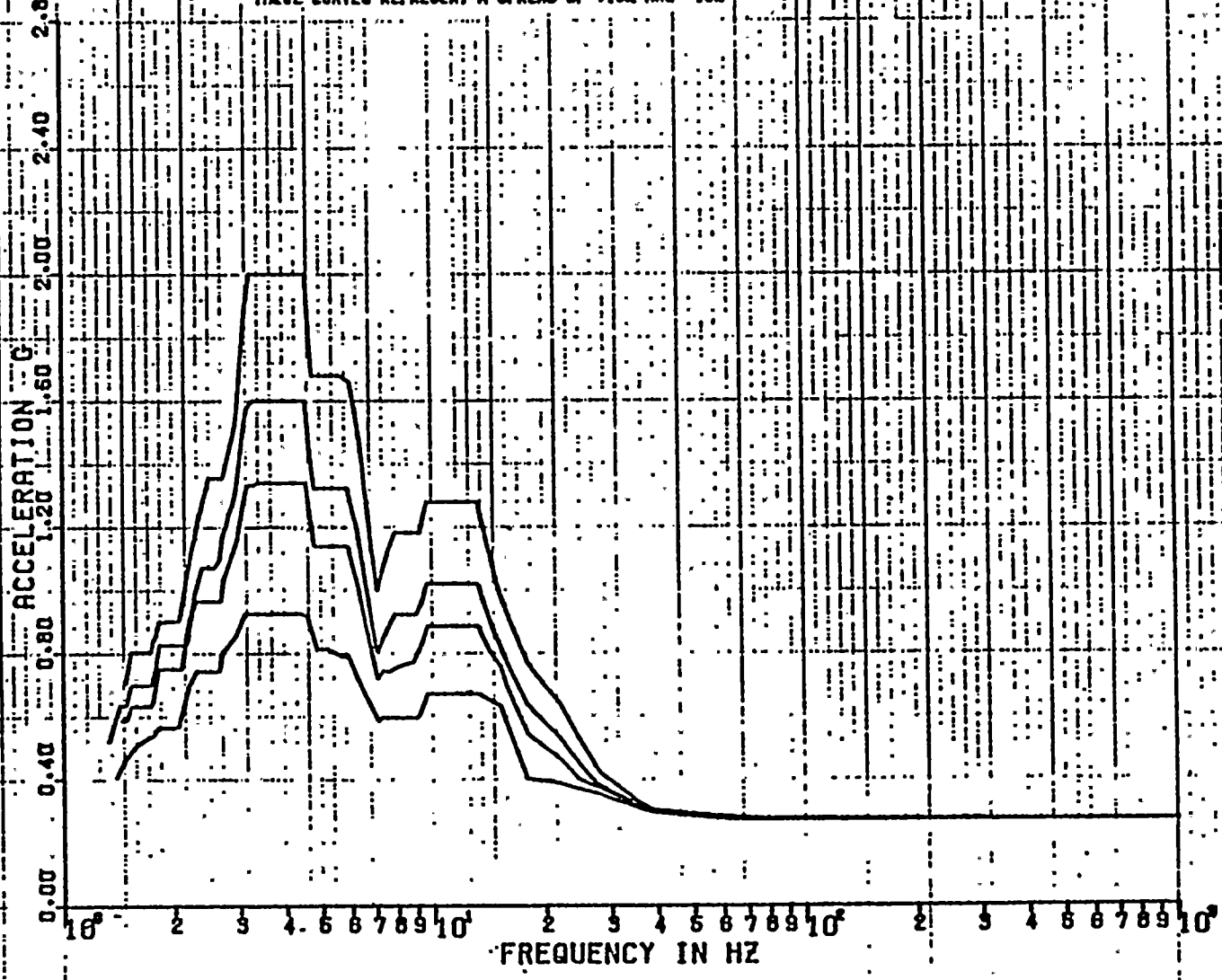
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177
RRS OF ACC. PRIMARY CONT. (ELEV 218.33 FT)

MICHAEL K.DO

DISK CURVE SET NO.19 HOR DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH , DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF. 72

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

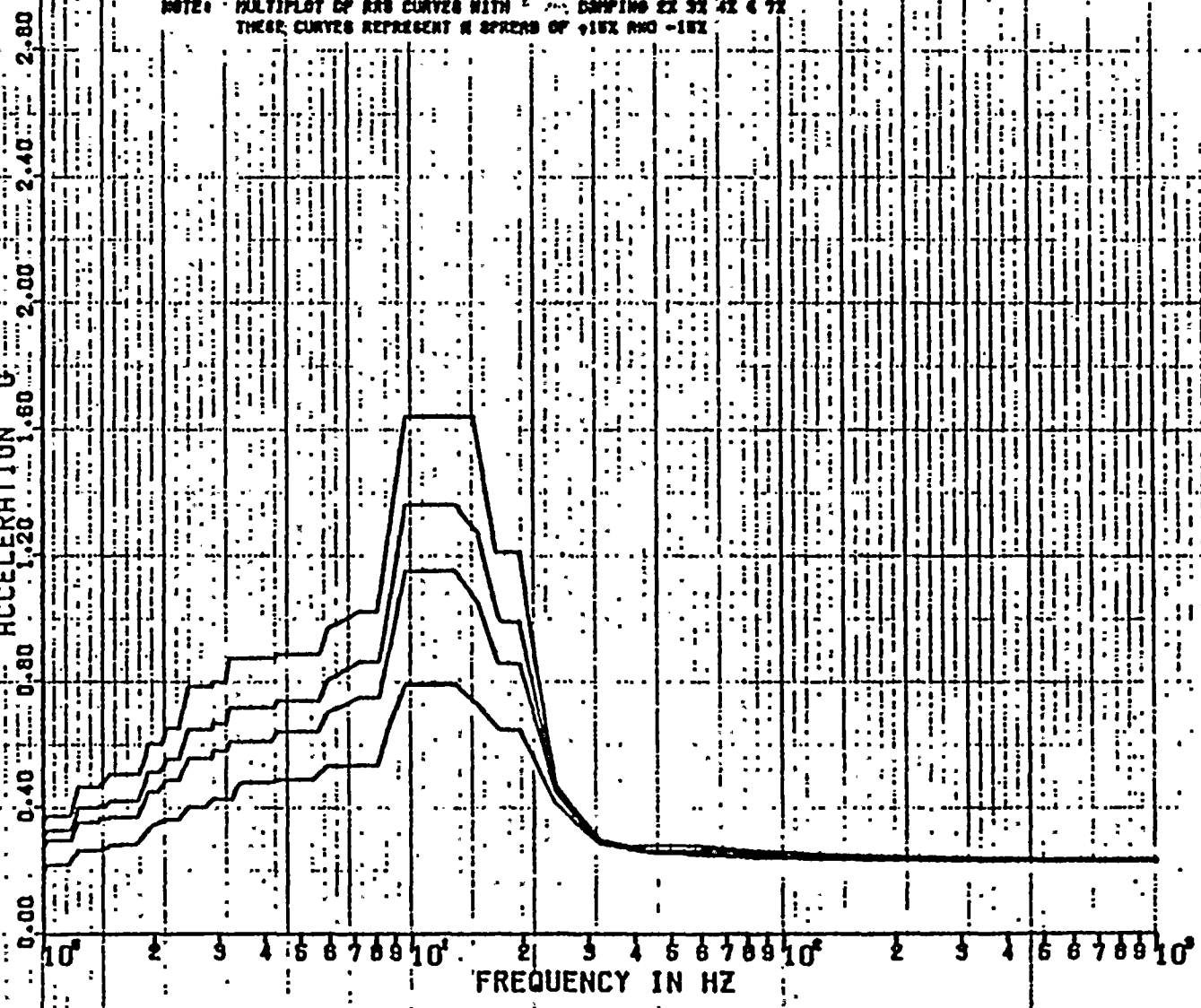
RRS OF ACC. PRIMARY CONT. (ELEV 216.33 FT)

MS1765 0000000095

MICHAEL K OO

DISK CURVE SET NO.19 VER DIRECTION DAMPING VALUES = 0.020 0.030 0.040 0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF. 72

0000000031

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

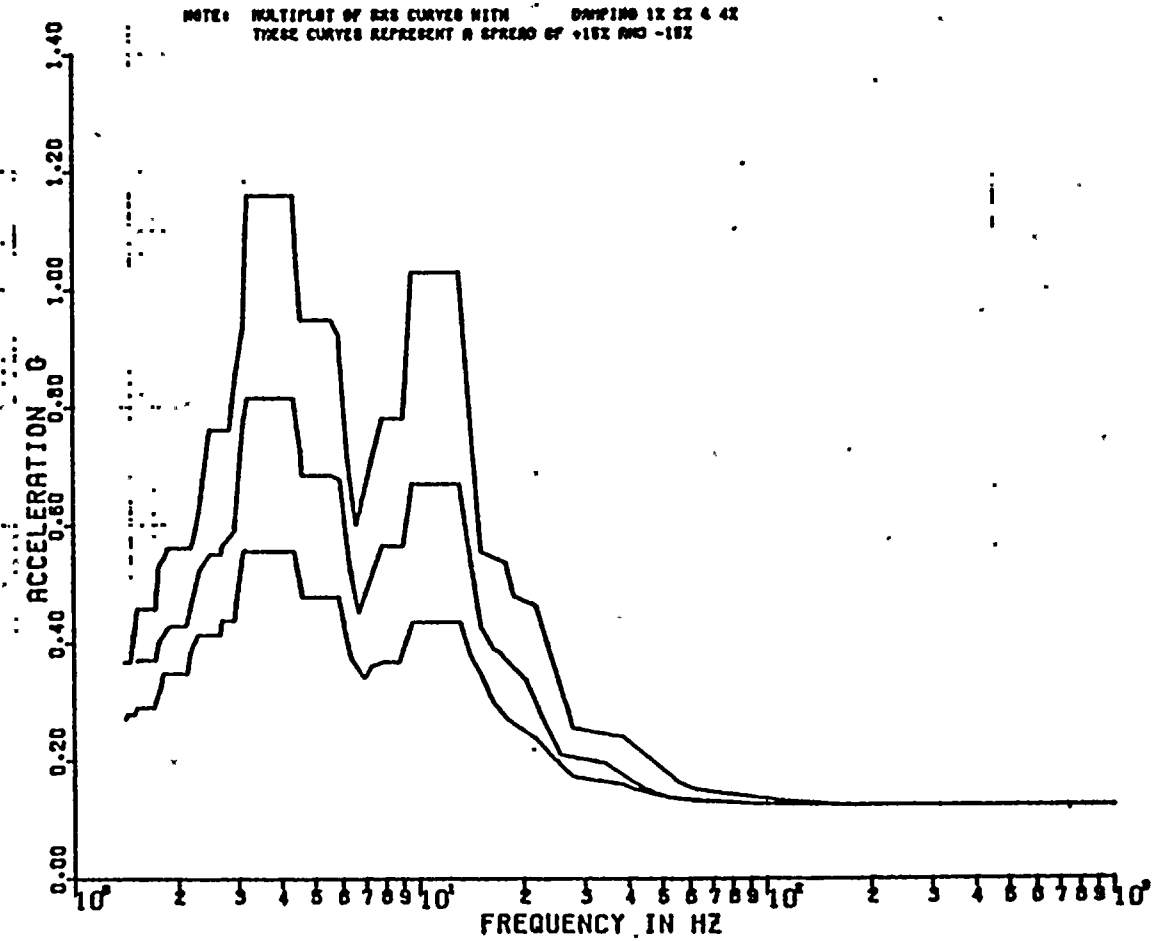
RRS OF ACC. PRIMARY CONT. (ELEV 198.67 FT)

MS1765

MICHAEL K DO

DISK CURVE SET NO.21 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 73

0000000032

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

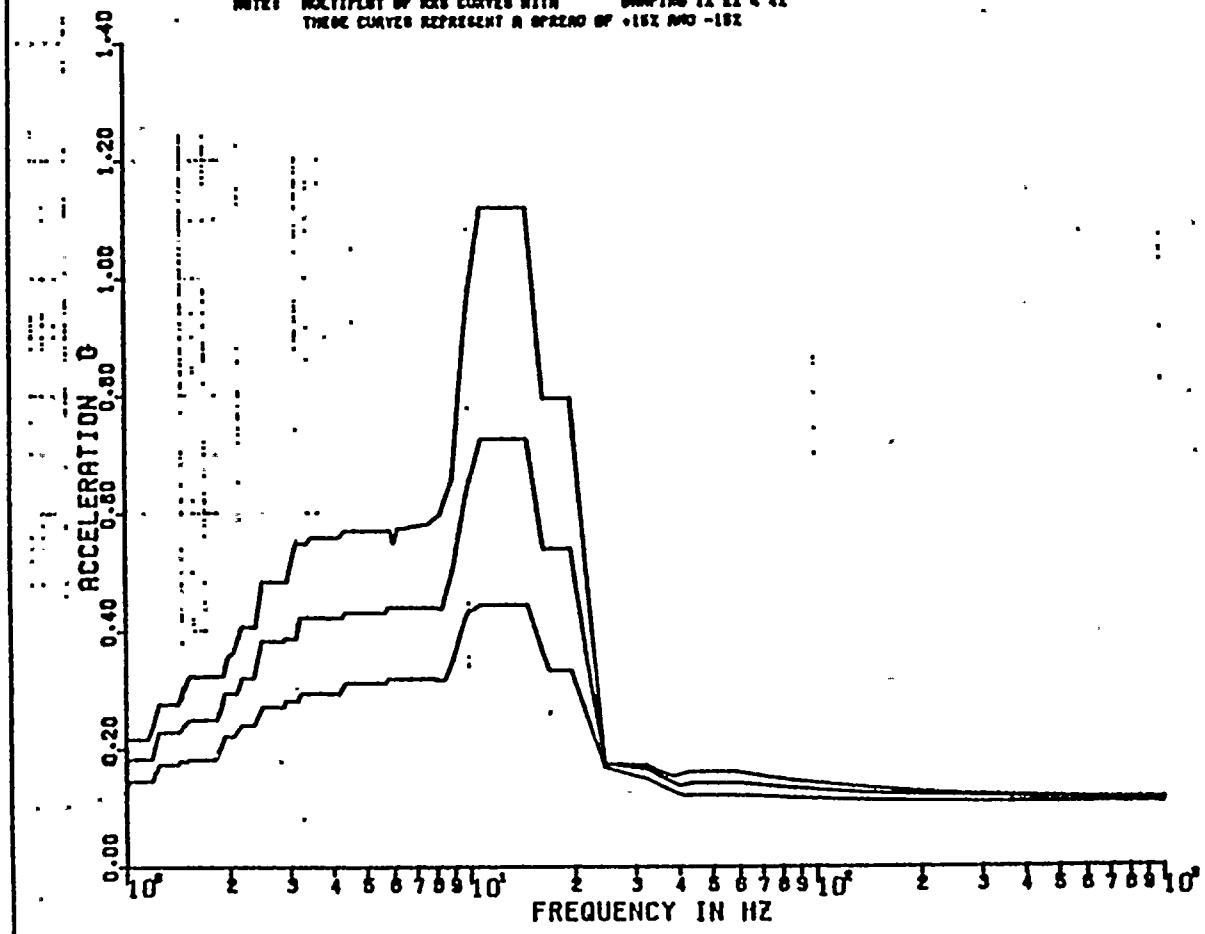
RRS OF ACC. PRIMARY CONT. (ELEV 198.87 FT)

MS1765

MICHAEL K OO

DISK CURVE SET NO.21 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 13

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. PRIMARY CONT. (ELEV 186.87 FT)

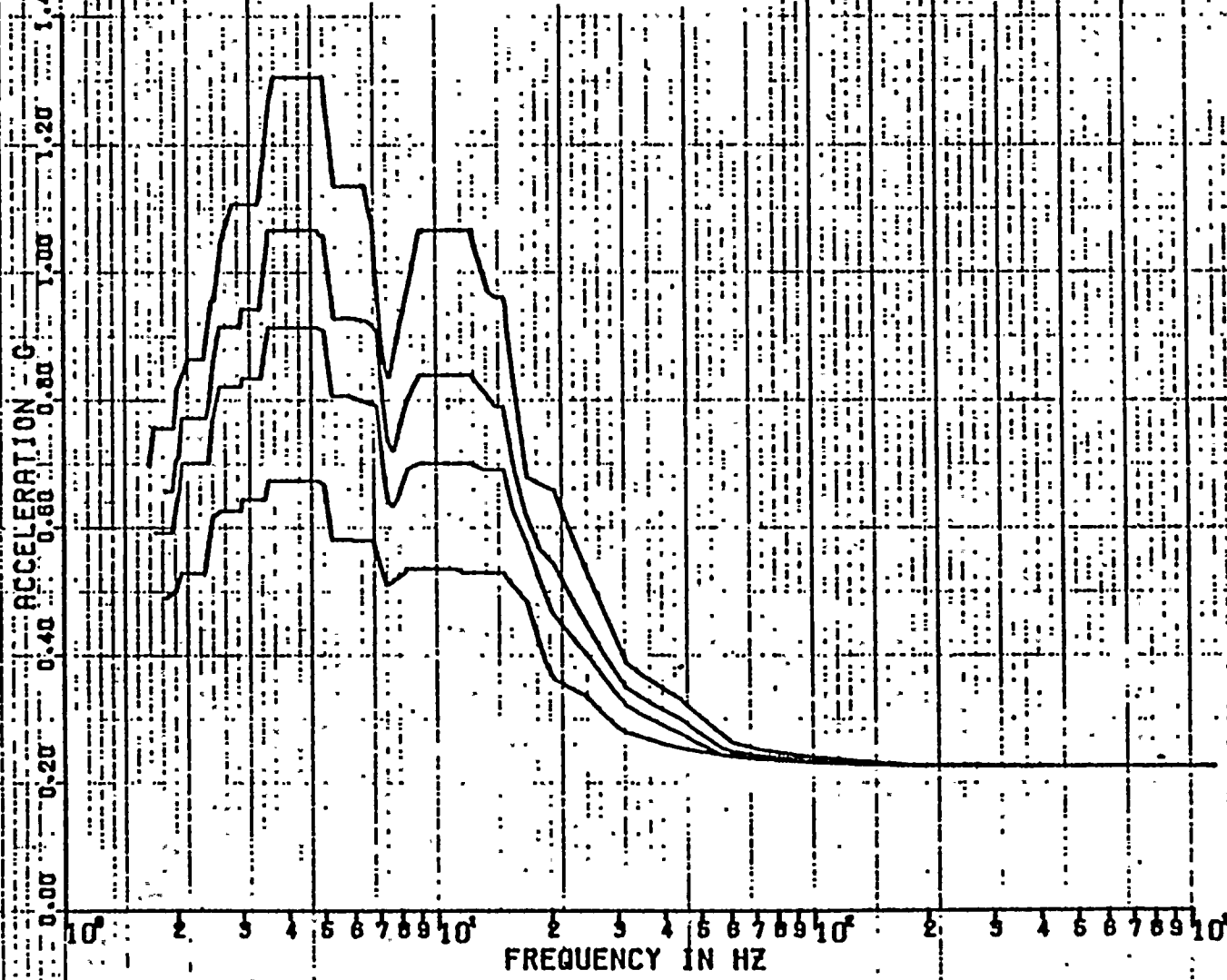
MS1765 00000096

MICHAEL K QO

DISK CURVE SET NO.21 HOR DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF. 13

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. PRIMARY CONT. (ELEV 198.67 FT)

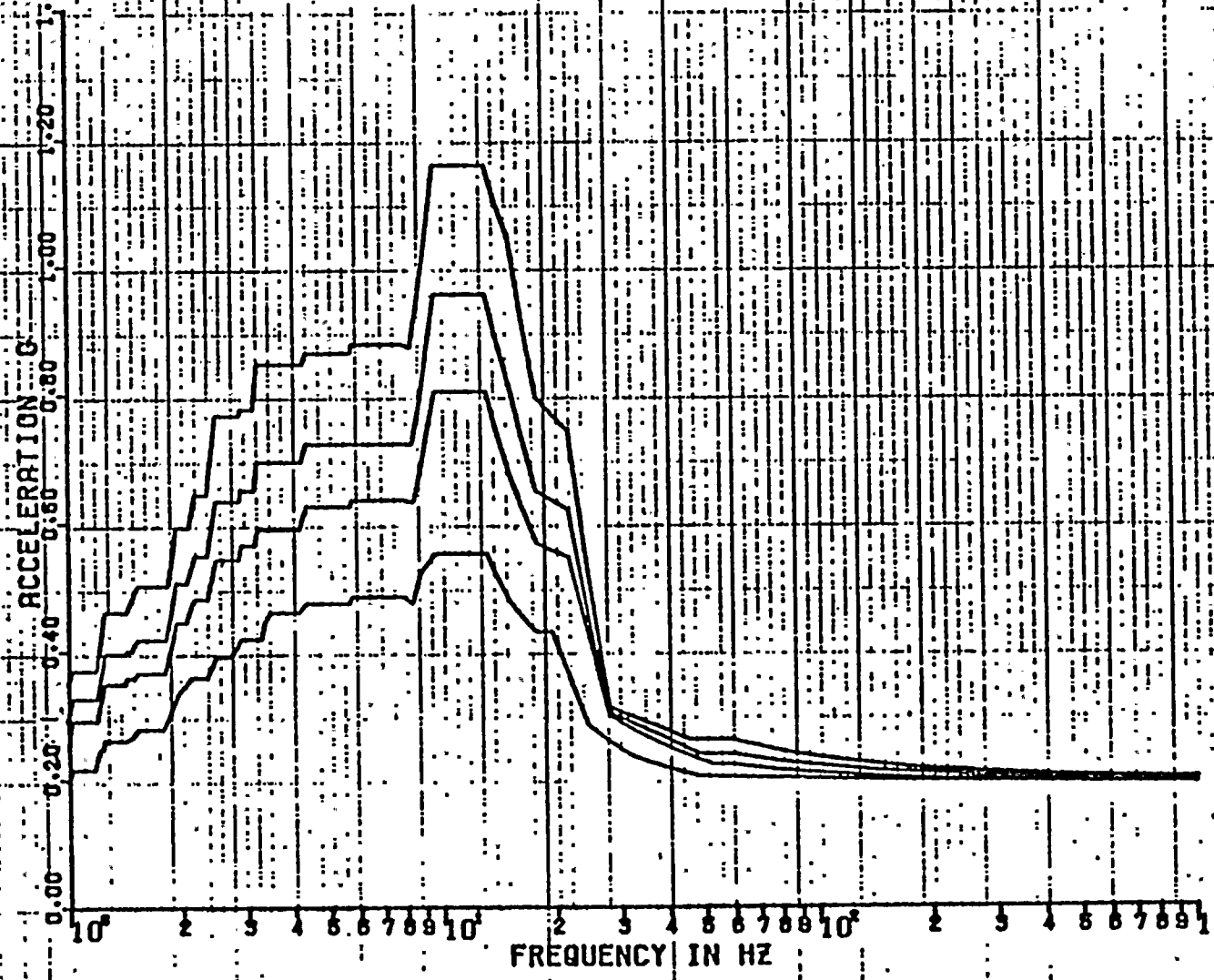
MS1765

MICHAEL K OO

DISK CURVE SET NO.21 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 73

0000000033

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

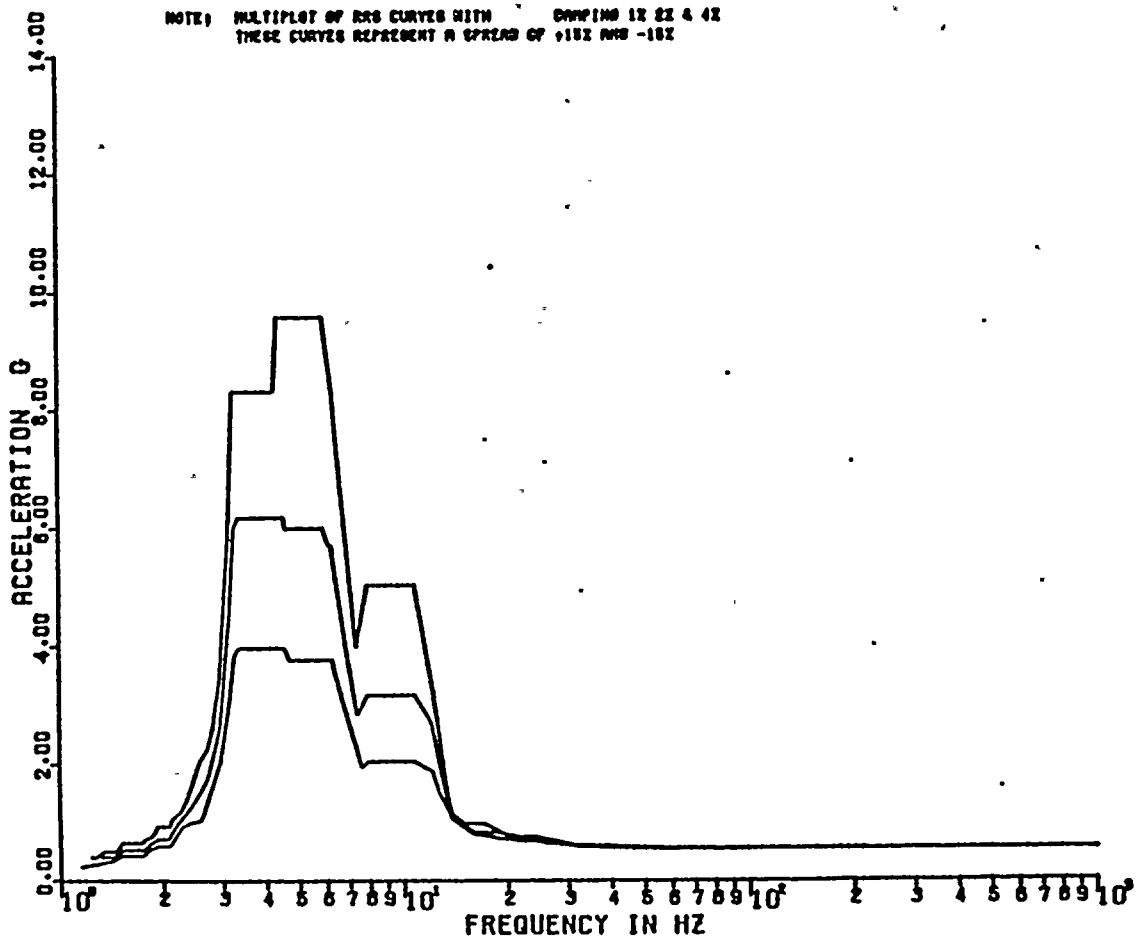
NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177
RRS OF ACC. SHIELD WALL (ELEV.315.08 FT.)

MS1765

MICHAEL K OO

DISK CURVE SET NO.1 HOR DIRECTION DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 74

0000000034

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177

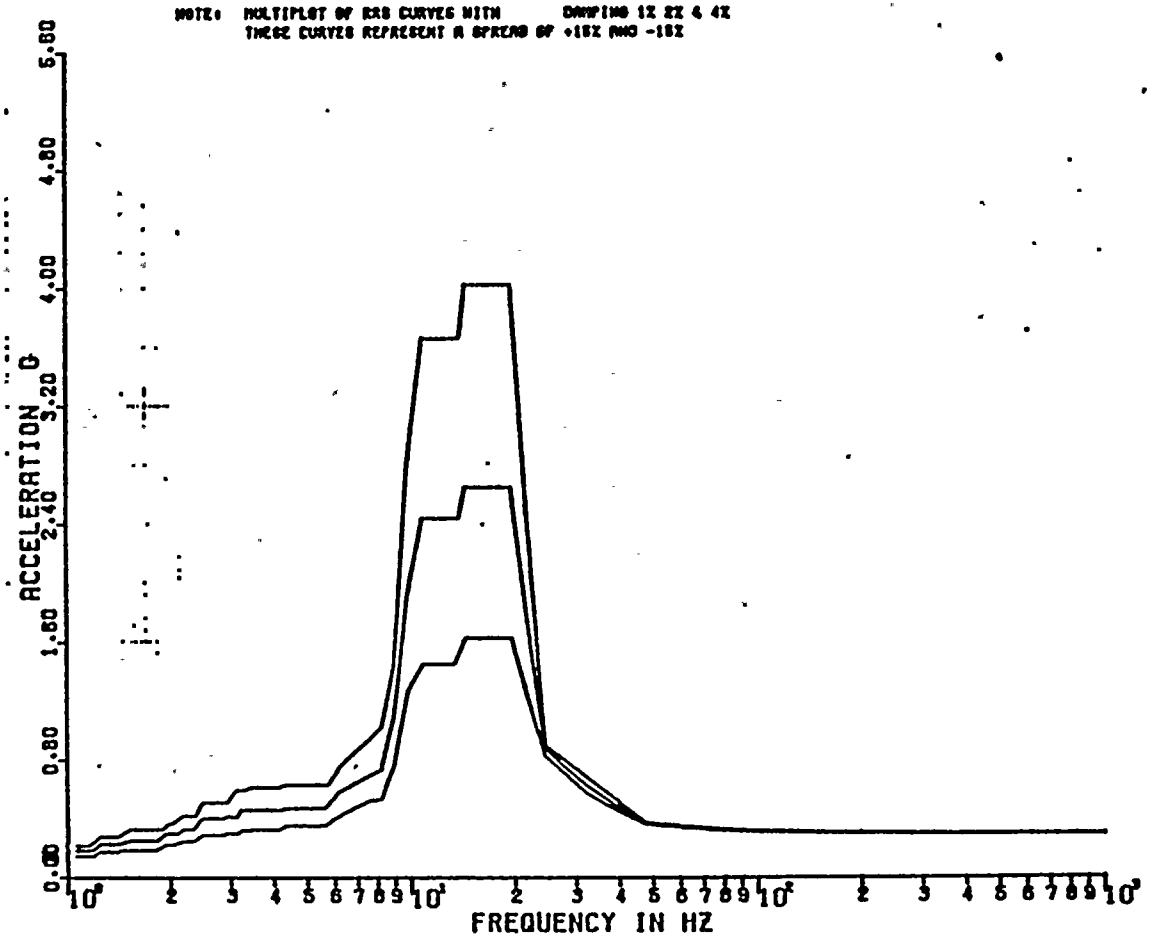
RMS OF ACC. SHIELD WALL (ELEV.315.08 FT.)

MS1765

MICHAEL K OO

DISK CURVE SET NO.1 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 74

PSPECTRA VER 01 LEV 08 IIC (SSE) 11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177

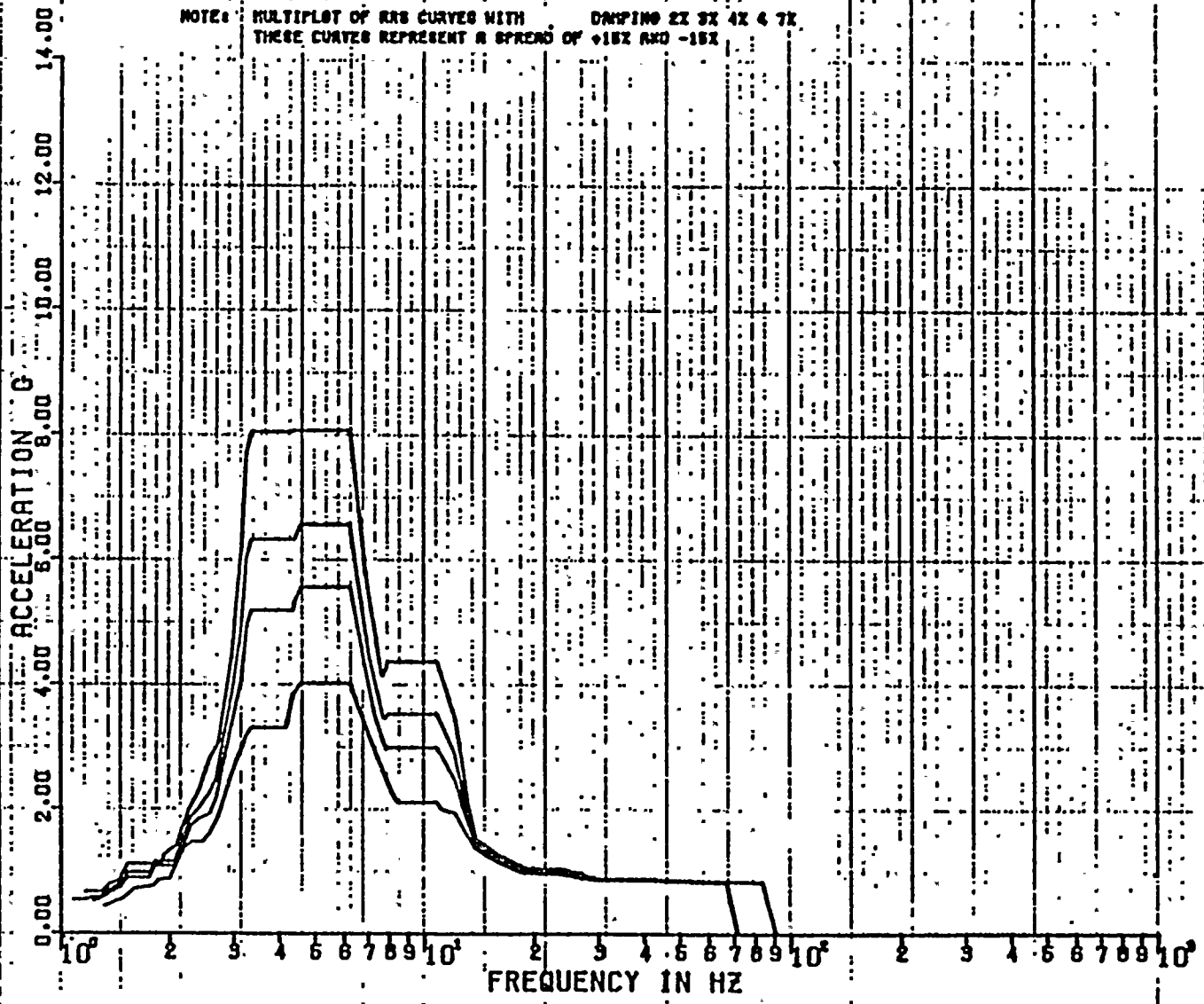
RRS OF ACC. SHIELD WALL (ELEV.315.08 FT.)

MS1765

MICHAEL K OO

DISK CURVE SET NO.1 HOR DIRECTION DAMPING VALUES = 0.020 0.030 0.040 0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF. 74

PSPECTRA VER 01 LEV 08 S C (88E) 11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177

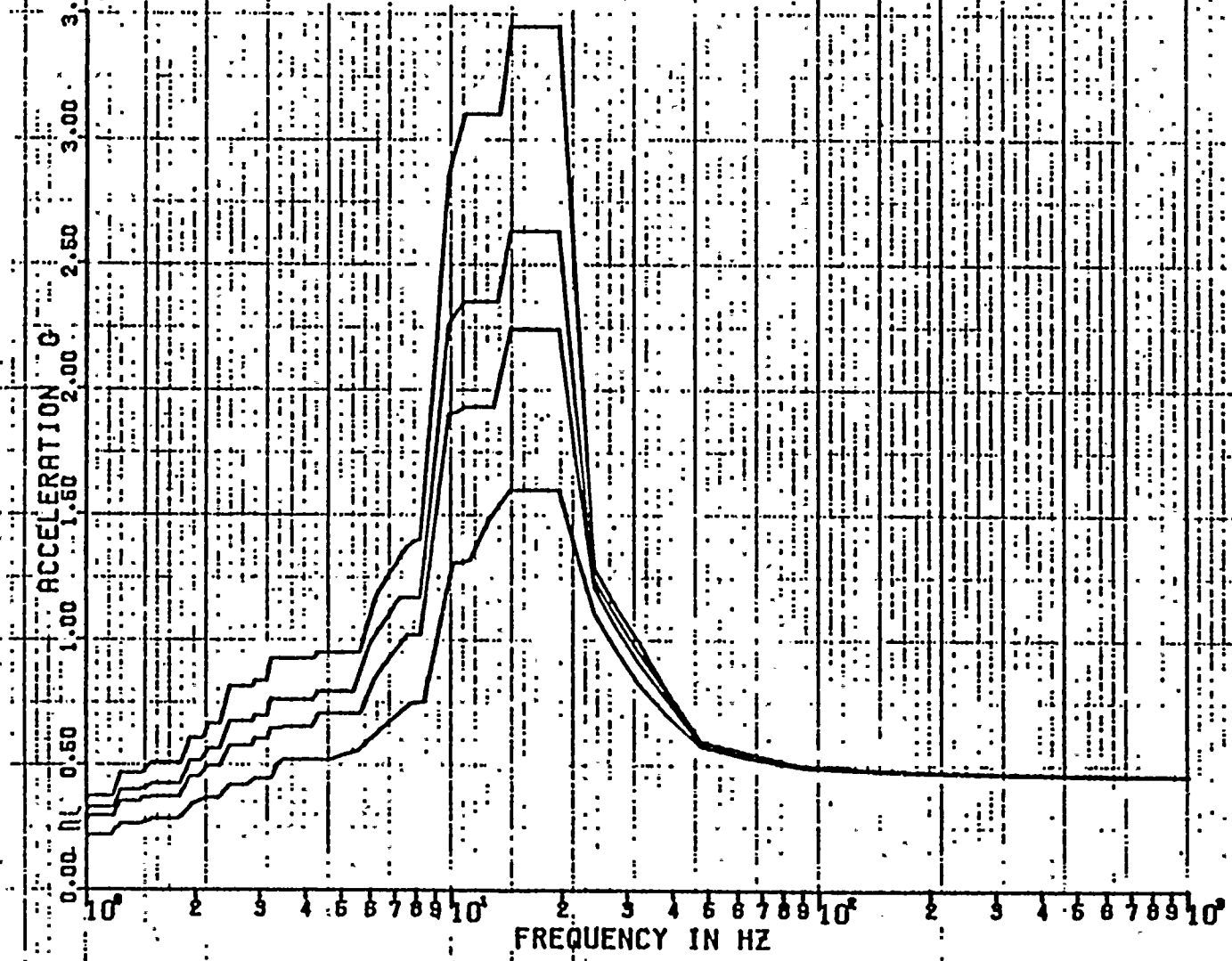
RRS.OF ACC. SHIELD WALL (ELEV.315.08 FT.)

MS1765

MICHAEL K DO

DISK CURVE SET NO.1 VER DIRECTION DAMPING VALUES = 0.020 0.030 0.040 0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%.
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



0000000035

PSPECTRA VER 01 LEV 08 - SEISMIC (OBE) 9 DEC 1982

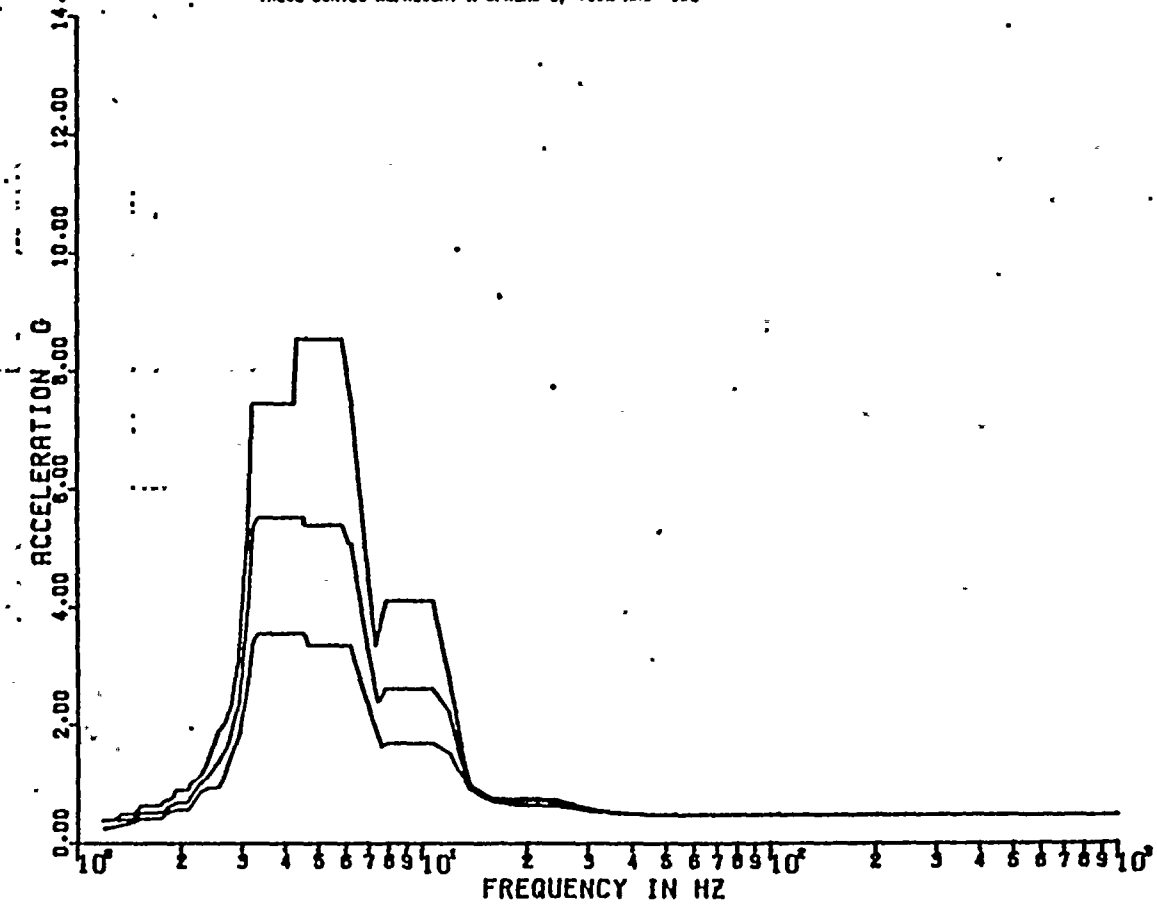
NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177
RRS OF ACC. SHIELD WALL (ELEV 302.75 FT)

MS1765

MICHAEL K OO

DISK CURVE SET NO.3 HOR DIRECTION DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 75

0000000036

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

MIRDARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177

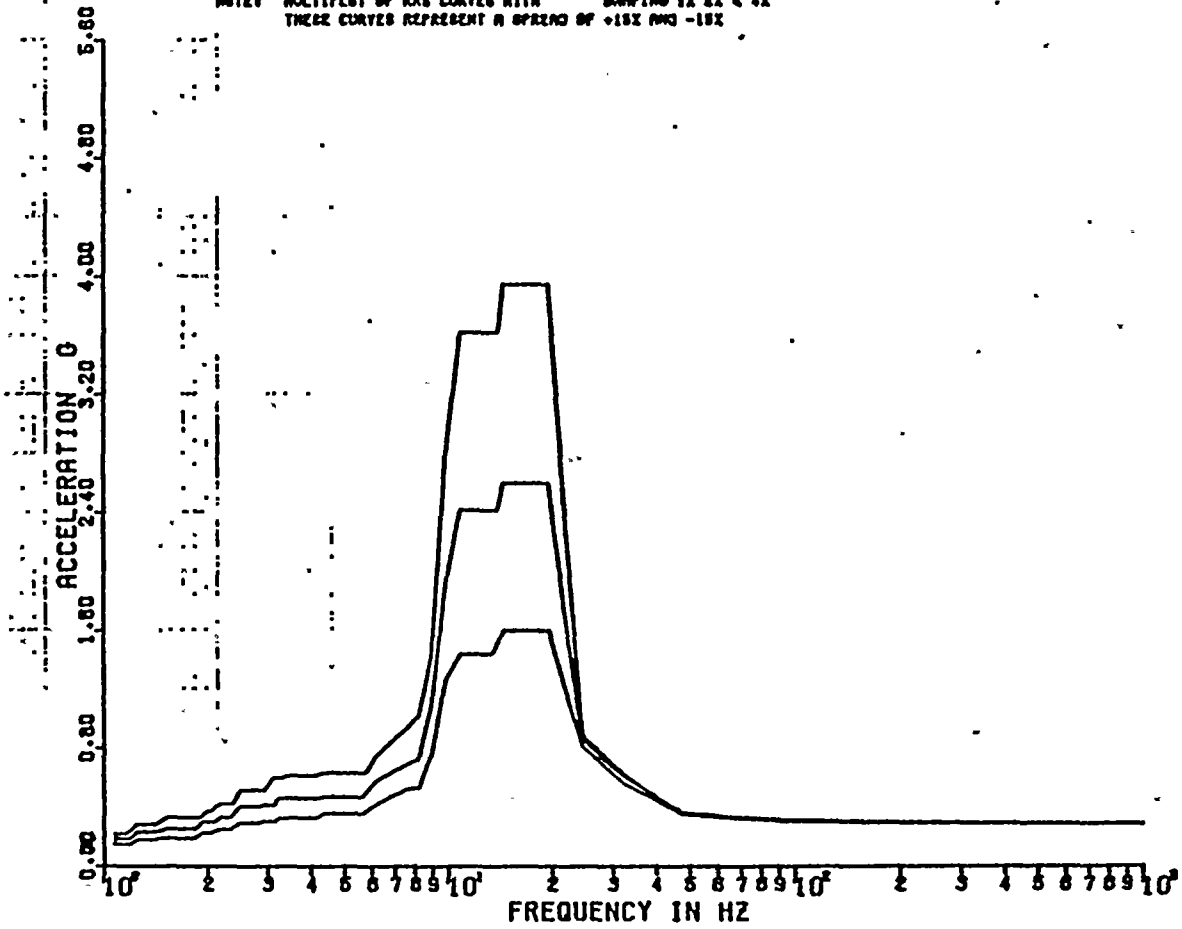
RRS OF ACC. SHIELD WALL (ELEV 302.75 FT)

MS1765

MICHAEL K DO

DISK CURVE SET NO.3 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 75

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982 0000000106

NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177

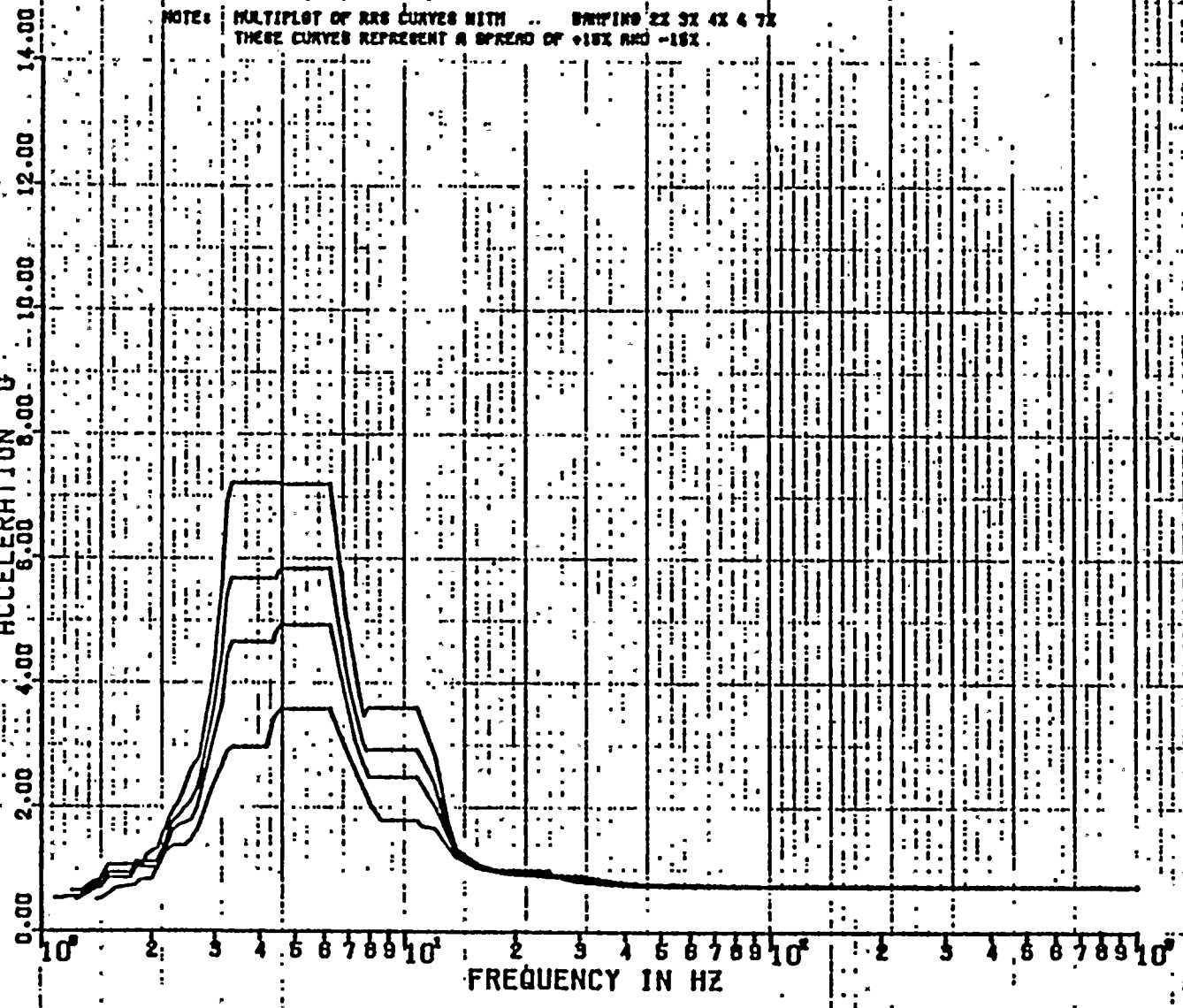
RRS OF ACC. SHIELD WALL (ELEV 302.75 FT)

MS1765

MICHAEL K OO

DISK CURVE SET NO.3 HOR DIRECTION DAMPING VALUES = 0.020 0.030 0.040 0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +18% AND -16%.



REF 75

PSPECTRA VER 01 LEV 08 SEI (SSE) 11 DEC 1982

0000101

MS1765

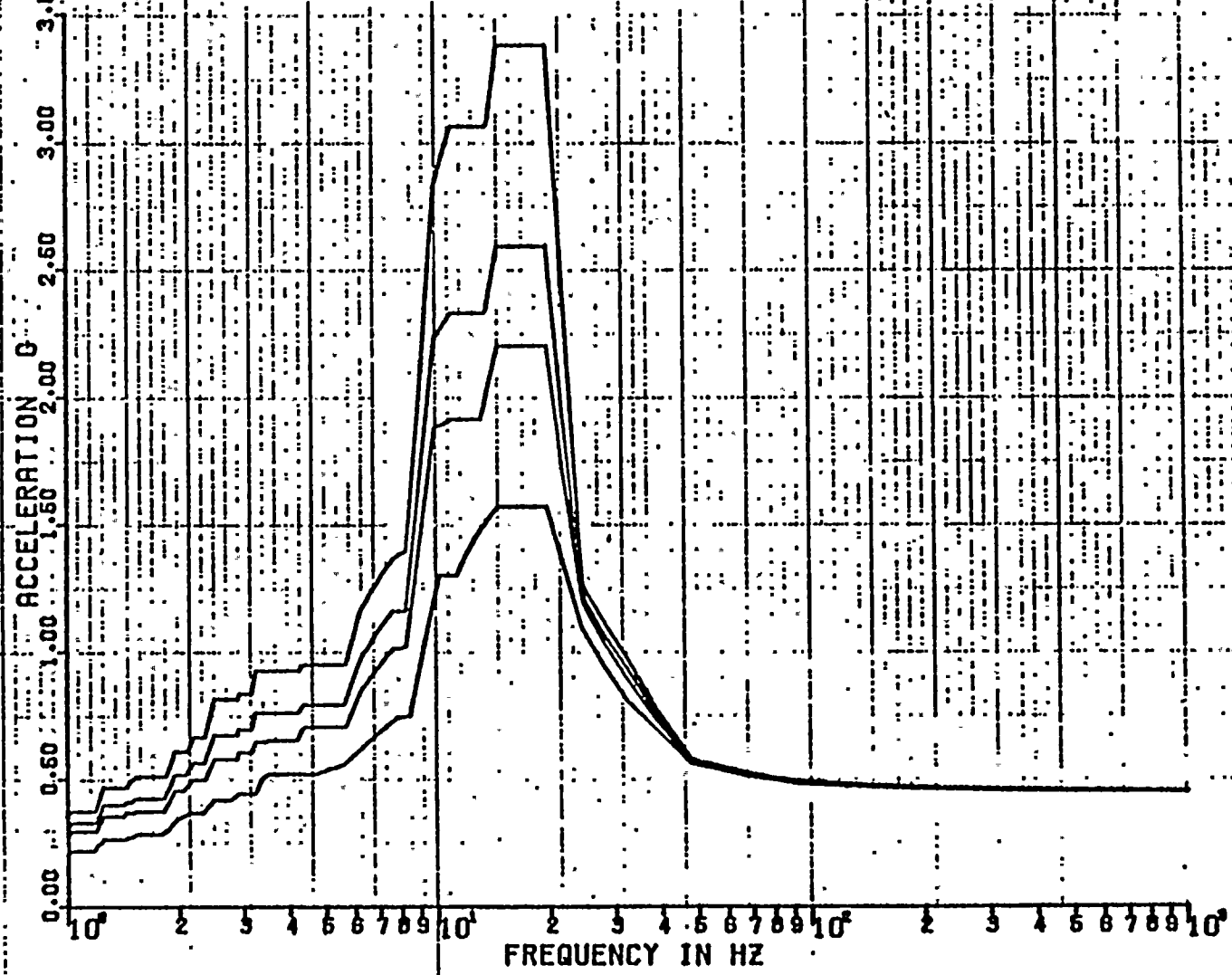
NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177

RRS OF ACC. SHIELD WALL (ELEV 302.75 FT)

MICHAEL K OO

DISK CURVE SET NO.3 VER DIRECTION DAMPING VALUES = 0.020 0.030 0.040 0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF. 75

0000000037

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177
RRS OF ACC. SHIELD WALL (ELEV 290.78 FT)

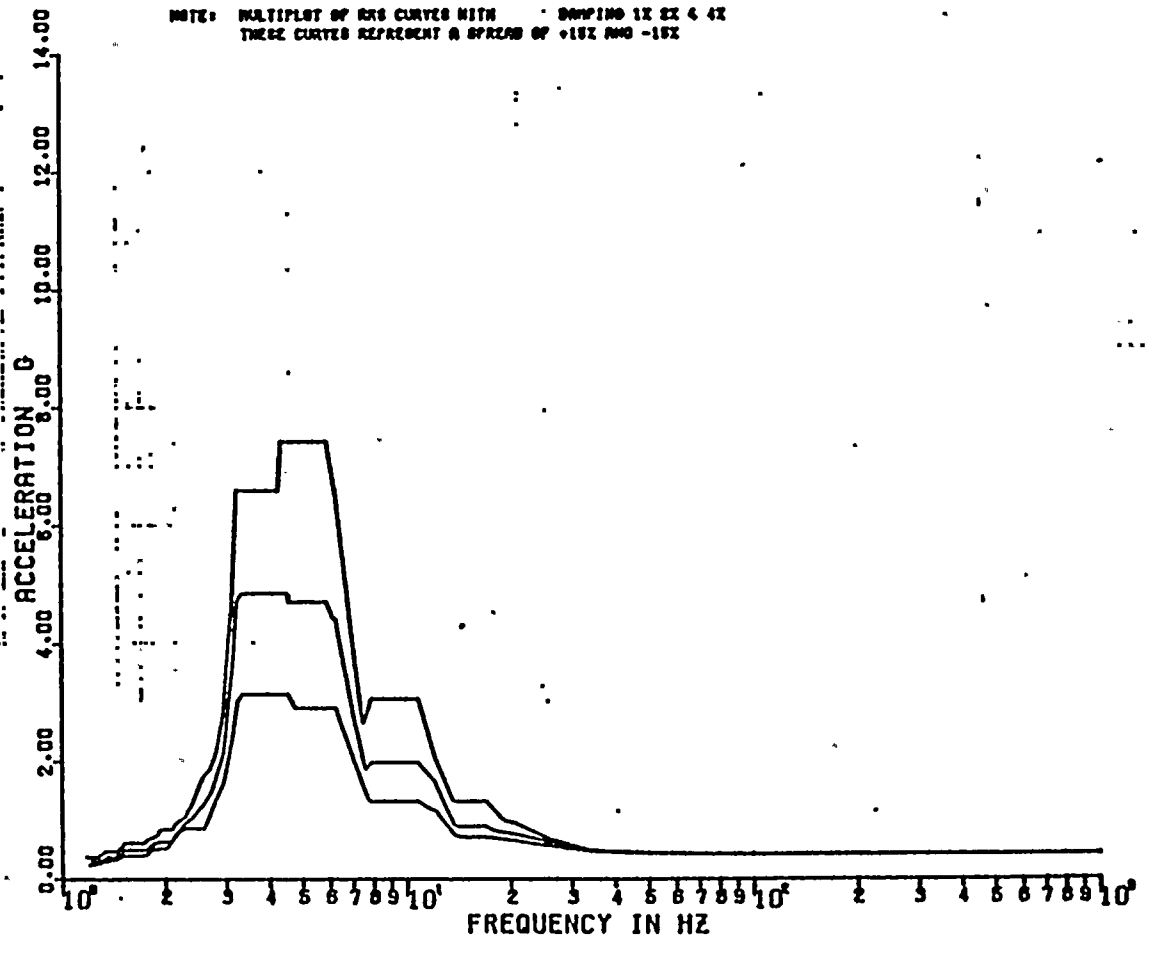
MS1765

MICHAEL K OO

DISK CURVE SET NO.7 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 76

0000000038

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

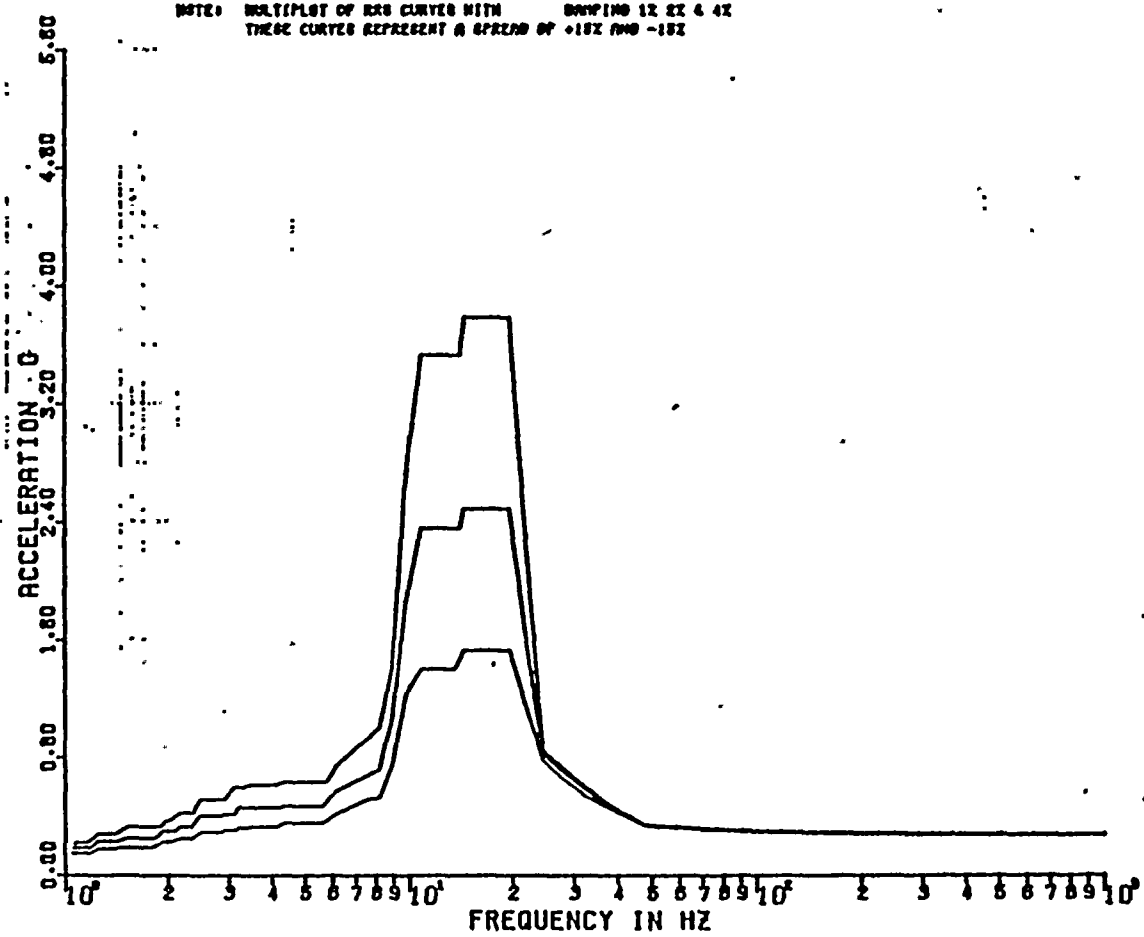
RRS OF ACC. SHIELD WALL (ELEV 280.79 FT)

MS1765

MICHAEL K DO

DISK CURVE SET NO.7 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 76

PSPECTRA VER 01 LEV 08 ...OMIC (66E) 11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. SHIELD WALL (ELEV 290.70 FT)

MS1765

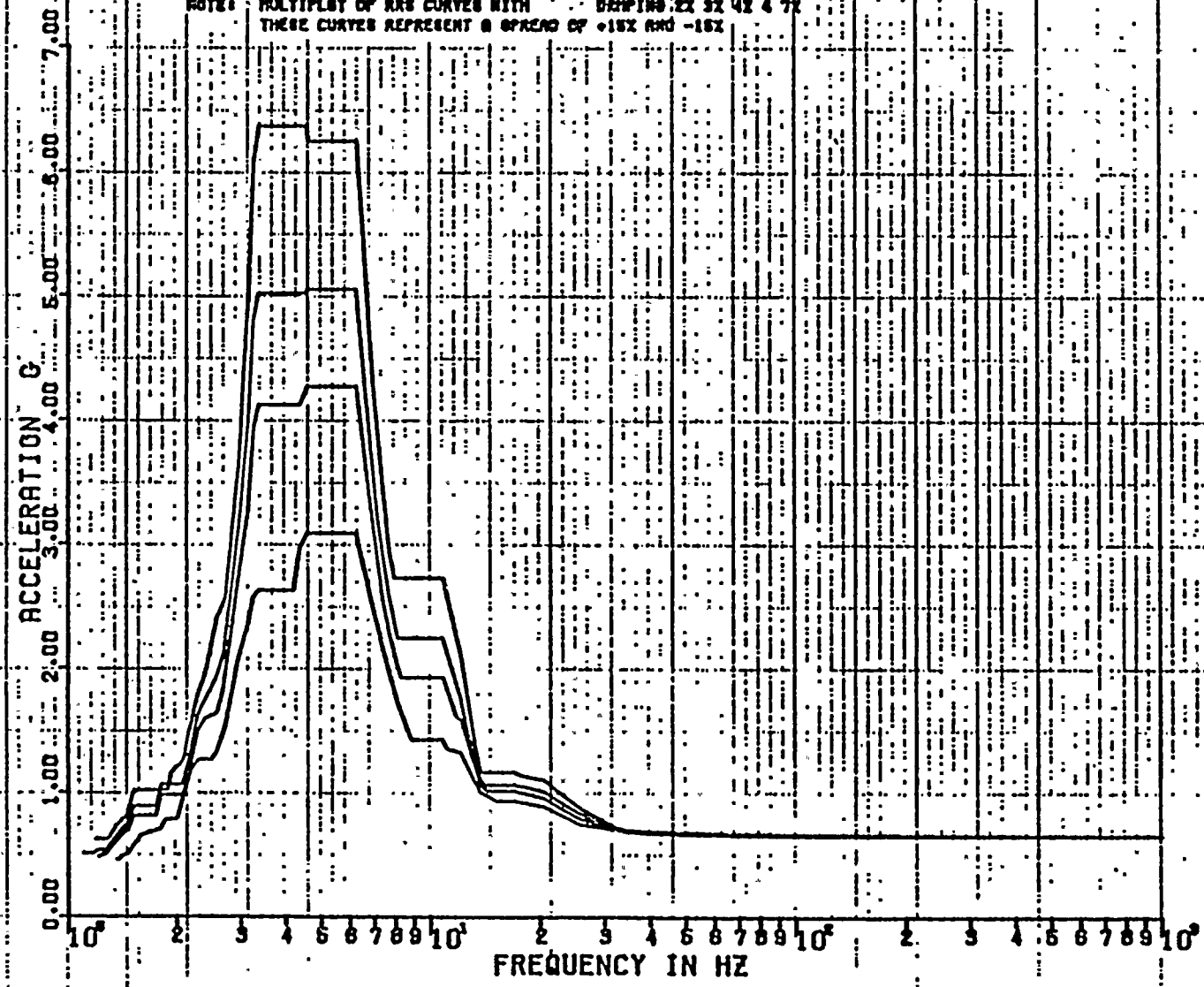
MICHAEL K DO

DISK CURVE SET NO.7

HOR DIRECTION

DAMPING VALUES: 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF. 76

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982

MS1765

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

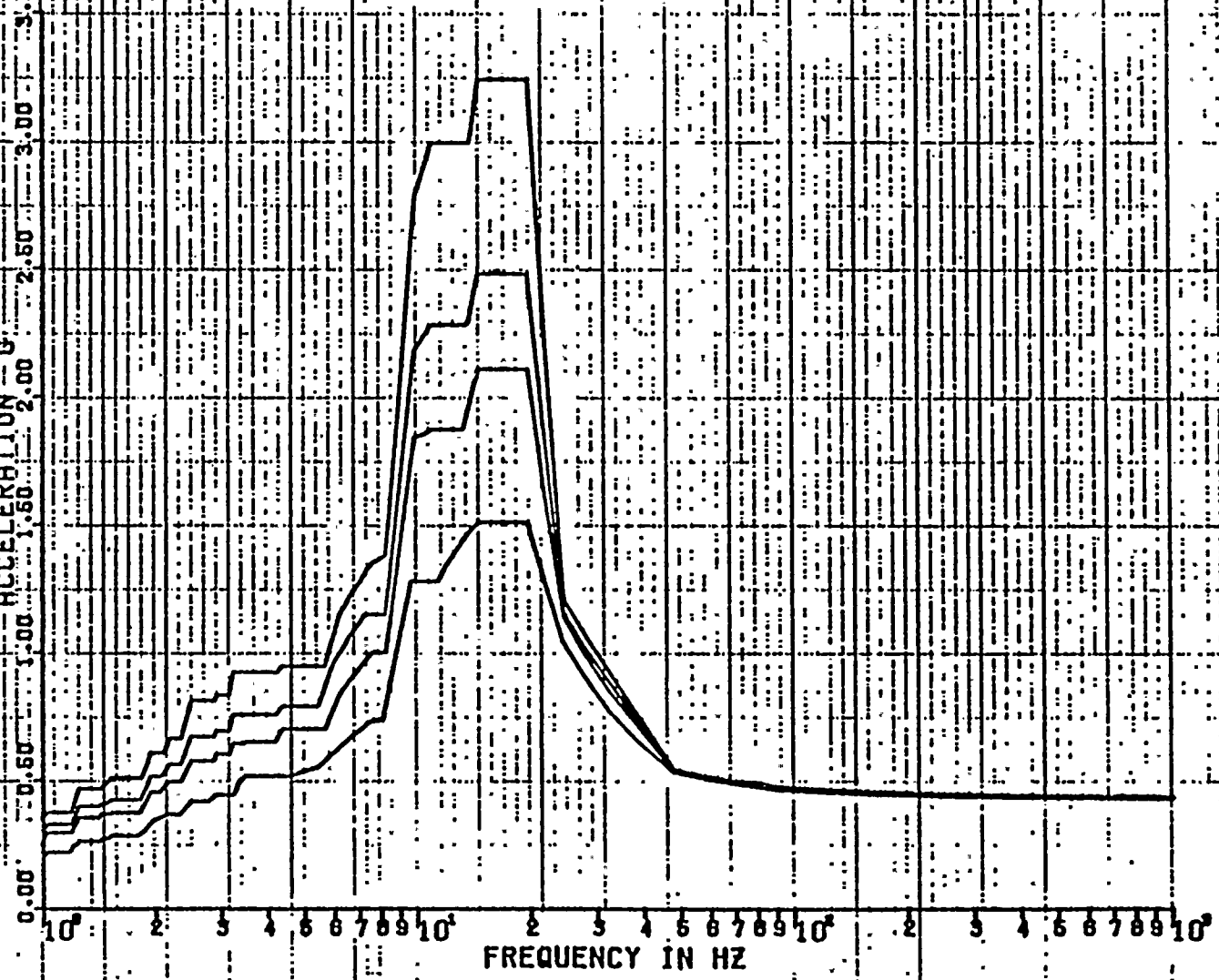
RRS OF ACC. SHIELD WALL (ELEV 280.78 FT)

MICHAEL K DO

DISK CURVE SET NO.7 VER DIRECTION

DAMPING VALUES 0.020 0.030 0.040 0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF. 76

0000000039

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

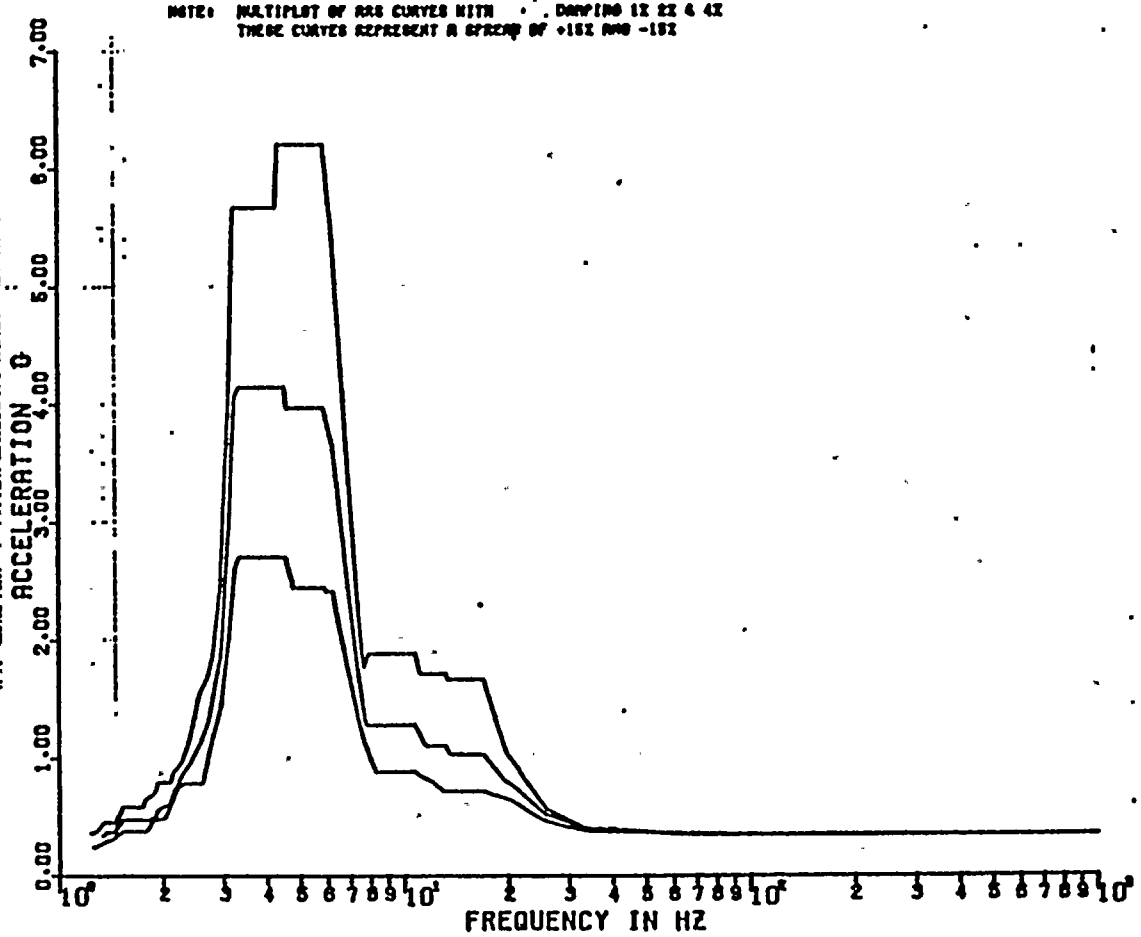
RMS OF ACC. SHIELD WALL (ELEV. 278.65 FT)

MS1765

MICHAEL K OO

DISK CURVE SET NO.11 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RMS CURVES WITH . DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 77

0000000040

PSPECTRA VER 01 LEV 08 SEISMIC (OBE)

9 DEC 1982

MS1765

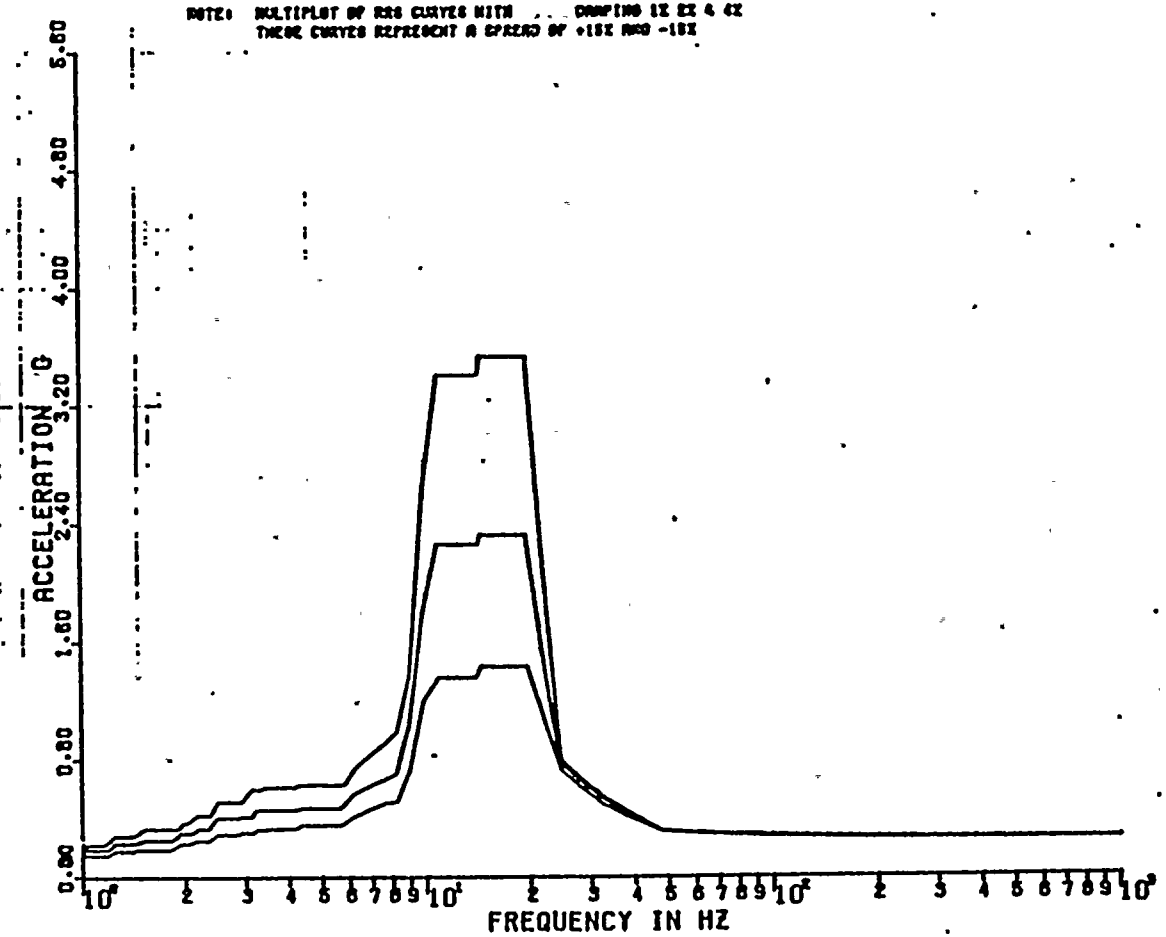
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177
RRS OF RCC. SHIELD WALL (ELEV. 278.65 FT)

MICHAEL K OO

DISK CURVE SET NO.11 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH ... DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 77

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982 0000000104

MS1765

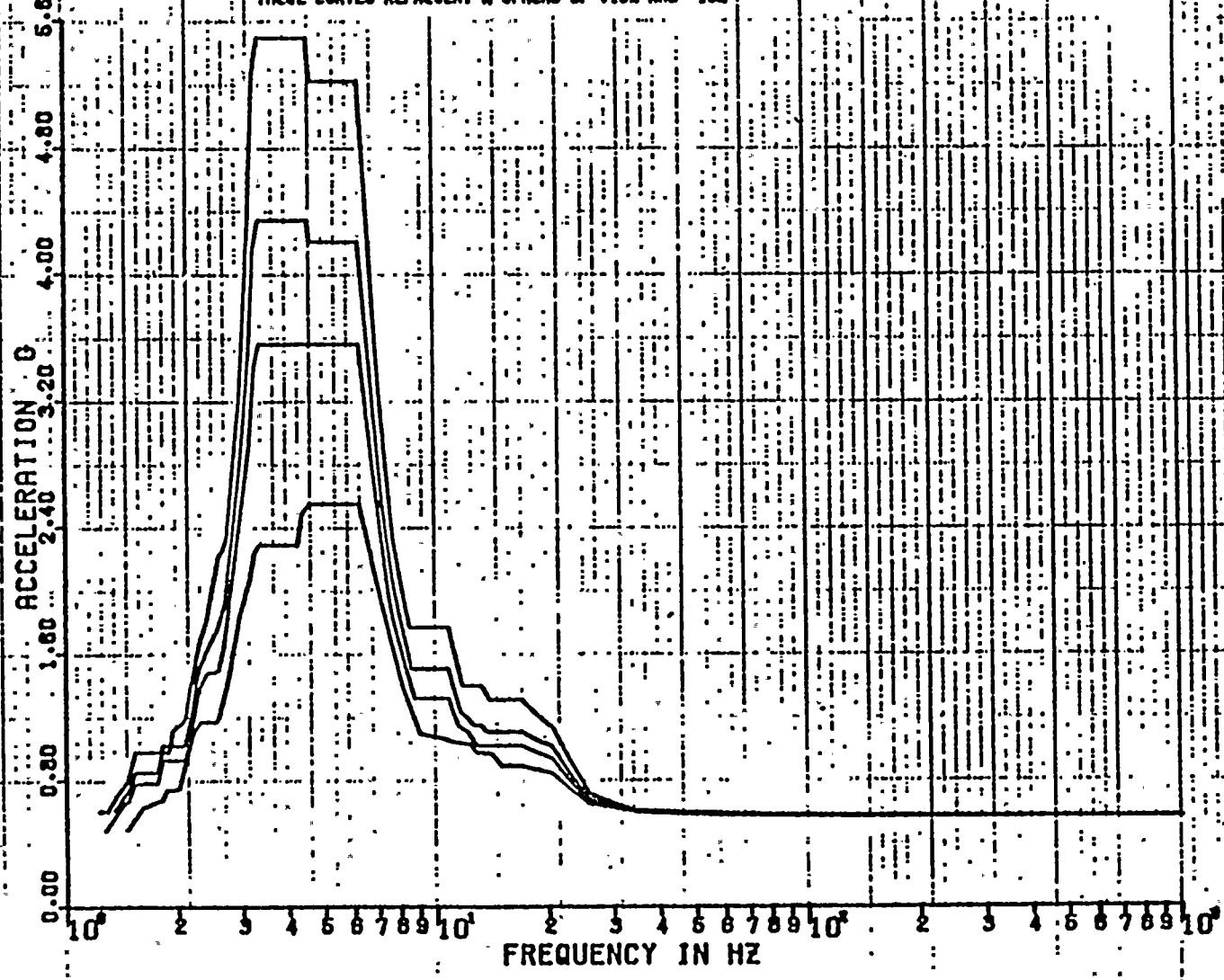
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RMS OF ACC. SHIELD WALL (ELEV. 278.85 FT)

MICHAEL K DO

DISK CURVE SET NO.11 HOR DIRECTION DAMPING VALUES = 0.020 0.030 0.040 0.070

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



PAGE 77

PSPECTRA VER 01 LEV 08 SEISMIC (SSE)

11 DEC 1982 0000105

MS1765

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. SHIELD WALL (ELEV. 278.65 FT)

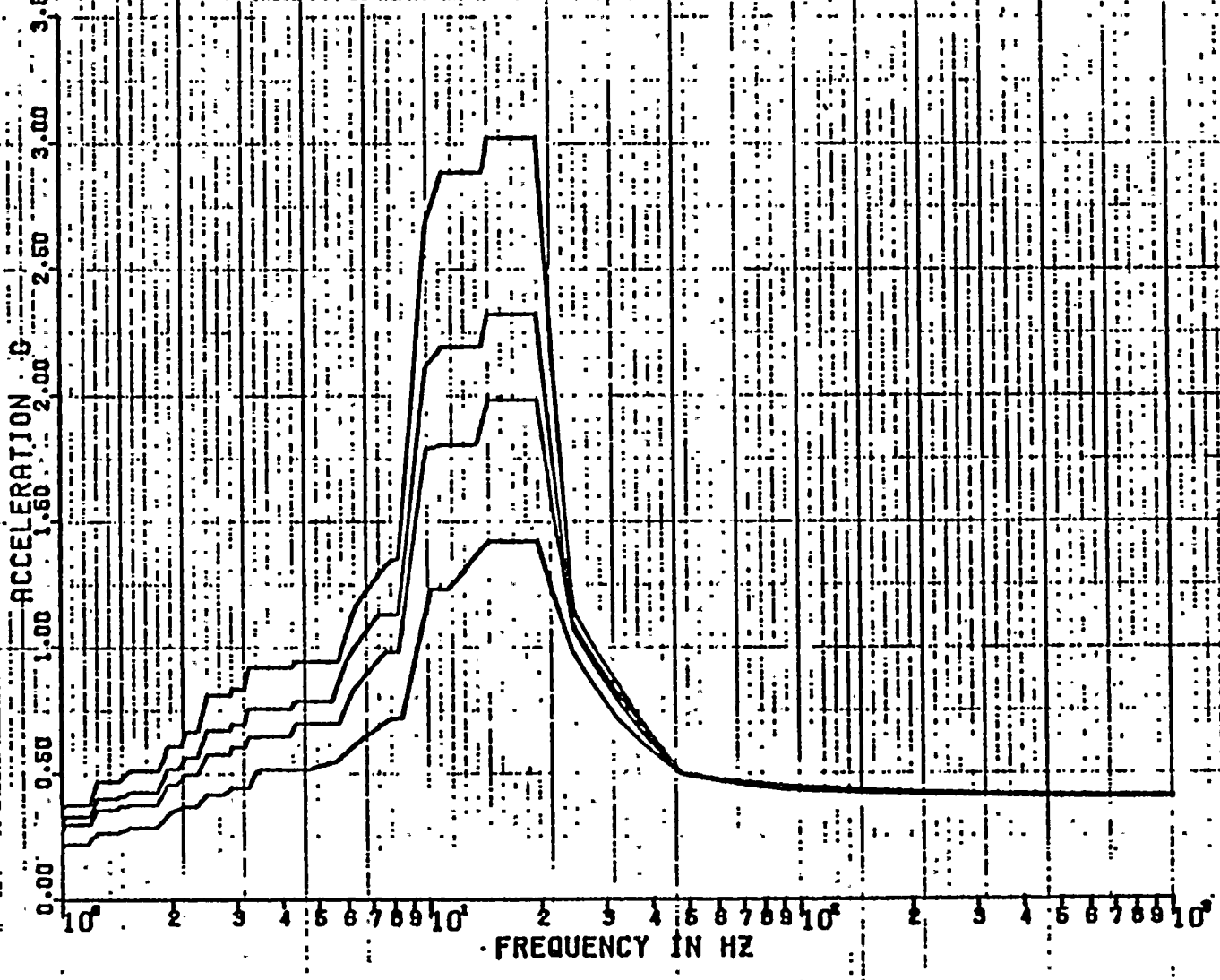
MICHAEL K DO

DISK CURVE SET NO.11

VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 77

0000000041

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

MIRDARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

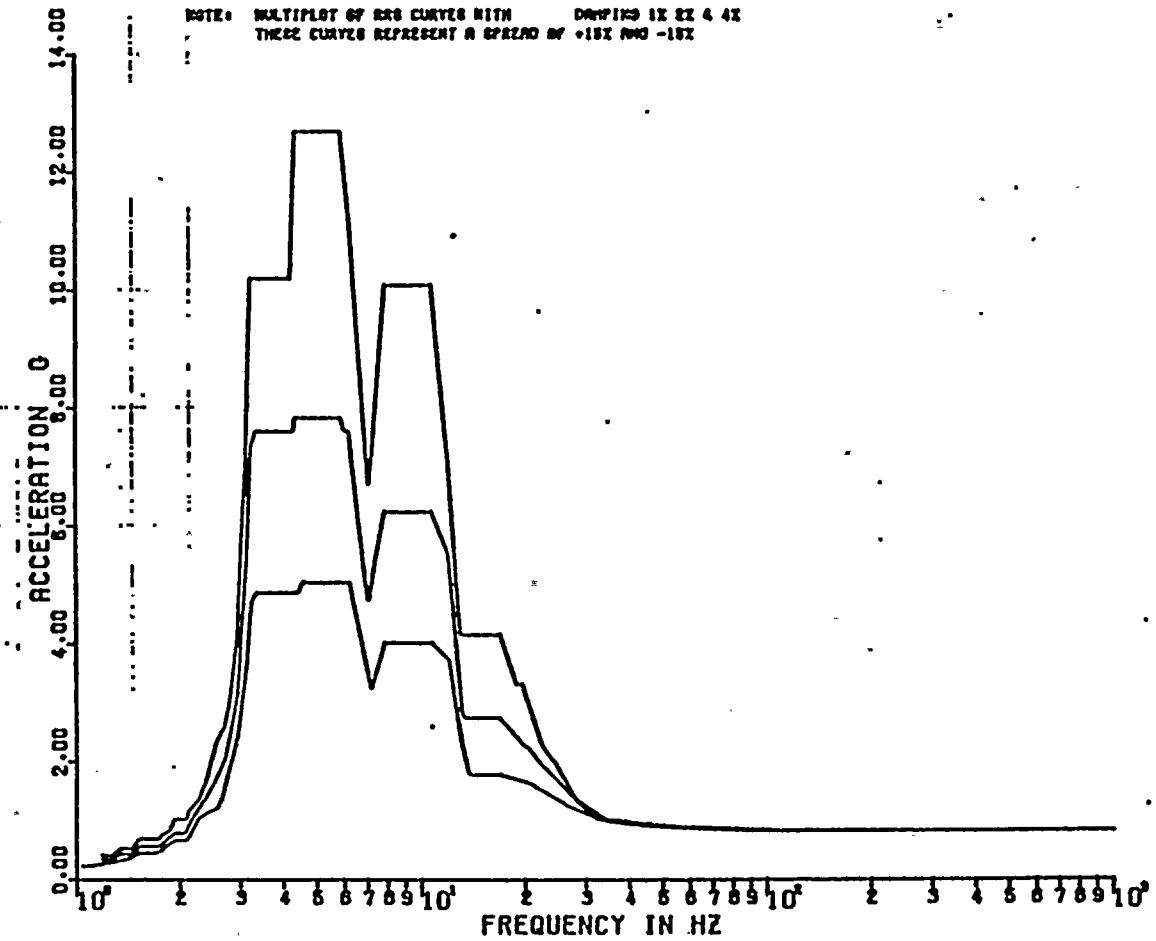
RRS OF ACC. RPV SHELL (ELEV 332.70 FT)

MS1765

MICHAEL K OO

DISK CURVE SET NO.4 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 78

0000020042

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. RPV SHELL (ELEV 332.70 FT)

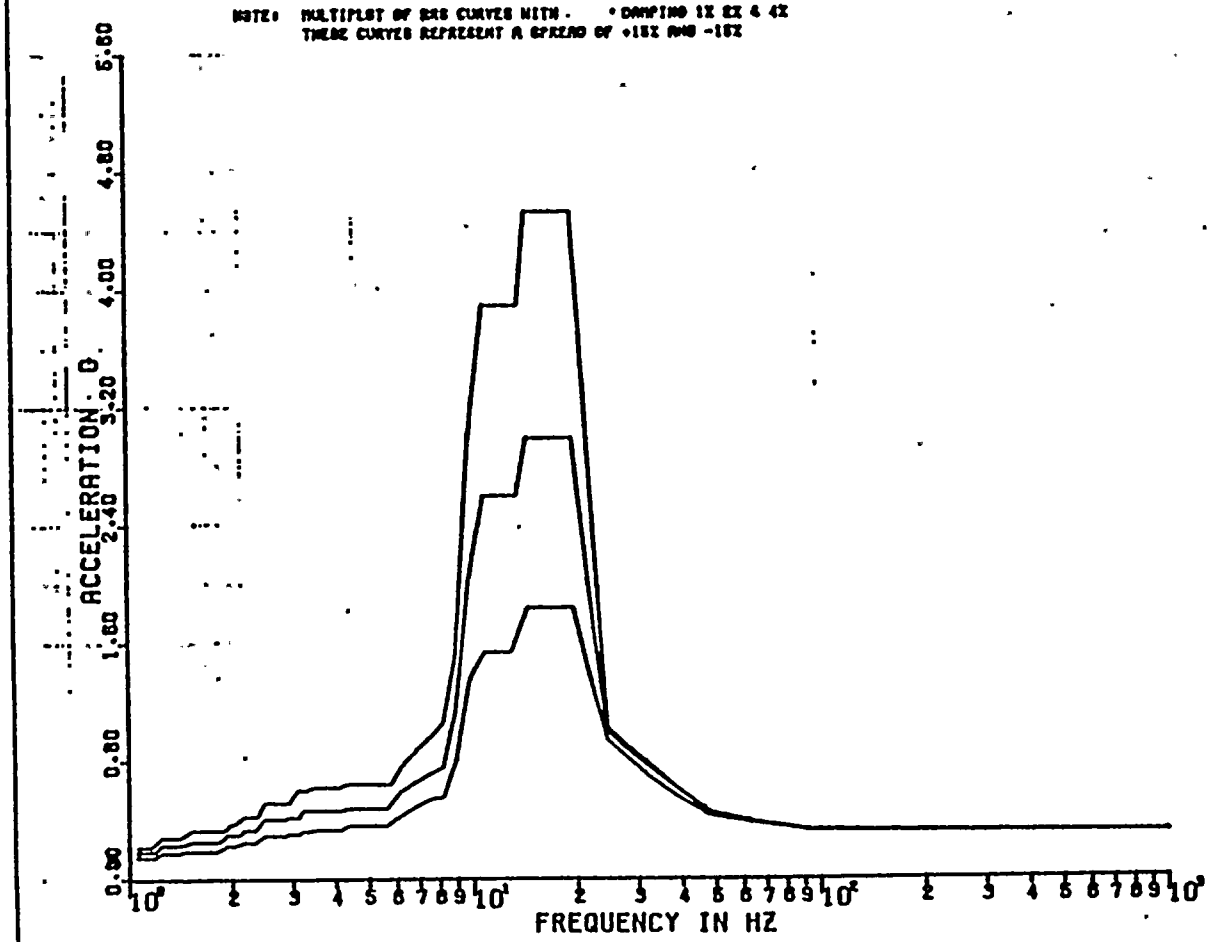
MS1765

MICHAEL K 80

DISK CURVE SET NO.4 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH . * DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 78

PSPECTRA VER 01 LEV 08 (SSE) 11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. RPV SHELL (ELEV 332.70 FT)

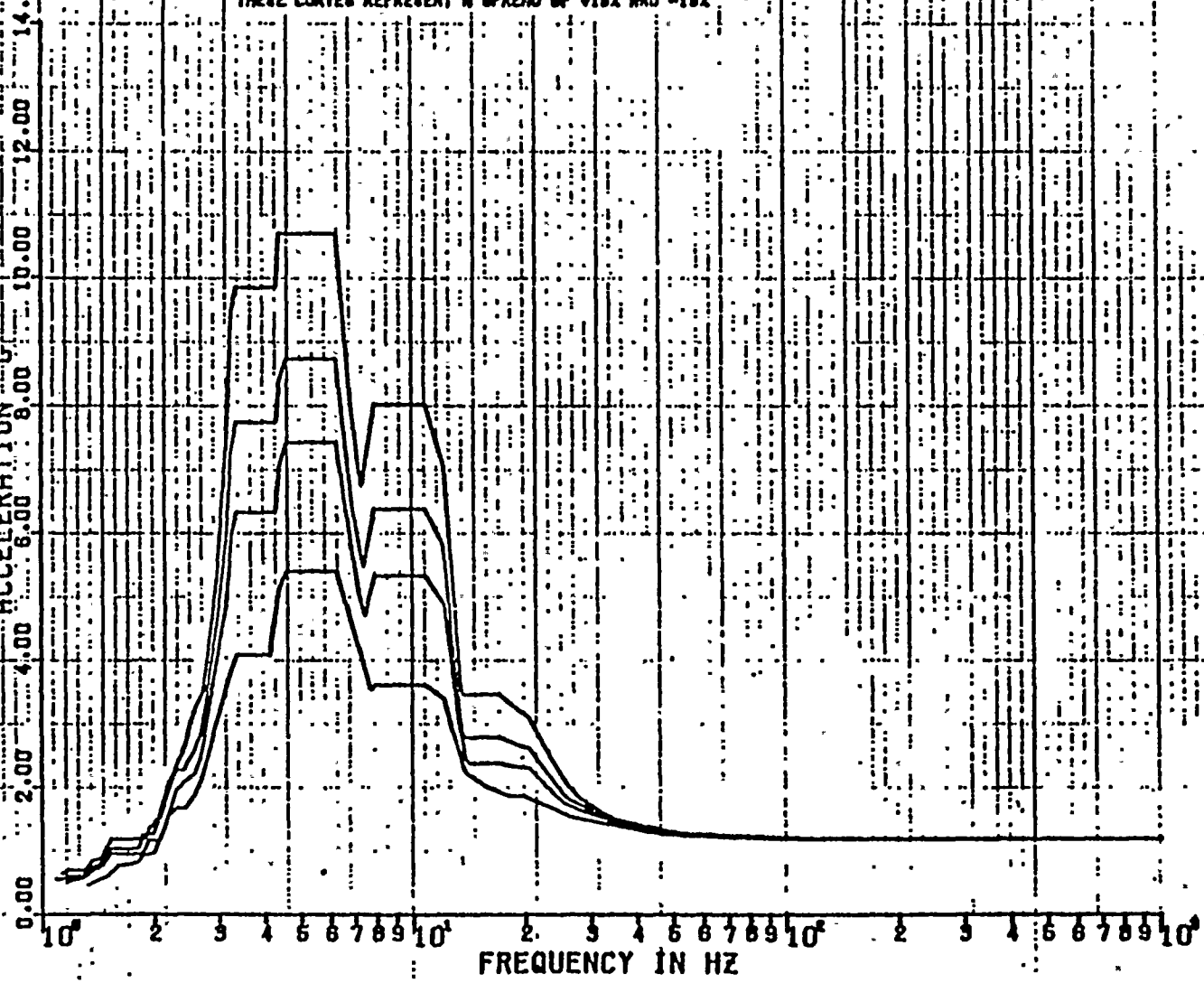
MS1765

MICHAEL K DO

DISK CURVE SET NO.4 HOR DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 79

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. RPV SHELL (ELEV 332.70 FT)

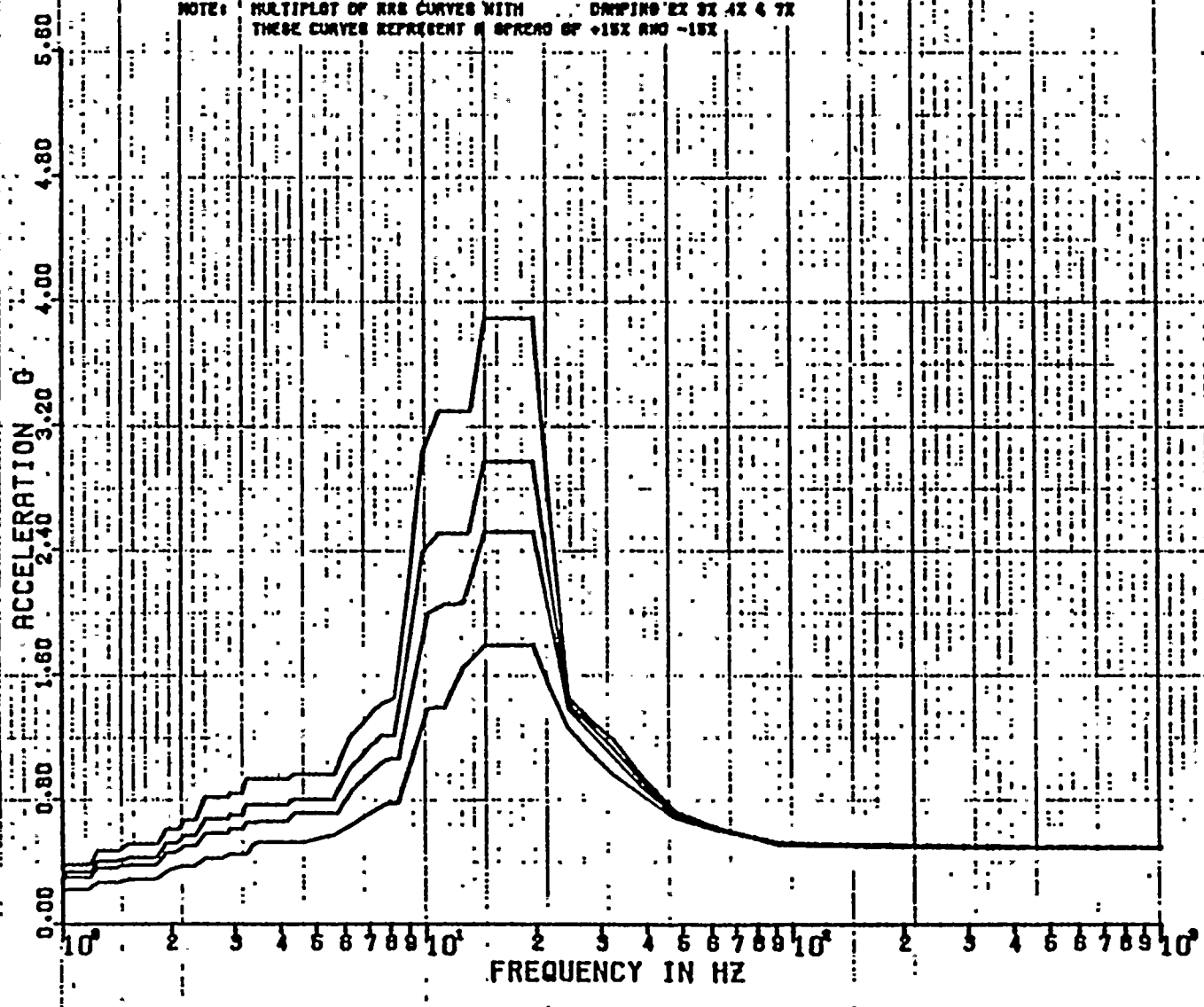
MS1765

MICHAEL K OO

DISK CURVE SET NO.4 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING EQ 2% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 79

0000000043

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177

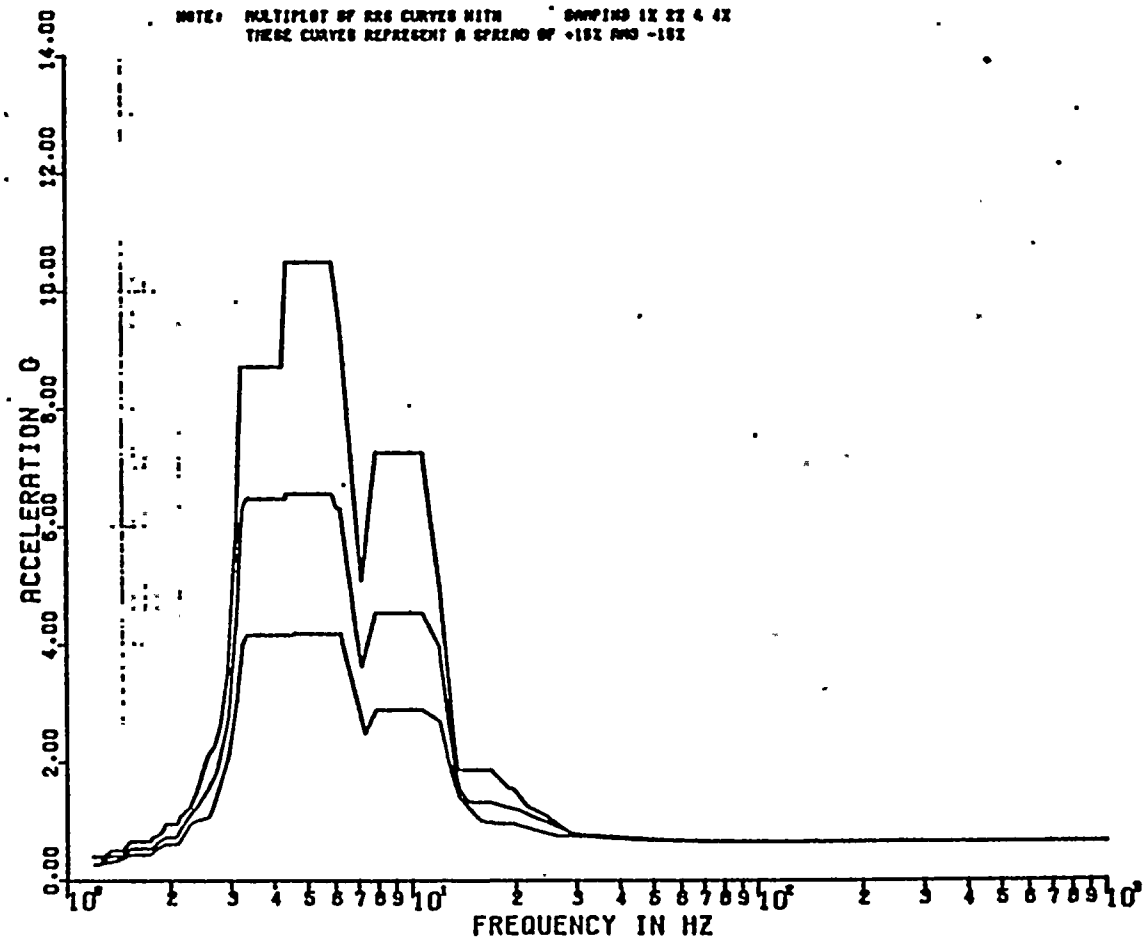
RRS OF ACC. RPV SHELL (ELEV 315.08 FT)

MS1765

MICHAEL K OO

DISK CURVE SET NO.2 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 79

0000020044

FSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

MS1765

NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177

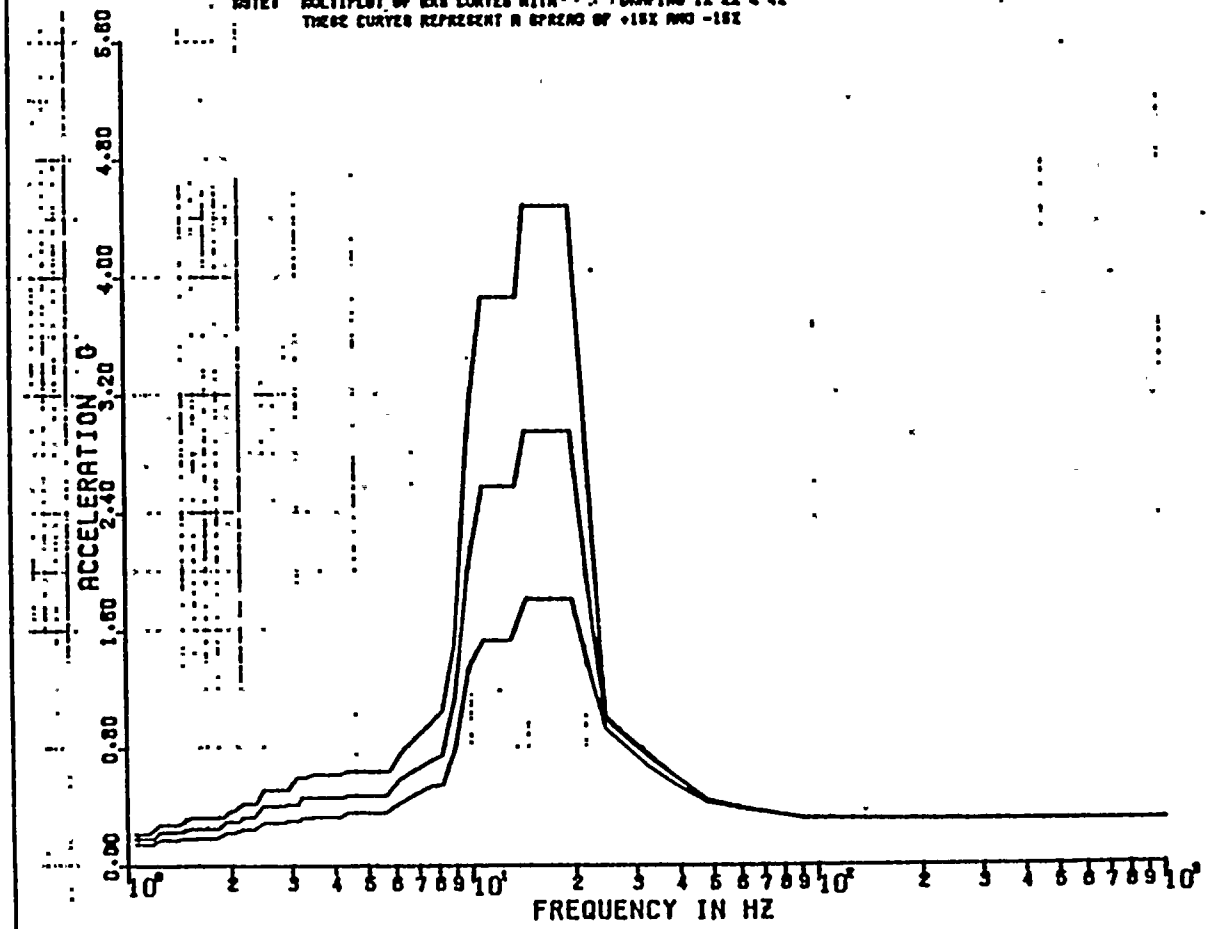
RRS OF ACC. RPV SHELL (ELEV 315.08 FT)

MICHAEL K DO

DISK CURVE SET NO.2 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 79

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177

RRS OF ACC. RPV SHELL (ELEV 315.08 FT)

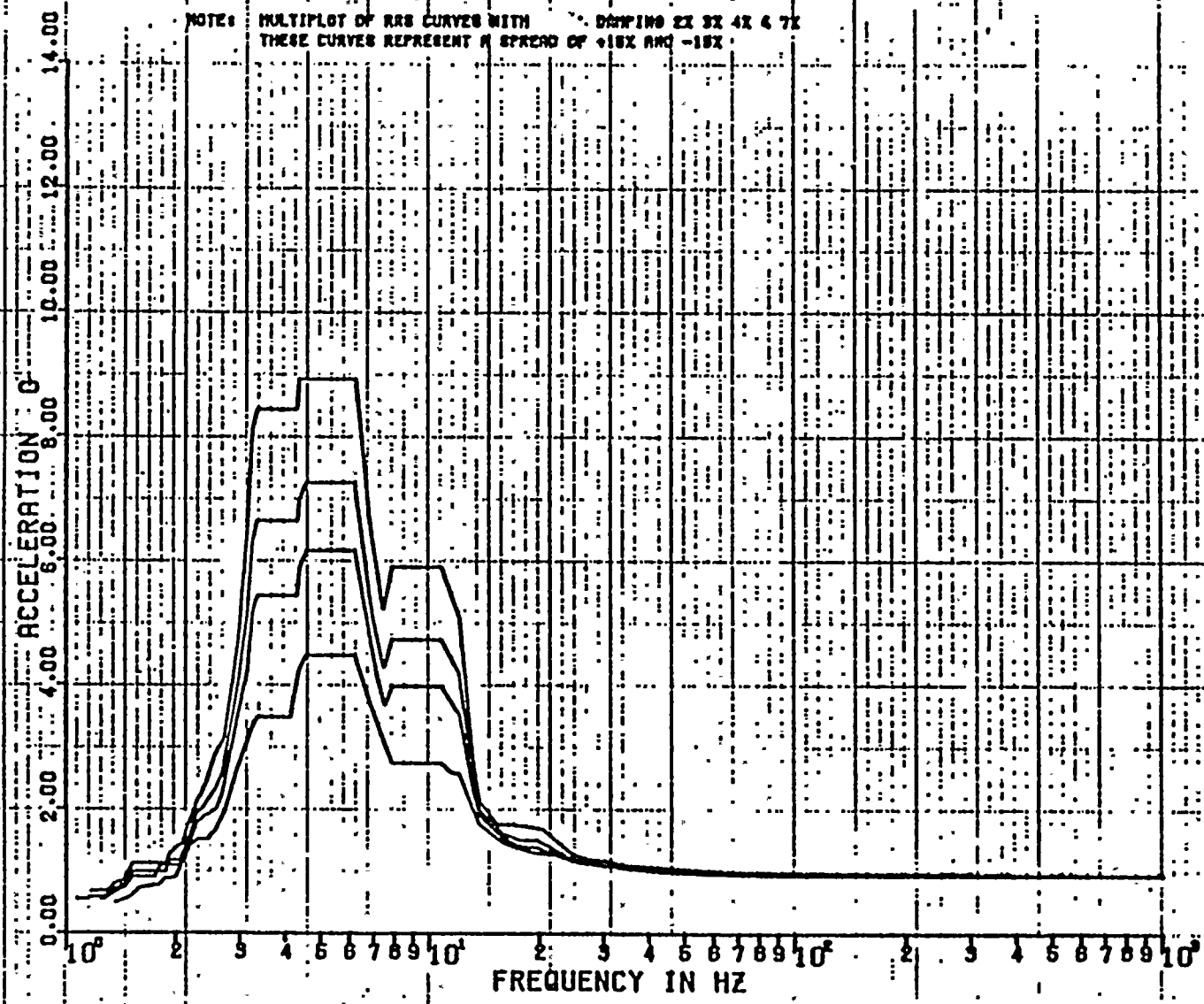
MS1765

MICHAEL K DO...

DISK CURVE SET NO.2 HOR DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



PSPECTRA VER 01 LEV 08 MIC (66E) 11 DEC 1982

MS1765

00000109

NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177

RRS OF ACC. - RPV SHELL (ELEV 315.08 FT)

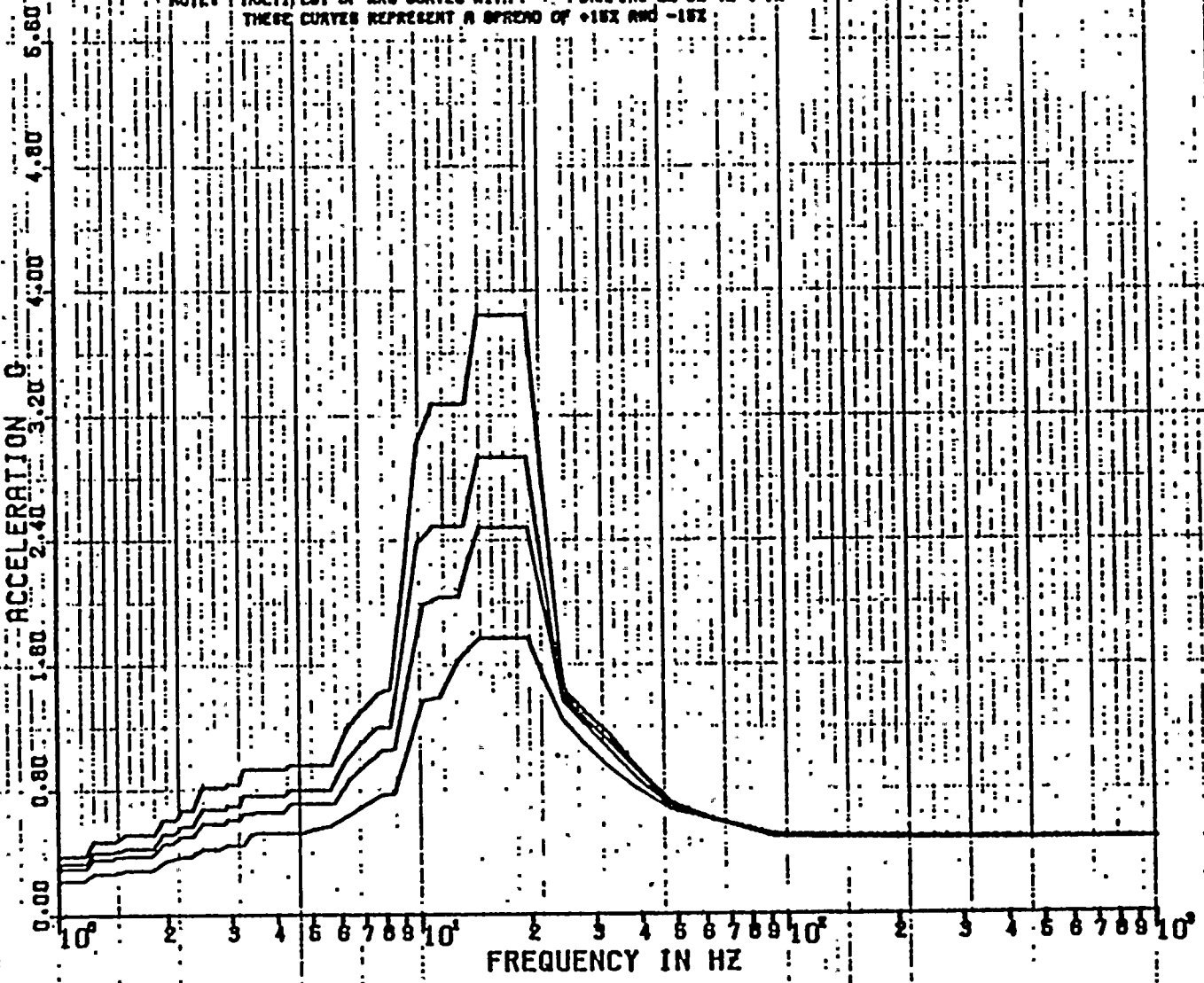
MICHAEL K DO

DISK CURVE SET NO.2

VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 79

0000000045

PSFECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. RPV SHELL (ELEV 297.17 FT)

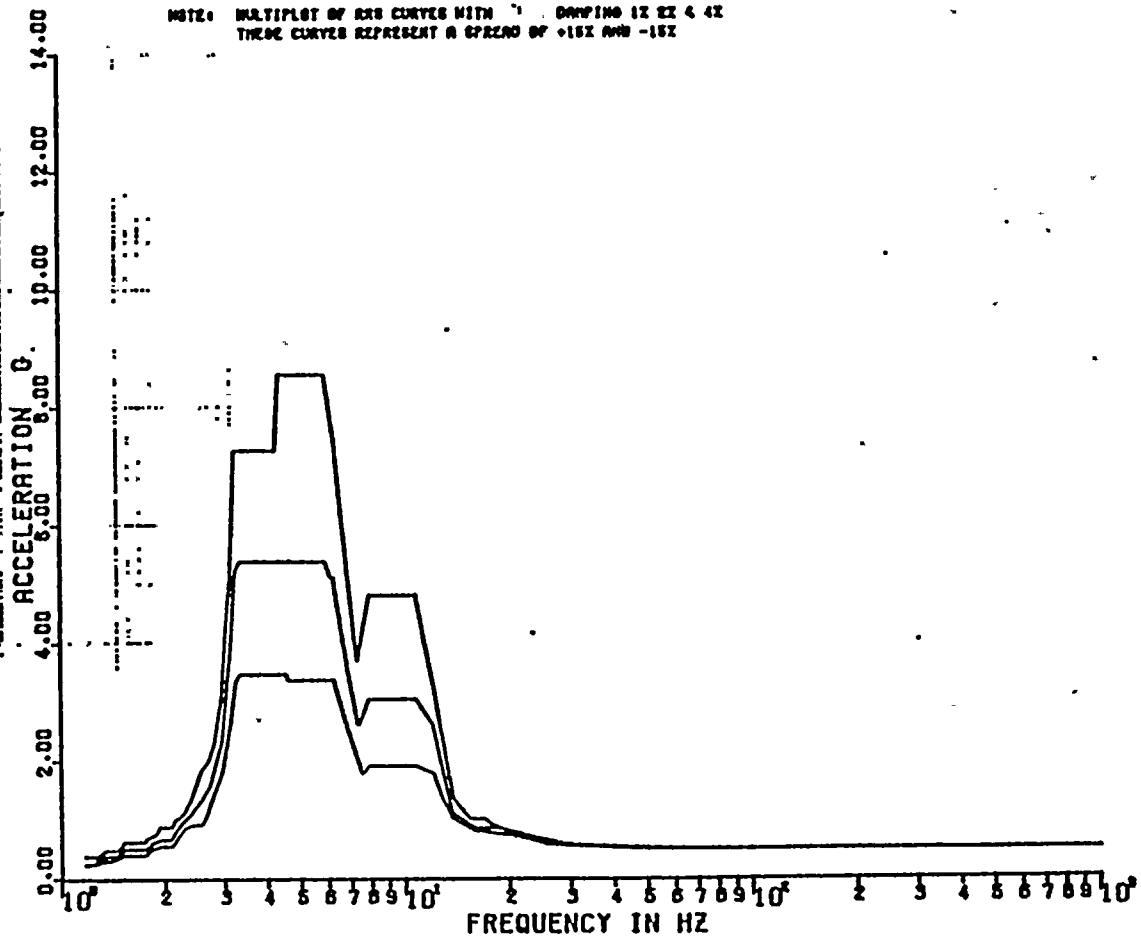
MS1765

MICHAEL K OO

DISK CURVE SET NO.6 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH 1 , DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 80

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. RPV SHELL (ELEV 297.17 FT)

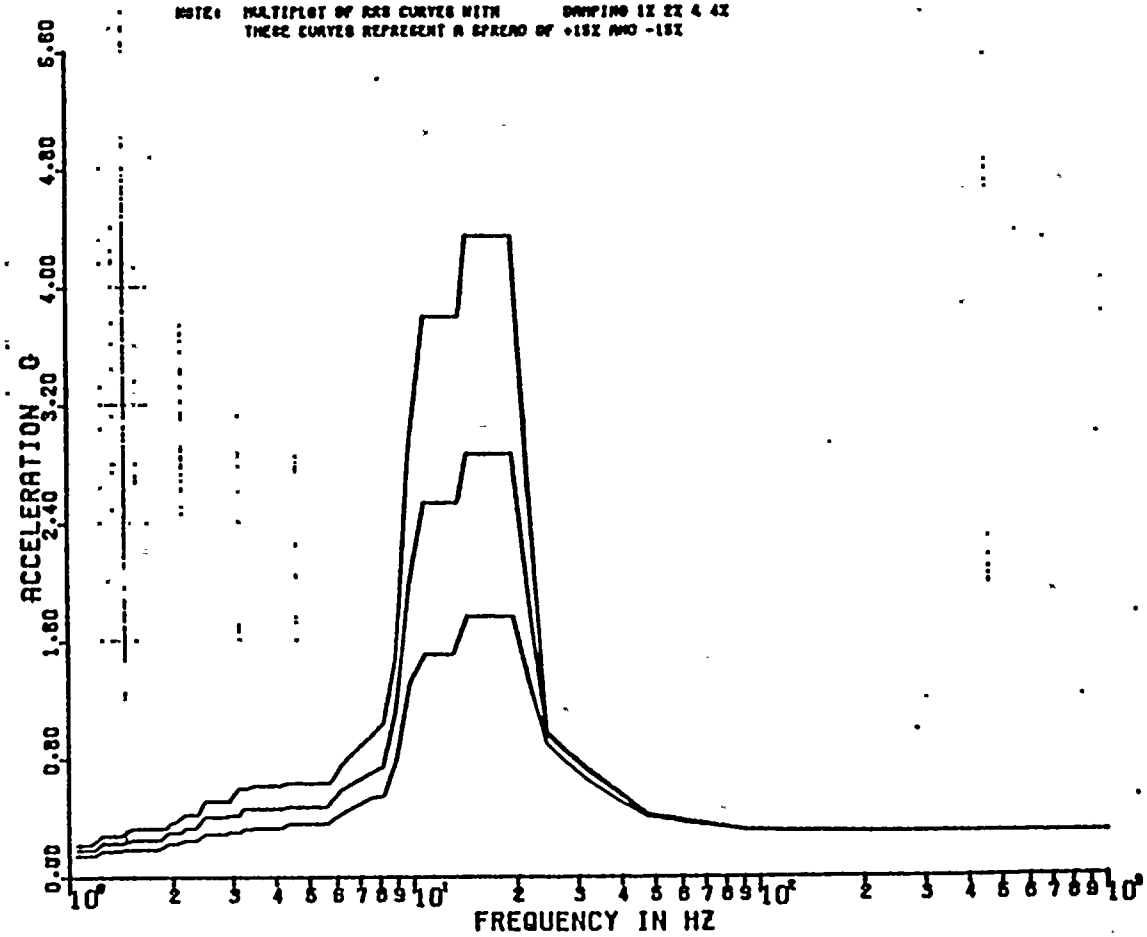
MS1765

MICHAEL K OO

DISK CURVE SET NO.6 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 80

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982 0000000110

MS1765

MICHAEL K OO.

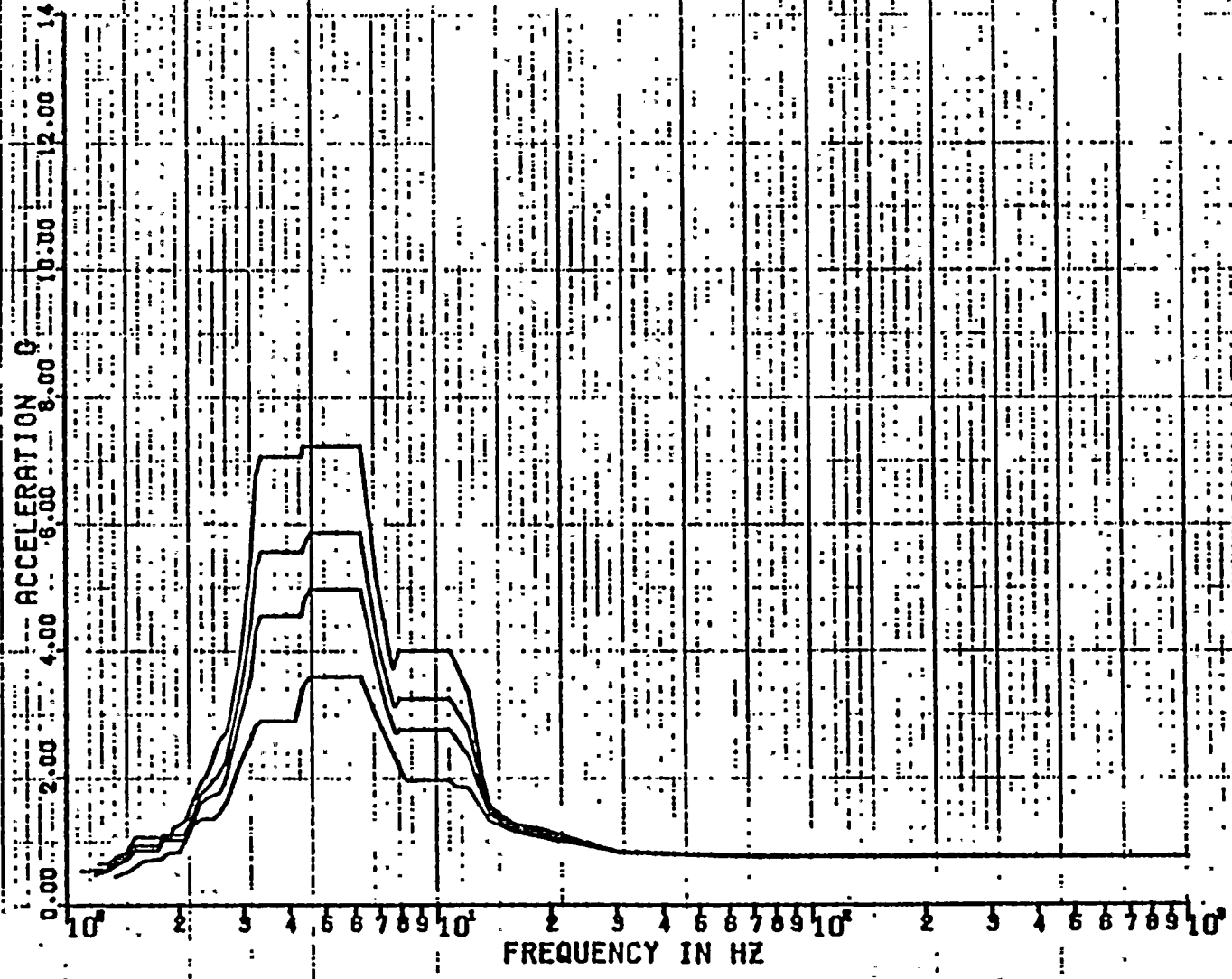
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RMS OF ACC. RPV SHELL (ELEV 297.17 FT)

DISK CURVE SET NO.6 HOR DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



RCK 80

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. RPV SHELL (ELEV 297.17 FT)

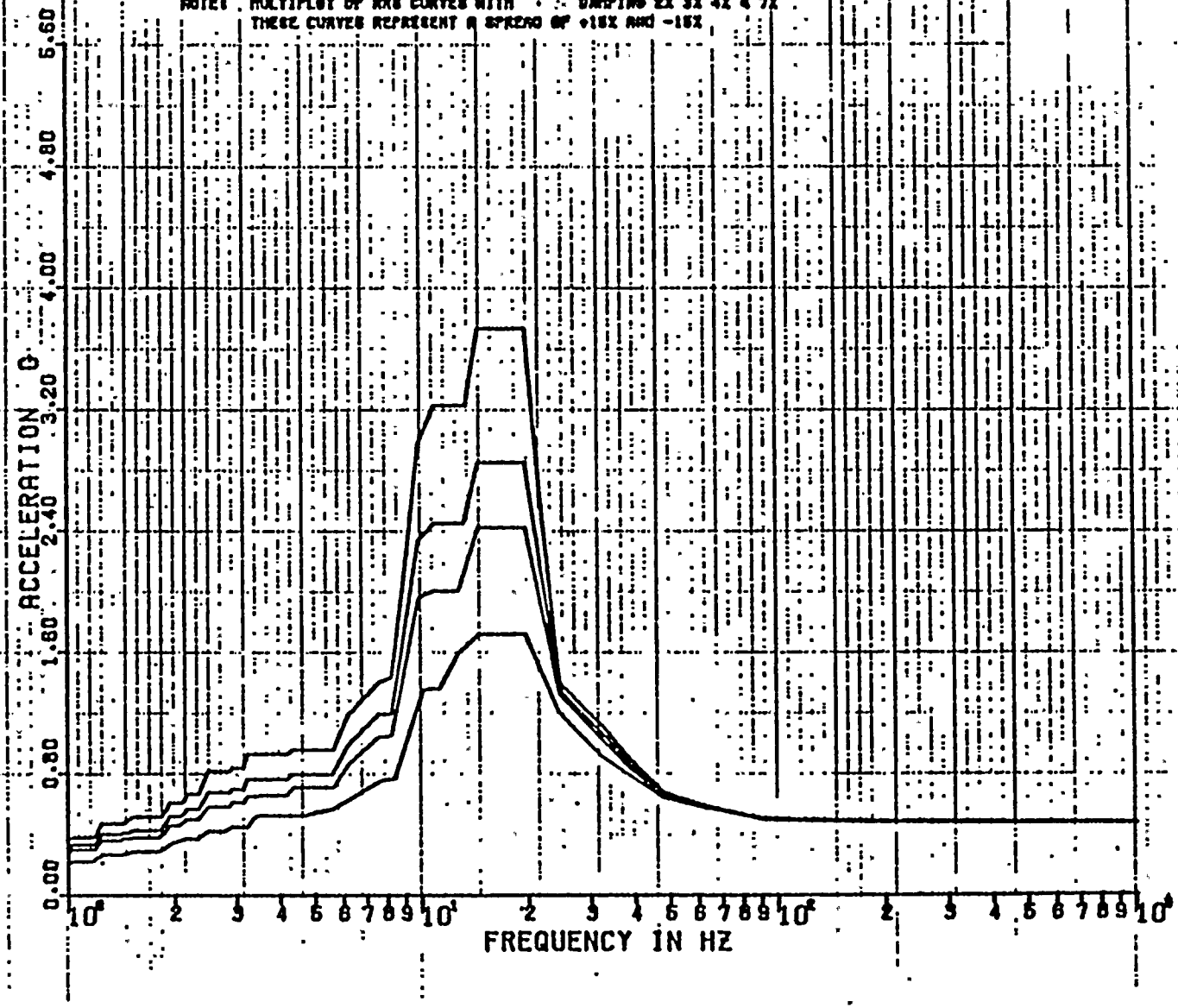
MS1765

MICHAEL K OO

DISK CURVE SET NO.6 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



00000111

RST-80

0000000047

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

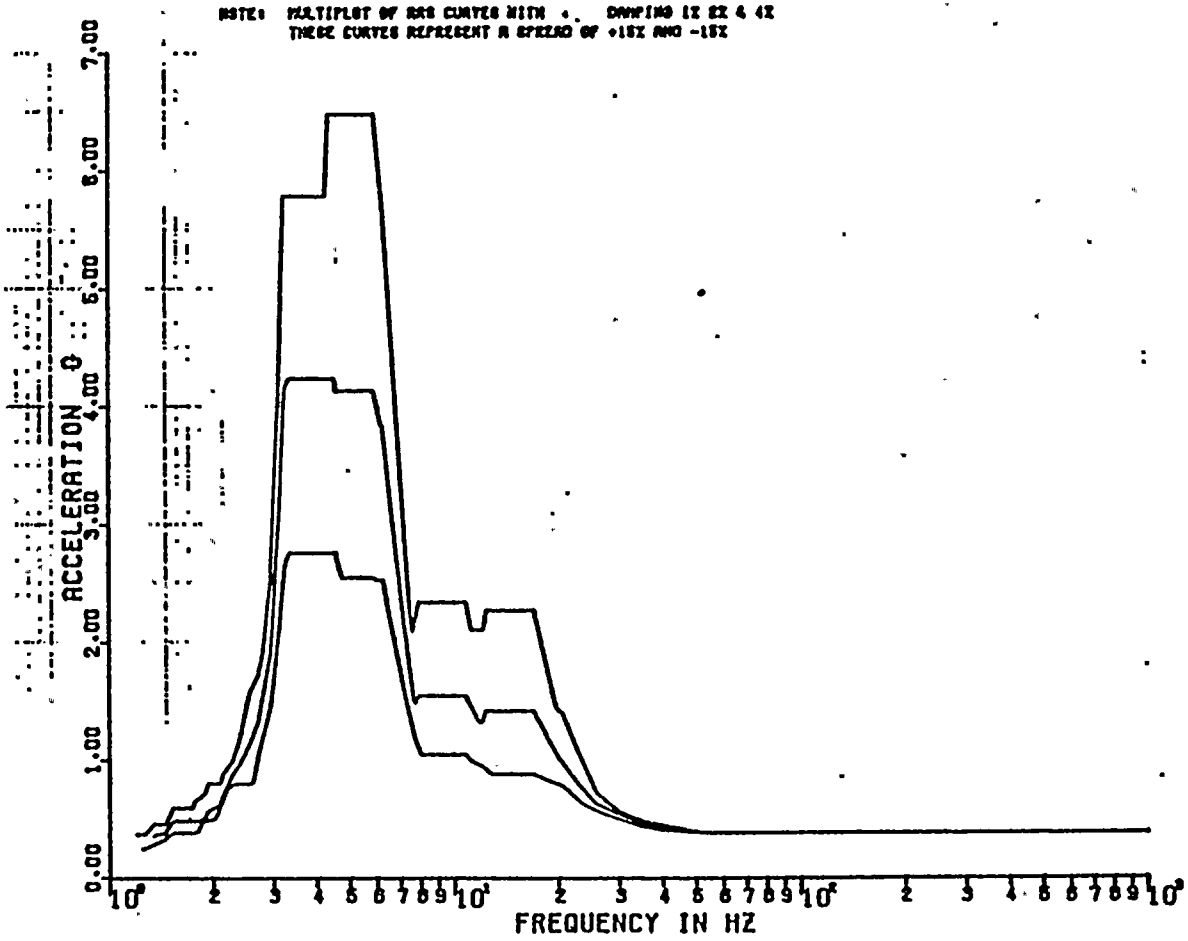
RRS OF ACC. RPV SHELL (ELEV. 278.00 FT)

MS1765

MICHAEL K OO

DISK CURVE SET NO.10 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH . DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 81

0000000048

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

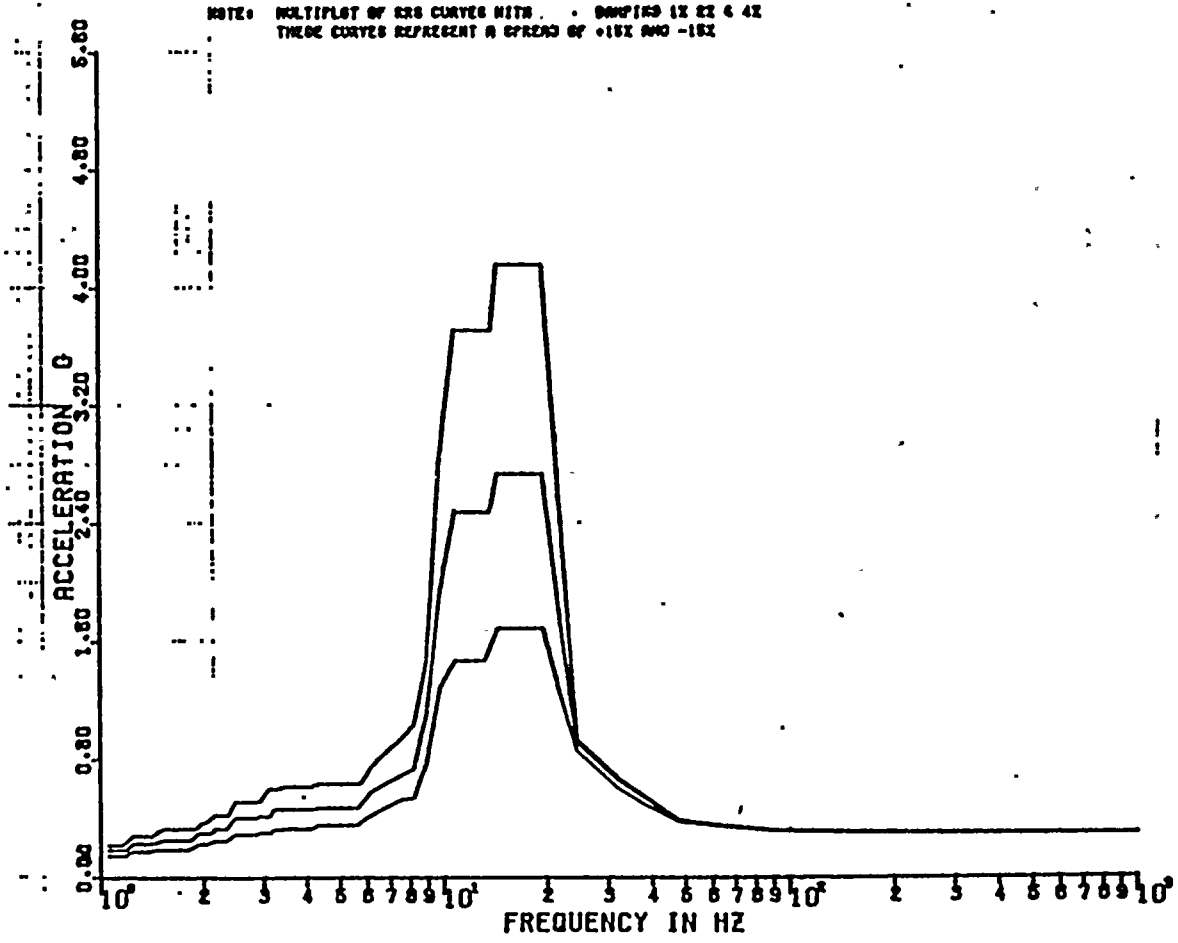
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177
RRS OF ACC. RPV SHELL (ELEV. 278.00 FT)

MS1765

MICHAEL K OO

DISK CURVE SET NO.10 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH . DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 81

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

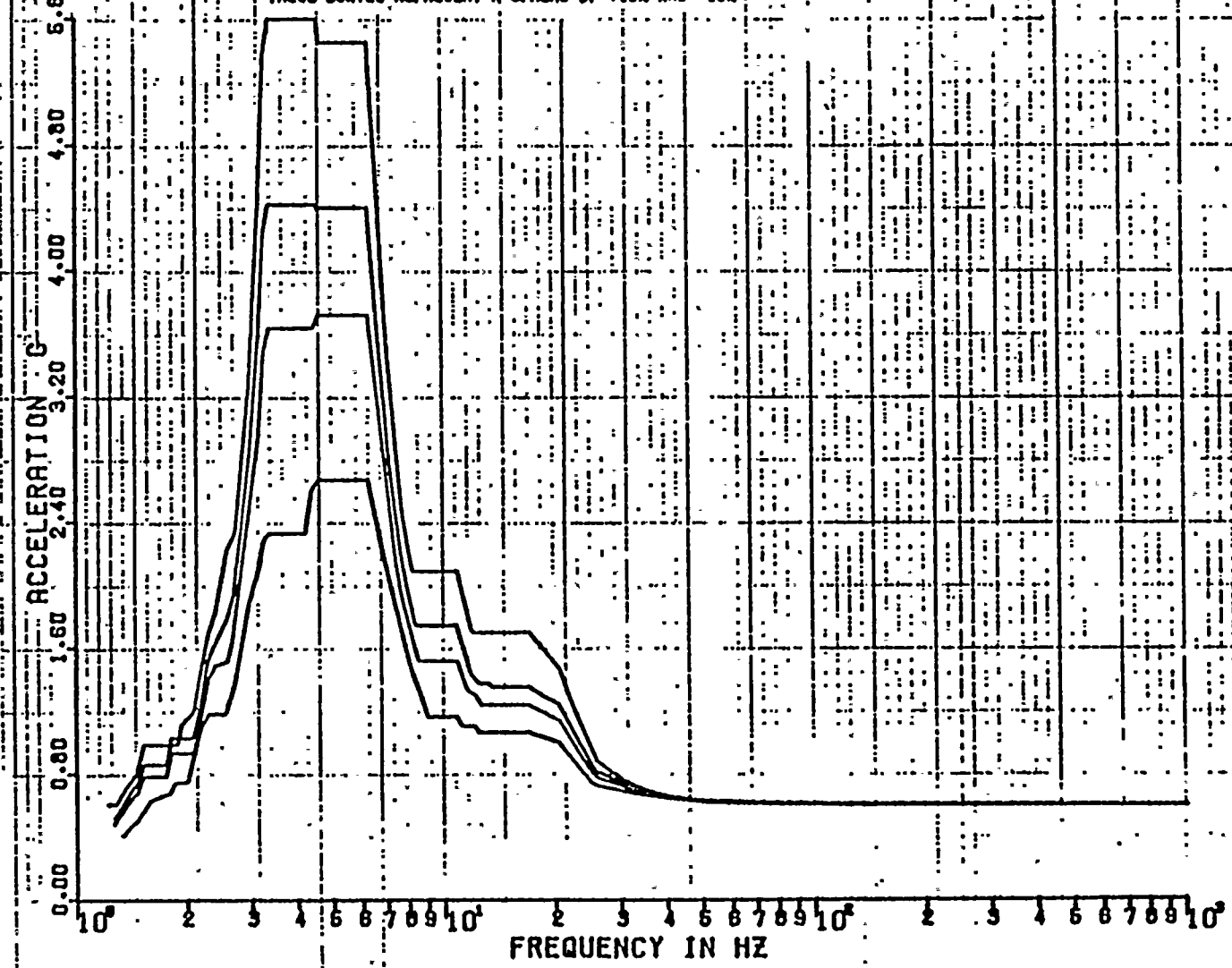
RMS OF ACC. RPV SHELL (ELEV. 278.00 FT)

MS1765

MICHAEL K DO

DISK CURVE SET NO.10 HOR DIRECTION DAMPING VALUES = 0.020 0.030 0.040 0.070

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



Ref 84

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

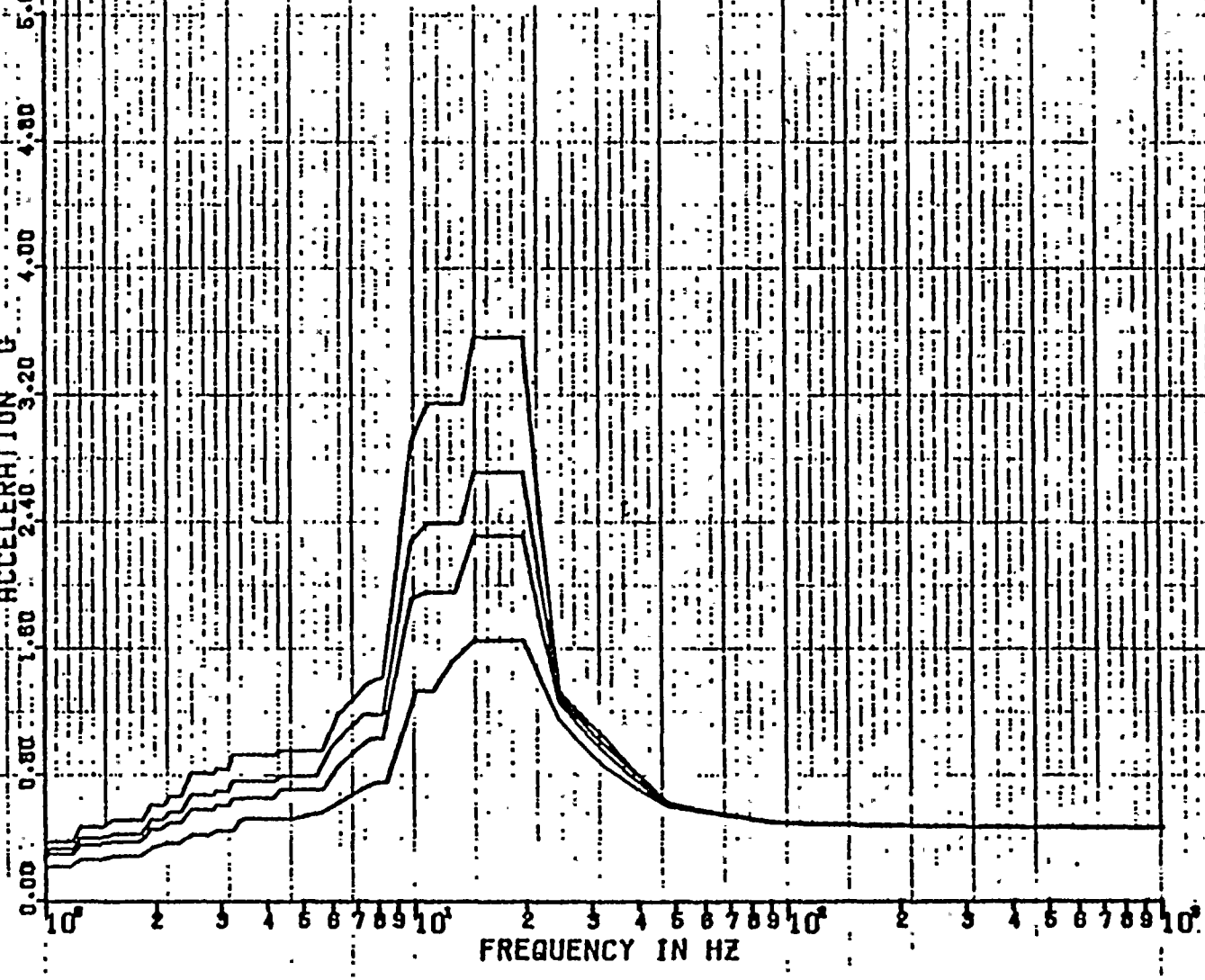
RMS OF ACC. RPV SHELL (ELEV. 278.00 FT)

MS1765

MICHAEL K DO

DISK CURVE SET NO.10 VER DIRECTION DAMPING VALUES = 0.020, 0.030, 0.040, 0.070

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



18-55-81

0000000027

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

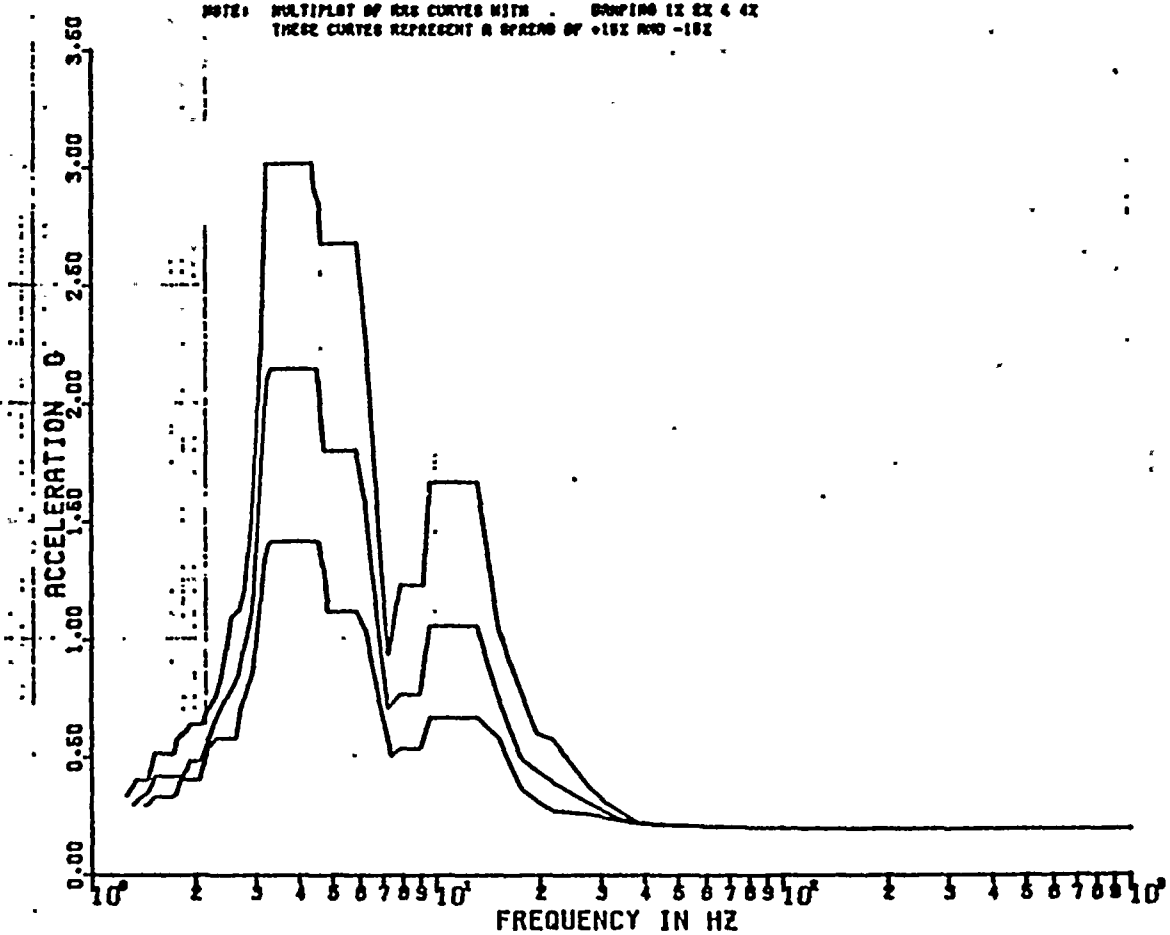
RRS OF ACC. DRYWELL FLOOR (ELEV 238.0 FT)

MS1765

MICHAEL K OO

DISK CURVE SET NO.17 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH . DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 82

0000000028

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

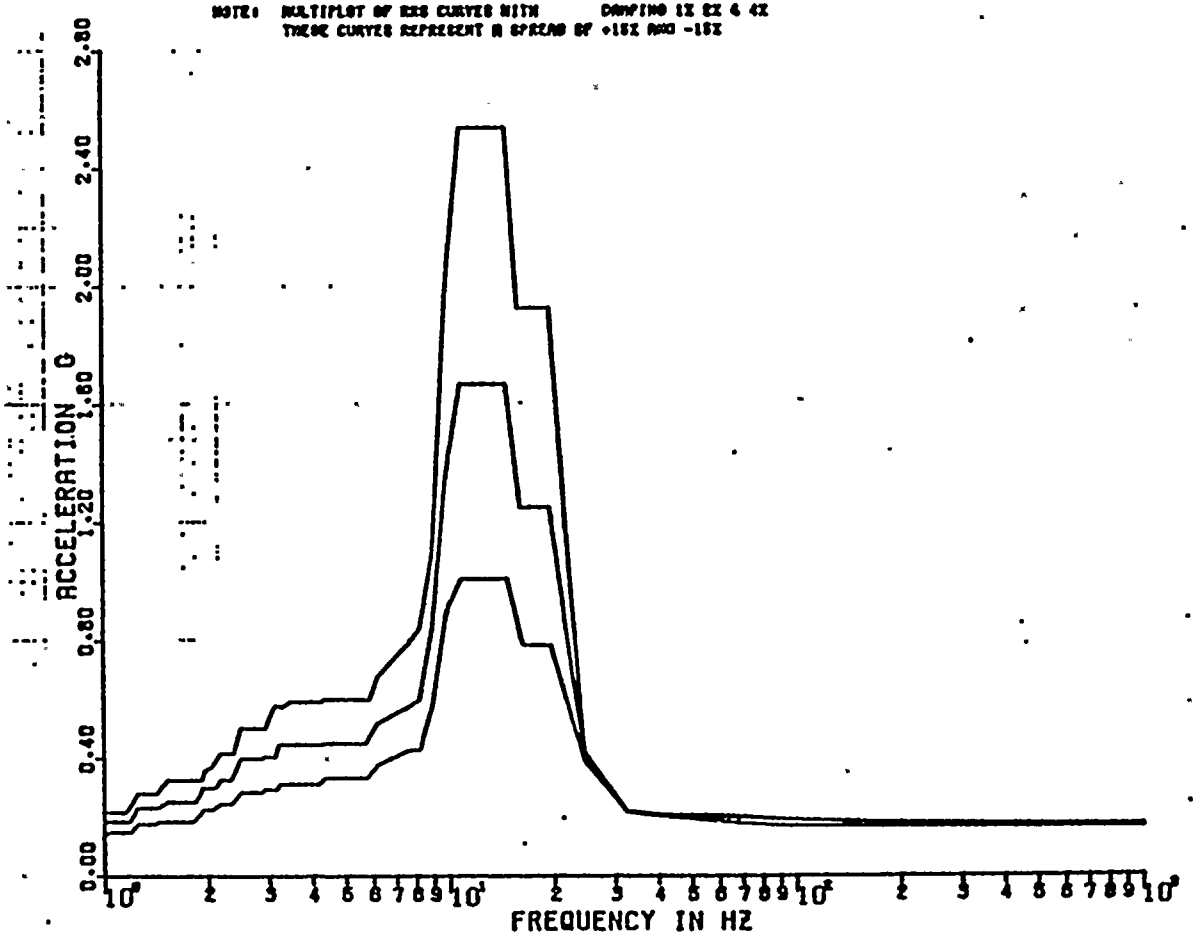
MS1765

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177
RRS OF ACC. DRYWELL FLOOR (ELEV 238.0 FT)

MICHAEL K OO

DISK CURVE SET NO.17 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 82

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982

00000092

MS1765

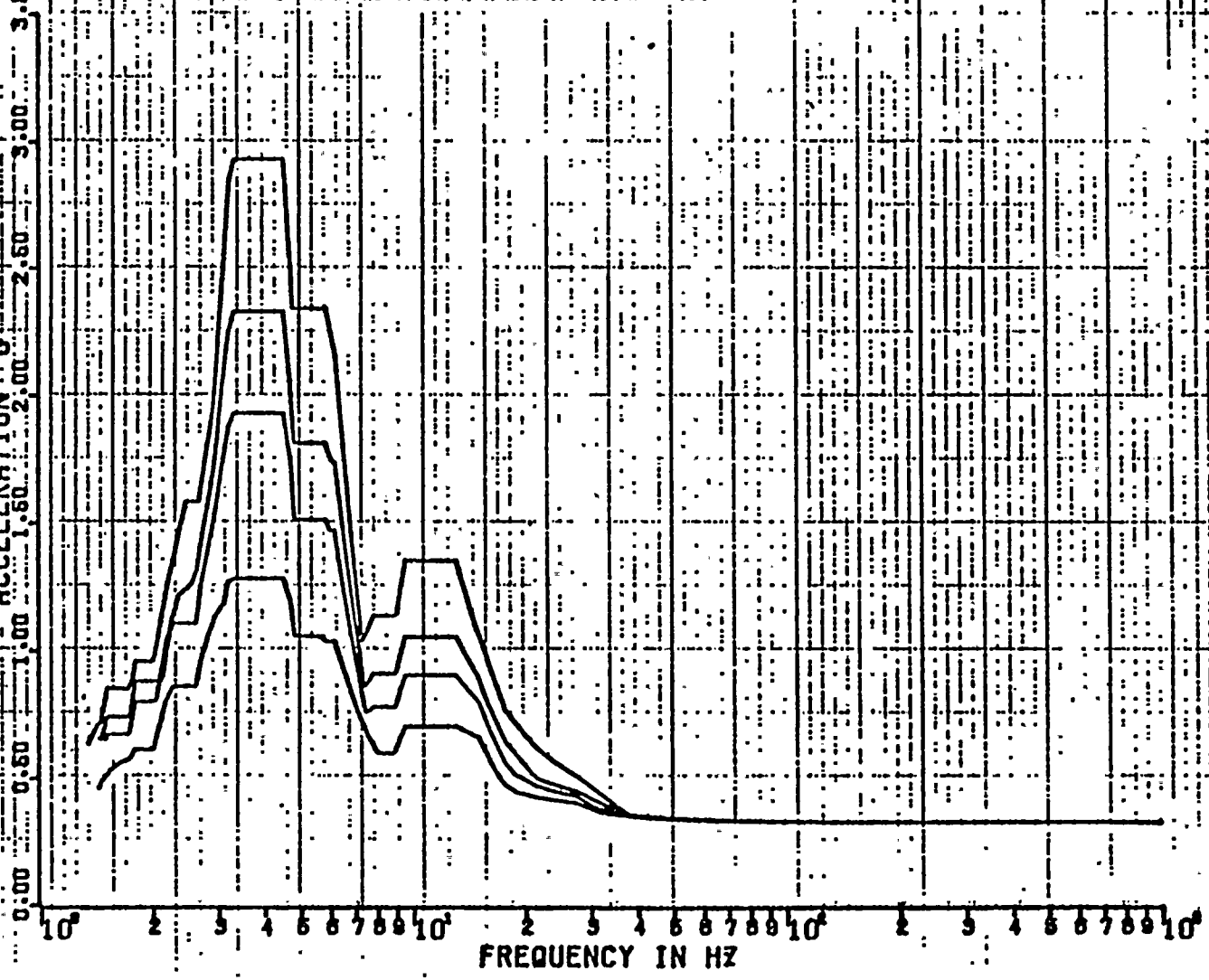
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177
RRS OF ACC. DRYWELL FLOOR (ELEV 238.0 FT)

MICHAEL K CO

DISK CURVE SET NO.17 HOR DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF. 82

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982

0000000093

MS1765

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

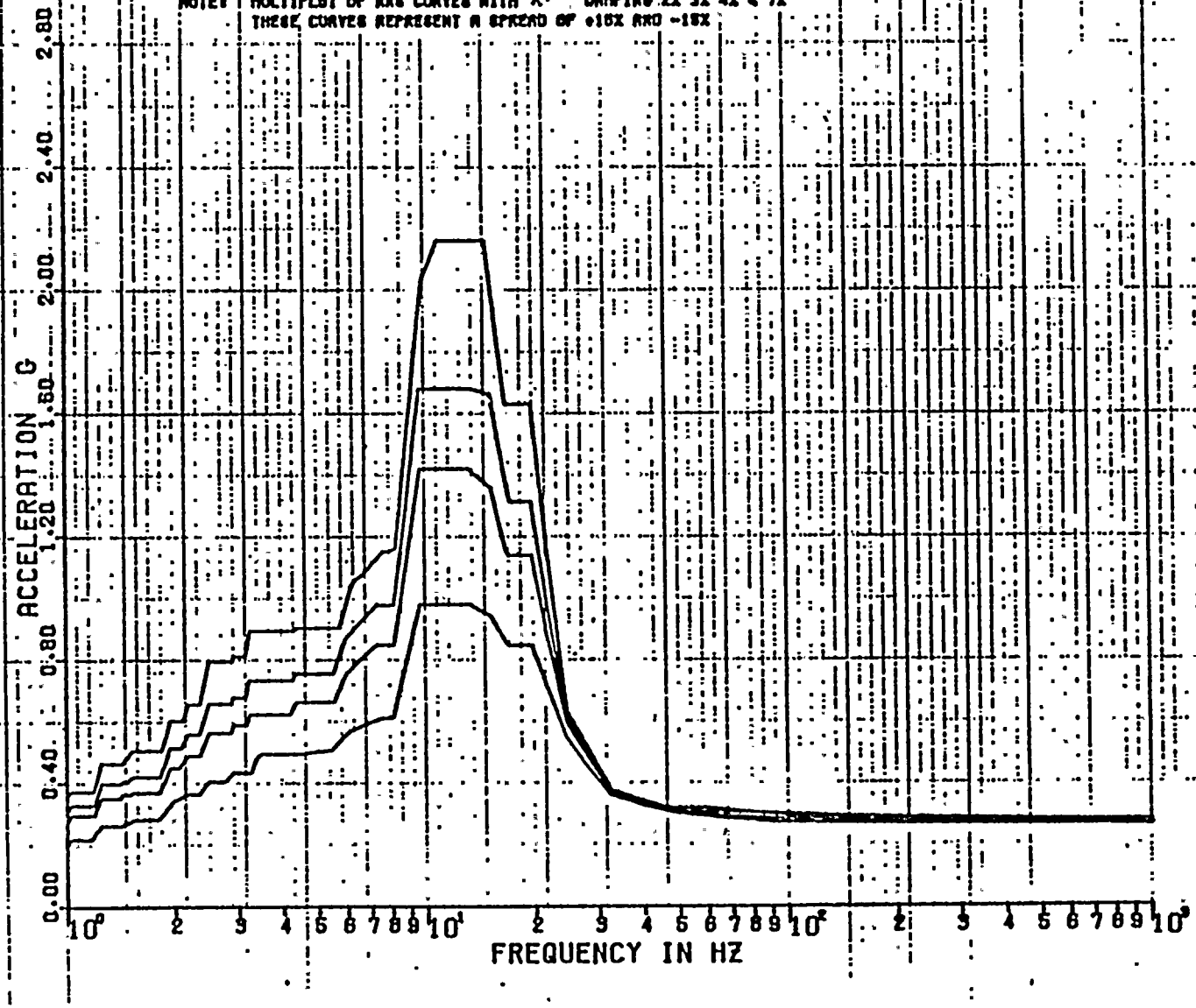
RRS OF ACC. DRYWELL FLOOR (ELEV 258.0 FT)

MICHAEL K OO

DISK CURVE SET NO.17 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 82

0000000049

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. PEDESTAL (ELEV. 288.50 FT)

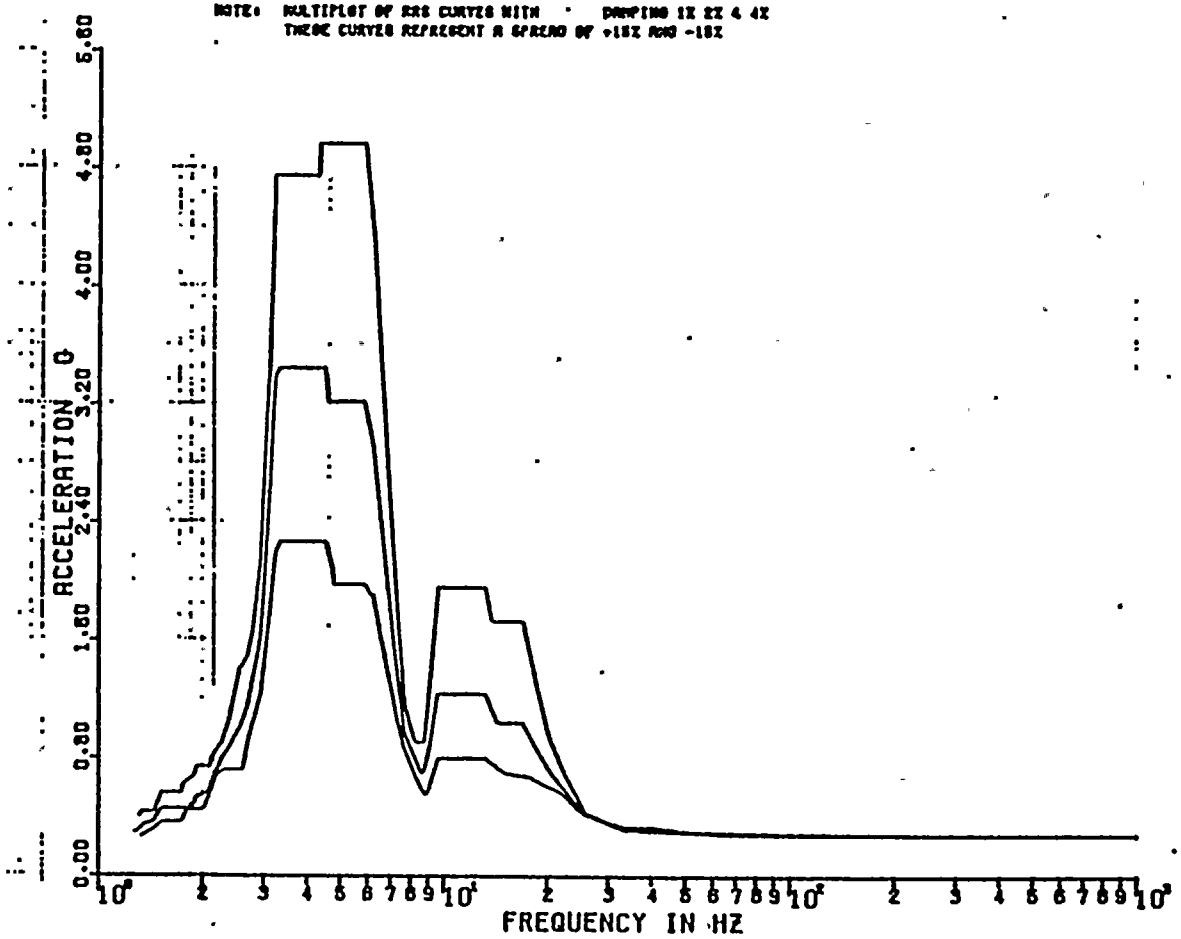
MS1765

MICHAEL K OO

DISK CURVE SET NO.13 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 83

0000000050

PSPECTRA VER 01 LEV 08 SEISMIC (OBE)

9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177
RRS OF ACC. PEDESTAL (ELEV. 288.50 FT)

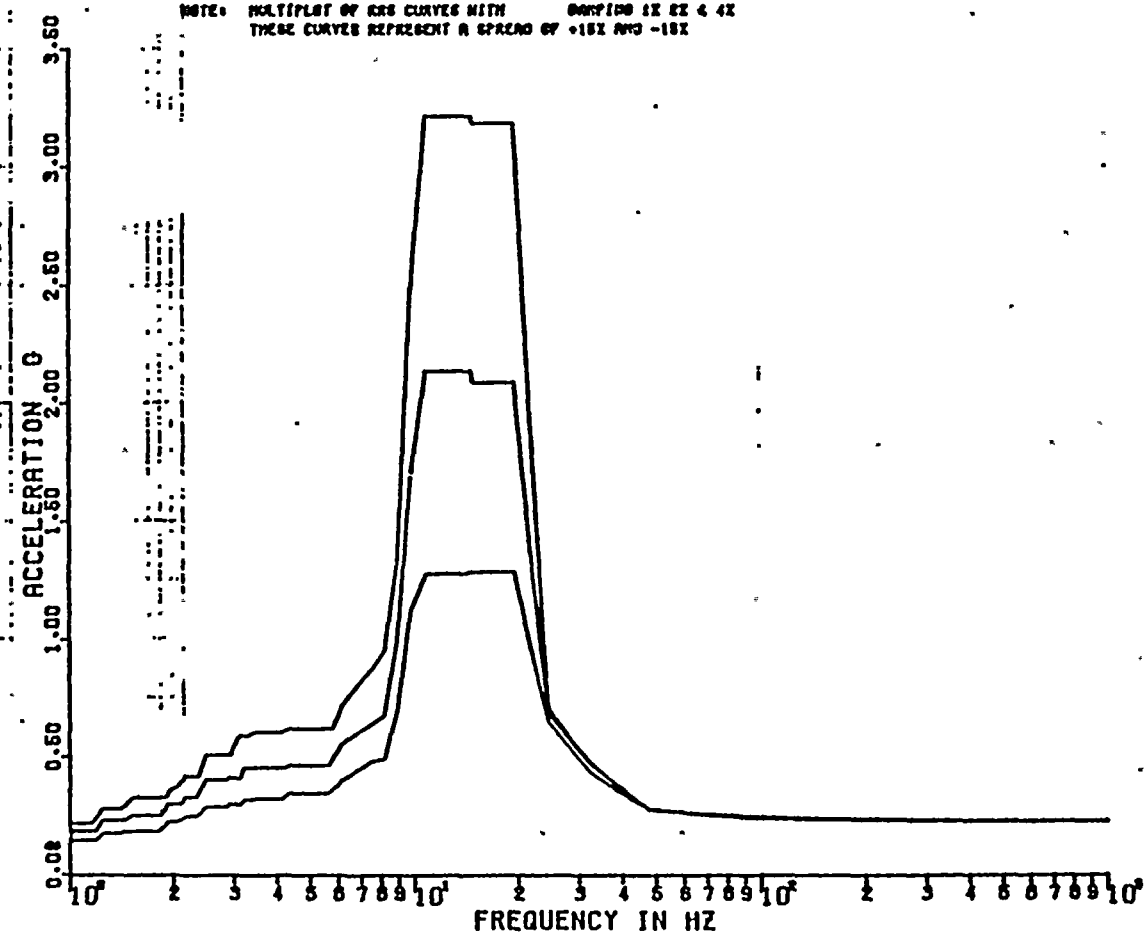
MS1765

MICHAEL K OO

DISK CURVE SET NO.13 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 83

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982 00000114

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

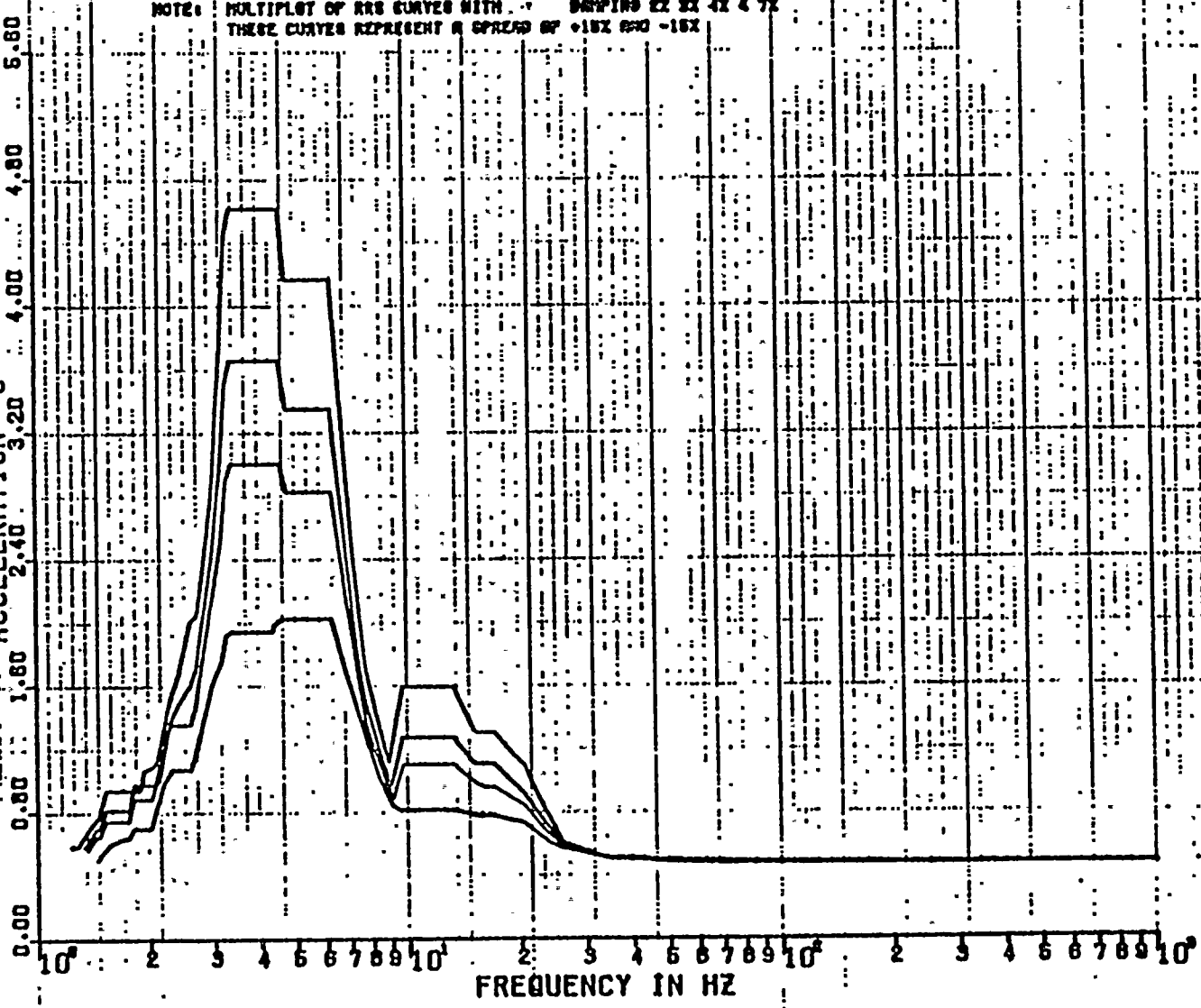
RRS OF ACC. PEDESTAL (ELEV. 266.50 FT)

MS1765

MICHAEL K OO

DISK CURVE SET NO.13 HOR DIRECTION DAMPING VALUES 0.020 0.030 0.040 0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF. 83

PSPECTRA VER 01 LEV 08 SMIC (66E) 11 DEC 1982

MS1765

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

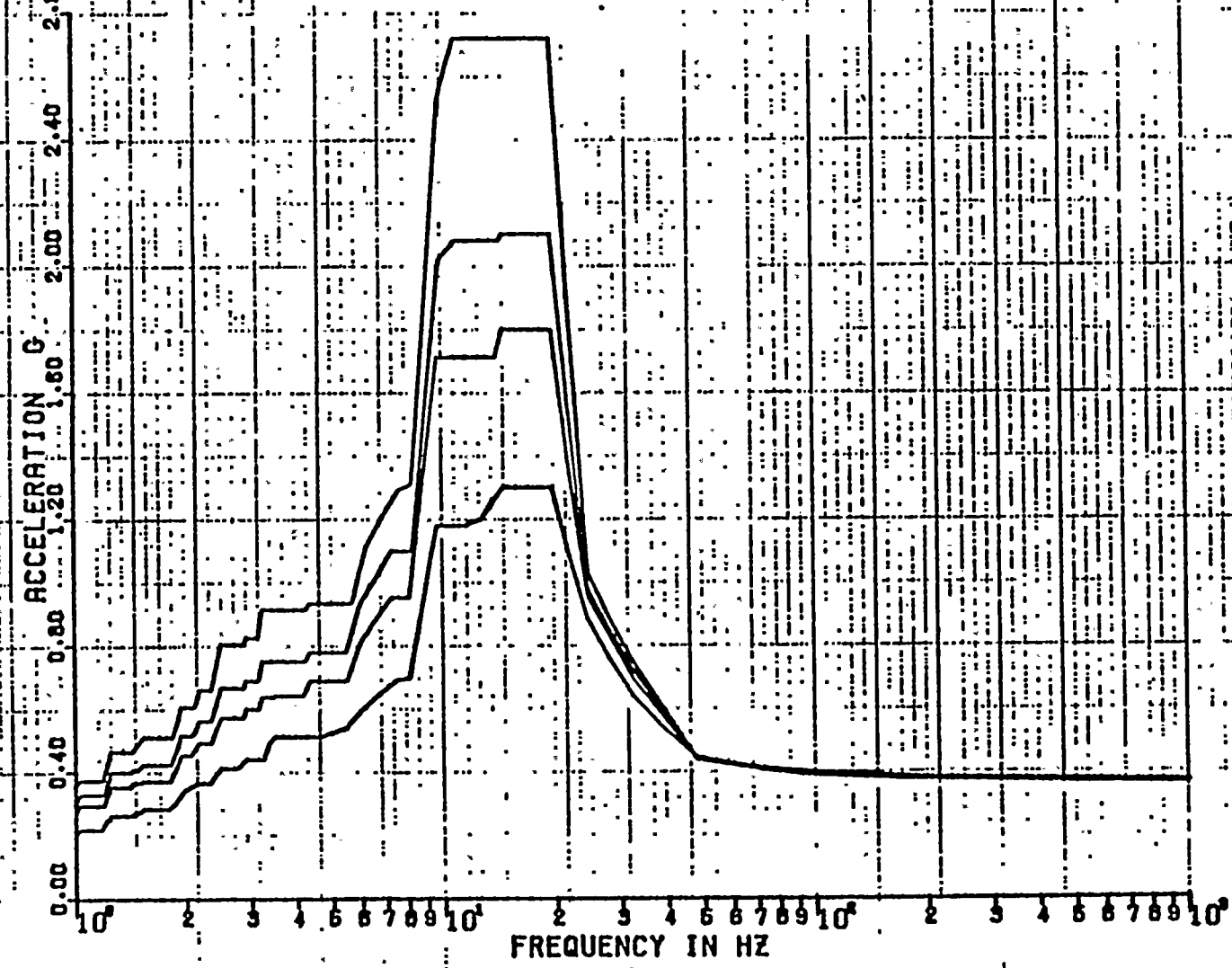
RRS OF ACC. PEDESTAL (ELEV. 266.50 FT)

MICHAEL K DO

DISK CURVE SET NO.13 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



PAGE 83

0000000051

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

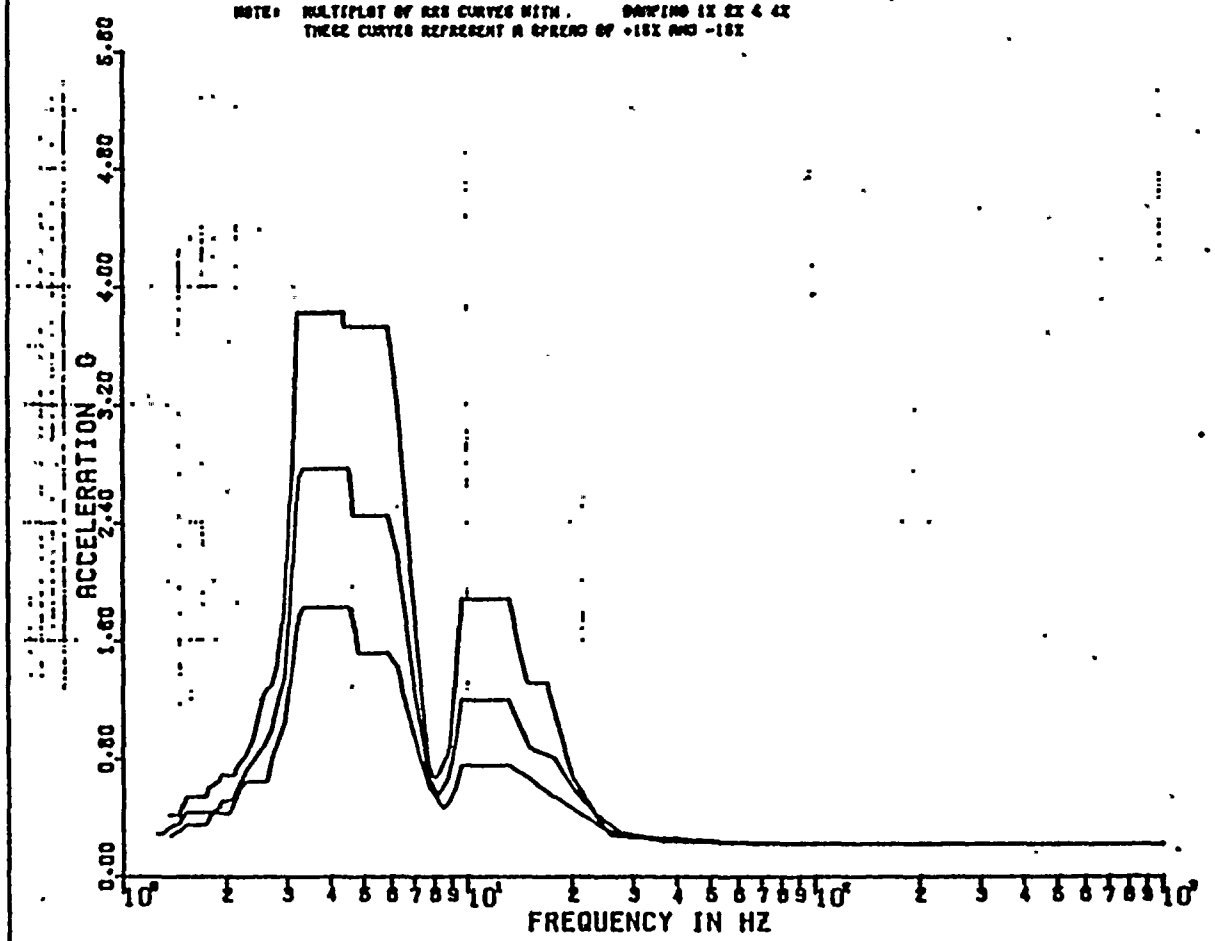
MS1765

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177
RRS OF ACC. PEDESTAL (ELEV.259.13 FT)

MICHAEL K OO

DISK CURVE SET NO.16 HOR DIRECTION DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH . DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 84

0000000052

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

MIRORRA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

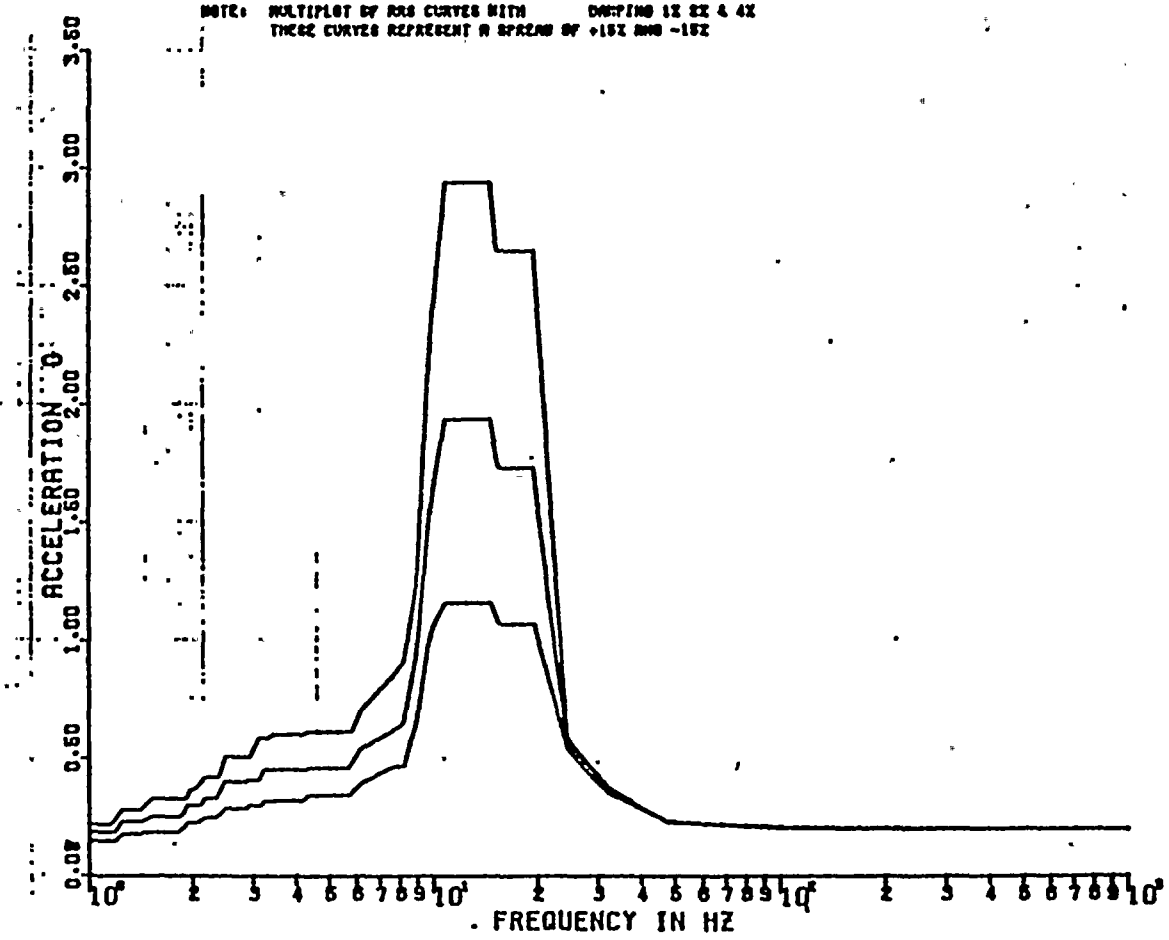
RRS OF ACC. PEDESTAL (ELEV.253.13 FT)

MS1765

MICHAEL K OO

DISK CURVE SET NO.15 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 84

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RMS OF ACC. PEDESTAL (ELEV.259.13 FT)

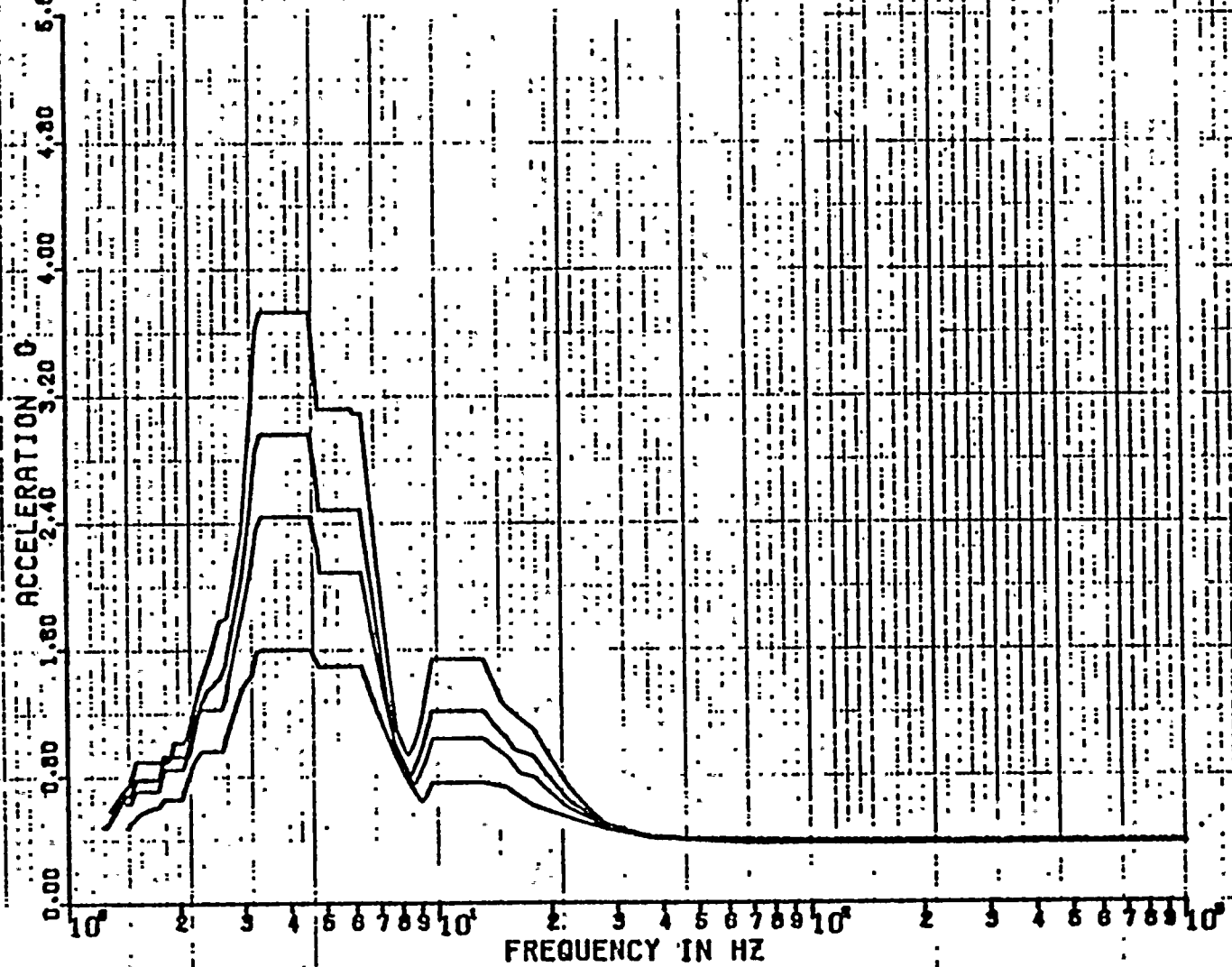
MS1765

MICHAEL K OO

DISK CURVE SET NO.15 HOR DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



PSPECTRA VER 01 LEV 08 ... IC (88E) 11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. PEDESTAL (ELEV.283.13 FT)

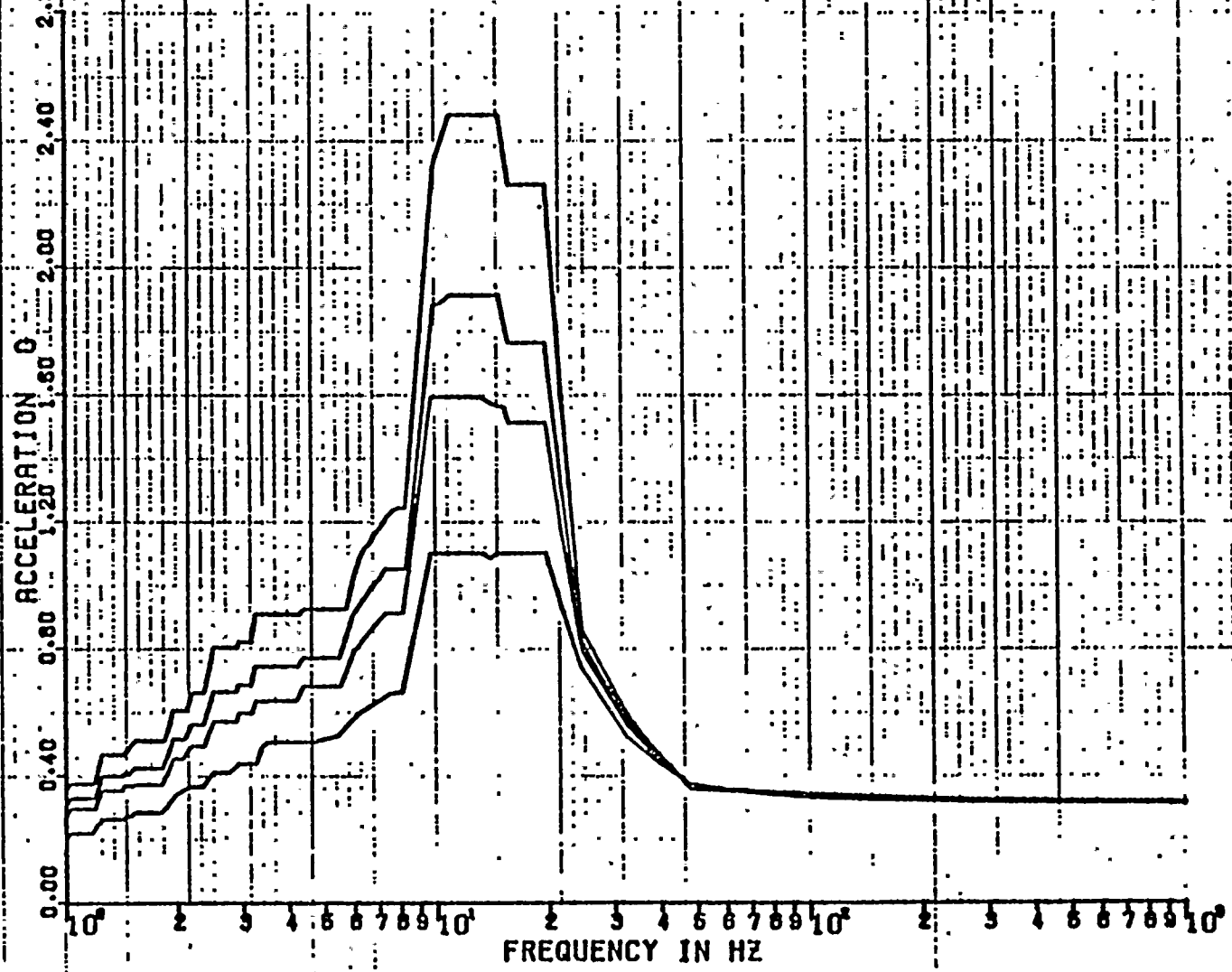
MS1765

MICHAEL K OO

DISK CURVE SET NO.16 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH ... DAMPING EX 3X 4X & 7X
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 84

0000000027

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177
RRS OF ACC. DRYWELL FLOOR (ELEV 238.0 FT)

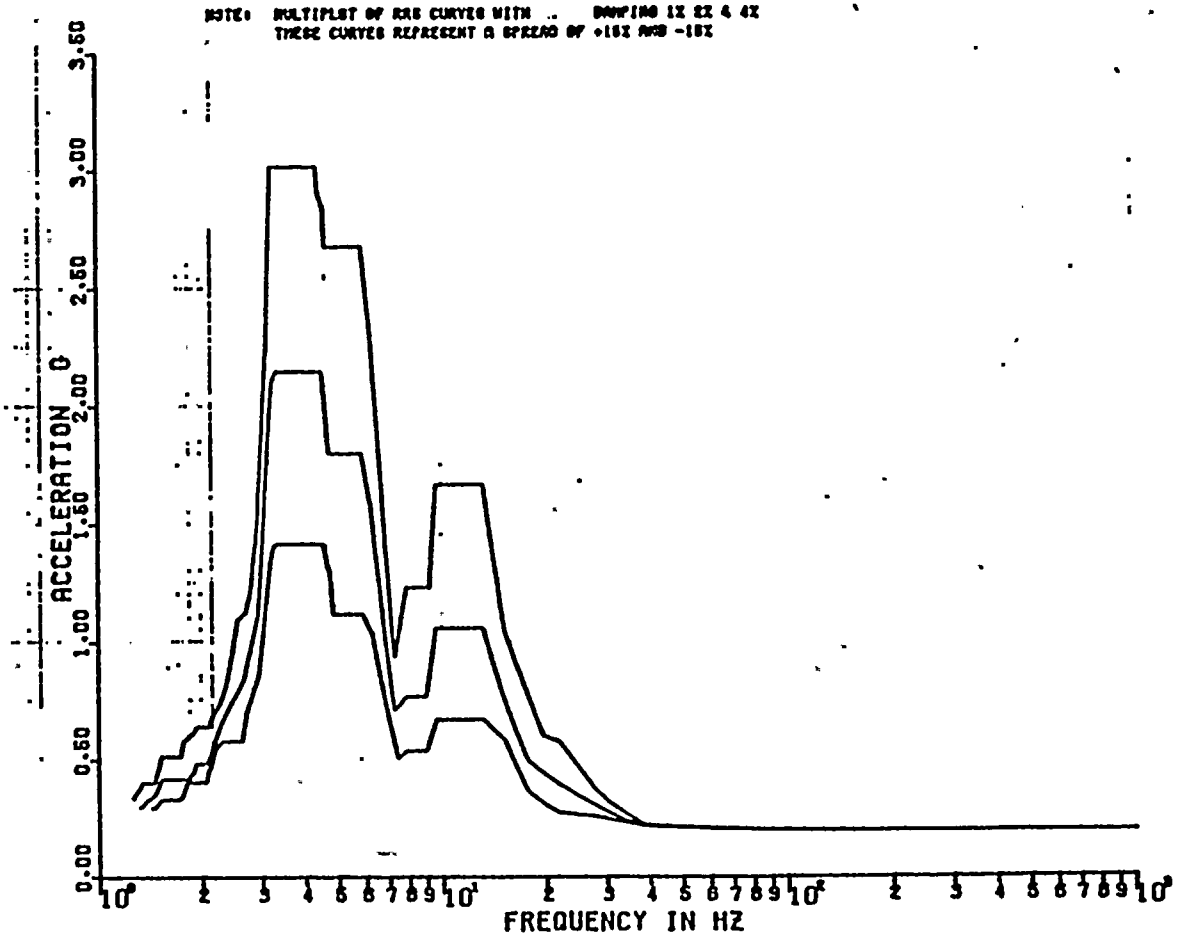
MS1765

MICHAEL K DO

DISK CURVE SET NO.17 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH .. DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 85

0000000028

PSPECTRA VER 01 LEV 08 SEISMIC (OBE)

9 DEC 1982

MS1765

MIRDARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177
RRS OF ACC. DRYWELL FLOOR (ELEV 238.0 FT)

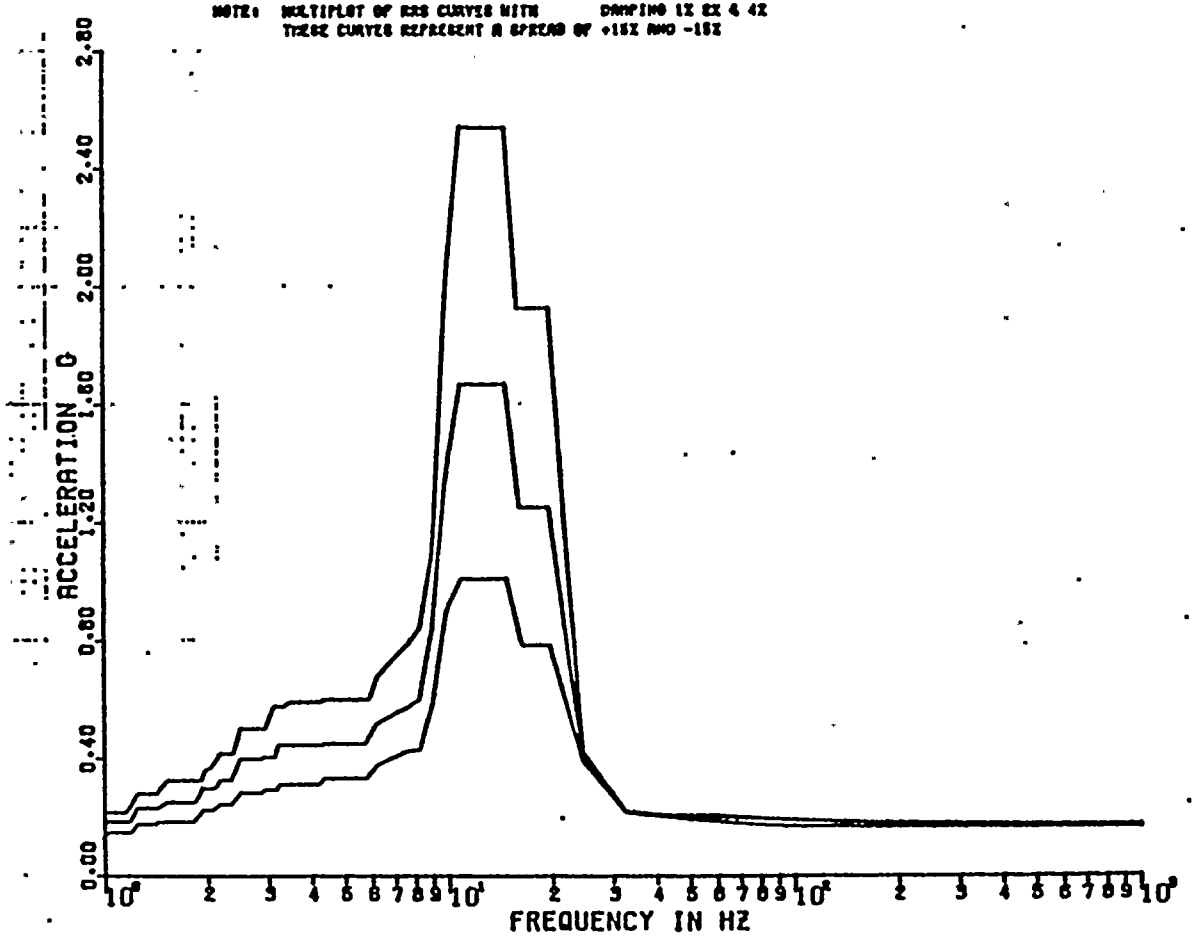
MICHAEL K DO

DISK CURVE SET NO.17

VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 85

PSPECTRA VER 01. LEV 08 SEISMIC (SSE) 11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. DRYWELL FLOOR (ELEV 238.0 FT)

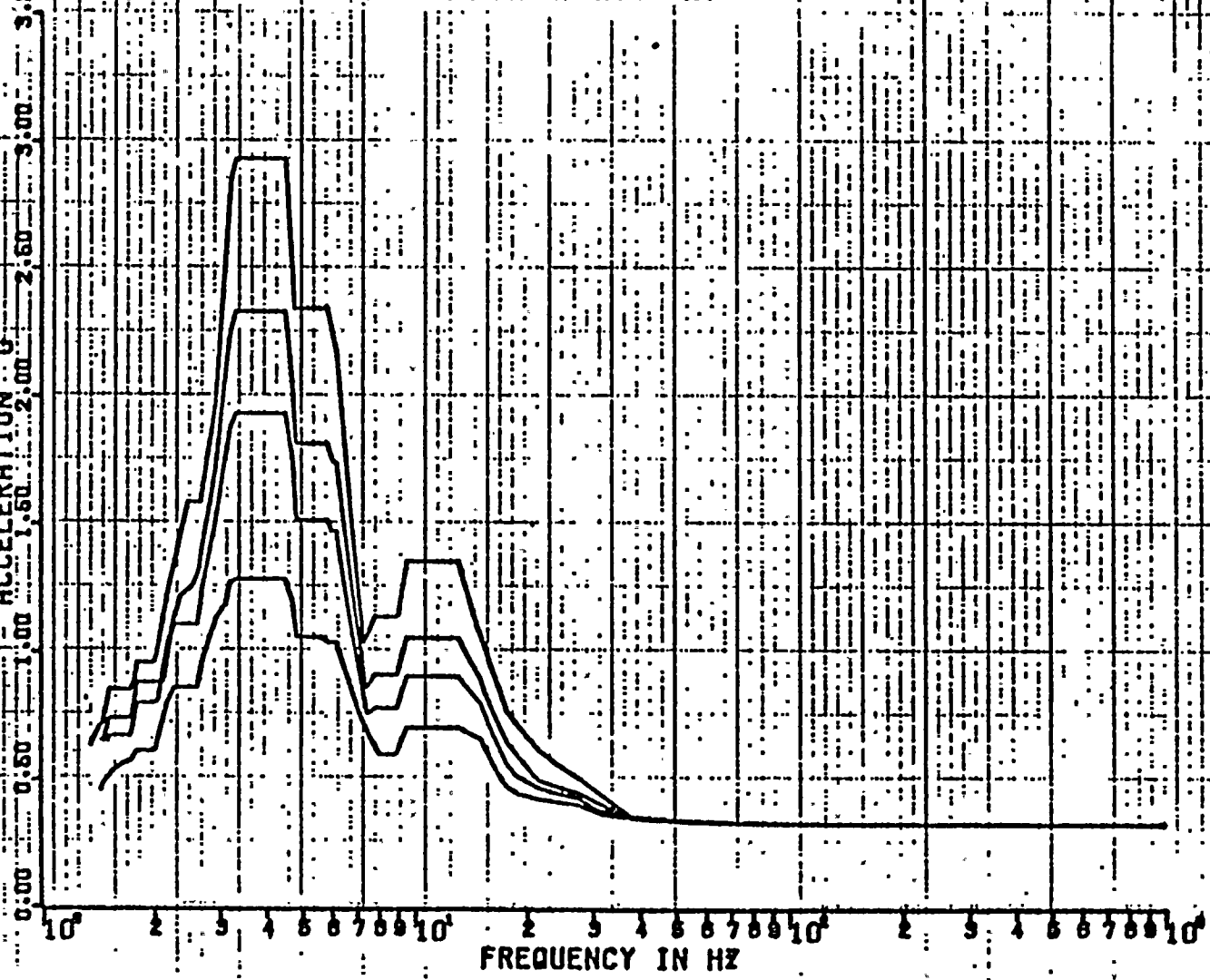
MS1765

MICHAEL K CO

DISK CURVE SET NO.17 HOR DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 85

PSPECTRA VER 01 LEV 08 SEISMIC (66E) 11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. DRYWELL FLOOR (ELEV 298.0 FT)

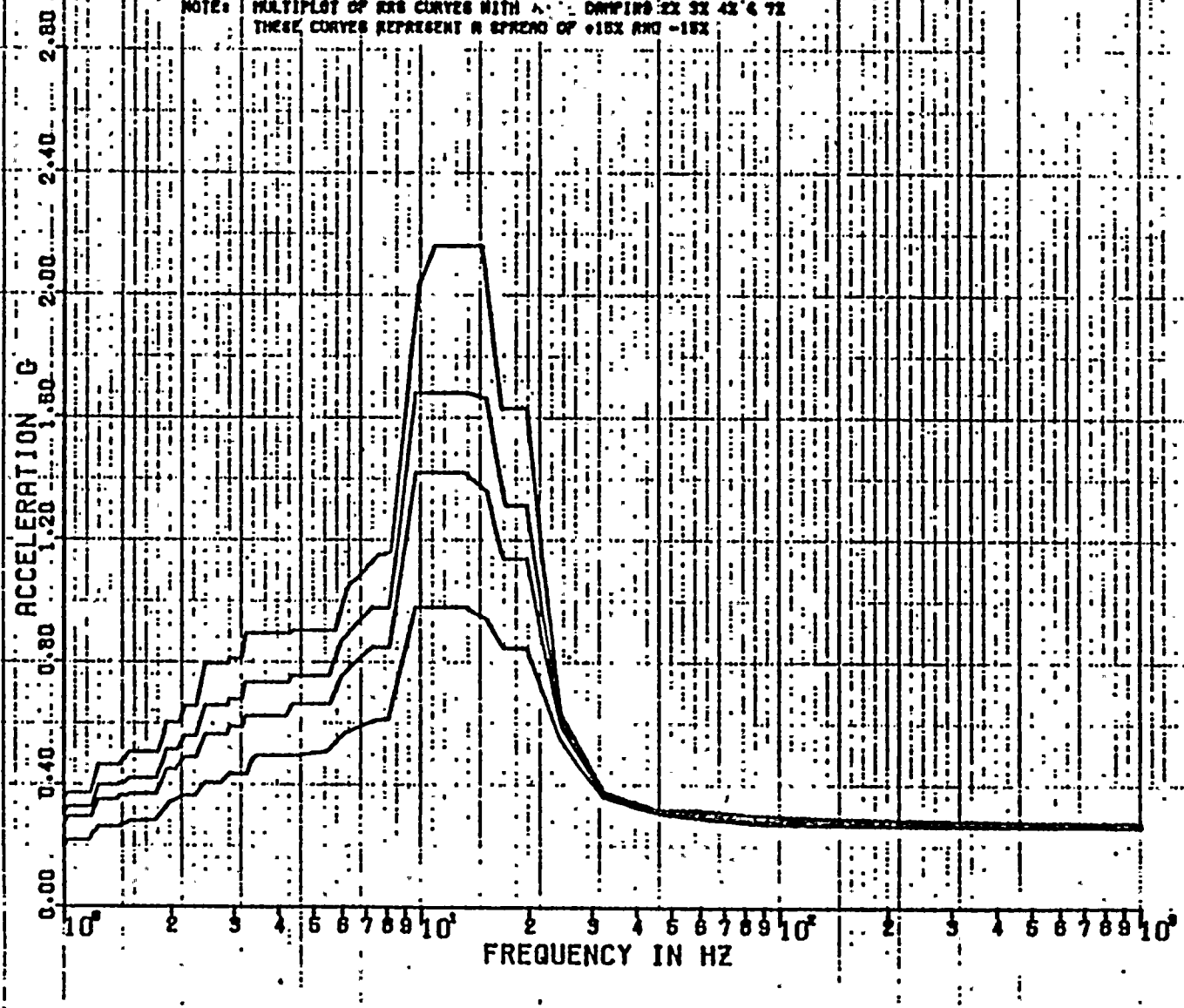
MS1765 0000000093

MICHAEL K DO

DISK CURVE SET NO.17 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH A DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 85

0000000053

PSPECTRA VER 01 LEV 00 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF RCC. PEDESTAL (ELEV. 217.50 FT)

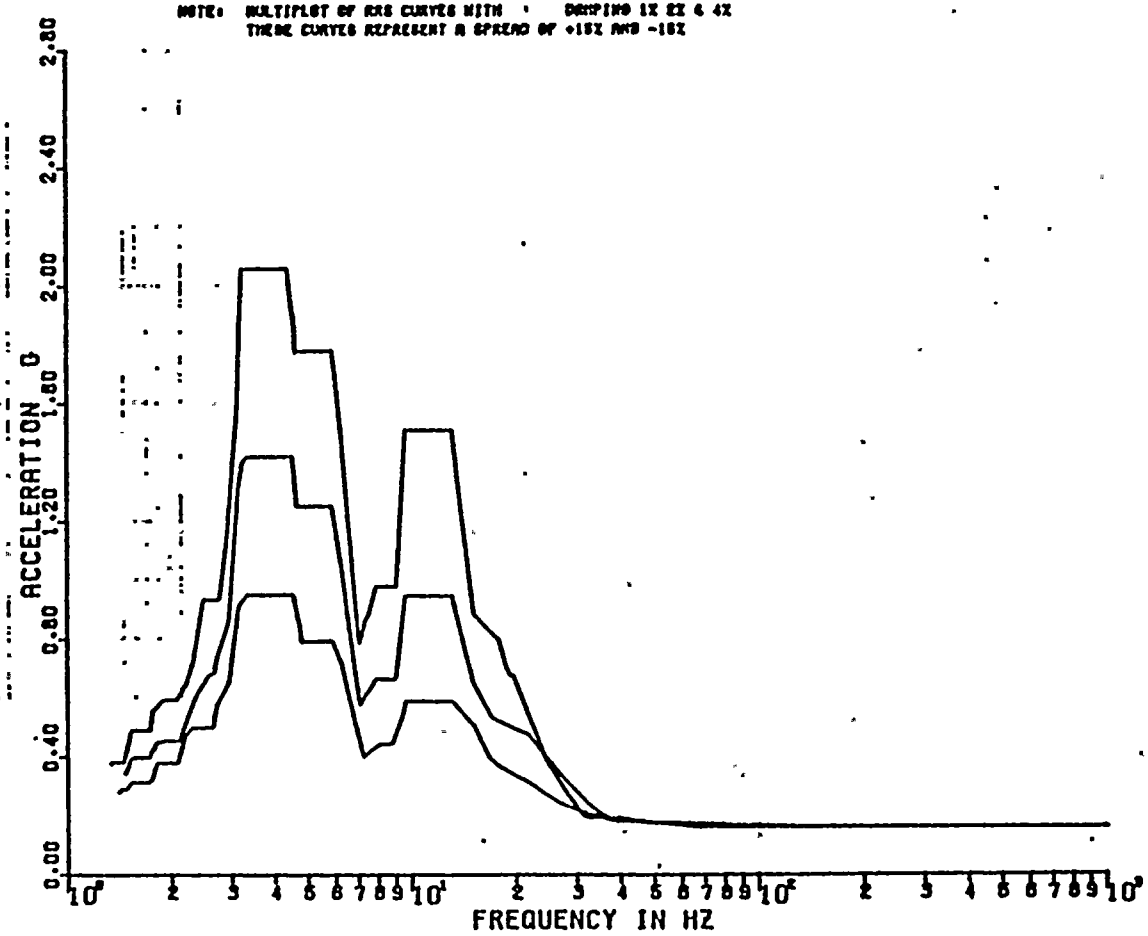
MS1765

MICHAEL K OO

DISK CURVE SET NO.18 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 86

0000000054

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

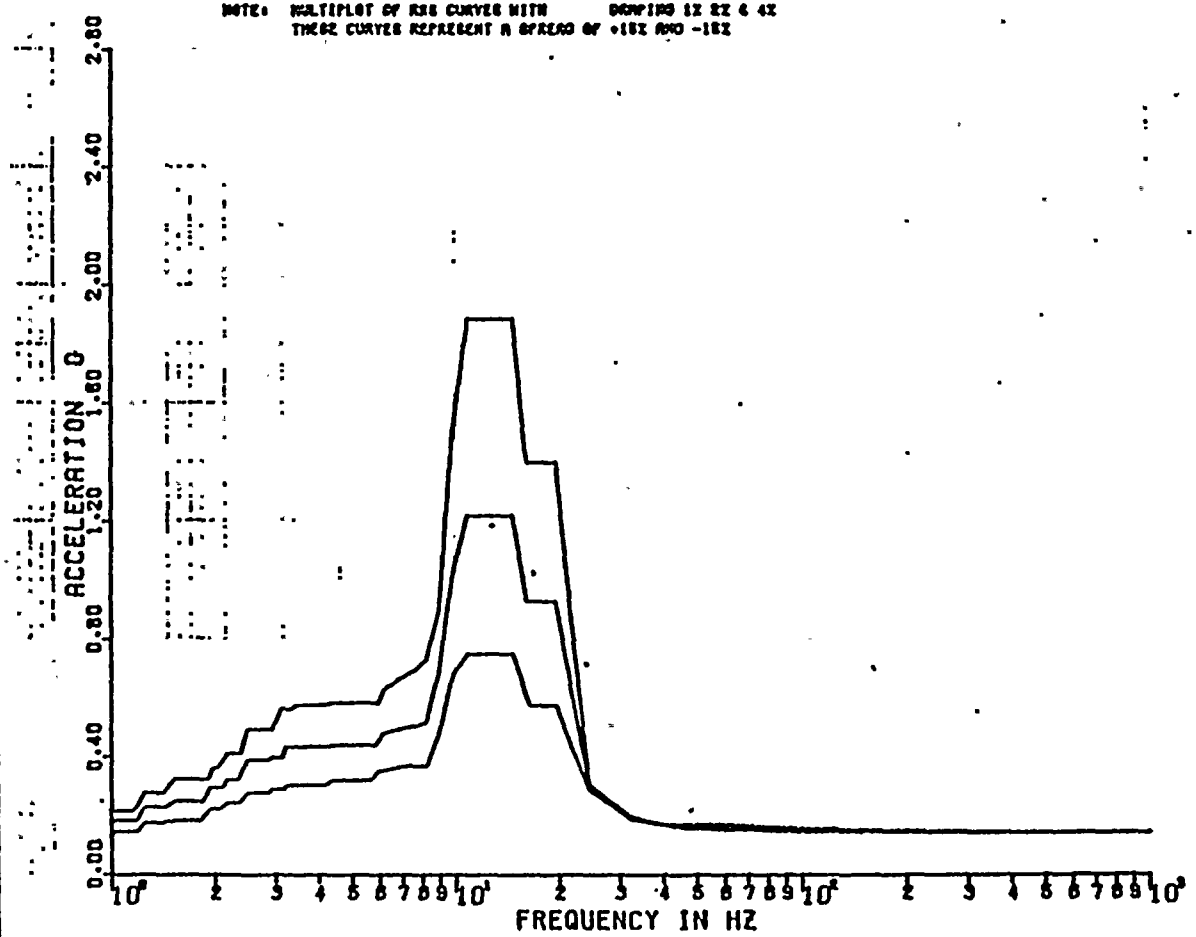
RRS OF ACC. PEDESTAL (ELEV. 217.50 FT)

MS1765

MICHAEL K OO

DISK CURVE SET NO.18 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 86.

PSPECTRA VER 01 LEV 08 . SEISMIC (SSE) 11 DEC 1982 000 0118

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

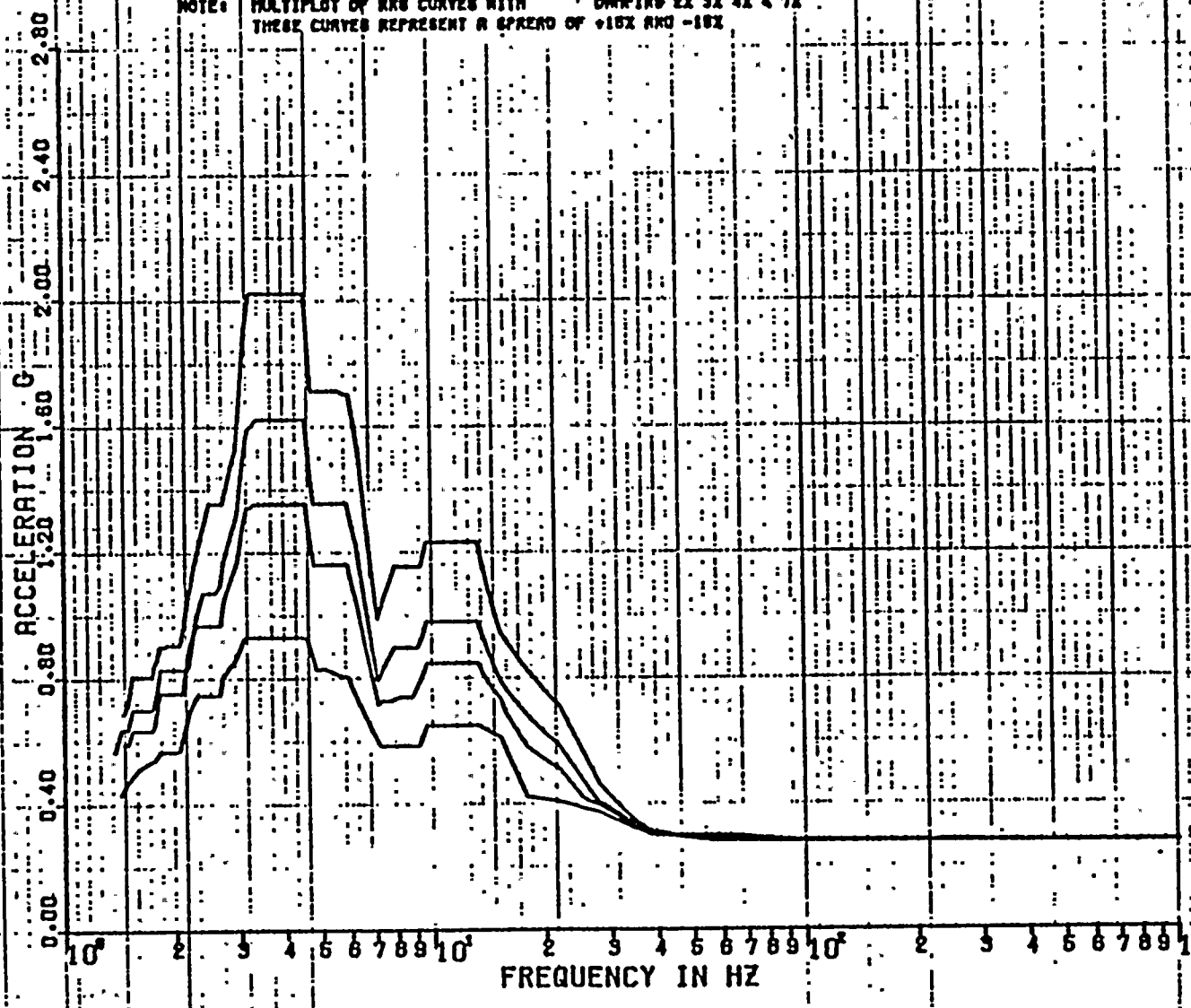
RRS OF ACC. PEDESTAL (ELEV. 217.50 FT)

MS1765

MICHAEL K OO

DISK CURVE SET NO.16 HOR DIRECTION DAMPING VALUES = 0.020 0.030 0.040 0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 98

PSPECTRA VER 01 LEV 08 | SEISMIC (SSE) 11 DEC 1982

MS1765

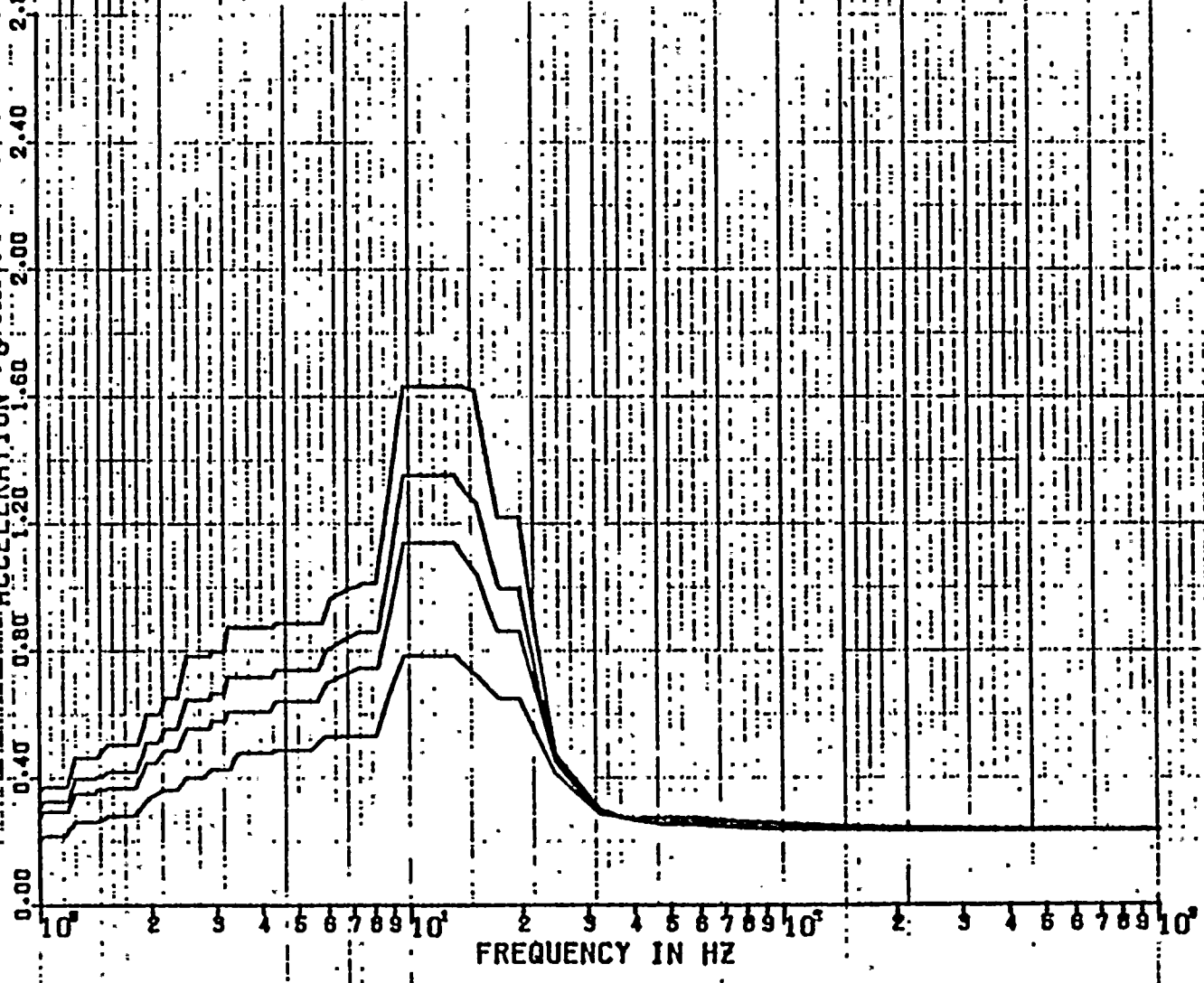
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. PEDESTAL (ELEV. 217.50 FT)

MICHAEL K DO

DISK CURVE SET NO.18 VER DIRECTION DAMPING VALUES = 0.020 0.030 0.040 0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



98

0000000055

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. PEDESTAL (ELEV. 198.25 FT)

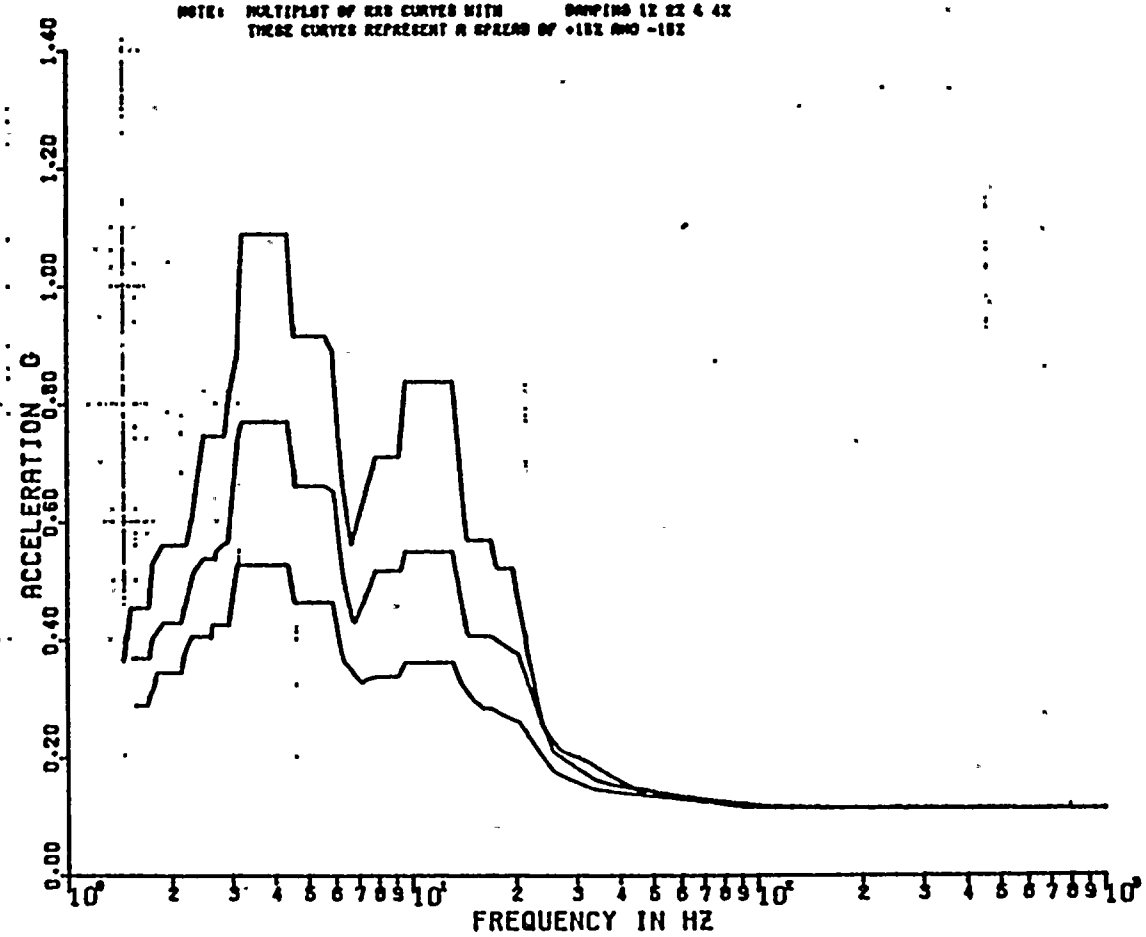
MS1765

MICHAEL K OO

DISK CURVE SET NO.20 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +18% AND -18%



REF 87

0000020056

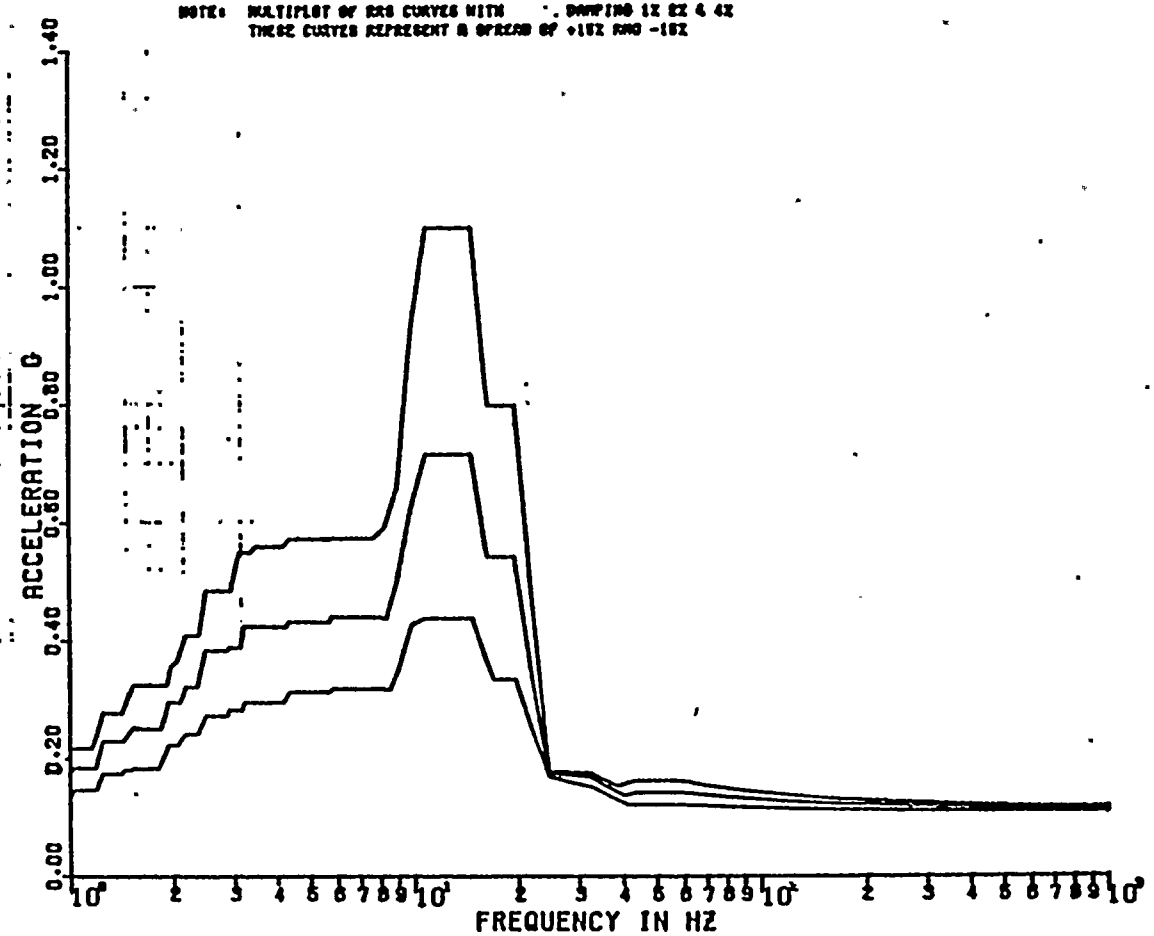
PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177
RRS OF ACC. PEDESTAL (ELEV. 186.25 FT)

MS1765
MICHAEL K OO

DISK CURVE SET NO.20 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH ', DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +18% AND -18%



REF 87

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982 0006 0120

MS1765

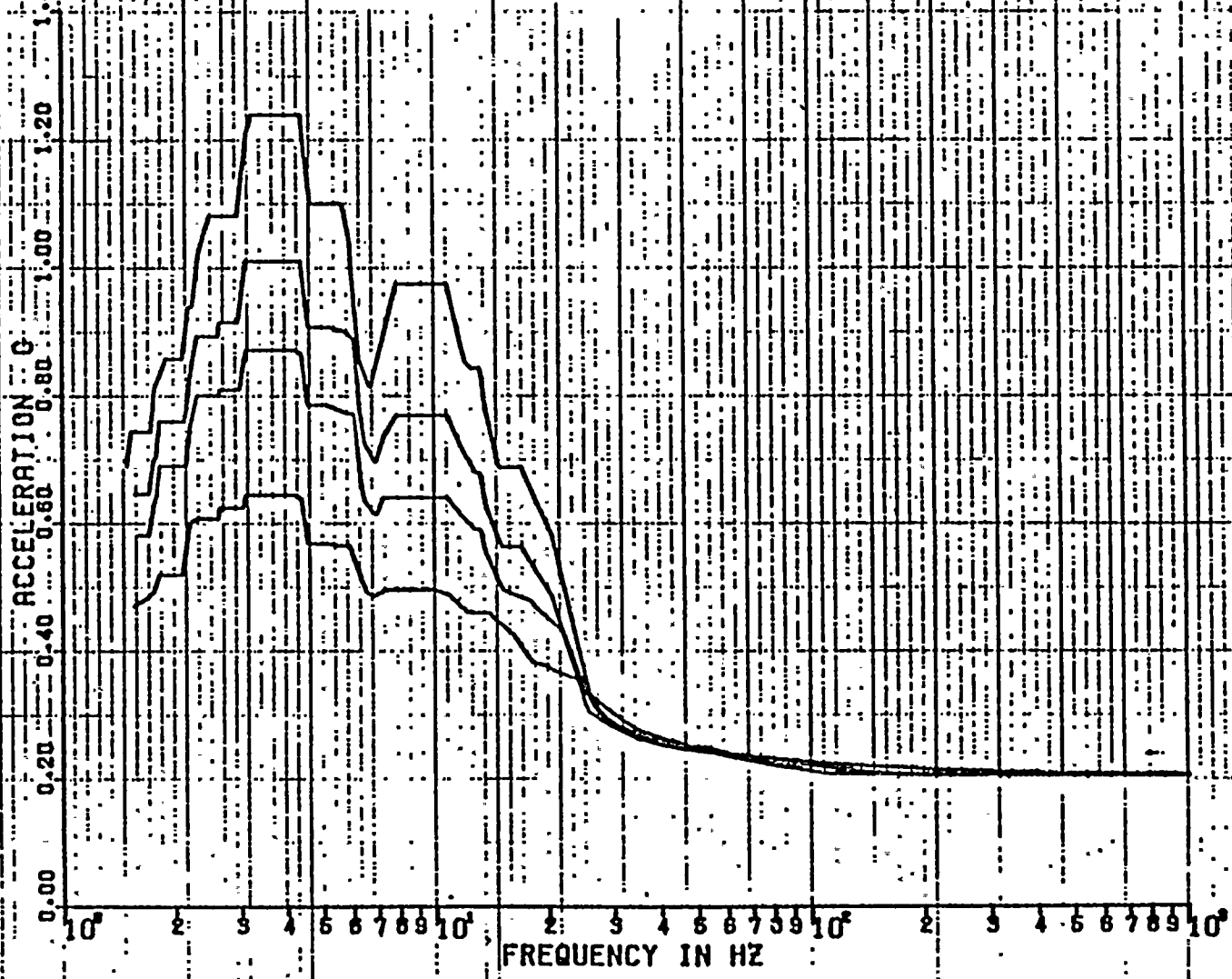
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. PEDESTAL (ELEV. 186.25 FT)

MICHAEL K OO

DISK CURVE SET NO.20 HOR DIRECTION DAMPING VALUES = 0.020 0.030 0.040 0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



U8 3ZD

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. PEDESTAL (ELEV. 198.25 FT)

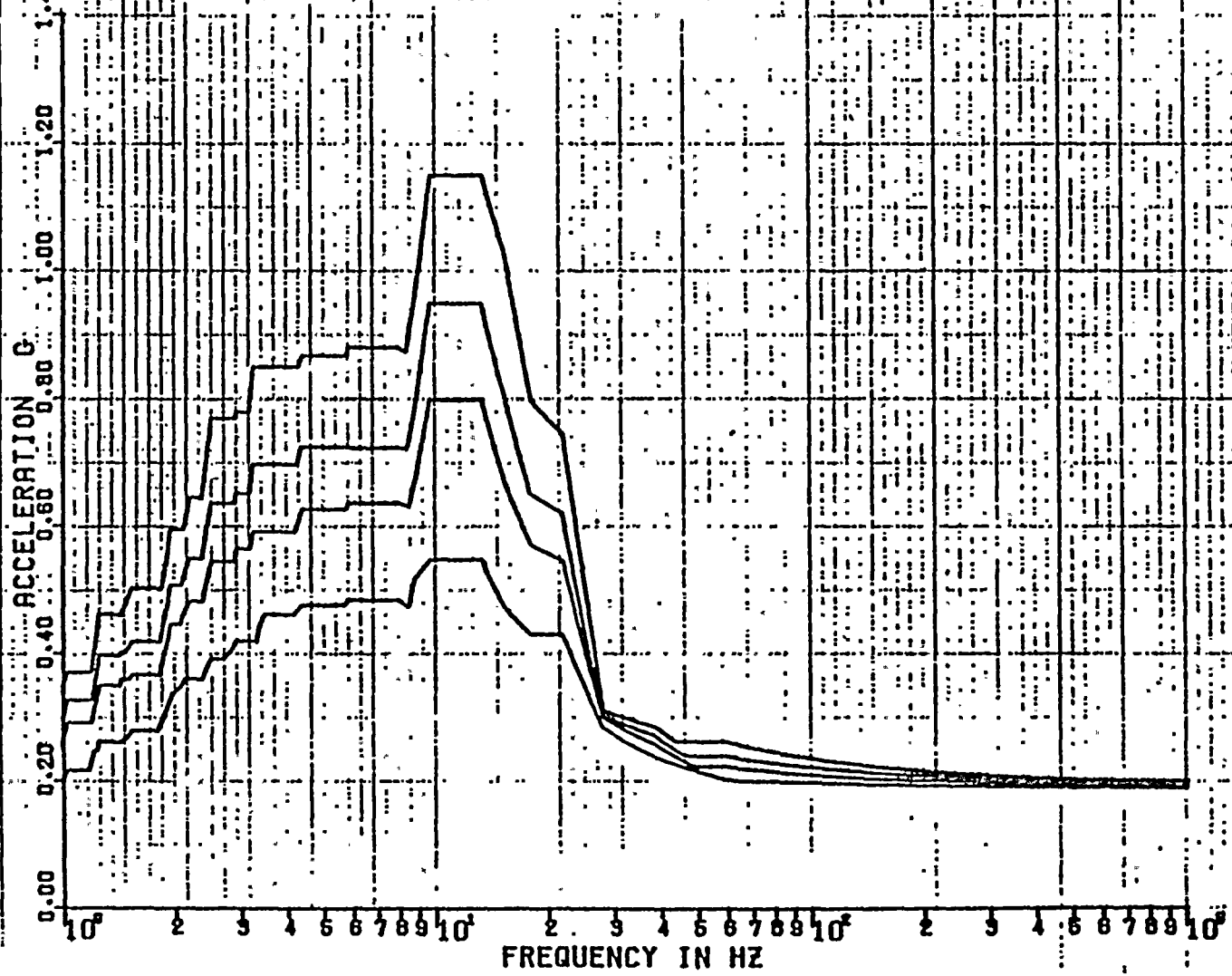
MS1765

MICHAEL K OO

DISK CURVE SET NO.20 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 87

0000000057

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

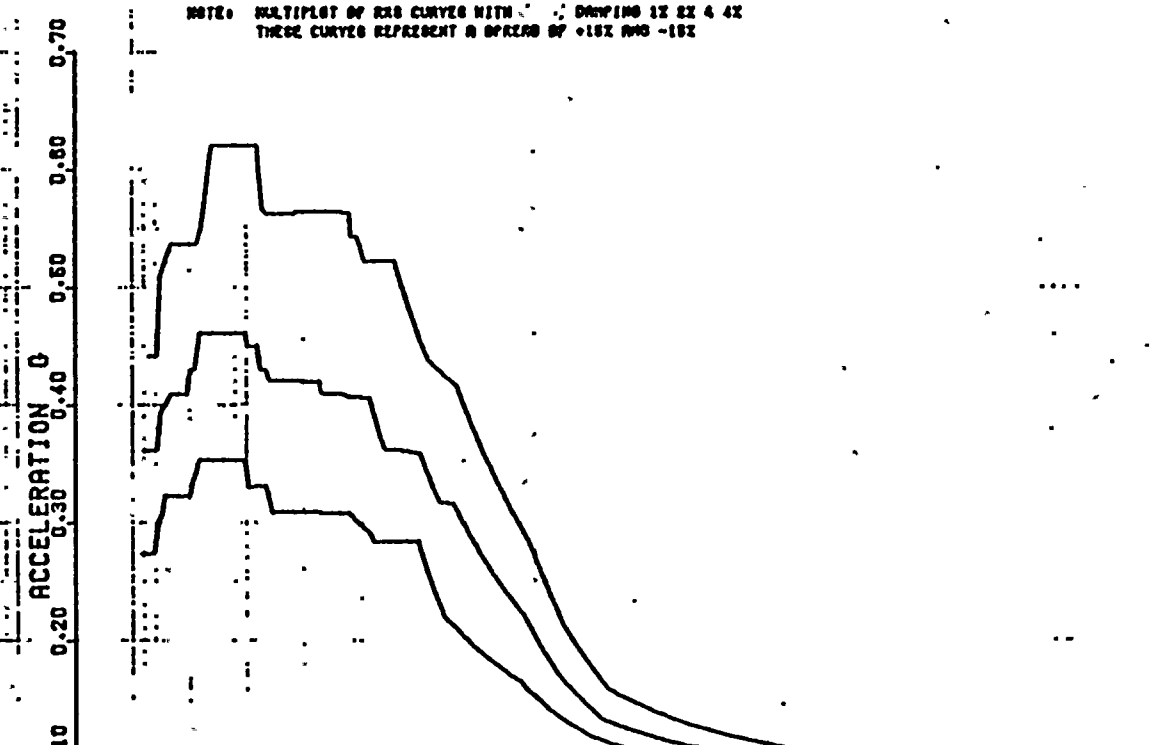
RRS OF ACC. BASE MAT (ELEV 175.0 FT)

MS1765

MICHAEL K OO

DISK CURVE SET NO.22 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% 4 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 88

000000058

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 9 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. BASE MAT (ELEV 175.0 FT)

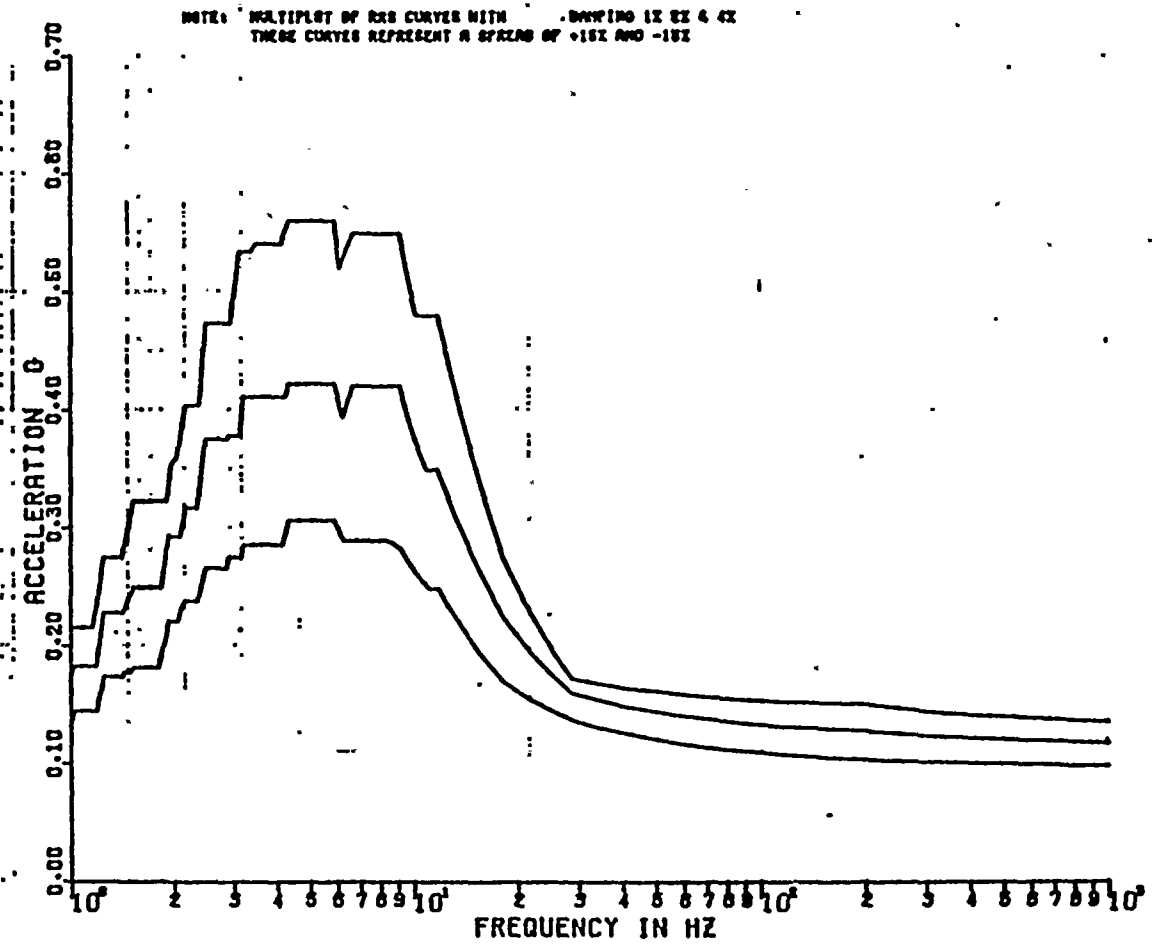
MS1765

MICHAEL K OO

DISK CURVE SET NO.22 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



RCP 88

PSPECTRA VER 01 LEV 08 SMIC (SSE) 11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. BASE MAT (ELEV 175.0 FT)

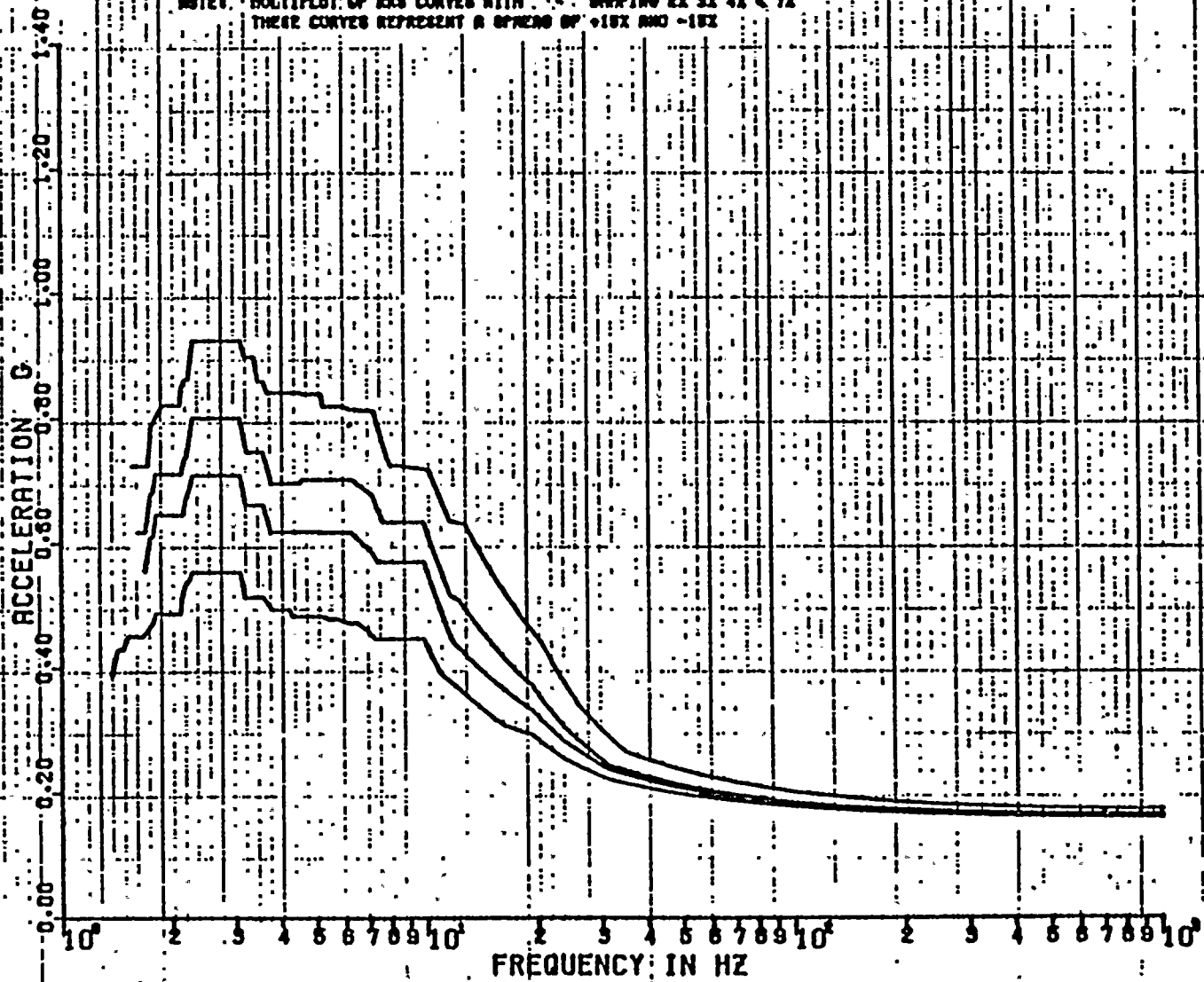
MS1765

MICHAEL K OO

DISK CURVE SET NO.22 HOR DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



88

PSPECTRA VER 01 LEV 00 MIC (88E) 11 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177

RRS OF ACC. BASE MAT (ELEV 175.0 FT)

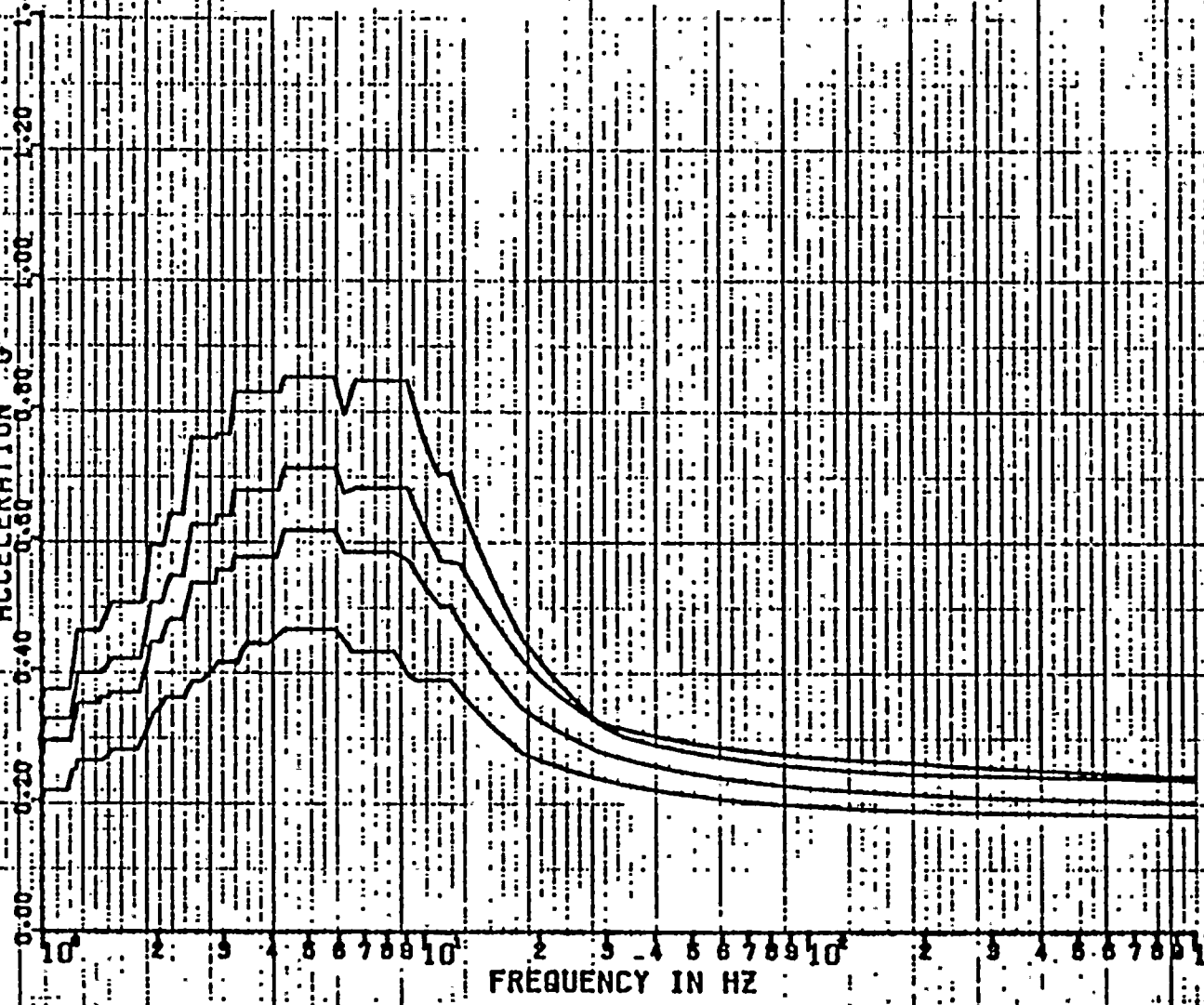
MS1765

MICHAEL K GO

DISK CURVE SET NO.22 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: MULTIPLIT OF RRS CURVES WITH DAMPING 2% 3% 4% & 7%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 88

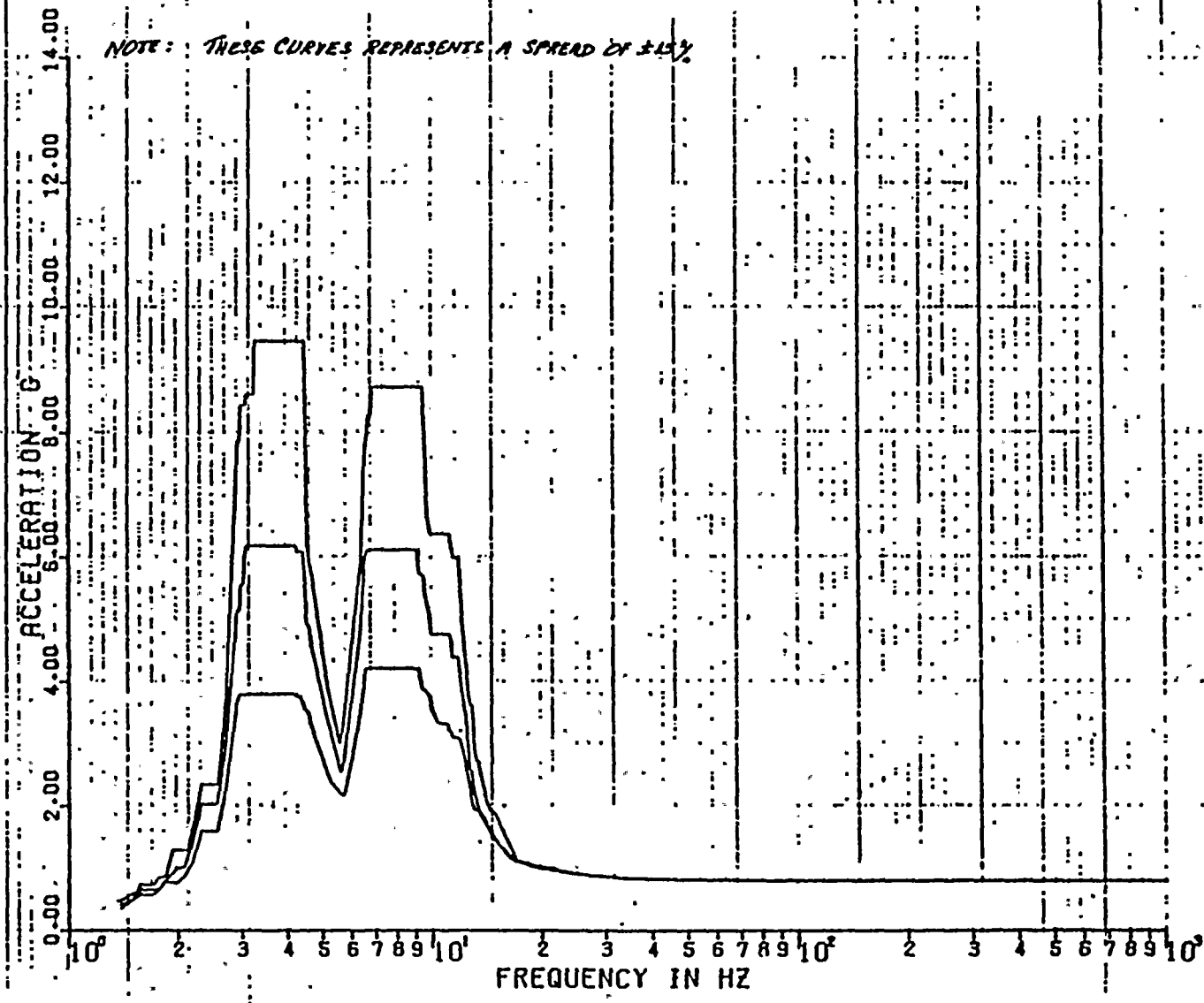
PSPECTRA VER 01 LEV 08 SEISM 086) 27 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177 MS-1765-0
RRS OF ACC. SECONDARY CONT. (ELEV. 416.89 FT.)

MS1765

DISK CURVE SET NO.1 HOR DIRECTION DAMPING VALUES = 0.010
0.020
0.040

NOTE: THESE CURVES REPRESENTS A SPREAD OF ±15%



59

REF 89

PSPECTRA VER 01 LEV 08 SEISMIC (86) 27 DEC 1982

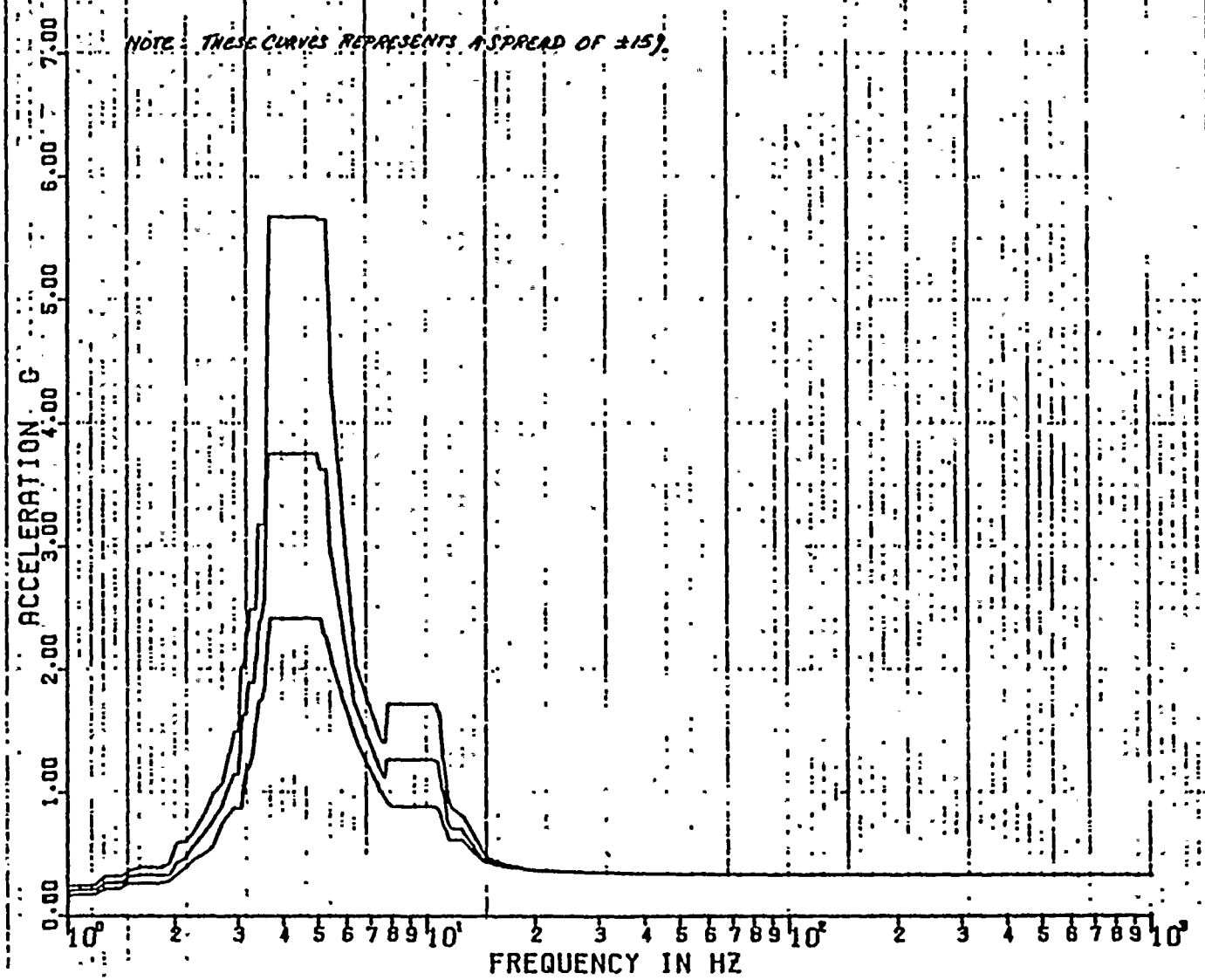
NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177 MS-1765-0

RRS OF ACC. SECONDARY CONT. (ELEV. 416.83 FT.)

MS1765

DISK CURVE SET NO.1 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.040

NOTE: THESE CURVES REPRESENTS A SPREAD OF ±15%.



REF 89

PSPECTRA VER 01 LEV 08 SEIS[illegible]SE) 27 DEC 1982

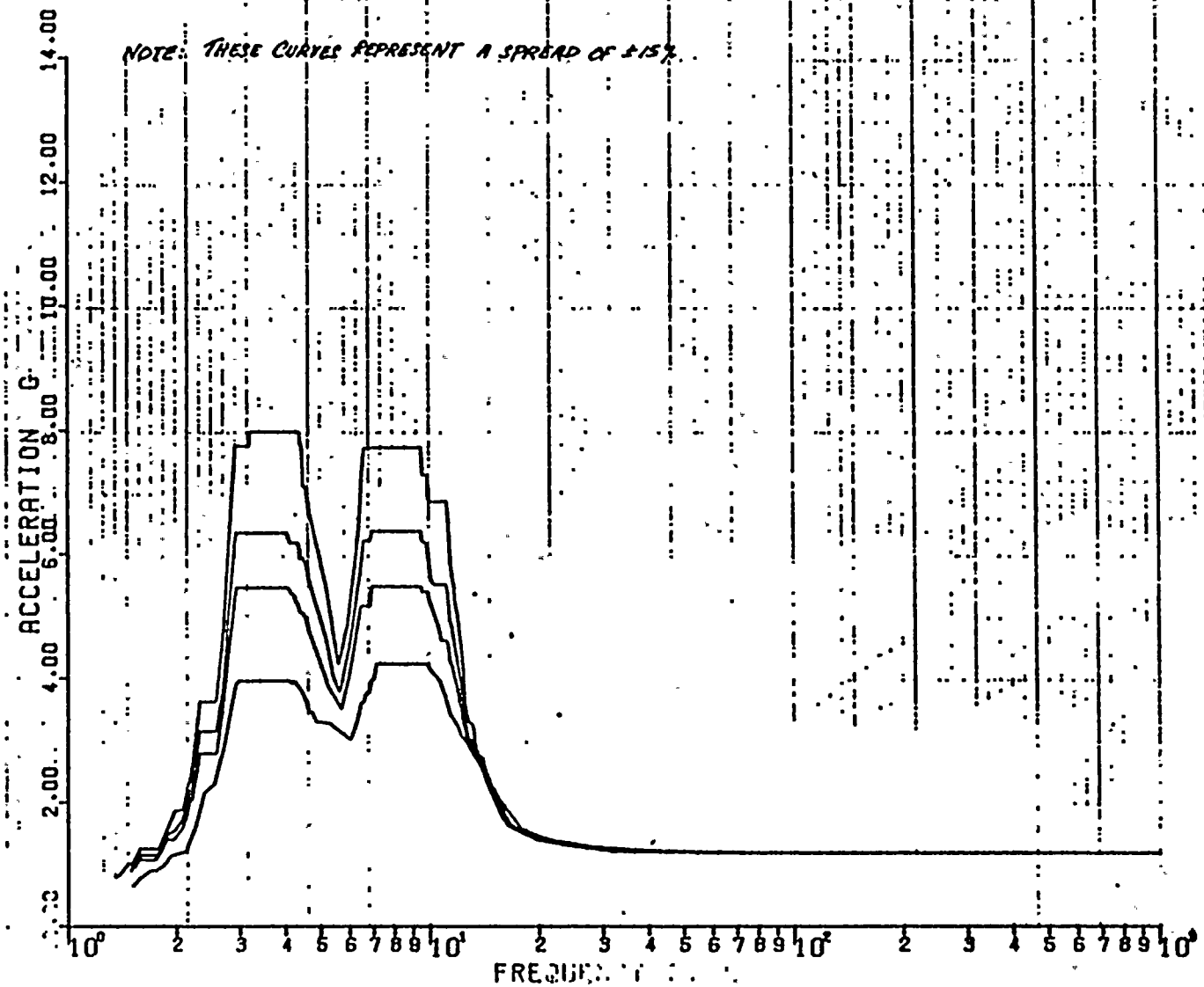
NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177 MS-1765-0

RRS OF ACC. SECONDARY CONT. (ELEV. 416.83 FT.)

MS1765

DISK CURVE SET NO.1 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



REF 89

PGPECTRA VER 01 LEV 08 SEISMIC (SSE) 27 DEC 1982

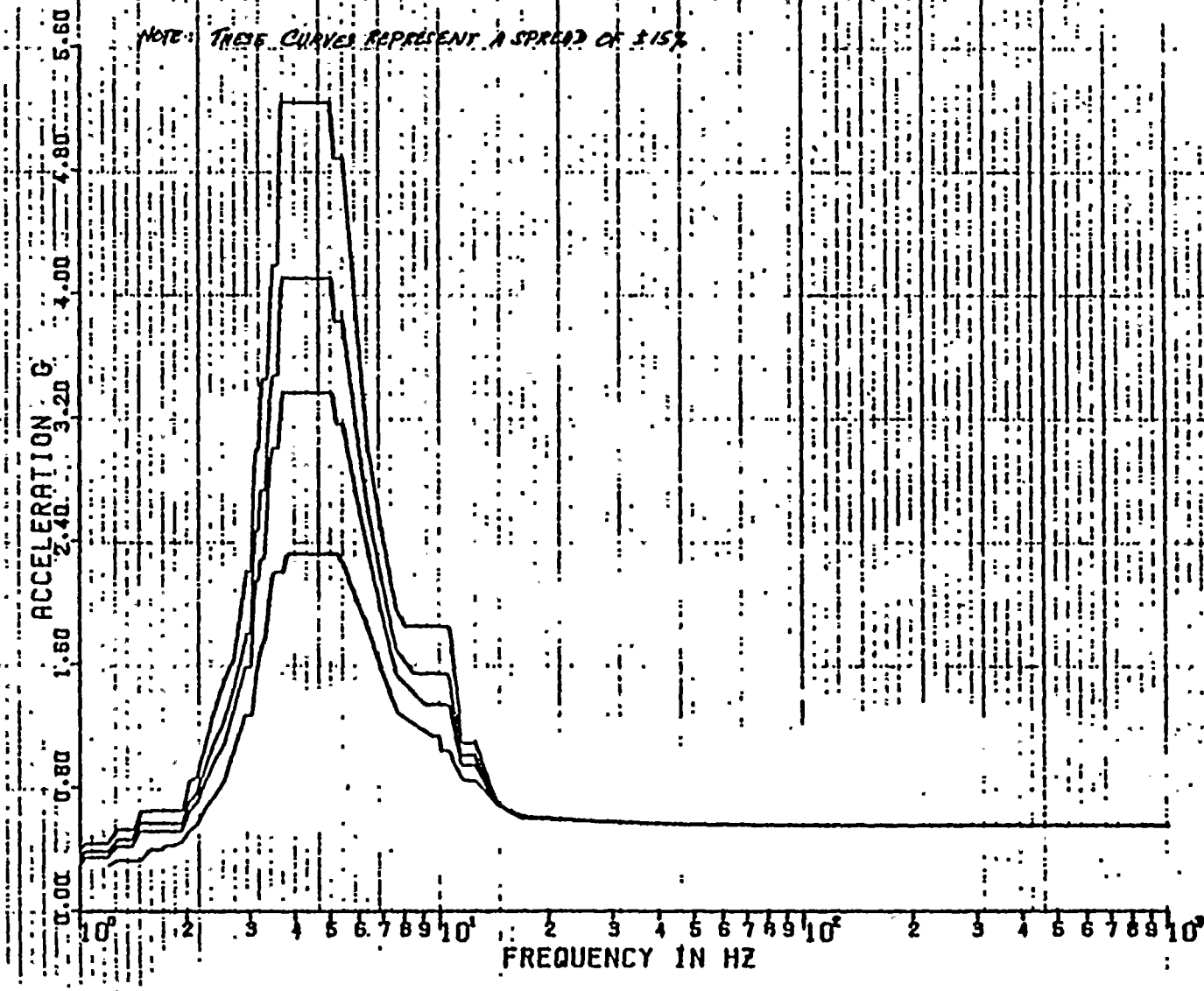
NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177 MS-1765-0

RRS OF ACC. SECONDARY CONT. (ELEV. 416.83 FT.)

MS1765

DISK CURVE SET NO.1 VER DIRECTION DAMPING VALUES : 0.020
0.030
0.040
0.070

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



REF 89

61

PSPECTRA VER 01 LEV 08 SEISMIC C

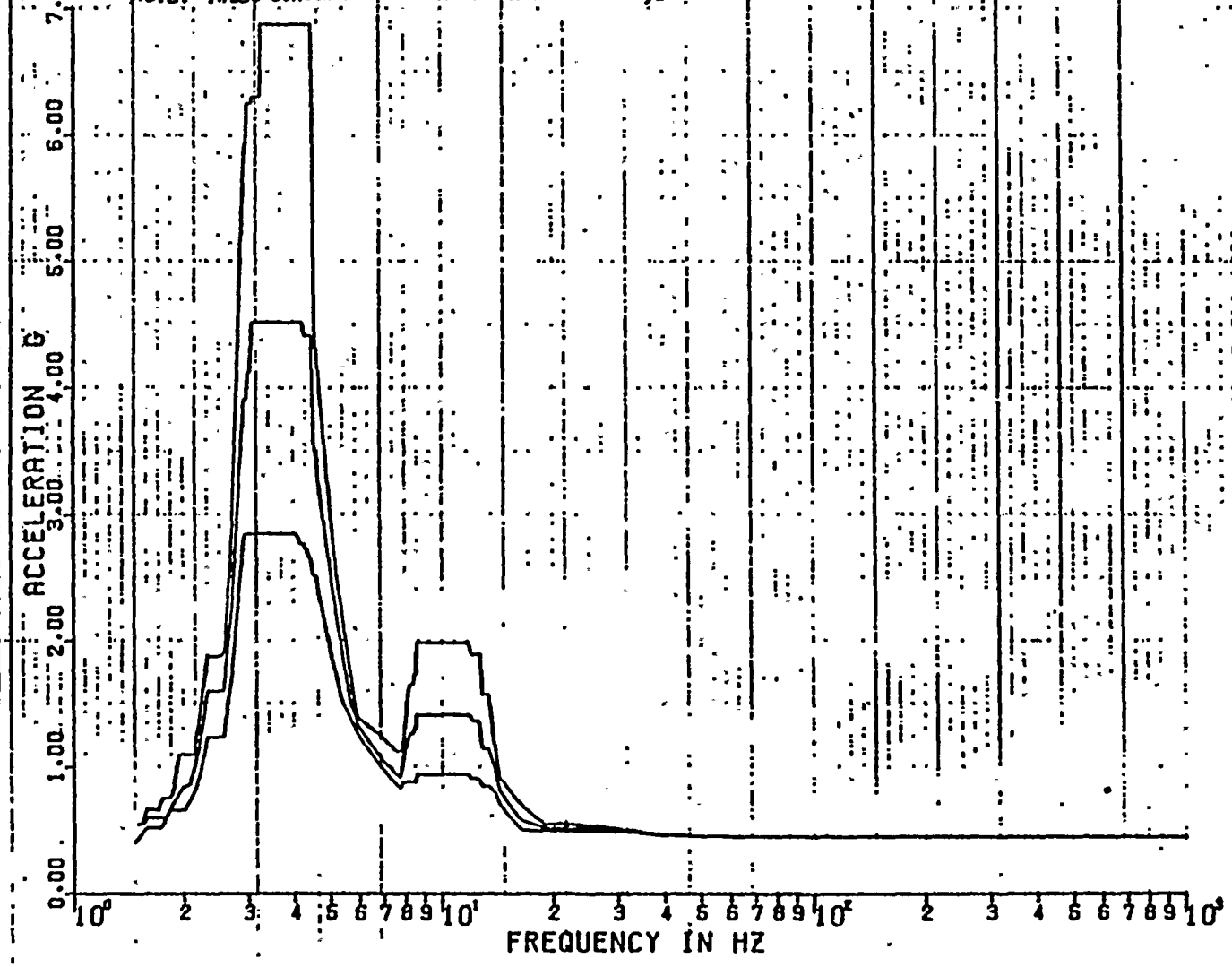
27 DEC 1982

MS1765

NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177 MS-1765-0
RRS OF ACC. SECONDARY CONT. (ELEV. 386.89 FT).

DISK CURVE SET NO.2 HOR DIRECTION DAMPING VALUES 0.010
0.020
0.040

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%.



REF 90

PSPECTRA VER 01 LEV 08 SEISMIC COD

27 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177 MS-1765-0
RRS OF ACC. SECONDARY CONT. (ELEV. 388.83 FT)

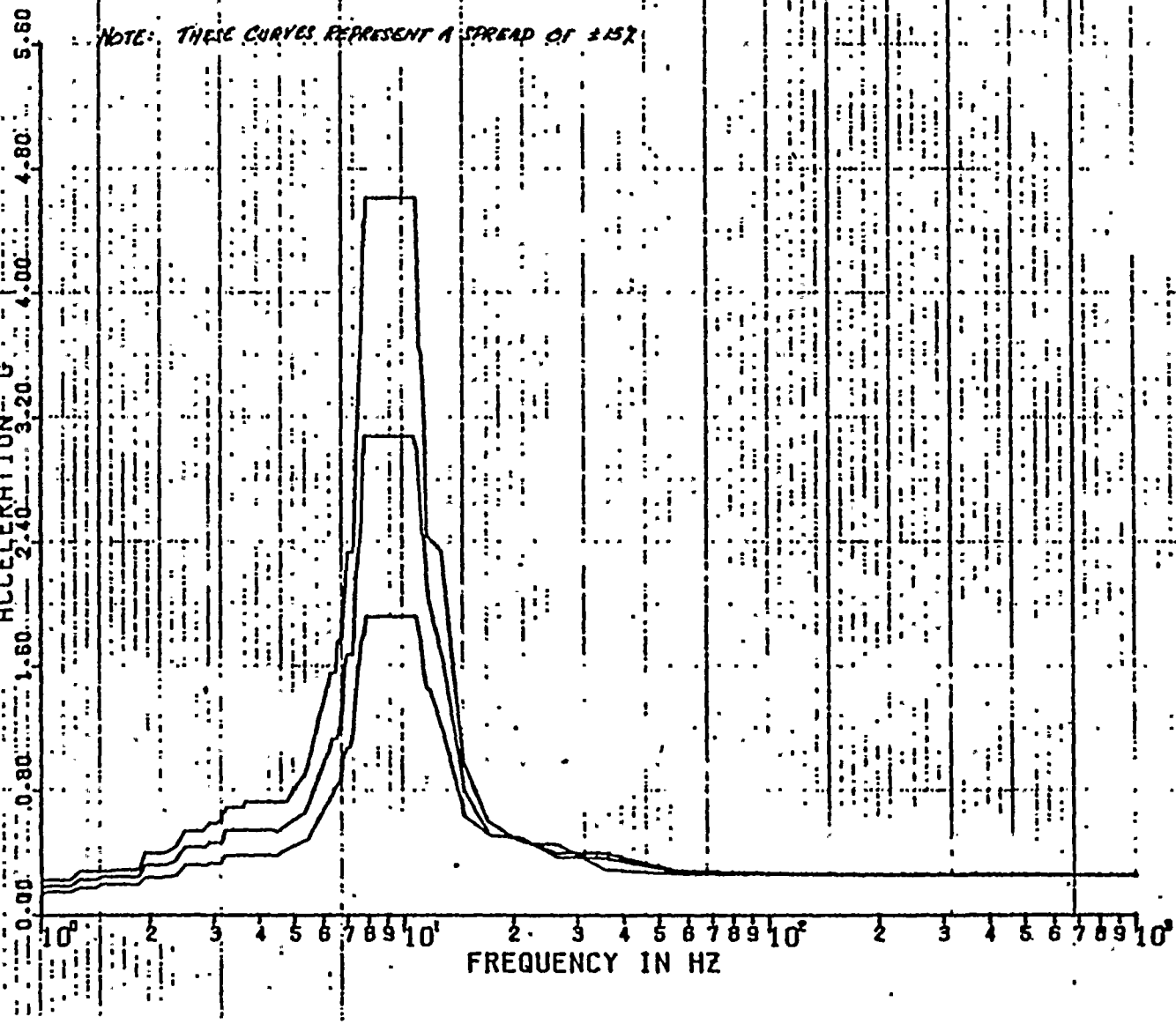
MS1765

DISK CURVE SET NO.2

VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



62

137

PGPECTRA VER 01 LEV 08 (SSG) 27 DEC 1982

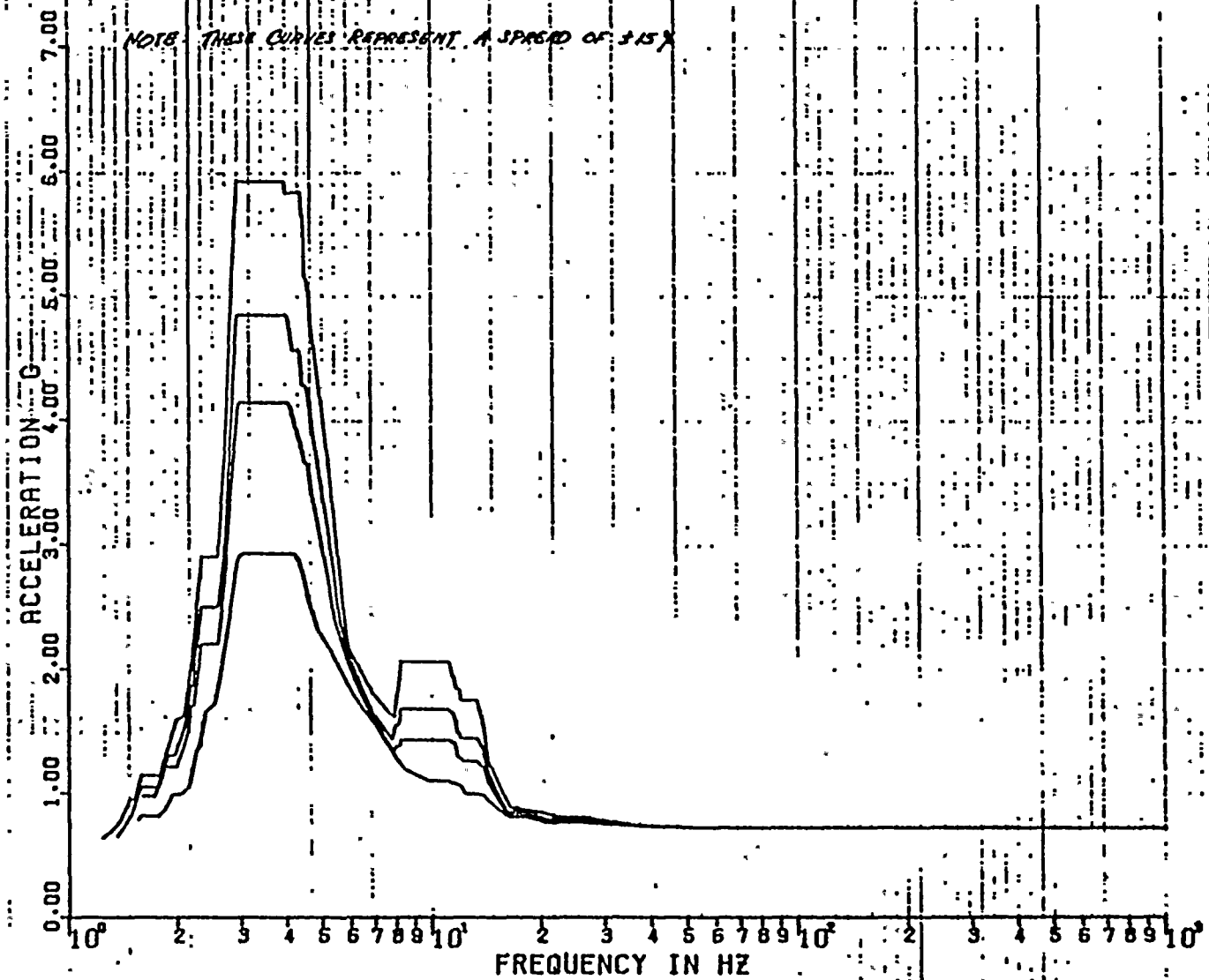
NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177 MS-1765-D

RRS OF ACC. SECONDARY CONT. (ELEV. 386.89 FT)

MS1765

DISK CURVE SET NO.2 HOR DIRECTION DAMPING VALUES : 0.020 0.030 0.040 0.070

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



REF 90

PSPECTRA VER 01 LEV 08 SEISMIC 27 DEC 1982

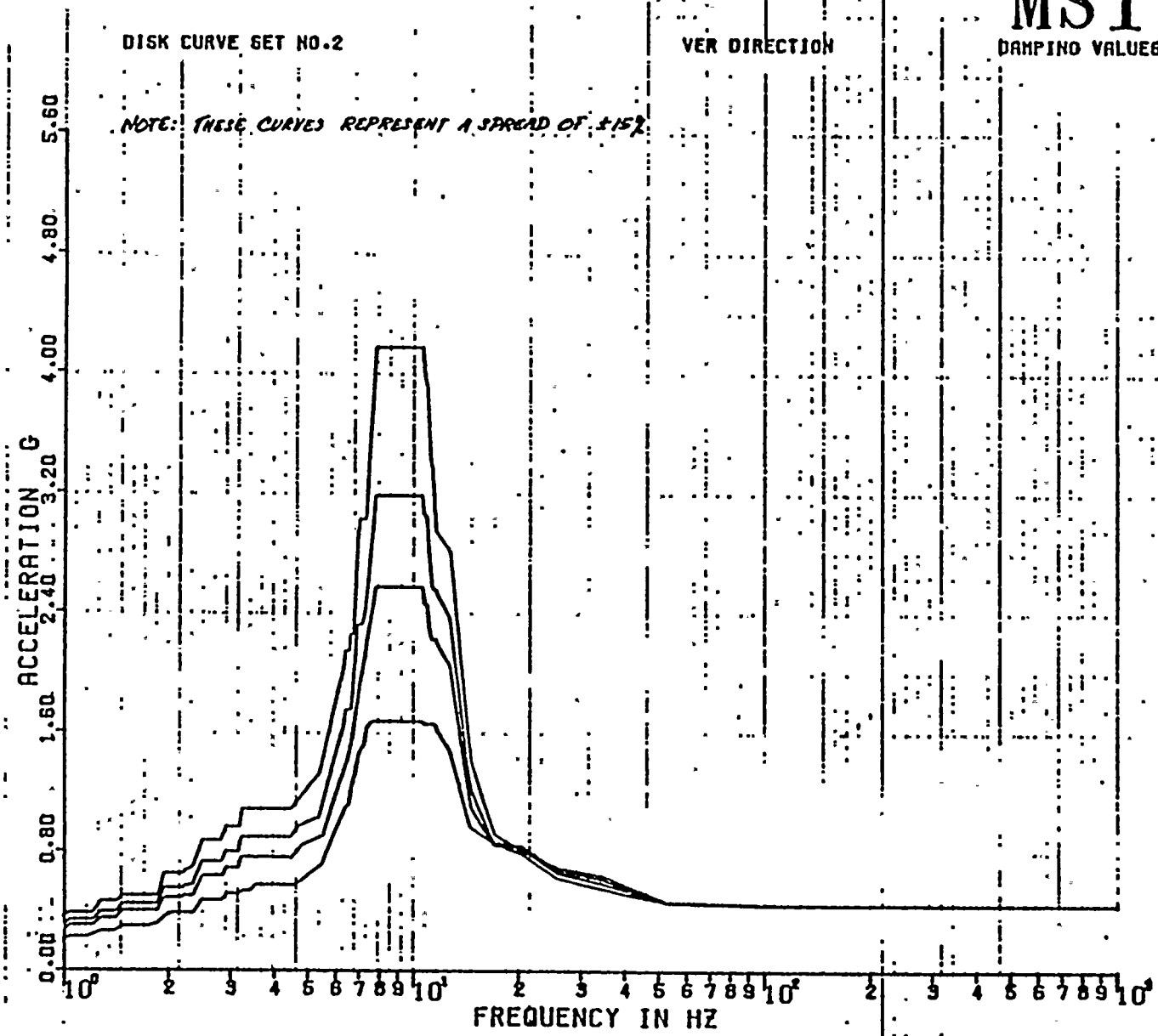
NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177 MS-1765-0

RRS OF ACC. SECONDARY CONT. (ELEV. 986.83 FT)

MS1765

DISK CURVE SET NO.2 VER DIRECTION DAMPING VALUES = 0.020 0.030 0.040 0.070

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



REF. 90

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 27 DEC 1982

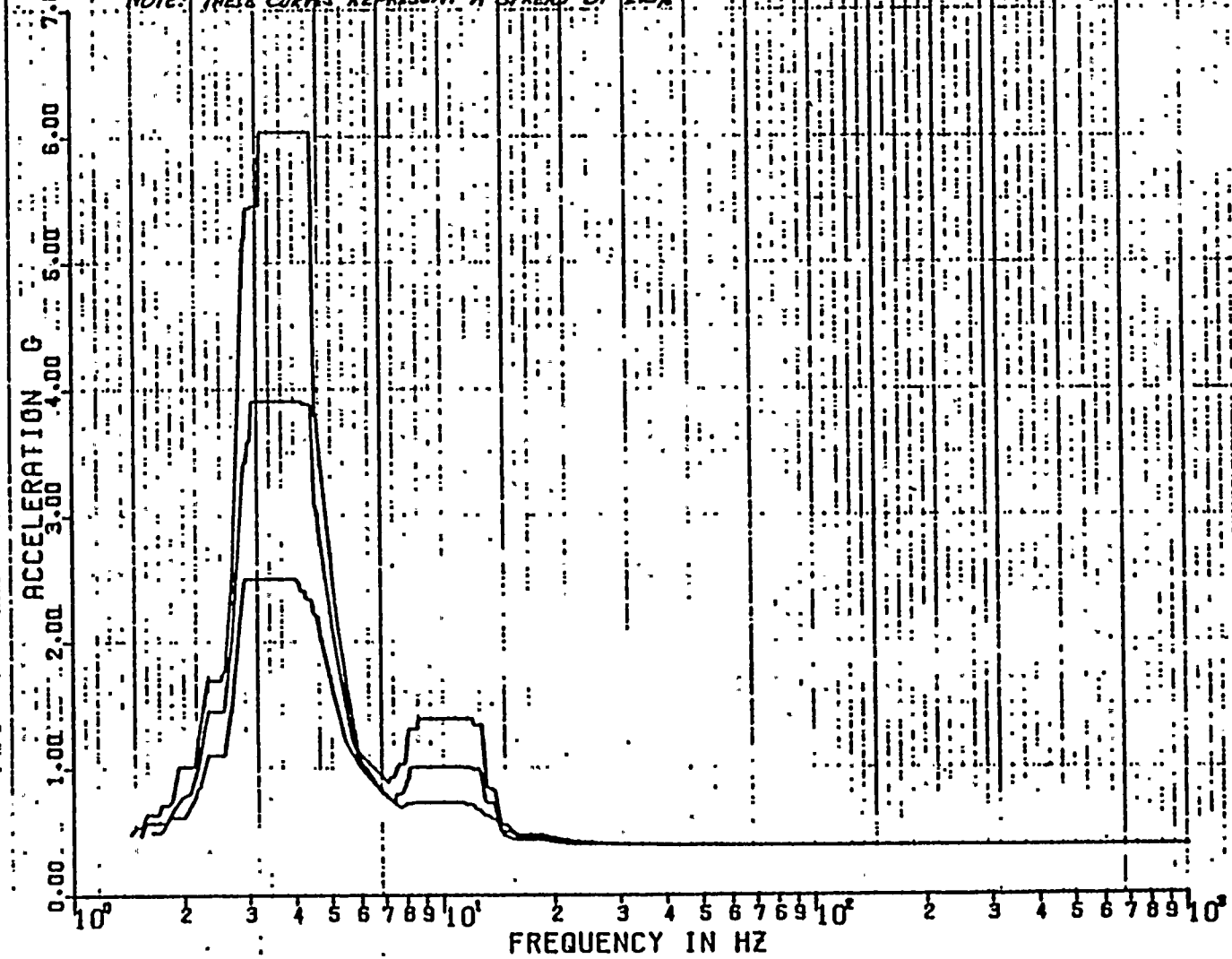
NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177 MS-1765-0

RRS OF ACC. SECONDARY CONT. (ELEV. 369.89 FT)

MS1765

DISK CURVE SET NO.3 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



Ref. 91

PSPECTRA VER 01 LEV 08 SEISMIC C&

27 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177 MS-1765-0

RRS OF ACC. SECONDARY CONT. (ELEV. 369.89 FT)

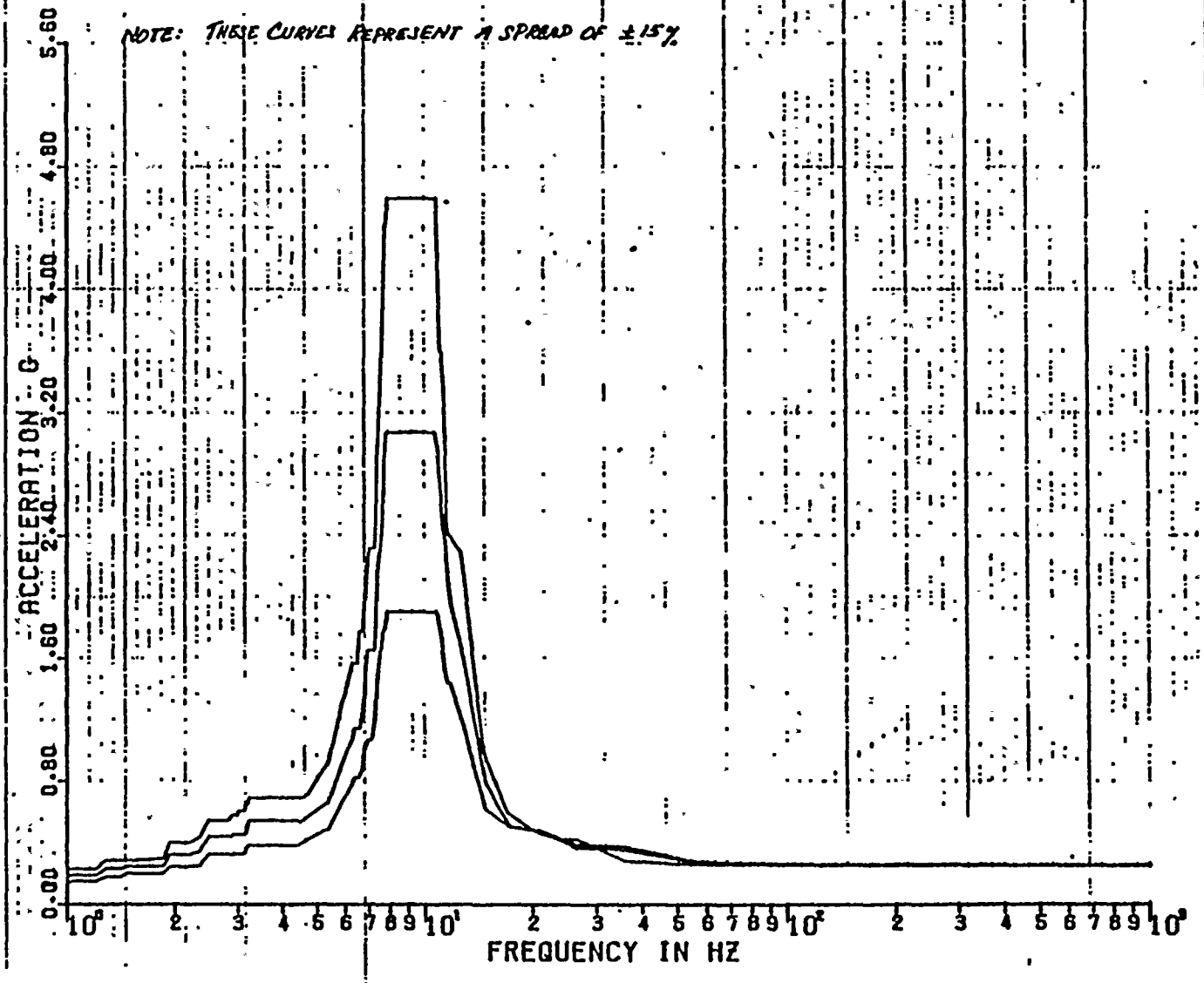
MS1765

DISK CURVE SET NO.3

VER DIRECTION

DAMPING VALUES 0.010
0.020
0.040

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



64

REF 91

128

PSPECTRA VER 01 LEV 08 SEISMIC (.5G) 27 DEC 1982

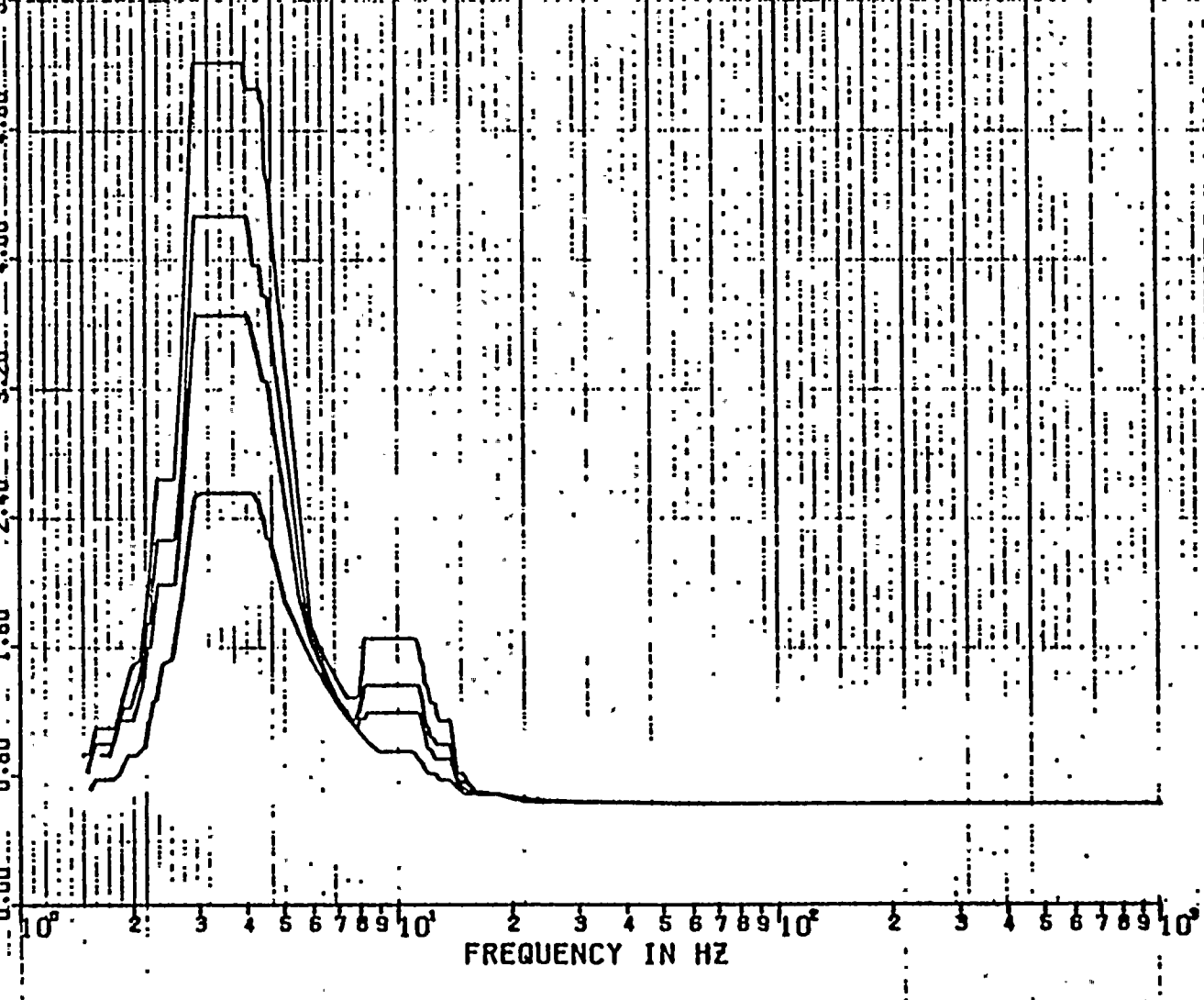
NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177 MS-1765-0

ARS OF ACC. SECONDARY CONT. (ELEV. 353.03 FT)

MS1765

DISK CURVE SET NO.3 HOR DIRECTION DAMPING VALUES F: 0.020 0.030 0.040 0.070

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



91

129

PGPECTRA VER 01 LEV 08 SEISMIC (2.5) 27 DEC 1982

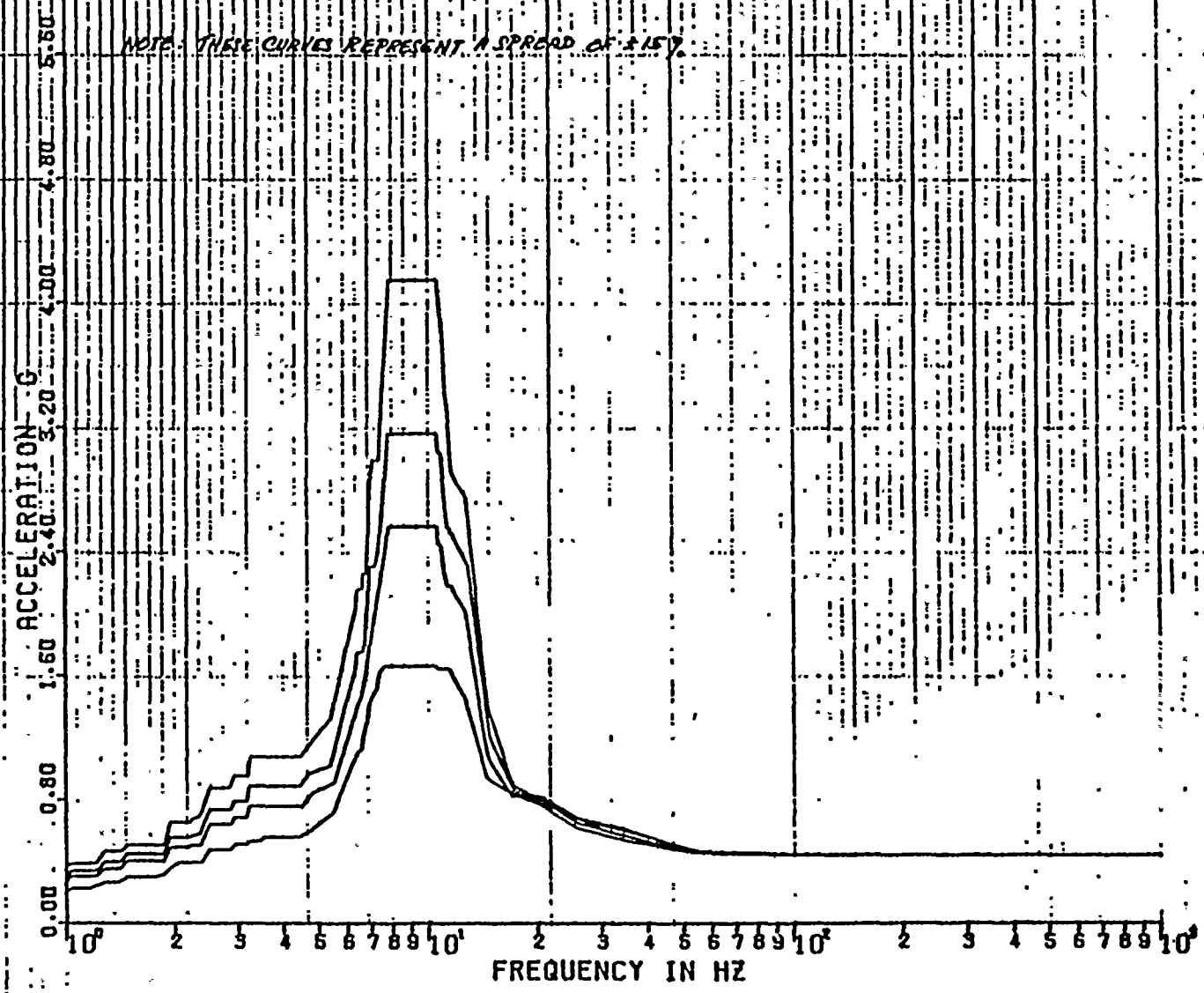
NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177 MS-1765-0

RRS OF ACC. SECONDARY CONT. (ELEV. 369.03 FT)

MS1765

DISK CURVE SET NO.5 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



129

PSPECTRA VER 01 LEV 08 SEISMIC COUP 27 DEC 1982

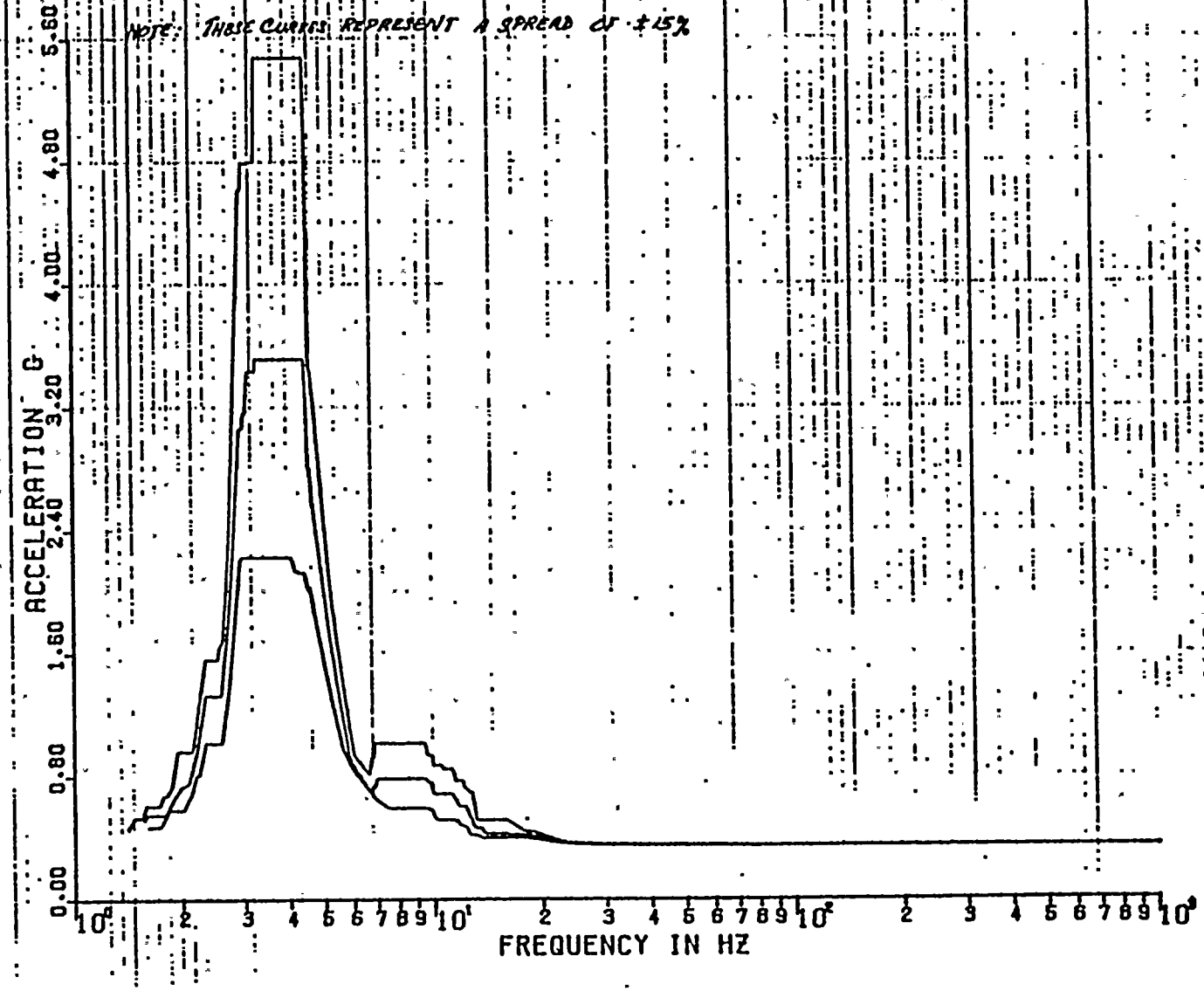
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1765-0

RRS OF ACC. SECONDARY CONT. (ELEV. 328.89 FT)

MS1765

DISK CURVE SET NO.4 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



PSPECTRA VER 01 LEV 08 SEISMIC

27 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1765-0
RRS OF ACC. SECONDARY CONT. (ELEV. 328.69 FT)

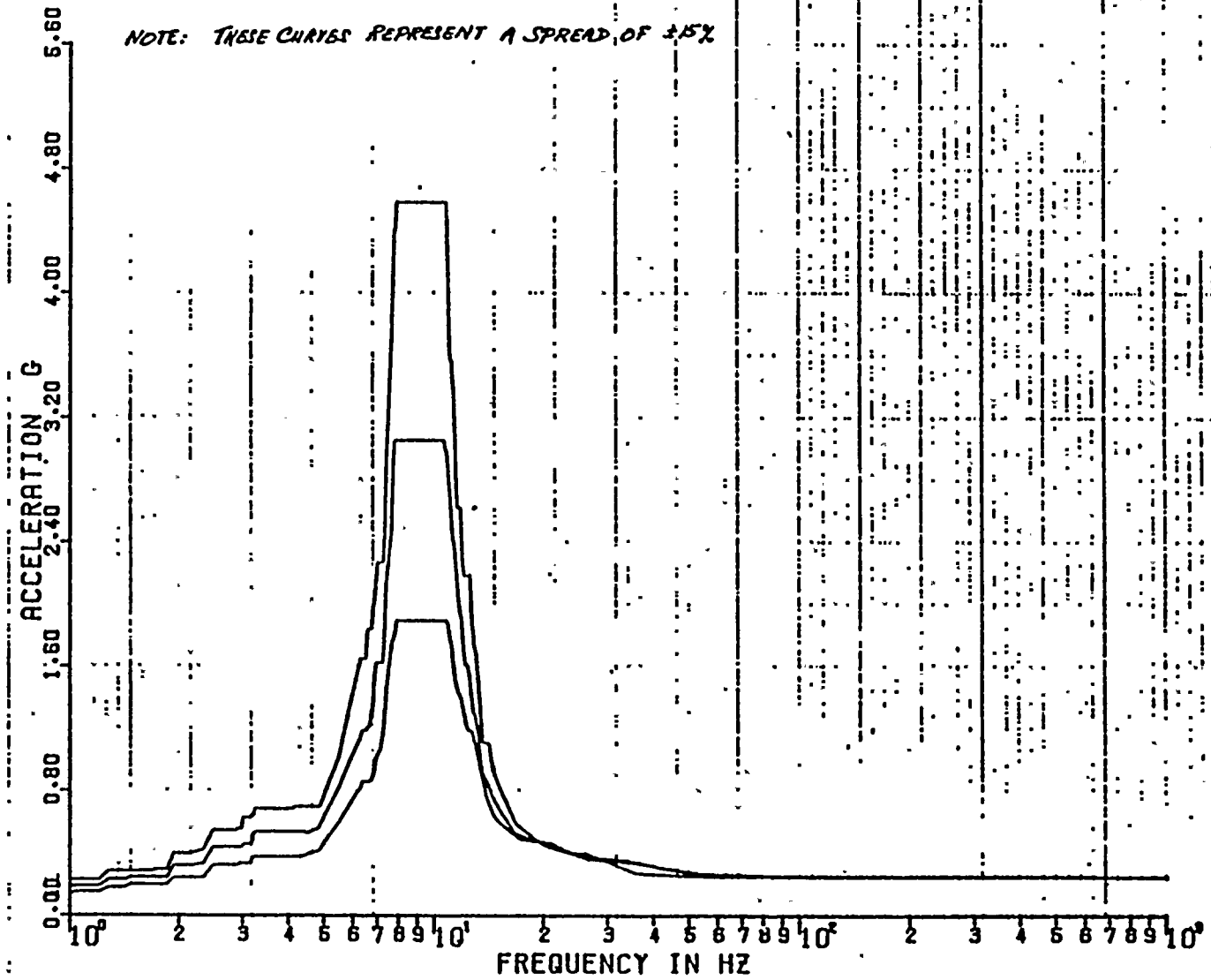
MS1765

DISK CURVE SET NO.4

VER DIRECTION

DAMPING VALUES - 0.010
0.020
0.040

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



66

REF 92

PGPECTRA VER 01 LEV 08 SEISMIC 27 DEC 1982

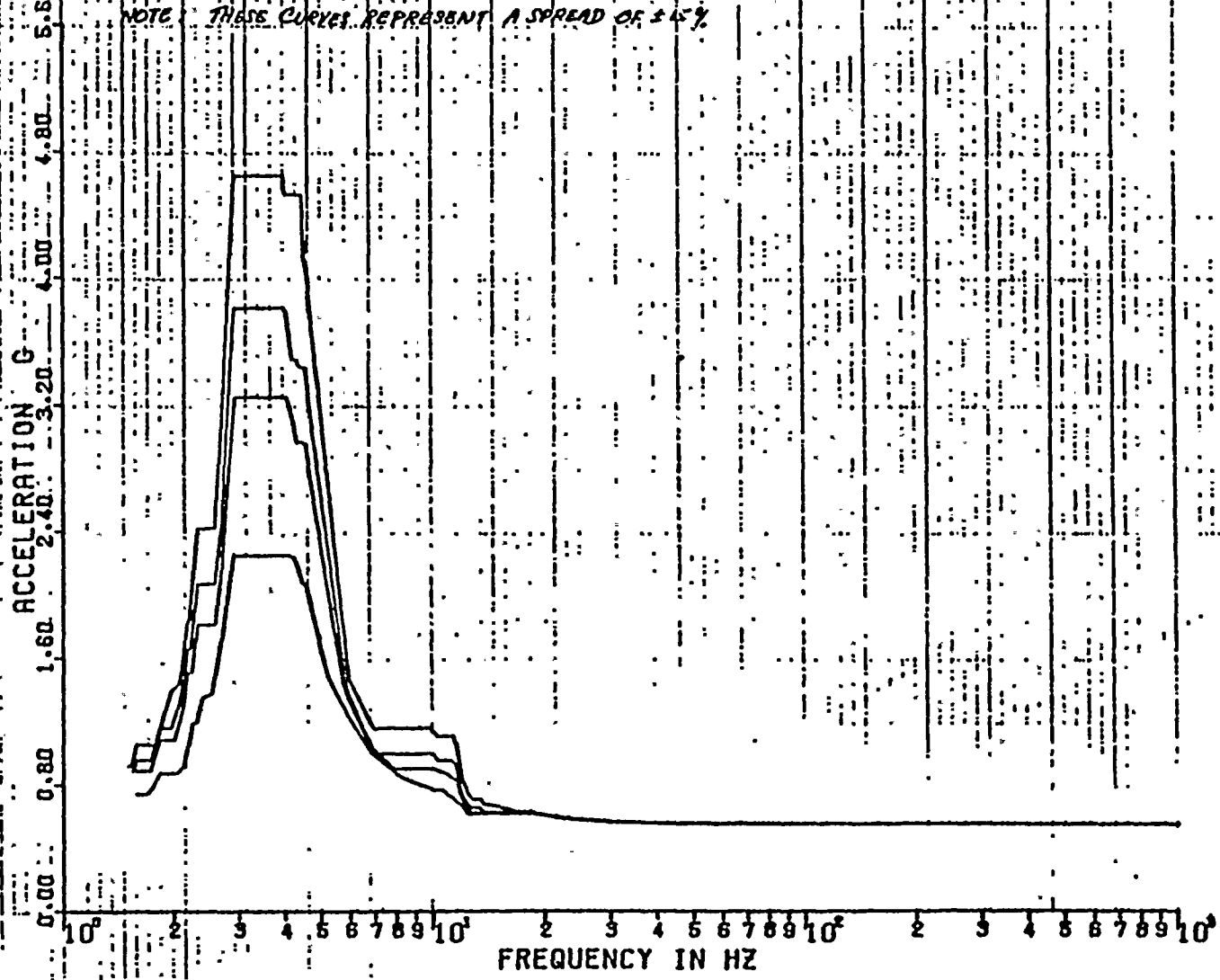
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1765-0

RRS OF ACC. SECONDARY CONT. (ELEV. 328.83 FT)

MS1765

DISK CURVE SET NO.4 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: THESE CURVES REPRESENT A SPREAD OF ± 15%



REF 92

PSPECTRA VER 01 LEV 08 SEISMIC (CONT)

27 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1765-0

RRS OF ACC. SECONDARY CONT. (ELEV. 328.83 FT)

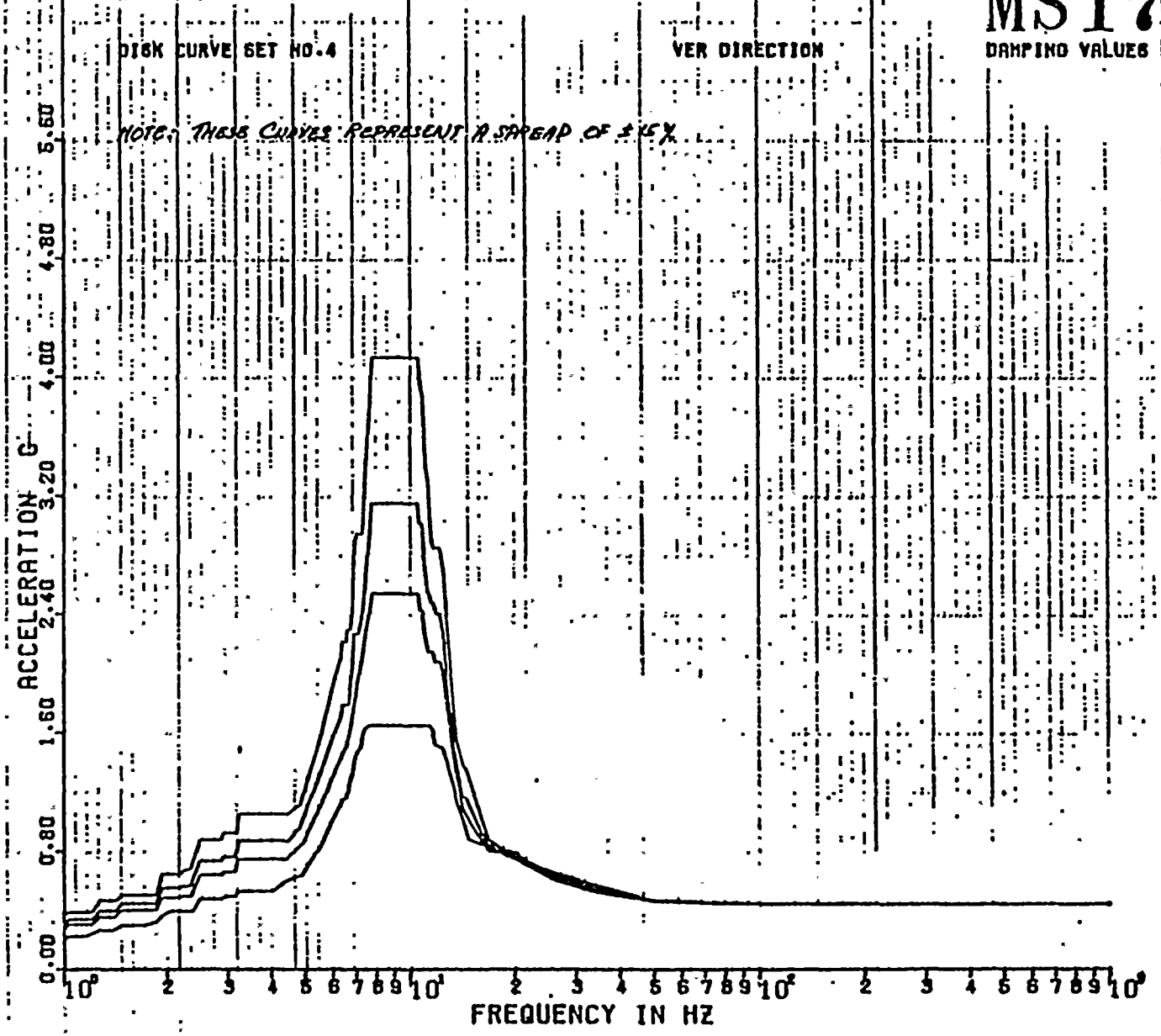
MS1765

DISK CURVE SET NO.4

VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: THESE CURVES REPRESENT A SPREAD OF ± 15%



REF. 92

67

PSPECTRA VER 01 LEV 08 SEISMIC COND. 27 DEC 1982

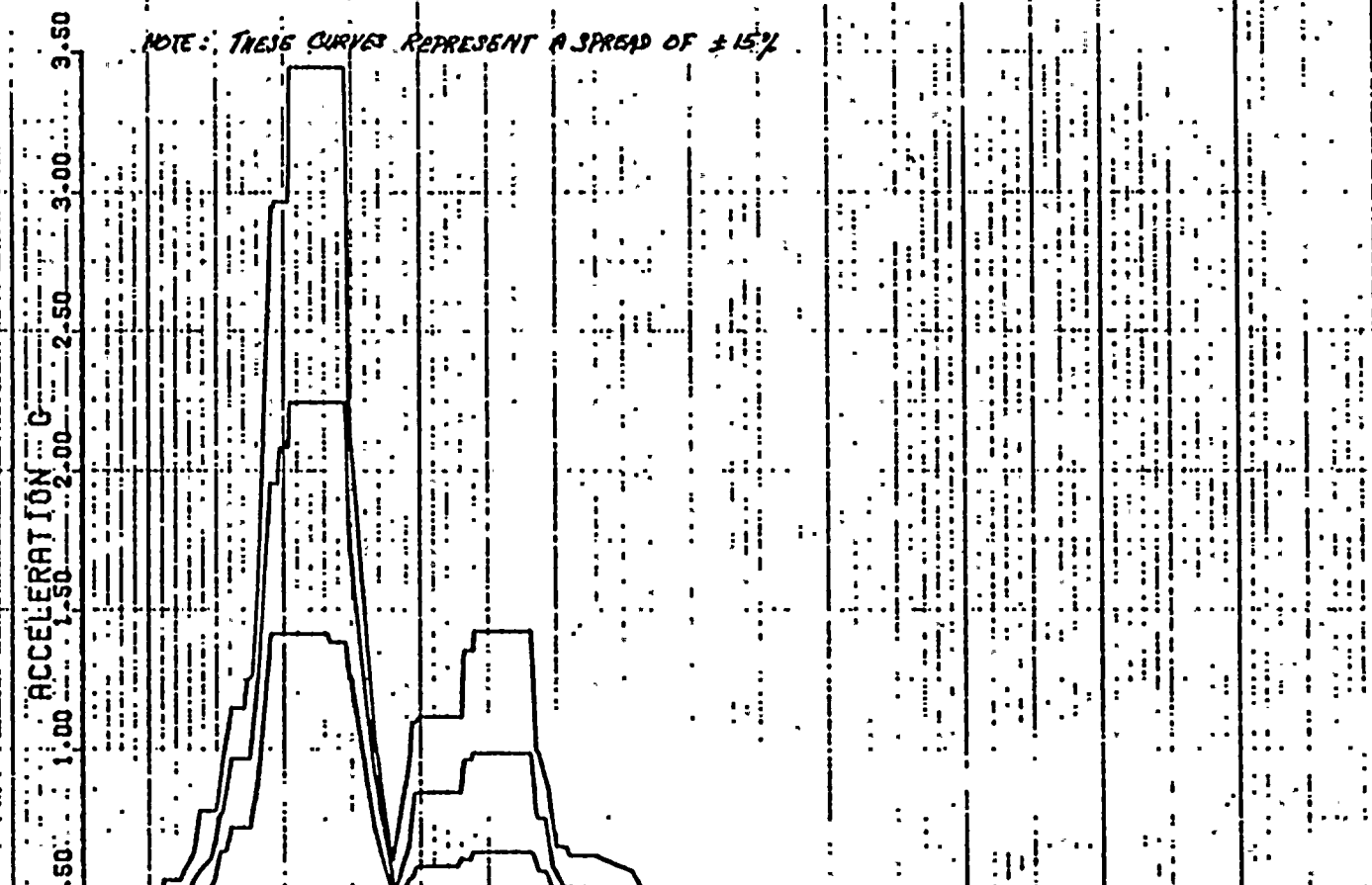
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1765-0

RRS OF ACC. SECONDARY CONT. (ELEV. 288.0 FT)

MS1765

DISK CURVE SET NO.6 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: THESE CURVES REPRESENT A SPREAD OF ± 15%



REF 93

132

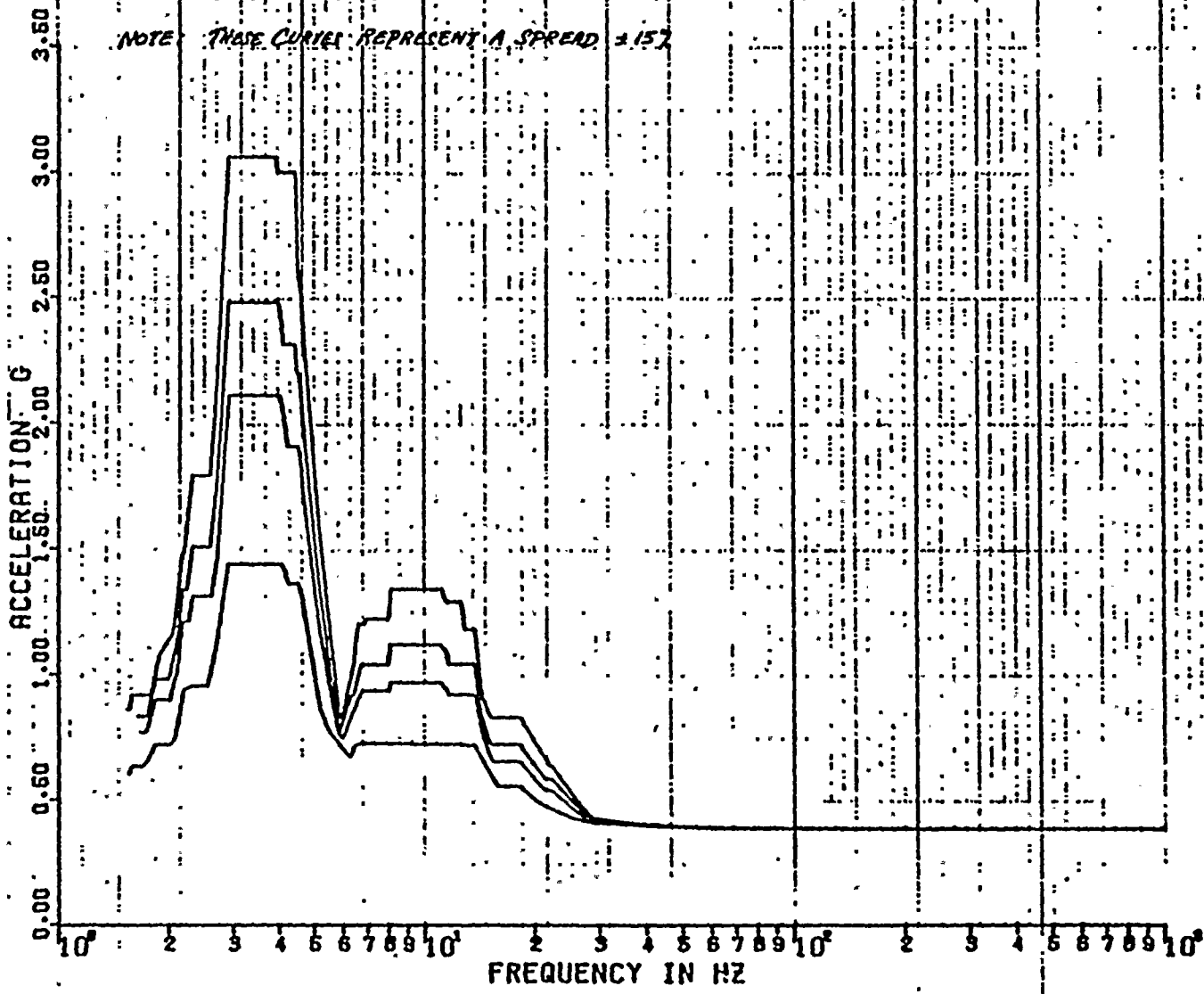
PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 27 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1765-0
RRS OF ACC. SECONDARY CONT. (ELEV. 289.0 FT).

MS1765

DIGK CURVE SET NO.5 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: THESE CURVES REPRESENT A SPREAD ±15%



REF

93

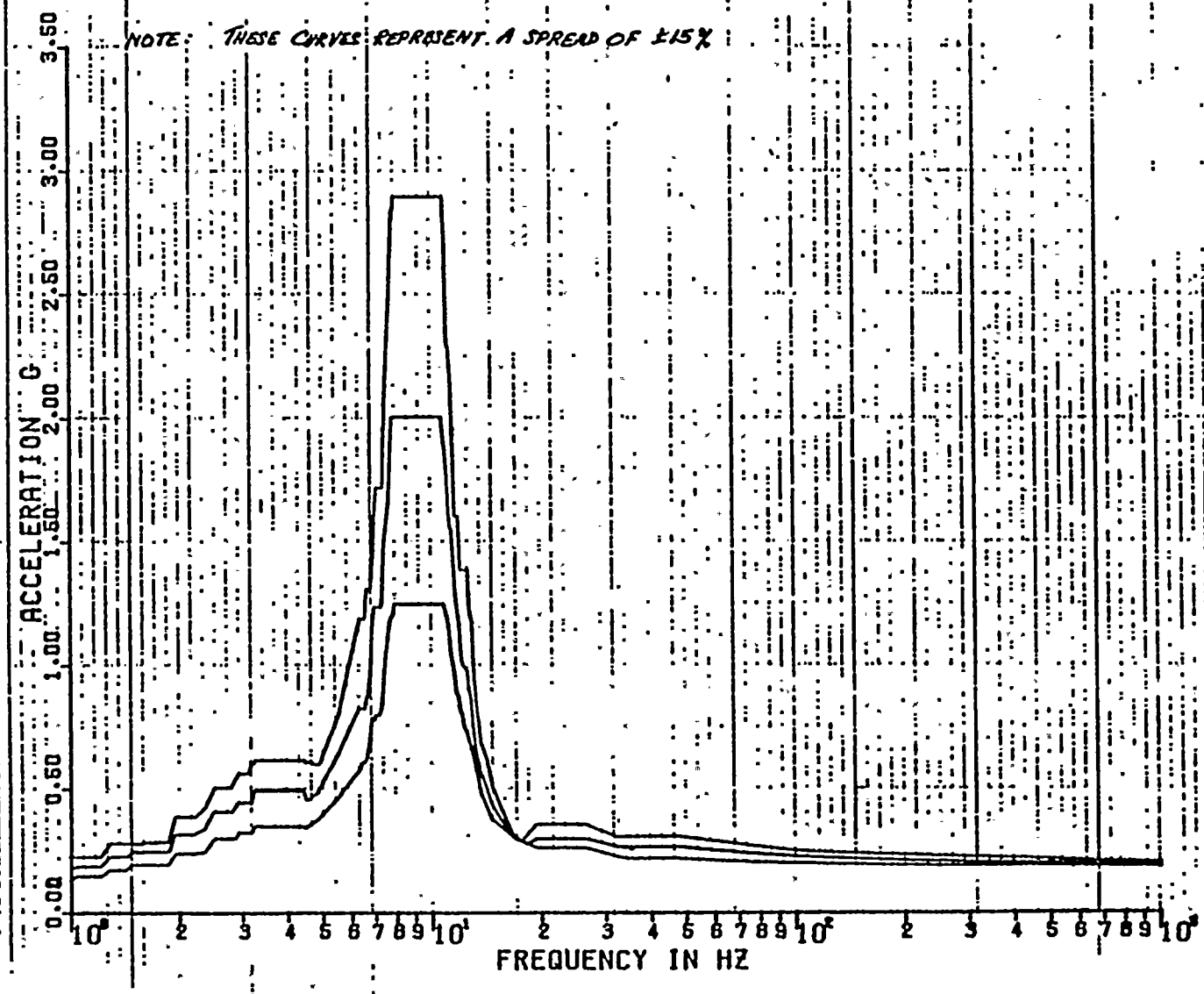
PSPECTRA VER 01 LEV 08 SEISMIC (LE) 27 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1765-0
RRS OF ACC. SECONDARY CONT. (ELEV. 289.0 FT)

MS1765

DISK CURVE SET NO.5 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



68

Fig 43

133

PSPECTRA VER 01 LEV 08 SEISMIC USE)

27 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1765-0
RRS OF ACC. SECONDARY CONT. (ELEV. 289.0 FT)

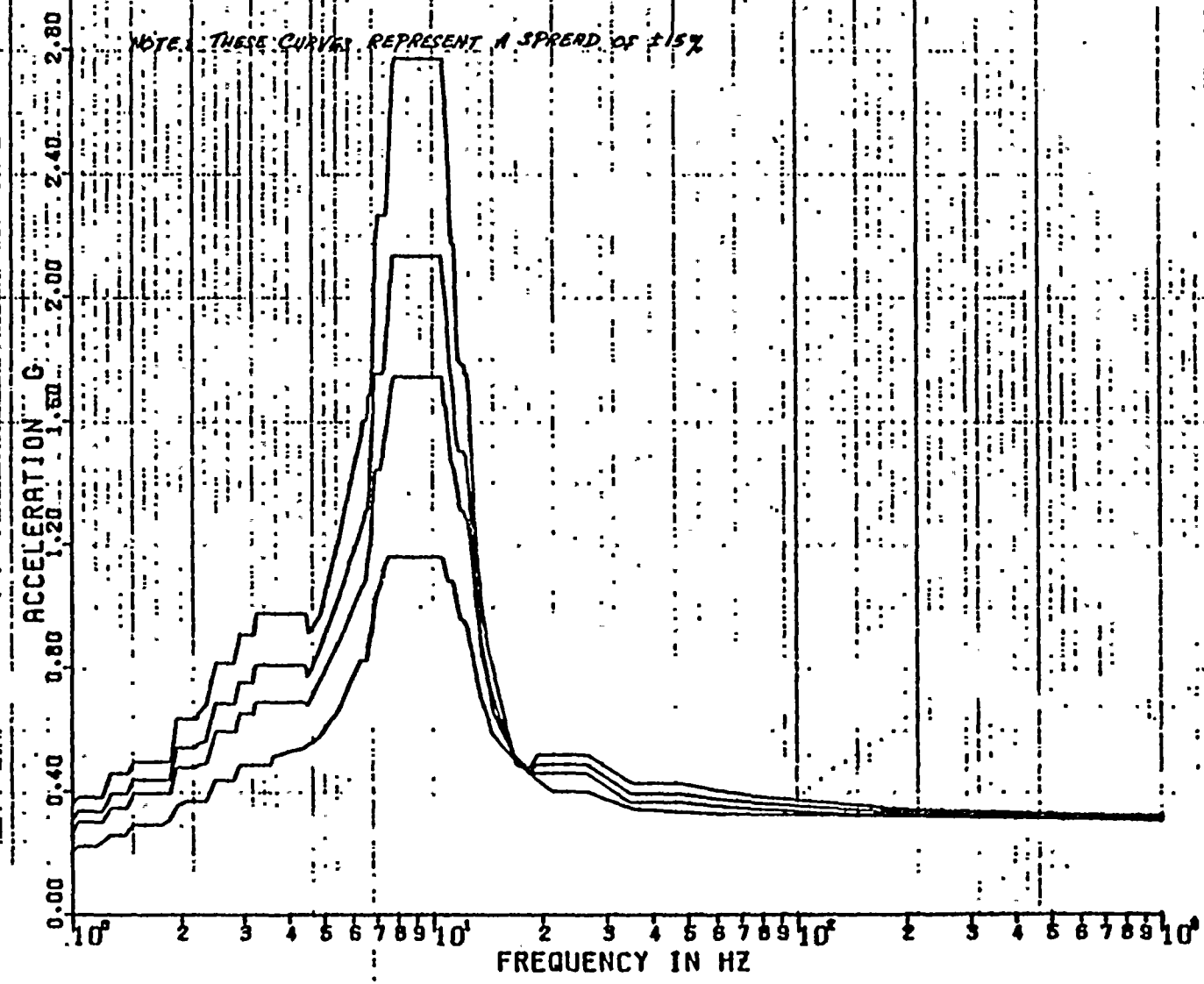
MS1765

DISK CURVE SET NO.5

VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



REF 93

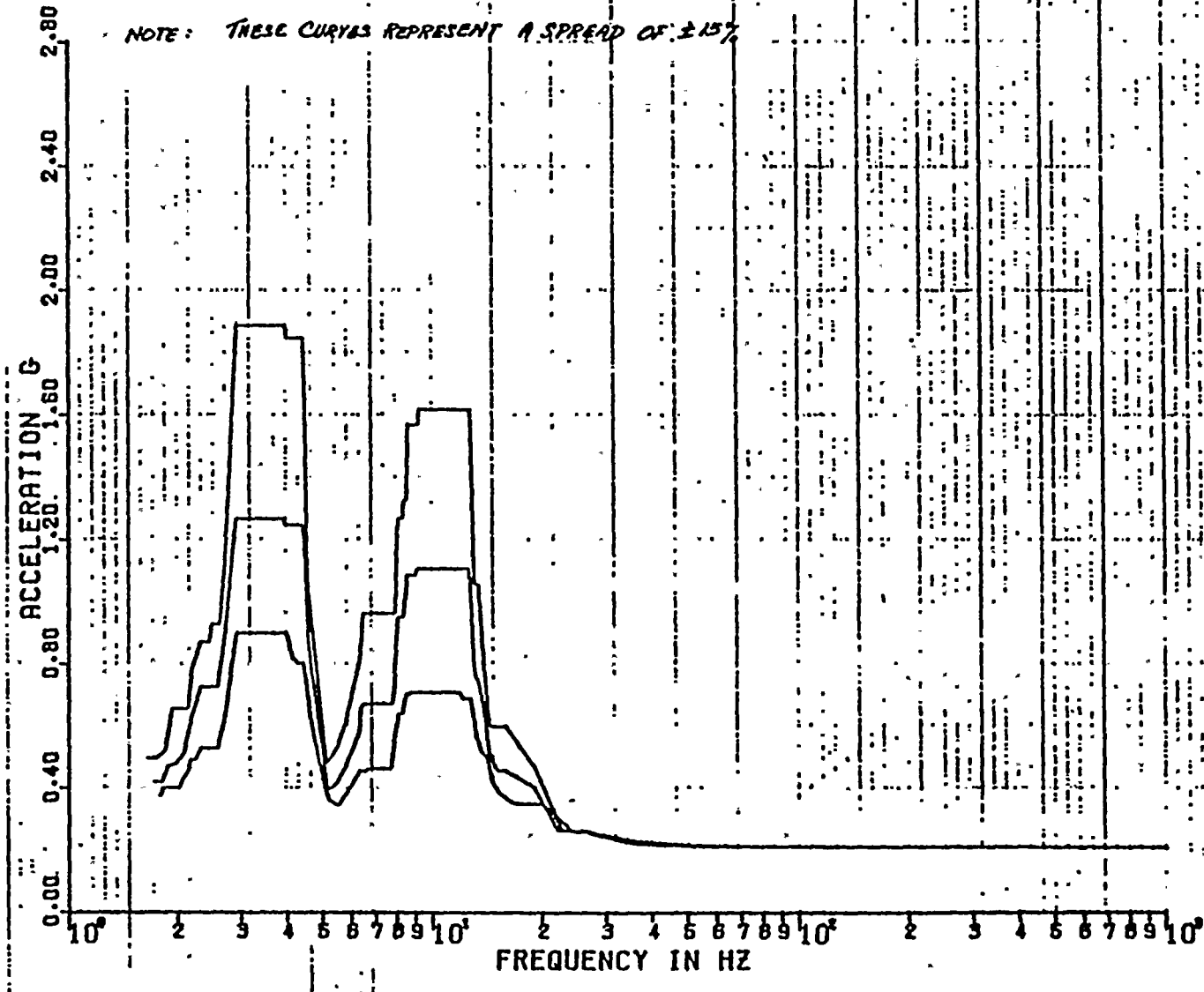
PSPECTRA VER 01 LEV 08 SEISM[illegible]OBE) 27 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1765-0
RRS OF ACC. SECONDARY CONT. (ELEV. 262.0 FT)

MS1765

DISK CURVE SET NO.6 HOR DIRECTION DAMPING VALUES = 0.010
0.020
0.040

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



ZEP 94

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 27 DEC 1982

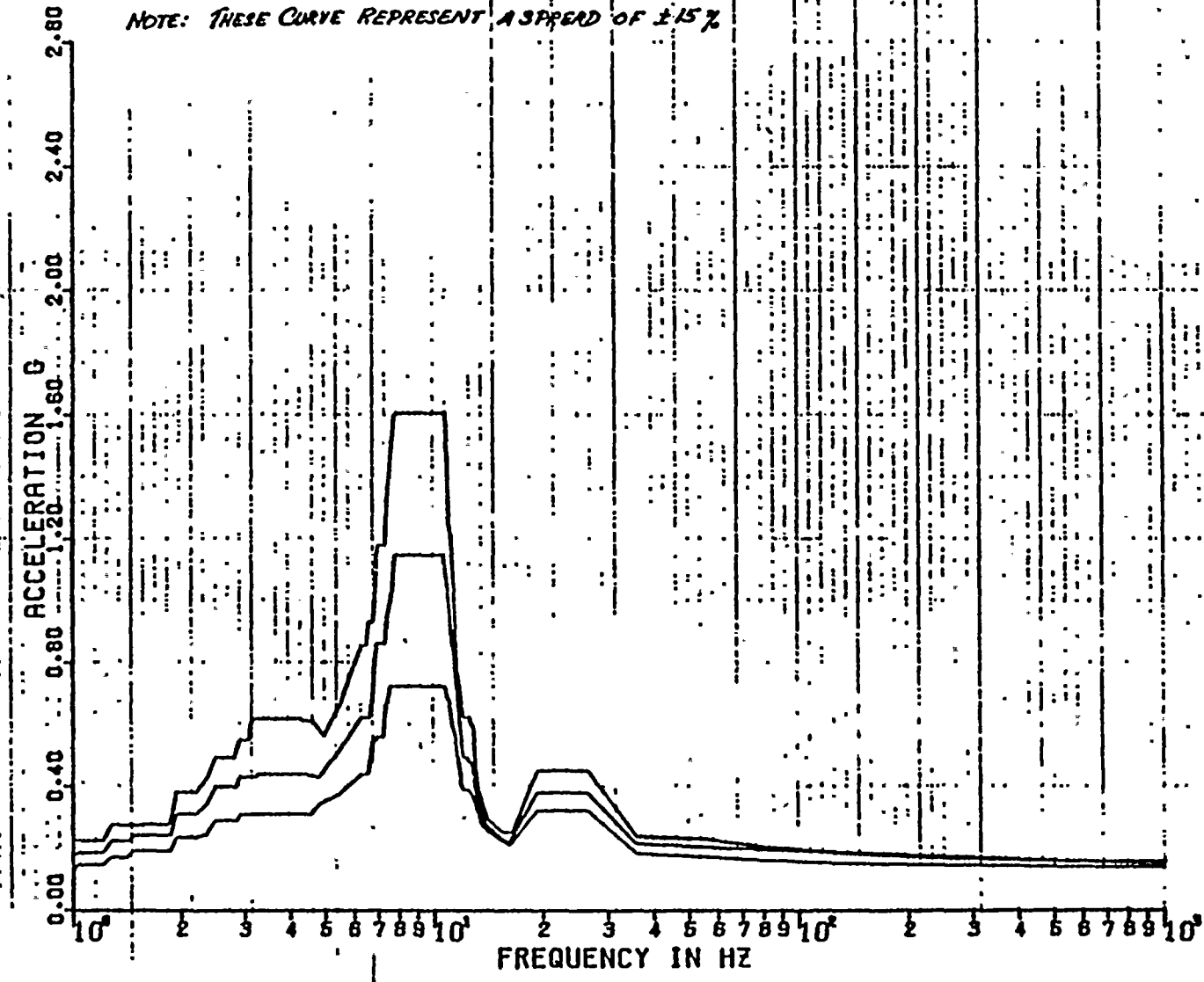
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1765-0

RRS OF ACC. SECONDARY CONT. (ELEV. 262.0 FT)

MS1765

DISK CURVE SET NO.6 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: THESE CURVE REPRESENT A SPREAD OF ±15%



70

REF 94

PSPECTRA VER 01 LEV 08 SEISMIC (LIE) 27 DEC 1982

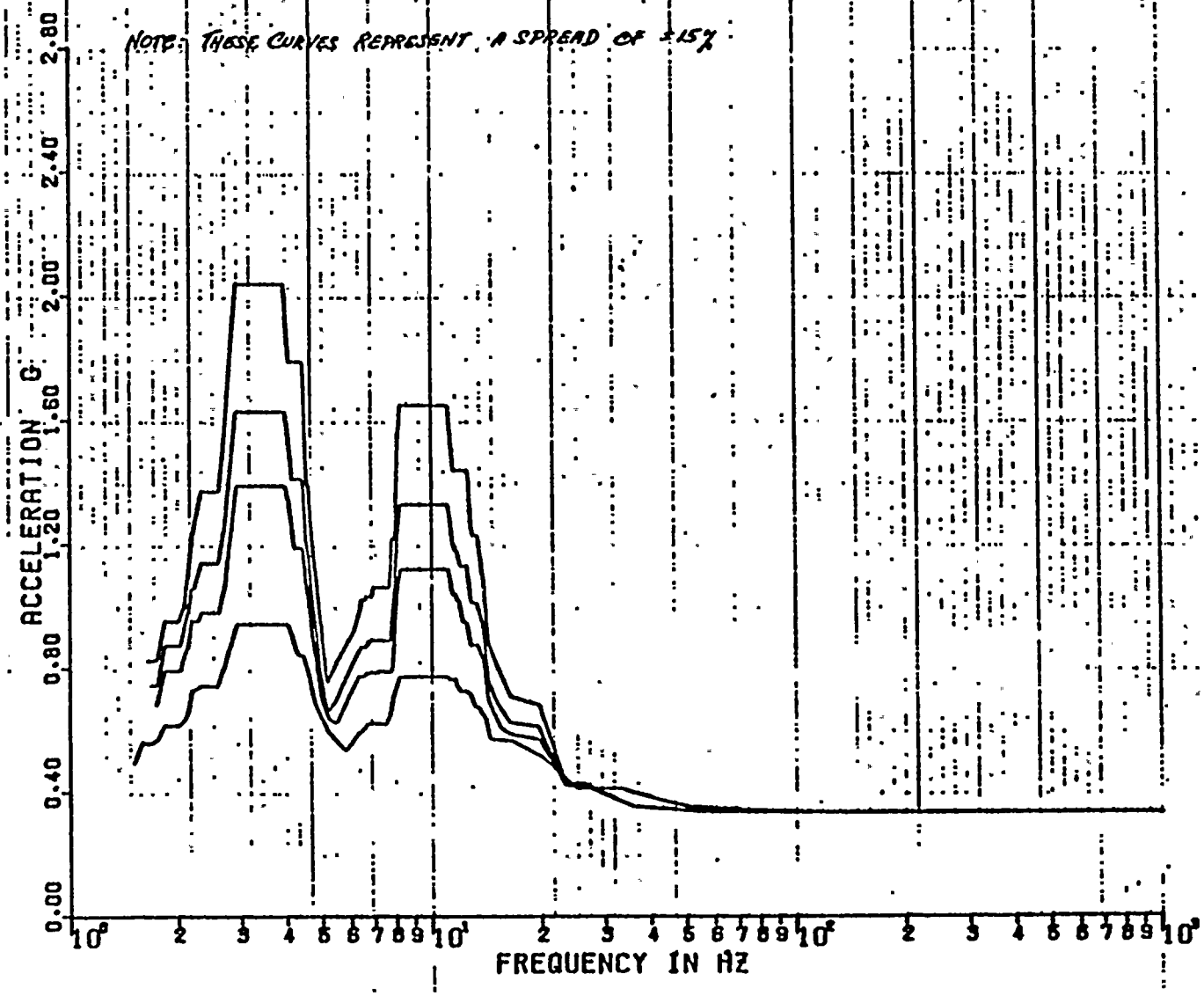
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1765-0

RRS OF ACC. SECONDARY CONT. (ELEV. 262.0 FT)

MS1765

DISK CURVE SET NO.6 HOR DIRECTION DAMPING VALUES = 0.020 0.030 0.040 0.070

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



REF 94

PSPECTRA VER 01 LEV 08 SEISMIC (USE) 27 DEC 1982

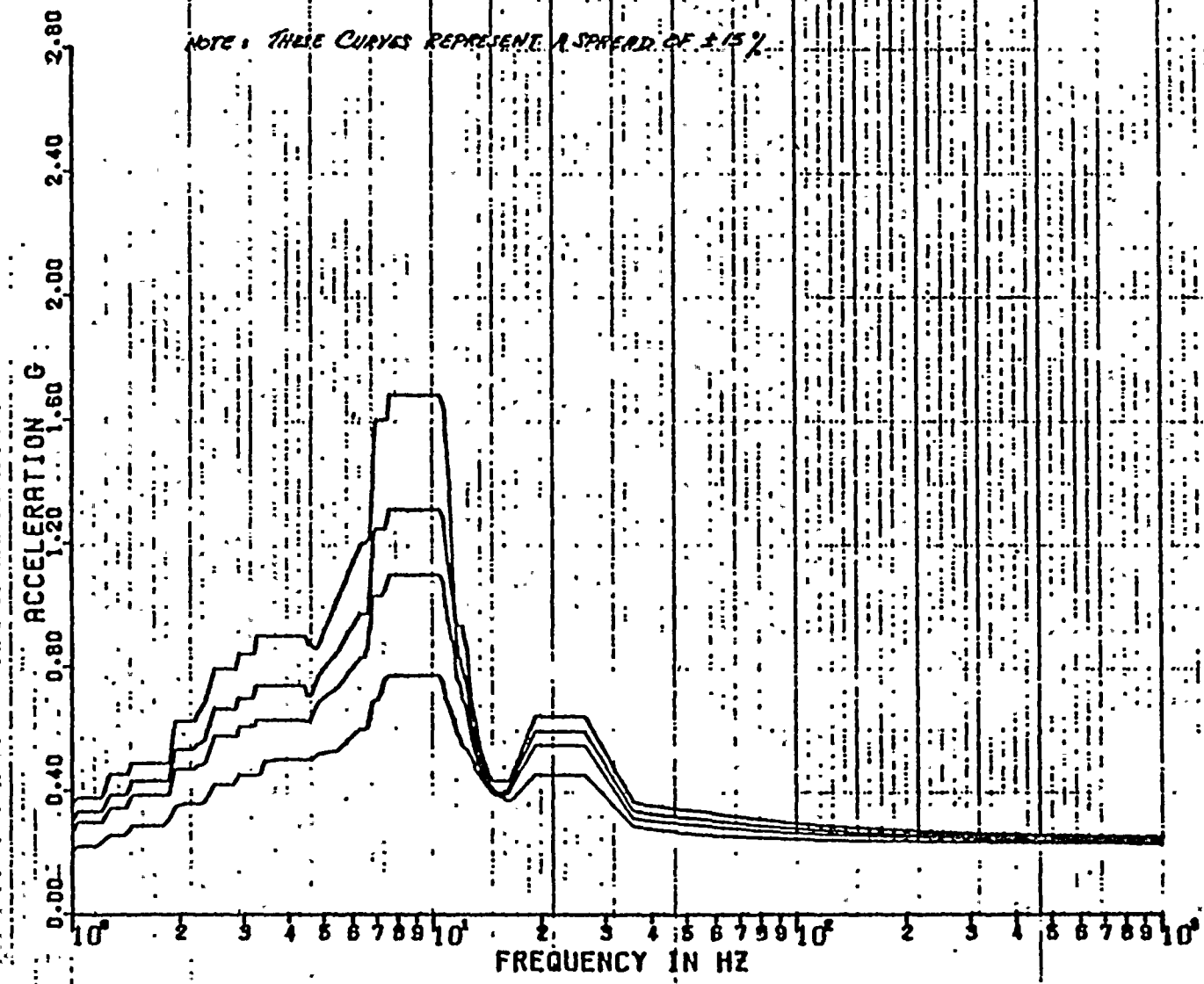
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1765-0

RRS OF ACC. SECONDARY CONT. (ELEV. 262.0 FT)

MS 1765

DISK CURVE SET NO.6 VER DIRECTION DAMPING VALUES = 0.020 0.030 0.040 0.070

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



135

REF 94

PGPECTRA VER 01 LEV 08 SEISMIC (C)

27 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177 MS-1765-0
RRS OF ACC. SECONDARY CONT. (ELEV. 240.0 FT)

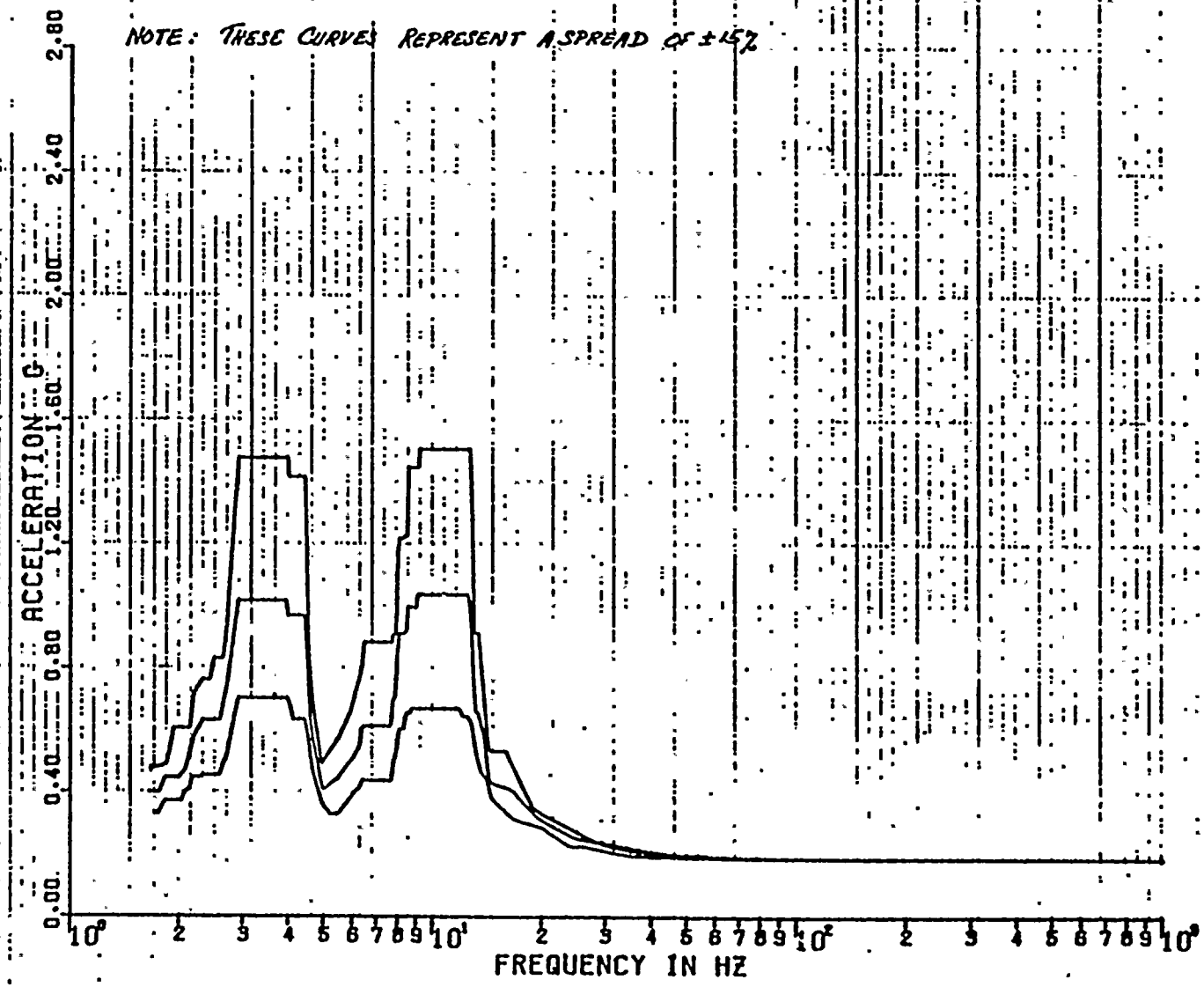
MS1765

DISK CURVE SET NO.7

HOR DIRECTION

DAMPING VALUES : 0.010
0.020
0.040

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



REF 95

72

PSPECTRA VER 01 LEV 08 SEISMIC (OBE)

27 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177 MS-1765-D
RRS OF ACC. SECONDARY CONT. (ELEV. 240.0 FT)

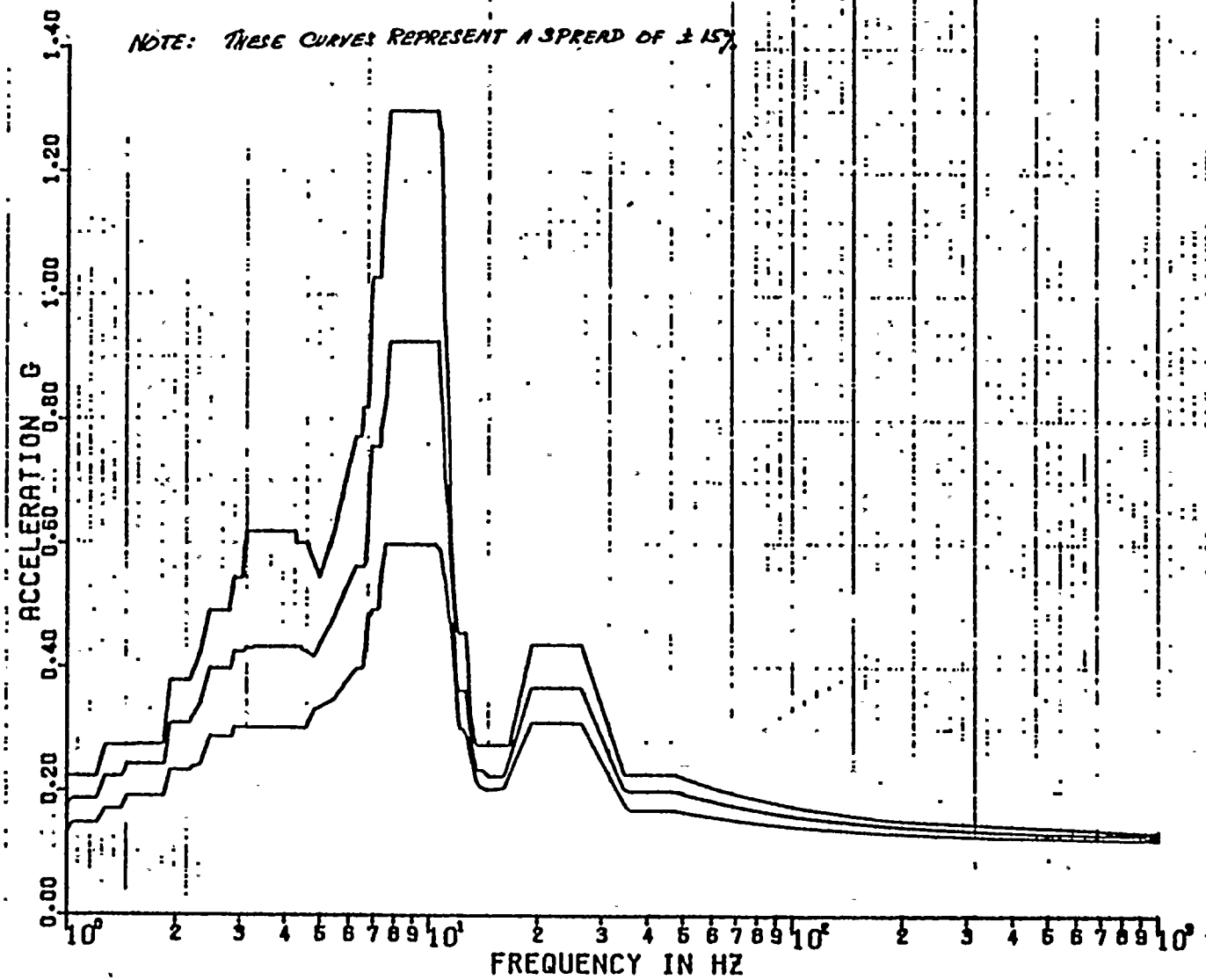
MS 1765

DISK CURVE SET NO.7

VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: THESE CURVES REPRESENT A SPREAD OF ± 15%



REF. 95

136

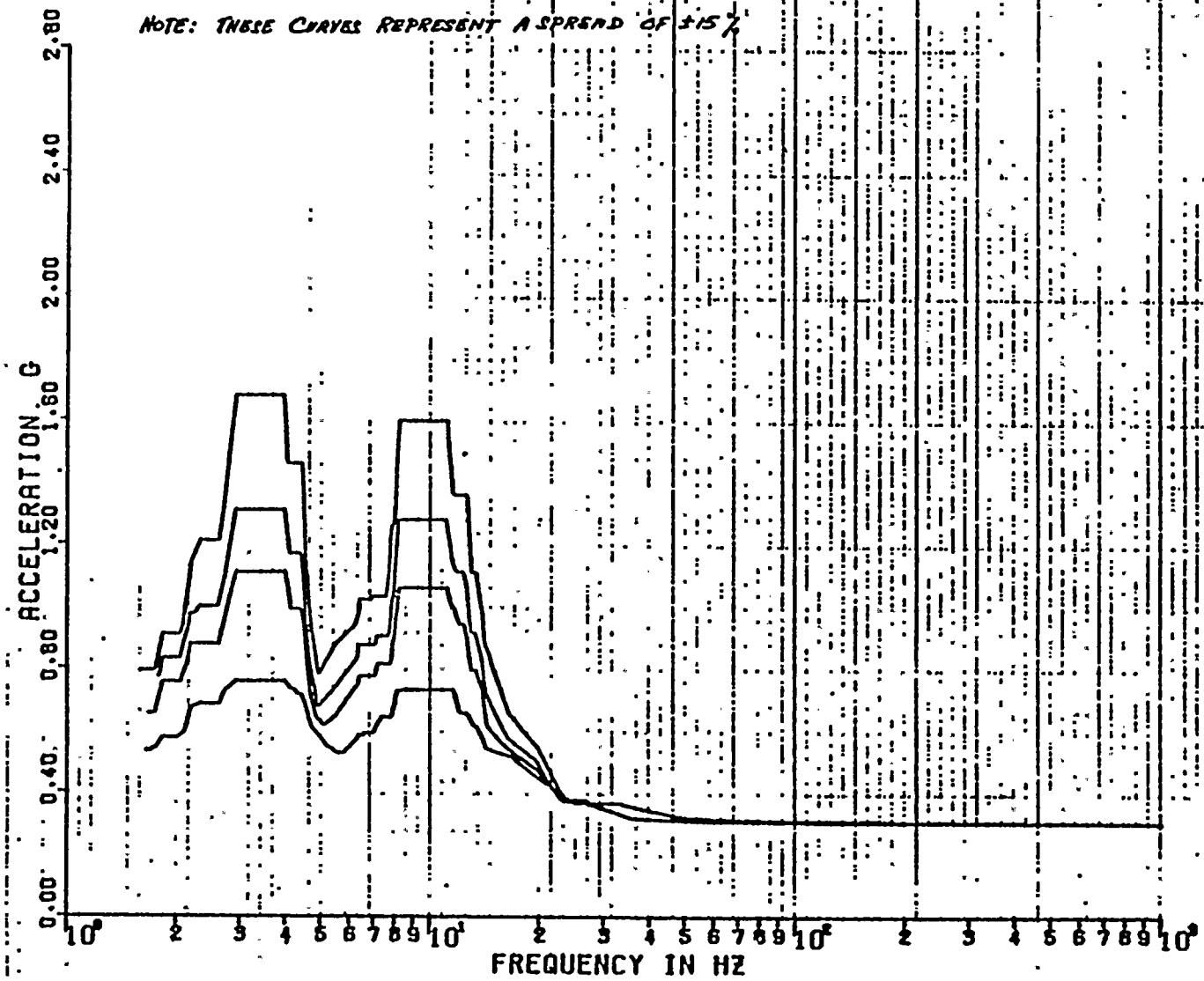
PGPECTRA VER 01 LEV 08 SEISMIC (SSE) 27 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177 MS-1765-0
RRS OF ACC. SECONDARY CONT. (ELEV. 240.0 FT)

MS1765

DISK CURVE SET NO.7 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



REF 95

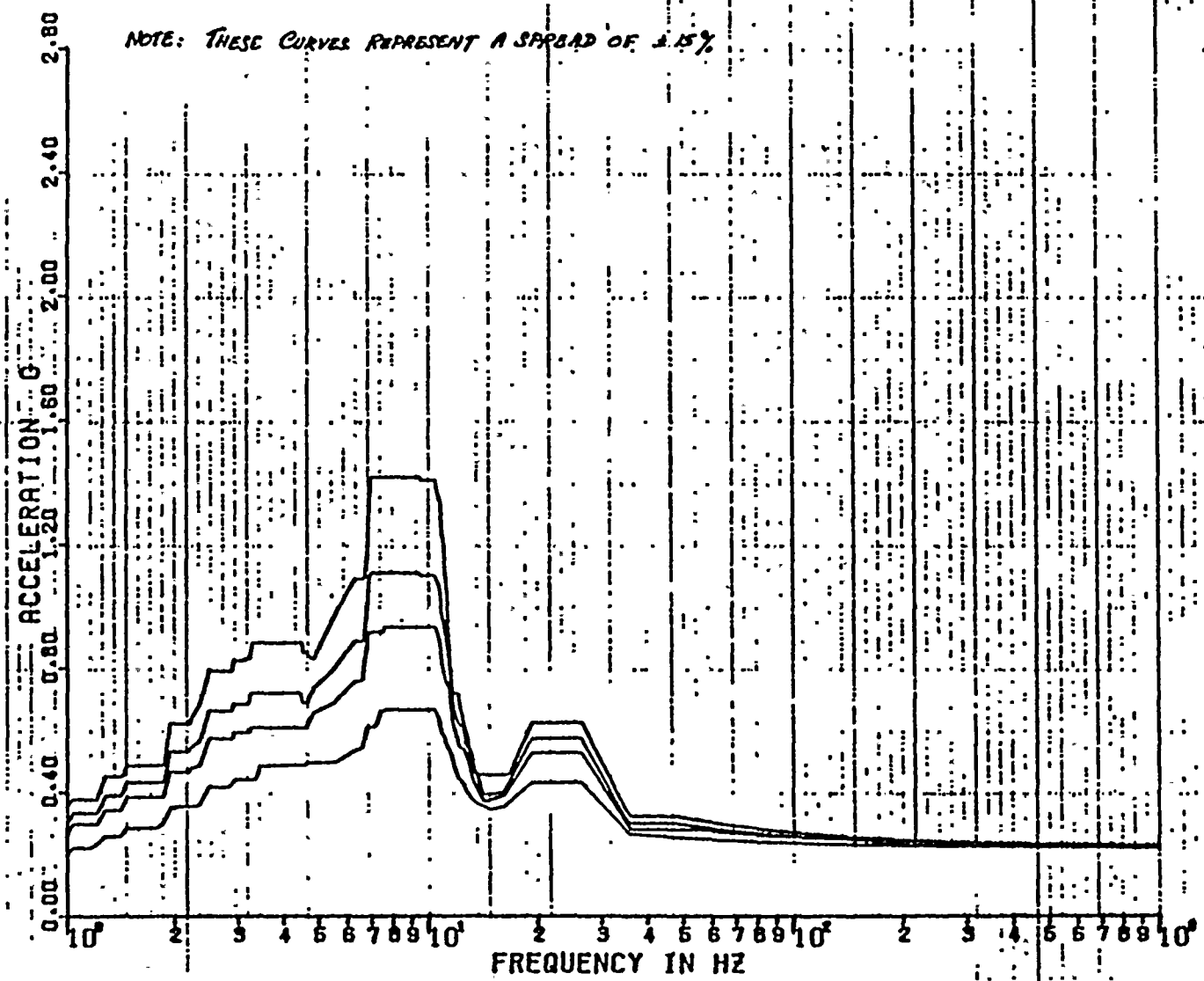
PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 27 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177 MS-1765-0
RRS OF ACC. SECONDARY CONT. (ELEV. 240.0 FT)

MS1765

DISK CURVE SET NO.7 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



37

ASC 85

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 27 DEC 1982

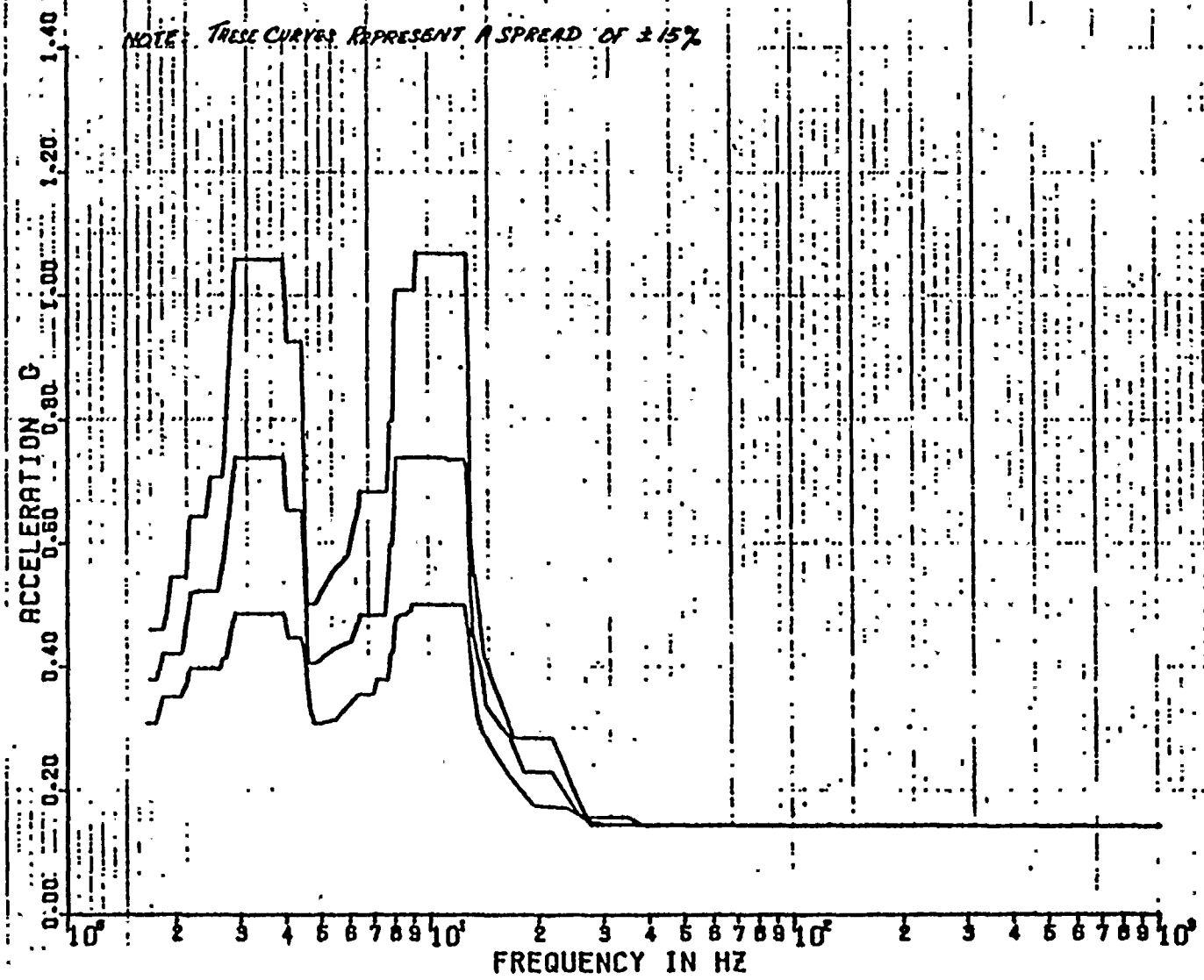
NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177 MS-1765-0

RRS OF ACC. SECONDARY CONT. (ELEV. 215.0 FT)

MS1765

DISK CURVE SET NO.8 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



REF 96

PGPECTRA VER 01 LEV 08 SEISMIC (1.0G)

27 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177 MS-1765-0

RRS OF ACC. SECONDARY CONT. (ELEV. 215.0 FT)

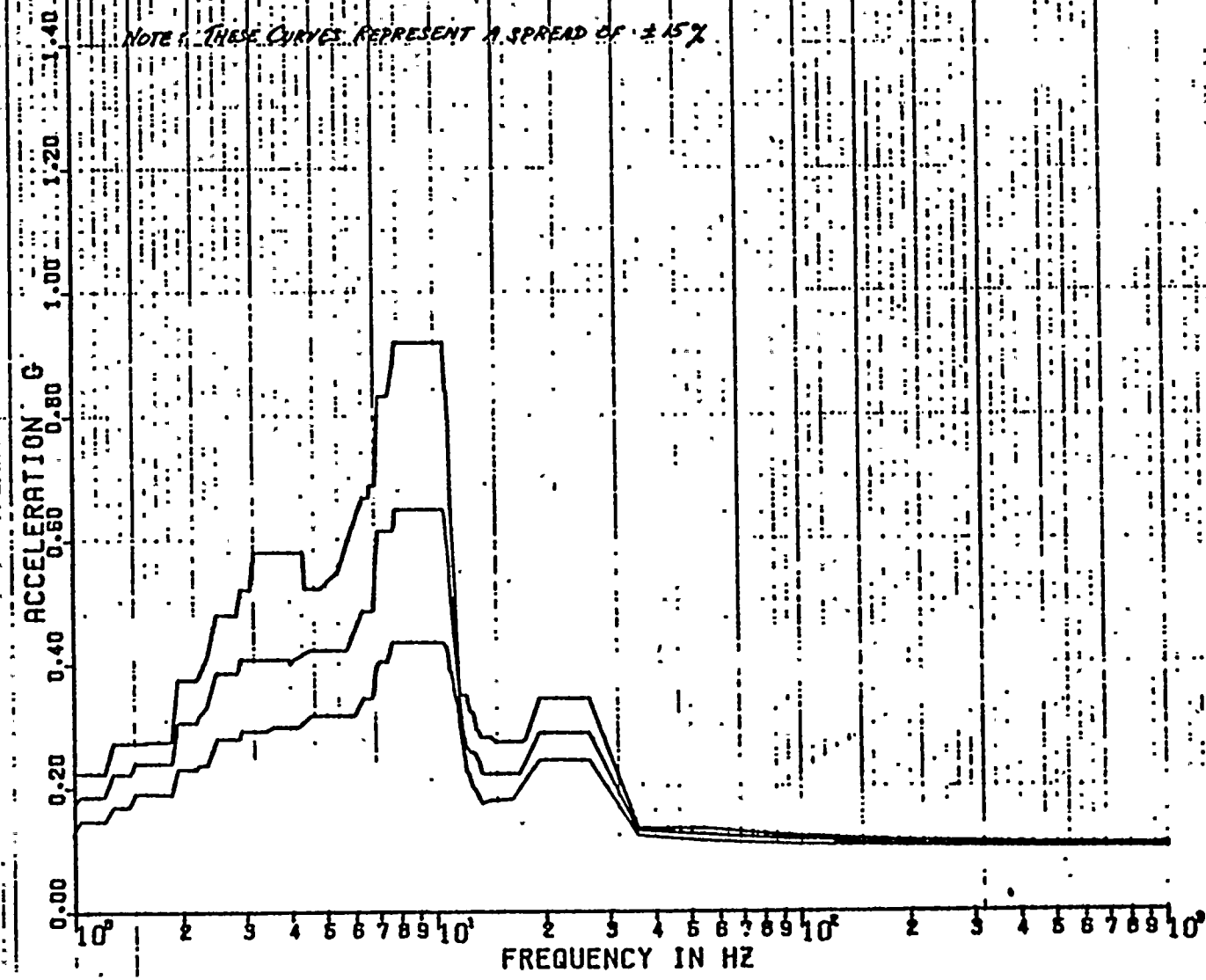
MS1765

DISK CURVE SET NO.8

VER DIRECTION

DAMPING VALUES : 0.010
0.020
0.040

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



138

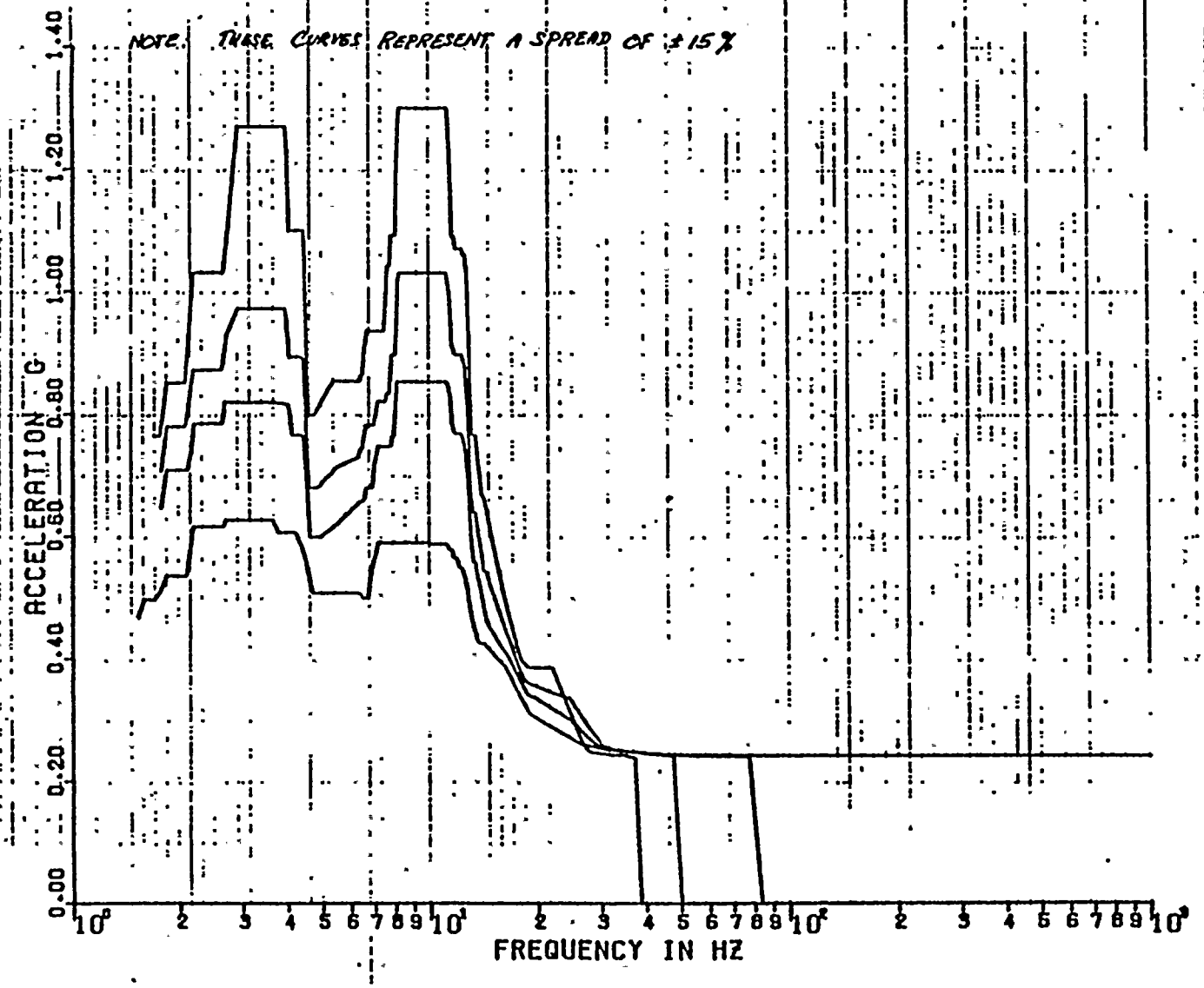
PSPECTRA VER 01 LEV 08 (SEISMIC SSE) 27 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177 MS-1765-0
RRS OF ACC. SECONDARY CONT. (ELEV. 215.0 FT)

MS1765

DISK CURVE SET NO.8 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



REF 96

139

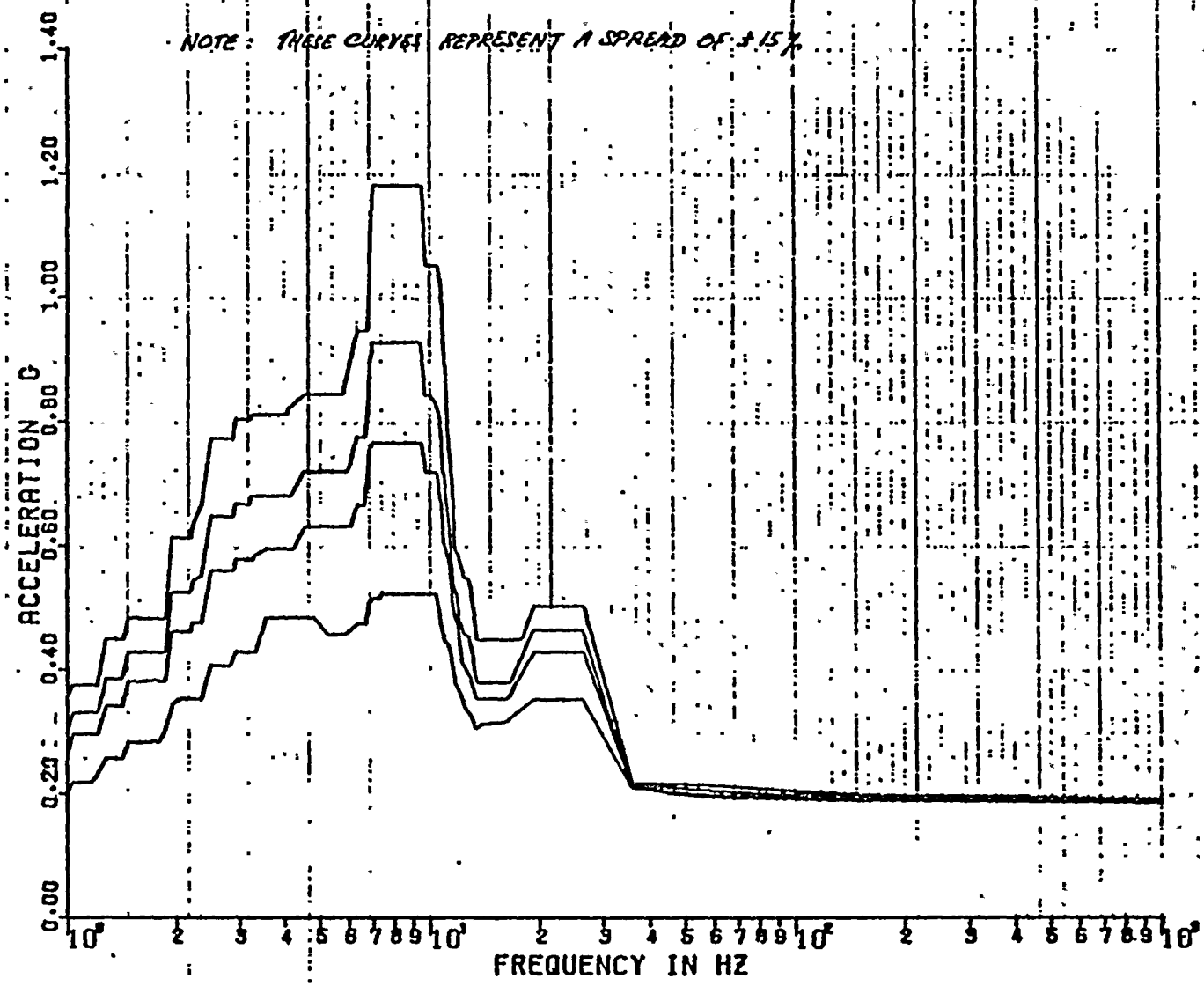
PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 27 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12177 MS-1765-0
RRS OF ACC. SECONDARY CONT. (ELEV. 215.0 FT)

MS1765

DISK CURVE SET NO.8 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



E-37

96

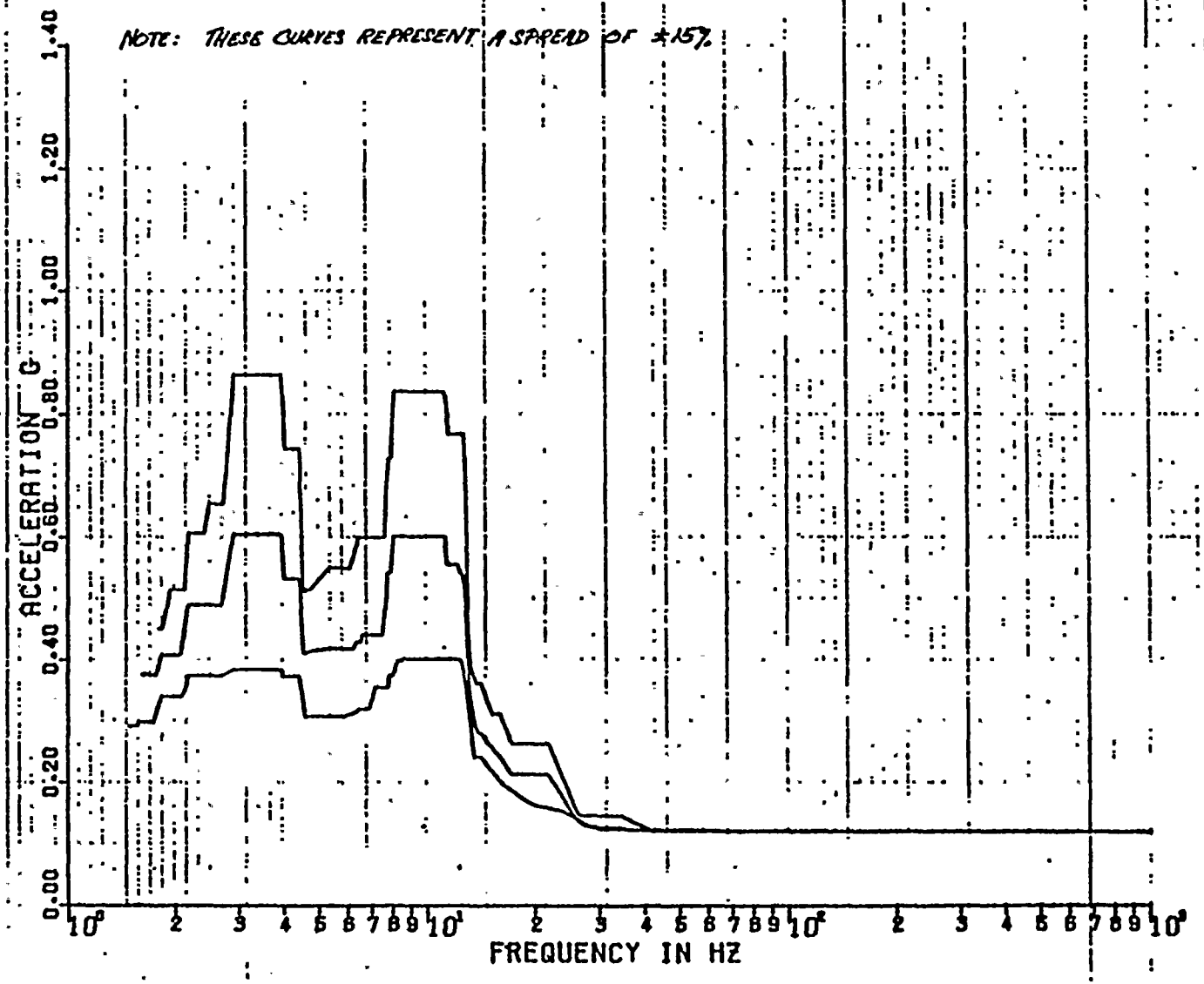
PSPECTRA VER 01 LEV 08 SEISMIC CASE) 27 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1765-0
RRS OF ACC. SECONDARY CONT. (ELEV. 186.0 FT)

MS1765

DISK CURVE SET NO.9 HOR DIRECTION DAMPING VALUES = 0.010
0.020
0.040

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



75

REF 97

76

PSPECTRA VER 01 LEV 08 SEISMIC [illegible]E) 27 DEC 1982

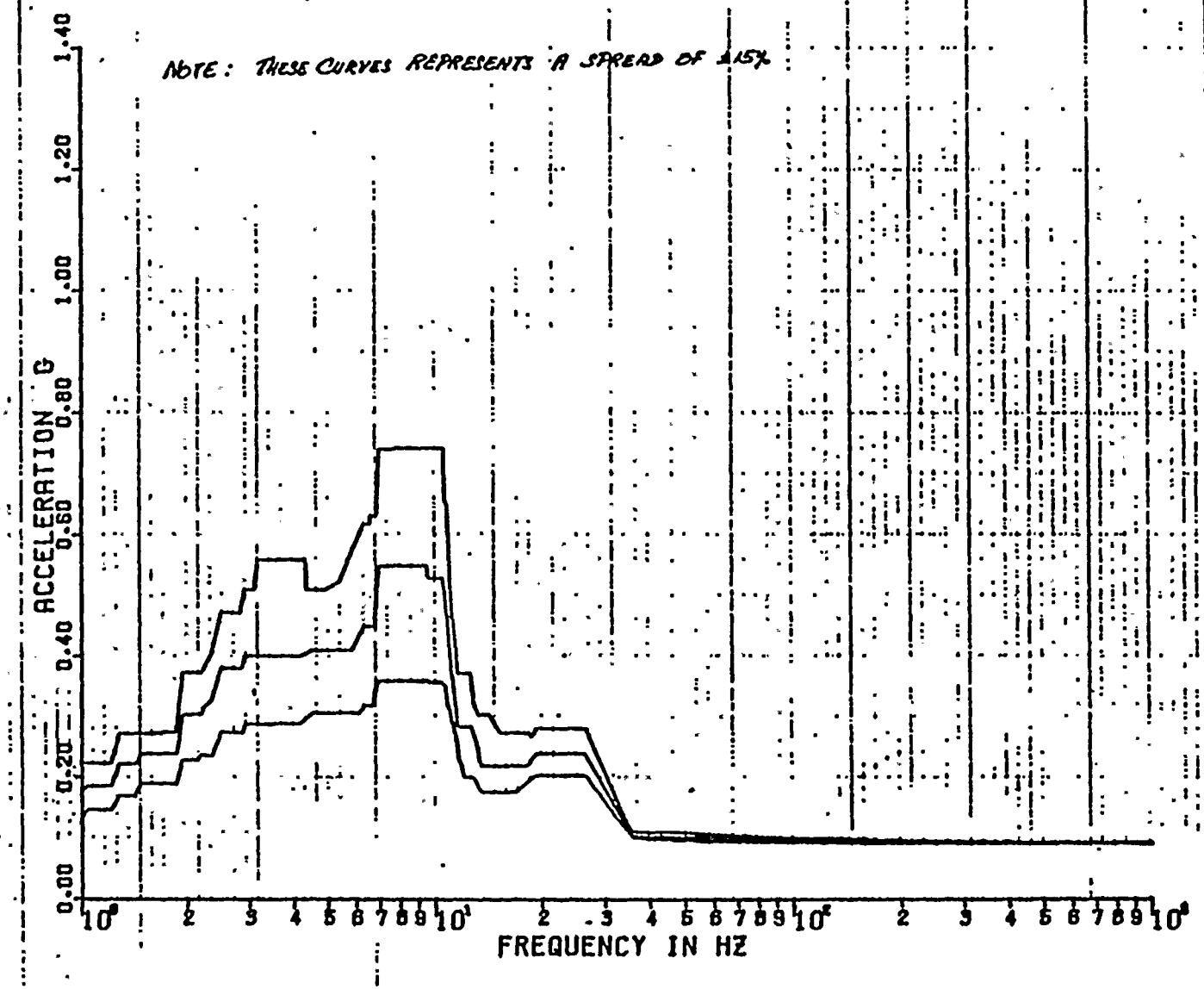
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1765-0

RRS OF ACC. SECONDARY CONT. (ELEV. 198.0 FT)

MS1765

DISK CURVE SET NO.9 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: THESE CURVES REPRESENTS A SPREAD OF ±15%



REF. 99

140

PSPECTRA VER 01 LEV 08 SEIS(SSE) 27 DEC 1982

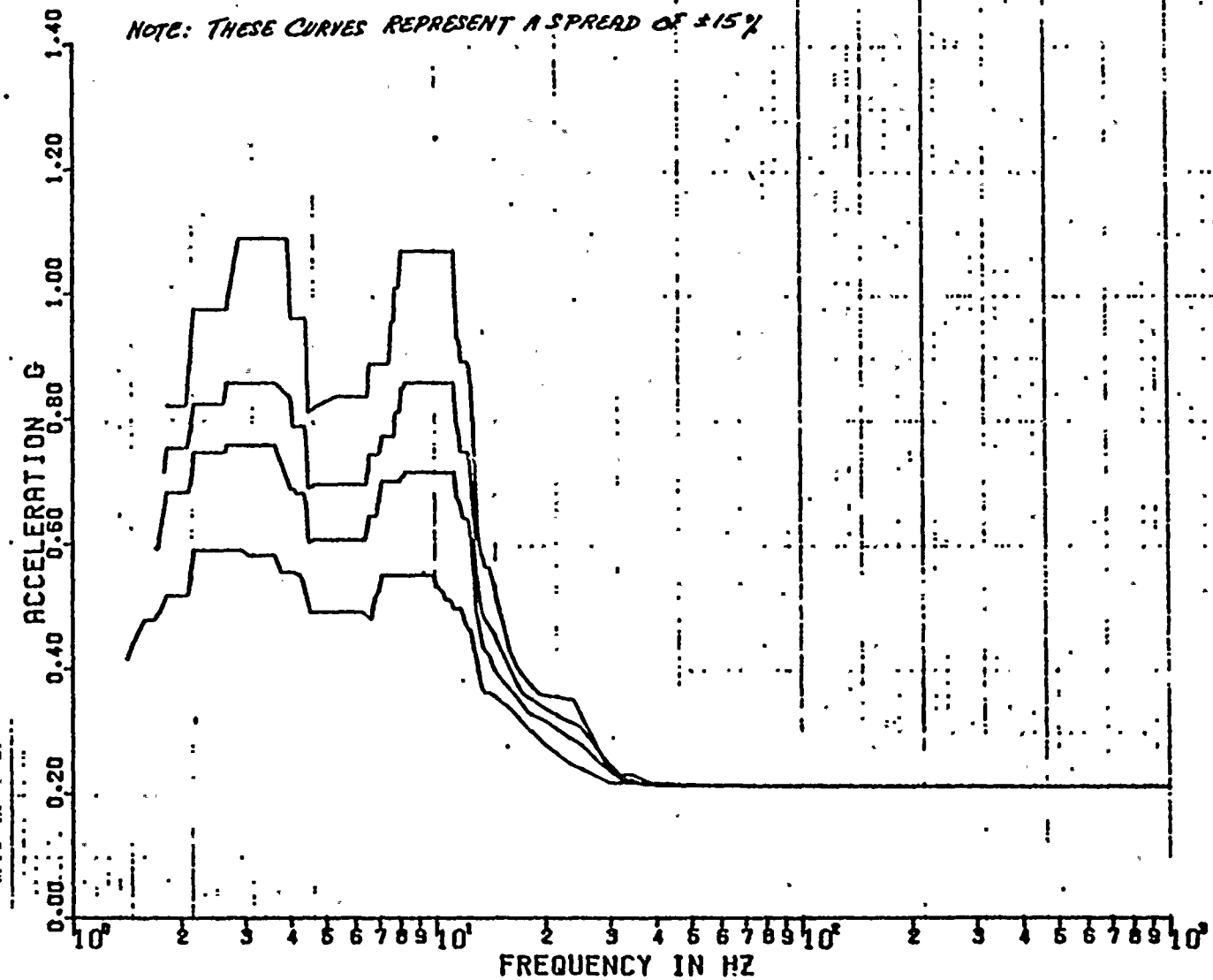
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 S.O.12177 MS-1765-0

RRS OF ACC. SECONDARY CONT. (ELEV. 198.0 FT)

MS1765

DISK CURVE SET NO.9 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



REF 97

141

PGPECTRA VER 01 LEV 08 SEISMIC (E) 27 DEC 1982

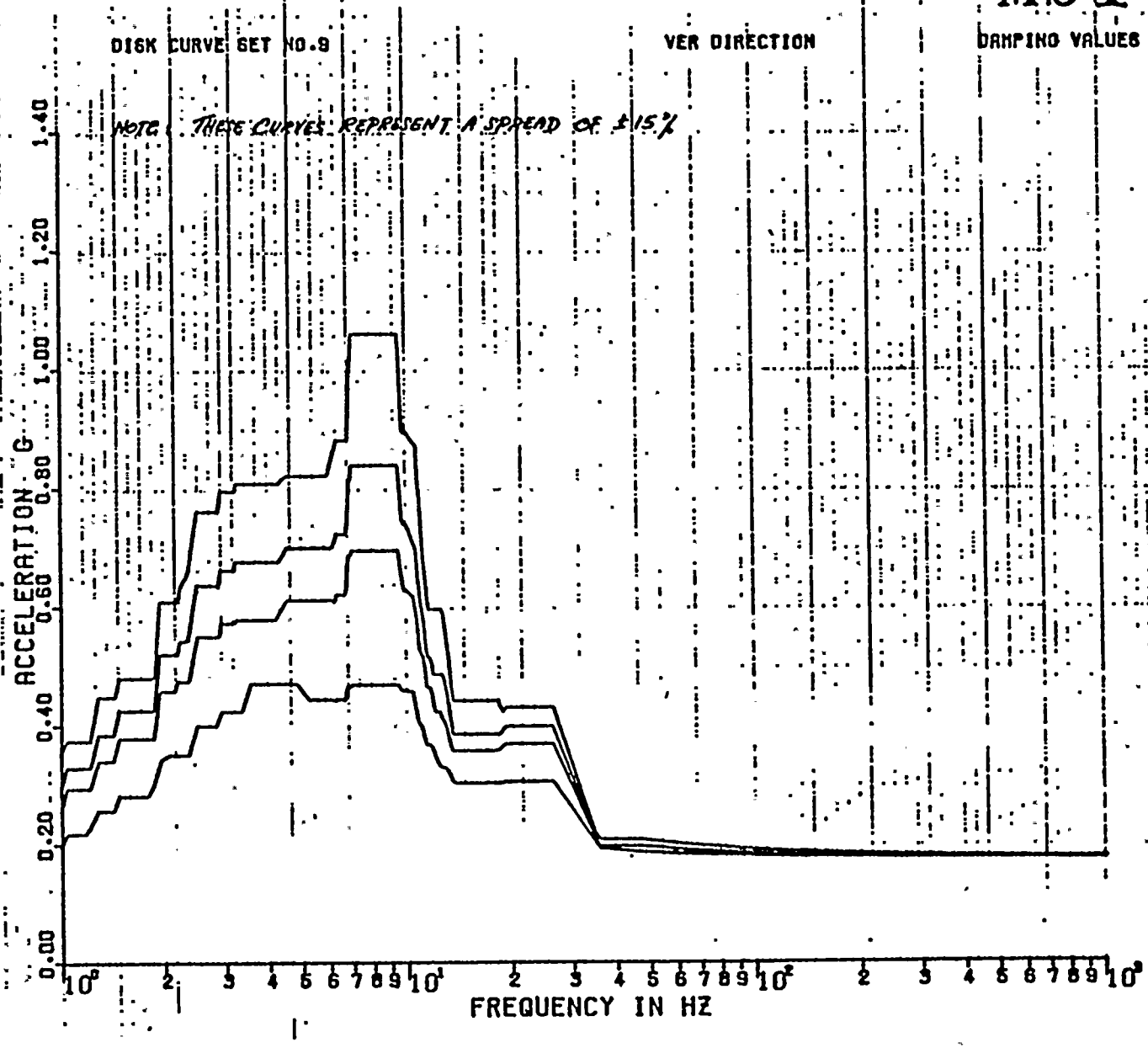
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1765-0

RRS OF ACC. SECONDARY CONT. (ELEV. 198.0 FT)

MS1765

DISK CURVE SET NO.9 VER DIRECTION DAMPING VALUES = 0.020 0.030 0.040 0.070

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



Ref 97

77

PSPECTRA VER 01 LEV 08 SEISMIC (OBE) 27 DEC 1982

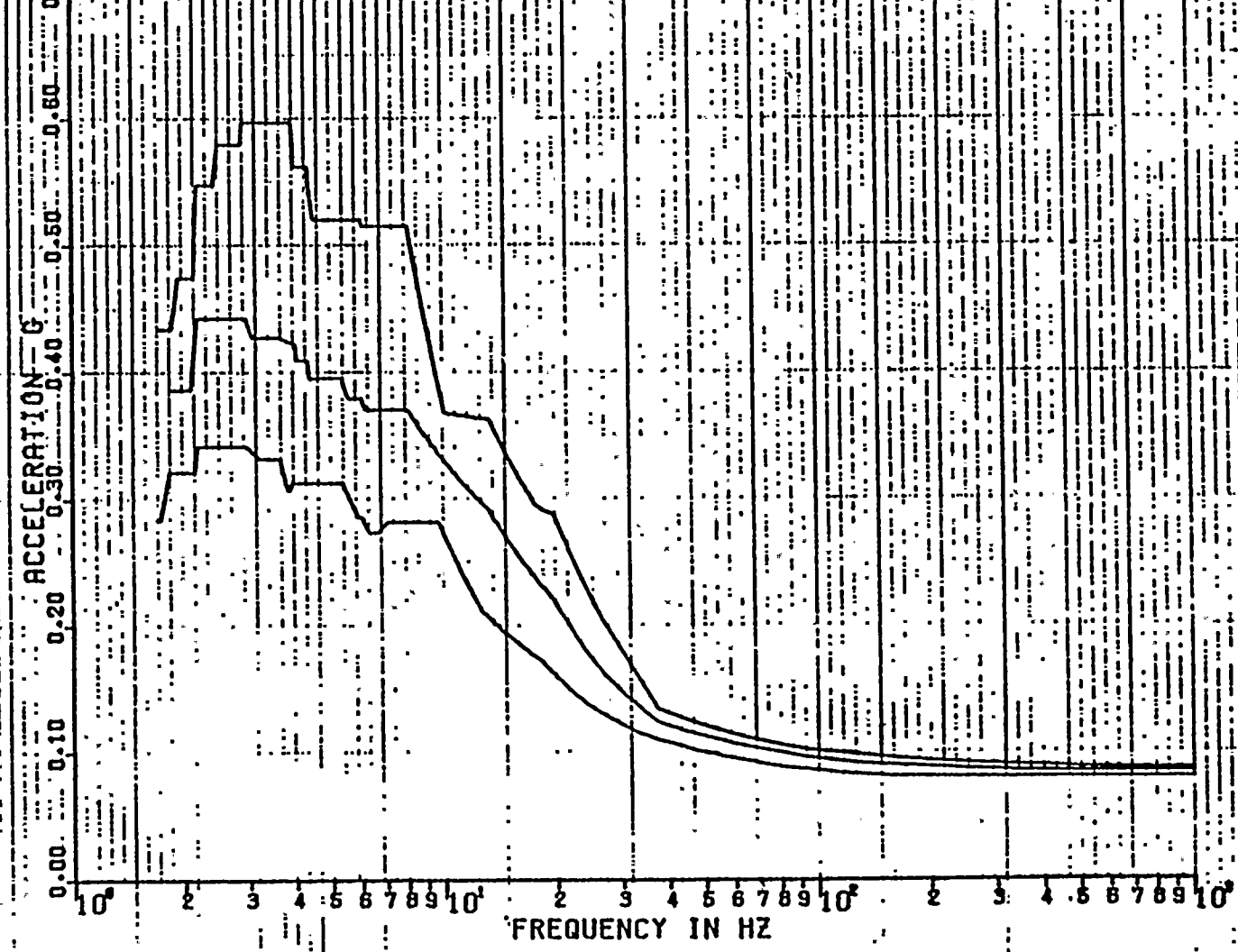
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1765-0

RRS OF ACC. SECONDARY CONT. (ELEV. 175.0 FT)

MS1765

DISK CURVE SET NO.10 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



REF 9B

PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 27 DEC 1982

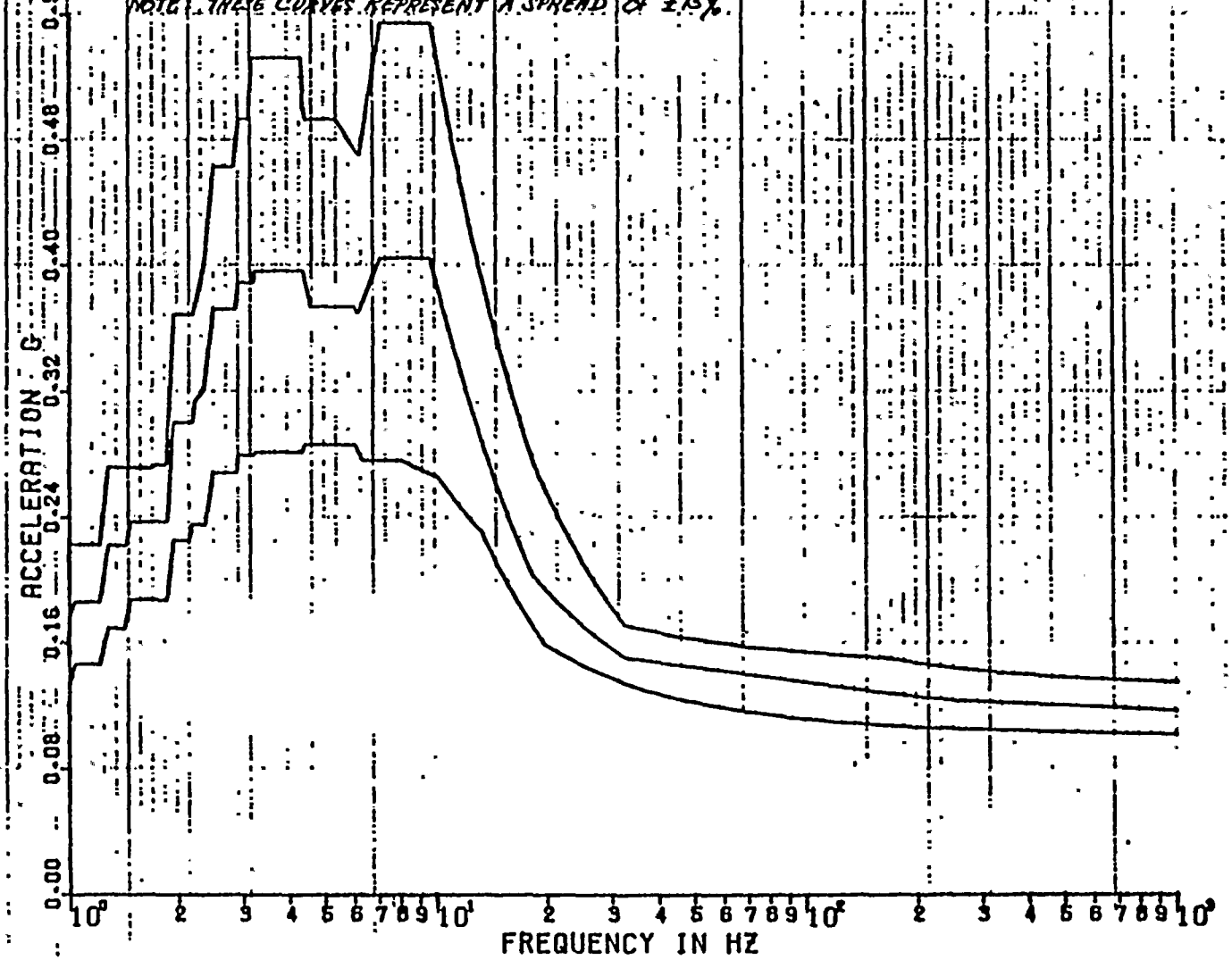
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1765-0

RRS OF ACC. SECONDARY CONT. (ELEV. 175.0 FT)

MS1765

DISK CURVE SET NO.10 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%.



78

REF 98

142

PSPECTRA VER 01 LEV 08 SEISMIC (E) 27 DEC 1982

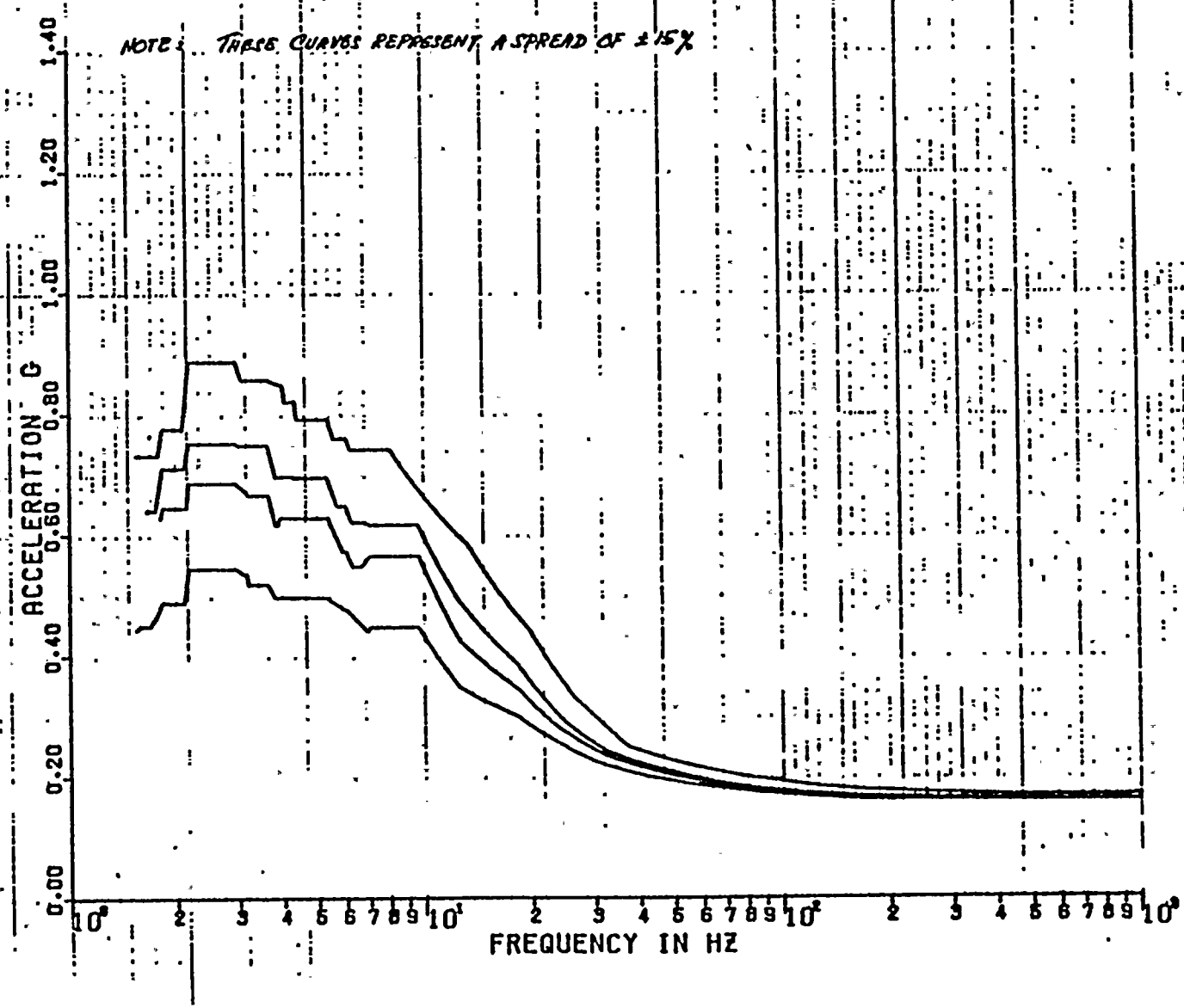
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1765-0

RRS OF ACC. SECONDARY CONT. (ELEV. 175.0 FT)

MS1765

DISK CURVE SET NO.10 HOR DIRECTION DAMPING VALUES : 0.020 0.030 0.040 0.070

NOTE: THESE CURVES REPRESENT A SPREAD OF ±15%



P.E.E. 98

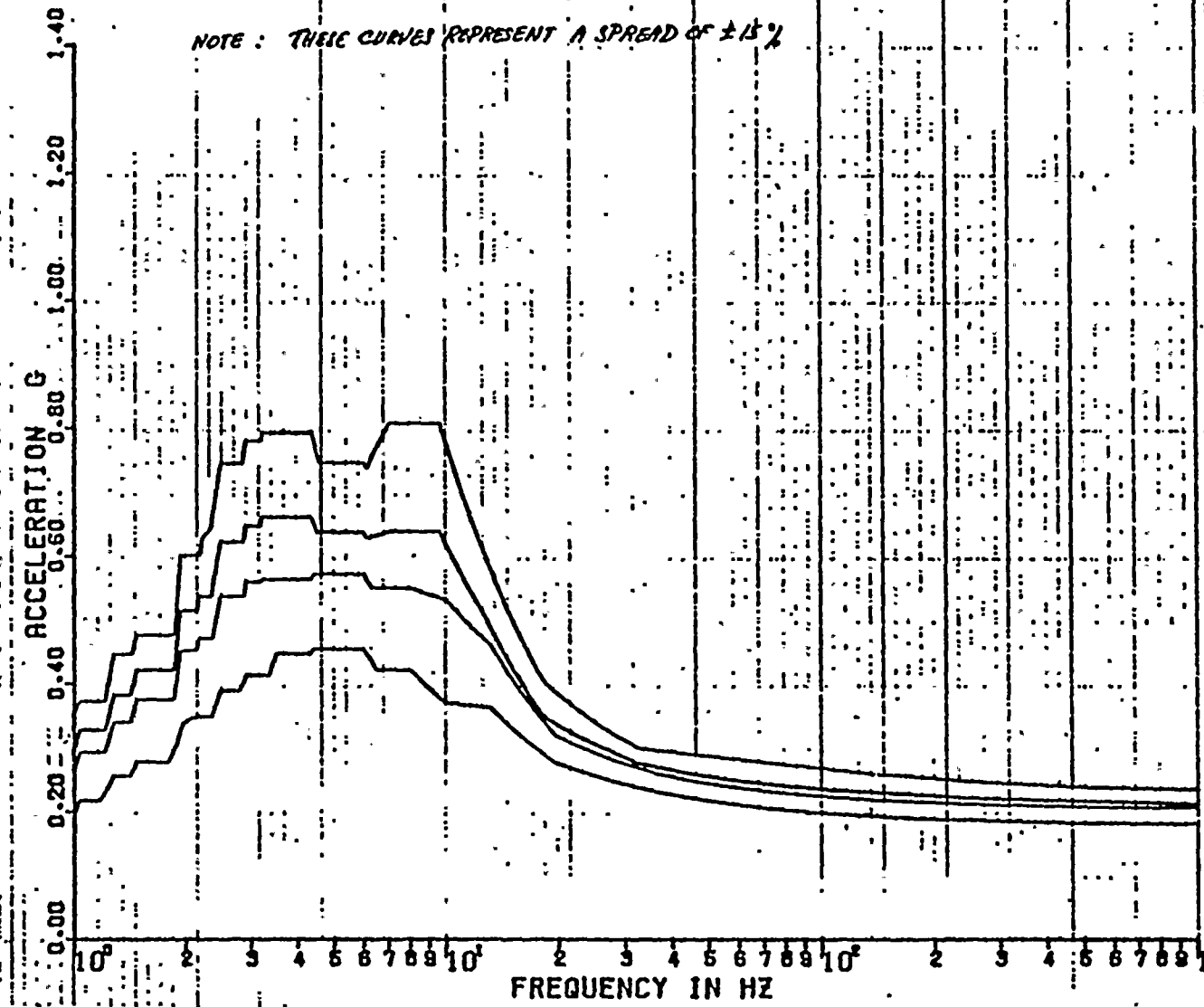
PSPECTRA VER 01 LEV 08 SEISMIC (SSE) 27 DEC 1982

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1765-0
RRS OF ACC. SECONDARY CONT. (ELEV. 175.0 FT)

MS1765

DISK CURVE SET NO.10 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040
0.070

NOTE : THESE CURVES REPRESENT A SPREAD OF ±15%



14

EF 98

NMP2

SEISMIC/HYDRODYNAMIC
UPSET AND FAULTED
REQUIRED RESPONSE SPECTRA FOR THE
REACTOR BUILDING

Seismic and Hydrodynamic
Upset and Faulted

Required Response Spectra (RRS)
for the Reactor Building

Mass Point - Location	Elev (ft)	Reference No.*
1 - Primary Containment	330.08	31
2 - Primary Containment	315.08	32
3 - Primary Containment	302.50	33
4 - Primary Containment	286.83	34
5 - Primary Containment	271.25	35
6 - Primary Containment	255.67	36
7 - Primary Containment	238.00	37
8 - Primary Containment	218.33	38
9 - Primary Containment	196.67	39
10 - Shield Wall	315.09	40
11 - Shield Wall	302.75	41
12 - Shield Wall	290.79	42
13 - Shield Wall	278.65	43
14 - RPV Shell	332.70	44
15 - RPV Shell	315.08	45
16 - RPV Shell	297.17	46
17 - RPV Shell	278.00	47
18 - Drywell Floor	238.00	48
19 - Pedestal	266.50	49
20 - Pedestal	253.13	50
21 - Pedestal	238.00	51
22 - Pedestal	217.50	52
23 - Pedestal	196.25	53
24 - Base Mat	175.00	54
25 - Secondary Containment	416.83	55
26 - Secondary Containment	387.83	56
27 - Secondary Containment	353.83	57
28 - Secondary Containment	328.83	58
29 - Secondary Containment	289.00	59
30 - Secondary Containment	261.00	60
31 - Secondary Containment	240.00	61
32 - Secondary Containment	215.00	62
33 - Secondary Containment	198.00	63
34 - Secondary Containment	175.00	64
Main Steam Isolation Valve (MSIV)	251.5	64A**
Safety Relief Valve	296.5	64B***

*Each reference number includes the following except as noted:

1. Horizontal and vertical direction UPSET condition at 1, 2, and 4 percent damping.

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

**Includes:

1. Longitudinal, lateral, and vertical direction UPSET and FAULTED conditions at 3 percent damping.

2. Longitudinal, lateral, and vertical direction SRV and LOCA conditions at 3 percent.

***Includes:

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

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

3. Horizontal and vertical direction SRV condition at 2 percent damping.

4. Horizontal and vertical direction CHUGGING condition at 3 percent damping.

PSPECTRA VER 01 LEV 00 FAULTED CONDITION 26 JAN 1985

NIAGARA MOHAWK-NINE MILES UNIT POINT-2 J.0.12.71 MS-1747-0

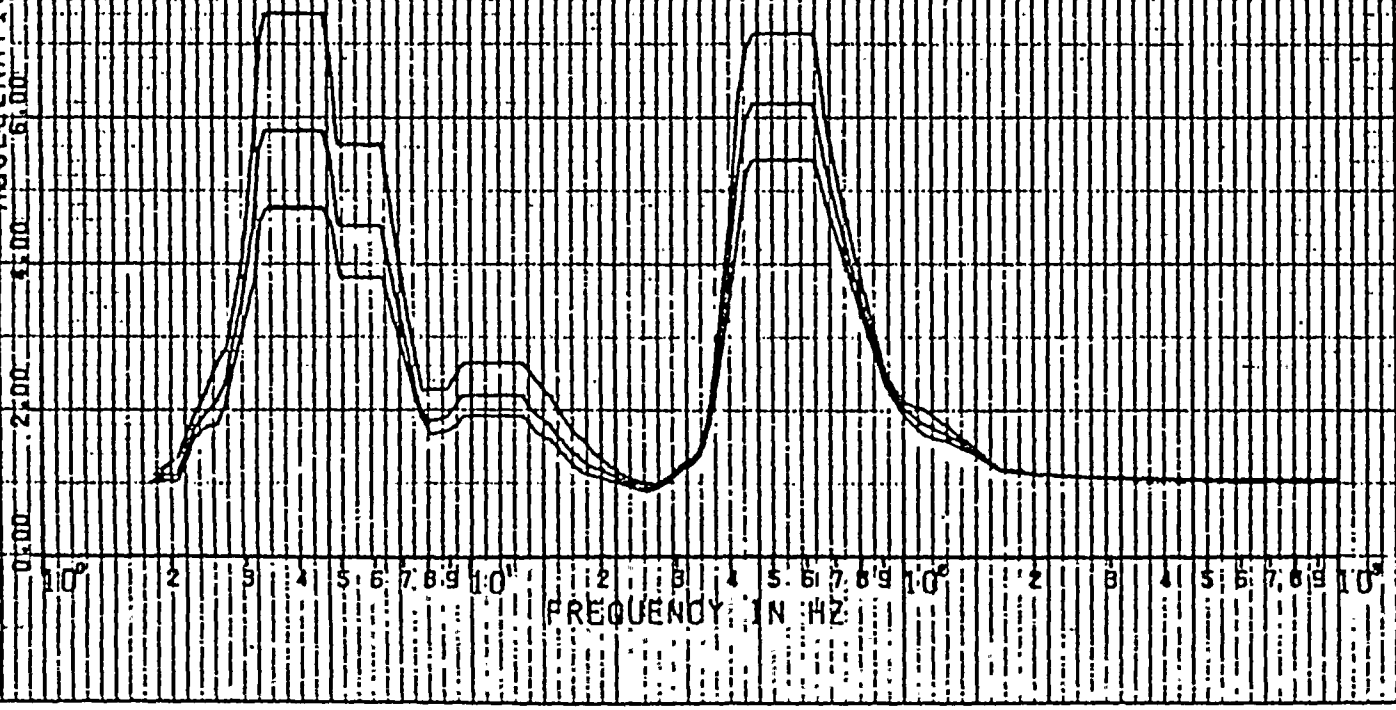
MS 1747

RRS OF ACCELERATION PRIMARY CONT. (ELEV. 380.00 FT.)

MICHAEL K. DD

DISK CURVE SET NO.1 HOR. DIRECTION DAMPING VALUES = 0.020
0.050
0.080

NOTE: HORIZONTAL OF RRS CURVES WITH DAMPING 2% 5% & 8%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 31

00000021

PSPECTRA: VER: 01 LEV 08 FAULTED CONDITION: 26 JAN 1983

NIAGARA MOHAWK-NINE MILES UNIT POINT-2 0.0.12.77 S-1747-0

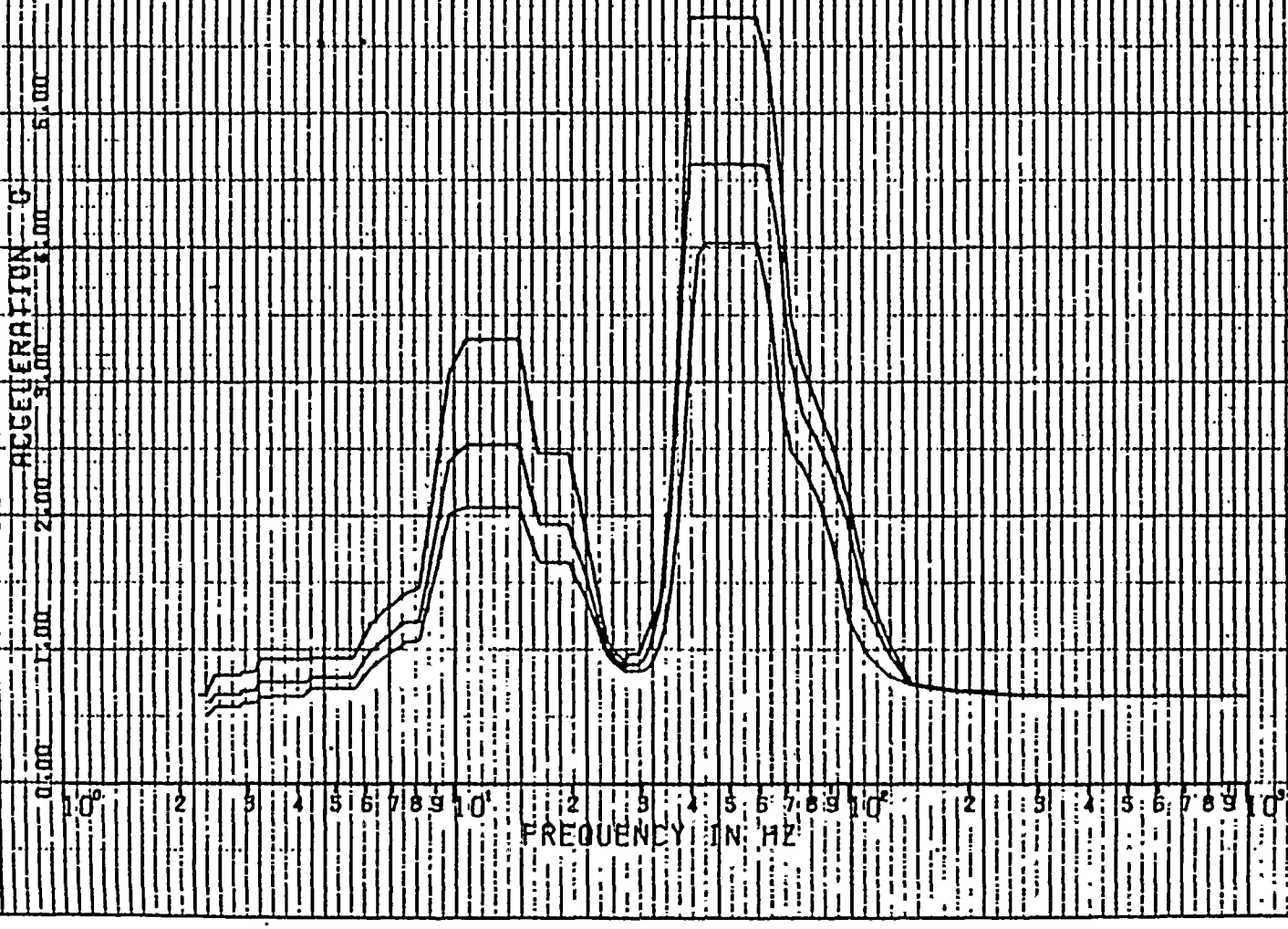
RMS OF ACCELERATION PRIMARY CONT. (ELEV. 350.0 FT.)

MS 1747

MICHAEL K. DO

DISK CURVE SET NO.1 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +1SD AND -1SD



REF 31

0000000024

PSPECTRA VER 01 LEV 08 UP ONDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES UNIT POINT-2 J.O.12... MS-1746-0

RRS OF ACCELERATION PRIMARY CONT. (ELEV. 330.09 FT.)

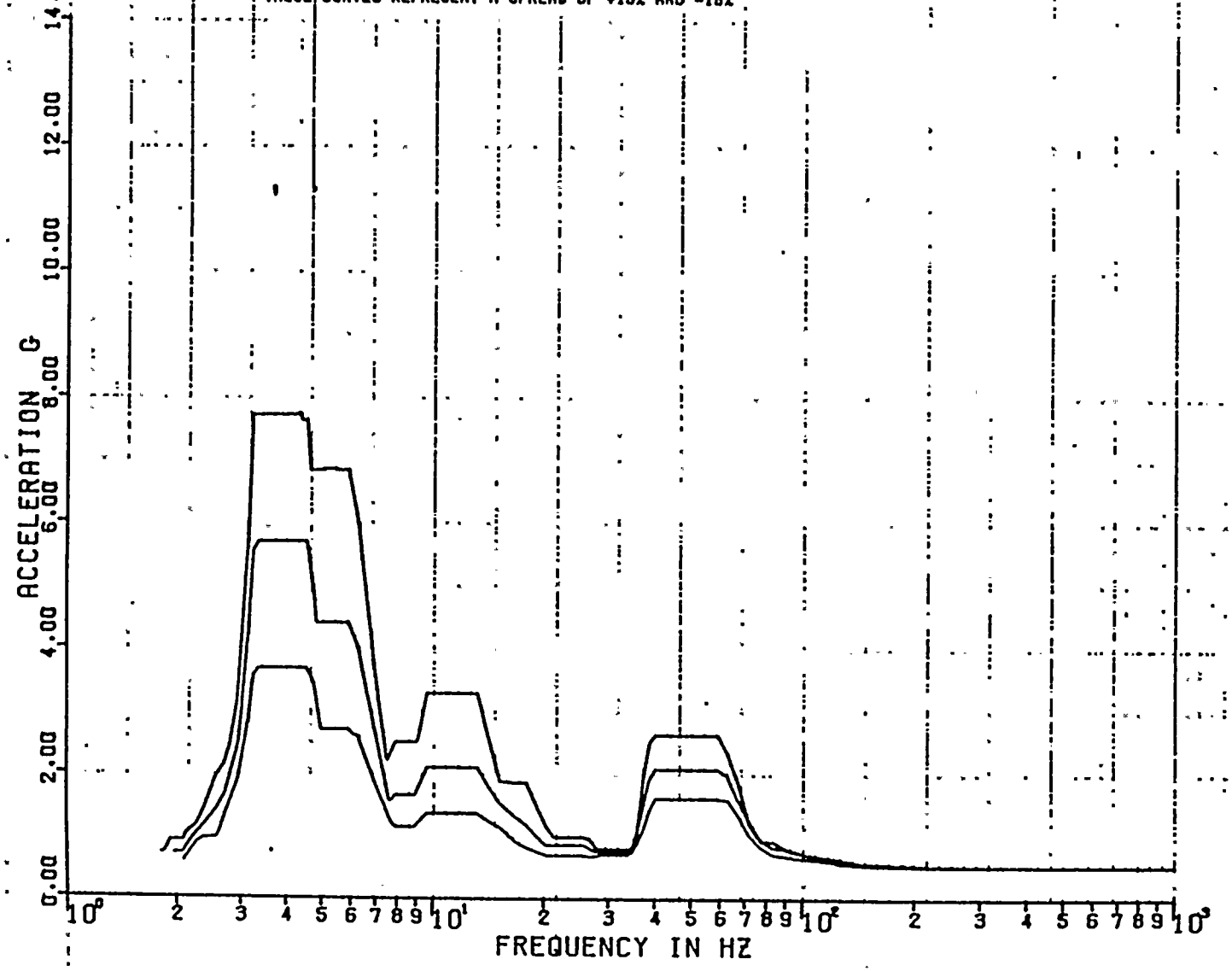
MS 1746

MICHAEL K DO

DISK CURVE SET NO.1 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



PAGE 31

PSPECTRA VER 01 LEV 08 UPSE[illegible]ITION 24 JAN 1989

NIAGARA MOHAWK-NINE MILES UNIT POINT-2 J.O.12177 MS-1746-0

RRS OF ACCELERATION PRIMARY CONT. (ELEV. 330.08 FT.)

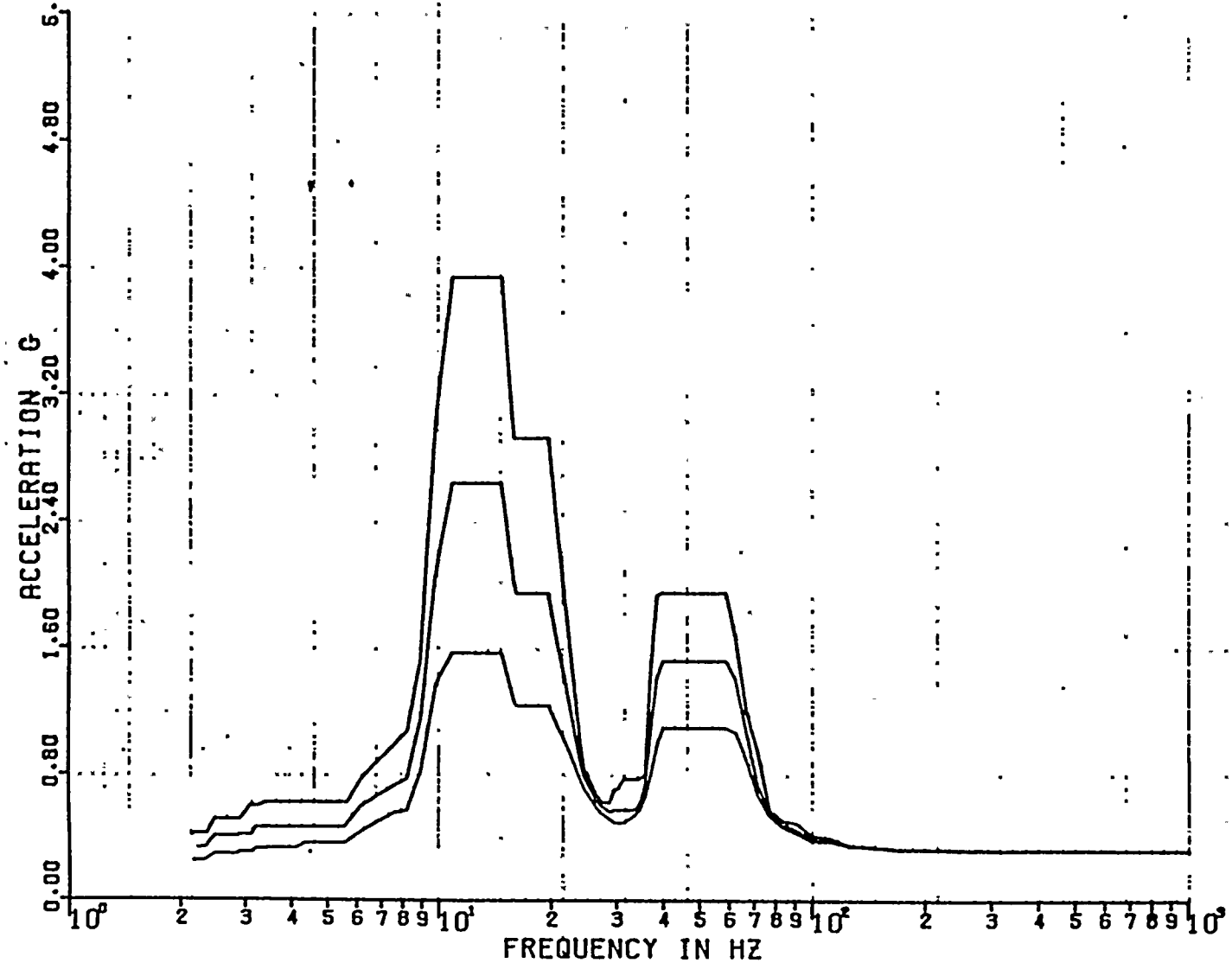
MS 1746

MICHAEL K OO

DISK CURVE SET NO.1 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



Ref 31

PSPECTRA VER 01 LEV. 08 FAULT CONDITION 25 JAN 1983

MIRCHRA MOHAWK-NINE MILES UNIT POINT-2 0.0.121 MS-1747-0

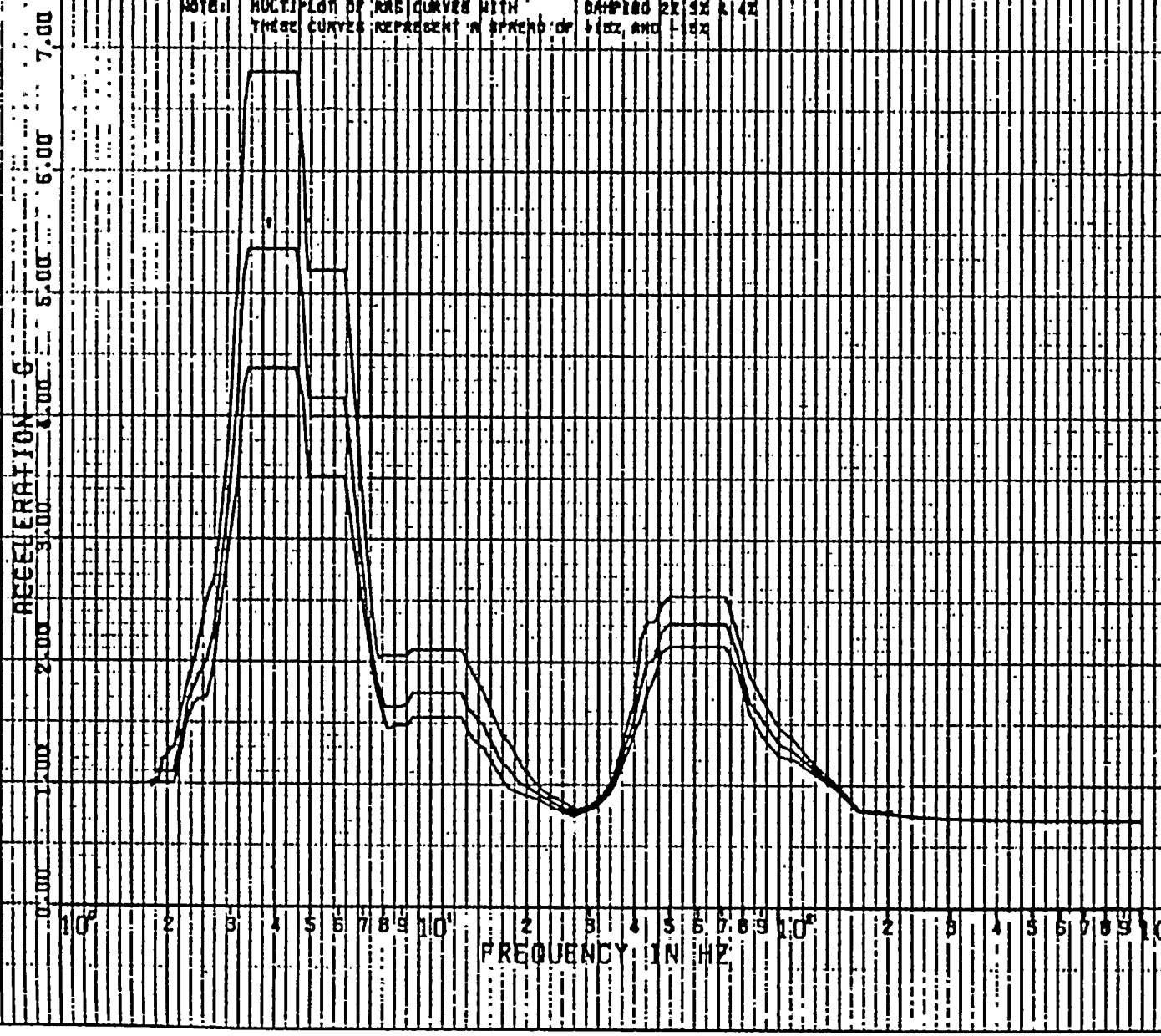
RMS OF ACCELERATION PRIMARY CONT. (ELEV:815.00 FT)

MS 1747

MICHRA X 00

DISK CURVE SET NO.2 HOR DIRECTION DAMPING VALUES = 0.020 0.050 0.080

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2% 5% & 8%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 32

0000000023

PSPECTRA VER 01 LEV 00 FAULT-0 CONDITION 26 JAN 1983

NIAGARA MOHAWK-NINE MILES UNIT POINT-2 J.O.12 MS-1747-0

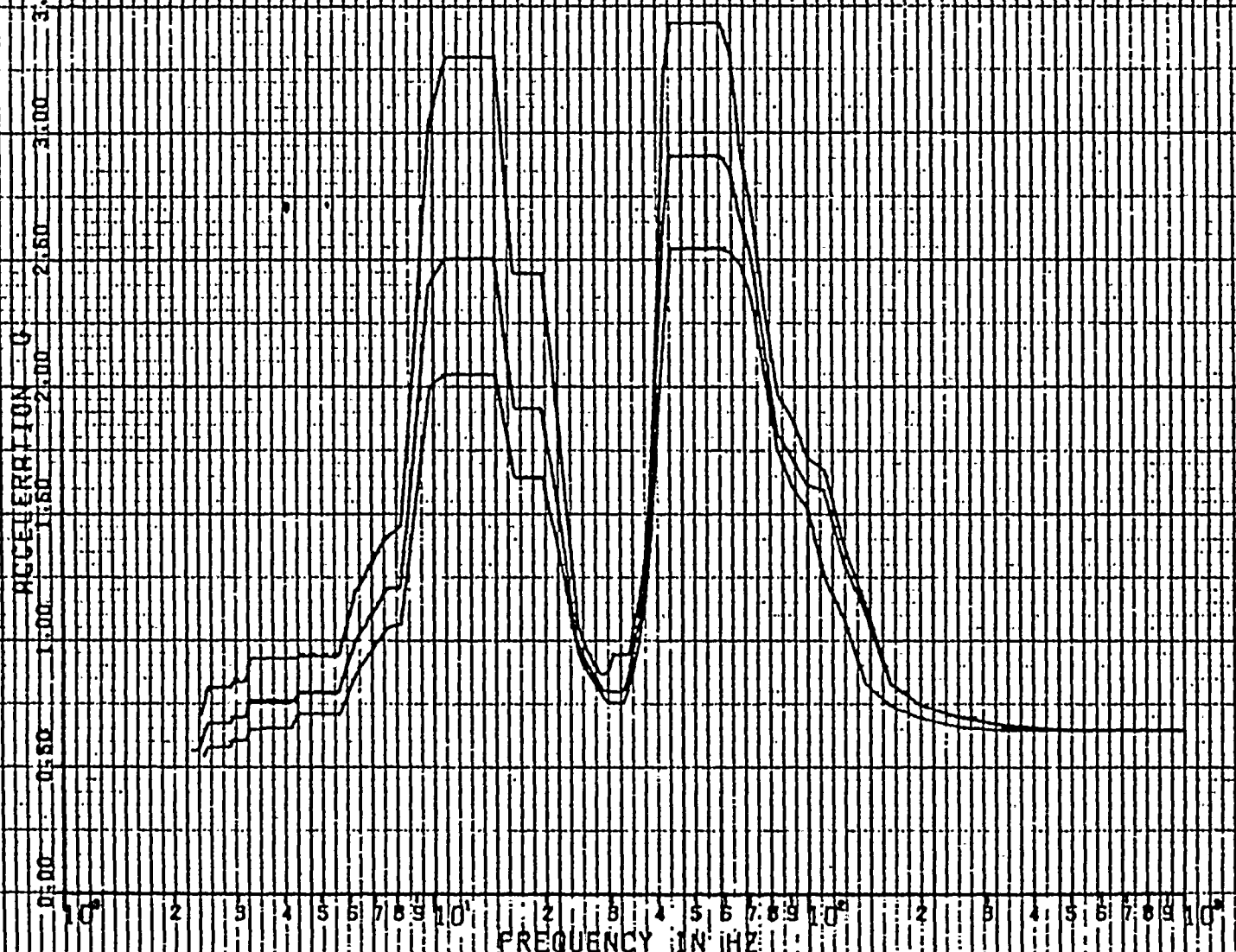
RMS OF ACCELERATION PRIMARY CONT. ELEV.316.0 FT)

MS 1747

MICHAEL K. SO

DISK CURVE SET NO.2 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2% 3% & 4%
INDEX CURVES REPRESENT A SPREAD OF +18% AND -15%



REF 32

0000000024

PSPECTRA VER 01 LEV 08 UPD[illegible] IDITION 24 JAN 1985

NIAGARA MOHAWK-NINE MILES UNIT POINT-2 J.O.1217. MS-1746-0

RRS OF ACCELERATION PRIMARY CONT. (ELEV.315.08 FT)

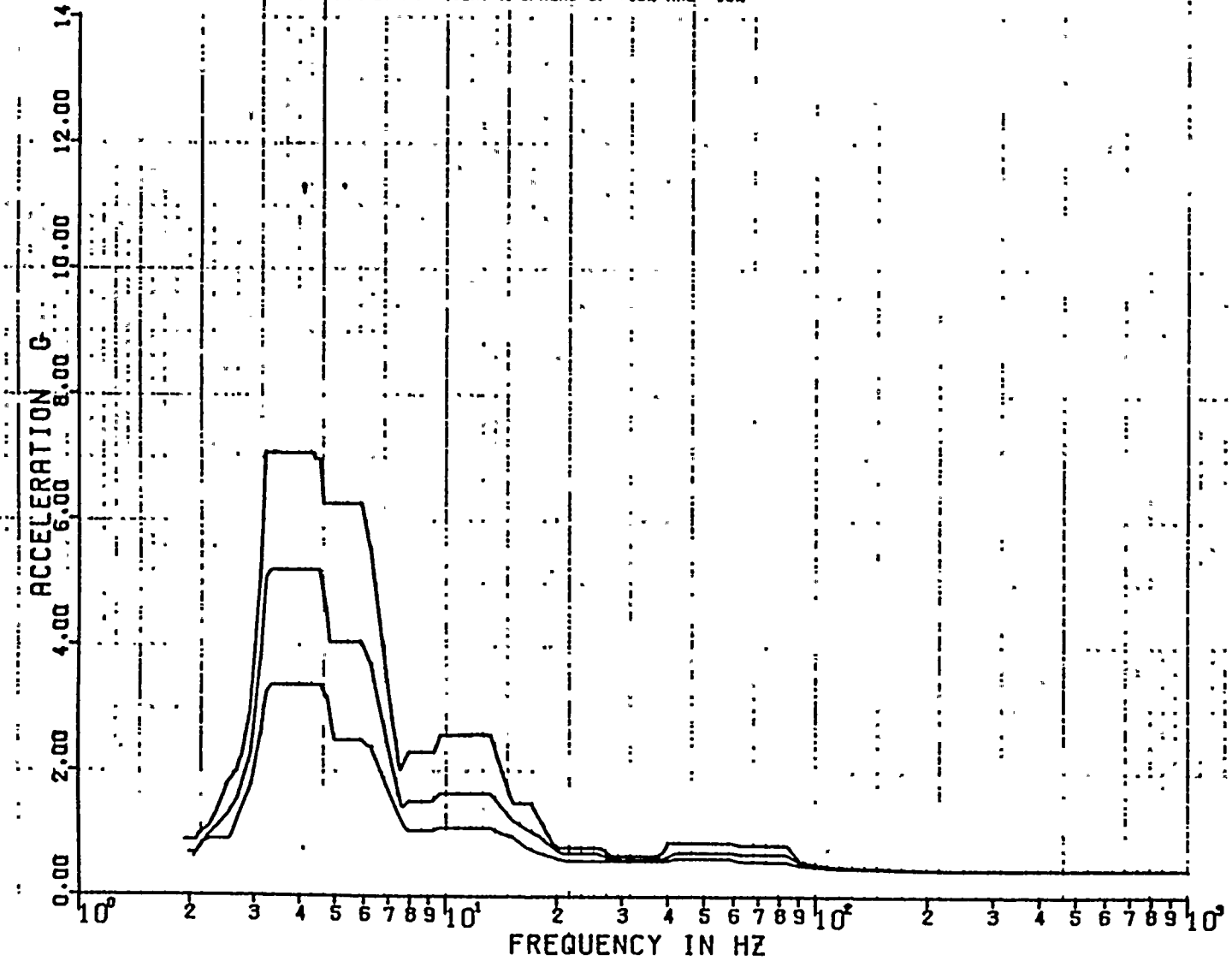
MS 1746

MICHAEL K DO

DISK CURVE SET NO.2 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 32

PSPECTRA VER 01 LEV 08 UPF NDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES UNIT POINT-2 J.O.12 MS-1746-0

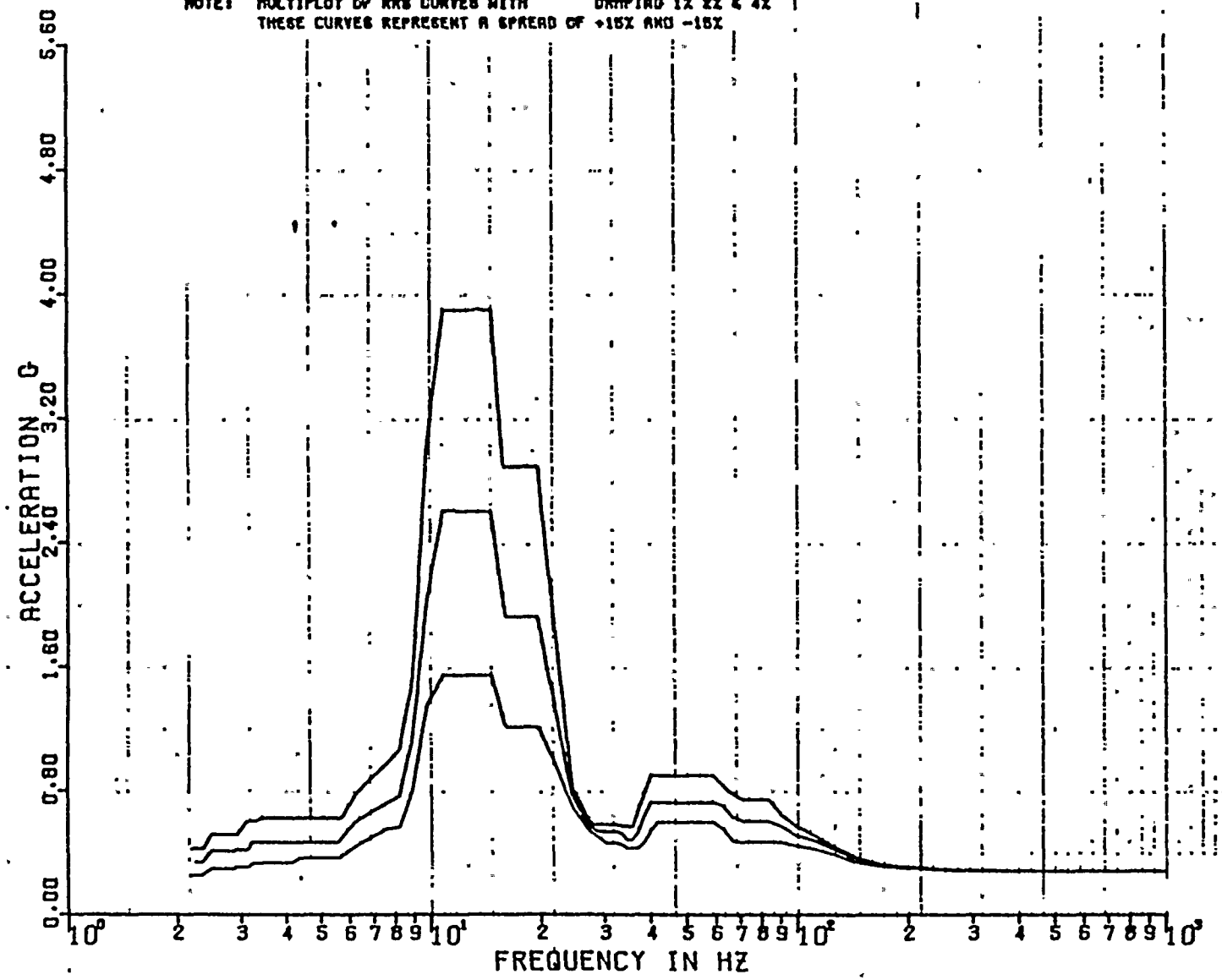
RRS OF ACCELERATION PRIMARY CONT. (ELEV.315.08 FT)

MS 1746

MICHAEL K DO

DISK CURVE SET NO.2 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 32

PSPECTRA VER 01 LEV 00 FA[illegible] CONDITION 26 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT 2-0.0.1[illegible] MS-1747-0

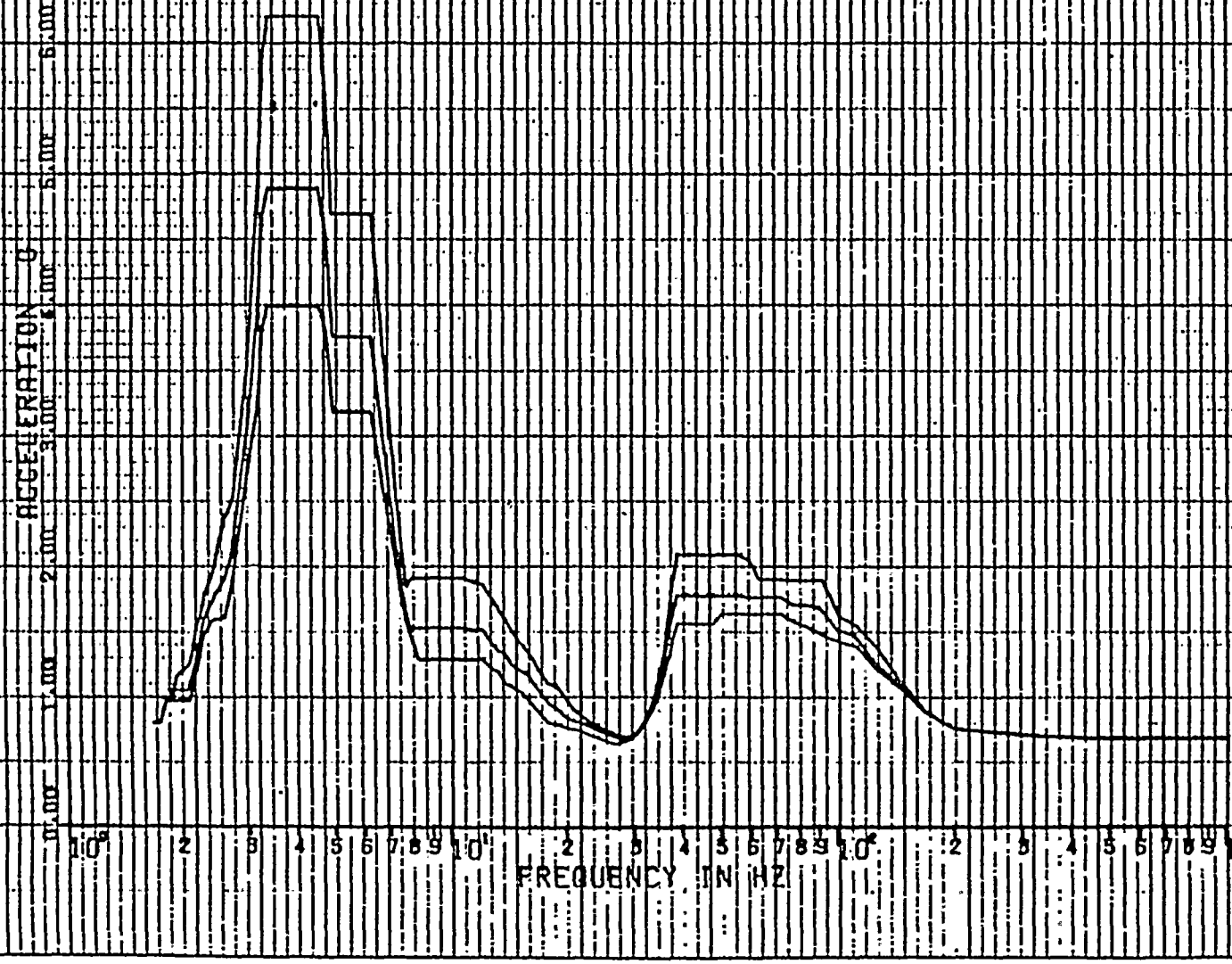
RRS OF ACCELERATION PRIMARY CONT. (ELEV 302.50 FT)

MS 1747

MICHAEL K. [illegible]

DISK CURVE SET NO.3 HOR DIRECTION DAMPING VALUES = 0.020 0.050 0.080

NOTE: MULTIPLOT OF RRS CURVES WITH SAMPLED FX SX & 4Z
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 33

0000000025

PSPECTRA VER 01 LEV 08 FAULTED CONDITION 26 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT 2-D.D.1219. MS-1747-D

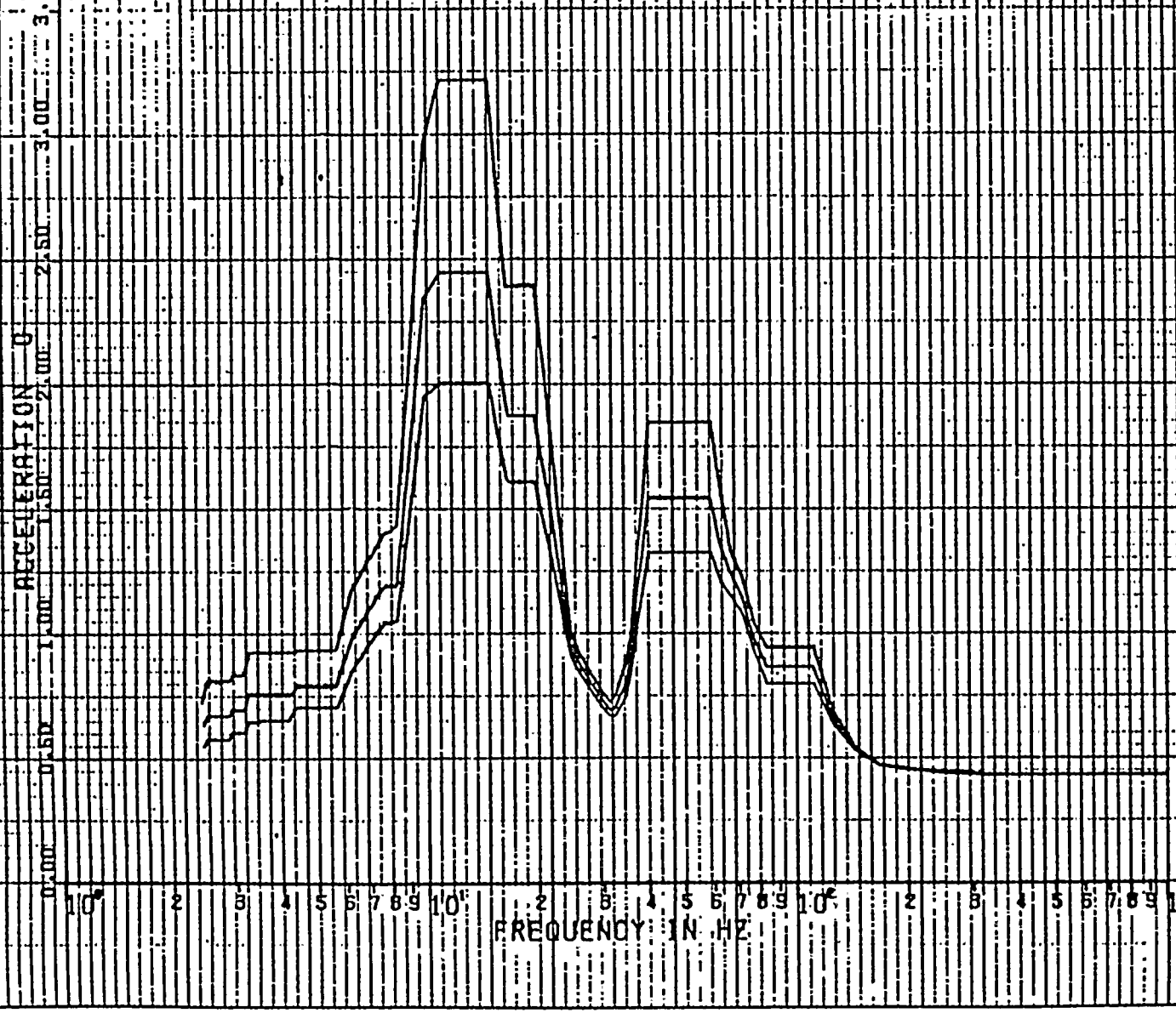
RMS OF ACCELERATION PRIMARY CONT. ELEV.302.50 FT)

MS 1747

MICHAEL K. OO

DISK CURVE SET NO.3 VER DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 22 32 & 42
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 33

0000000026

PSPECTRA VER 01 LEV 08 UP[illegible]ONDITION 24 JAN 1988

NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12[illegible] MS-1746-0

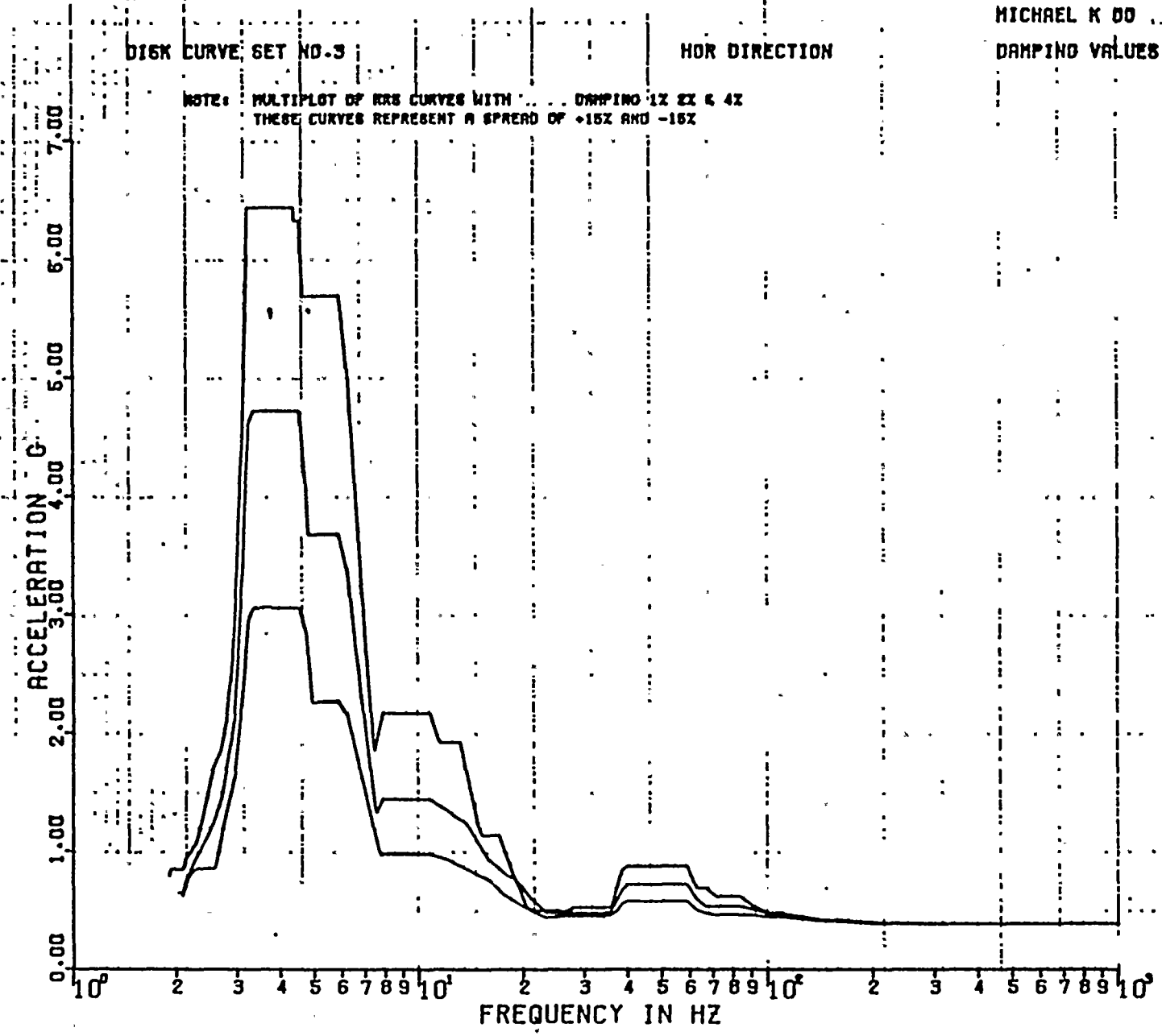
RRS OF ACCELERATION PRIMARY CONT. (ELEV.302.50 FT)

MS 1746

MICHAEL K DO

DISK CURVE SET NO.3 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 33

PSPECTRA VER 01 LEV 08 UPE[illegible]NDITION 24 JAN 1989

NIAGARA MOHAWK-NINE MILES POINT UNIT 2-J.O.12[illegible] MS-1746-0

RRS OF ACCELERATION PRIMARY CONT. (ELEV.302.50 FT)

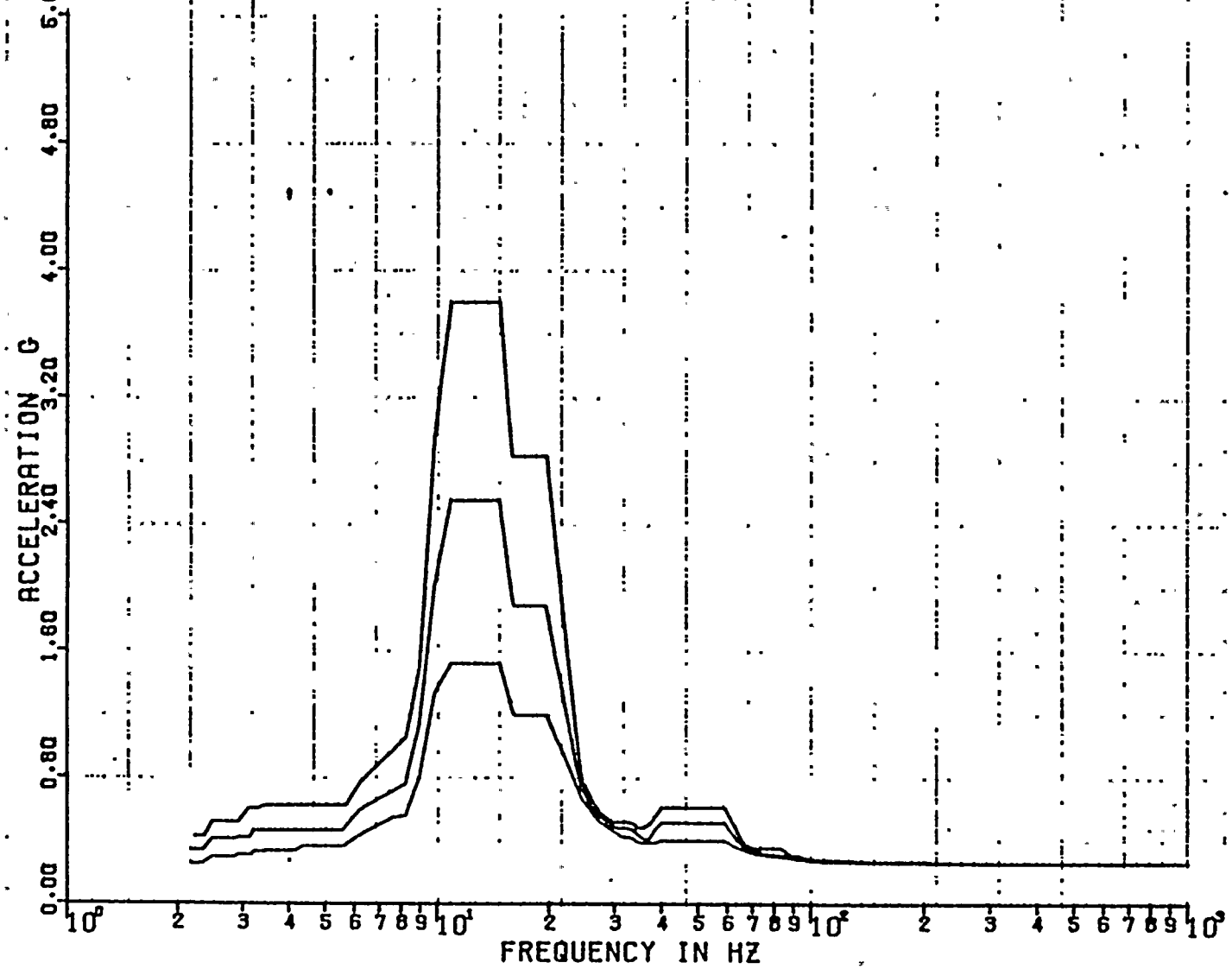
MS 1746

MICHAEL K DO

DISK CURVE SET NO.3 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 33

PSPECTRA VER 01 LEV 08 FRUI CONDITION 26 JAN 1988

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12 MS-1747-0

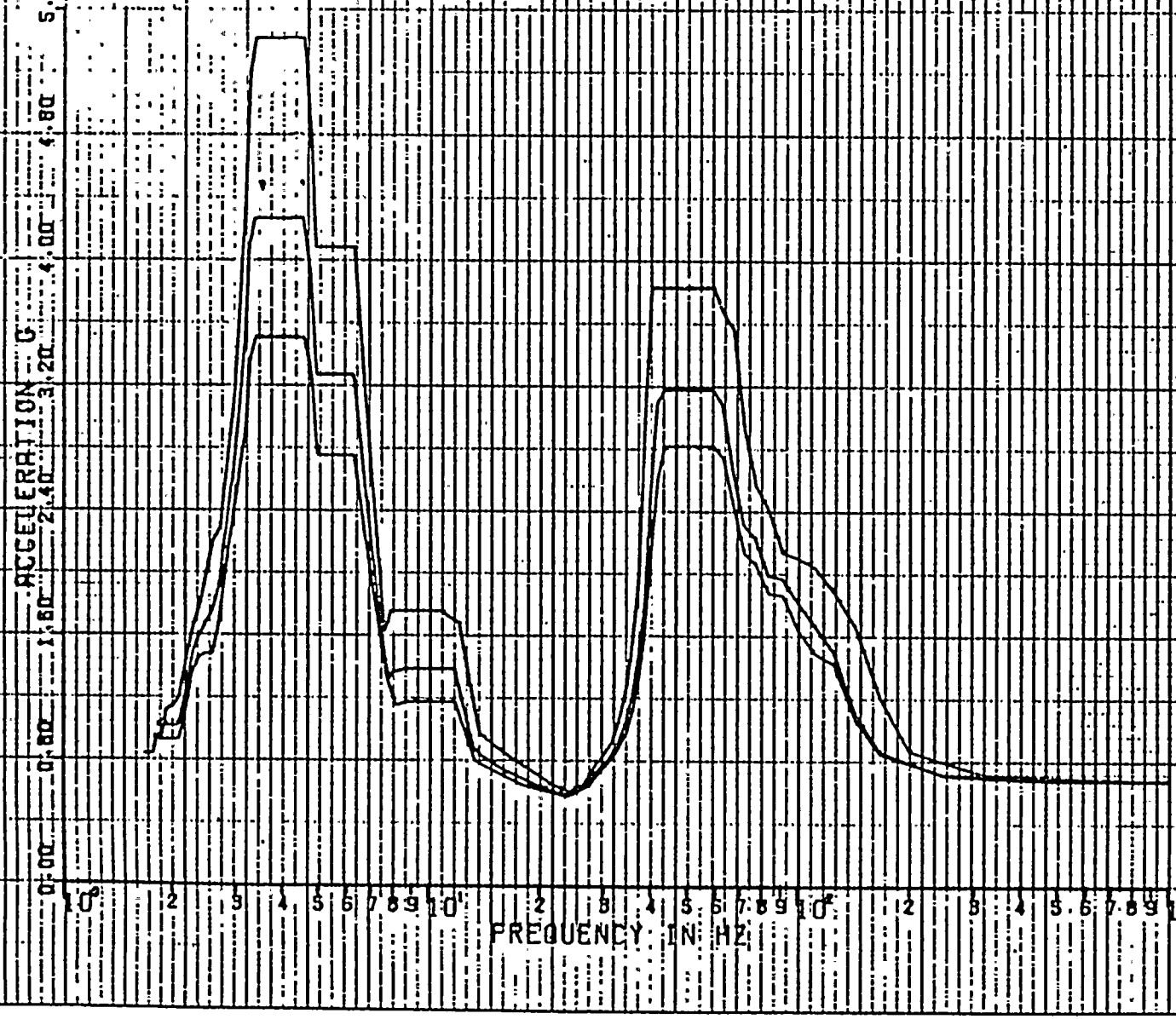
RRS OF ACCELERATION PRIMARY CONT (ELEV 206.69 FT)

MS 1747

MICHAEL R. DO

DISK CURVE SET NO.4 HOR DIRECTION DAMPING VALUES = 0.020 0.040 0.060

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2X 5X & 4X
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 34

0000000027

SPECTRA: VER. 01 LEV. 08 FAUL CONDITION 26 JAN 1983

MIAGARA MOHAWK-NINE MILES POINT UNIT-2 0.01Z MS-1747-0

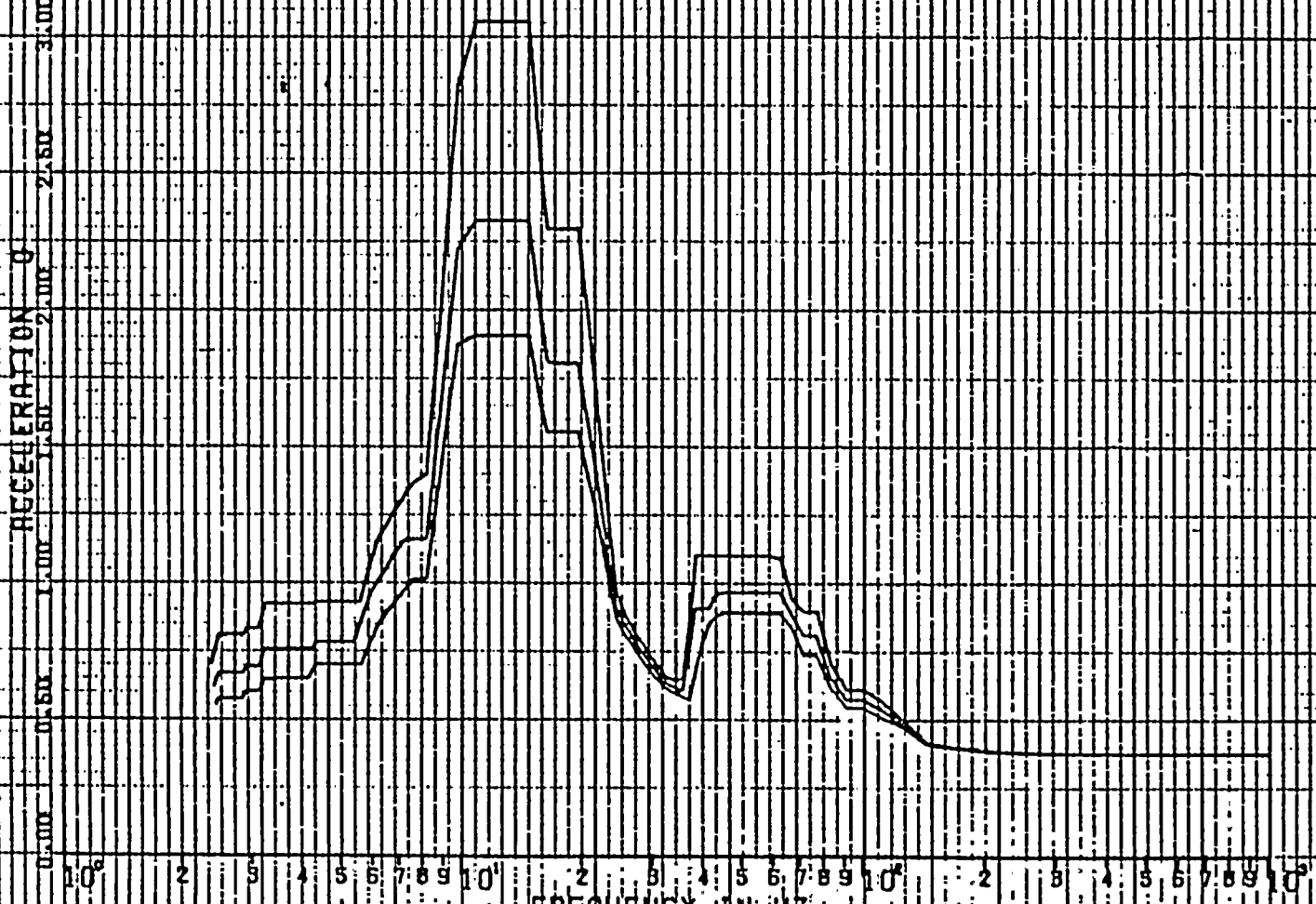
RRS OF ACCELERATION. PRIMARY CONT. (ELEV 286.83 FT)

MS 1747

MICHAEL K. MO

DISK: CURVE SET NO.4 VER. DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2%,5% ,14%
THESE CURVES REPRESENT A SPACING OF +10% AND -10%



REF 34

S2000000025

PSPECTRA VER 01 LEV 08 UP[illegible]NDITION 24 JAN 1988

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.121.. MS-1746-0

RMS OF ACCELERATION PRIMARY CONT. (ELEV 286.83 FT)

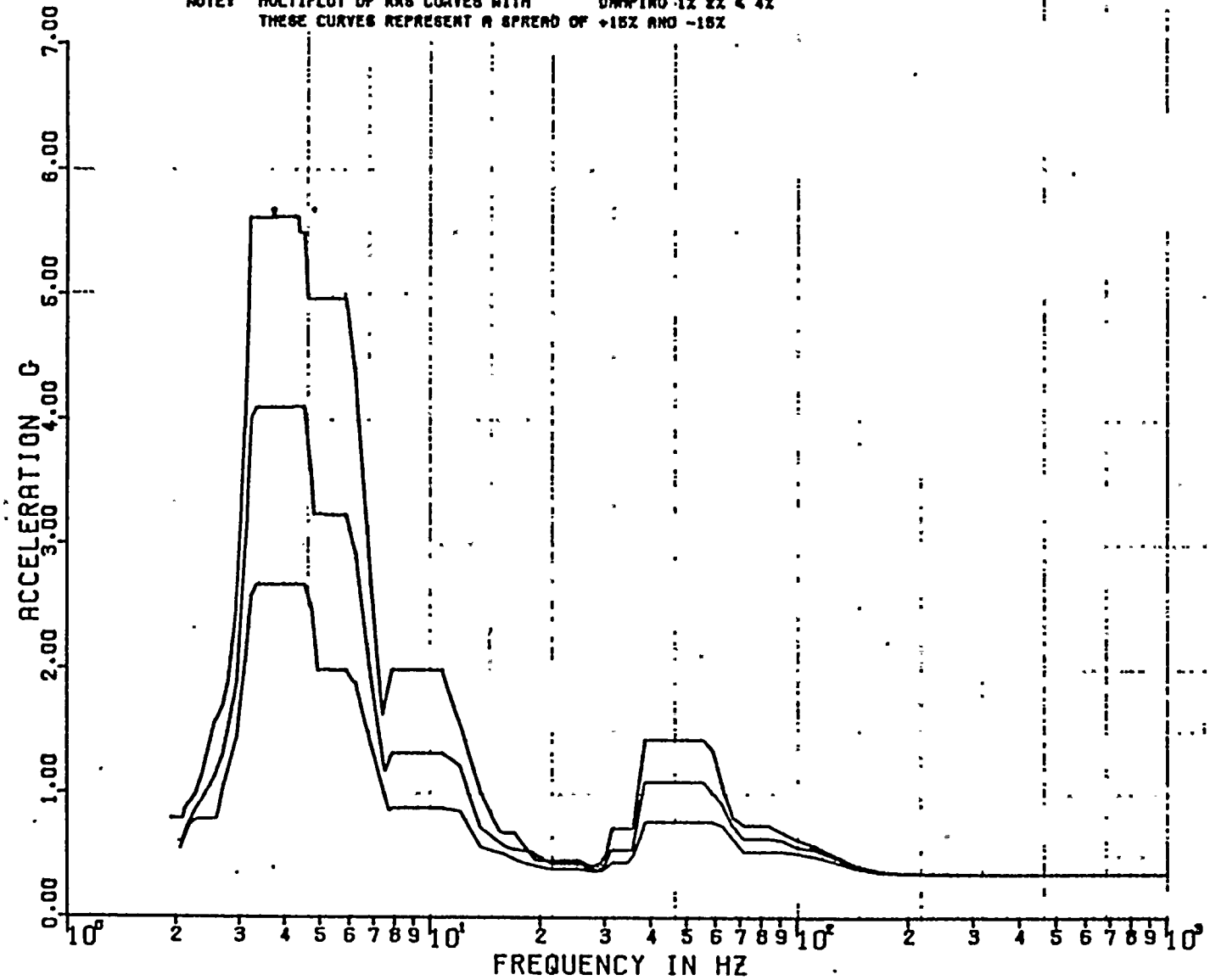
MS 1746

MICHAEL K DO

DISK CURVE SET NO.4 HOR DIRECTION

DAMPING VALUES : 0.010
0.020
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 34

PSPECTRA VER 01 LEV 08 UPSE[illegible]NDITION 24 JAN 1985

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12[illegible] MS-1746-0

RRS OF ACCELERATION PRIMARY CONT. (ELEV 286.83 FT)

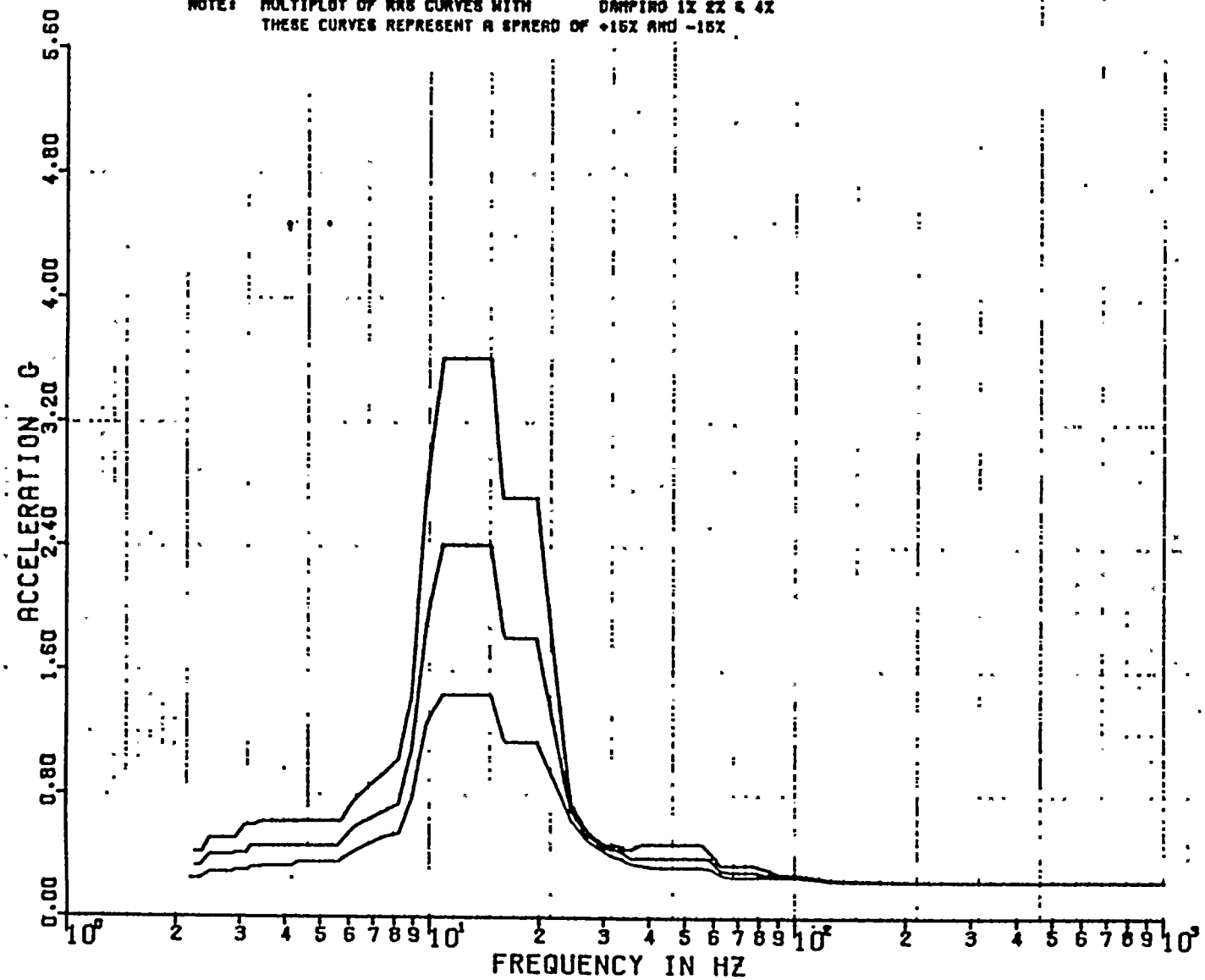
MS 1746

MICHAEL K OO

DISK CURVE SET NO.4 . VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 34

PSPECTRA VER 01 LEV 08 FAU[illegible] CONDITION 26 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 U.O.I. MS-1747-0

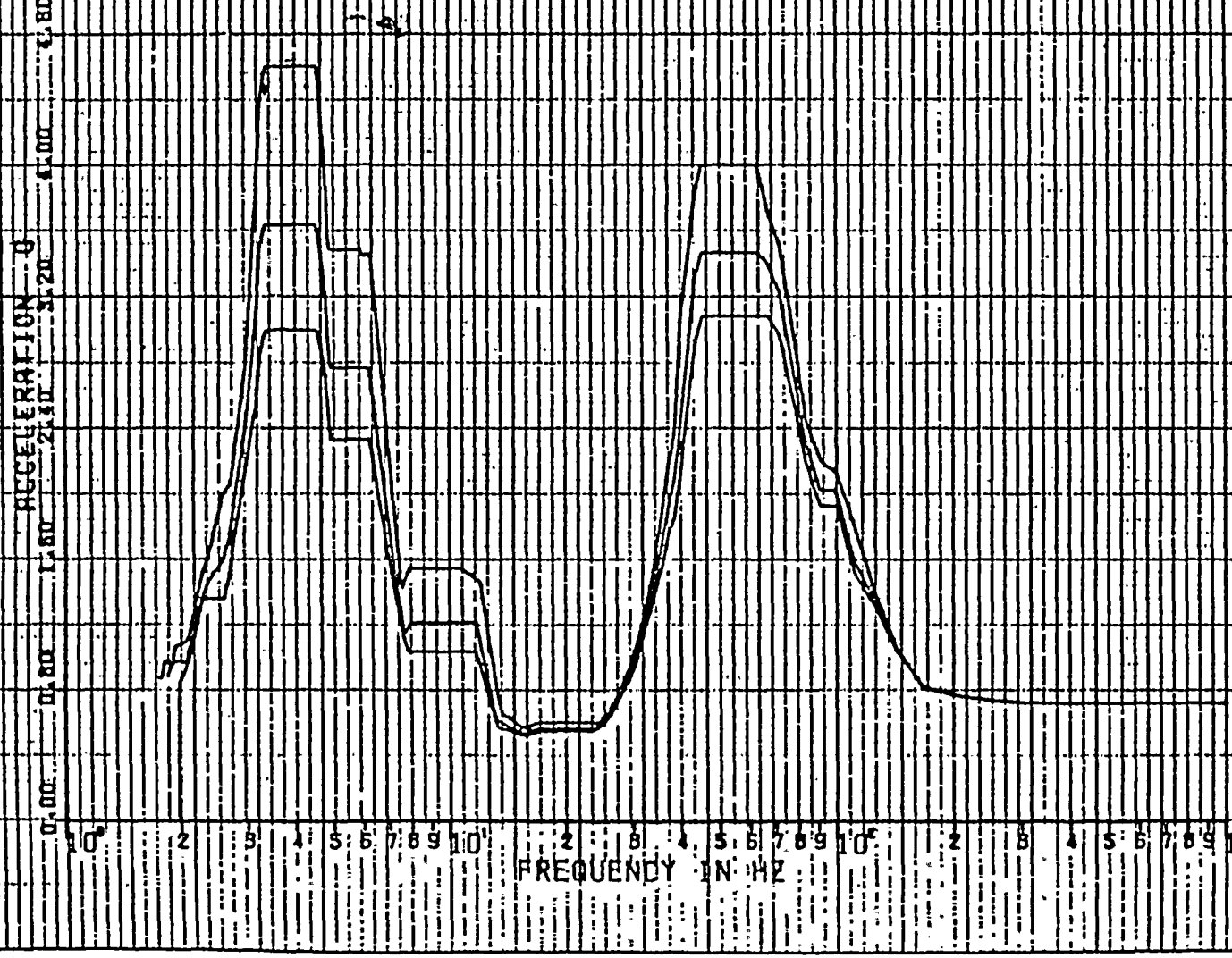
RMS OF ACCELERATION , PRIMARY CONT. (ELEV 271-26 FT)

MS 1747

MICHAEL K. DO

DISK CURVE SET NO.5 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2%,3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 35

0010000029

PSPECTRA VER 01 LEV 08 FAUL CONDITION 25 JAN 1988

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 U.D.L.R. MS+1747+0

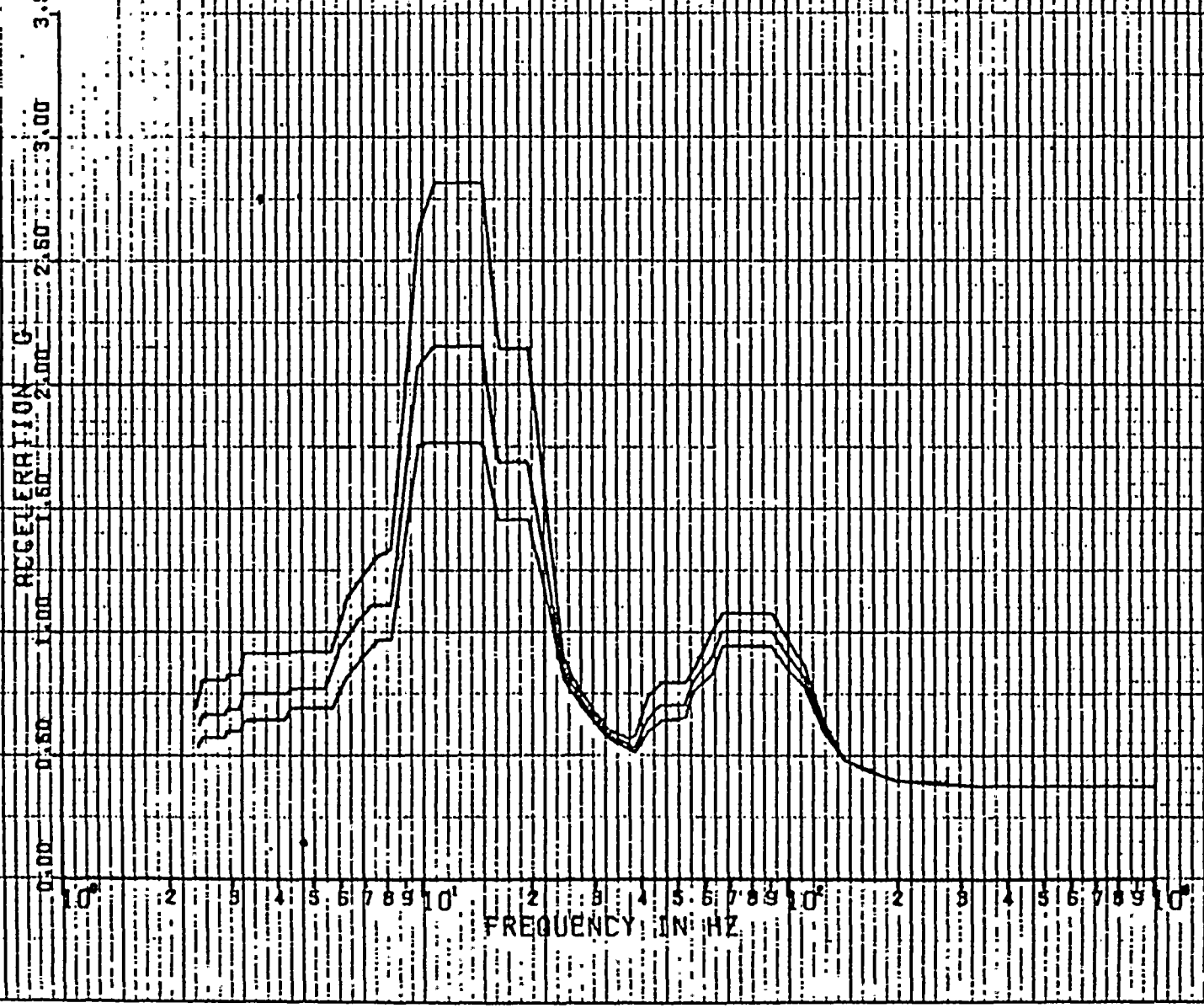
RRS OF ACCELERATION PRIMARY CONT. ELEV 271.0 FT

MS 174.6

MICHAEL K. DO

DISK CURVE SET NO.5 VER DIRECTION DAMPING VALUES = 0.020 0.050 0.080

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING RX 5% & 4%
THICK CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 35

0000000310

PSPECTRA VER 01 LEV 08 U[illegible]NDITION 24 JAN 1988

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12[illegible] MS-1746-0

RRS OF ACCELERATION PRIMARY CONT. (ELEV 271.25 FT)

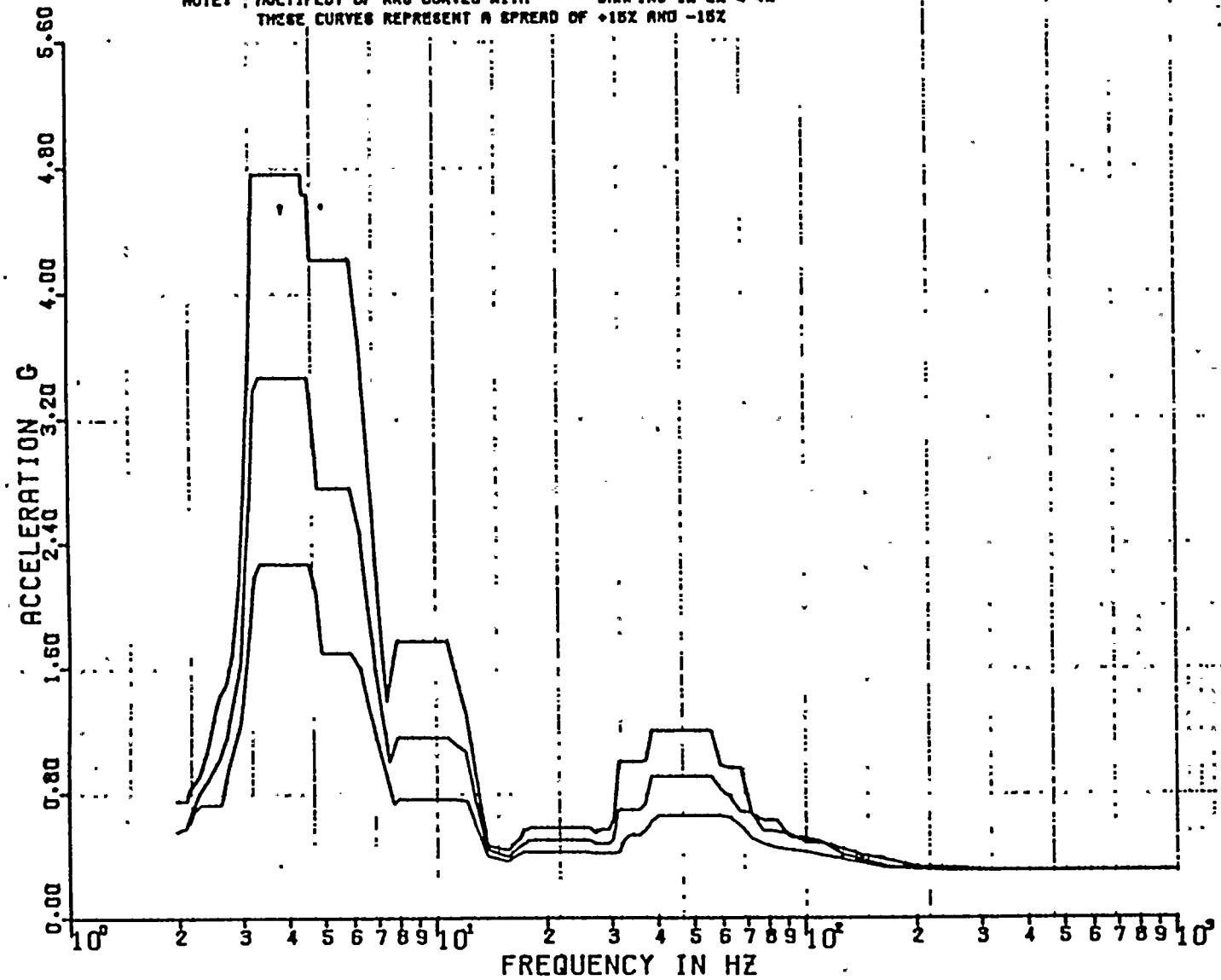
MS 1746

MICHAEL K DO

DISK CURVE SET NO.5 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 35

PSPECTRA VER 01 LEV 08 UPGE[illegible]ITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1746-0

RRS OF ACCELERATION PRIMARY CONT. (ELEV 271.25 FT)

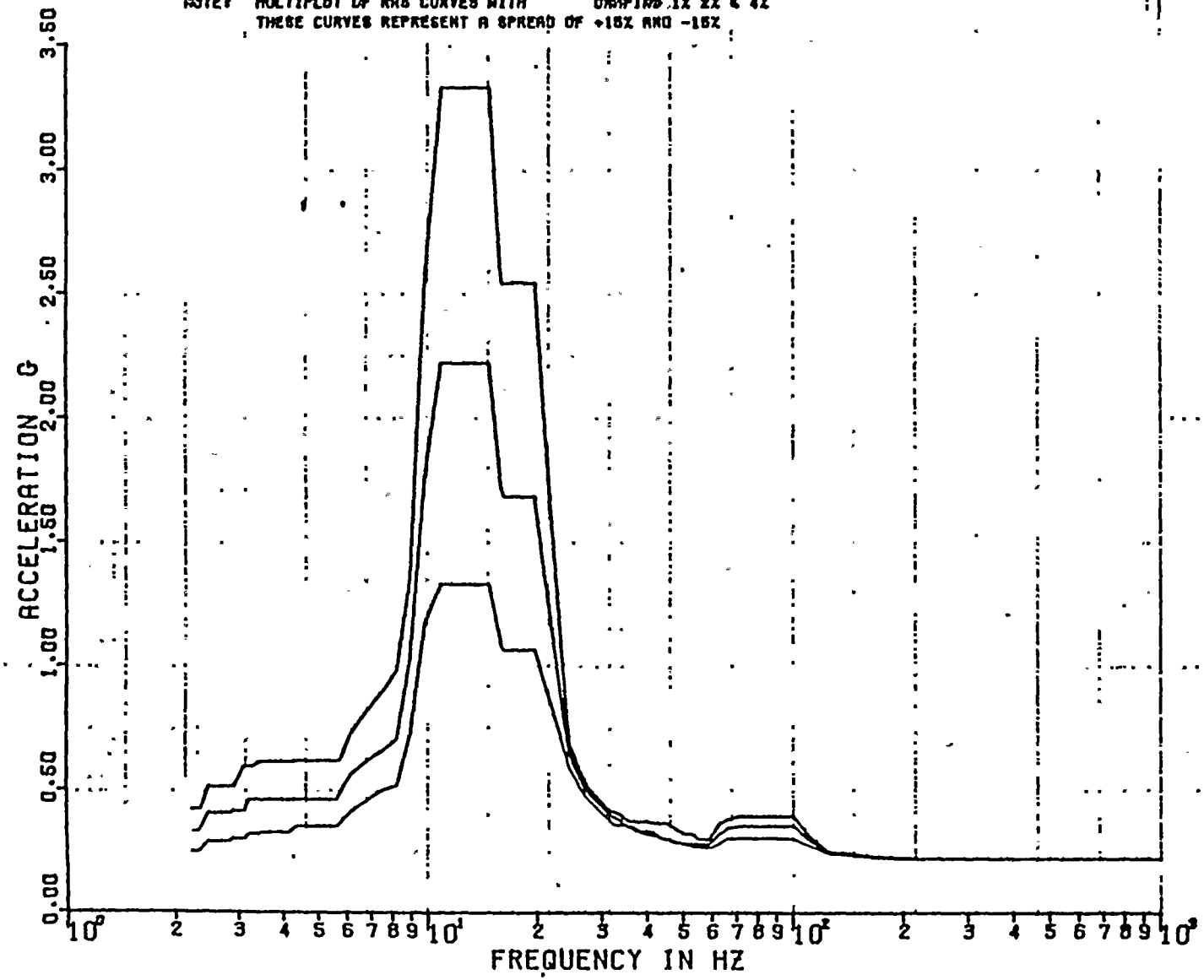
MS 1746

MICHAEL K DO

DISK CURVE SET NO.5 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 35

PSPECTRA VER: 01 LEV: 08 FAULTED CONDITION 25 JAN 1983

MOHAWK-NINE MILES POINT UNIT-2 J.O.1 [illegible] MS-1747-0

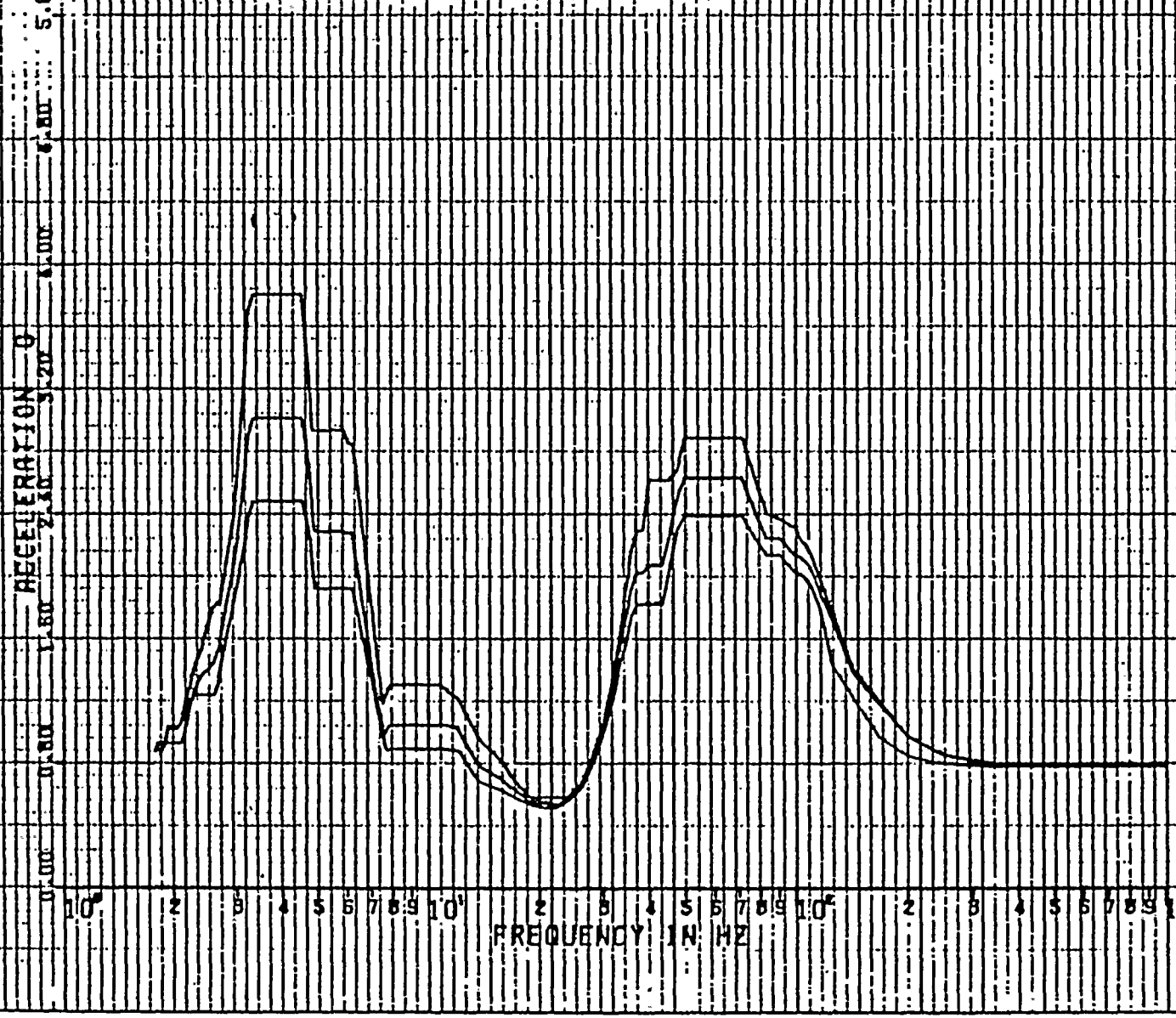
RMS OF ACCELERATION PRIMARY CONT. (ELEV 2[illegible] FT)

MS 174

MICHAEL K DO

DISK CURVE SET: NO.5 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF 3DRS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPACING OF +10% AND -10%



REF 36

0000000031

PSPECTRA VER. 01 LEV 08. FAU[illegible] ONDITION 25 JAN 1985

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12[illegible] MS-1747-0

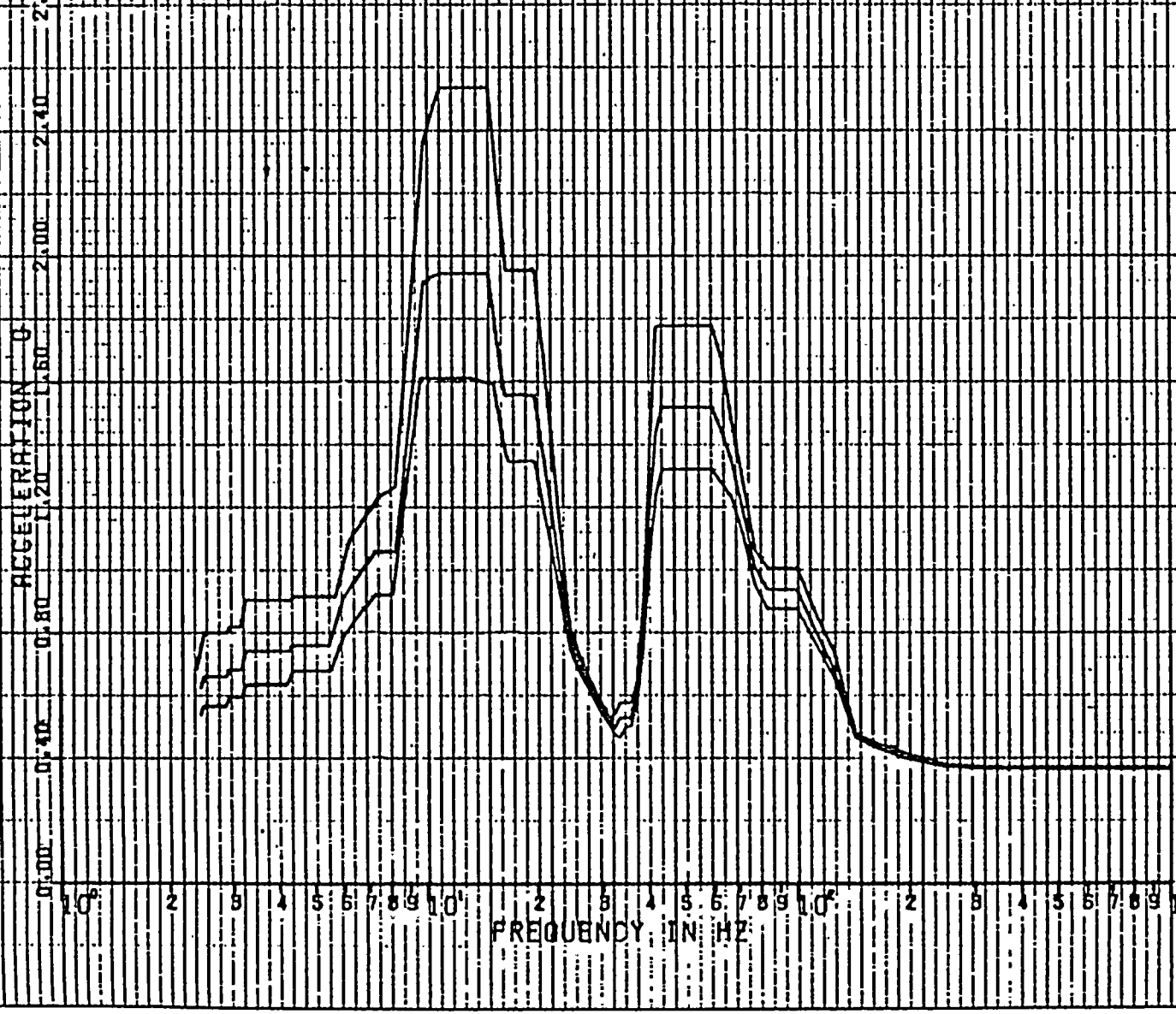
RMS OF ACCELERATION PRIMARY CONT. (ELEV 255.67 FT)

MS 1747

MICHAEL K. OB

DISK CURVE SET NO.6 VER DIRECTION DAMPING VALUES = 0.020
0.050
0.080

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING PX 5% & 4%
THESE CURVES REPRESENT IN SPACES OF +10% AND -5%



REF 36

0030000032

PSPECTRA VER 01 LEV 08 UPSE[illegible] NDITION 24 JAN 1985

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.121[illegible] MS-1746-0

RRS OF ACCELERATION PRIMARY CONT. (ELEV 255.67 FT)

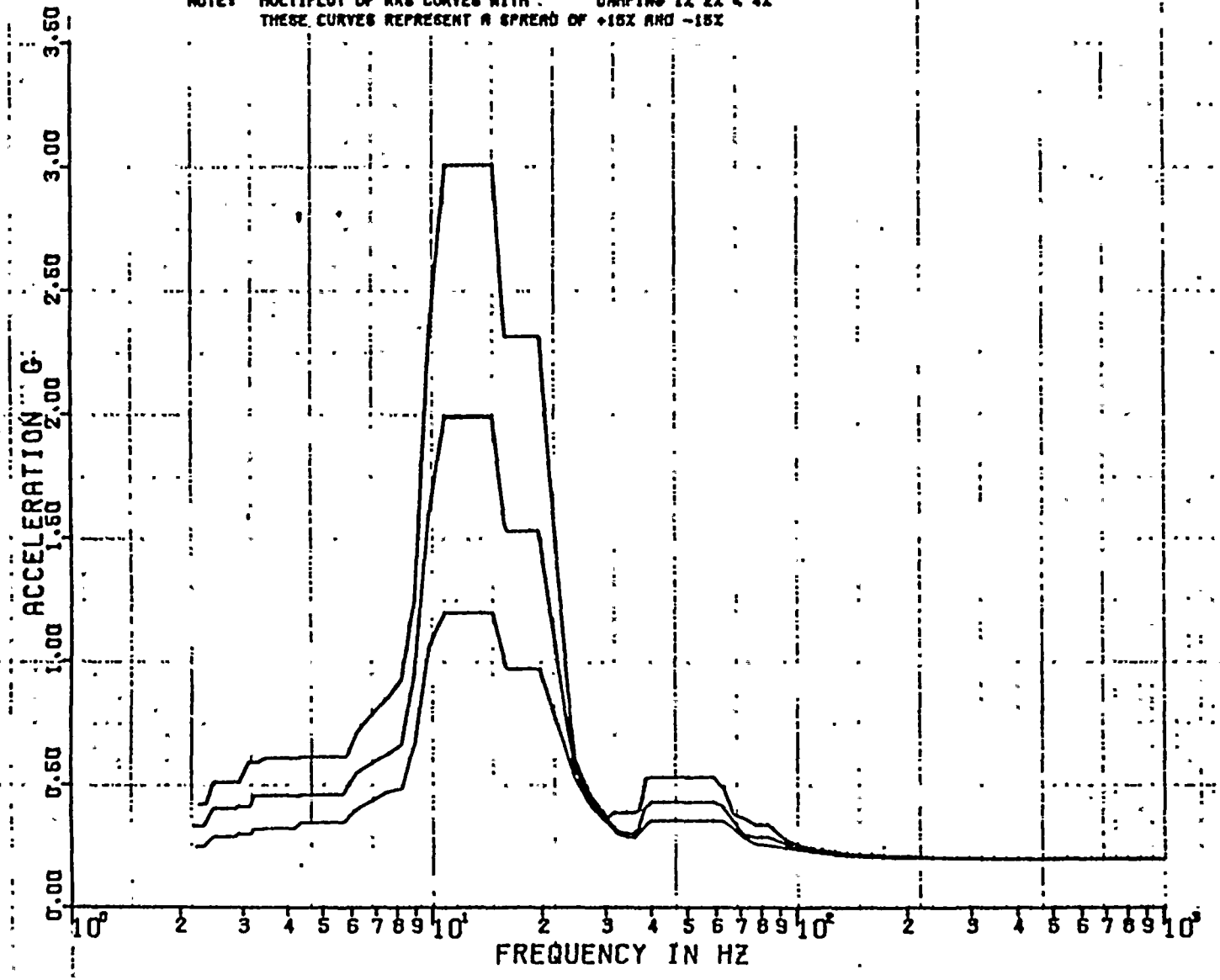
MS 1746

MICHAEL K OO

DISK CURVE SET NO.6 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



Rep 36

PSPECTRA VER 01 LEV 08 UPGE ITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1746-0

RMS OF ACCELERATION PRIMARY CONT. (ELEV 255.67 FT)

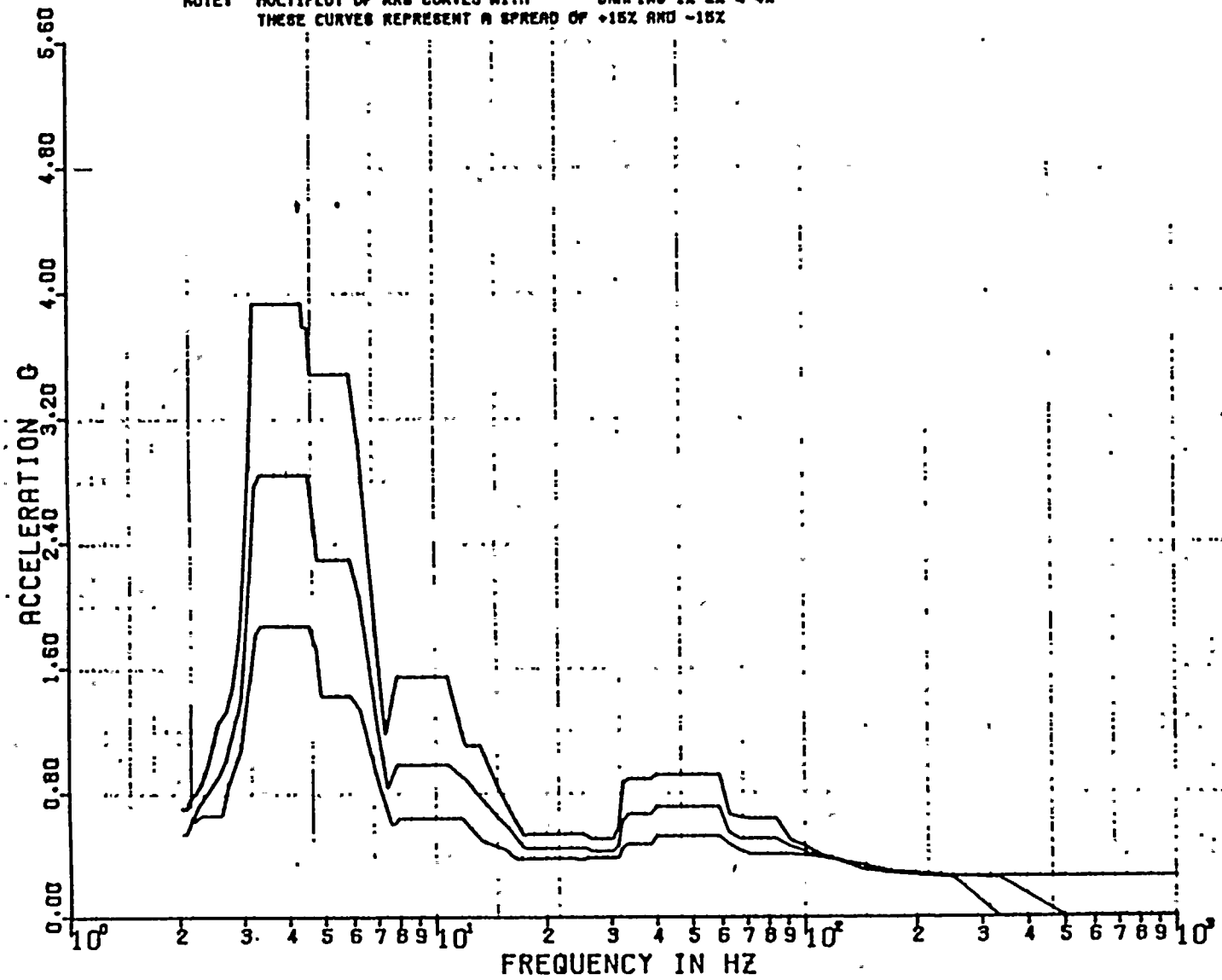
MS 1746

MICHAEL K OO

DISK CURVE SET NO.6 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 36

SPECTRA VER 01 LEV 08 FA[illegible] CONDITION 25 JAN 1983

MIAGARA MOHAWK-NINE MILES POINT UNIT-2 D.O. [illegible] MS-1747-0

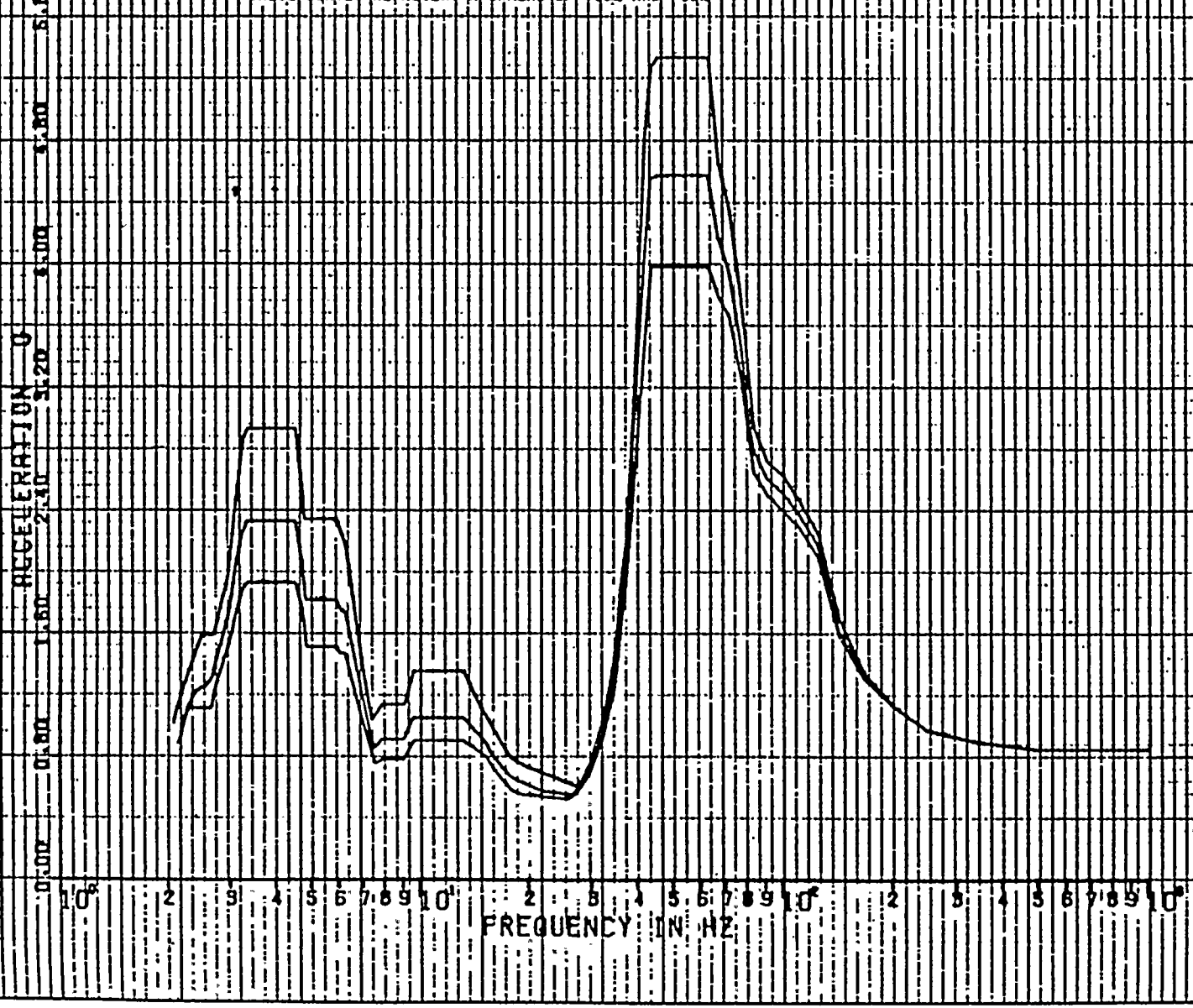
RRS OF ACCELERATION PRIMARY CONT. (ELEV 23610 FT)

MS 1747

MICHAEL K [illegible]

DISK CURVE SET NO.7 HOR DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% & 4%
THICK CURVES REPRESENT A SHIFTING OF +10% AND -10%



REF 37

PSPECTRA VER 01 LEV 00 FAULTED VOITION 26 JAN 1980

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1747-0

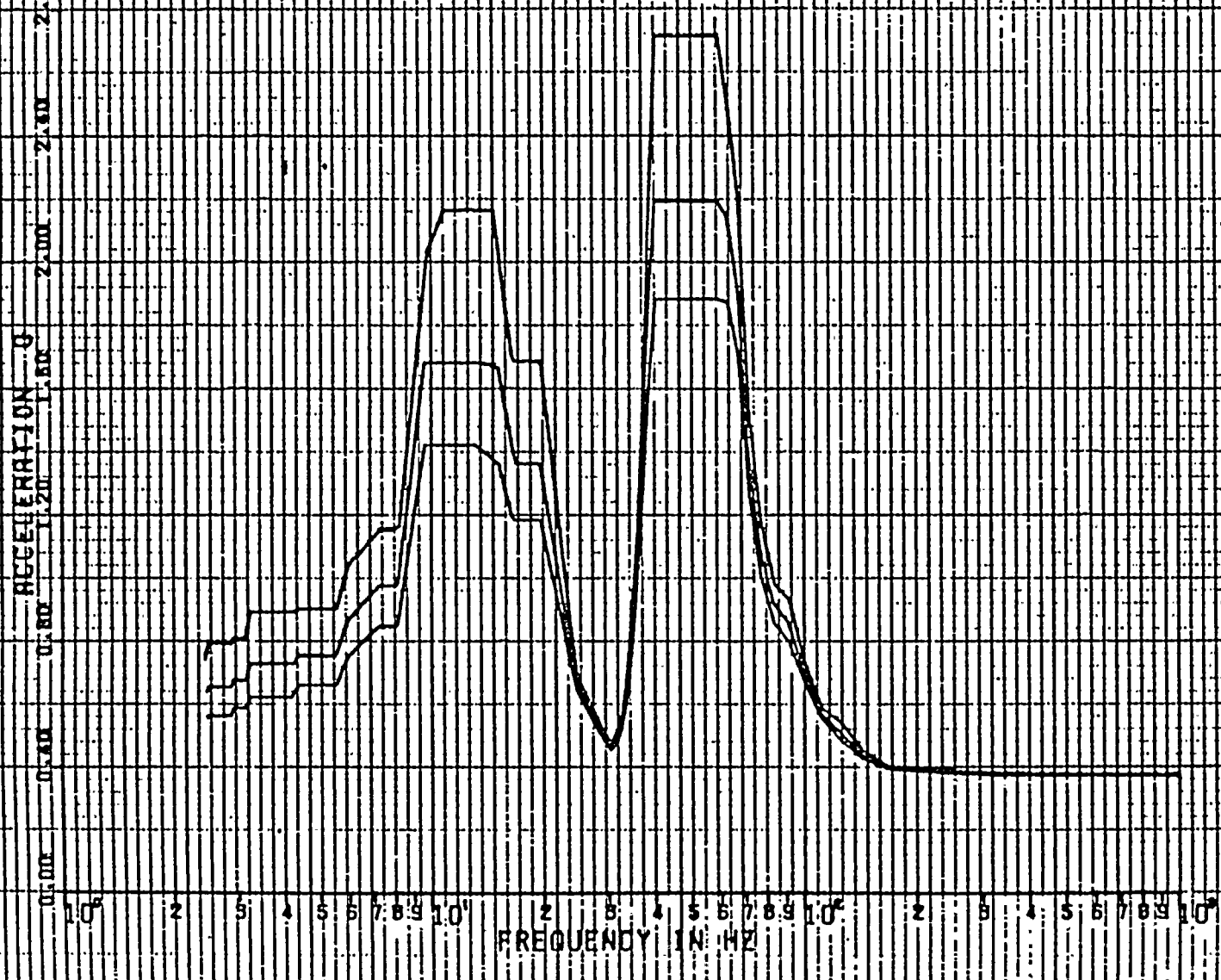
RRS OF ACCELERATION PRIMARY CONT. (ELEV 2081.0 FT)

MS 1747

MICHAEL K. OO

DISK CURVE SET NO.7 VER DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPACING OF +10% AND -10%



REF 37

0000034

PSPECTRA VER 01 LEV 08 UPG[illegible] DITION 24 JAN 1985

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1746-0

RMS OF ACCELERATION PRIMARY CONT. (ELEV 238.0 FT)

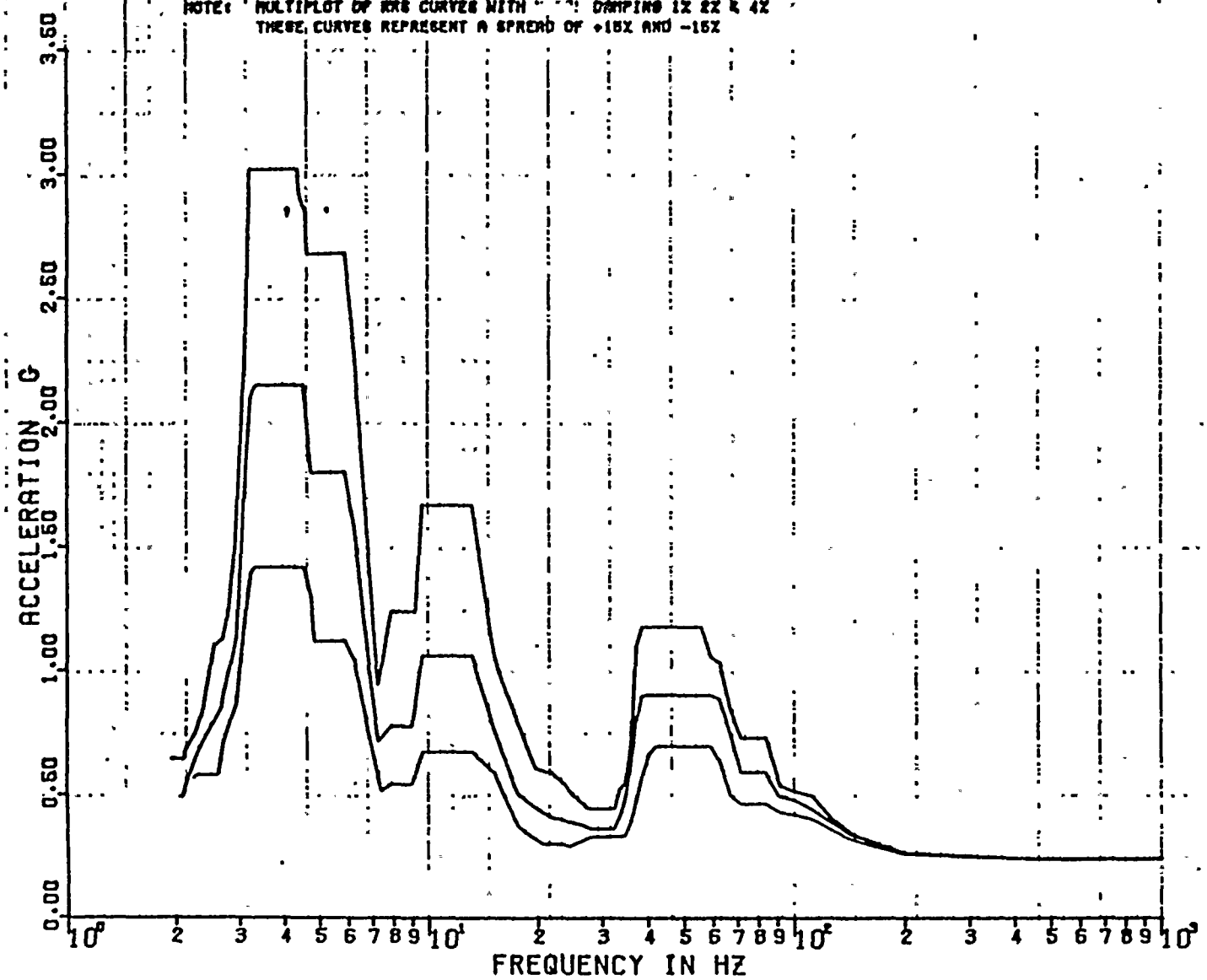
MS 1746

MICHAEL K DO

DISK CURVE SET NO.7 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH [illegible] DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 37

PSPECTRA VER 01 LEV 08 UP[illegible]ONDITION 24 JAN 1985

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.121 MS-1746-0

RRS OF ACCELERATION PRIMARY CONT. (ELEV 250.0 FT)

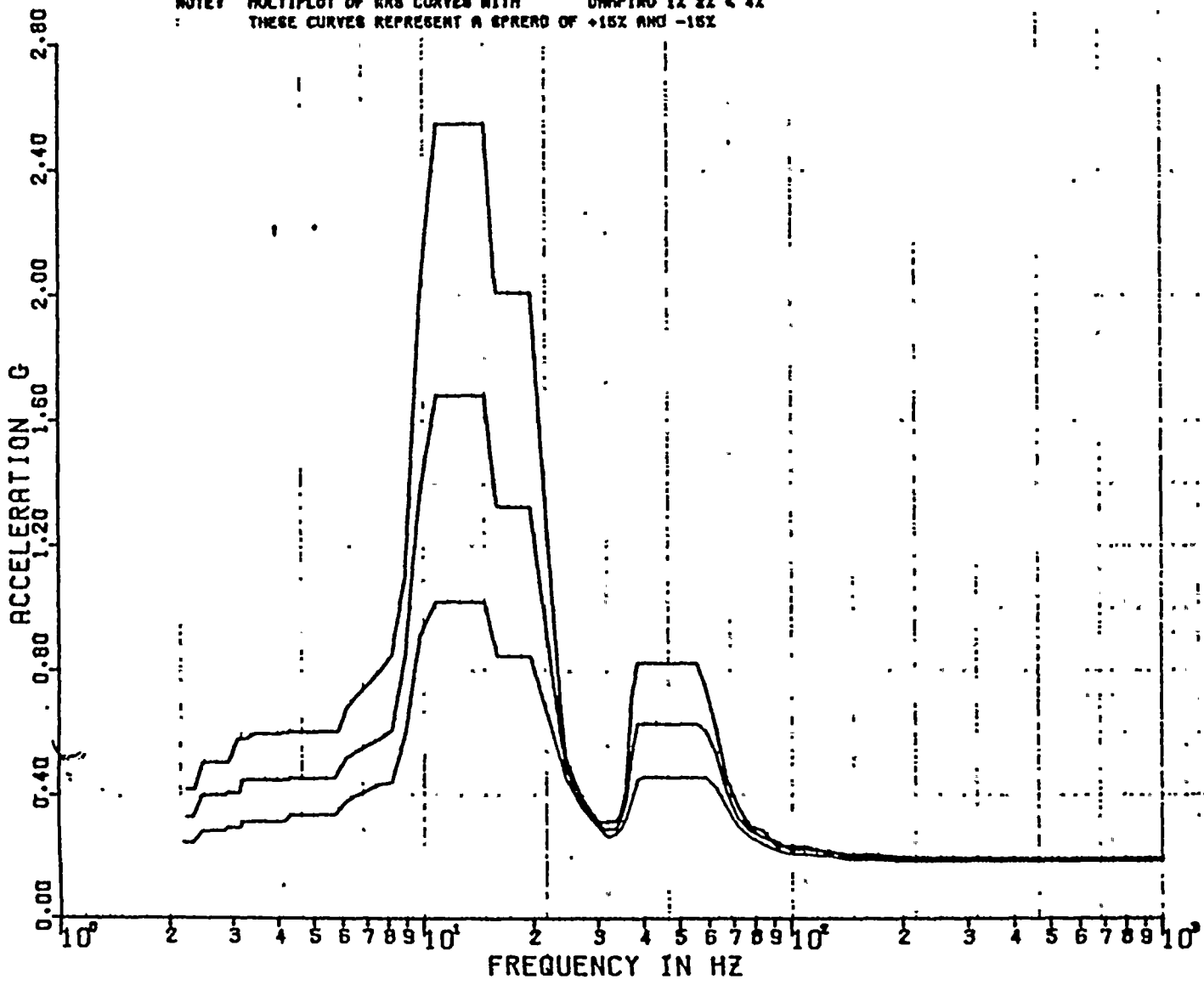
MS 1746

MICHAEL K DO

DISK CURVE SET NO.7 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 37

PSPECTRA VER: 01 LEV: 08 FI[illegible] CONDITION: 25 JAN 1988

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O. [illegible] NS-1747-0

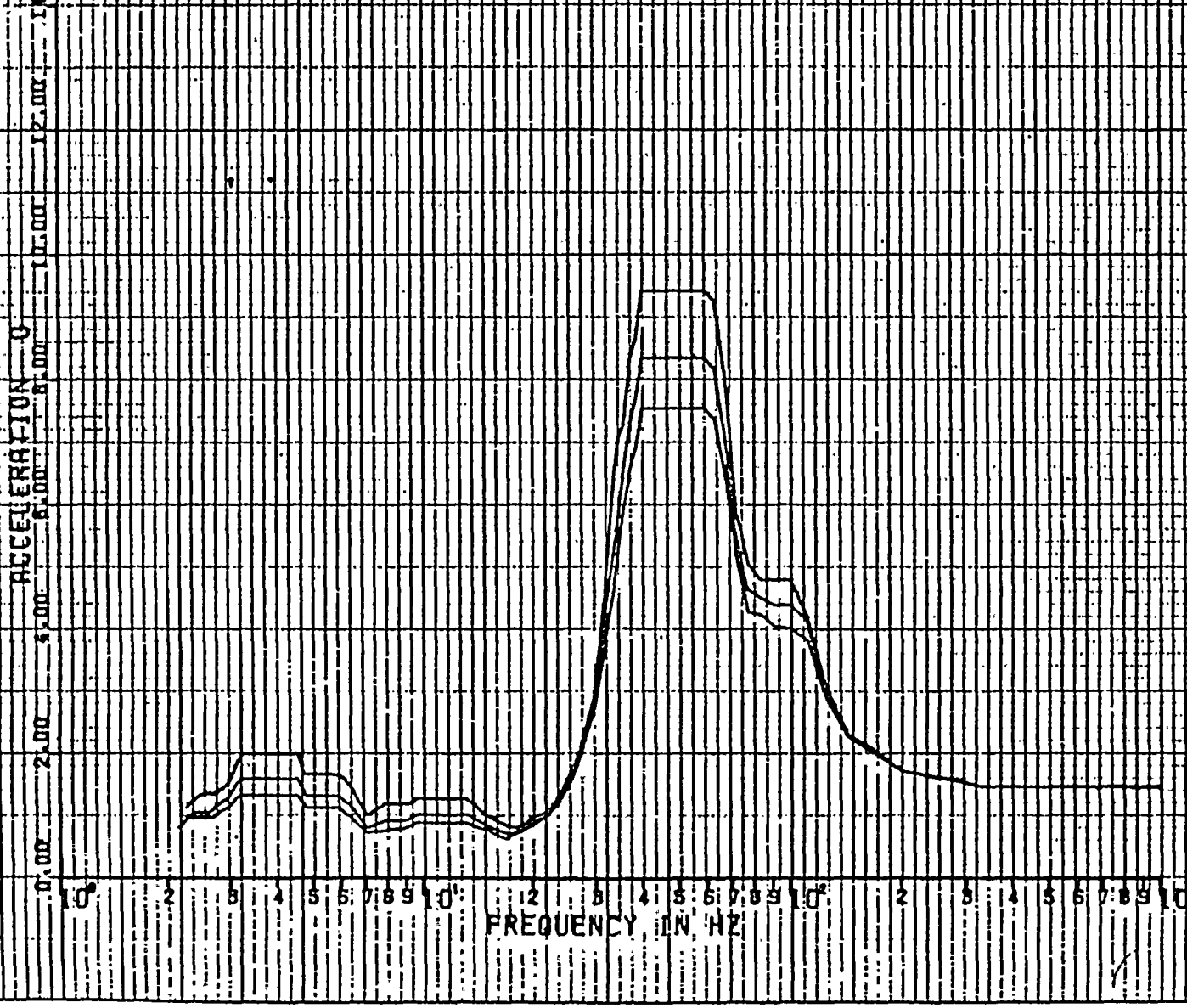
RMS OF ACCELERATION PRIMARY CONT. (ELEV.218.33 FT)

MS 1747

MICHAEL R. [illegible]

DISK CURVE SET NO.5 HOR DIRECTION DAMPING VALUES = 0.020 0.050 0.080

NOTE: MULTIPLICATION OF RMS CURVES WITH DAMPING 2% 5% & 8% THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 38

0[illegible]035

PSPECTRA VER 01 LEV 08 FA CONDITION 25 JAN 1983

MOHAWK-NINE MILES POINT UNIT-2 U.D.I. HB-1747-D

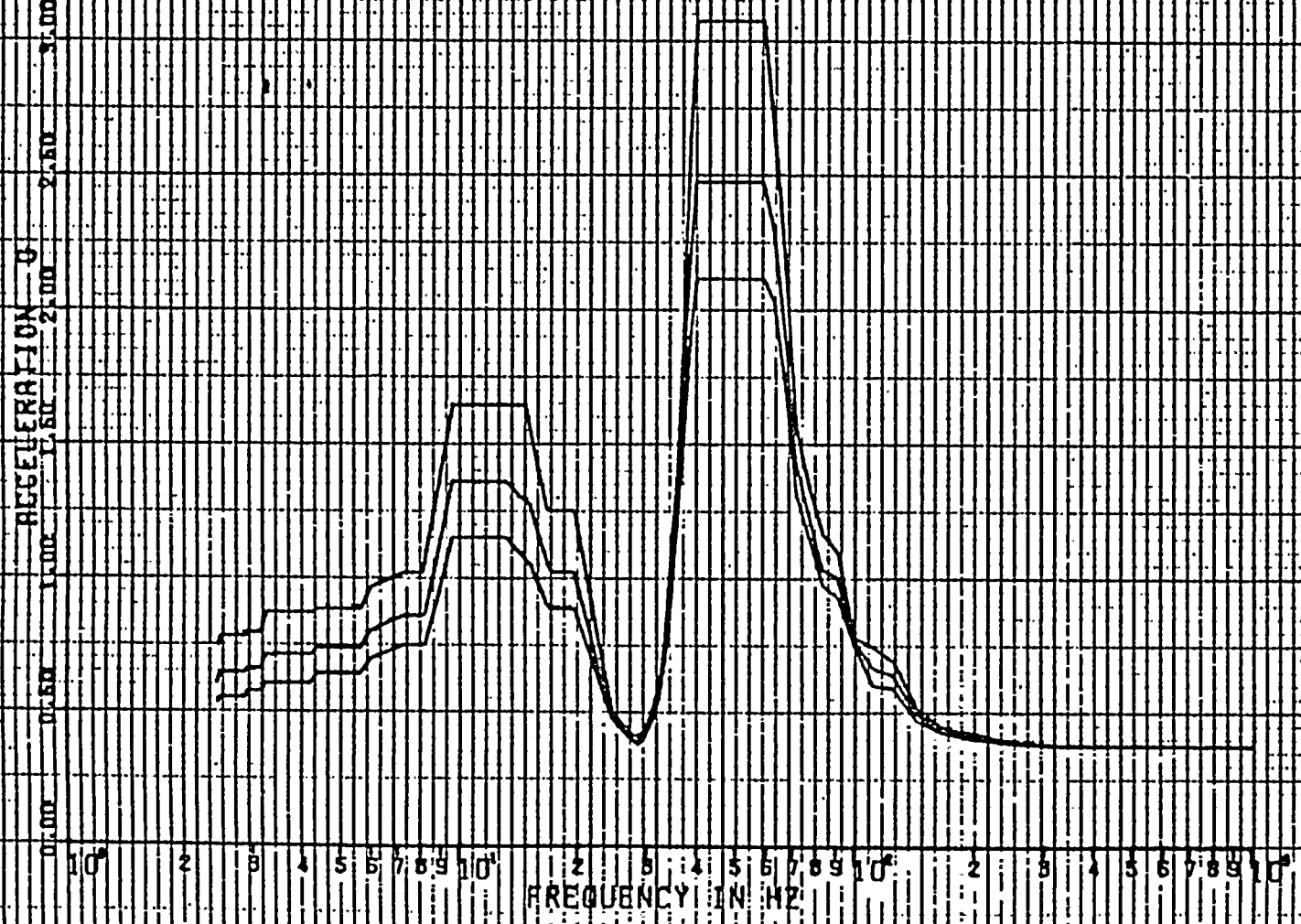
RMS OF ACCELERATION PRIMARY CONT. (ELEV.218.33 FT)

MS 1747

MICHAEL K. 60

DISK CURVE SET NO.8 VER DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF RMS CURVES WITH - SHIFTED BY 1X 2X & 4X
THICK CURVES REPRESENT A SHIFT OF +10% AND -10%



REF 3B

0000000030

PSPECTRA VER 01 LEV 08 UPGE IDITION 24 JAN 1985

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.1217. MS-1746-0

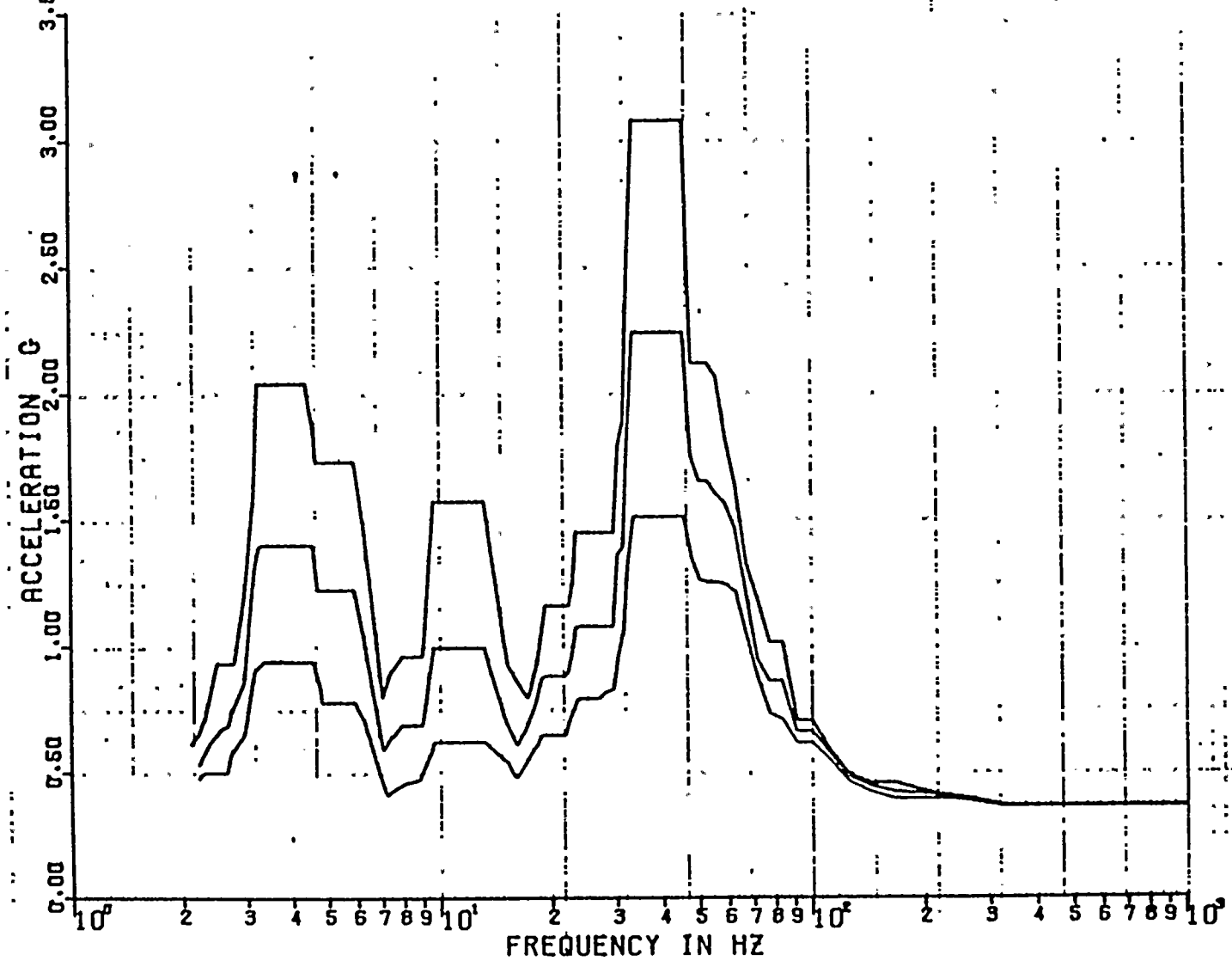
RRS OF ACCELERATION PRIMARY CONT. (ELEV.218.33 FT)

MS 1746

MICHAEL K DO

DISK CURVE SET NO.8 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 38

PSPECTRA VER 01 LEV 08 UI CONDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.11 MS-1746-0

RRS OF ACCELERATION PRIMARY CONT. (ELEV.218.33 FT)

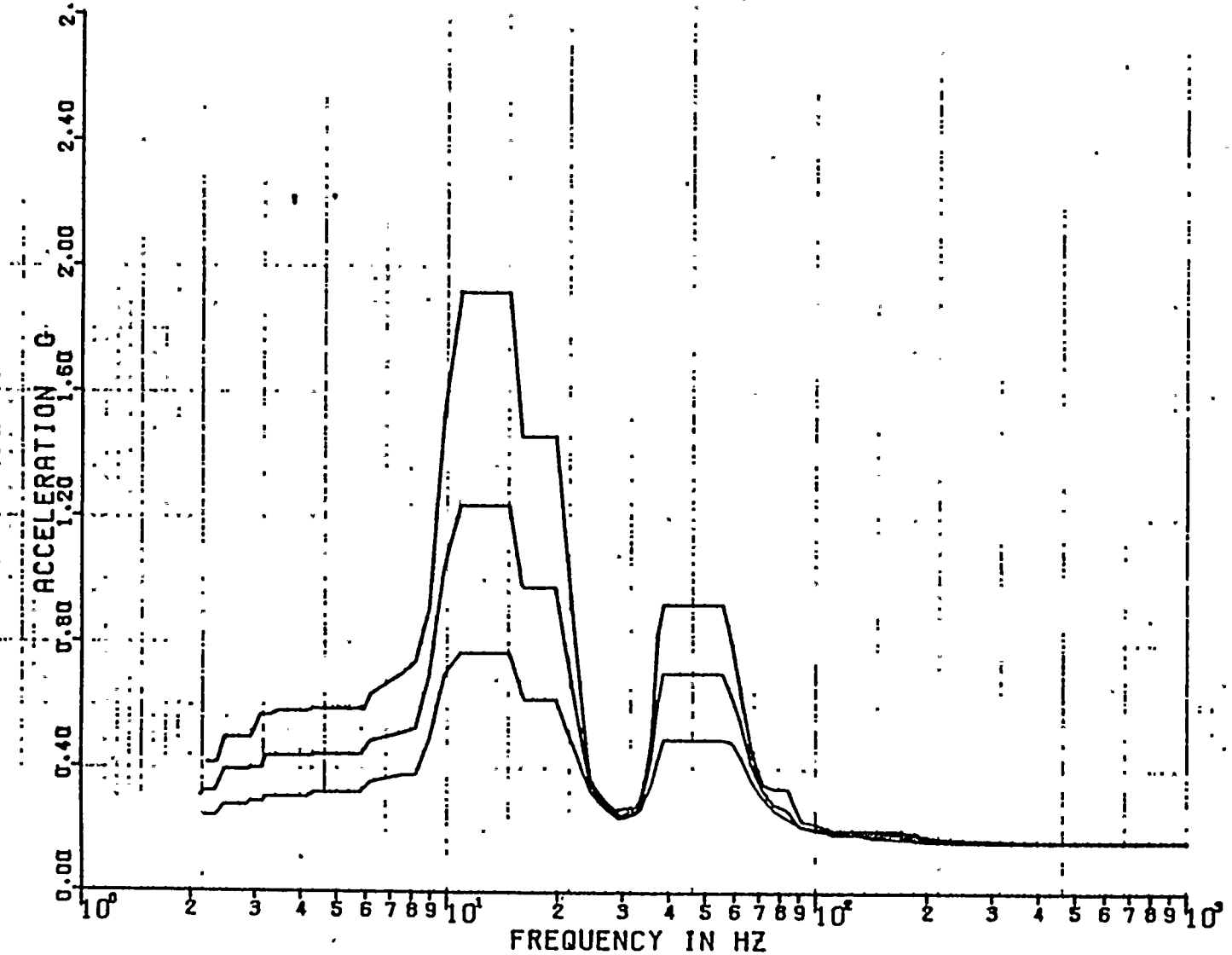
MS 1746

MICHAEL K DO

DISK CURVE SET NO.8 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 38

PSPECTRA VER 01 LEV 08 [illegible]ED CONDITION 25 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 U.O. /7 MS-1747-0

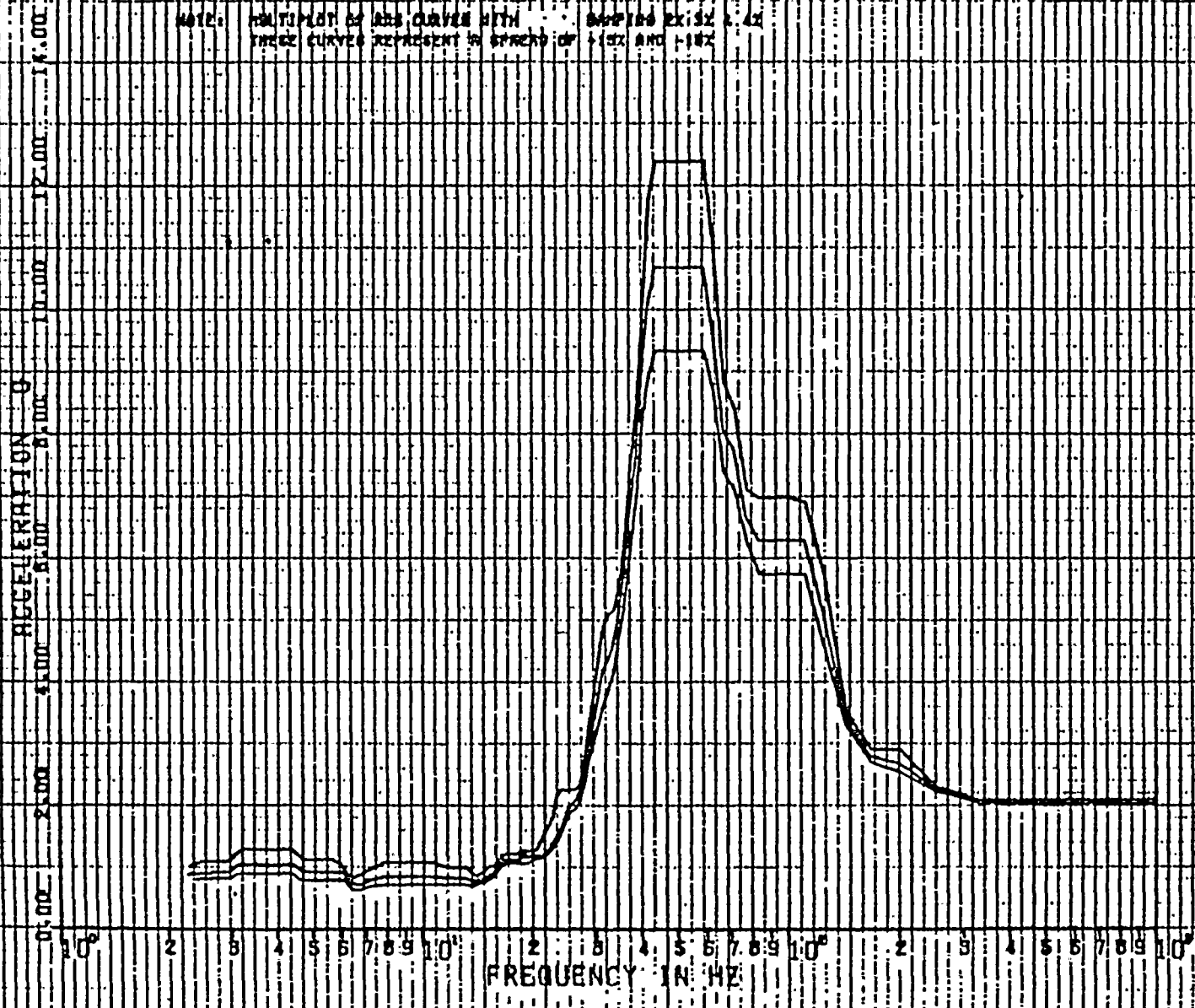
RMS OF ACCELERATION PRIMARY CONT. (ELEV-1361.7 FT)

MS 1747

MICHAEL K. DO

DISK CURVE SET NO.9 HOR DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2%,3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -10%



REF 39

09-1000087

PSPECTRA, VER 01 LEV 08. FRU CONDITION 25 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 U.O.II MS-1747-0

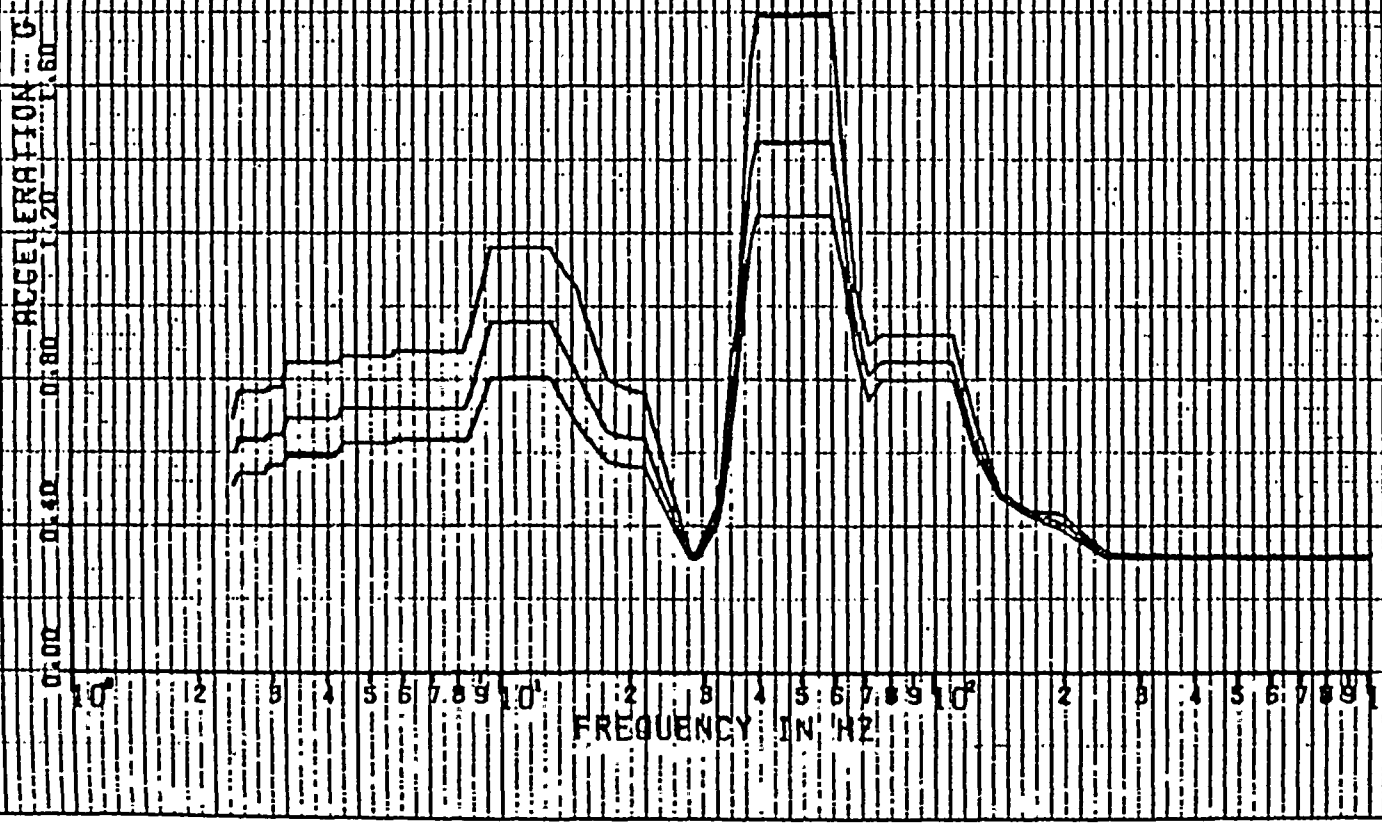
RRS OF ACCELERATION PRIMARY CONT. (ELEV 196.7 FT)

MS 1747

MICHAEL K. GO

DISK CURVE SET NO.9 VER DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A STANDARD OF +15% AND -15%



REF 39

00110000038

PSPECTRA VER 01 LEV 08 UPGE DITION 24 JAN 1988

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.1217. MS-1746-0

RMS OF ACCELERATION · PRIMARY CONT. (ELEV.196.7 FT)

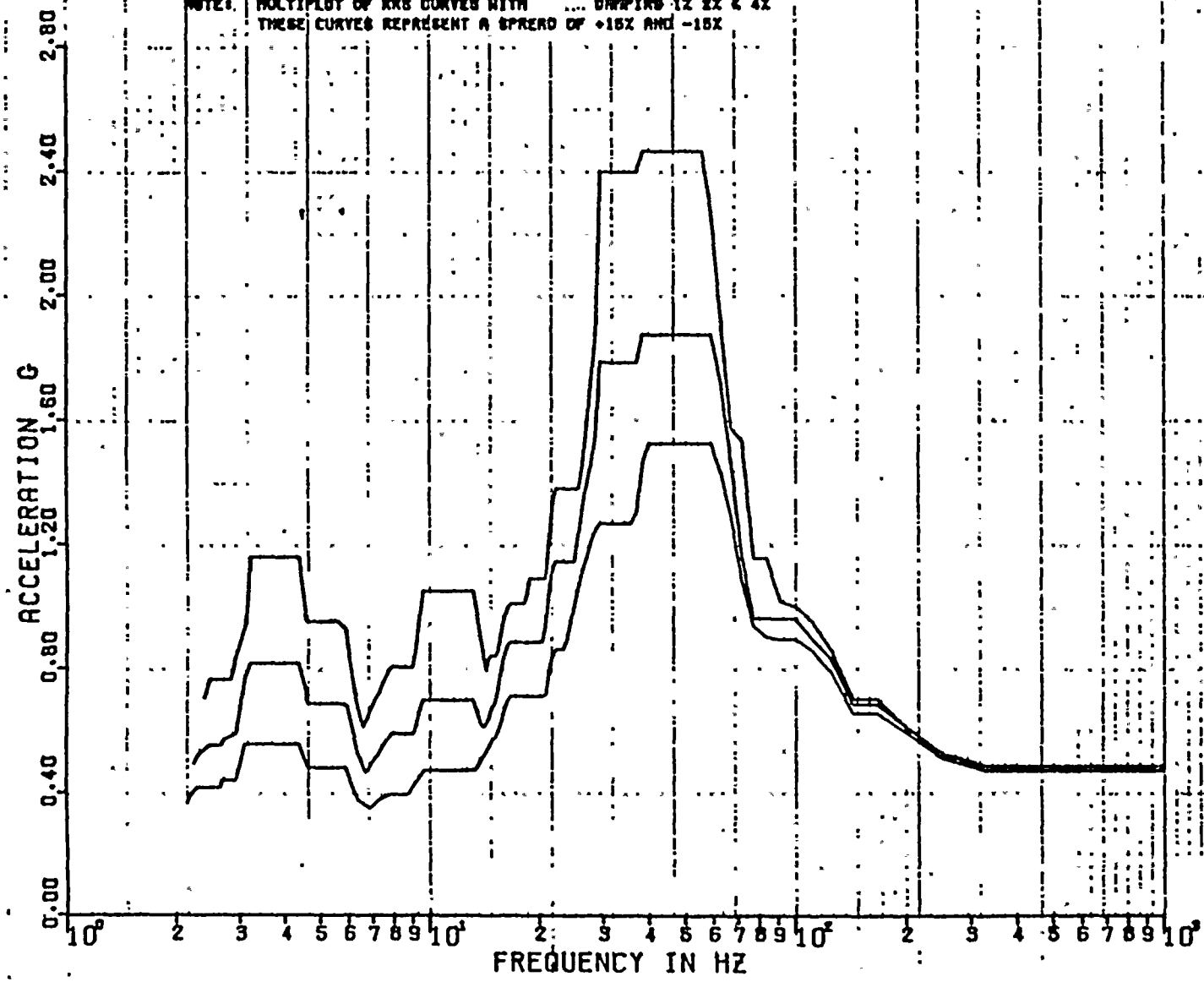
MS 1746

MICHAEL K DD

DISK CURVE SET NO.9 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH .... DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 39

PSPECTRA VER 01 LEV 08 UP[illegible] YDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.1217, MS-1746-0

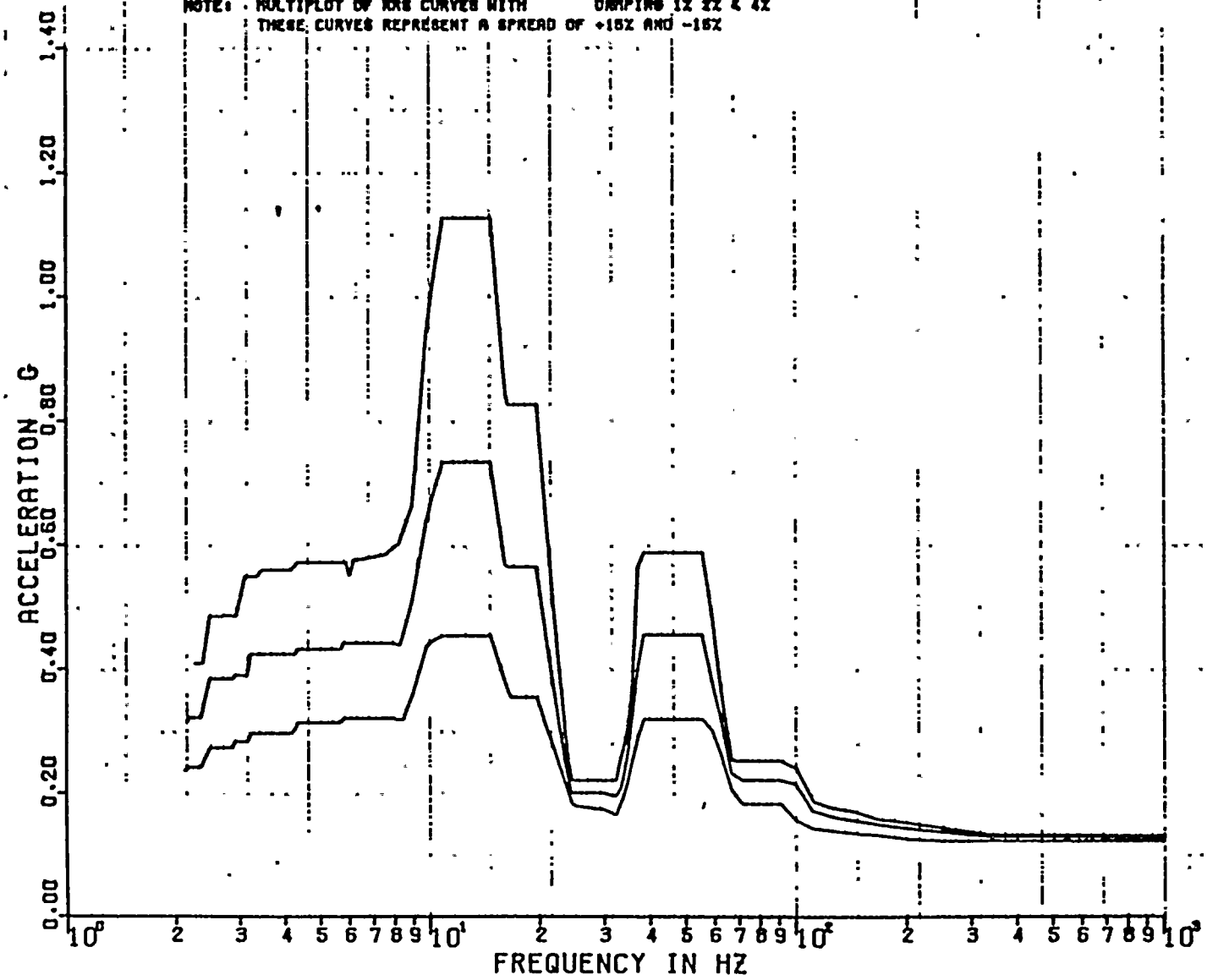
RMS OF ACCELERATION PRIMARY CONT. (ELEV.196.7 FT)

MS 1746

MICHAEL K OO

DISK CURVE SET NO.9 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REP 39

PSPECTRA VER. 01 LEV 00 FAU D CONDITION 26 JAN 1985

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 U.D.1 M6-1747-0

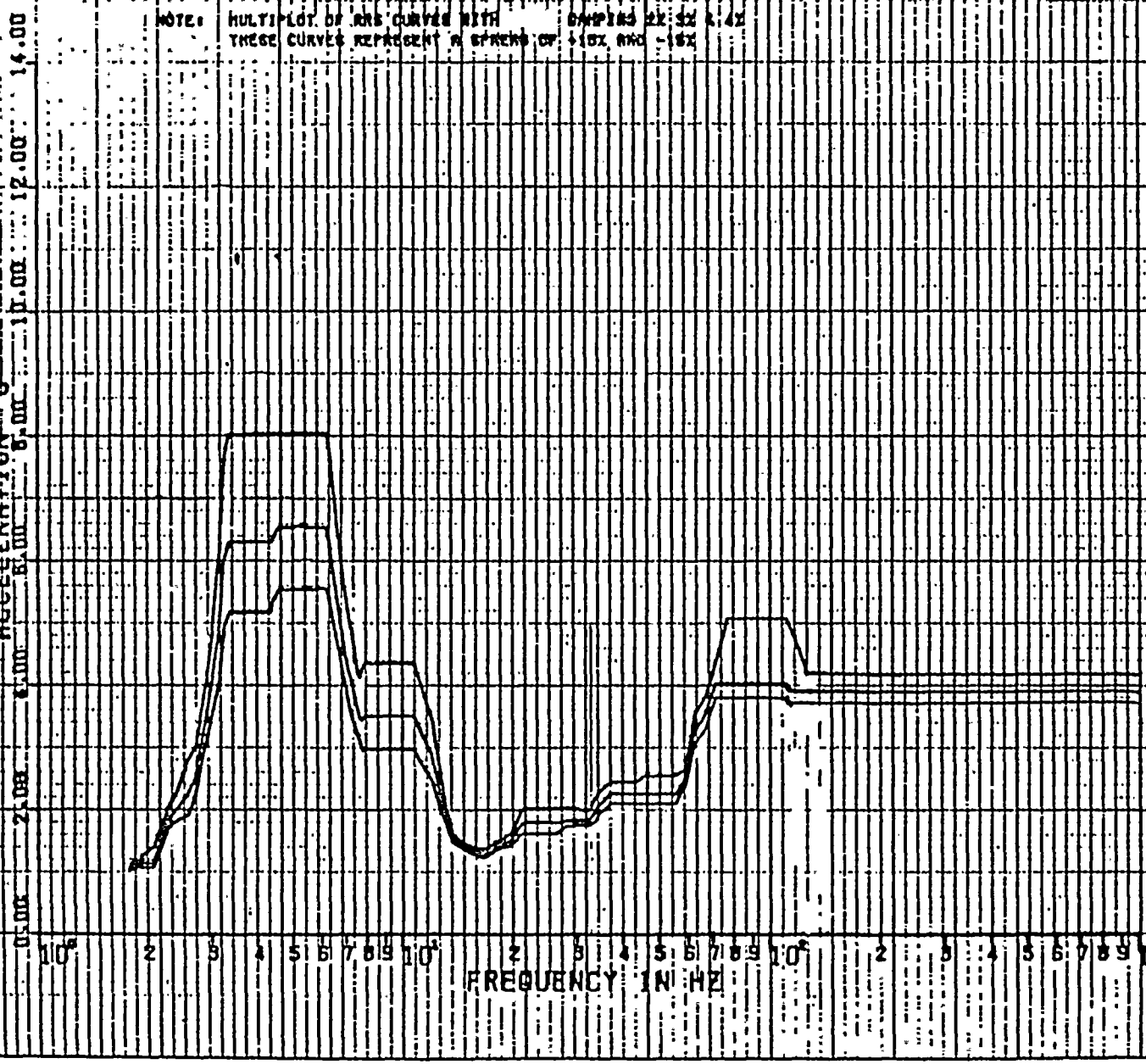
RRS OF ACCELERATION SHIELD WALL (ELEV.311 J.FT)

MS 1747

MICHAEL K. GO

DISK CURVE SET NO.10 HDR DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 40

08310030035

SPECTRA VER 01 LEV 00 FAUL CONDITION 26 JAN 1989

MIRAMAR MOHAWK-NINE MILES POINT UNIT-2 J.O.12 AS-1747-0

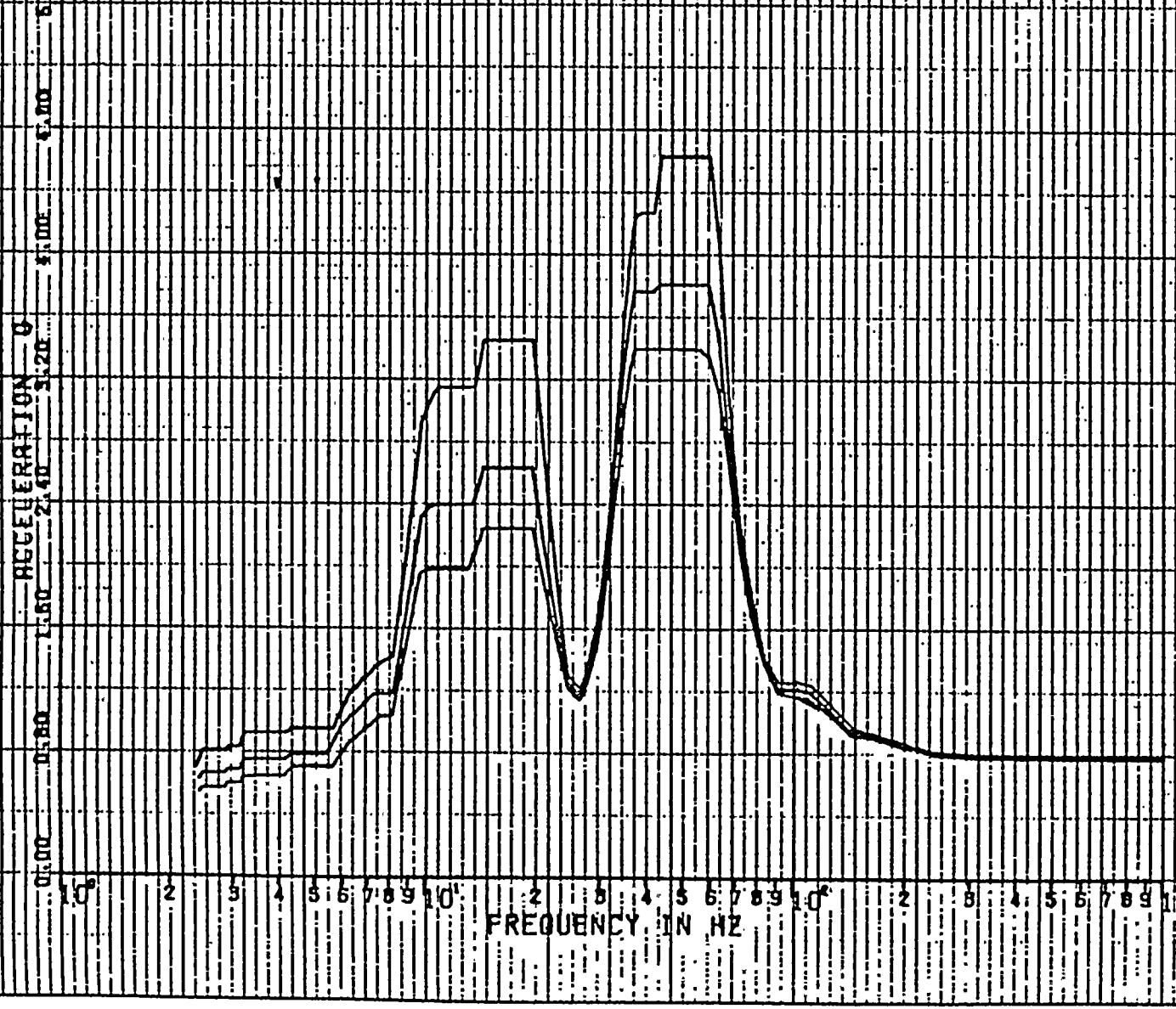
RRS OF ACCELERATION SHIELD WALL (ELEV.315.09 FT)

MS 1747

MICHAEL R. DD

DISK CURVE SET NO.10 VER DIRECTION DAMPING VALUES = 0.020 0.050 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING EX SZ 4.42
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 40

0000000

PSPECTRA VER 01 LEV 08 UPS NDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.121 MS-1746-0

RMS OF ACCELERATION SHIELD WALL (ELEV.315.09 FT)

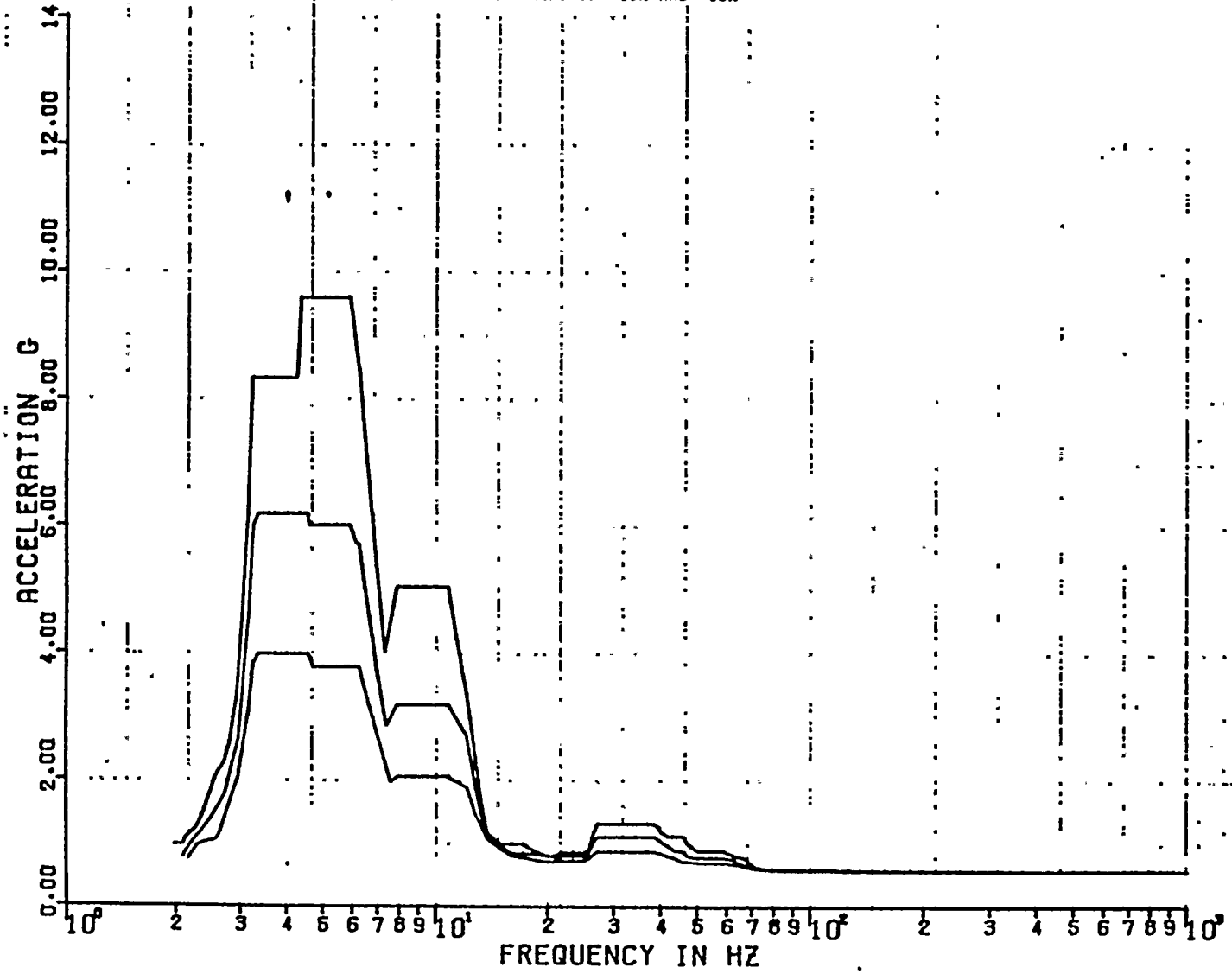
MS 1746

MICHAEL K DO

DISK CURVE SET NO.10 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 40

PSPECTRA VER 01 LEV 08 UPSET CONDITION 24 JAN 1988

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12 MS-1746-0

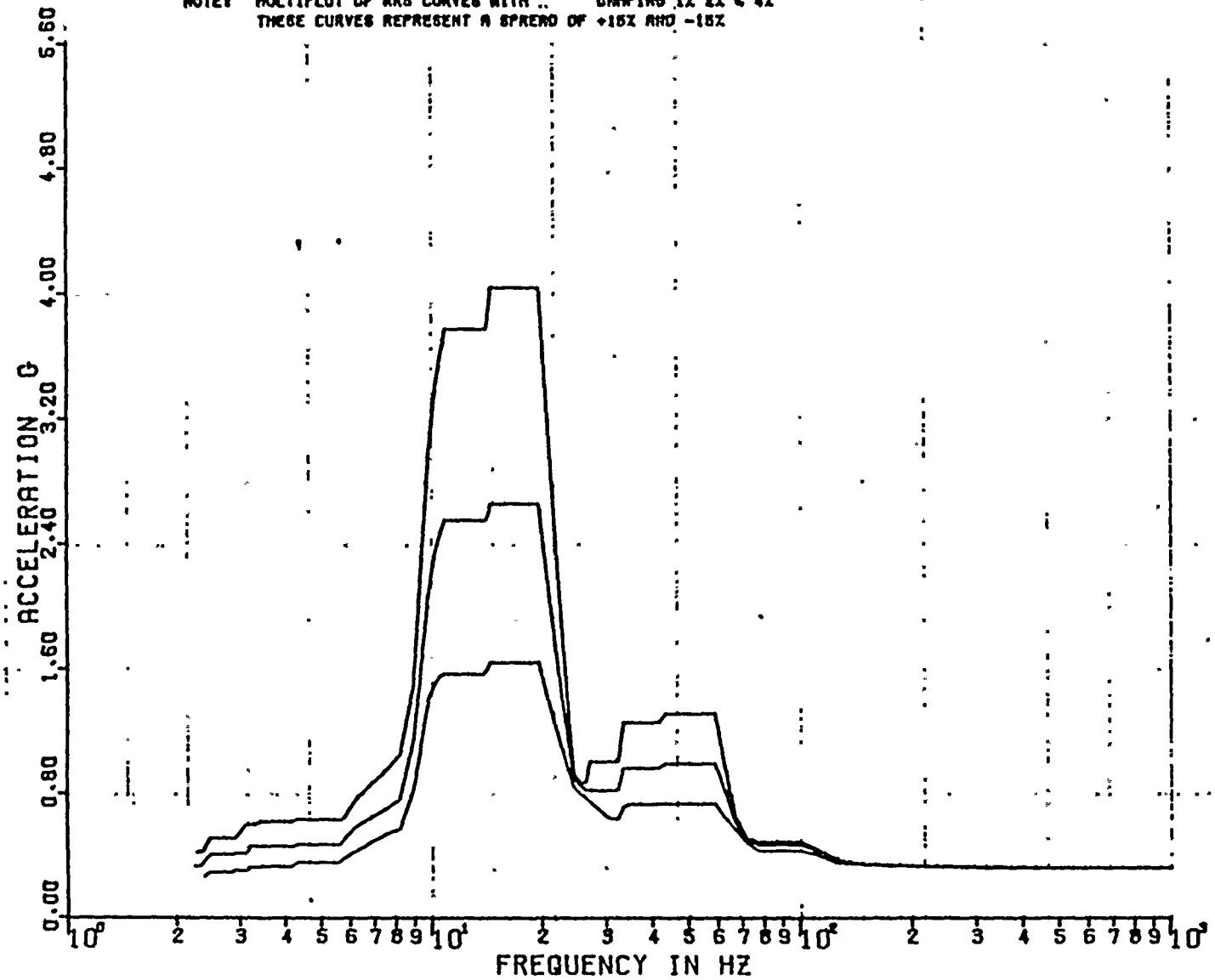
RRS OF ACCELERATION SHIELD WALL (ELEV.315.0 , T)

MS 1746

MICHAEL K DO

DISK CURVE SET NO.10 VER DIRECTION DAMPING VALUES : 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 40

PSPECTRA VER 01 LEV 08 FAULT CONDITION 25 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 (LOCIZ) MS-1747-0

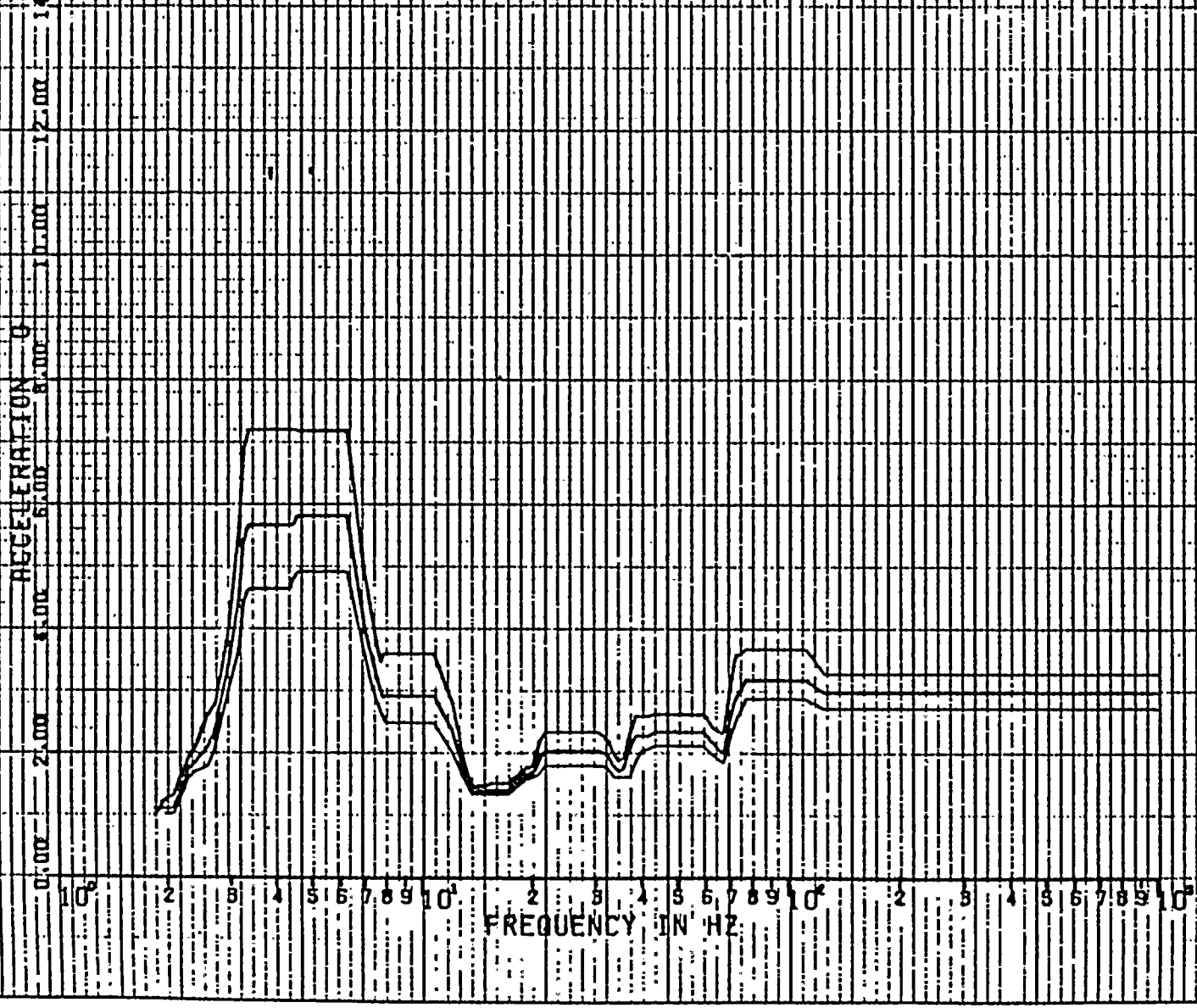
RRS OF ACCELERATION SHIELD WALL (ELEV. 302.75 FT)

MS 1747

MICHAEL K. CO

DISK: CURVE SET NO.11 HOR DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 5% & 4%
THICK CURVES REPRESENT A SPREAD OF +15% AND -15%



Ref 41

0000000041

PSPECTRA VER 01 LEV 08 FAULT CONDITION 26 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.11 HS-1747-0

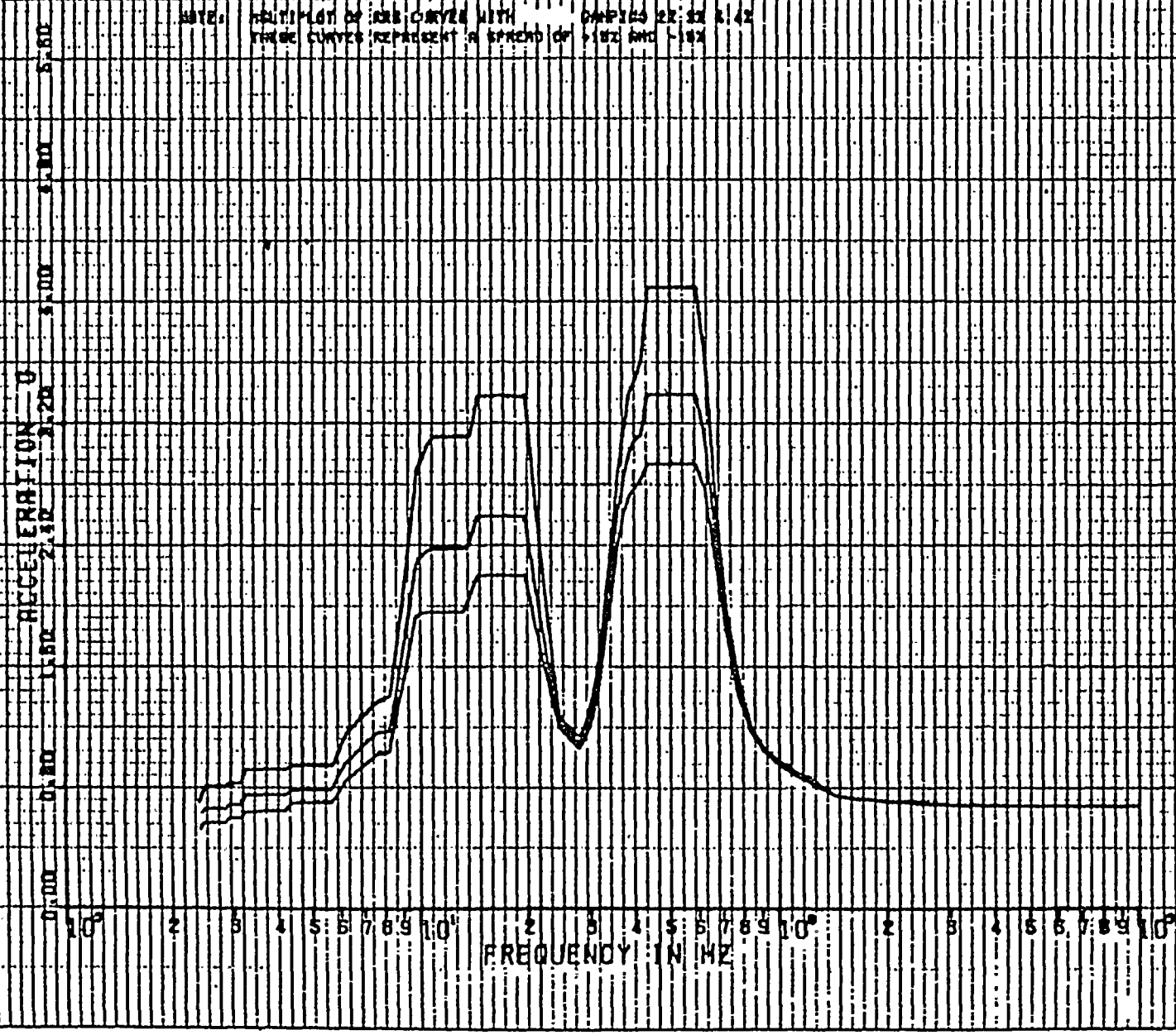
RMS OF ACCELERATION SHIELD WALL (ELEV. 302'-6" FT)

MS 1747

MICHAEL K. BO

DISK CURVE SET NO.11 VER DIRECTION DAMPING VALUES = 0.020 0.000 0.040

NOTE: MULTIPLOT OF RMS CURVES WITH COMPUTED 2X 3X 4X
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 41

00000004042

PSPECTRA VER 01 LEV 08 U CONDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12 MS-1746-0

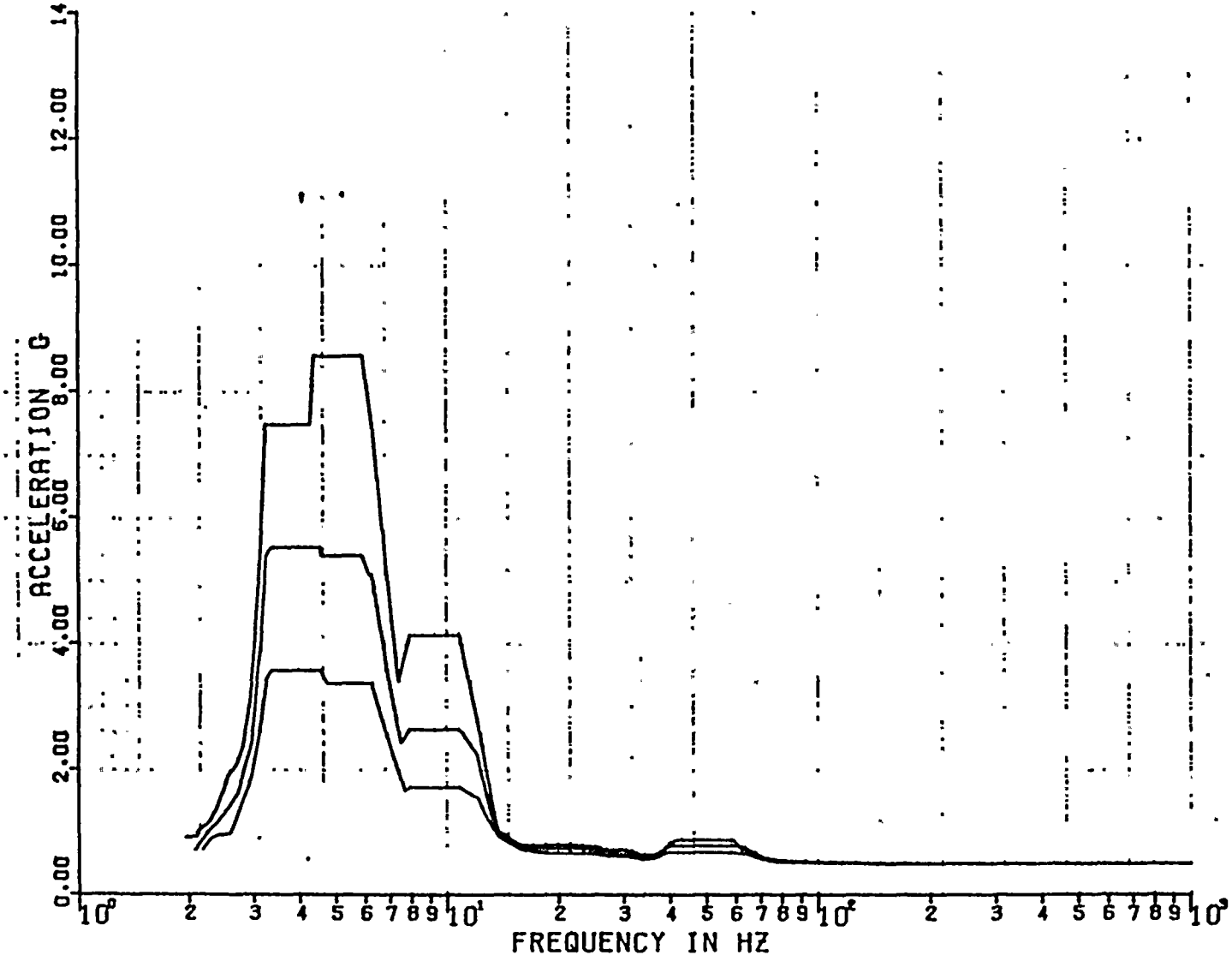
RRS OF ACCELERATION SHIELD WALL (ELEV. 302.75 FT)

MS 1746

MICHAEL K OO

DISK CURVE SET NO.11 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 41

PSPECTRA VER 01 LEV 08 CONDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12.../ MS-1746-0

RMS OF ACCELERATION SHIELD WALL (ELEV. 302.75 FT)

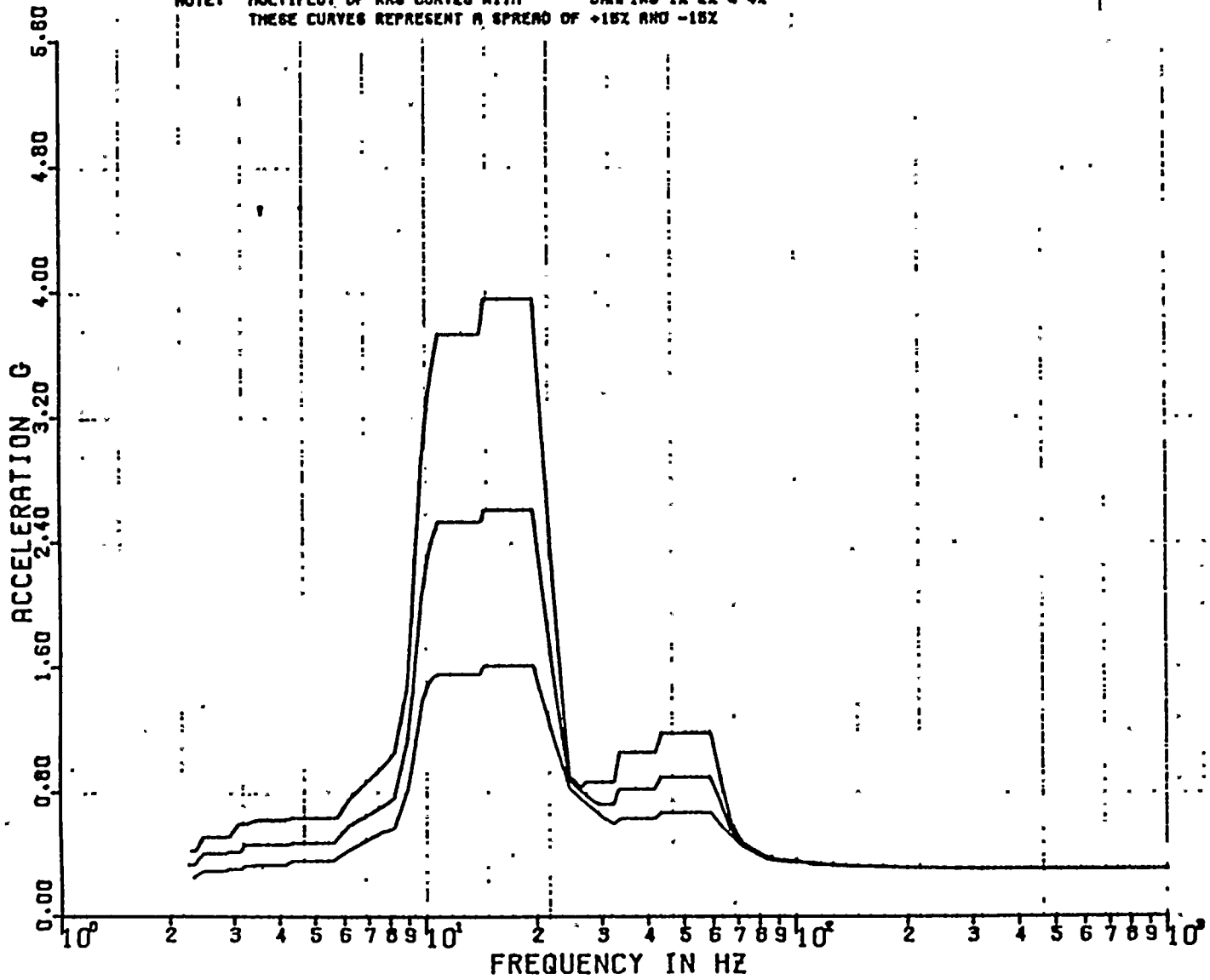
MS 1746

MICHAEL K DO

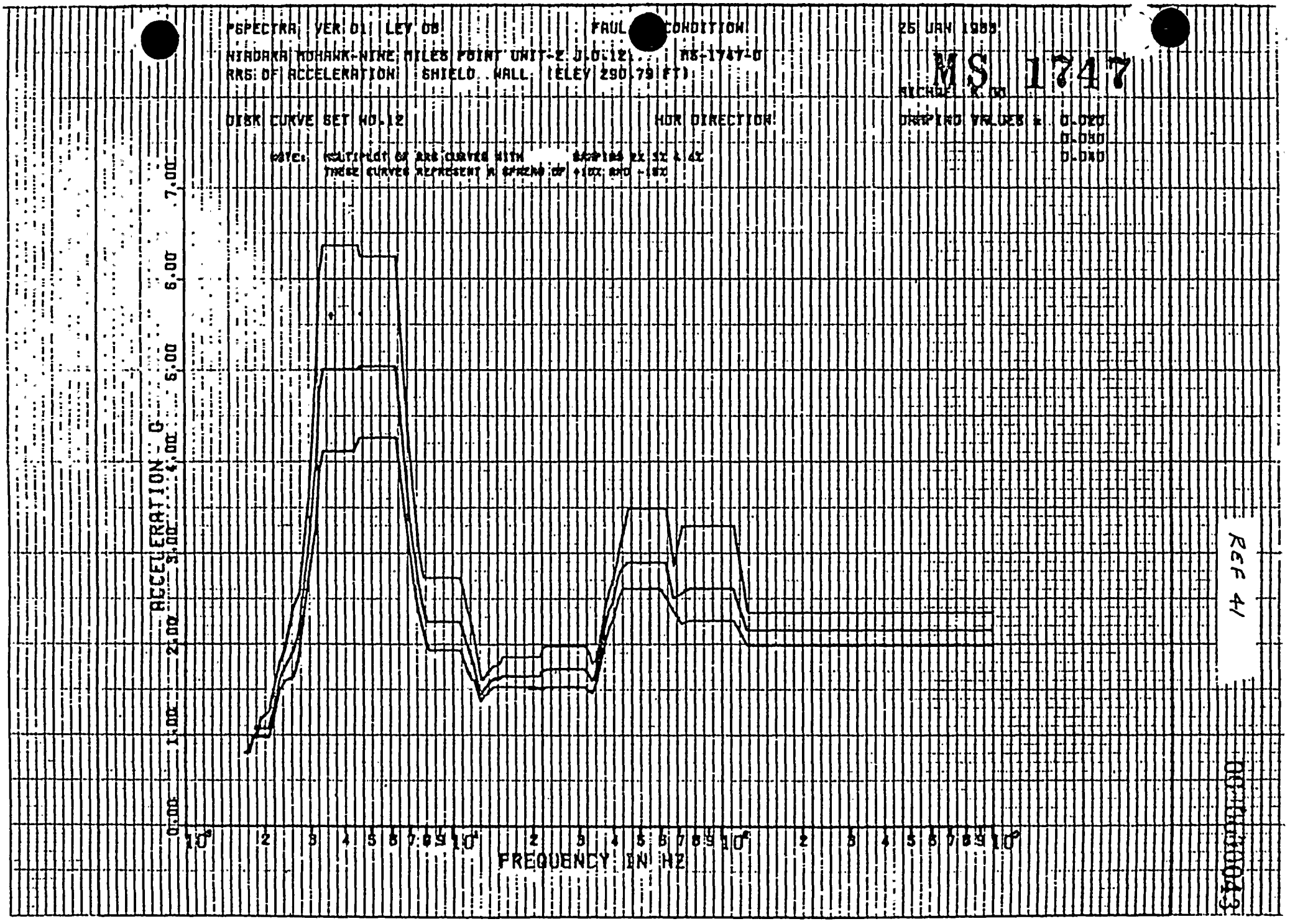
DISK CURVE SET NO.11 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 41


SPECTRA VER 01 LEV 08
FAUL CONDITION
25 JAN 1980
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 DOCKET
RS-1747-0
RMS OF ACCELERATION SHIELD WALL (ELEV 290.79 FT)
MS 1747
RICHARD K. OO
DISK CURVE SET NO.12
HOR DIRECTION
DAMPING VALUES = 0.020
0.040
0.080
NOTE: MULTIPLOT OF RMS CURVES WITH SAMPLES 2% 5% & 8%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%
ACCELERATION - G
0.00
1.00
2.00
3.00
4.00
5.00
6.00
7.00
FREQUENCY IN HZ
REF 41
DOCTHOOO43

PSPECTRA VER 01 LEV 08 FAUL CONDITION 25 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 D.O.121 MS-1747-0

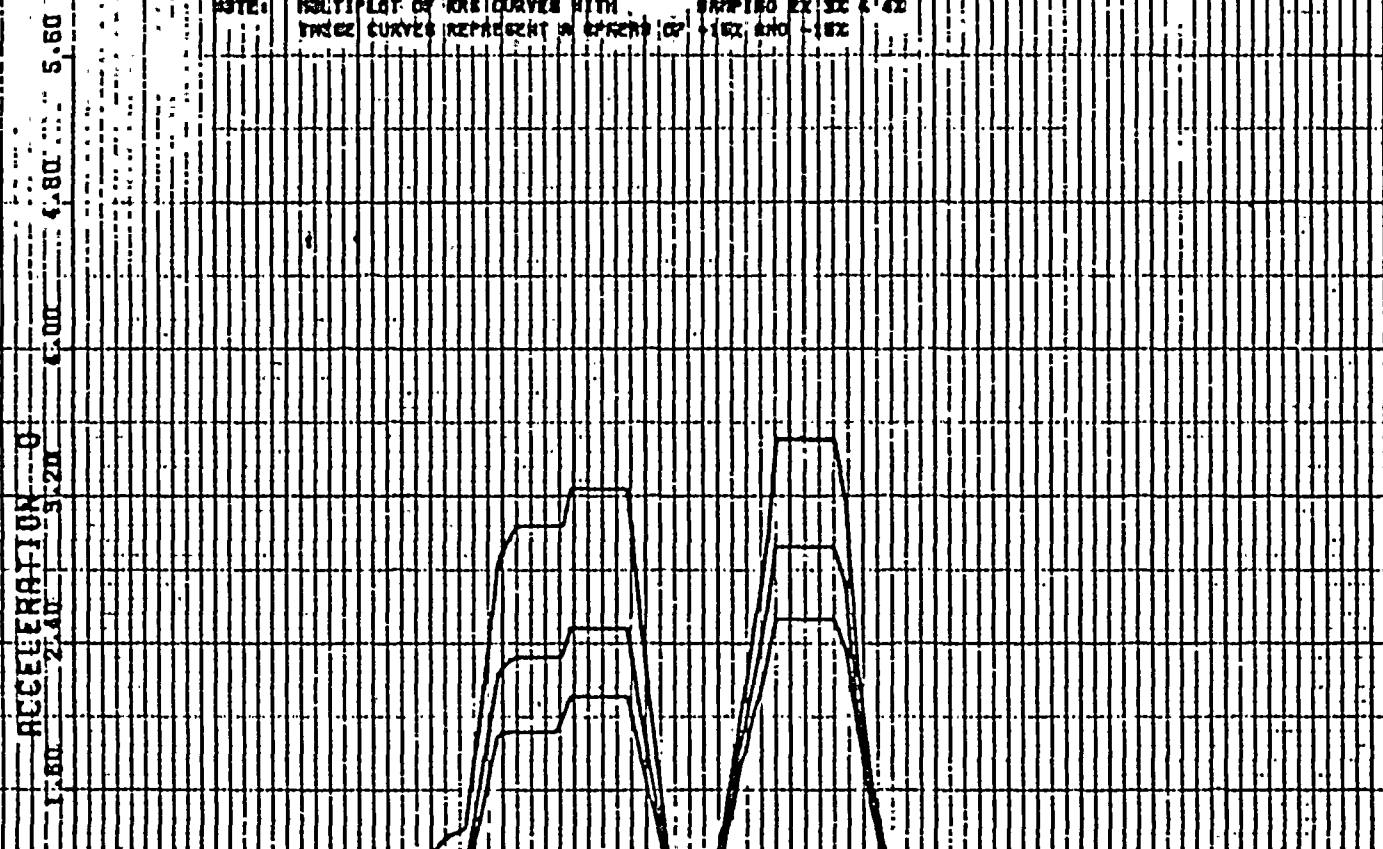
RRS OF ACCELERATION SHIELD WALL (ELEV 290.75 FT)

MS 1747

MICHOEL K.OO

DISK CURVE SET NO.12 VER DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% & 4%
THREE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 42

00-000004

PSPECTRA VER 01 LEV 08 UPD ONDITION 24 JAN 1985

MIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.121 MS-1746-0

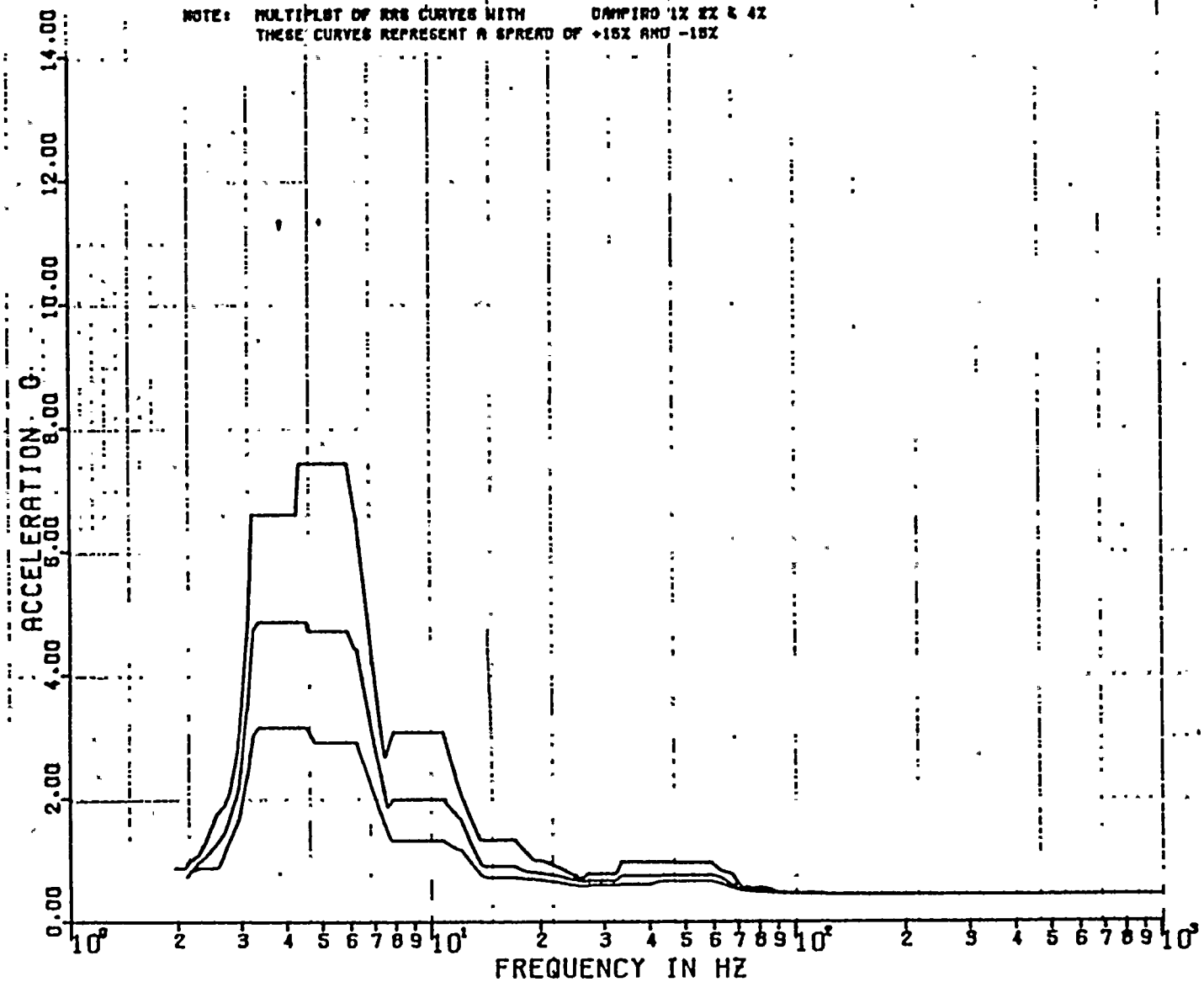
RRS OF ACCELERATION SHIELD WALL (ELEV 290.79 FT)

MS 1746

MICHAEL K OO

DISK CURVE SET NO.12 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 42

PSPECTRA VER 01 LEV 08 CONDITION 24 JAN 1985

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O-1. / MS-1746-0

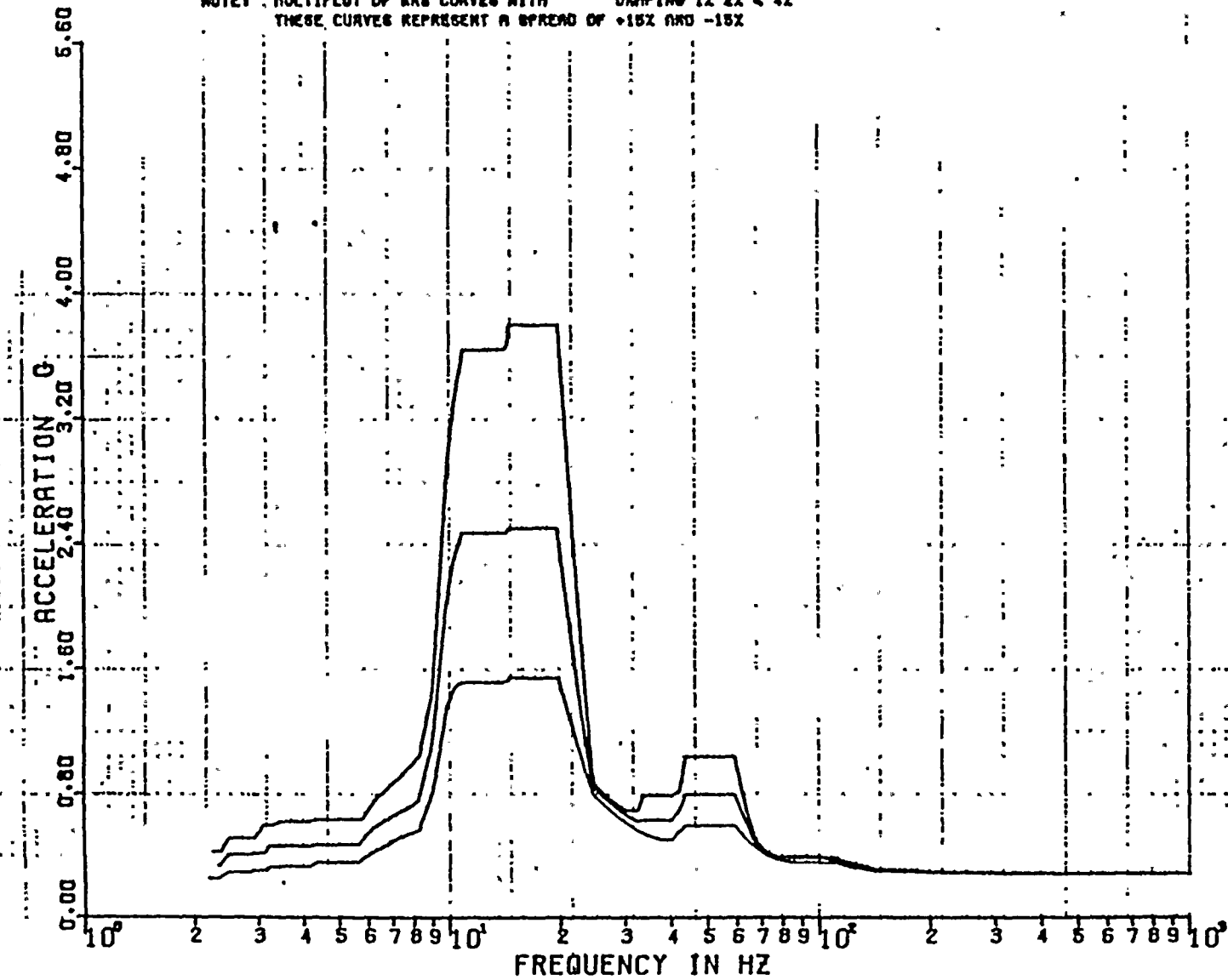
RRS OF ACCELERATION SHIELD WALL (ELEV 290.79 FT)

MS 1746

MICHAEL K OD

DISK CURVE SET NO.12 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 42

PSPECTRA VER 01 LEV 08 FAIL-0 CONDITION 25 JAN 1985

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O. RS-1747-0

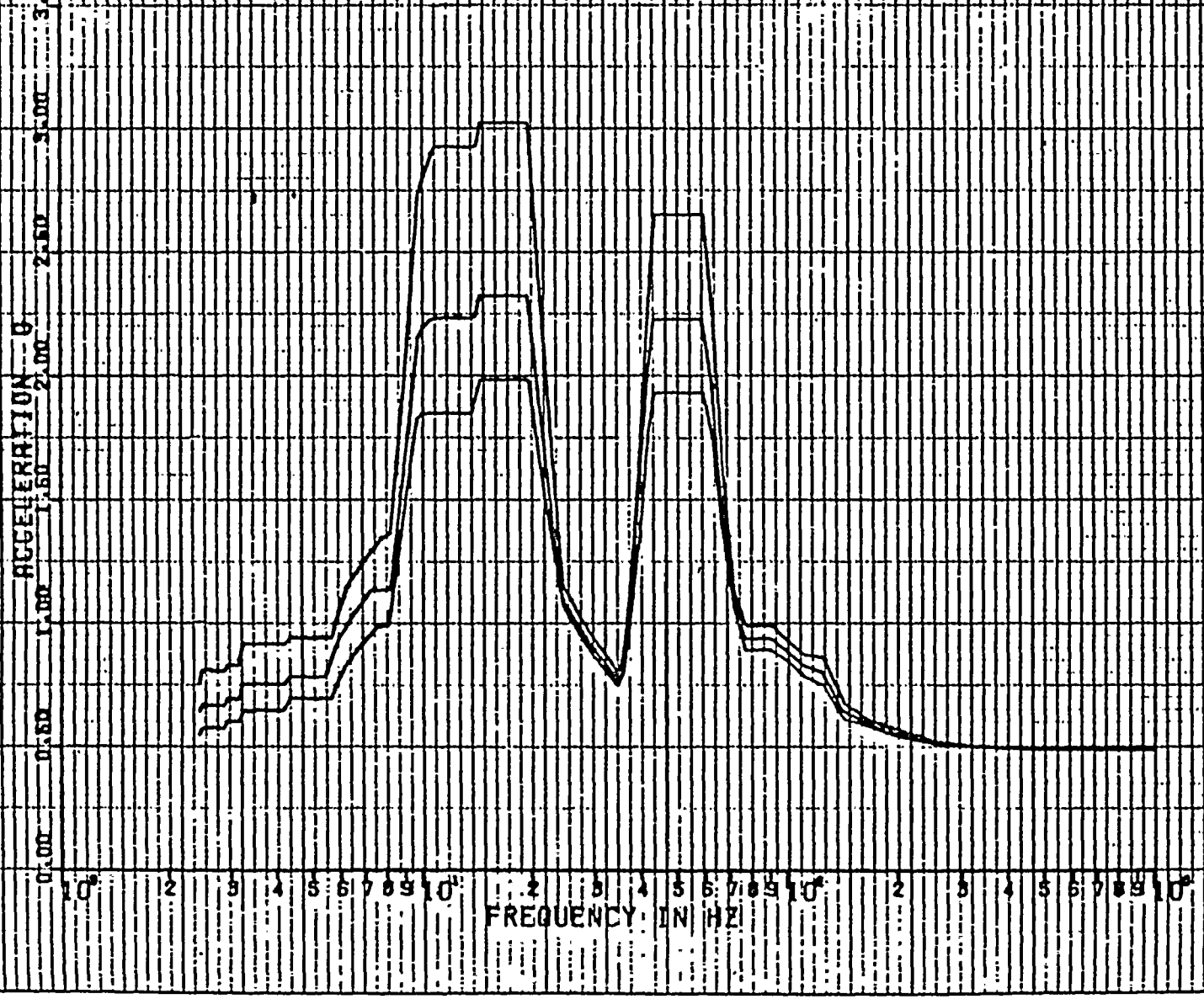
RRS OF ACCELERATION SHIELD WALL (ELEV. 27'-.65 FT)

MS 174

MICHAEL K. OB

DISK CURVE SET NO.13 VER DIRECTION DAMPING VALUES = 0.020 0.050 0.080

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING XX 5% & 4% THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 43

00-DIR-045

PSPECTRA VER 01 LEV 08 FAU[illegible] CONDITION 25 JAN 1988

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.1[illegible] MS-1747-D

RRS OF ACCELERATION SHIELD WALL (ELEV. 278.65 FT)

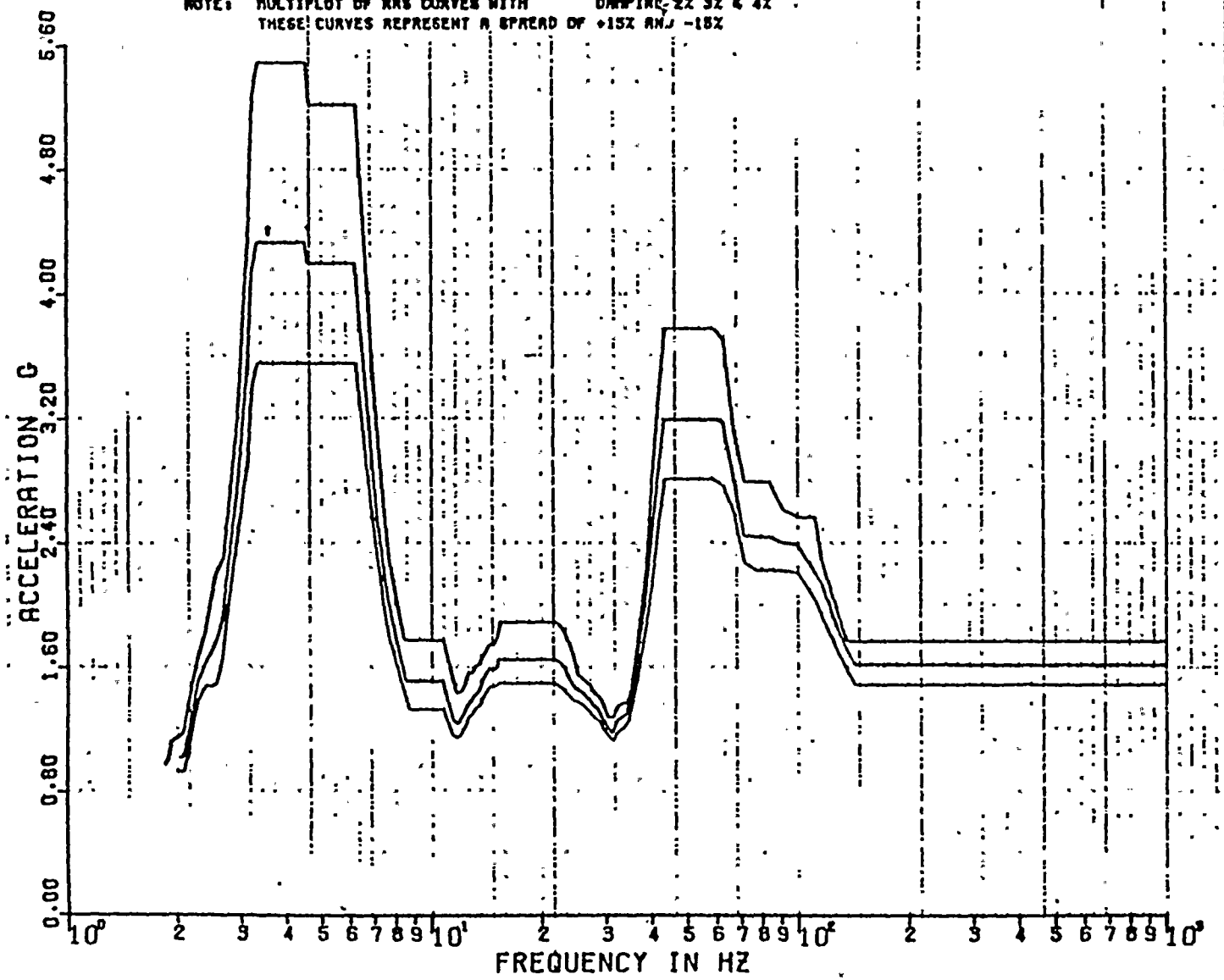
MS 1747

MICHAEL K DO

DISK CURVE SET NO.13 HOR DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 43

00030046

PSPECTRA VER 01 LEV 08 UP[illegible]NDITION 24 JAN 1989

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12[illegible] MS-1746-0

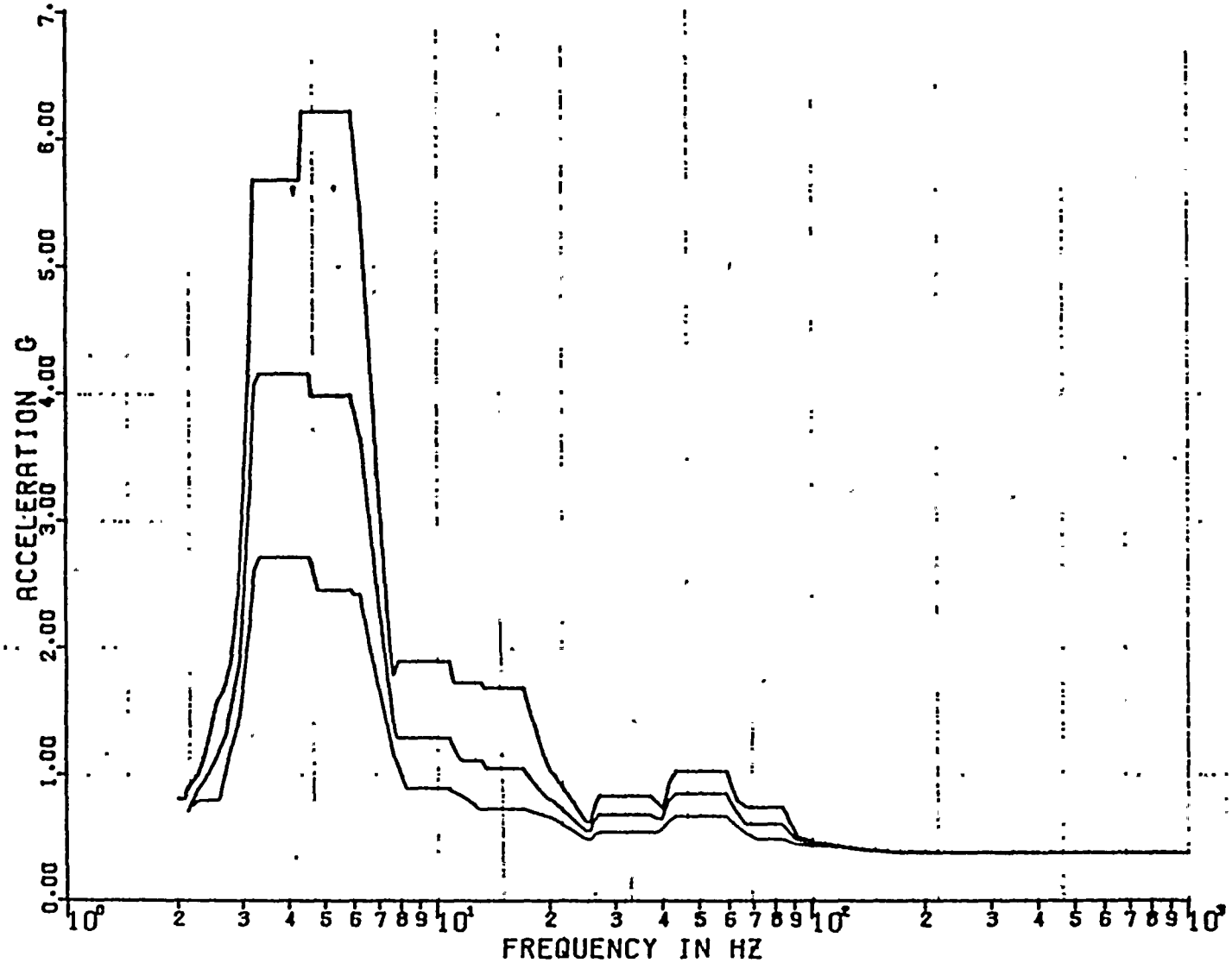
RRS OF ACCELERATION SHIELD WALL (ELEV. 278.65 FT)

MS 1746

MICHAEL K OO

DISK CURVE SET NO.13 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 43

PSPECTRA VER 01 LEV 08 U[illegible] NDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.121.. MS-1746-0

RMS OF ACCELERATION SHIELD WALL (ELEV. 278.65 FT)

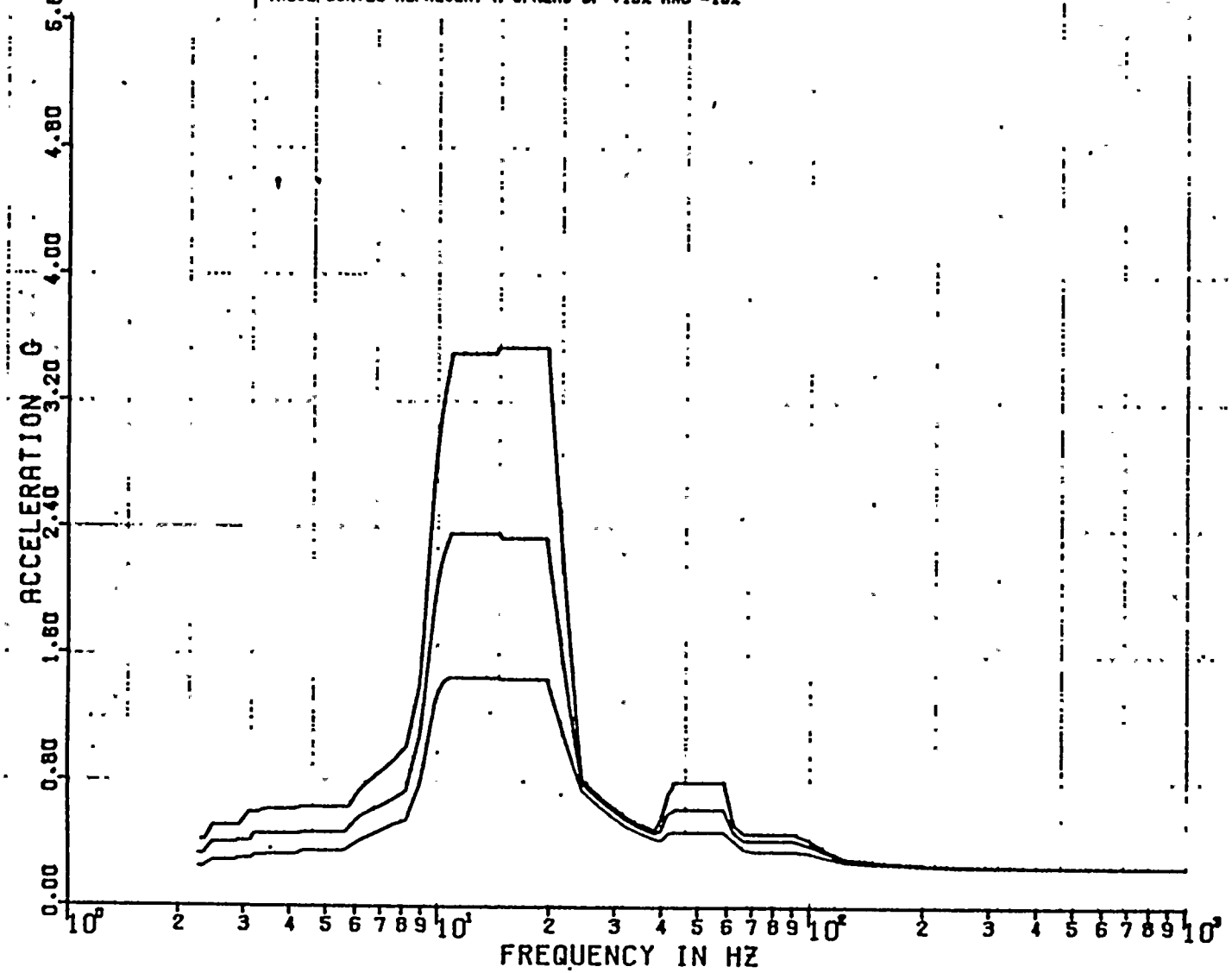
MS 1746

MICHAEL K OO

DISK CURVE SET NO.13 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 43

PSPECTRA VER 01 LEV 08 FAUL CONDITION 25 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 RS-1747-0

RRS OF ACCELERATION RPV SHELL (ELEV. 332.70 FT)

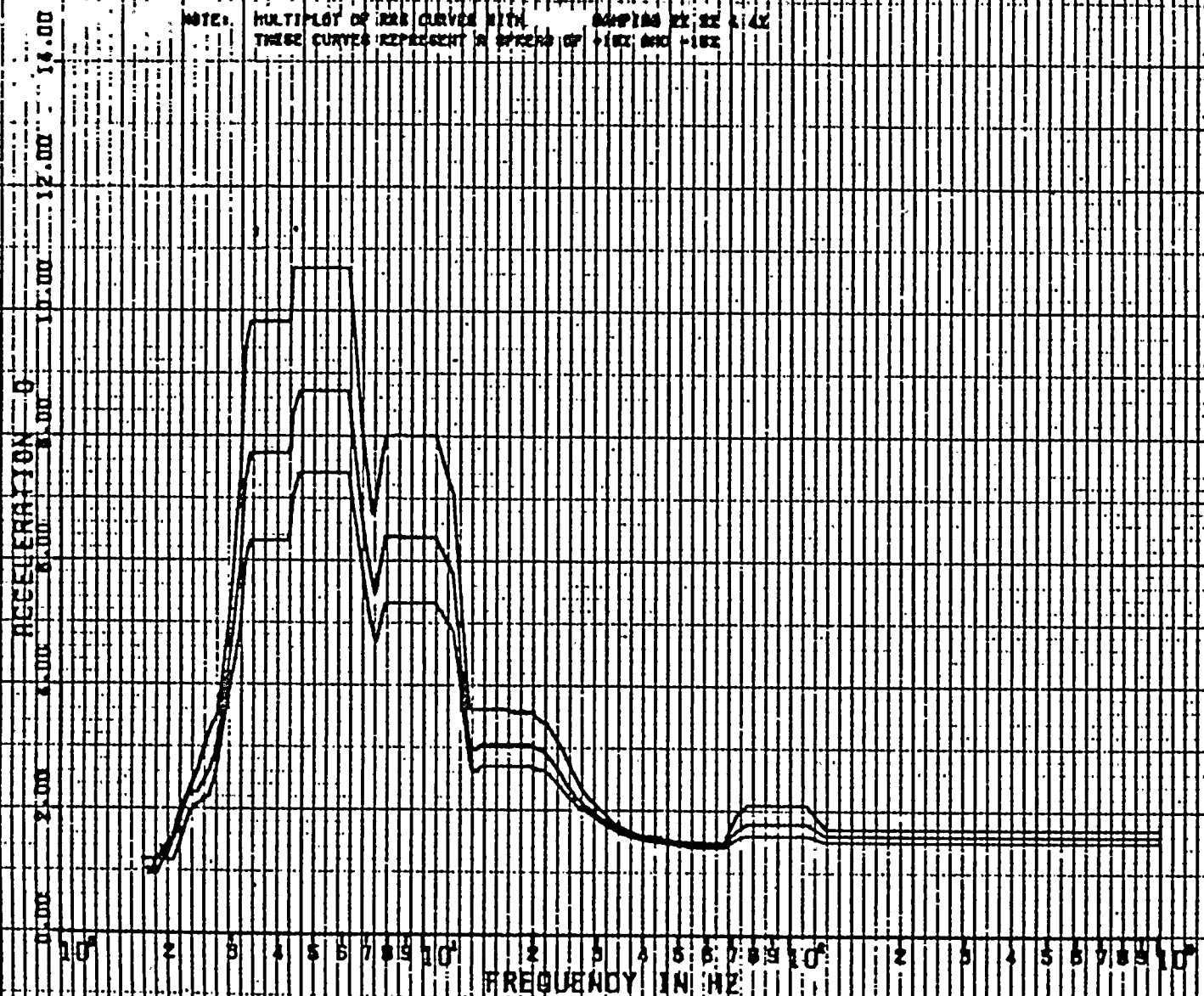
MS 1747

MICHAEL K 00

DISK CURVE SET NO.14 HOR DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 44

00002047

PSPECTRA VER 01 LEV 08 FAULT CONDITION 25 JAN 1985

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 RS-1747-0

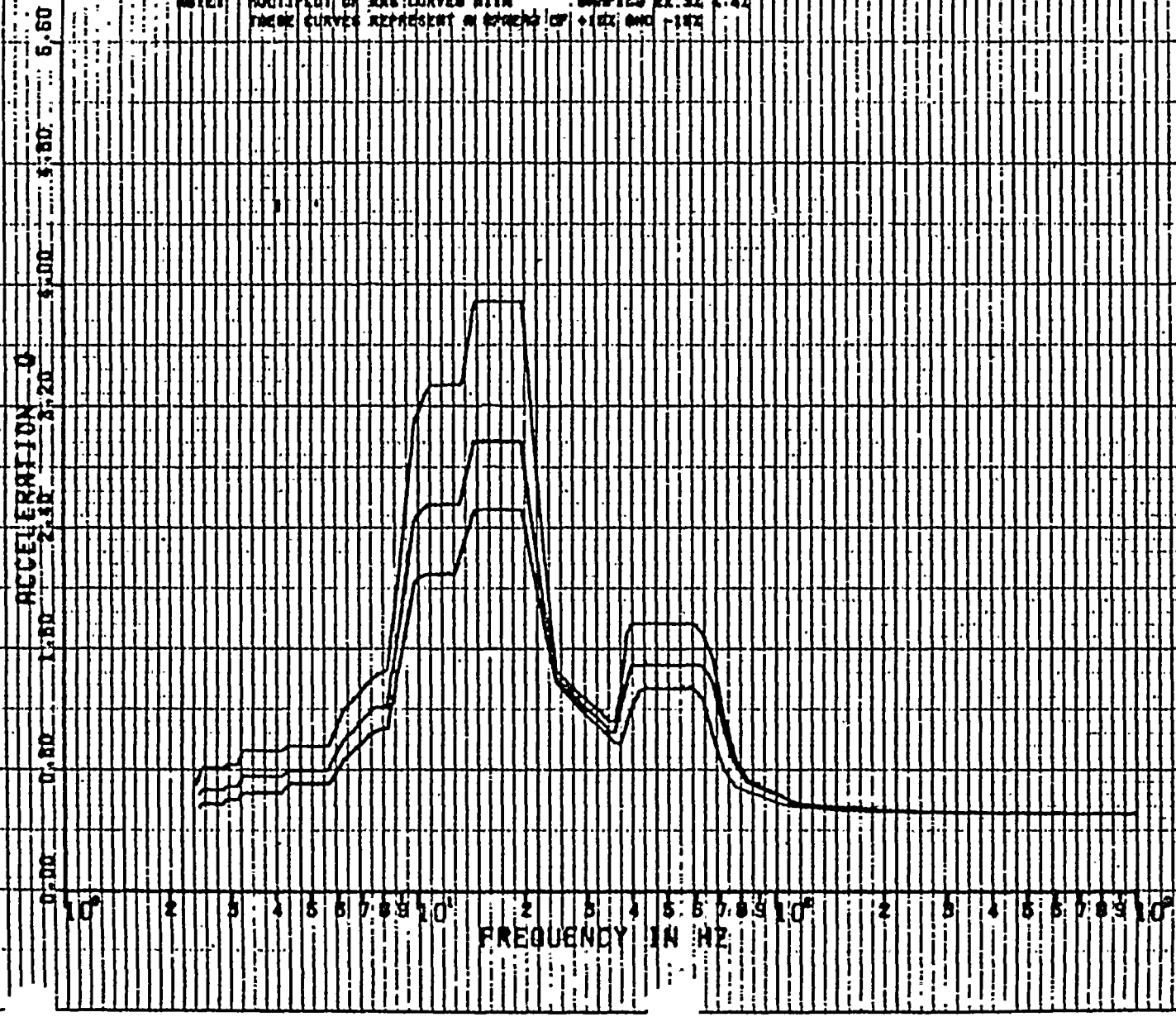
RRS OF ACCELERATION RPV SHELL (ELEV. 332.70 FT)

MS 1747

MICHAEL K. DD

DISK CURVE SET NO. 14 VER DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING EX. 2X 4.4Z
THESE CURVES REPRESENT AN ERROR OF +10Z AND -10Z



REF 44

01-23-0048

PSPECTRA VER 01 LEV 08 , CONDITION 24 JAN 1985

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J:0:12../ M6-1746-0

RMS OF ACCELERATION RPV SHELL (ELEV. 332.70 FT)

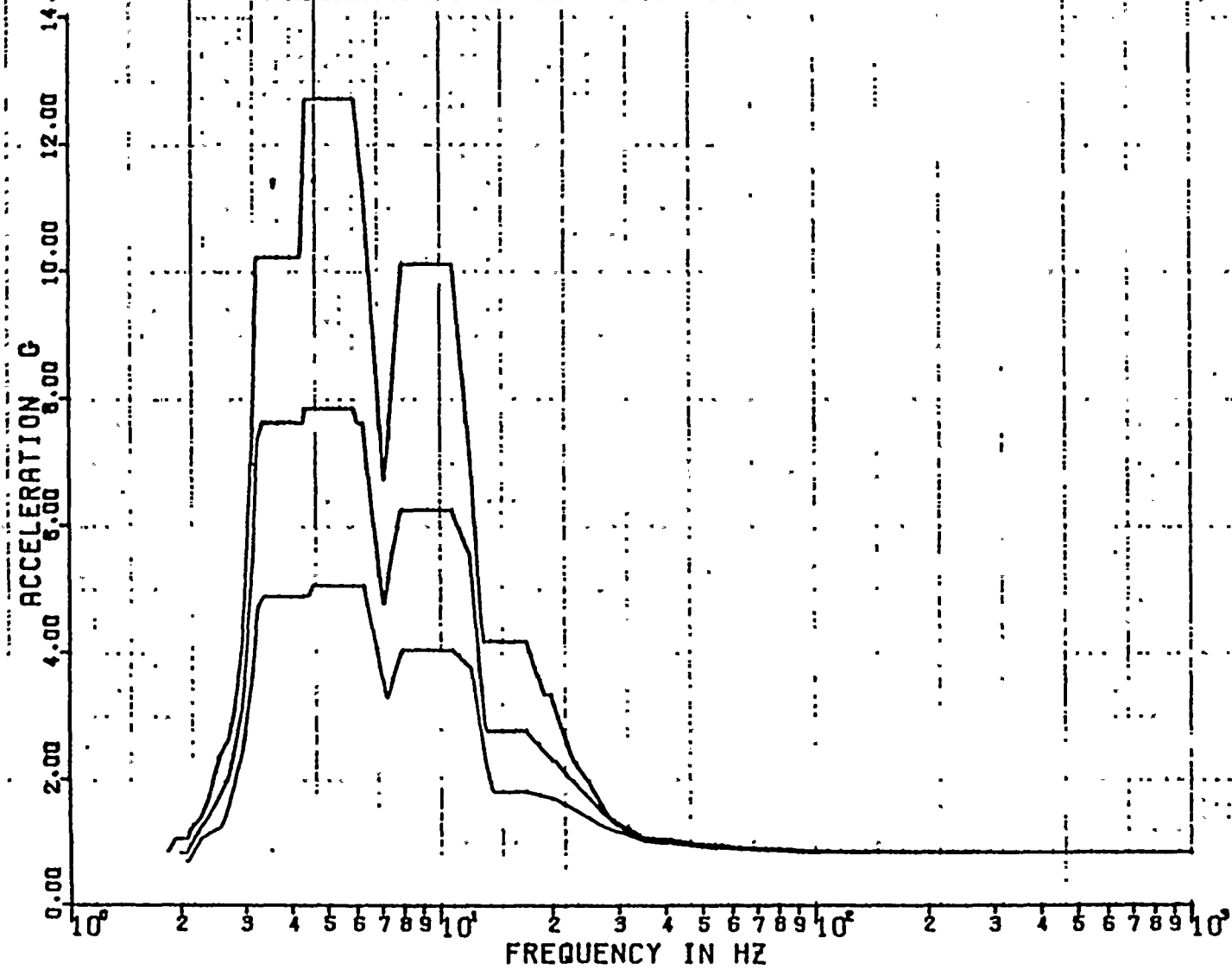
MS 1746

MICHAEL K DO

DISK CURVE SET NO.14 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 44

PSPECTRA VER 01 LEV 08 [illegible]T CONDITION 24 JAN 1985

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J[illegible] MS-1746-0

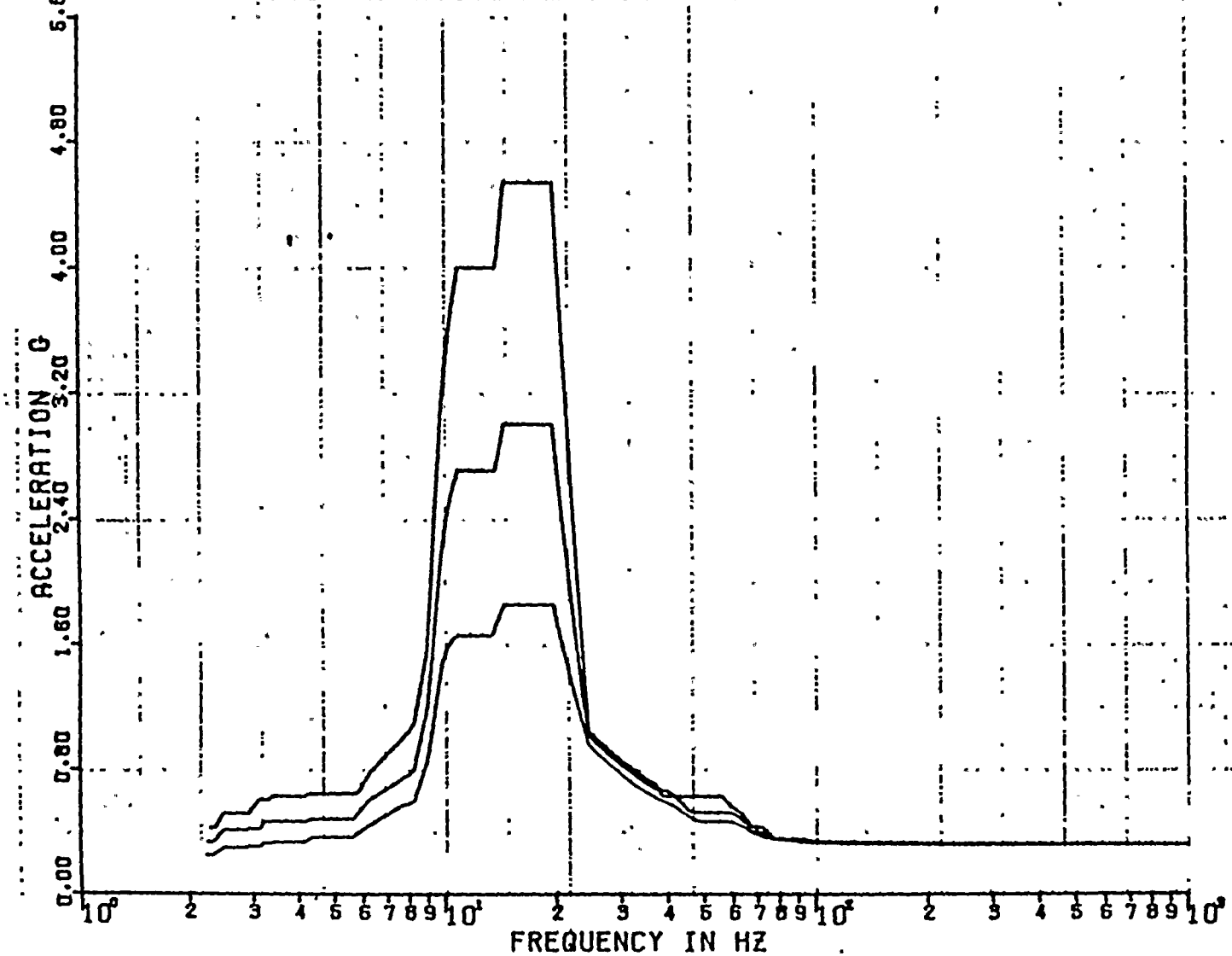
RRS OF ACCELERATION RPV SHELL (ELEV. 352.[illegible] /)

MS 1746

MICHAEL K DO

DISK CURVE SET NO.14 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REP 44

PSPECTRA VER 0 LEV 08 FAUL CONDITION 26 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 D.O.12177 MS-1747-0

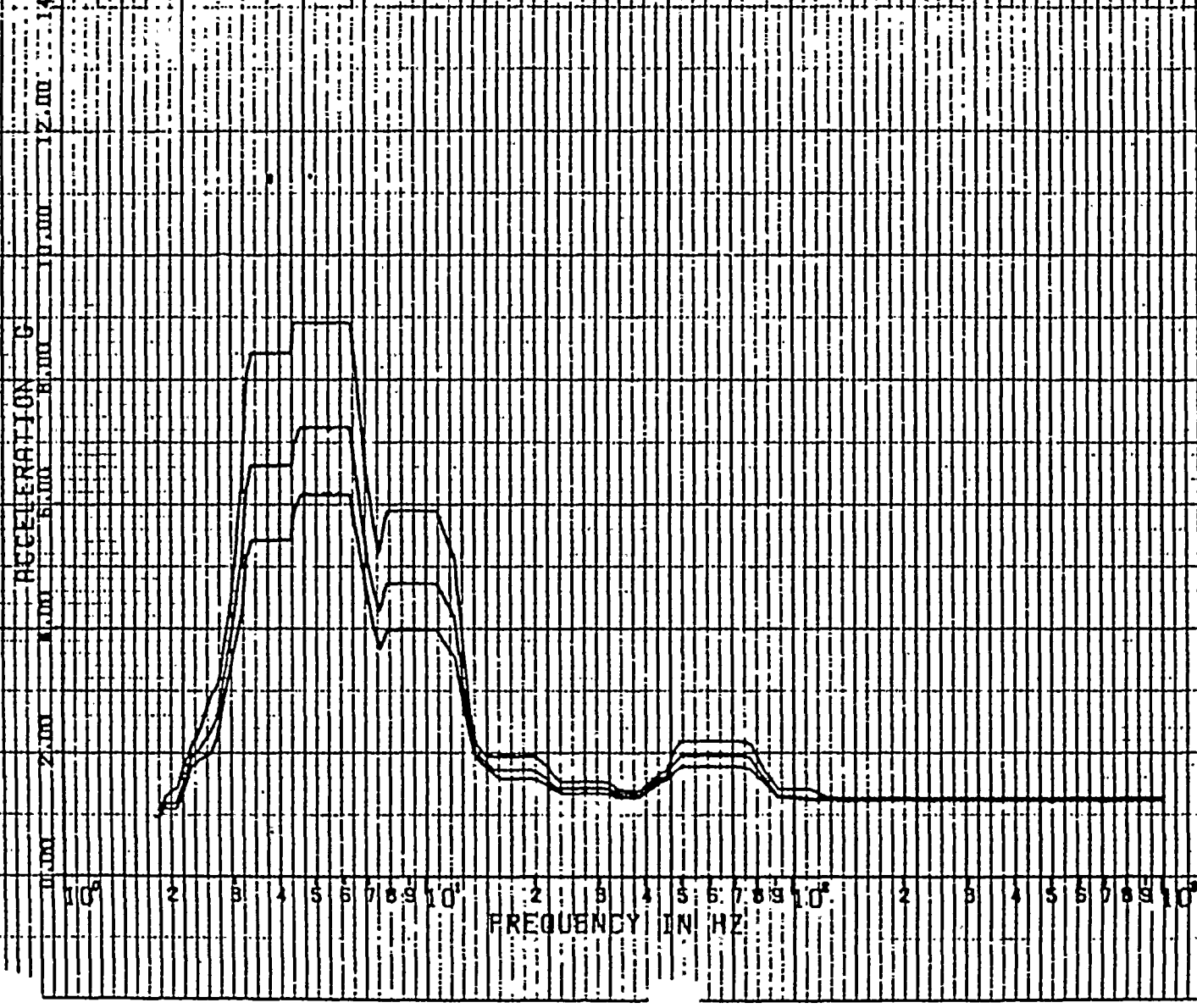
RMS OF ACCELERATION RPV SHELL (ELEV 315.08 FT)

MS 1747

MICHAEL K. DO

DISK CURVE SET NO 15 HOR DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 45

0000016049

PSPECTRA VER 01 LEV 08 FAU CONDITION 25 JAN 1988

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 3-D-12177 MS-1747-0

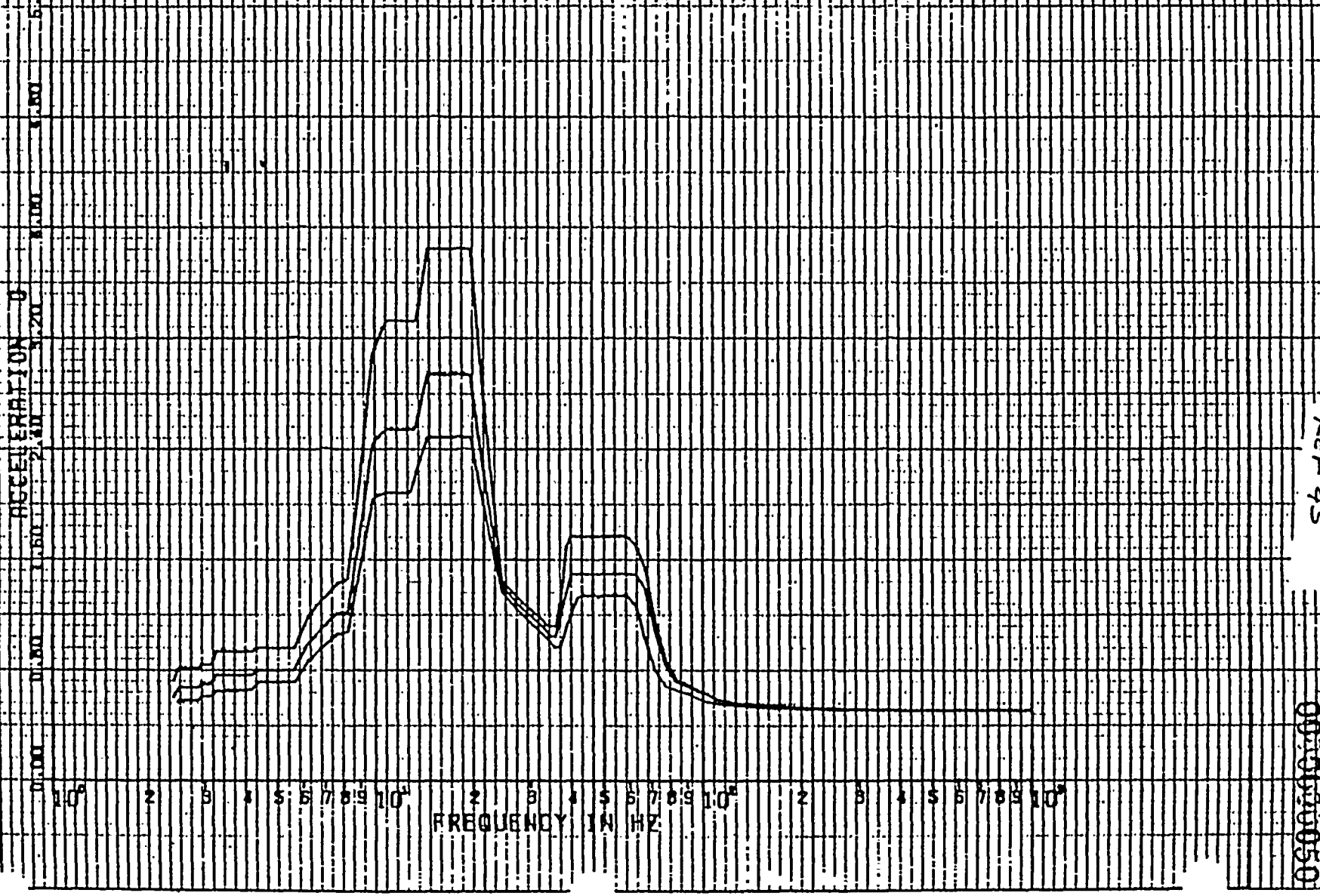
RMS OF ACCELERATION RPV SHELL (ELEV.315.08 FT)

MS 1747

MICHAEL K. OD

DISK CURVE SET NO.15 VER DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 45

0050

PSPECTRA VER 01 LEV 08 , CONDITION 24 JAN 1989

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12../ MS-1746-0

RMS OF ACCELERATION RPV SHELL (ELEV.315.08 FT)

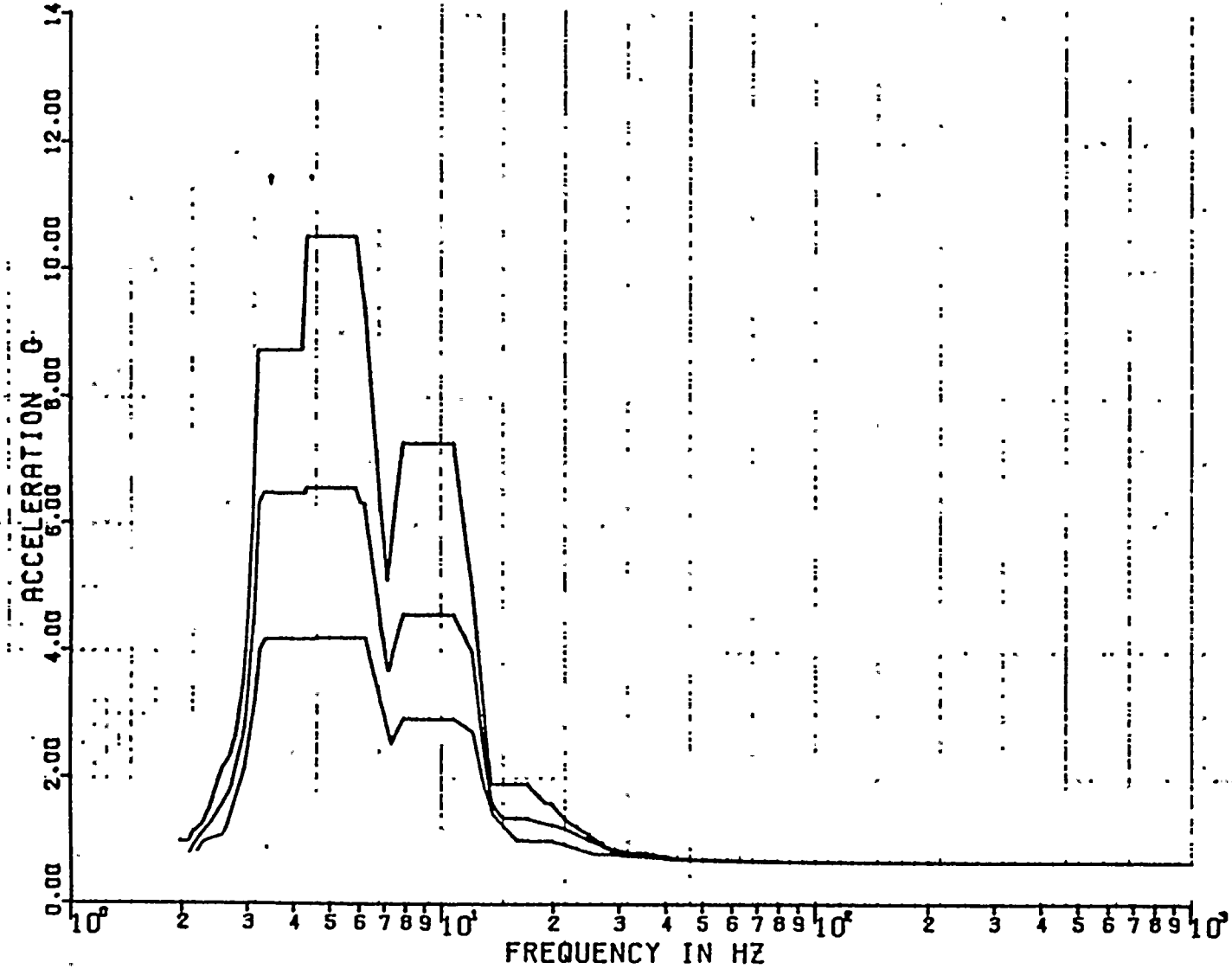
MS 1746

MICHAEL K DO

DISK CURVE SET NO.15 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REP 45

PSPECTRA VER 01 LEV 08 U[illegible] CONDITION 24 JAN 1985

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.[illegible] MS-1746-0

RMS OF ACCELERATION RPV SHELL (ELEV.315.08 FT)

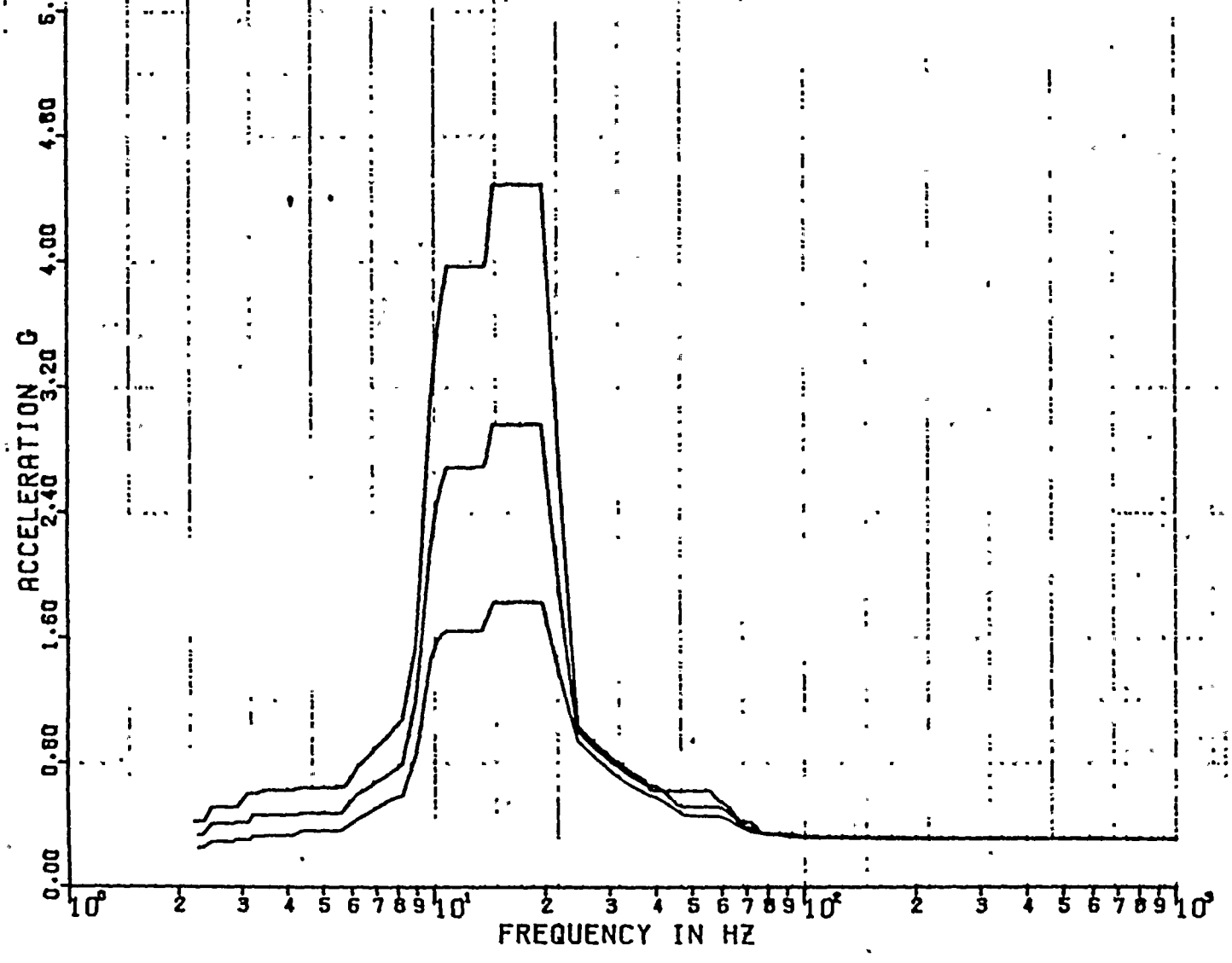
MS 1746

MICHAEL K OO

DISK CURVE SET NO.15 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 45

PSPECTRA, VER 01 LEV 08 F D CONDITION 26 JAN 1988

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1747-0

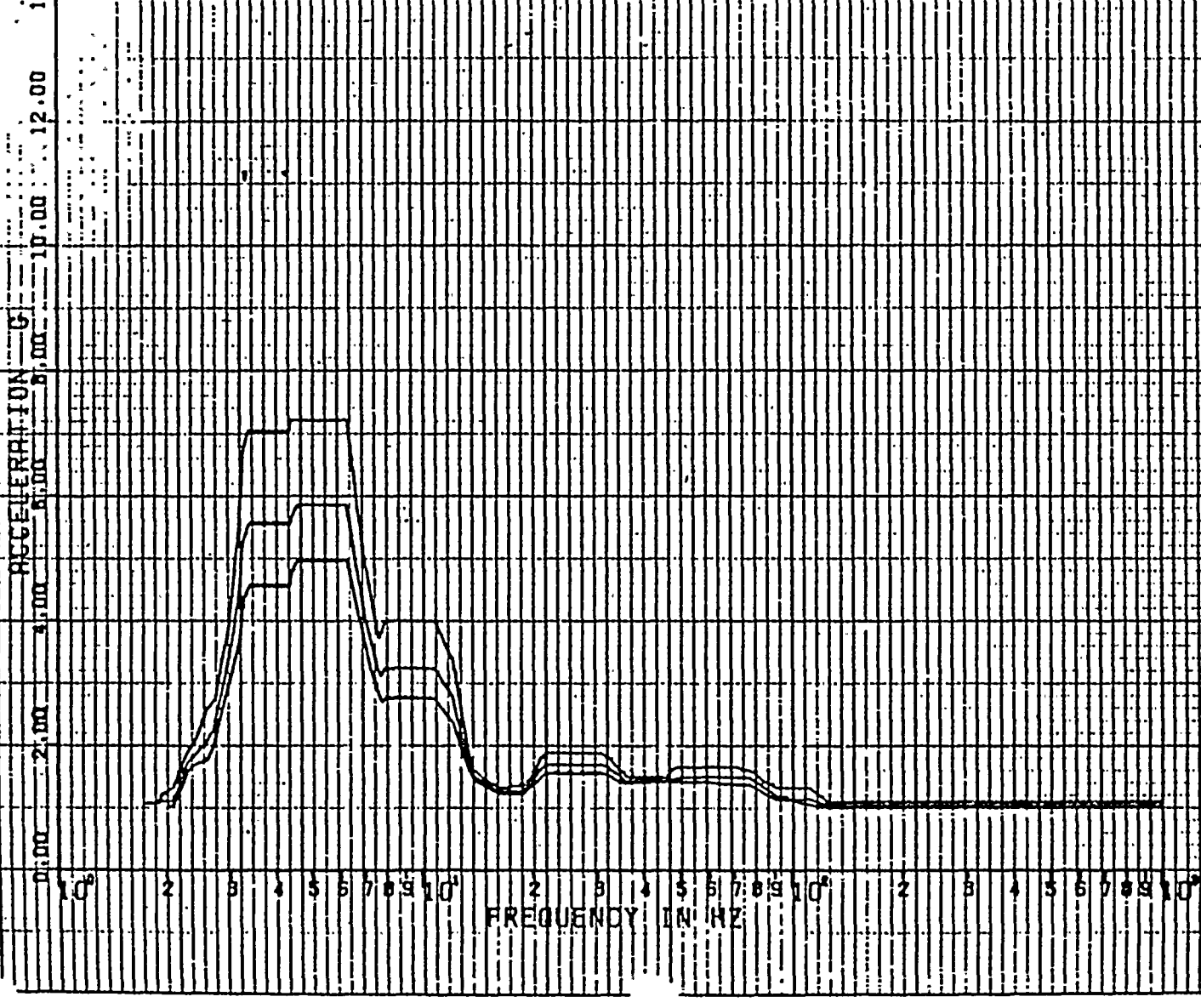
RRS OF ACCELERATION: RPV SHELL (ELEV.297.17 FT)

MS 1747

MICHAEL K. DD

DISK CURVE SET NO.16 HDR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2%,3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 46

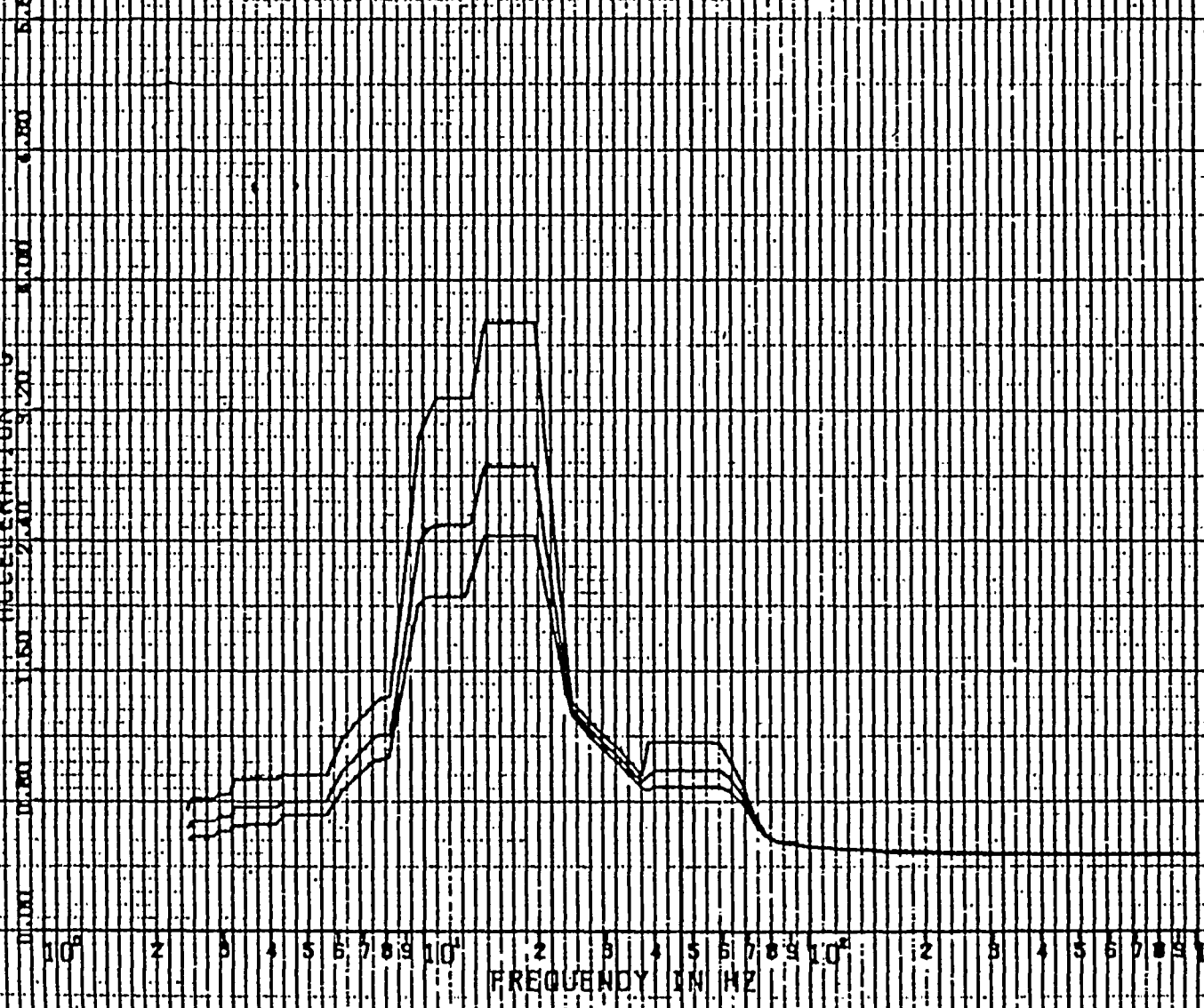
PSPECTRA VER 01 LEV 08 FAULTED CONDITION 25 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 U.O.12177 MS-1747-0
RMS OF ACCELERATION RPV SHELL (ELEV.297.17 FT)

MS 1747
MICHAEL K. OO

DISK CURVE SET NO.16 VER DIRECTION DAMPING VALUES = 0.020
0.050
0.080

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2% 5% & 8%
THESE CURVES REPRESENT A BANDWIDTH OF +10% AND -10%



REF 46

00100000052

PSPECTRA VER 01 LEV 08 L[illegible] CONDITION 24 JAN 1985

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12[illegible] MS-1746-0

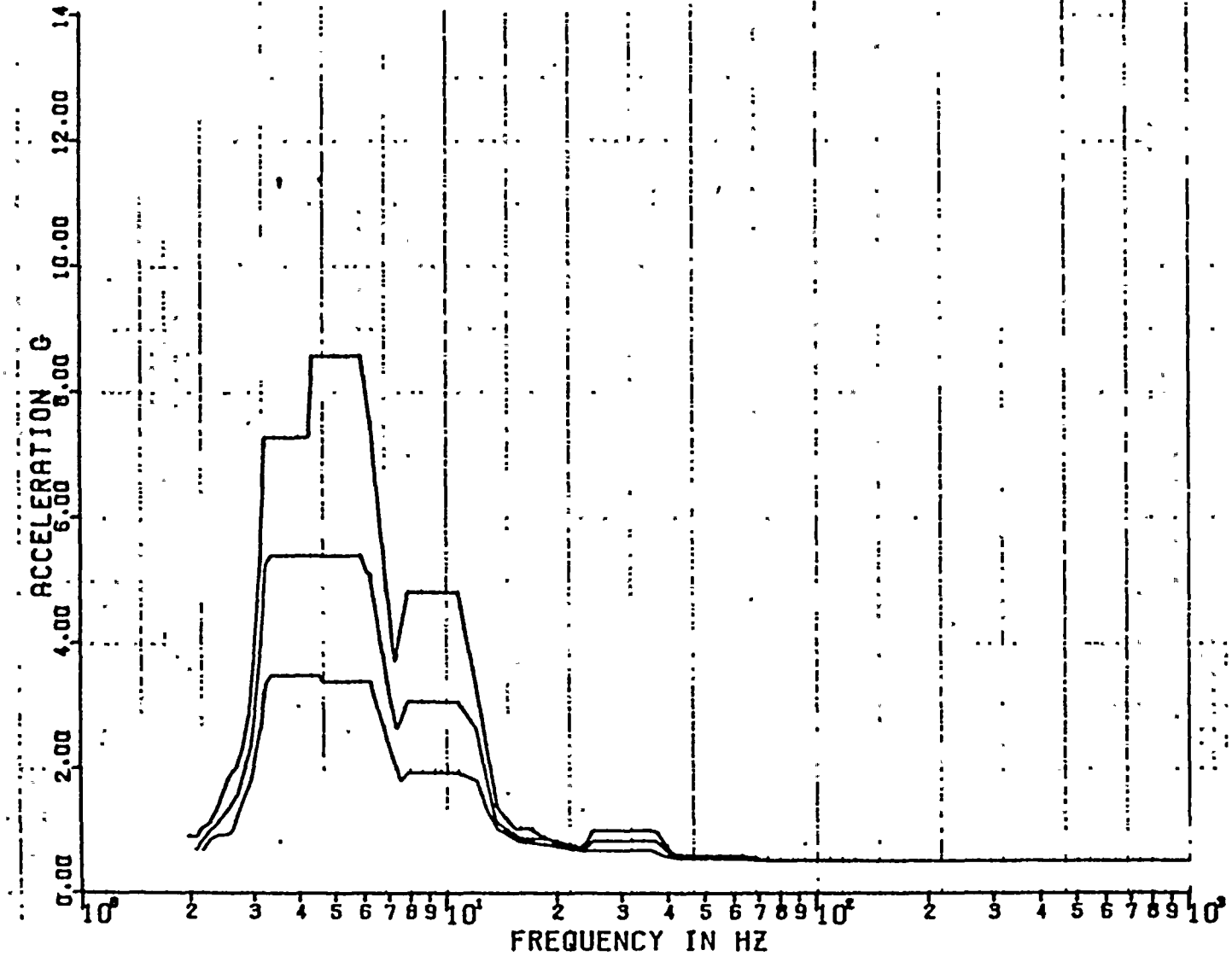
RRS OF ACCELERATION RPV SHELL (ELEV.297.17 FT)

MS 1746

MICHAEL K DO:

DISK CURVE SET NO.16 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH [illegible] DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 46

PSPECTRA VER 01 LEV 08 CONDITION 24 JAN 1985

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.121.. MS-1746-0

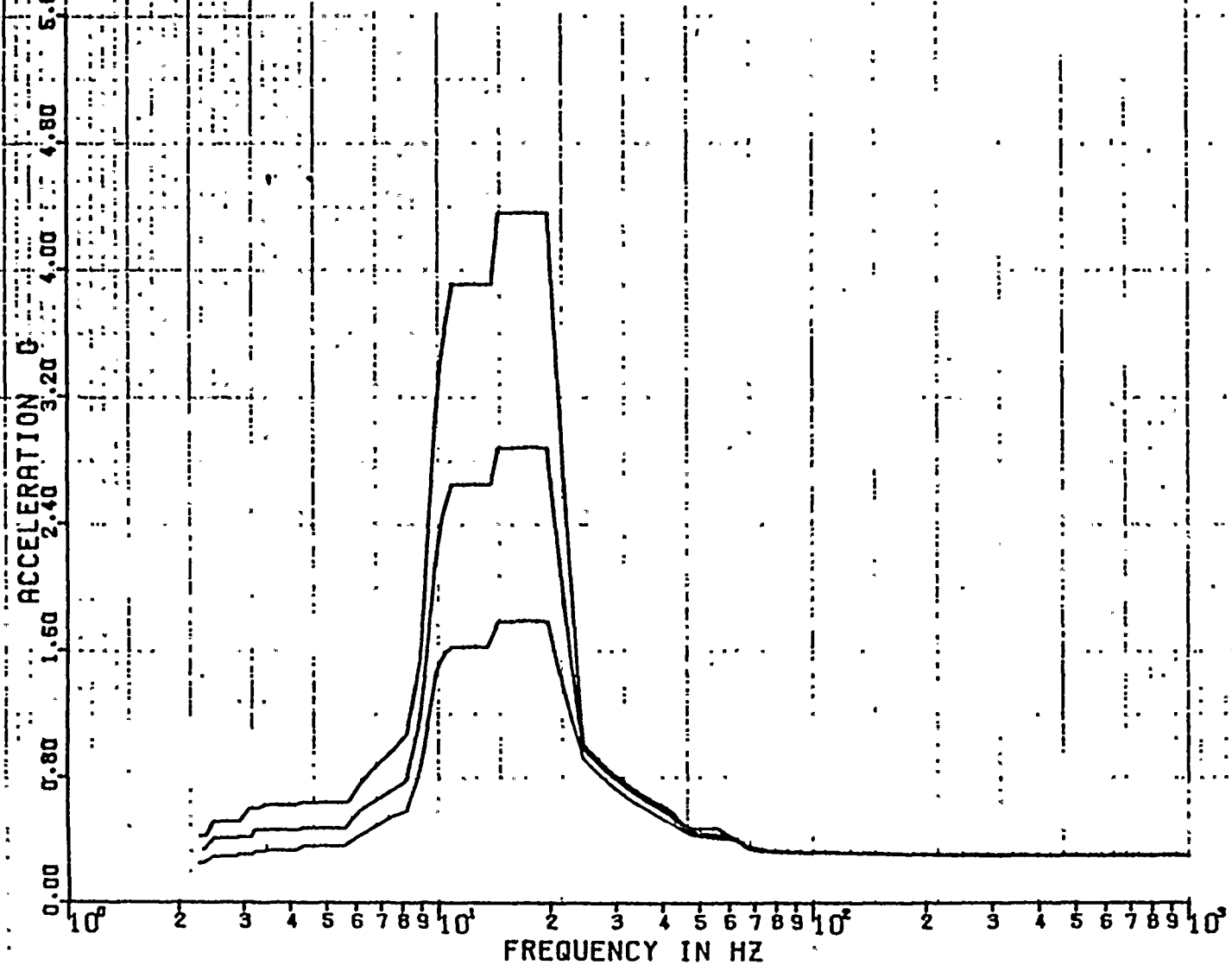
RMS OF ACCELERATION . RPV SHELL (ELEV.287.17 FT)

MS 1746

MICHAEL K OD.

DISK CURVE SET NO.16 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 46

PSPECTRA VER.01 LEV.08 FA[illegible]D CONDITION 26 JAN 1988

MIRDARA MOHAWK-NINE MILES POINT UNIT-2 U-01-12177 MS-1747-0

RMS OF ACCELERATION RPV SHELL (ELEV-278.00 FT)

MS 1747

MICHAEL K.DO

DISK CURVE SET NO.10 HDR DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2%,3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%

REF 47

00700005-3

SPECTRA VER. D1 LEV 08 FR[illegible] CONDITION: 25 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 U-D-1[illegible] MS-1747-0

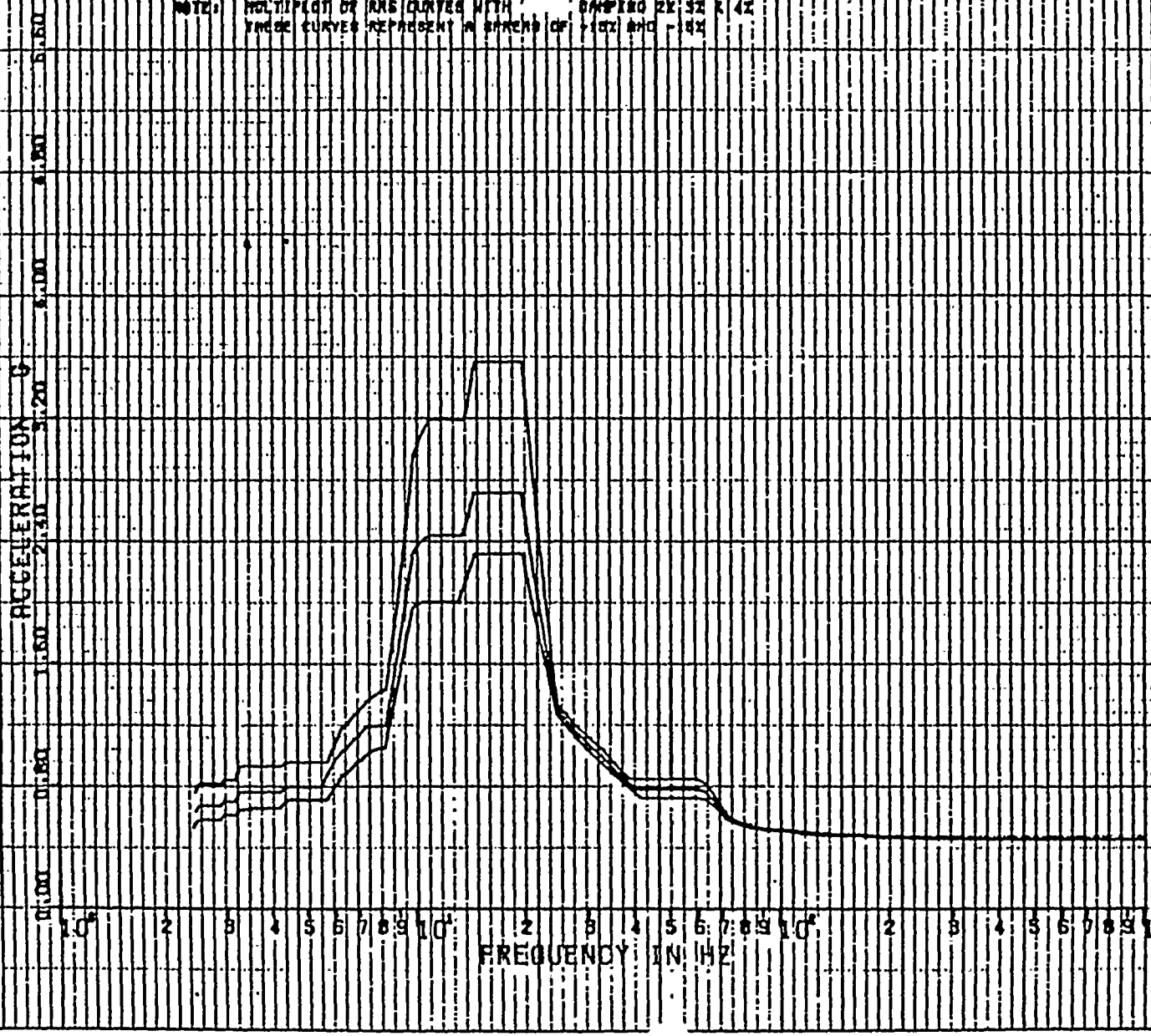
RMS OF ACCELERATION RPV SHELL (ELEV.278.00 FT)

MS 1747

MICHAEL K. DO

DISK CURVE SET NO.17 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 47

00106000054

PSPECTRA VER 01 LEV 08 PSET CONDITION 24 JAN 1988

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 177 MS-1746-0

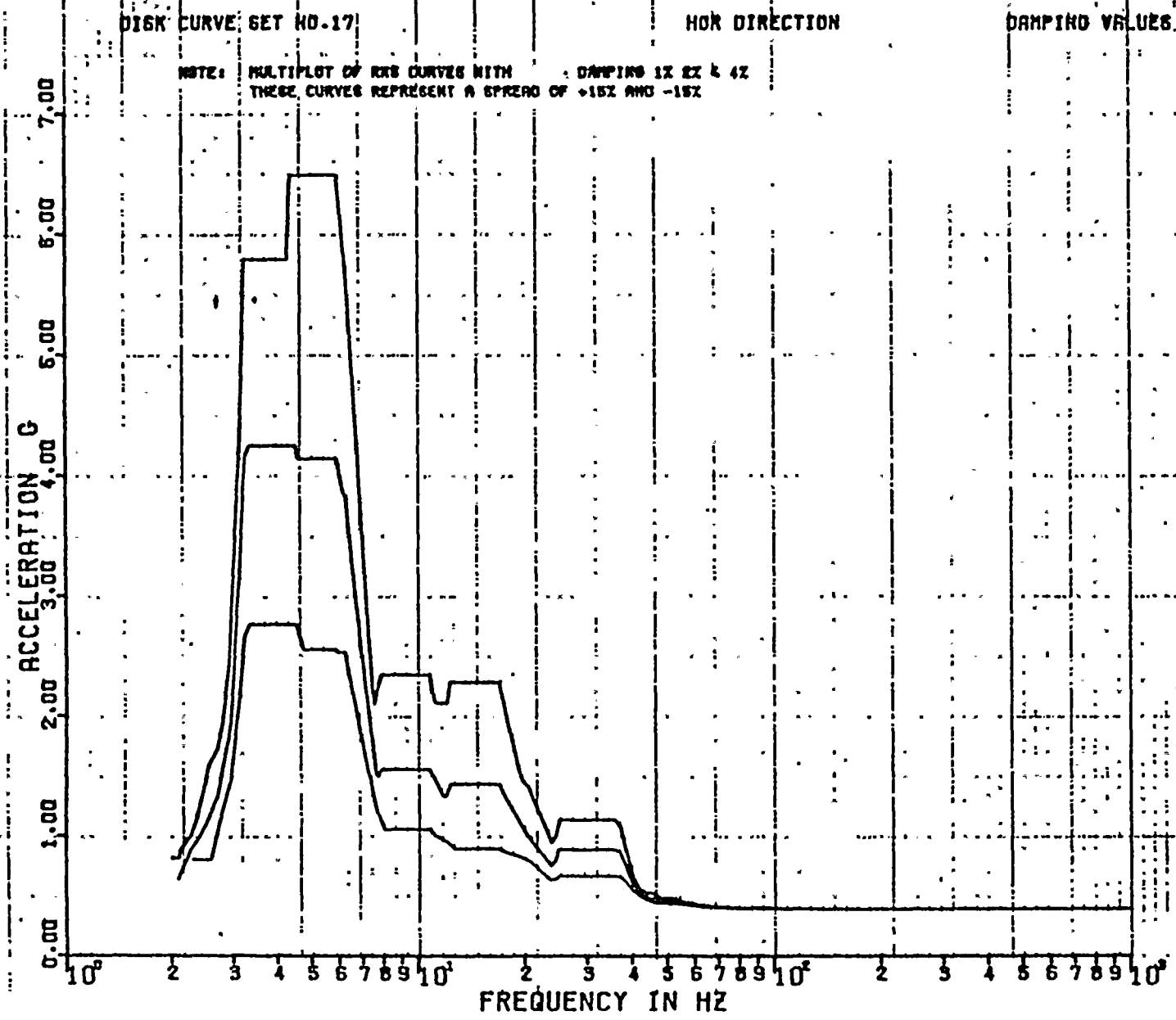
RMS OF ACCELERATION RPV SHELL (ELEV.2..00 FT)

MS 1.26

MICHAEL K OO

DISK CURVE SET NO.17 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 47

PSPECTRA VER 01 LEV 08 : U CONDITION 24 JAN 1985

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O. MS-1746-0

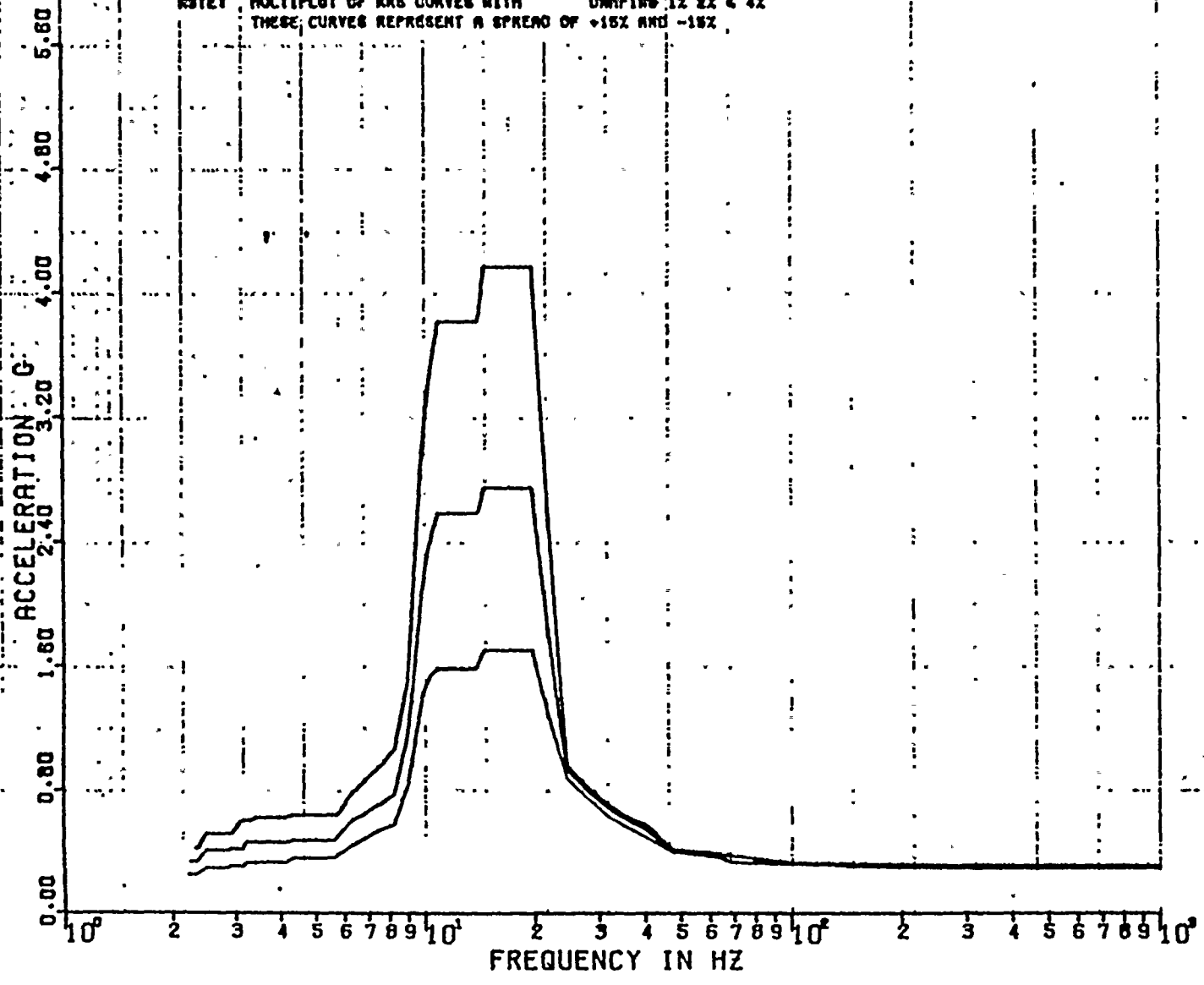
RMS OF ACCELERATION RPV SHELL (ELEV.278.0L .T)

MS 1746

MICHAEL K DO

DISK CURVE SET NO.17 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 47

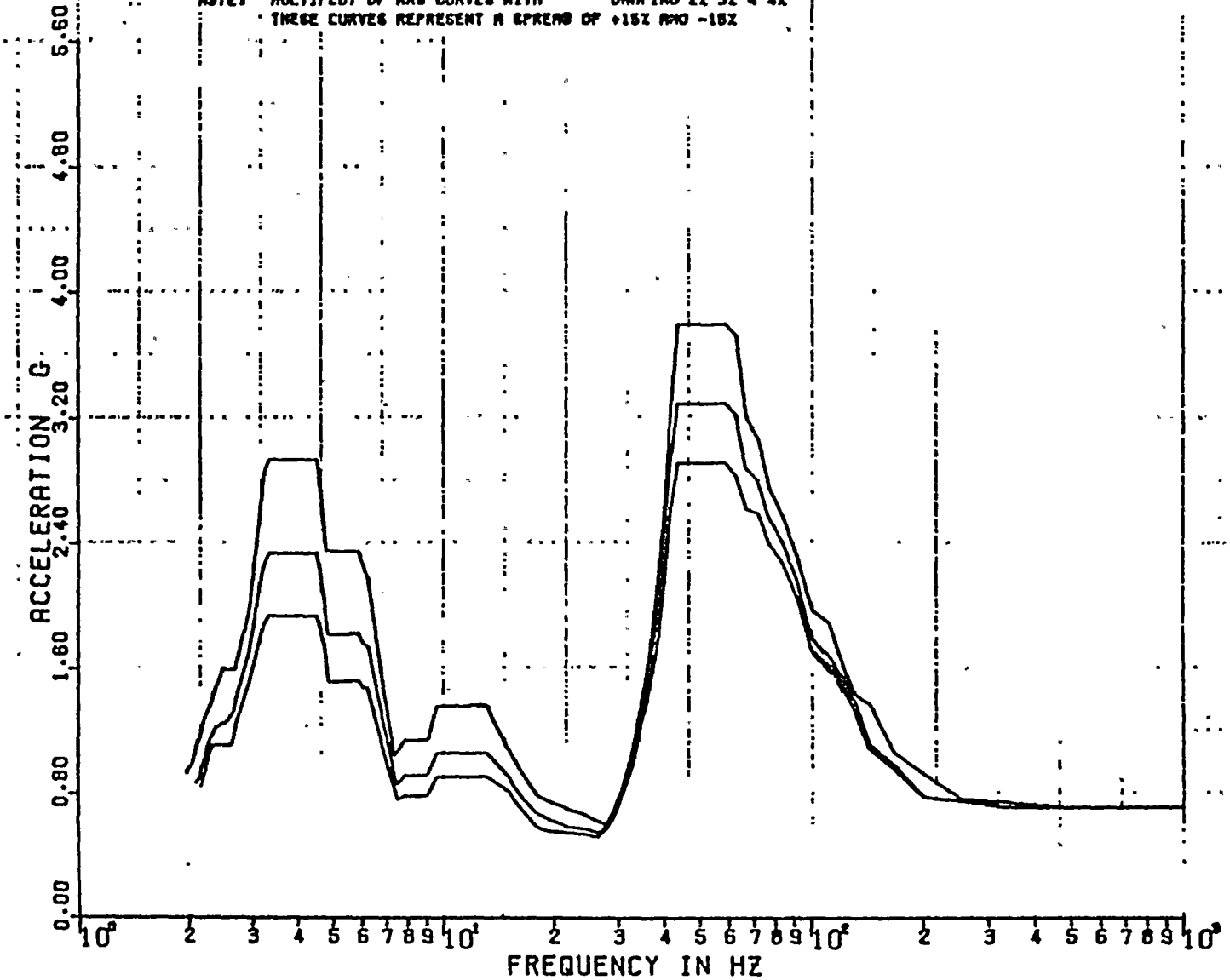
PSPECTRA VER 01 LEV 08 FAULTED CONDITION 16 FEB 1983

NIAGARA MOHAWK-NINE MILES UNIT POINT-2 J.O.12177 MS-1747-0
RRS OF ACCELERATION DRYWELL FLOOR (ELEV. 298.00 FT.)

MICHAEL K OO

DISK CURVE SET NO.1 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 48

PSPECTRA VER 01 LEV 08 FAULT CONDITION 16 FEB 1989

NIAGARA MOHAWK-NINE MILES UNIT POINT-2 J.O.12177 MS-1747-0

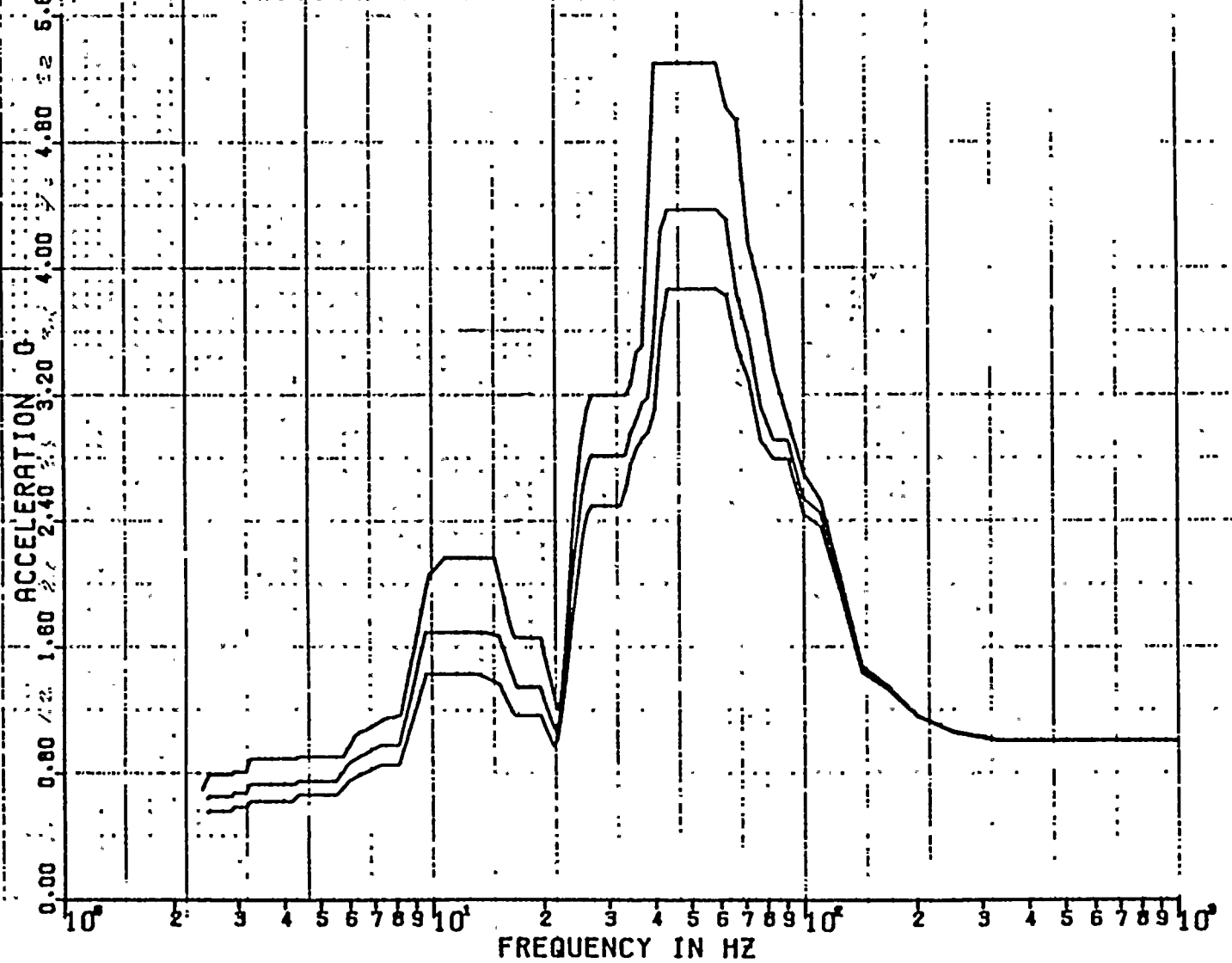
RRS OF ACCELERATION DRYWELL FLOOR (ELEV. 238.00 FT.)

MICHAEL K OO

DISK CURVE SET NO.1 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 4B

PSPECTRA VER 01 LEV 08 UPE[illegible] VDITION 16 FEB 1988

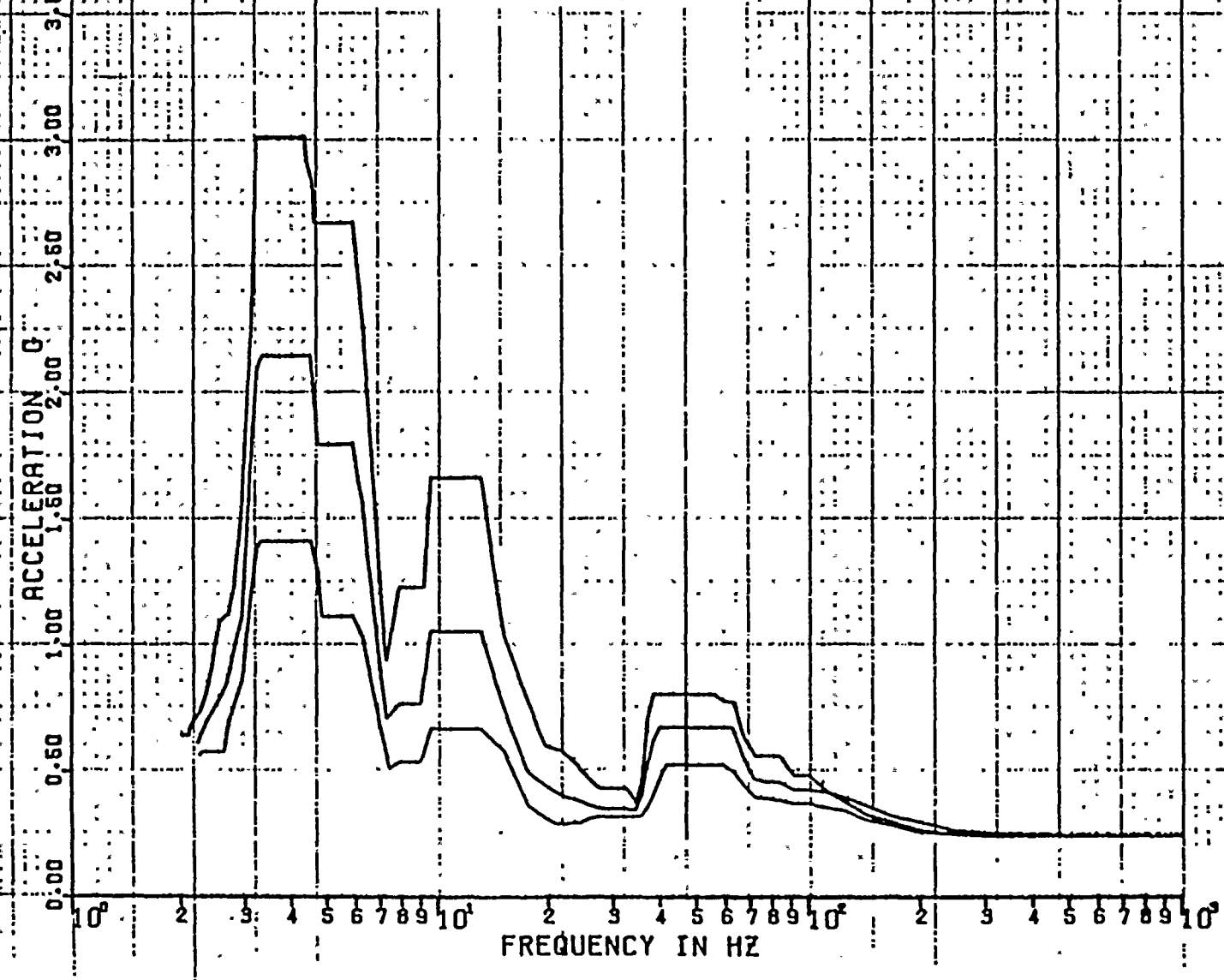
NIAGARA MOHAWK-NINE MILES UNIT POINT-2 J.O.[illegible] M6-1746-0

RRS OF ACCELERATION DRYWELL FLOOR (ELEV. 238.00 FT.)

MICHAEL K.OO

DISK CURVE SET NO.1 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 48

PSPECTRA VER 01 LEV 06 UP DITION 15 FEB 1989

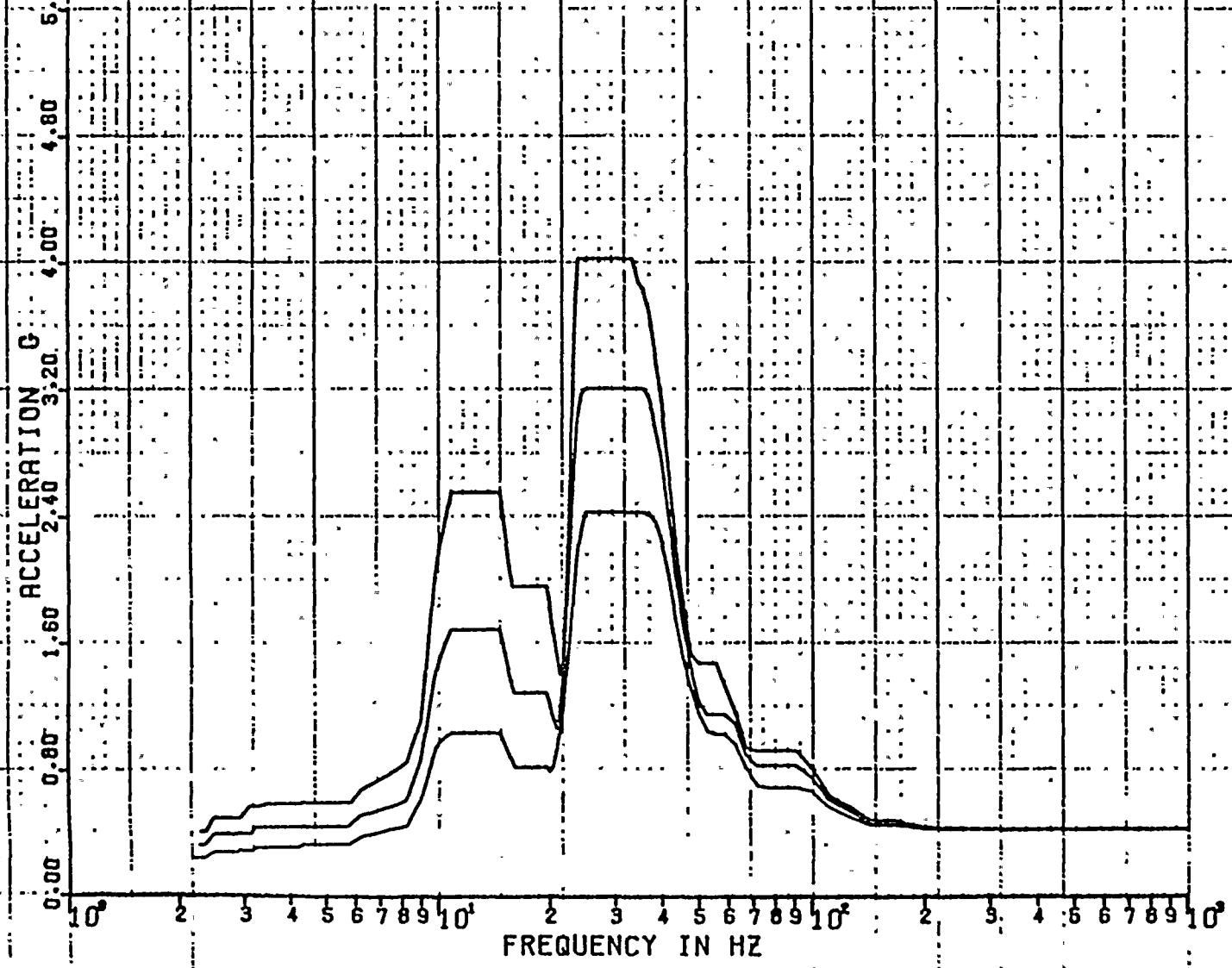
MIADARA MOHAWK-NINE MILES UNIT POINT-2 J.O.12177 M6-1746-0

RRS OF ACCELERATION : DRYWELL FLOOR (ELEV. 238.00 FT.)

MICHAEL K 00

DISK CURVE SET NO.1 VER DIRECTION DAMPING VALUES = 0.010
0.020
0.040

NOTES: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 48

PSPECTRA VER 01 LEV 08 FAU[illegible] CONDITION 25 JAN 1988

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 01-12177 MS-1747-0

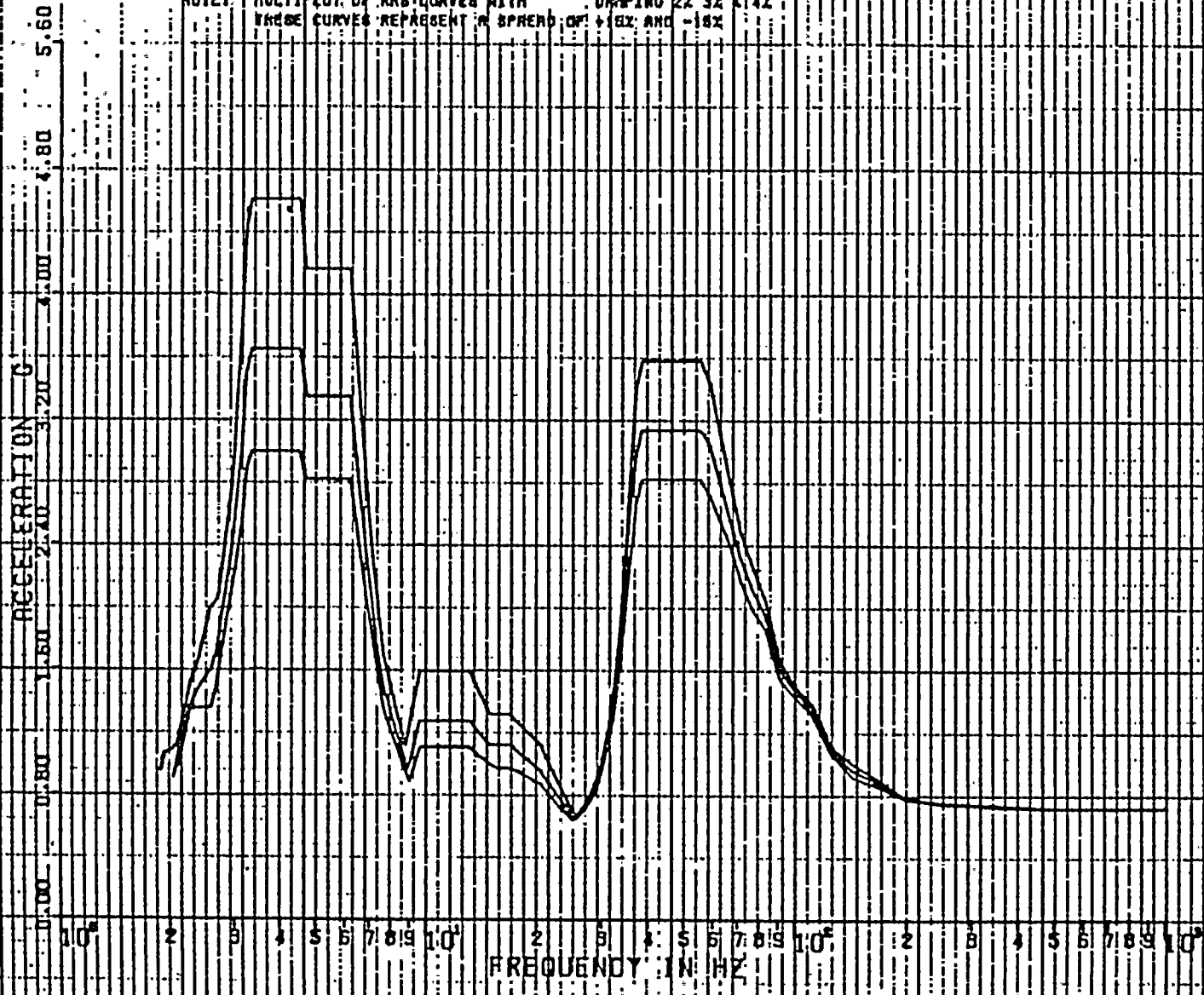
RRS OF ACCELERATION PEDESTAL (ELEV.266.50 FT.)

MS 1747

MICHAEL K. DO

DISK CURVE SET NO.1B HOR DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 49

PAGE 4-57

PSPECTRA VER. DI LEV 00 FF 0 CONDITION: 25 JAN 1988

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O. 7 MS-1747-0

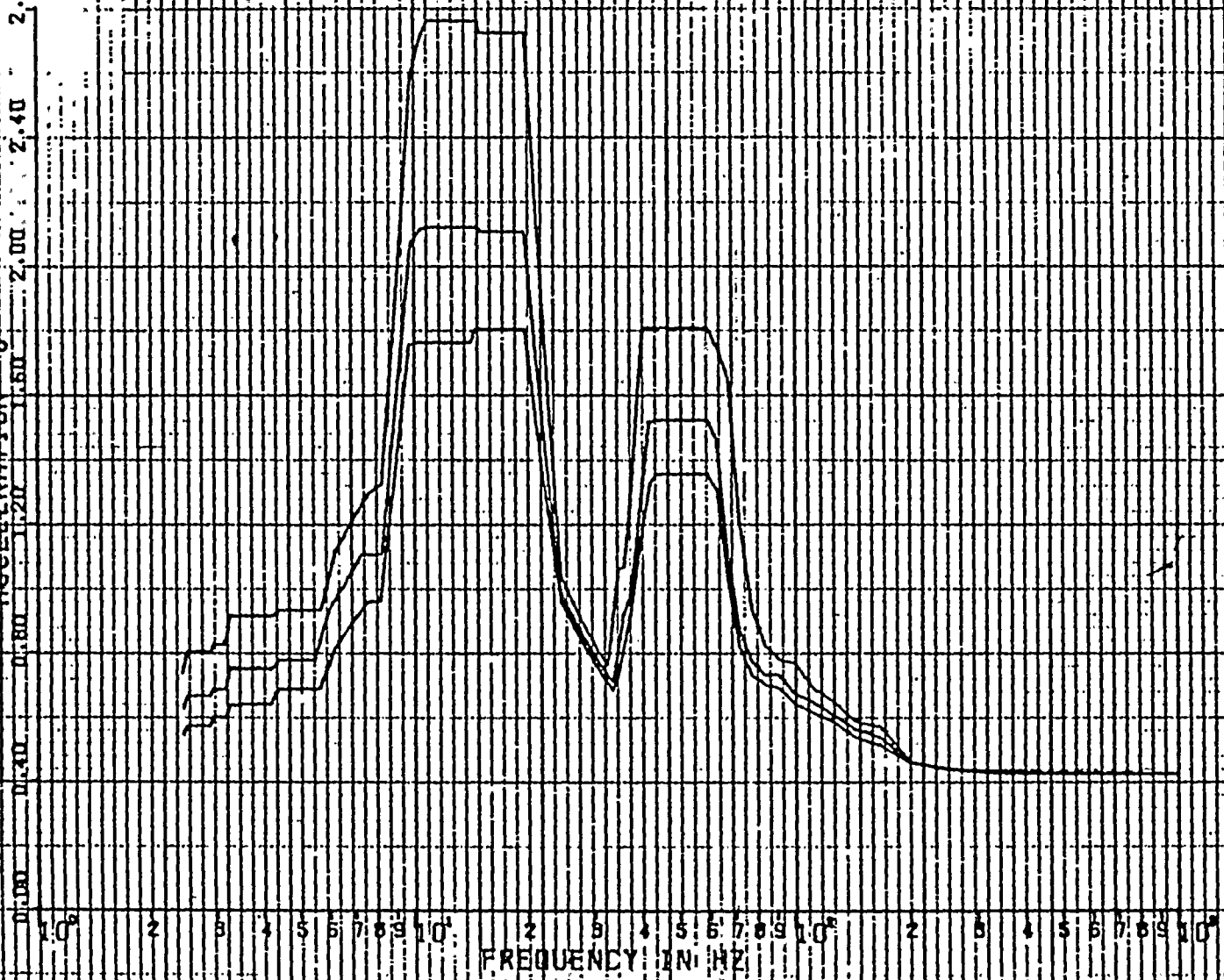
RRS OF ACCELERATION PEDESTAL ELEV-266.50 FT.

MS 1747

MICHAEL R. DD

DISK CURVE SET NO-18 VER DIRECTION. DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF ARS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 49

PSPECTRA VER 01 LEV 08 CONDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12.77 MS-1746-0

RMS OF ACCELERATION PEDESTAL (ELEV.266.50 FT.)

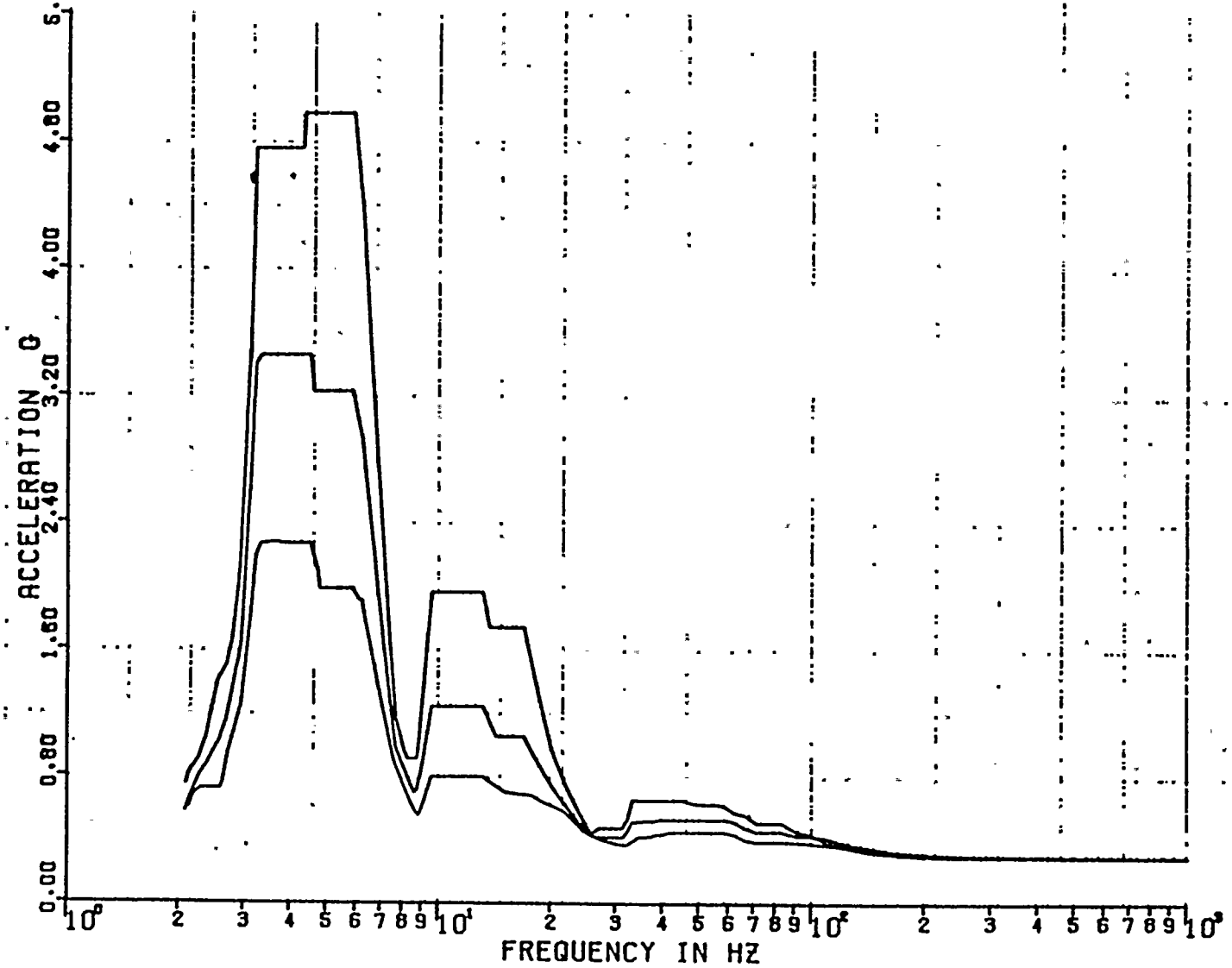
MS 1746

MICHAEL K OO

DISK CURVE SET NO.18 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 48

PSPECTRA VER 01 LEV 08 CONDITION 24 JAN 1985

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12 MS-1746-0

RMS OF ACCELERATION PEDESTAL (ELEV.266.50 FT.)

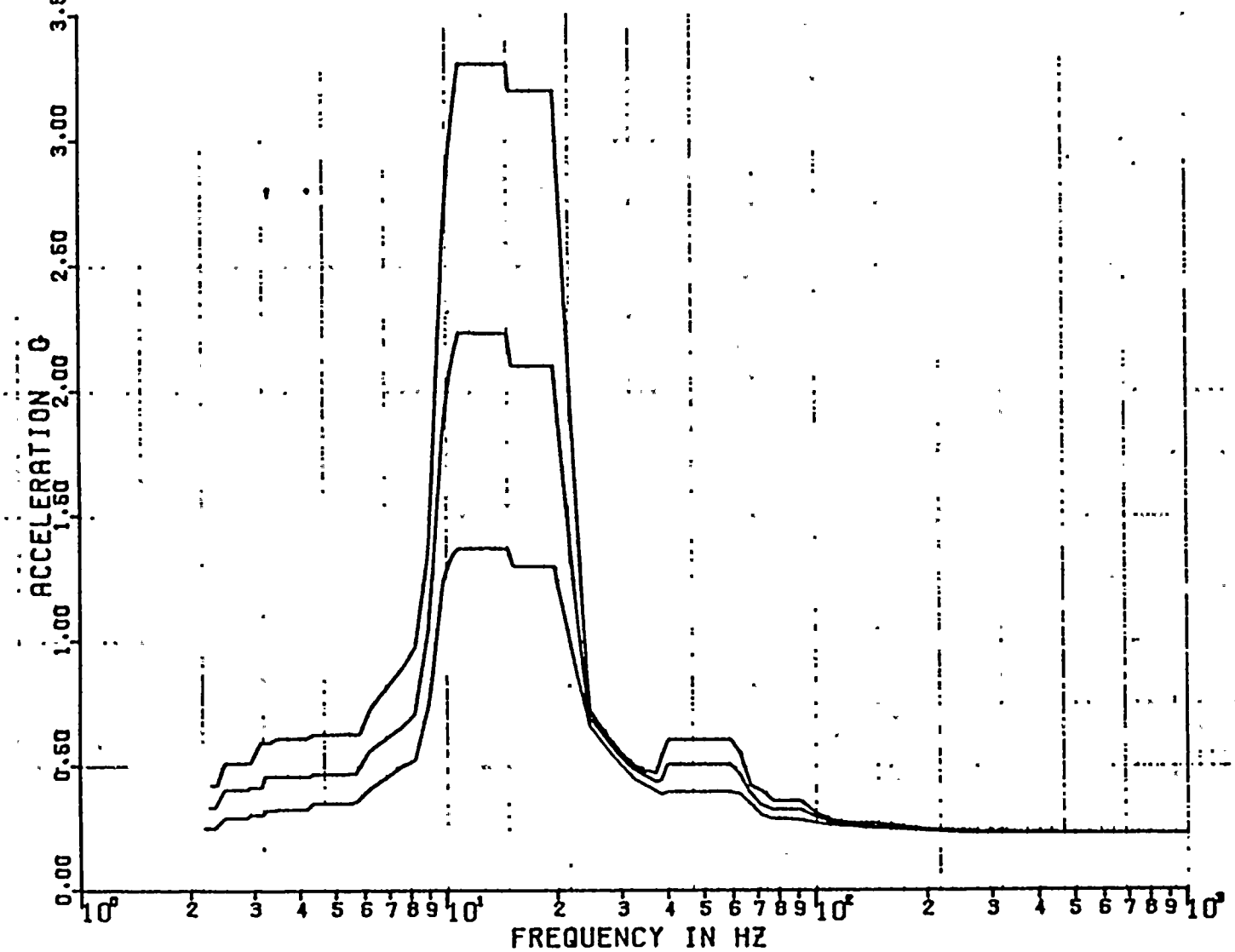
MS 1746

MICHAEL K OO

DISK CURVE SET NO.18 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 49

PSPECTRA VER.01 LEV.08 FAULT CONDITION. 25 JAN 1989

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 U.D.12177 MS-1747-D

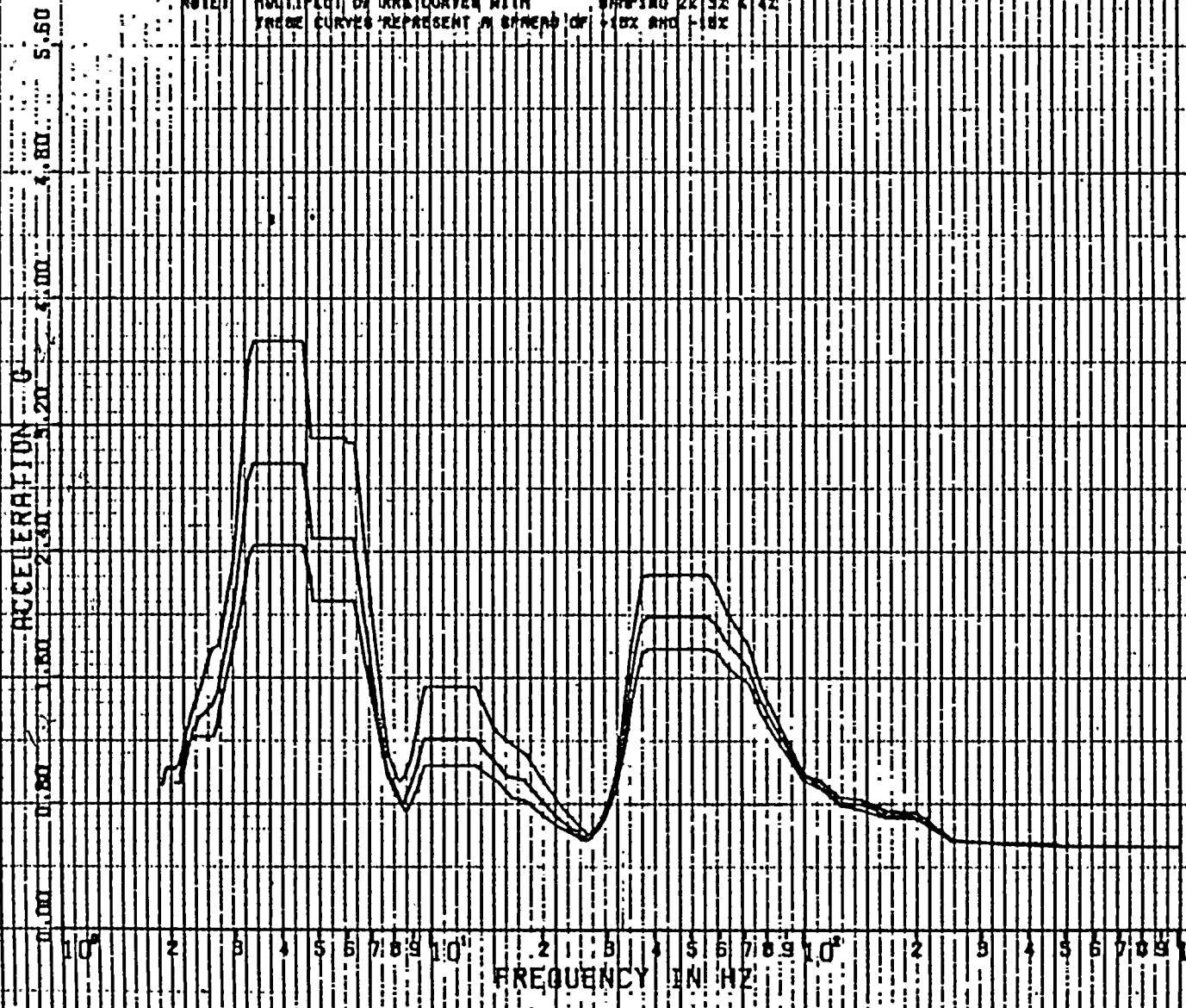
RMS OF ACCELERATION PEDESTAL (ELEV. 253.13 FT)

MS 1747

MICHAEL KIDD

DISK CURVE SET NO.19 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 50

PSPECTRA VER 01 LEV 08 F[illegible]TED CONDITION 26 JAN 1988

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 U.O.12177 MS-1747-0

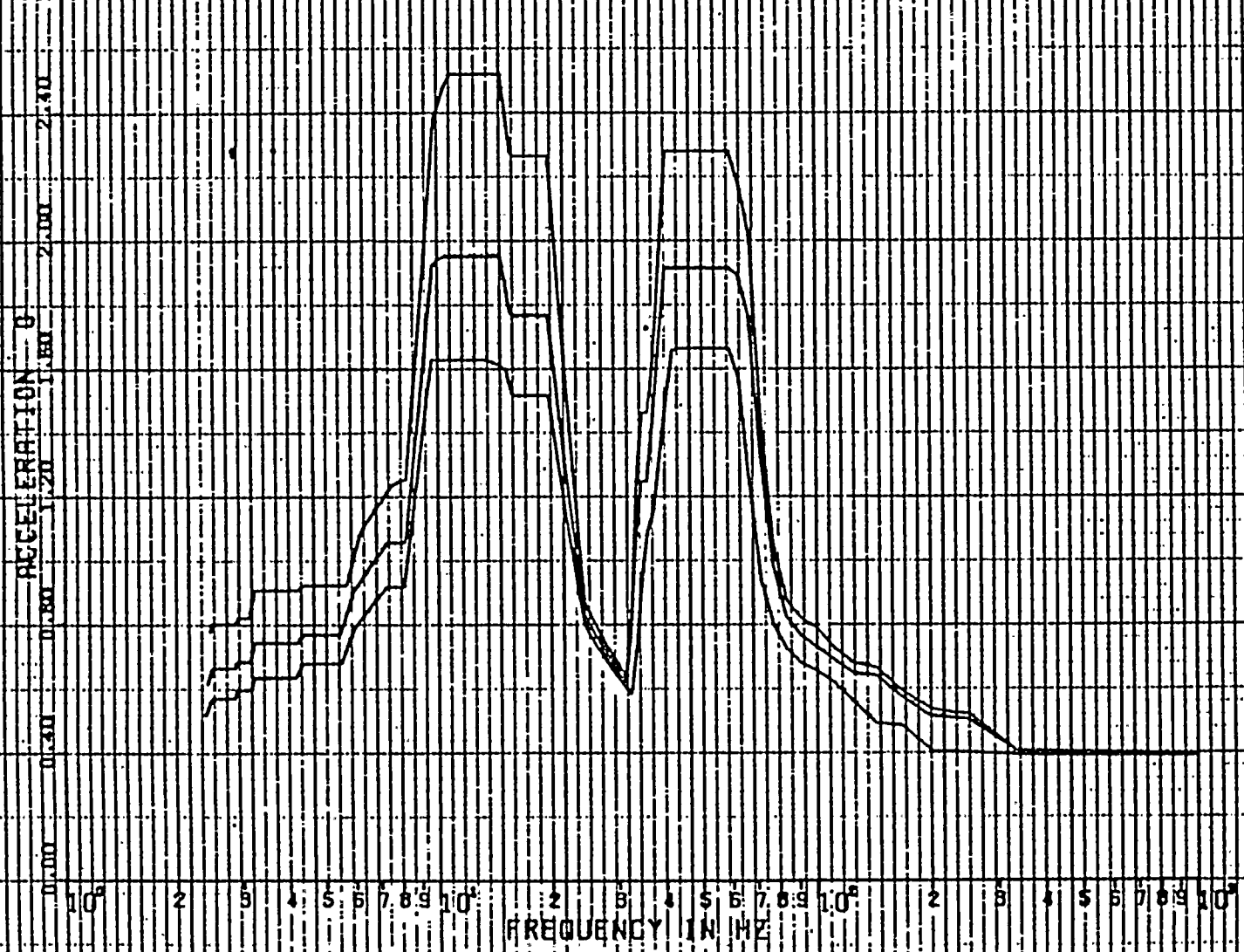
RRS OF ACCELERATION PEDESTAL (ELEV. 259.13 FT)

MS 1747

MICHAEL R. DO

DISK CURVE SET NO.19 VER DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 50

PSPECTRA VER 01 LEV 08 L[illegible] CONDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.1[illegible] / MS-1746-0

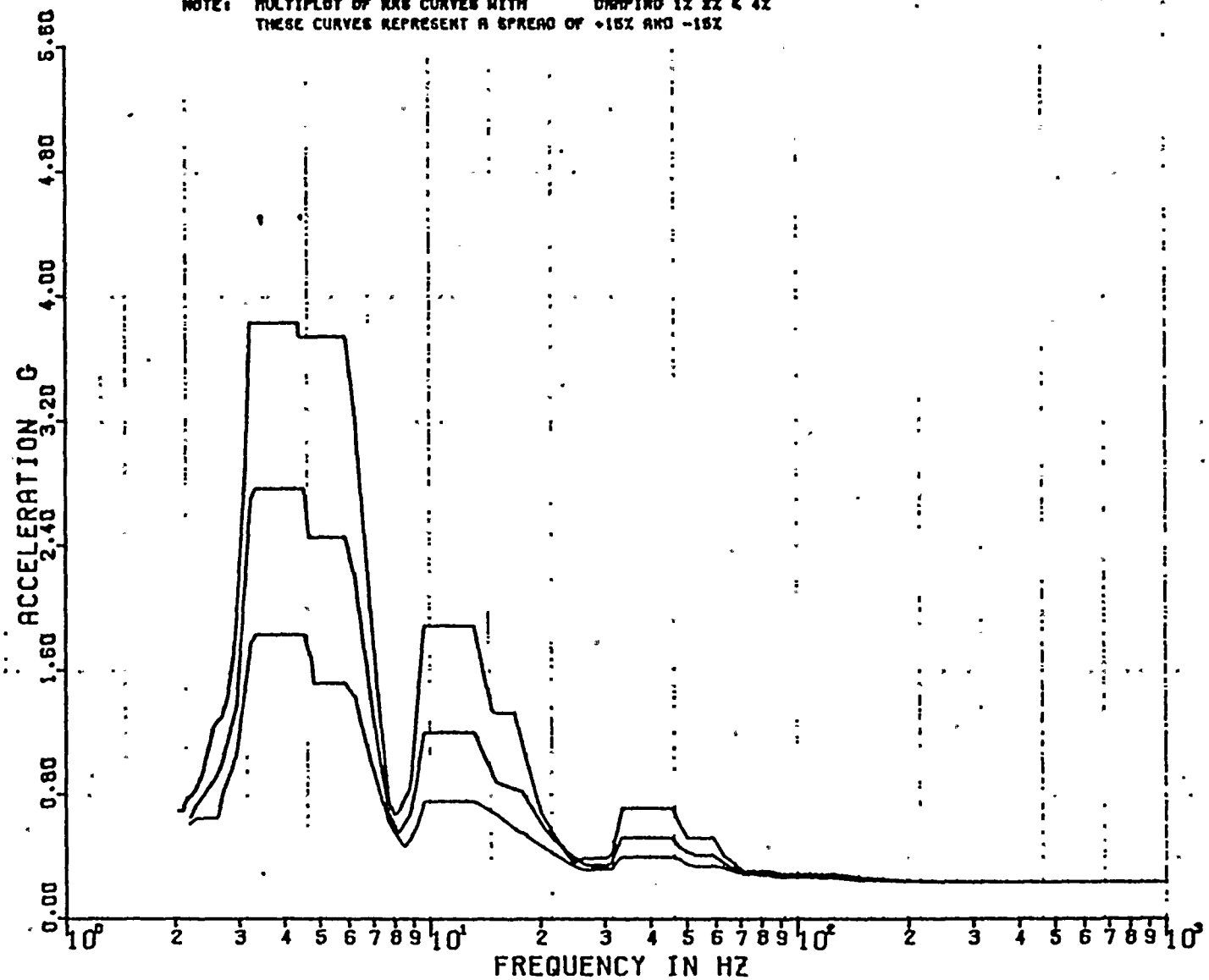
RMS OF ACCELERATION PEDESTAL (ELEV. 253.13 FT)

MS 1746

MICHAEL K OO

DISK CURVE SET NO.19 HOR DIRECTION DAMPING VALUES = 0.010, 0.020, 0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 50

PSPECTRA VER 01 LEV 08 CONDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O. . . MS-1746-0'

RRS OF ACCELERATION PEDESTAL (ELEV. 253.13 FT)

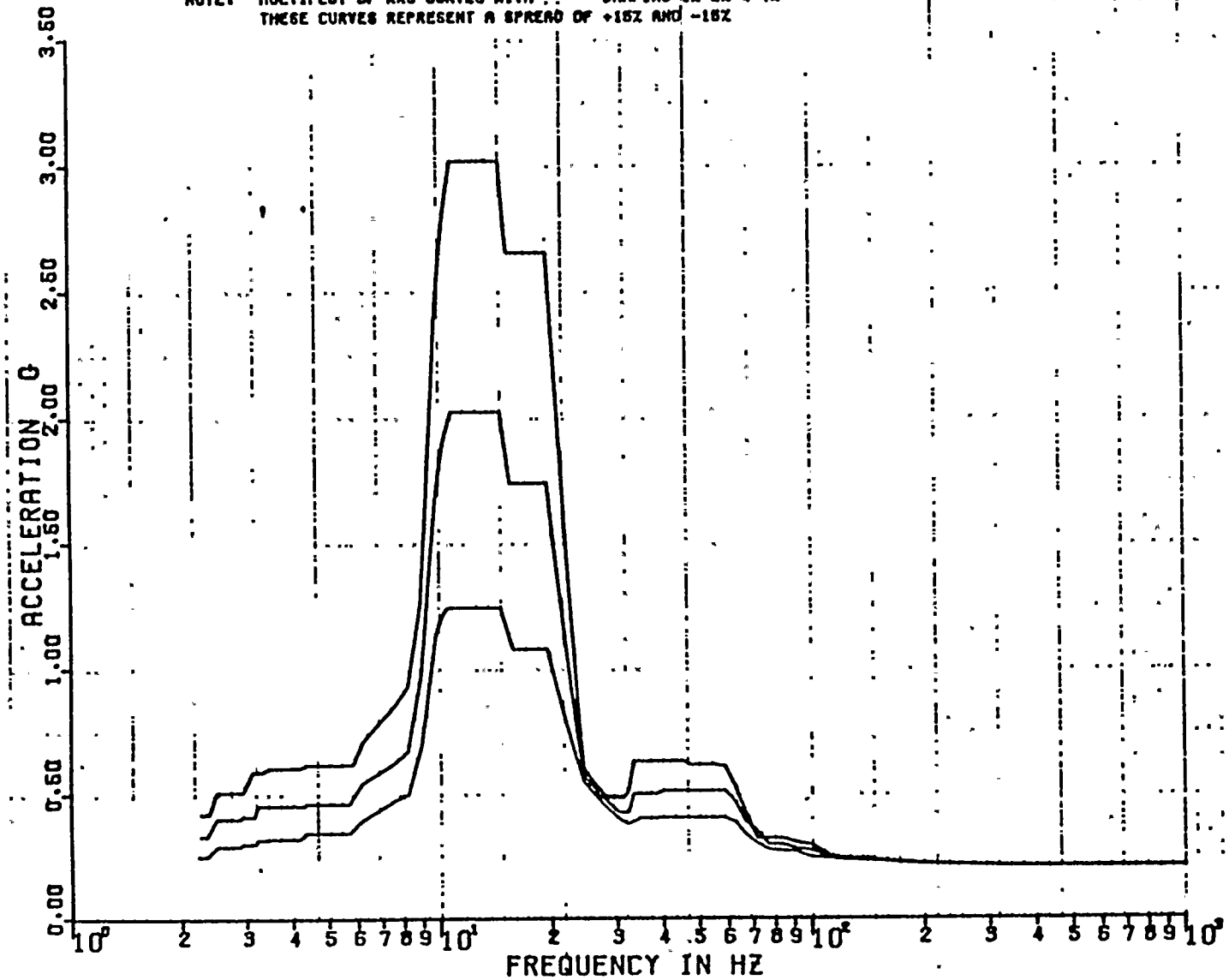
MS 1746

MICHAEL K DO

DISK CURVE SET NO.19 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 50

PSPECTRA VER 01 LEV 08 OLTED CONDITION 4 MAR 1983

NIAGARA MOHAWK-NINE MILES UNIT POINT-2 J.O.12177 MS-1747-0

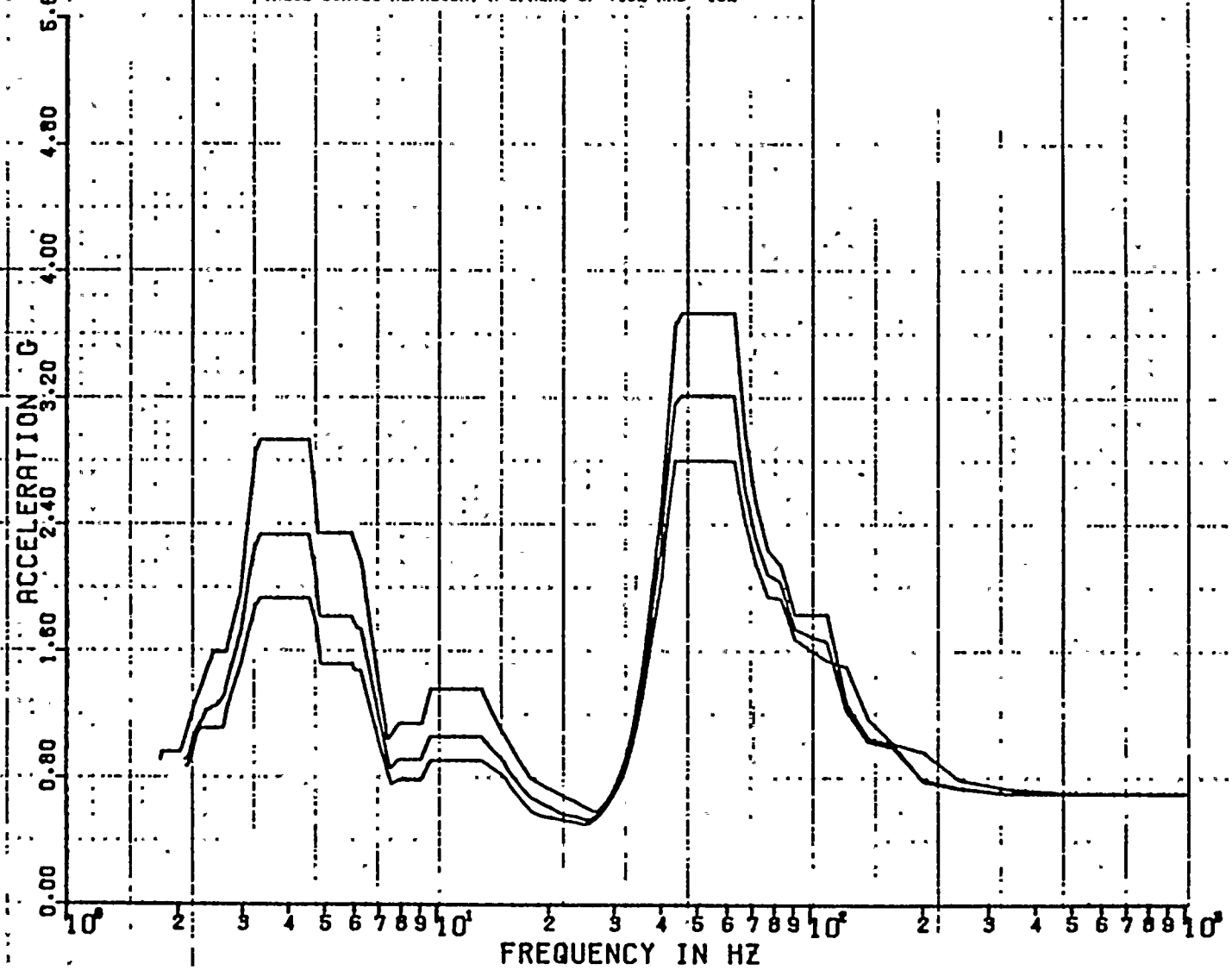
RRS OF ACCELERATION PEDESTAL (ELEV. 238.00 FT.)

MICHAEL.K OO

DISK CURVE SET NO.1 HOR DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 51

PSPECTRA VER 01 LEV 08 ULTED CONDITION 4 MAR 1983

NIAGARA MOHAWK-NINE MILES UNIT POINT-2 J.O.12177 MS-1747-0

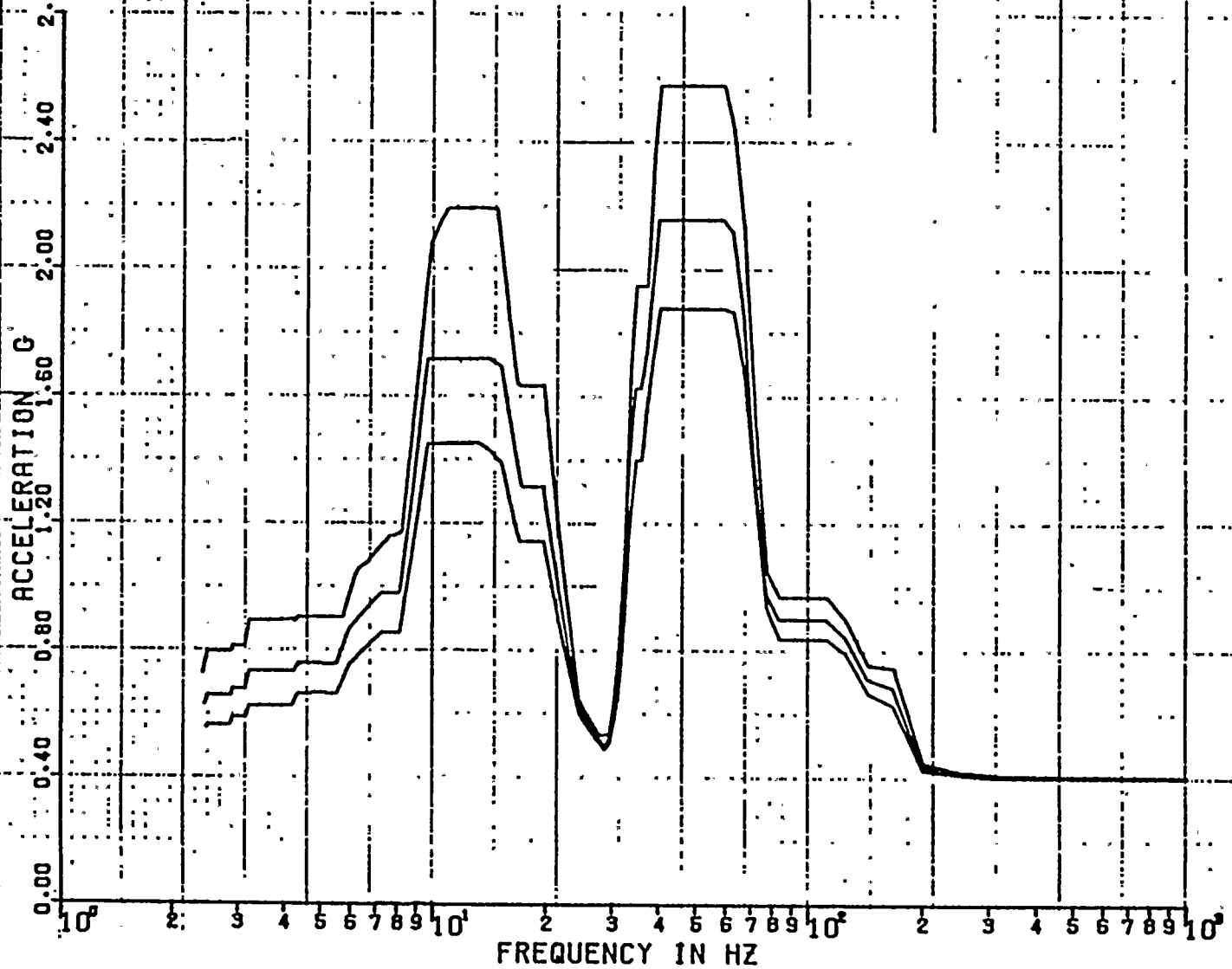
RRS OF ACCELERATION PEDESTAL (ELEV. 238.00 FT.)

MICHAEL K DO

DISK CURVE SET NO.1 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 51

PSPECTRA VER 01 LEV 08 ET CONDITION 4 MAR 1983

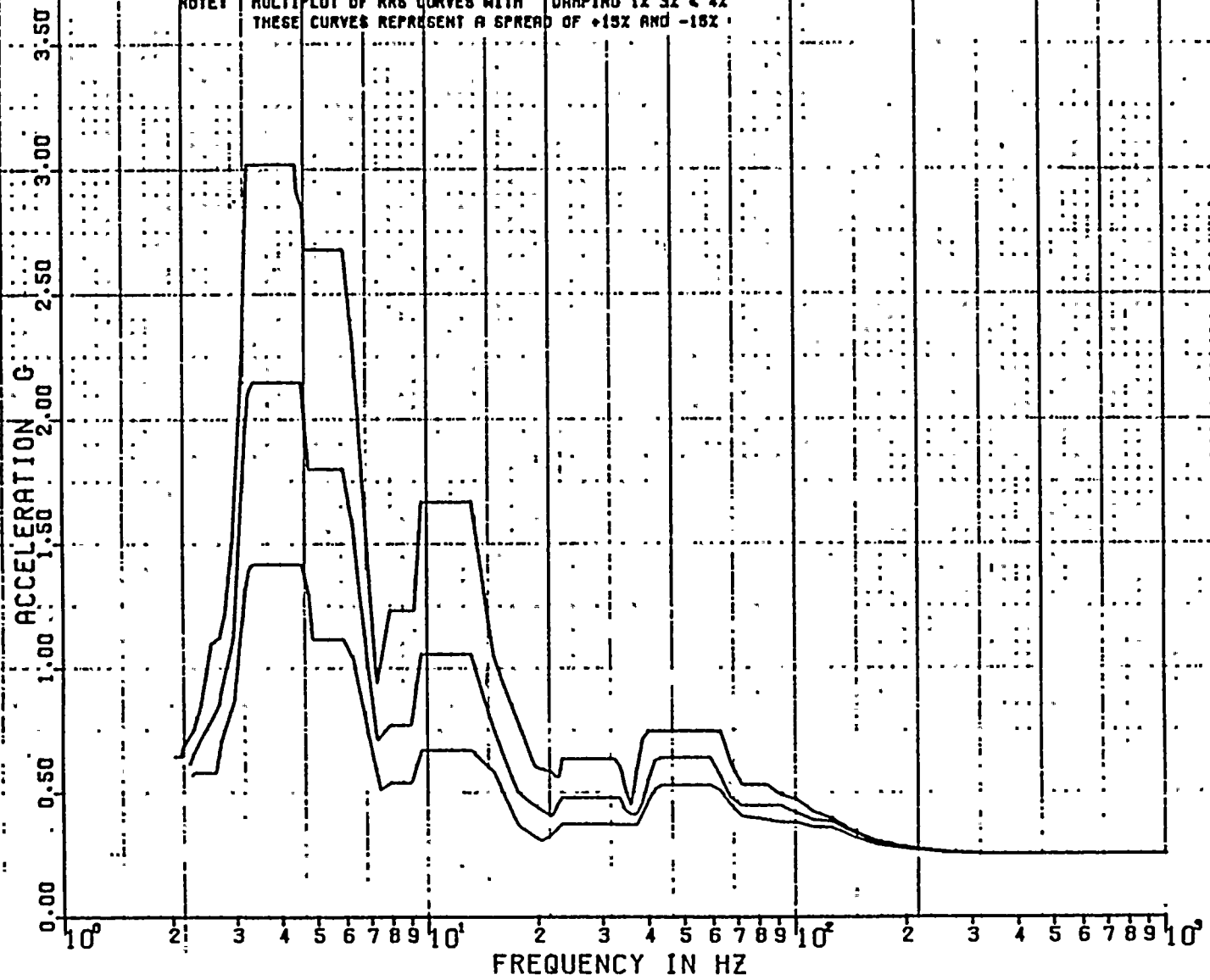
NIAGARA MOHAWK-NINE MILES UNIT POINT-2 J.O.12177 MS-1746-0

RRS OF ACCELERATION . PEDESTAL. (ELEV. 298.0 FT.)

MICHAEL K DO

DISK. CURVE SET NO.1 HOR DIRECTION DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 51

PSPECTRA VER 01 LEV 08 UP[illegible]ITION 4 MAR 1988

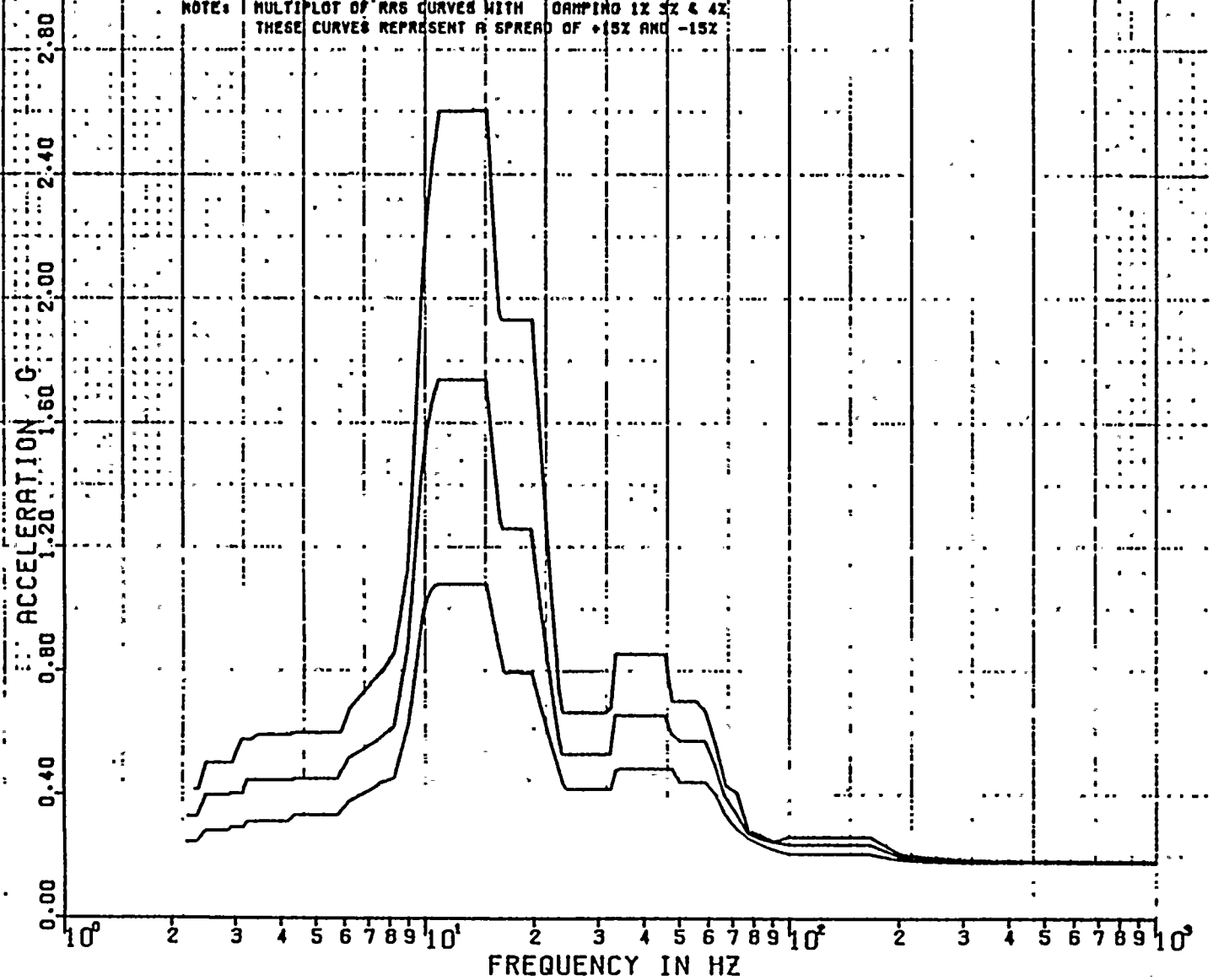
NIAGARA MOHAWK-NINE MILES UNIT POINT-2 J.O.12177 MS-1746-0

RRS OF ACCELERATION : PEDESTAL (ELEV. 298.0 FT.)

MICHAEL.K.DO

DISK CURVE SET NO.1 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 51

PSPECTRA VER.01 LEV.00 :D CONDITION 26 JAN 1988

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.:2177 MS-1747-0

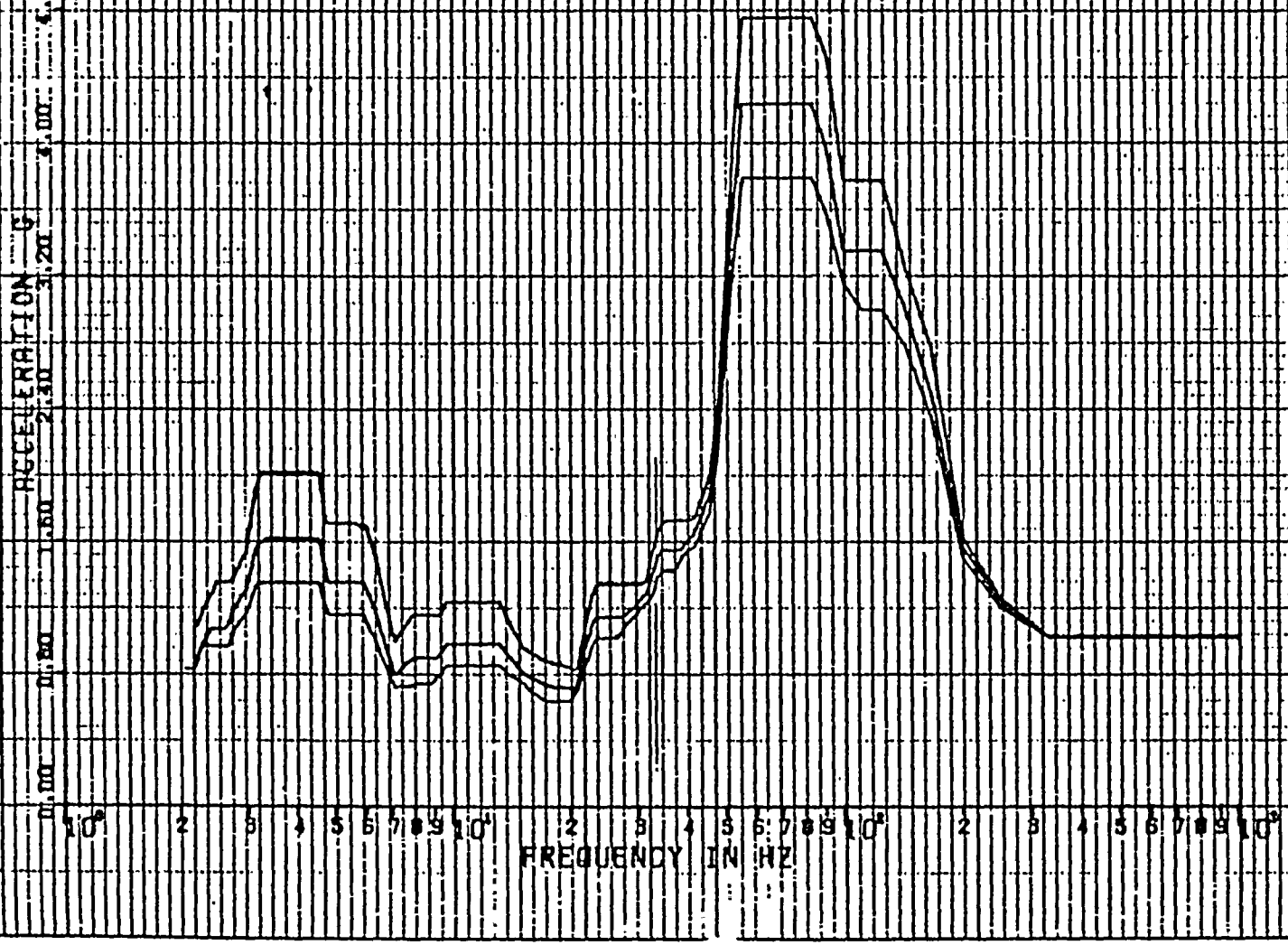
RMS OF ACCELERATION: PEDESTAL (ELEV.217.50 FT)

MS 1747

MICHAEL K DO

DISK CURVE SET NO.20 HOR DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2%,3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 52

PSPECTRA VER. 01 LEV 08 FAUL CONDITION 26 JAN 1989

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1747-0

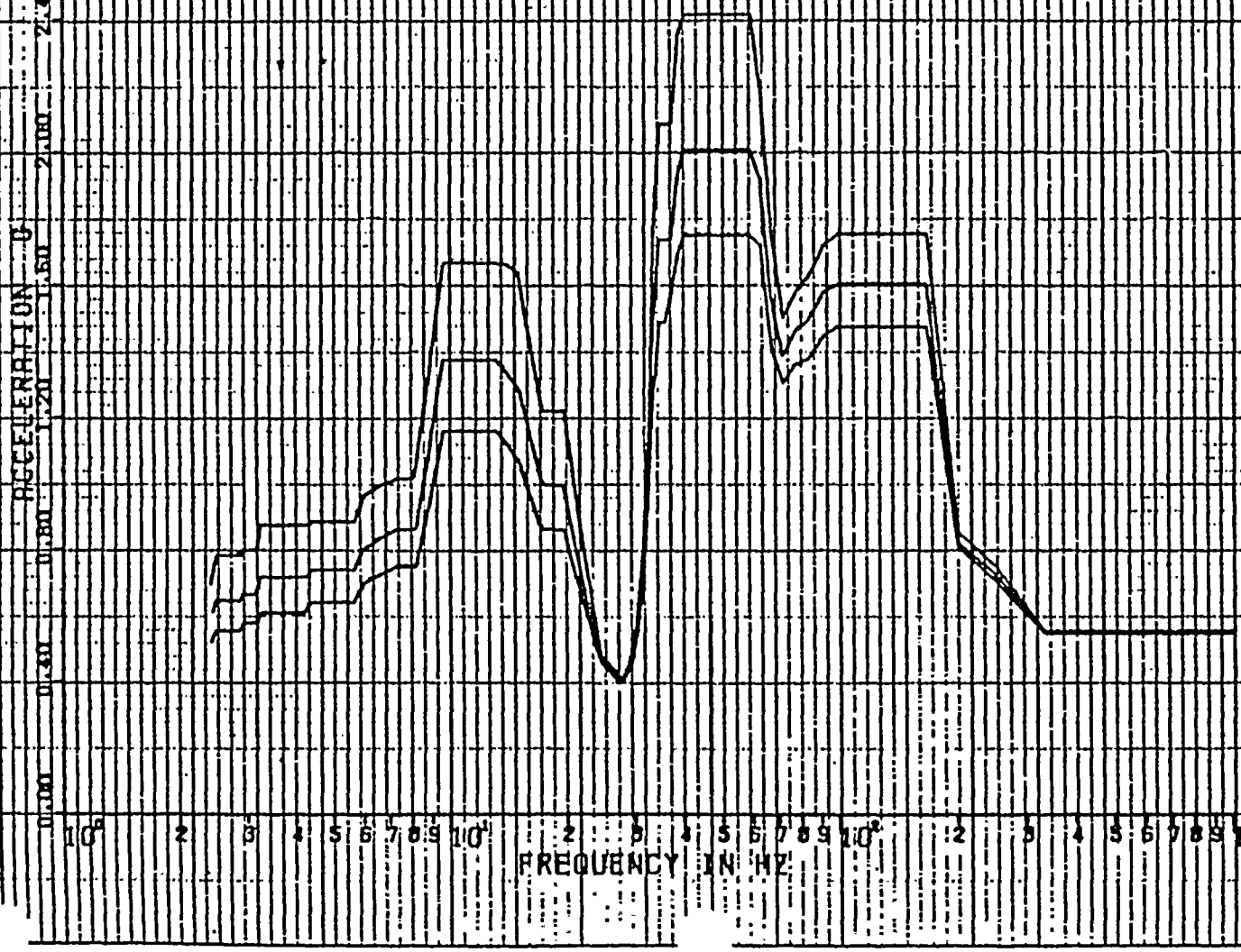
RMS OF ACCELERATION. PEDESTAL (ELEV.217.50 FT)

MS 1747

MICHAEL KIDD

DISK CURVE SET NO.20 VER DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2%,3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 52

PSPECTRA VER 01 LEV 08 U CONDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12..7 MS-1746-0

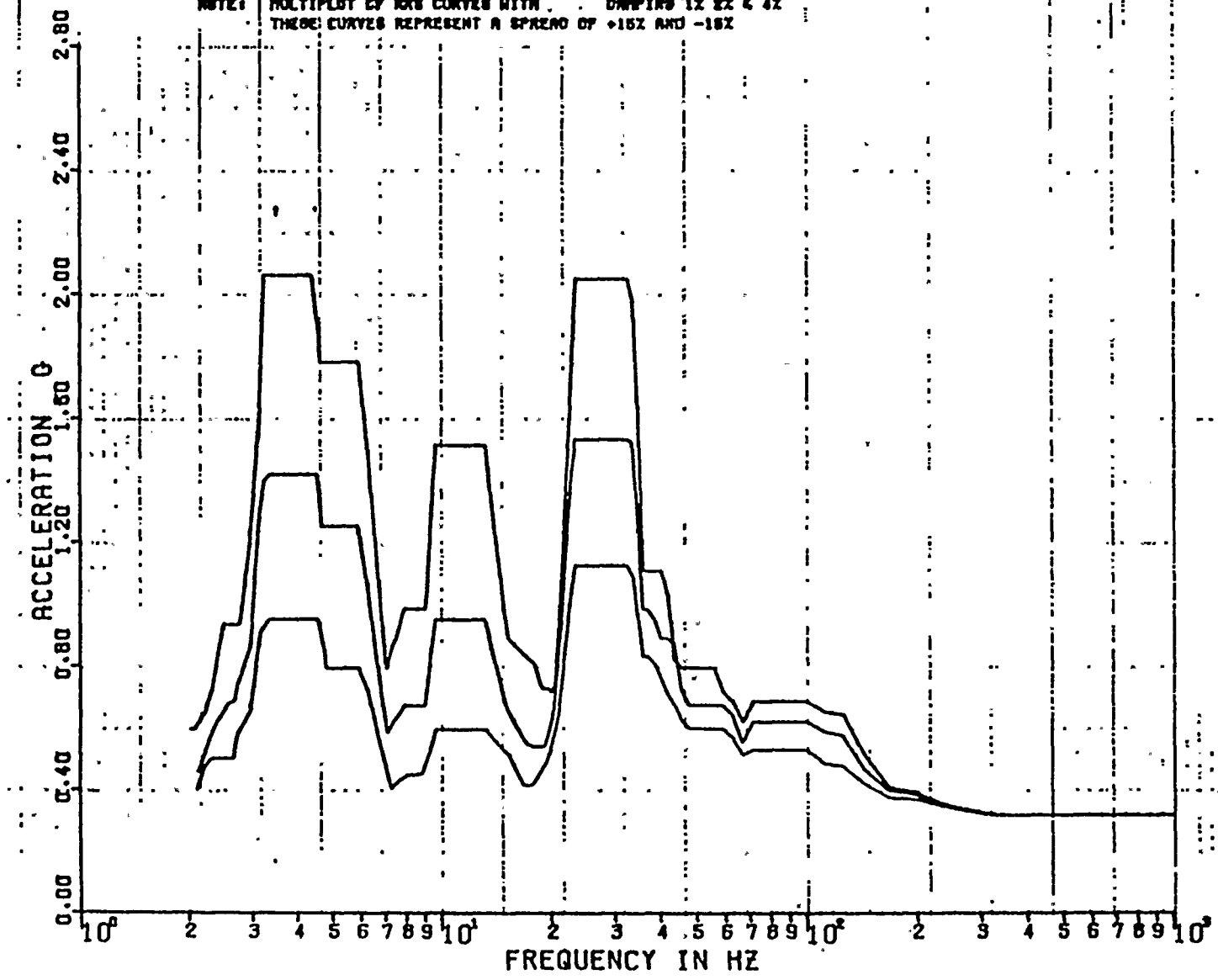
RRS OF ACCELERATION PEDESTAL (ELEV.217.50 FT)

MS 1746

MICHAEL K OD

DISK CURVE SET NO.20 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 52

PSPECTRA VER 01 LEV 08 CONDITION 24 JAN 1988

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.[illegible]/7 MS-1746-0

RMS OF ACCELERATION PEDESTAL (ELEV.217.50 FT)

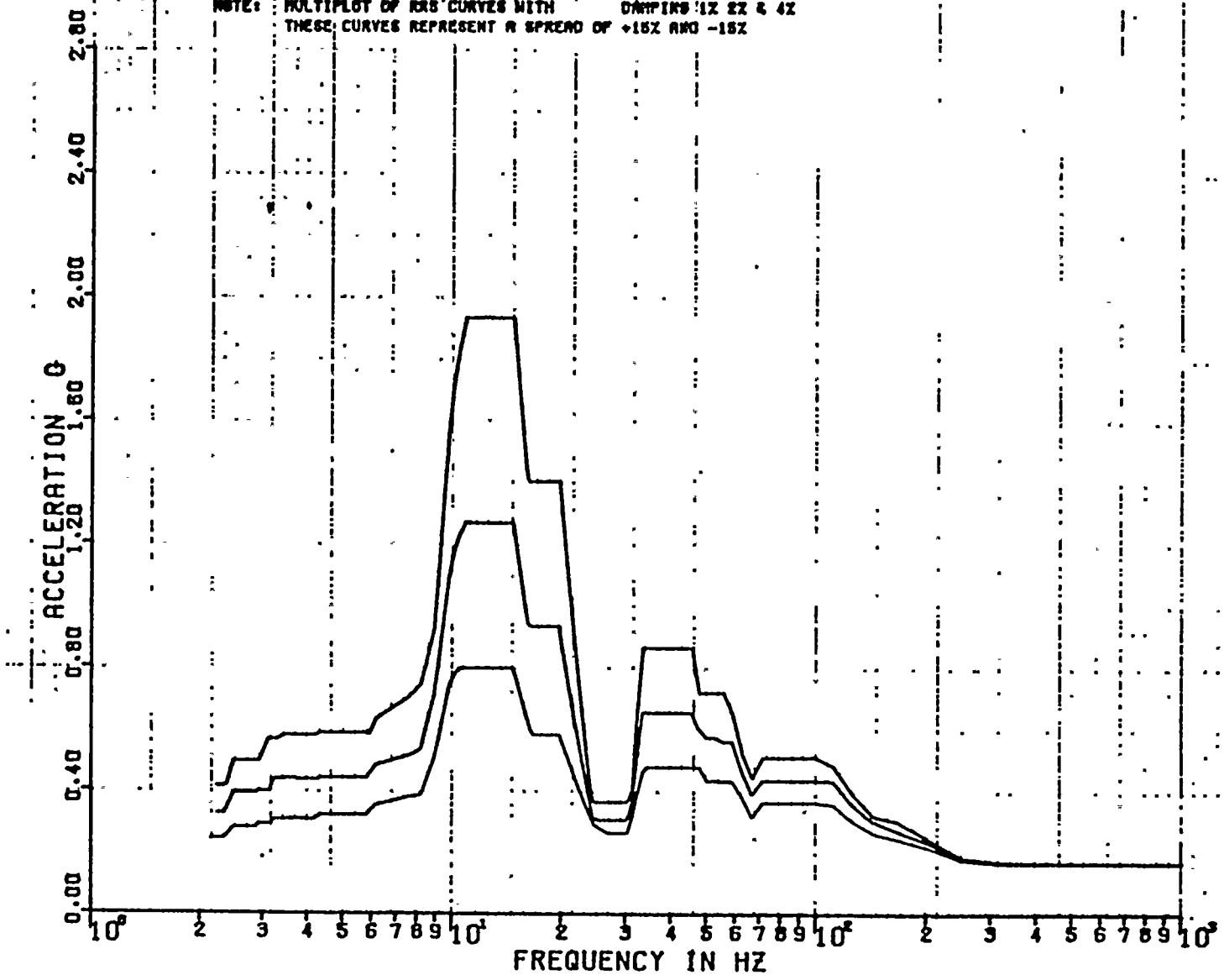
MS 1746

MICHAEL K DO.

DISK CURVE SET NO.20 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 52

PSPECTRA VER 01 LEV 08 FA[illegible]b CONDITION. 25 JAN 1988

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1747-0

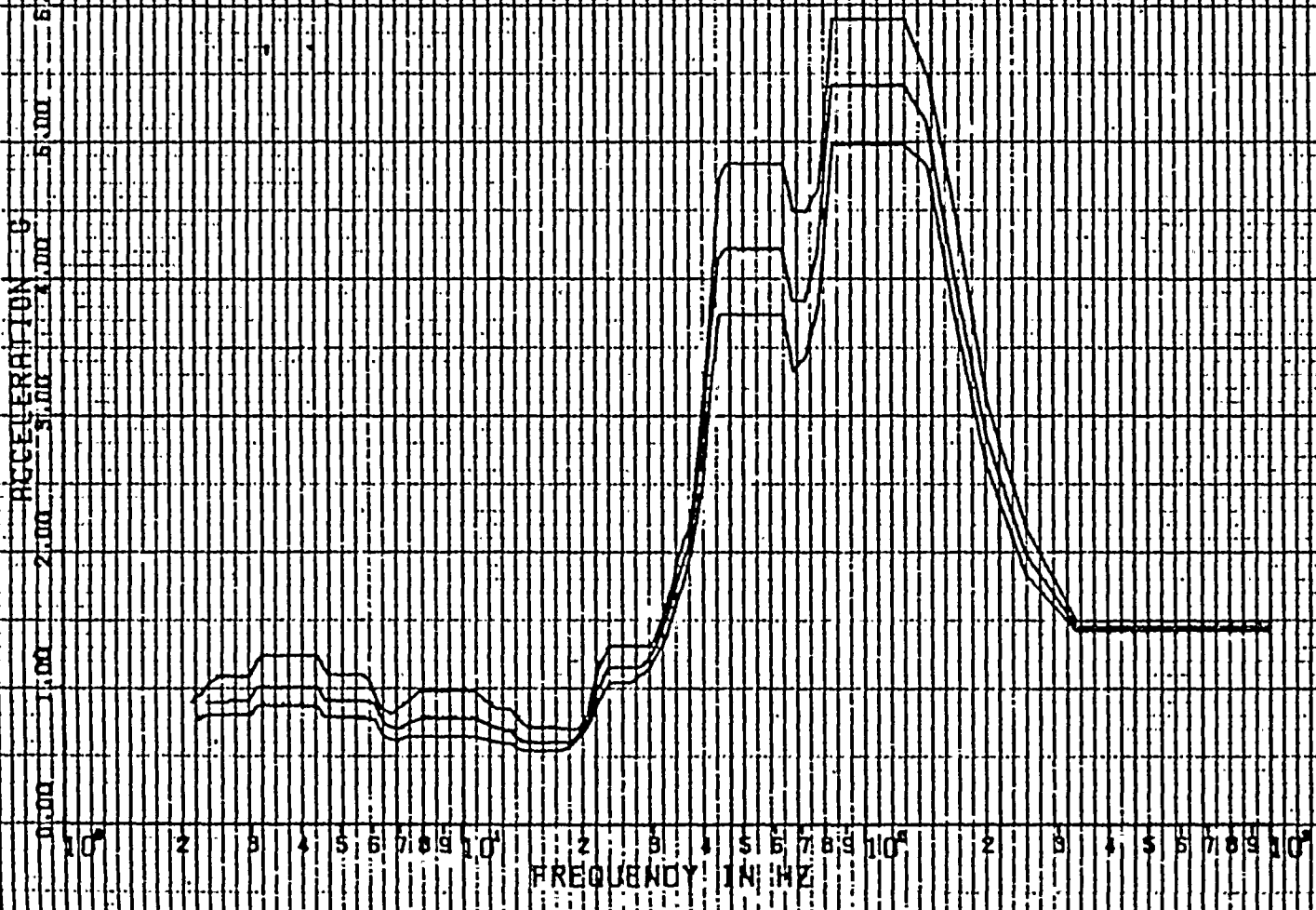
RRS OF ACCELERATION PEDESTAL (ELEV.196.25 FT.)

MS 1747

MICHAEL K. OD

DISK. CURVE SET NO.21 HOR DIRECTION DAMPING VALUES = 0.020 0.080 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2%,5% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 53

PSPECTRA VER: 01 LEV 08 TED CONDITION 26 JAN 1988

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 0.0.12.77 MS-1747-0

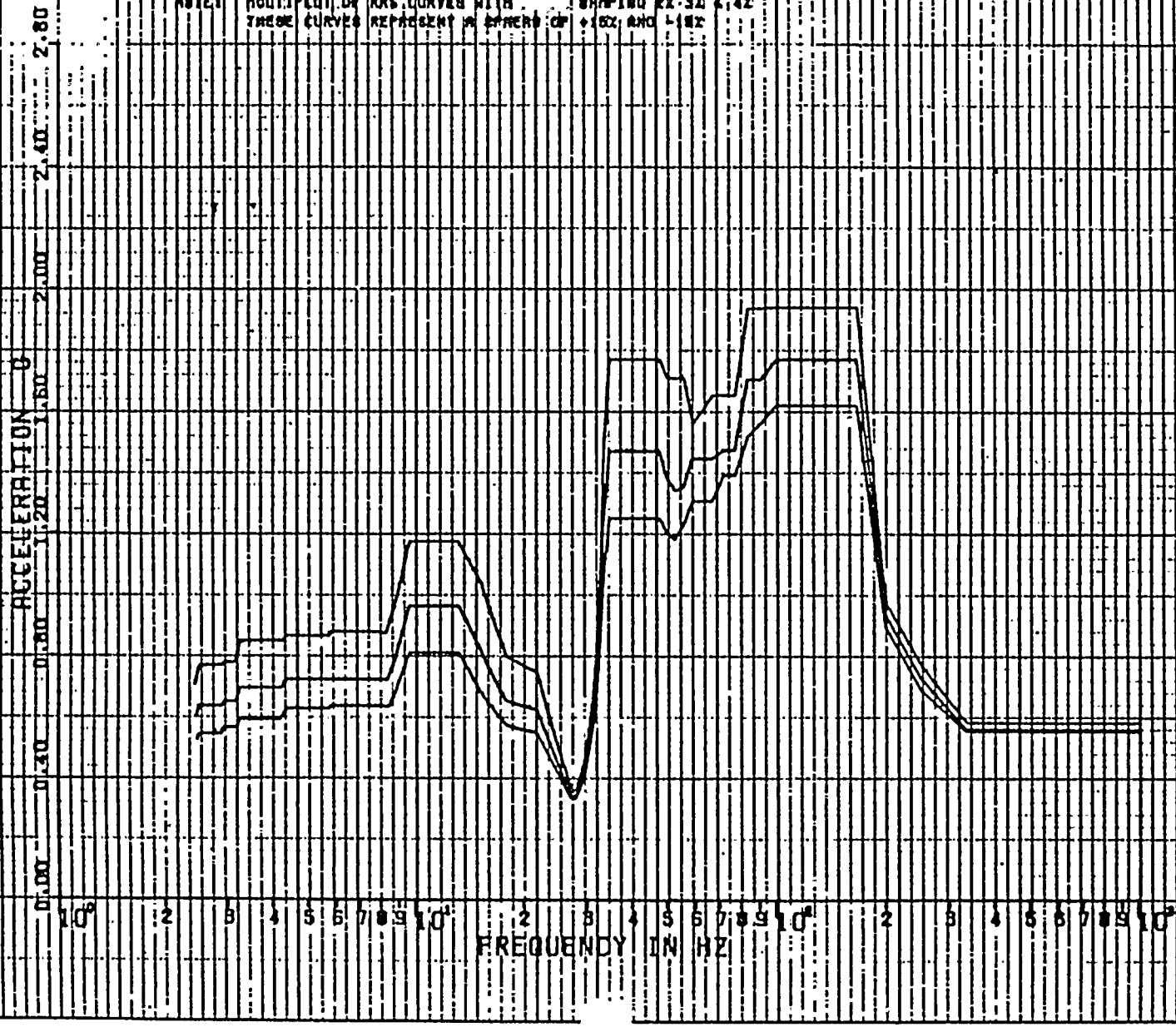
RMS OF ACCELERATION PEDESTAL (ELEV 196.25 FT.)

MS 1747

MICHAEL K. DO

DISK CURVE SET NO.21 VER DIRECTION DAMPING VALUES = 0.020 0.030 0.050

NOTE: MULTIPLOT OF RMS CURVES WITH SAMPING RX SZ 4.4Z
THESE CURVES REPRESENT A SPACING OF +18% AND -18%



REF 53

PSPECTRA VER 01 LEV 08 CONDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12.. MS-1746-0

RRS OF ACCELERATION PEDESTAL (ELEV.196.25 FT.)

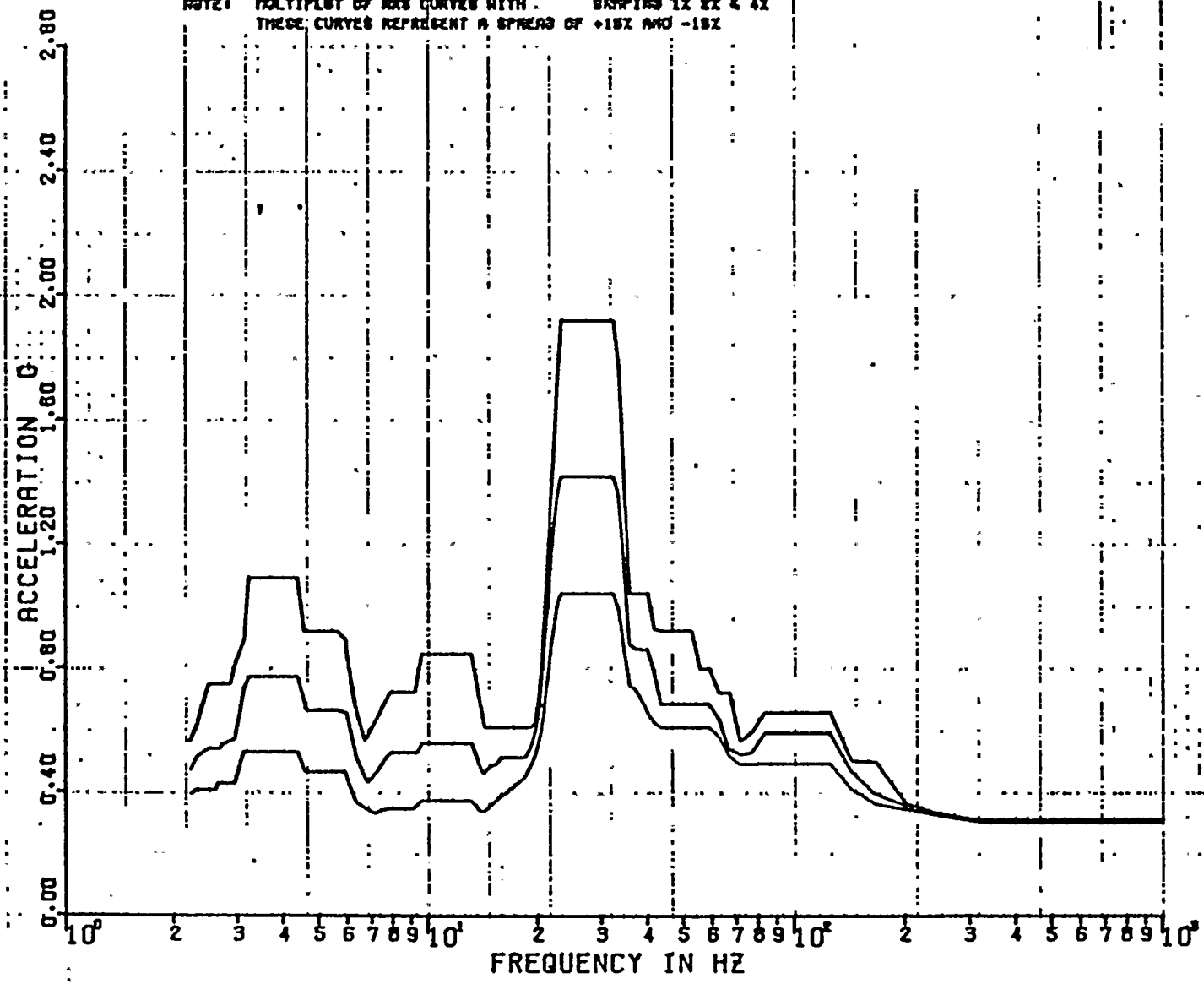
MS 1746

MICHAEL K. DO

DISK CURVE SET NO.21 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 53

PSPECTRA VER 01 LEV 08 CONDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O. ,7 MS-1746-0

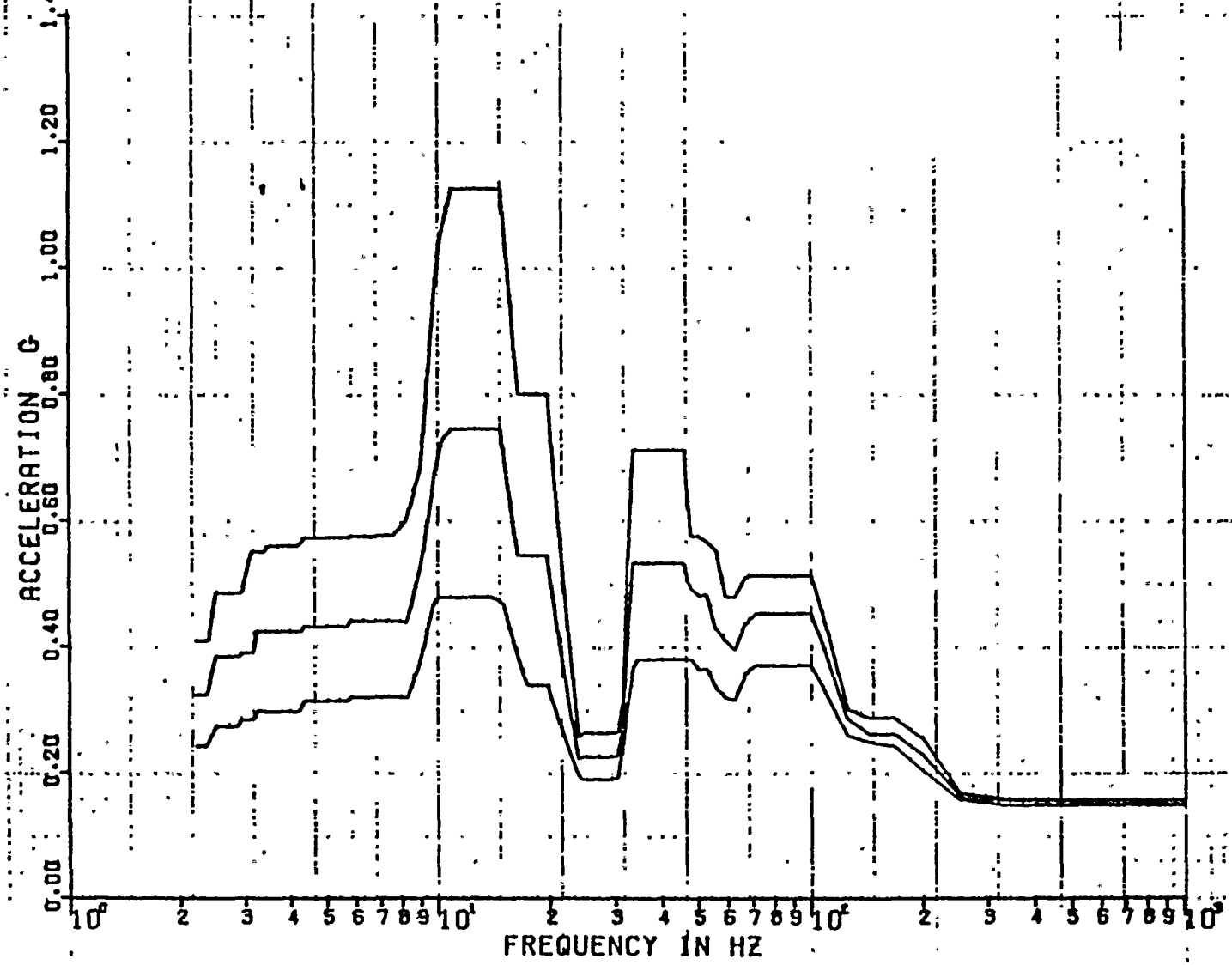
RMS OF ACCELERATION PEDESTAL (ELEV.196.25 FT.)

MS 1746

MICHAEL K OO.

DISK CURVE SET NO.21 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 53

PSPECTRA VER 01 LEV 08 F ED CONDITION 25 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 U-01-12177 MS-1747-0

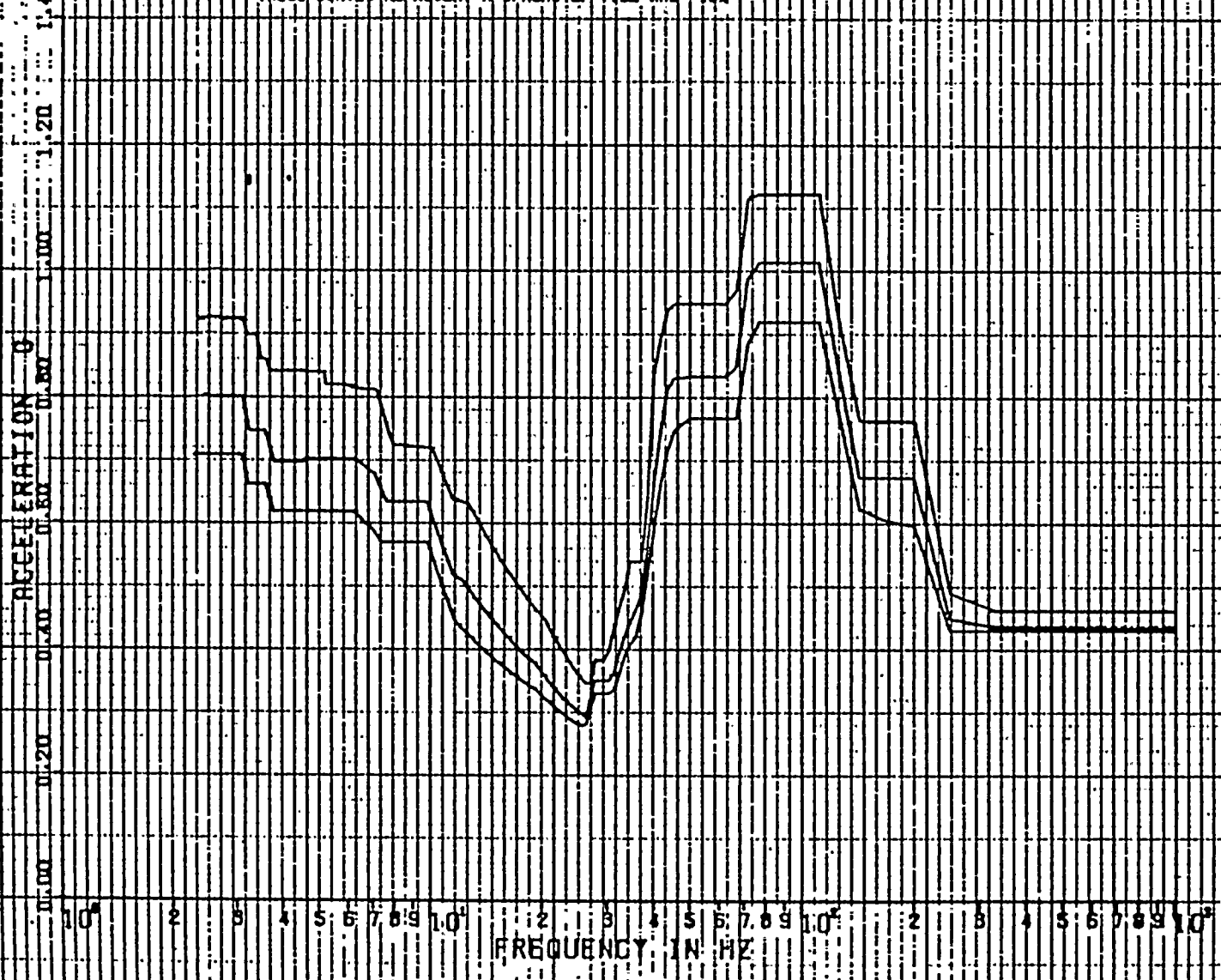
RMS OF ACCELERATION BASE MAT (ELEV.175.00 FT)

MS 1747

MICHAEL K. DO

DISK CURVE SET NO-22 HOR DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2%, 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 54

PSPECTRA VER 01 LEV 08 FAU CONDITION 25 JAN 1983

MIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1747-0

RRS OF ACCELERATION BASE MAT (ELEV.175.00 FT)

MS 1747

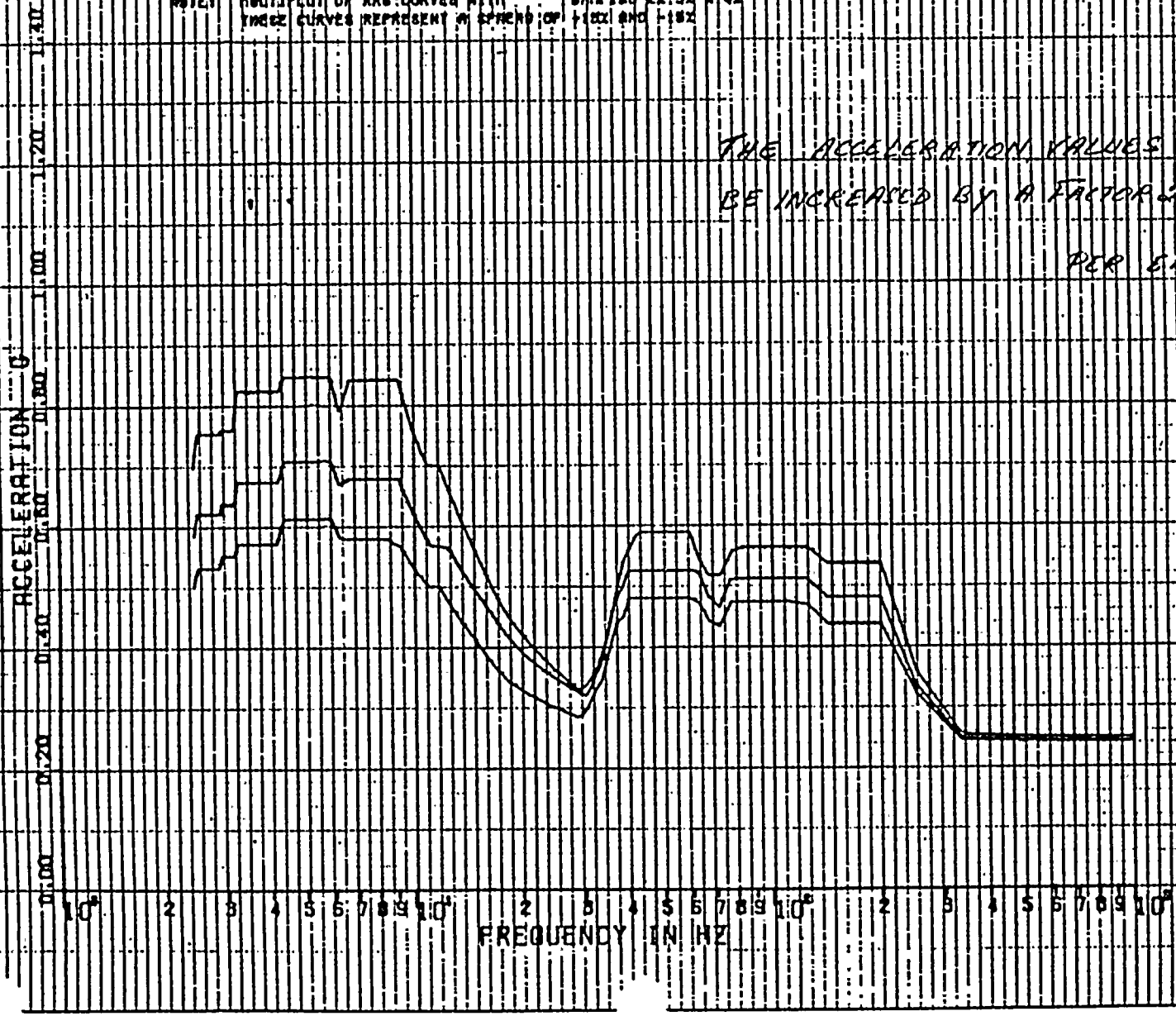
MICHAEL K. DD

DISK CURVE SET NO.22 VER DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2X 3X & 4X
THESE CURVES REPRESENT A SPREAD OF +18% AND -18%

THE ACCELERATION VALUES SHOULD BE INCREASED BY A FACTOR 2.

PER SM3-264-0



REF 54

PSPECTRA VER 01 LEV 08 T CONDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O .77 MS-1746-0

RRS OF ACCELERATION BASE MAT (ELEV.175.00 FT)

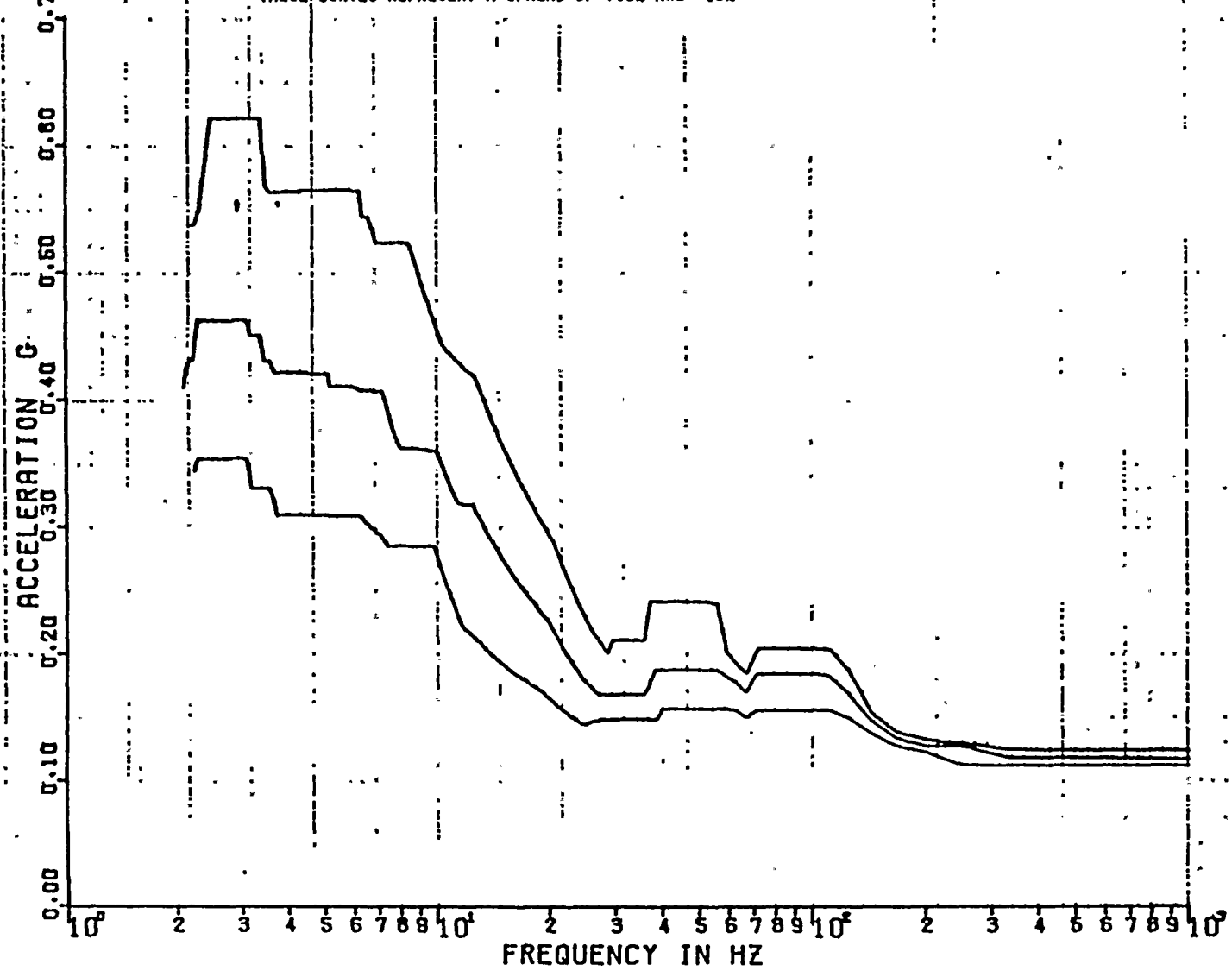
MS 1746

MICHAEL K OO.

DISK CURVE SET NO.22 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 54

PSPECTRA VER 01 LEV 08 CONDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O. MS-1746-0

RRS OF ACCELERATION BASE MAT (ELEV.175.00 FT)

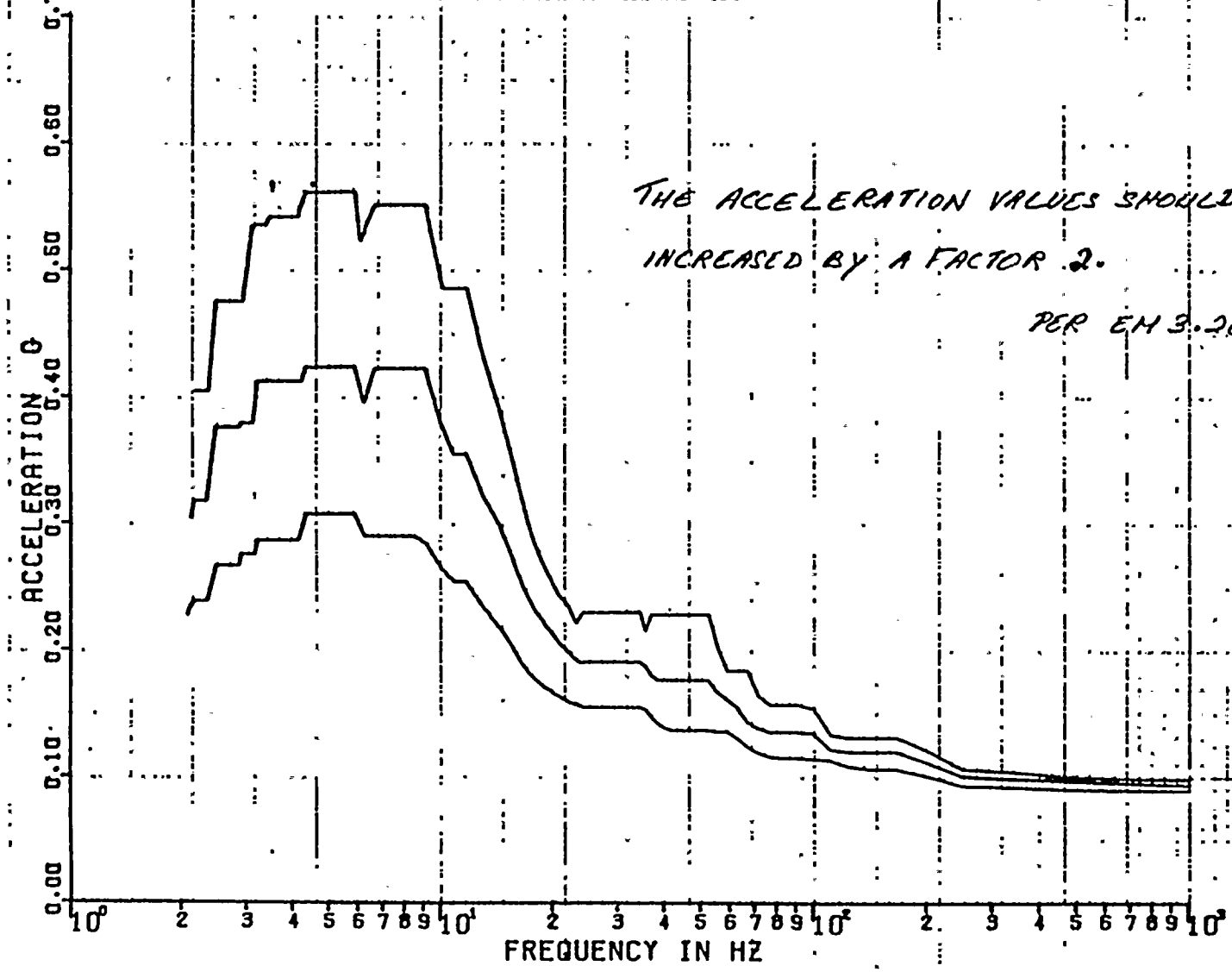
MS 1746

MICHAEL K OO

DISK CURVE SET NO.22 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



THE ACCELERATION VALUES SHOULD BE INCREASED BY A FACTOR 2.

PER EM 3.264.0

REF 54

PSPECTRA VER 01 LEV 08 FAL CONDITION 25 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 01/12/77 MS-1747-0

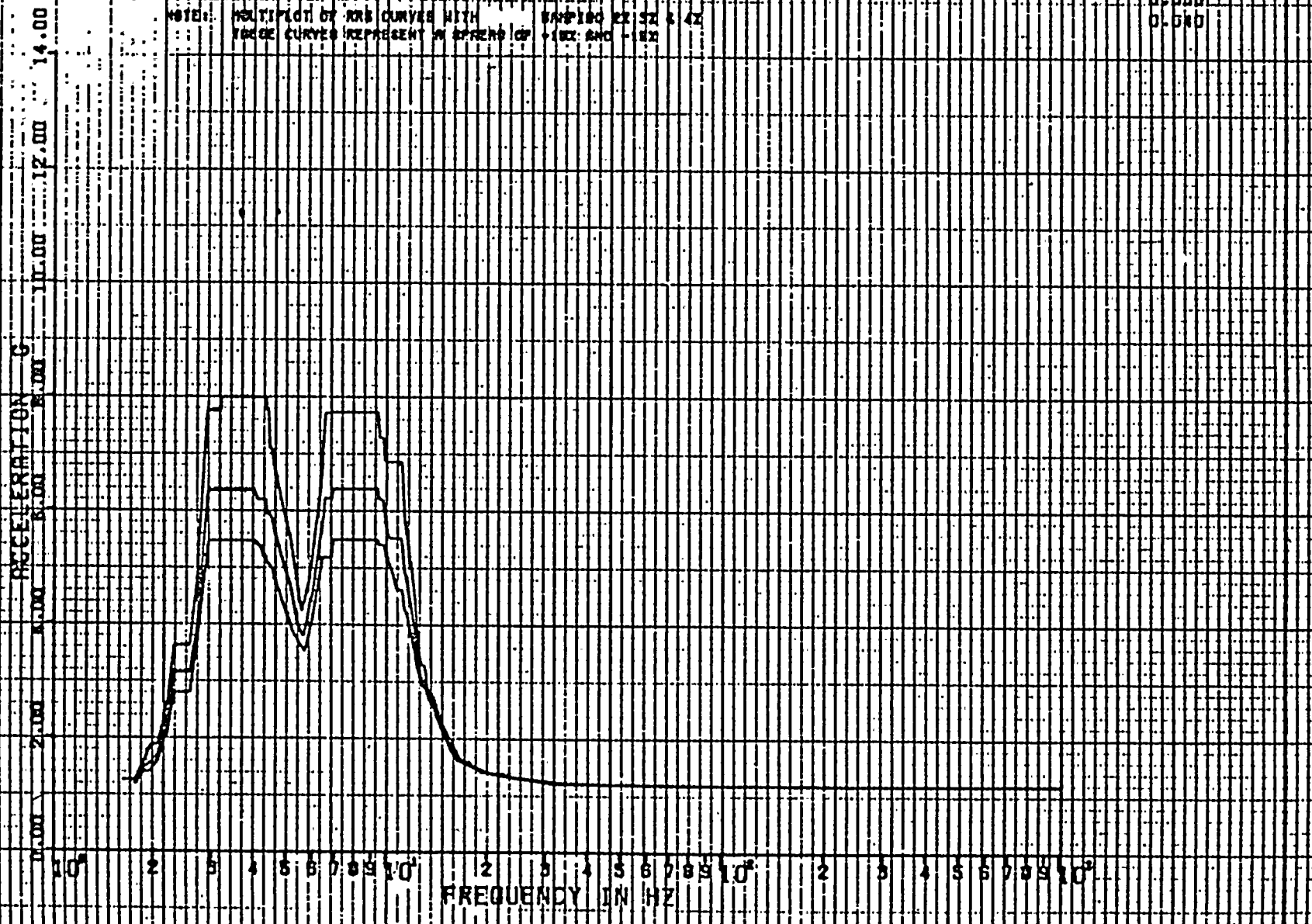
RMS OF ACCELERATION SECONDARY CONT. (ELEV) 316.83 FT)

MS 1747

MICHAEL K OO

DISK CURVE SET NO.23 HOR DIRECTION DAMPING VALUES = 0.020 0.050 0.080

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2% 5% & 4%
THESE CURVES REPRESENT A SPREAD OF +1SD AND -1SD



REF 55

PSPECTRA VER 01 LEV 00 FAILED CONDITION 26 JAN 1988

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 U-0-12177 MS-1747-0

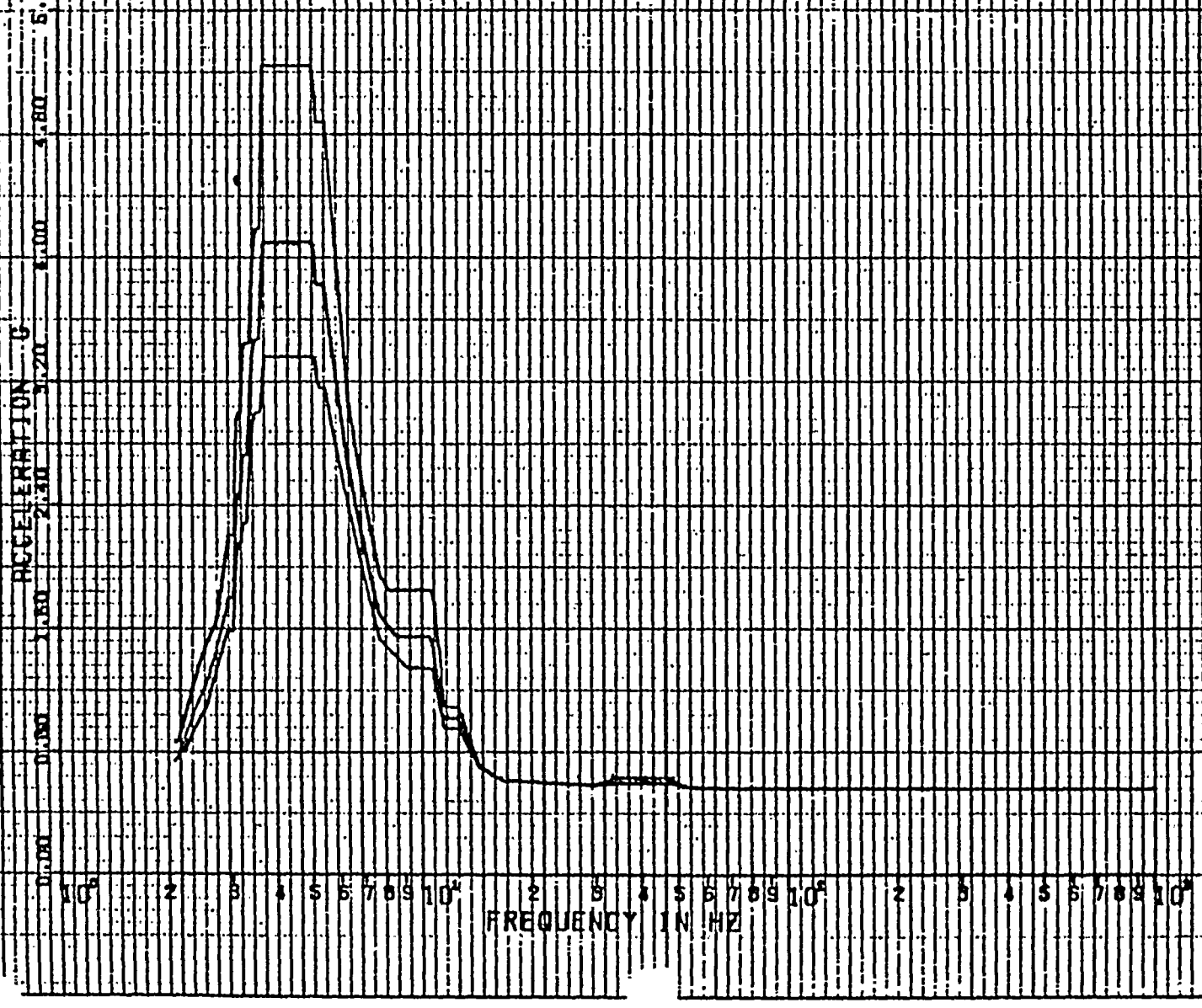
RRS OF ACCELERATION SECONDARY CONT. (ELEV. 316.00 FT)

MS 1747

MICHAEL K. DO

DISK CURVE SET NO.20 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 55

PSPECTRA VER 01 LEV 08 CONDITION 24 JAN 1985

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O. 77 MS-1746-0

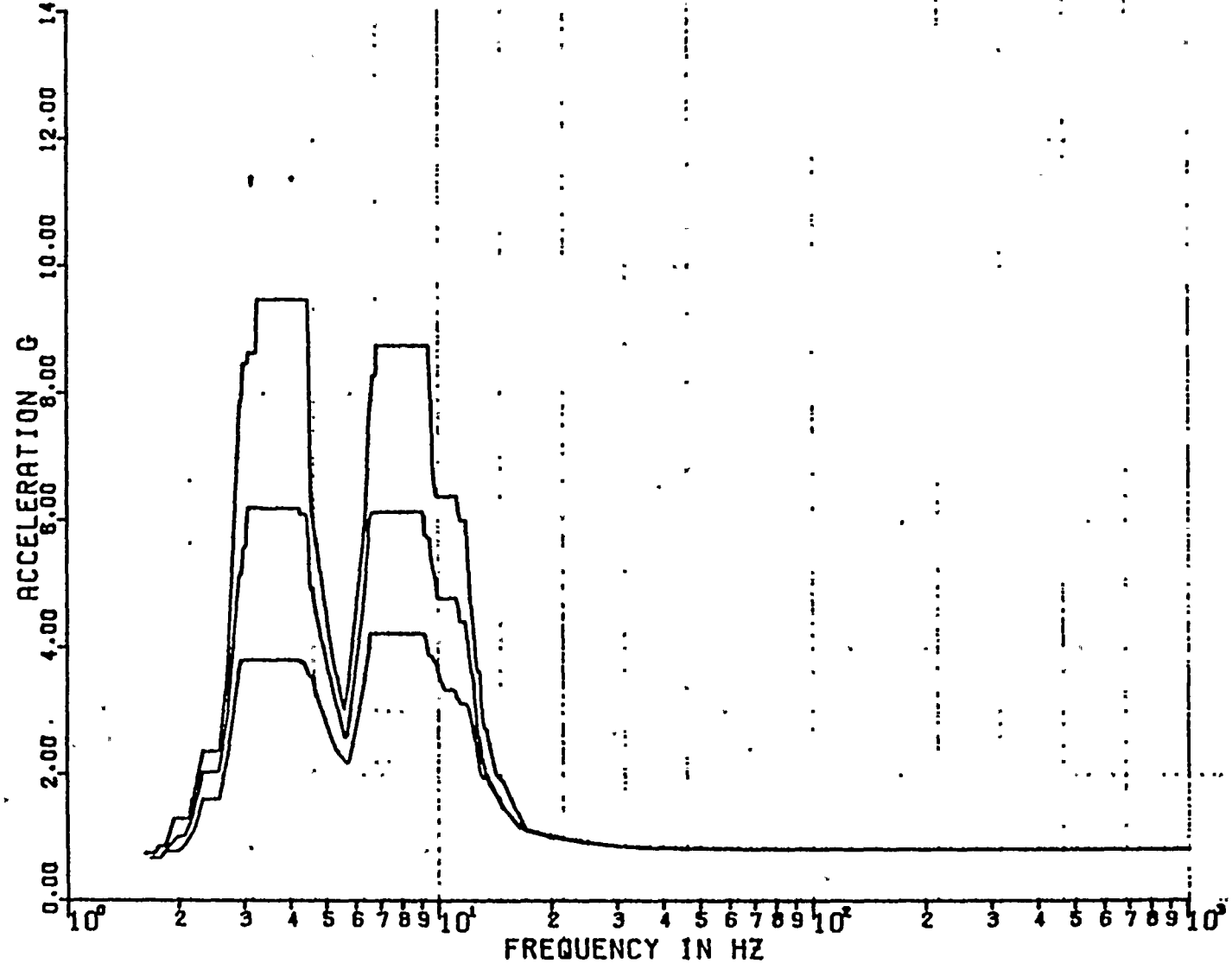
RRS OF ACCELERATION SECONDARY CONT. (ELEV. 416.89 FT)

MS 1746

MICHAEL K. DO

DISK CURVE SET NO.23 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 55

PSPECTRA VER 01 LEV 08 UP[illegible] ONDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12[illegible] MS-1746-0

RMS OF ACCELERATION SECONDARY CONT. (ELEV. 416.83 FT)

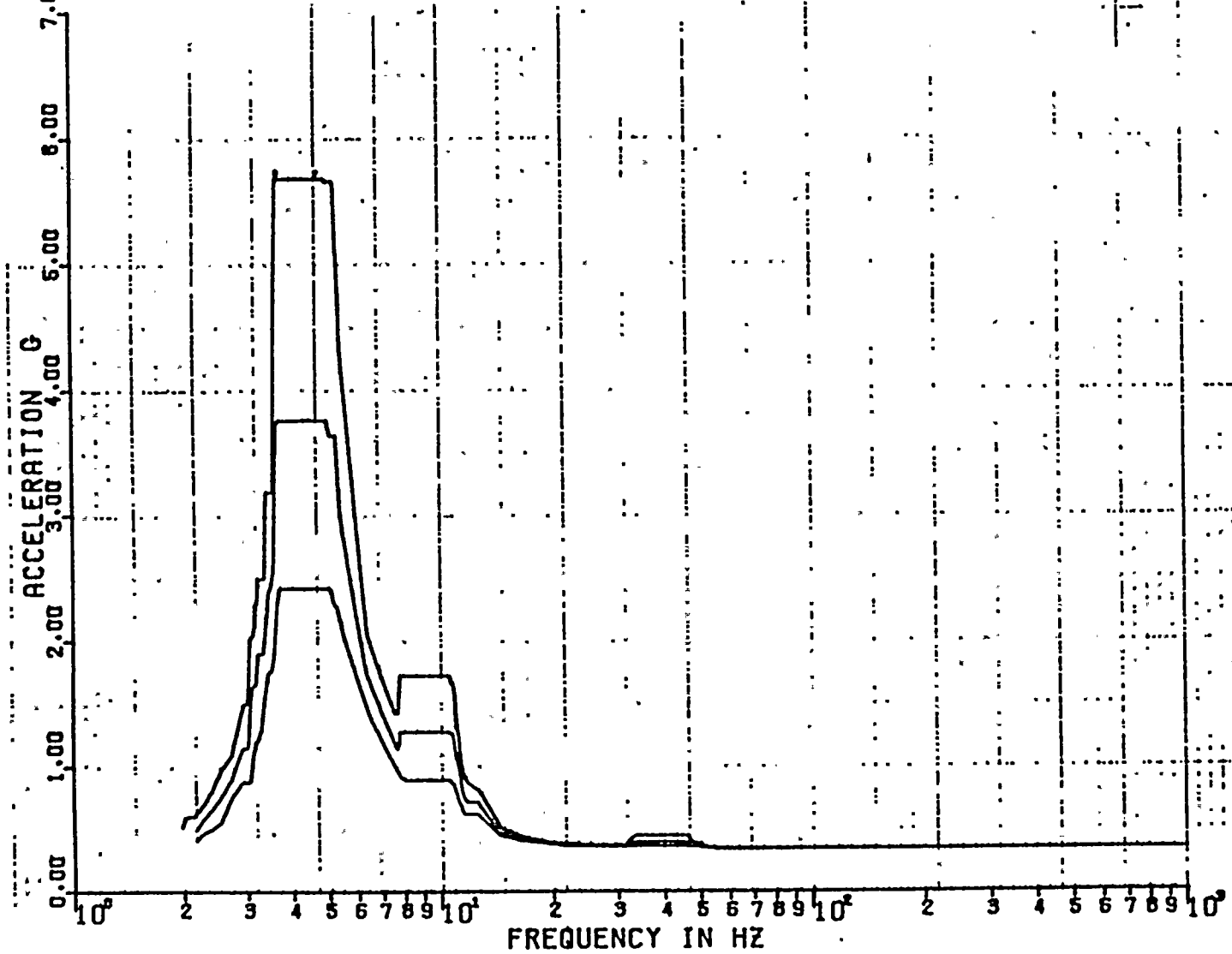
MS 1746

MICHAEL K OO

DISK CURVE SET NO.23 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 55

PSPECTRA VER 01 LEV 00 FAULTED CONDITION 25 JAN 1988

NINOKAKA MONAKAI-NINE MILES POINT UNIT-2 0.0,12.77 RS-1747-0

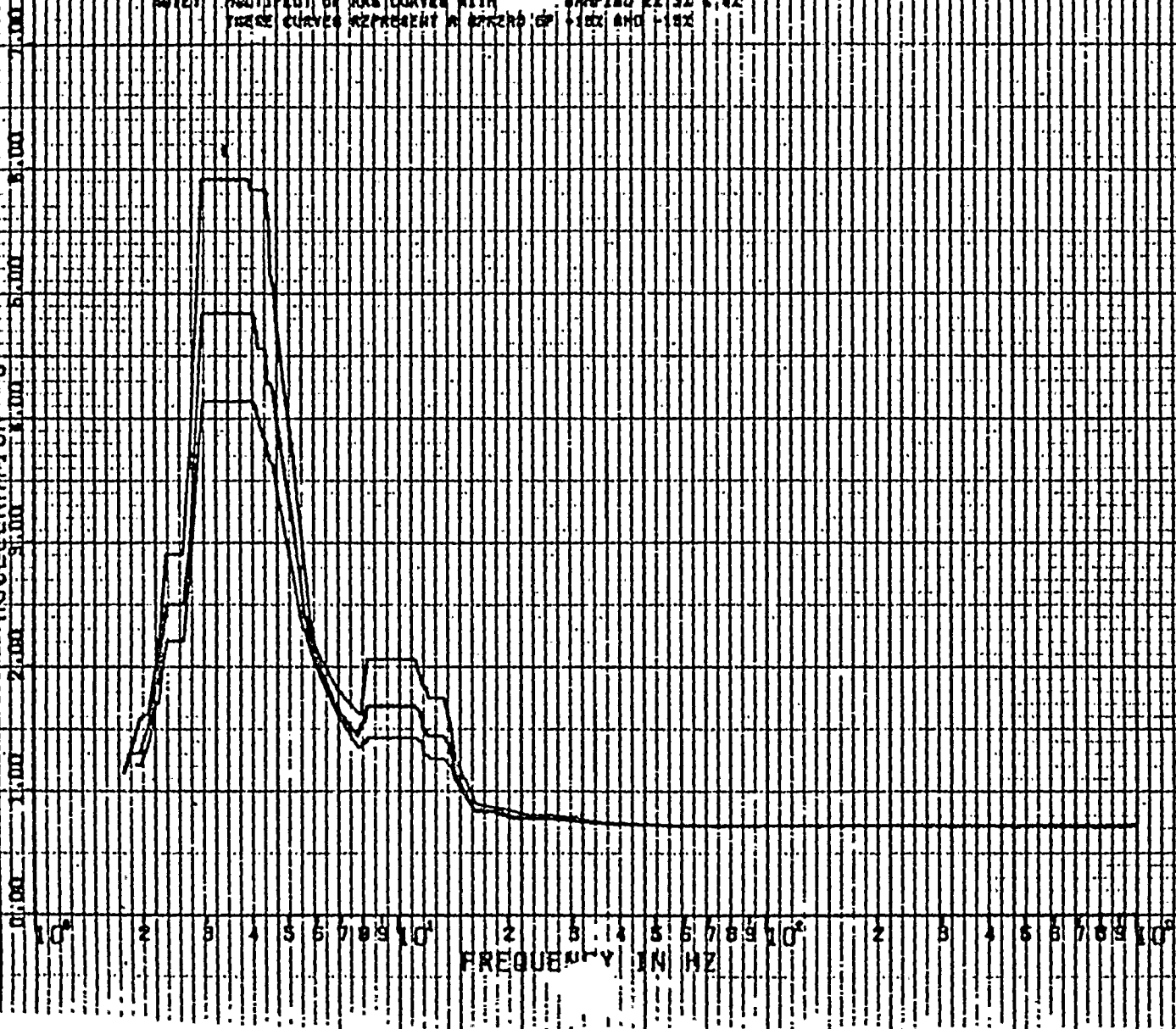
RMS OF ACCELERATION SECONDARY CONT. (ELEV. 387.83 FT)

MS 1747

MICHAEL K. DD

DISK CURVE SET NO.24 HOR DIRECTION DAMPING VALUES = 0.020
0.080
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING ZZ ZZ 2.4Z
THESE CURVES REPRESENT A BANDED OF +10% AND -10%



REF 56

PSPECTRA VER 01 LEV 08 FAU[illegible] CONDITION 26 JAN 1989

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1747-0

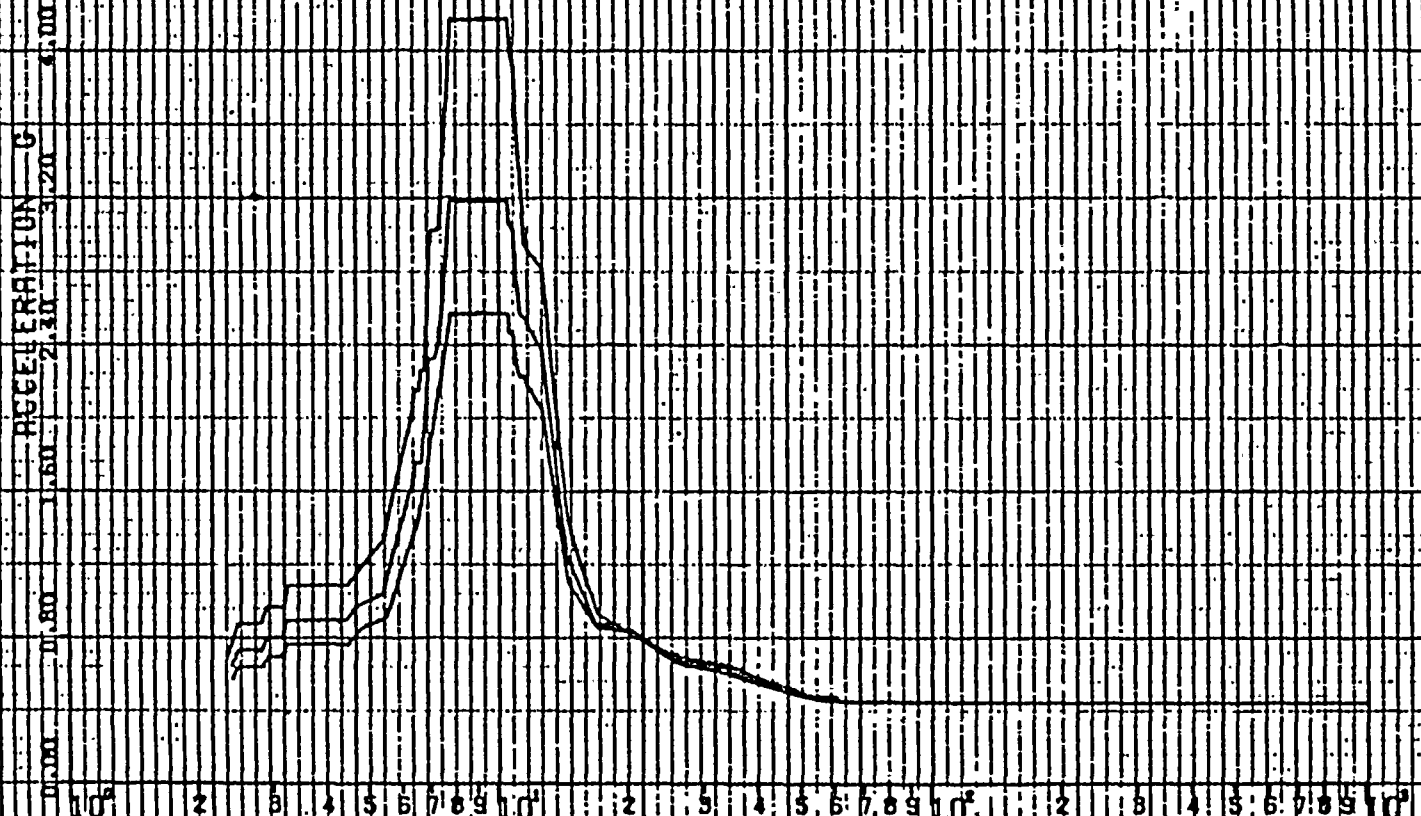
RRS OF ACCELERATION SECONDARY CONT. (ELEV. 387.83 FT)

MS 1747

MICHAEL K. DO

DISK CURVE SET NO.24 VER DIRECTION DAMPING VALUES = 0.020 0.050 0.080

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2%,5% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 56

PSPECTRA VER 01 LEV 08 CONDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.-12..7 M6-1746-0

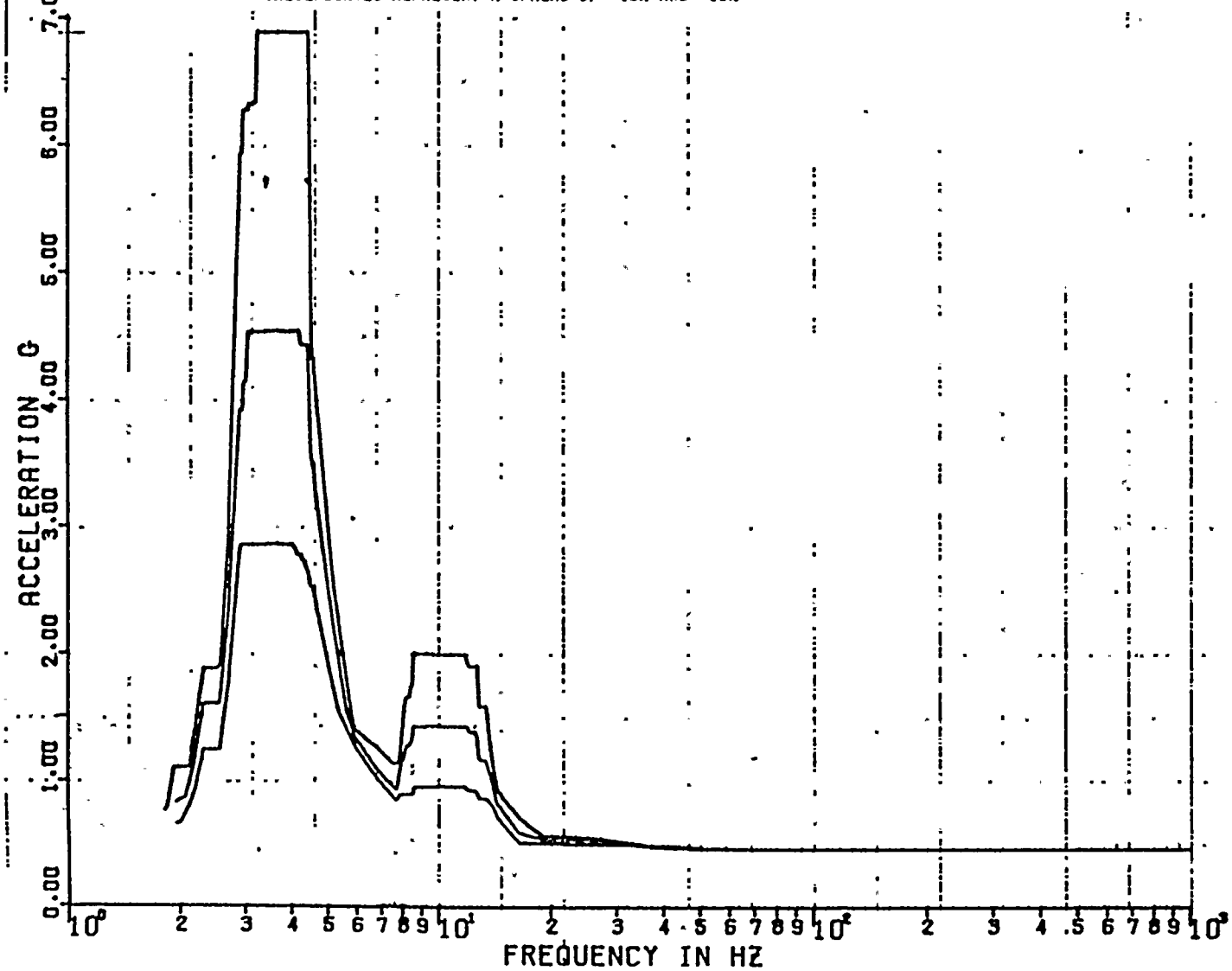
MS 1746

RMS OF ACCELERATION SECONDARY CONT. (ELEV. 387.83 FT)

MICHAEL K DD .

DISK CURVE SET NO.24 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REP 56

PSPECTRA VER 01 LEV 08 UPSET T CONDITION 24 JAN 1989

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.:__177 MS-1746-0

RMS OF ACCELERATION SECONDARY CONT. (ELEV.- 387.83 FT)

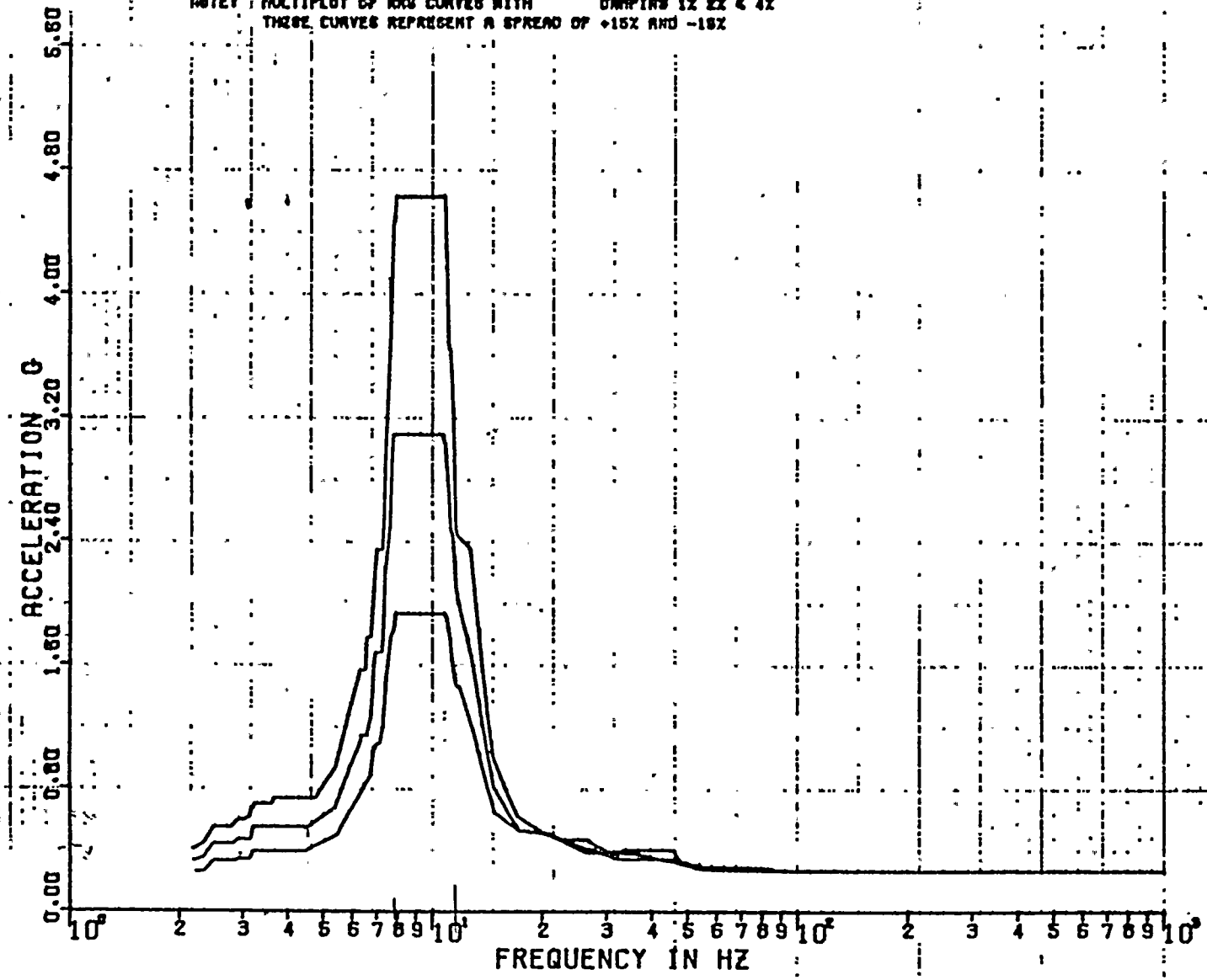
MS 1746

MICHAEL K DO

DISK CURVE SET NO.24 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



3.09

REF 56

PSPECTRA VER: 01 LEV. 08 F[illegible] CONDITION 26 JAN. 1988

MIHDARA: MOHAWK-NINE MILES POINT UNIT-2 J.0112177 MS-1747-0

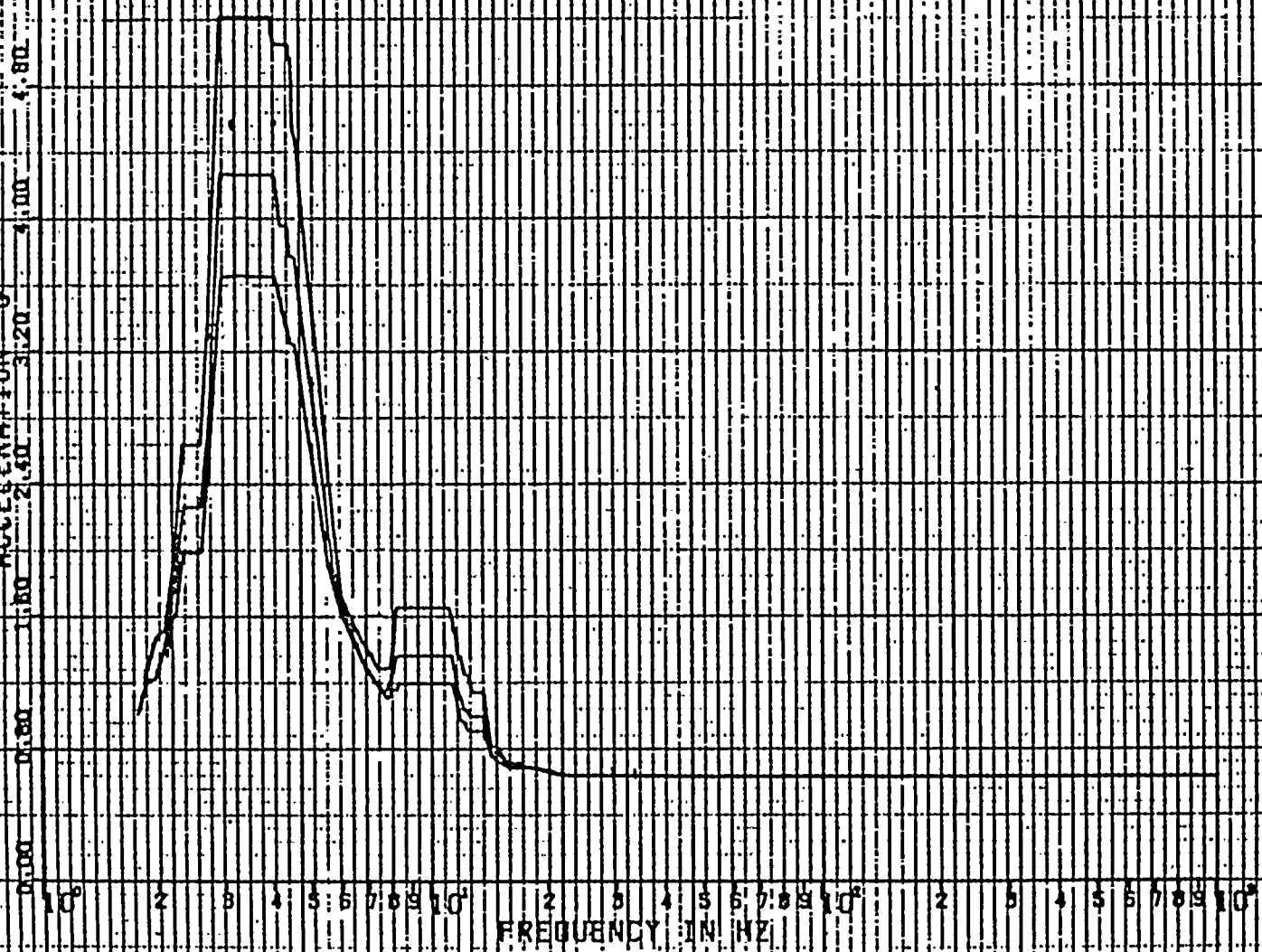
RRS OF ACCELERATION SECONDARY CONT. (ELEV. 353.83 FT)

MS 1747

MICHAEL K. DO

DISK CURVE SET NO.26 HOR DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH [illegible] DAMPING [illegible] 2% & 4%
THESE CURVES REPRESENT A BAND OF +10% AND -10%



REF 57

PSPECTRA VER 01 LEV 08 ED CONDITION 25 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12.77. MS-1747-0

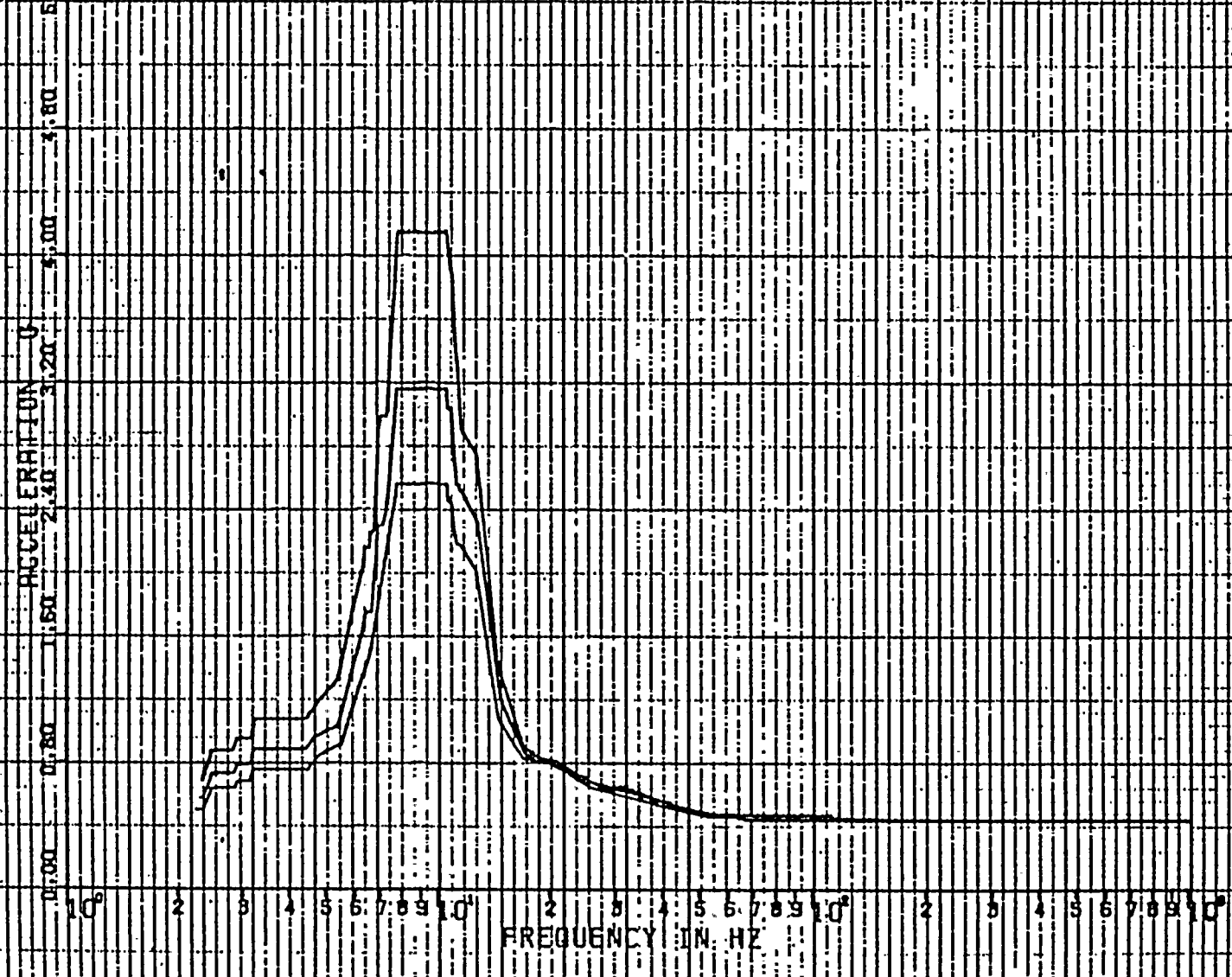
RRS OF ACCELERATION SECONDARY CONT (ELEV. 353.83 FT)

MS 1747

MICHAEL K. DO

DISK CURVE SET NO.26 VER DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -10%



REF 57

PSPECTRA. VER 01 LEV 08 CONDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.1..77 MS-1746-0

RMS OF ACCELERATION SECONDARY CONT. (ELEV. 353.83 FT)

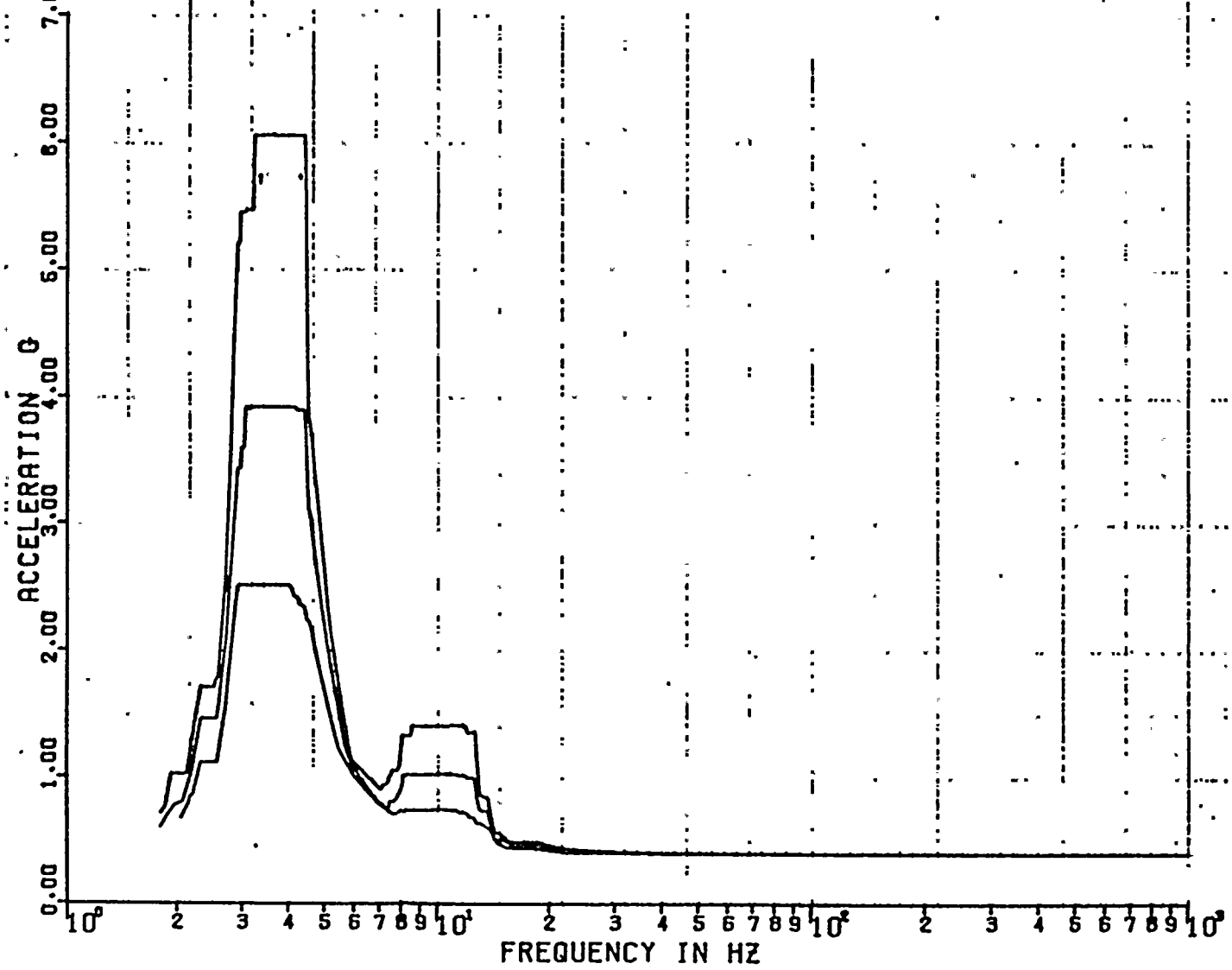
MS 1746

MICHAEL K DO

DISK CURVE SET NO.25 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 57

PSPECTRA VER 01 LEV 08 T CONDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O .177 MS-1746-0

RRS OF ACCELERATION SECONDARY CONT. (ELEV. 353.83 FT)

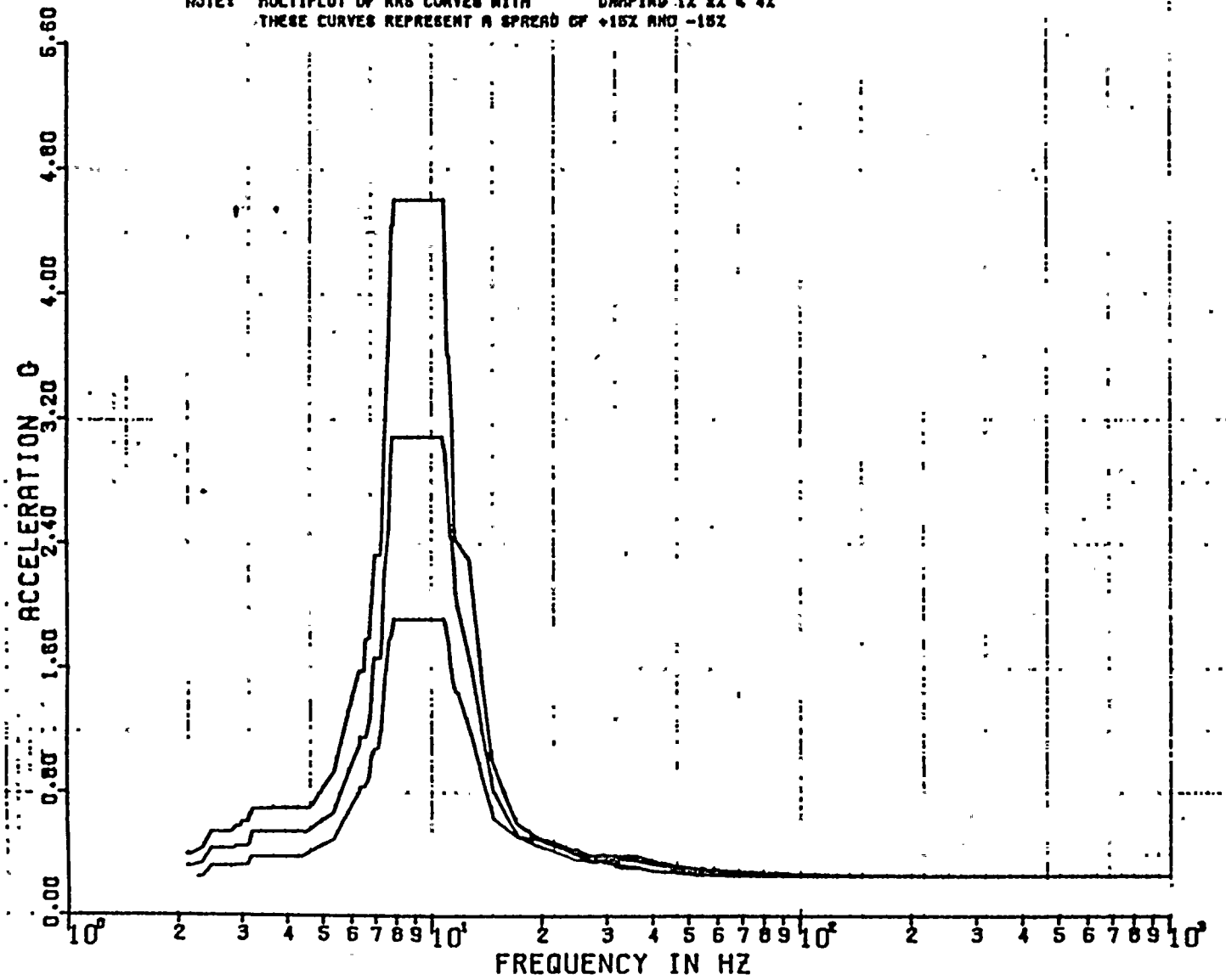
MS 1746

MICHAEL K. OO

DISK CURVE SET NO.25 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 57

PSPECTRA VER 01 LEV 06 ED CONDITION 26 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 U.S. 2177 MS-1747-0

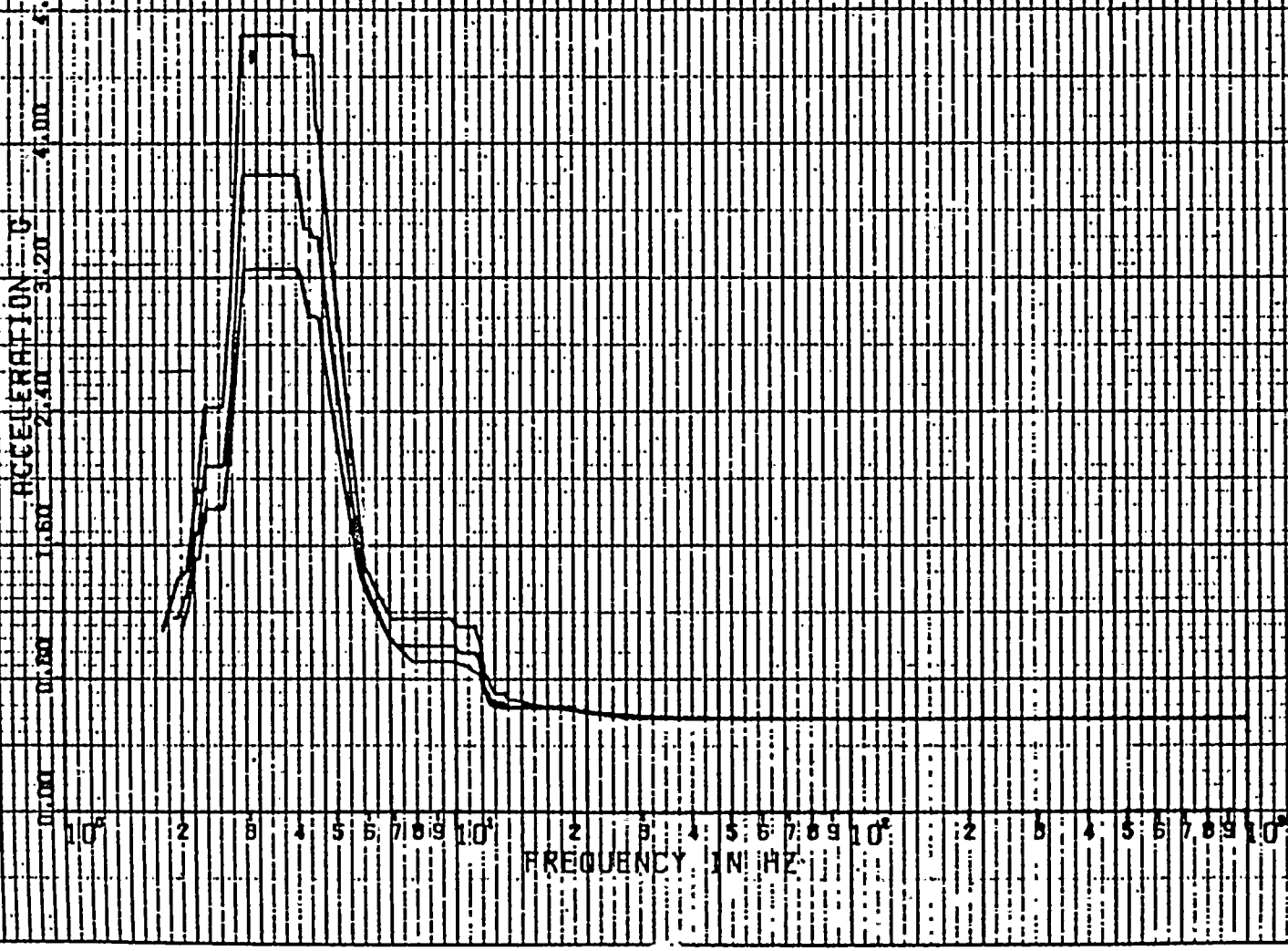
RRS OF ACCELERATION SECONDARY CONT (ELEV 320.83 FT)

MS 1746

MICHAEL K. DO

DISK CURVE SET NO.26 NOR DIRECTION DAMPING VALUES = 0.020 0.050 0.080

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 5% & 8%
THESE CURVES REPRESENT AN UPPERBOUND OF +10% AND -10%



REF 58

PSPECTRA VER 01 LEV 08 FI CONDITION 25 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O. 77 MS-1747-0

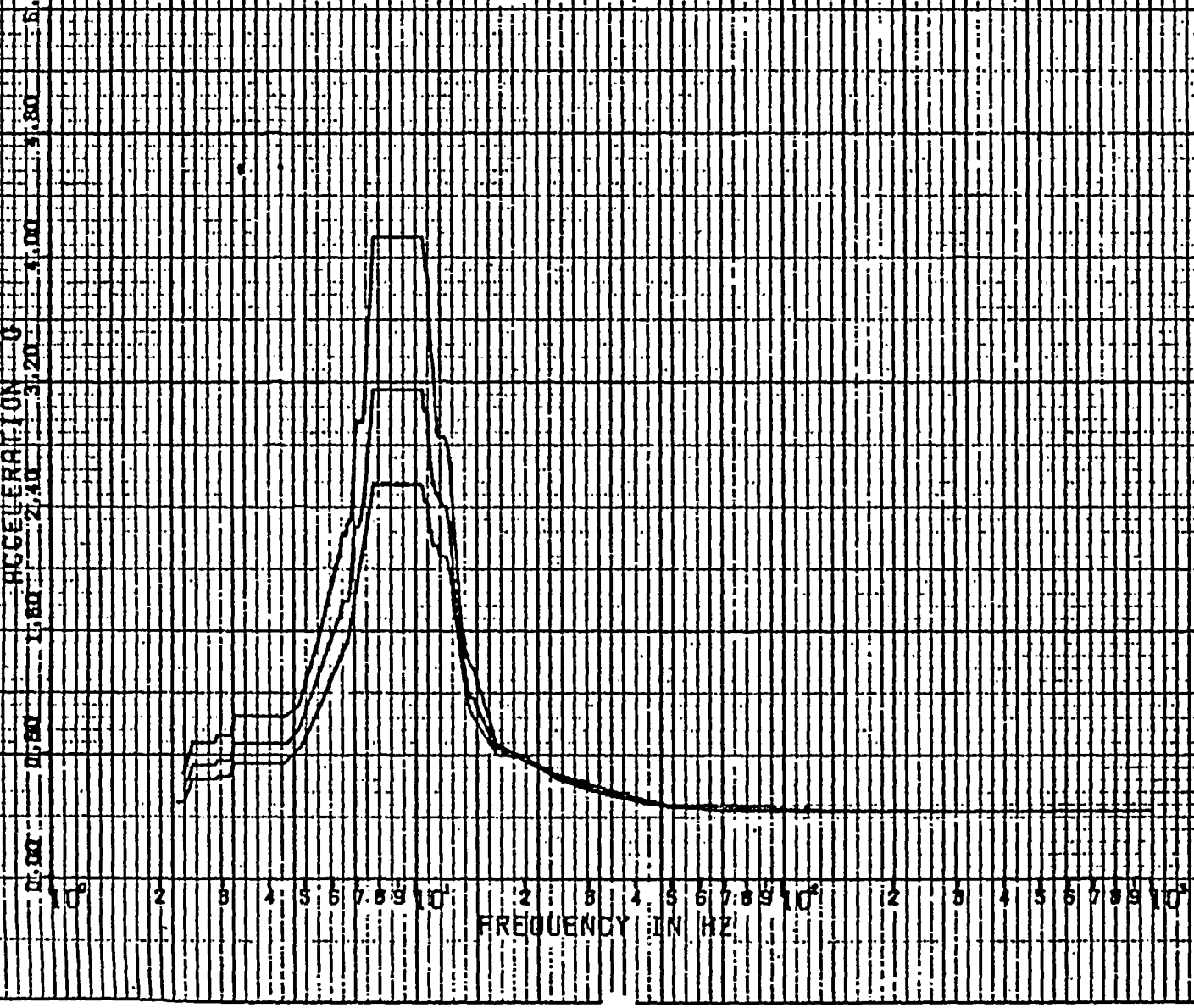
RMS OF ACCELERATION SECONDARY (CONT) (ELEV. 328.83 FT)

MS 174

MICHAEL K DO

DISK CURVE SET NO.26 VER DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



Key 58

PSPECTRA VER 01 LEV 08 UP[illegible] CONDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.1. MS-1746-0

RMS OF ACCELERATION SECONDARY CONT. (ELEV. 328.83 FT)

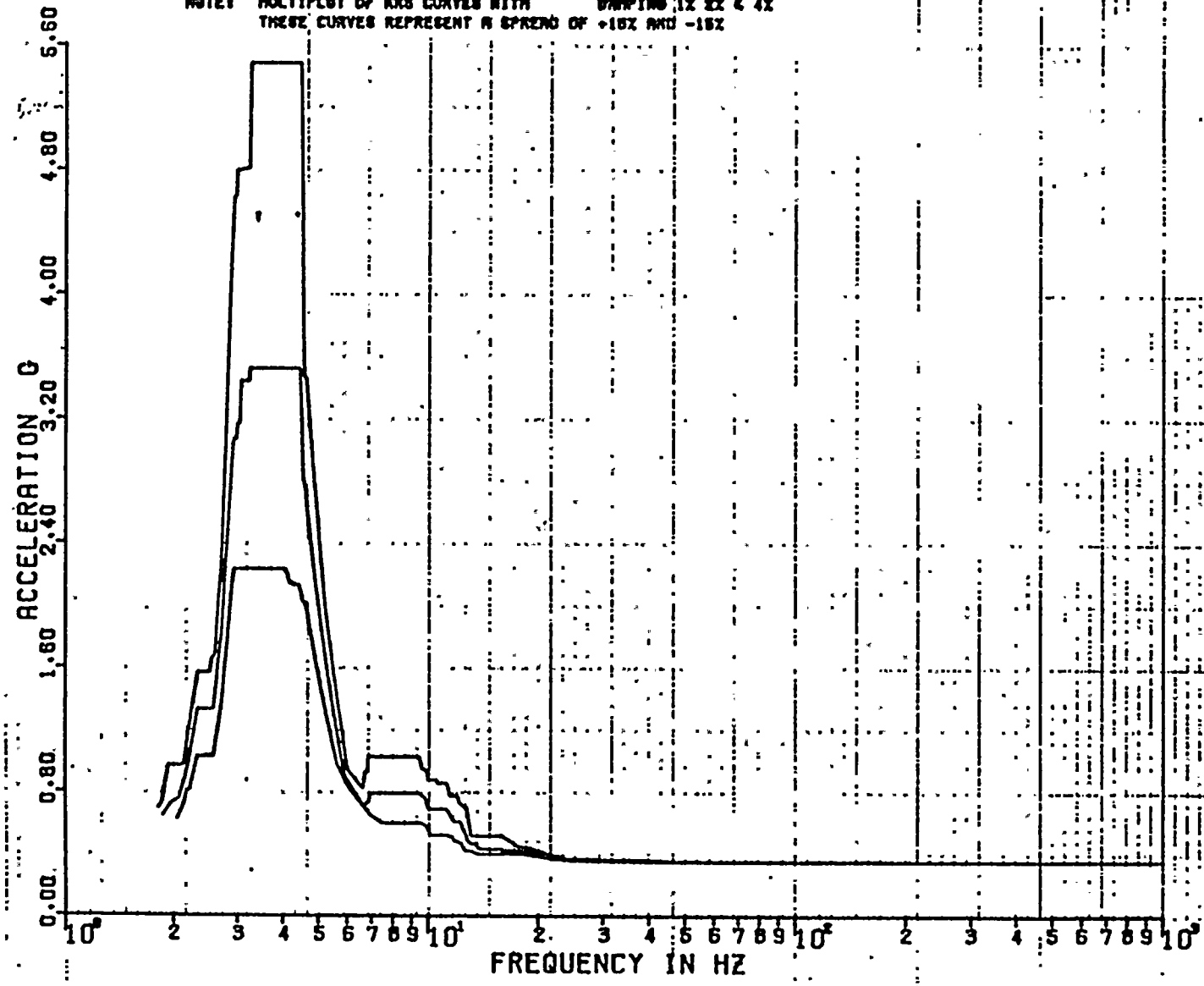
MS 1746

MICHAEL K OD

DISK CURVE SET NO.26 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 58

PSPECTRA VER 01 LEV 08 CONDITION 24 JAN 1985

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12177 MS-1746-0

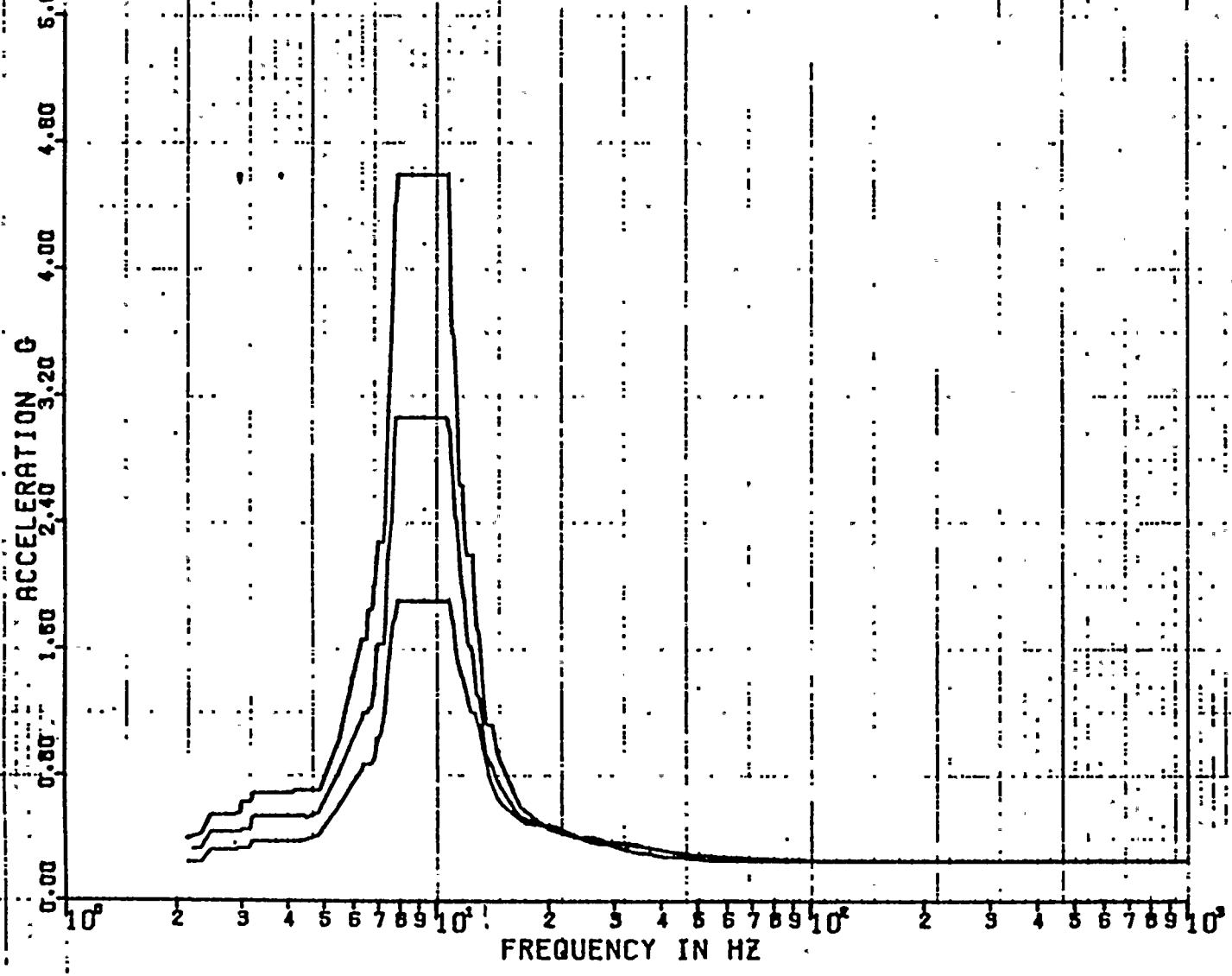
RMS OF ACCELERATION SECONDARY CONT. (ELEV. 328.83 FT)

MS 1746

MICHAEL K.CO...

DISK CURVE SET NO.26 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 58

PSPECTRA VER: 01 LEV: 00 FORMATTED CONDITION 26 JAN 1985

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O. 7 MS-1747-0

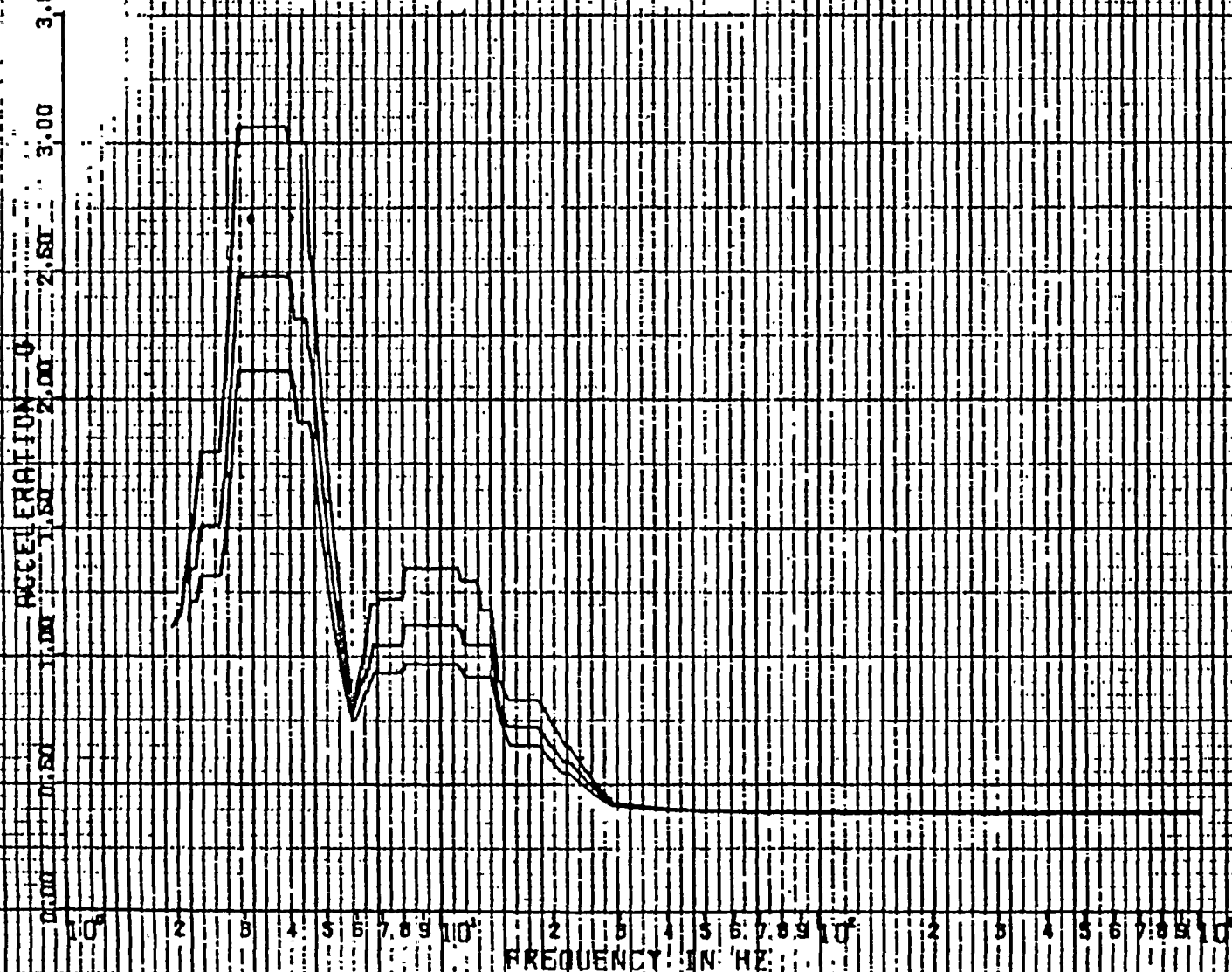
RMS OF ACCELERATION: SECONDARY CONT. (EL 289.0 FT)

MS 174

MICHAEL K. DO

DISK CURVE SET NO.27 HOR DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF 3DB CURVES WITH DAMPING 2%,3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 59

PSPECTRA VER 01 LEV 08 F[illegible]D CONDITION 25 JAN 1988

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J-[illegible]77 MS-1747-0

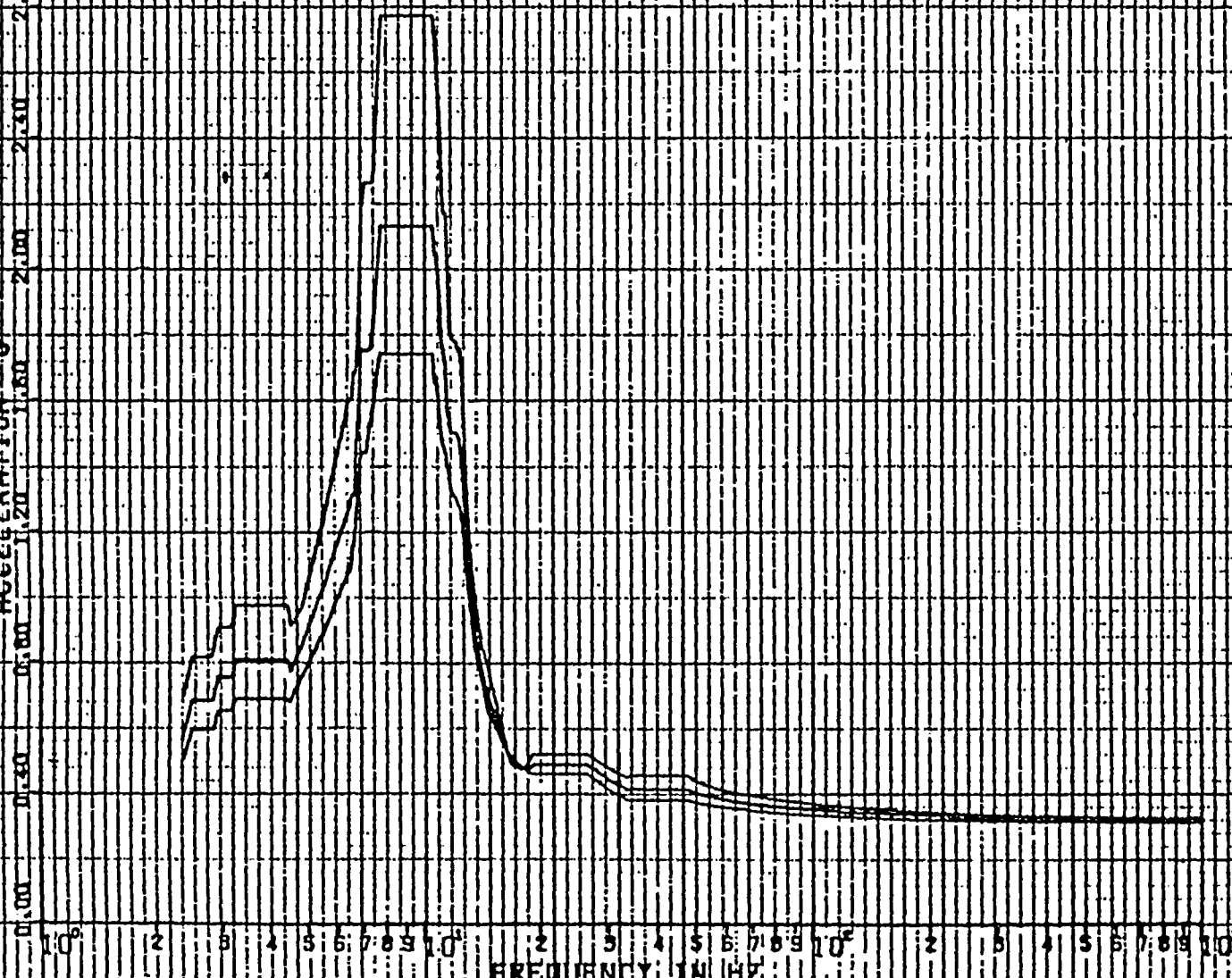
RMS OF ACCELERATION SECONDARY CONT. (ELEV. 288.0 FT)

MS 174[illegible]

MICHAEL K. [illegible]

DISK CURVE SET NO.27 VER DIRECTION DAMPING VALUES = 0.020 0.040 0.060

NOTE: MULTIPLOT OF RMS CURVES WITH [illegible] DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 59

PSPECTRA VER 01 LEV 08 CONDITION 24 JAN 1985

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.# / MS-1746-0

RRS OF ACCELERATION SECONDARY CONT. (ELEV. 289.0 FT)

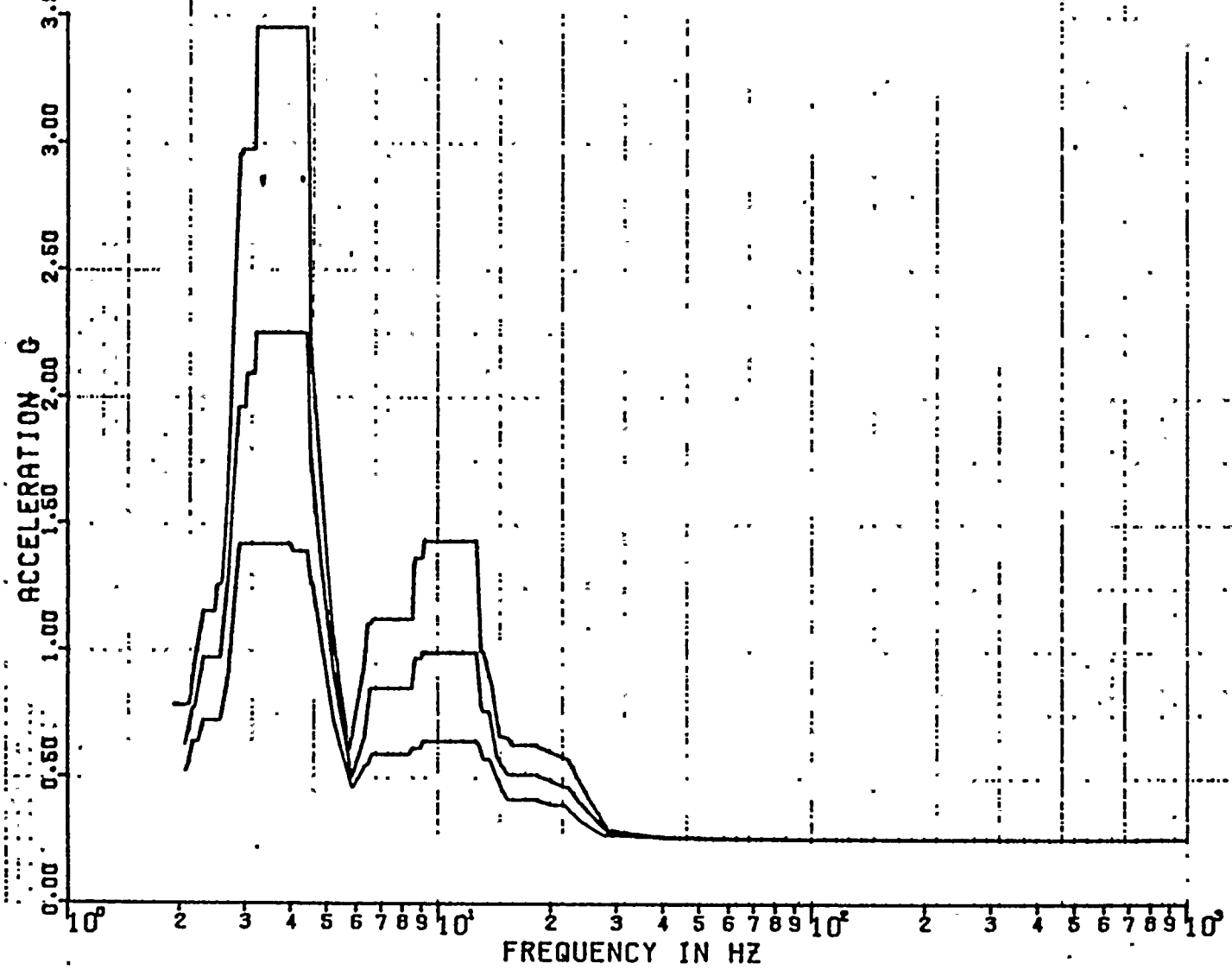
MS 1746

MICHAEL K OO

DISK CURVE SET NO.27 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 59

PSPECTRA VER 01 LEV 08 U CONDITION 24 JAN 1985

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.12.7 MS-1746-0

RMS OF ACCELERATION . SECONDARY CONT. (ELEV. 289.0 FT)

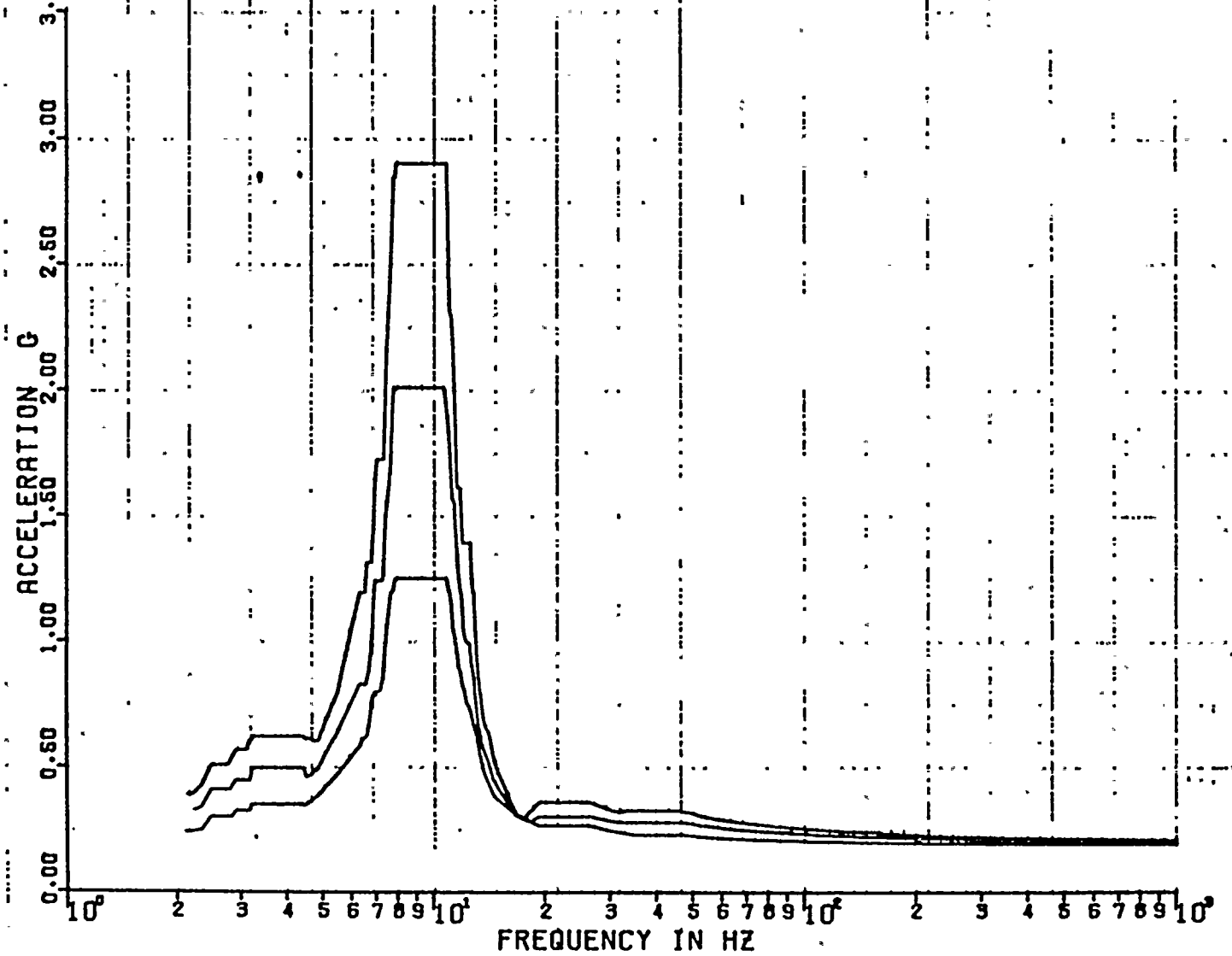
MS 1746

MICHAEL K DO

DISK CURVE SET NO.27 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 59

PSPECTRA VER 01 LEV 08 [illegible]ED CONDITION 26 JAN 1983

MIADARA MOHAWK-MIKE MILES POINT UNIT 2 [illegible]77 MS-1747-0

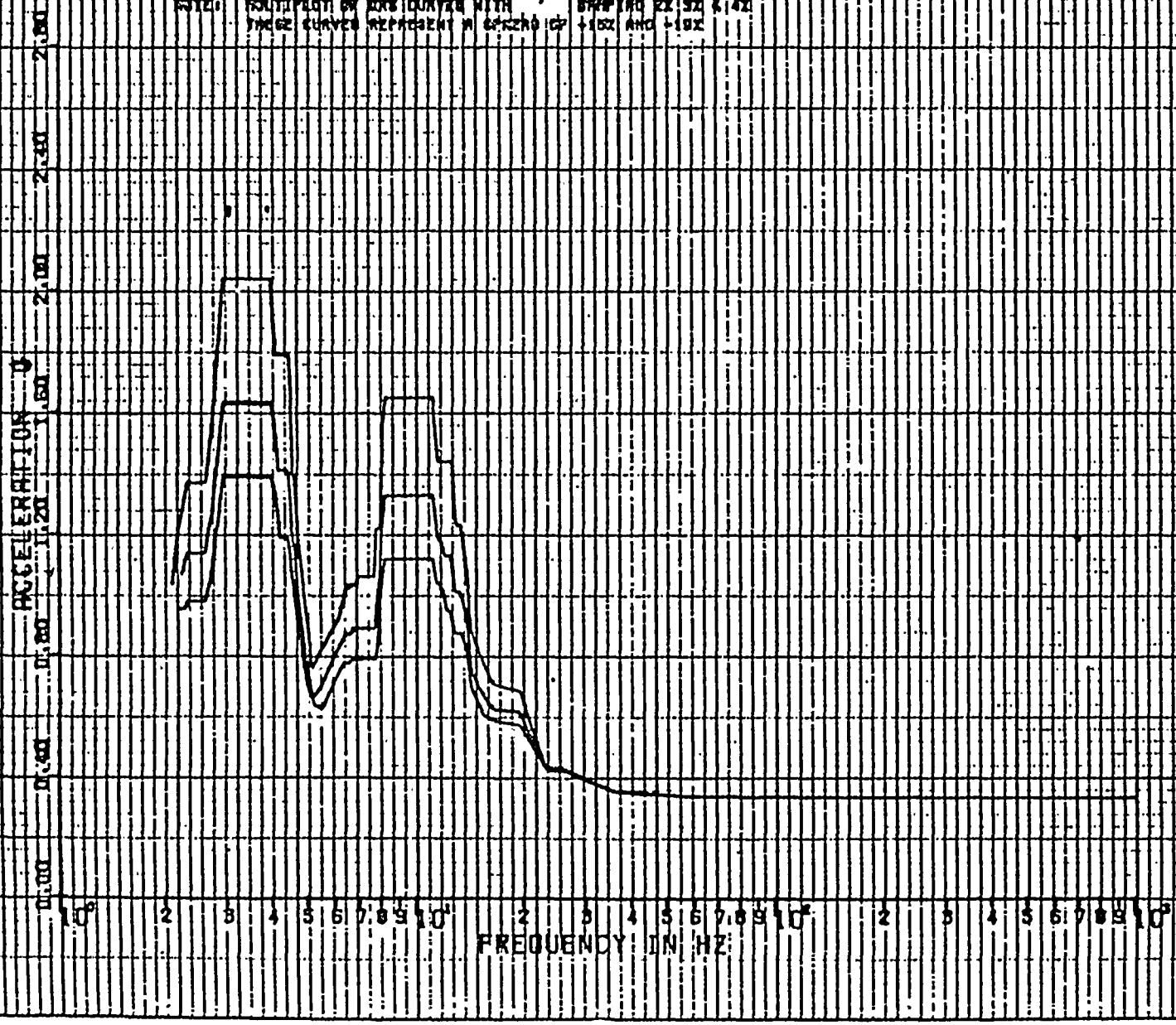
RMS OF ACCELLERATION SECONDARY CONT. (ELEV. 261.0 FT)

MS 174

MICHAEL K 60

DISK CURVE SET NO.28 HOR DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF 3 CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A BAND OF +15% AND -10%



REF 60

PSPECTRA VER 01 LEV 08 FAU 0 CONDITION 26 JAN 1988

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O. [illegible] MS-1747-0

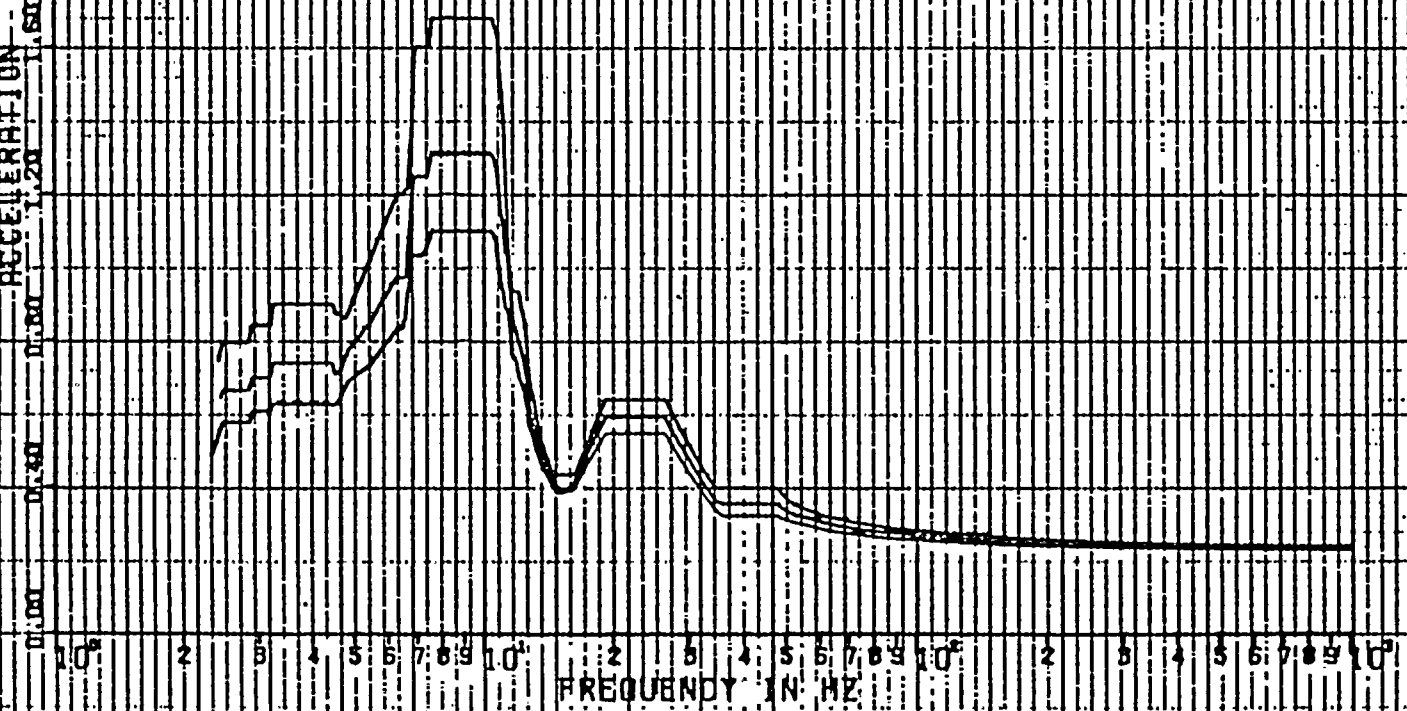
RRS OF ACCELLERATION SECONDARY CONT. (ELEV [illegible] FT)

MS 1747

MICHAEL K GO

DISK CURVE SET: MO-28 VER DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +10% AND -10%



REF 60

PSPECTRA VER 01 LEV 08 U CONDITION 24 JAN 1983

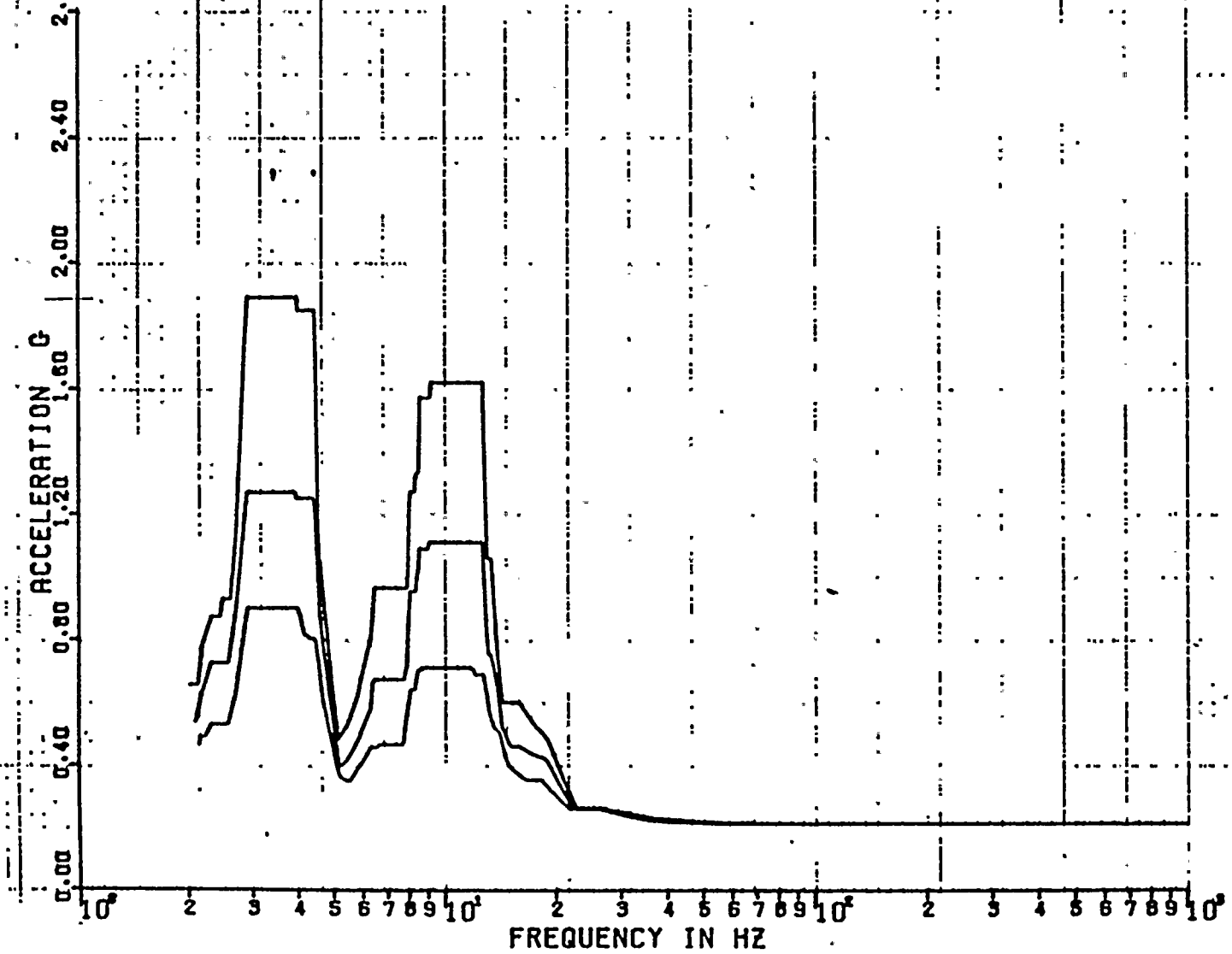
NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J.O.1 / MS-1746-0

RMS OF ACCELLERATION SECONDARY CONT. (ELEV. 261.0 FT)

MICHAEL K OO.

DISK CURVE SET NO.28 HOR DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 60

PSPECTRA VER 01 LEV 08 UPSET CONDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT-2 J. [redacted] MS-1746-0

RRS OF ACCELLERATION SECONDARY CONT. (EL [redacted] .61.0 FT)

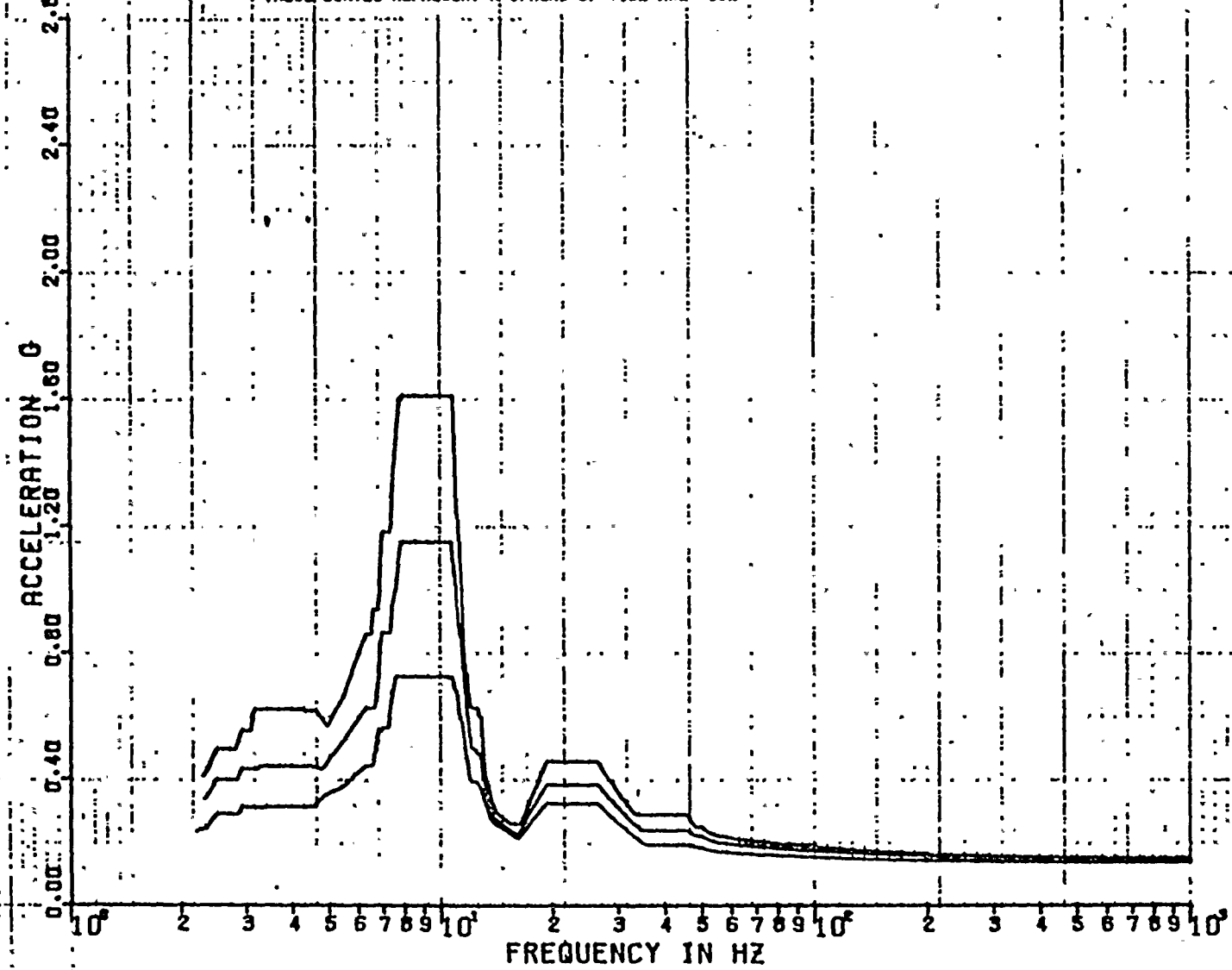
MS 1746

MICHAEL K DO

DIGK CURVE SET NO.28 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 60

PSPECTRA VER:01 LEV:00 FE :D CONDITION 25 JAN 1995

MIRDARA MOHAWK-NINE MILES POINT UNIT -2 J 177 HS-1747-0

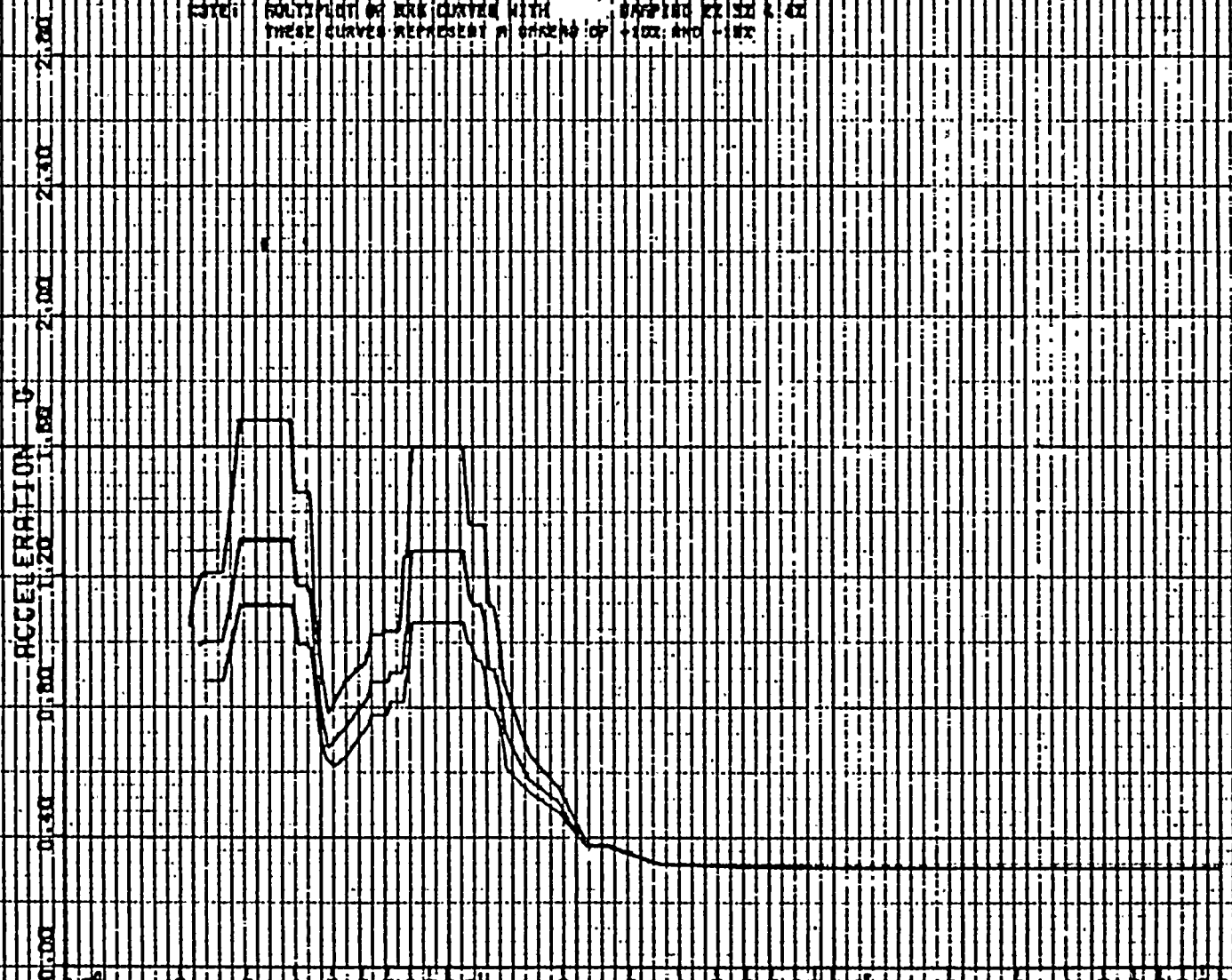
RRS OF ACCELERATION SECONDARY CONT (ELEV: 240.0 FT)

MS 174

MICHAEL K DD

DISK CURVE SET NO.29 HOR DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING ZZ SZ 2.0Z
THESE CURVES REPRESENT A BREAKAD OF +100% AND -18%



REF 61

PSPECTRA VER 01 LEV 08 ,ED CONDITION 25 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT -2 J.O.12177 MS-1747-0

RRS OF ACCELERATION SECONDARY CONT.(ELEV. 240.0 FT)

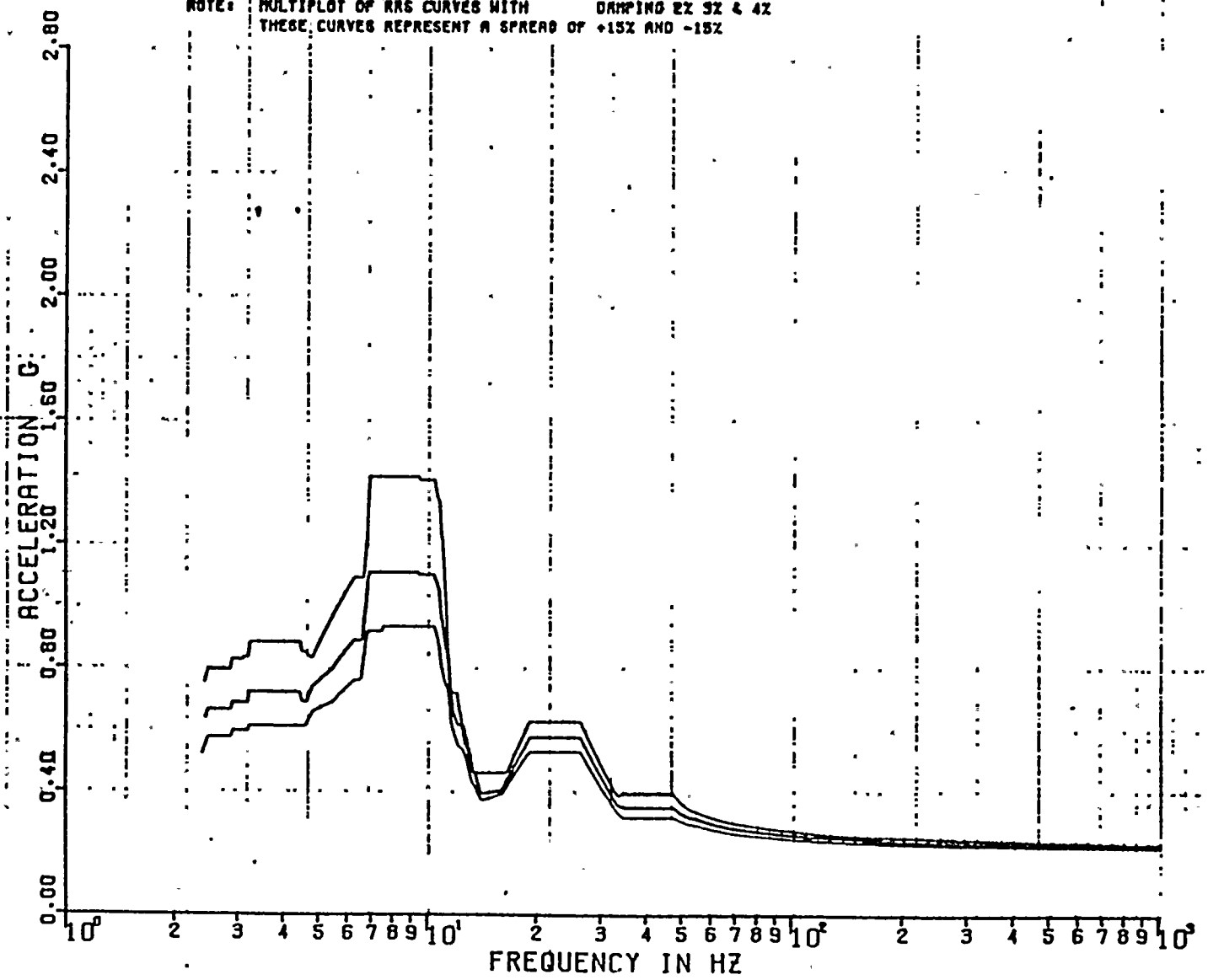
MS 1747

MICHAEL K 00

DISK CURVE SET NO.29 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 61

PSPECTRA VER 01 LEV 08 UP[illegible] CONDITION 24 JAN 1989

NIAGARA MOHAWK-NINE MILES POINT UNIT -2 J.O.[illegible]/7 MS-1746-0

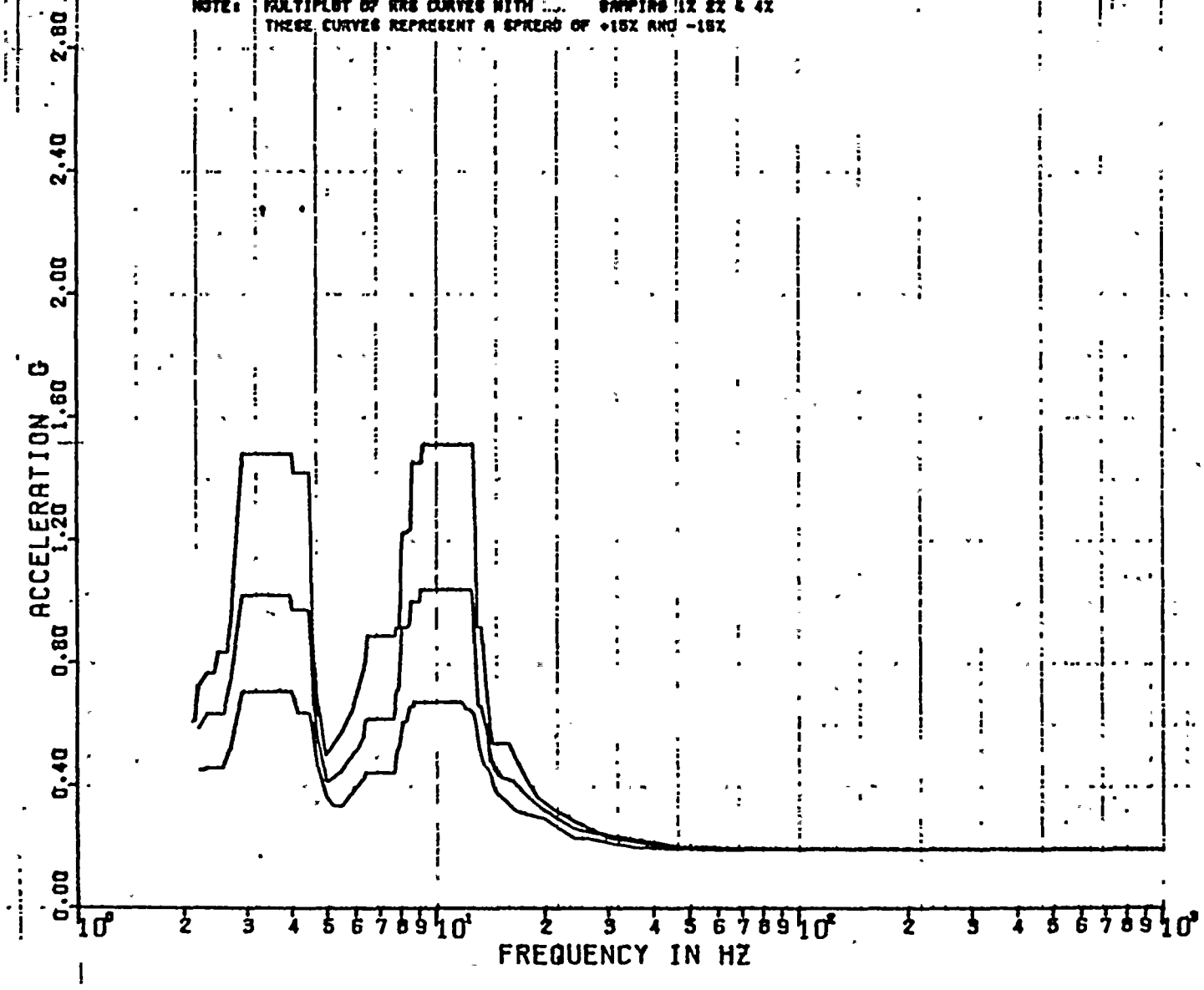
RMS OF ACCELERATION SECONDARY CONT.(ELEV. 240.0 FT)

MS 1746

MICHAEL K DO ..

DISK CURVE SET NO.29 HOR DIRECTION DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH ... DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 61

PSPECTRA VER 01 LEV 08 CONDITION 24 JAN 1989

NIAGARA MOHAWK-NINE MILES POINT UNIT -2 J.O. .177 MS-1746-0

RRS OF ACCELERATION SECONDARY CONT.(ELEV. 240.0 FT)

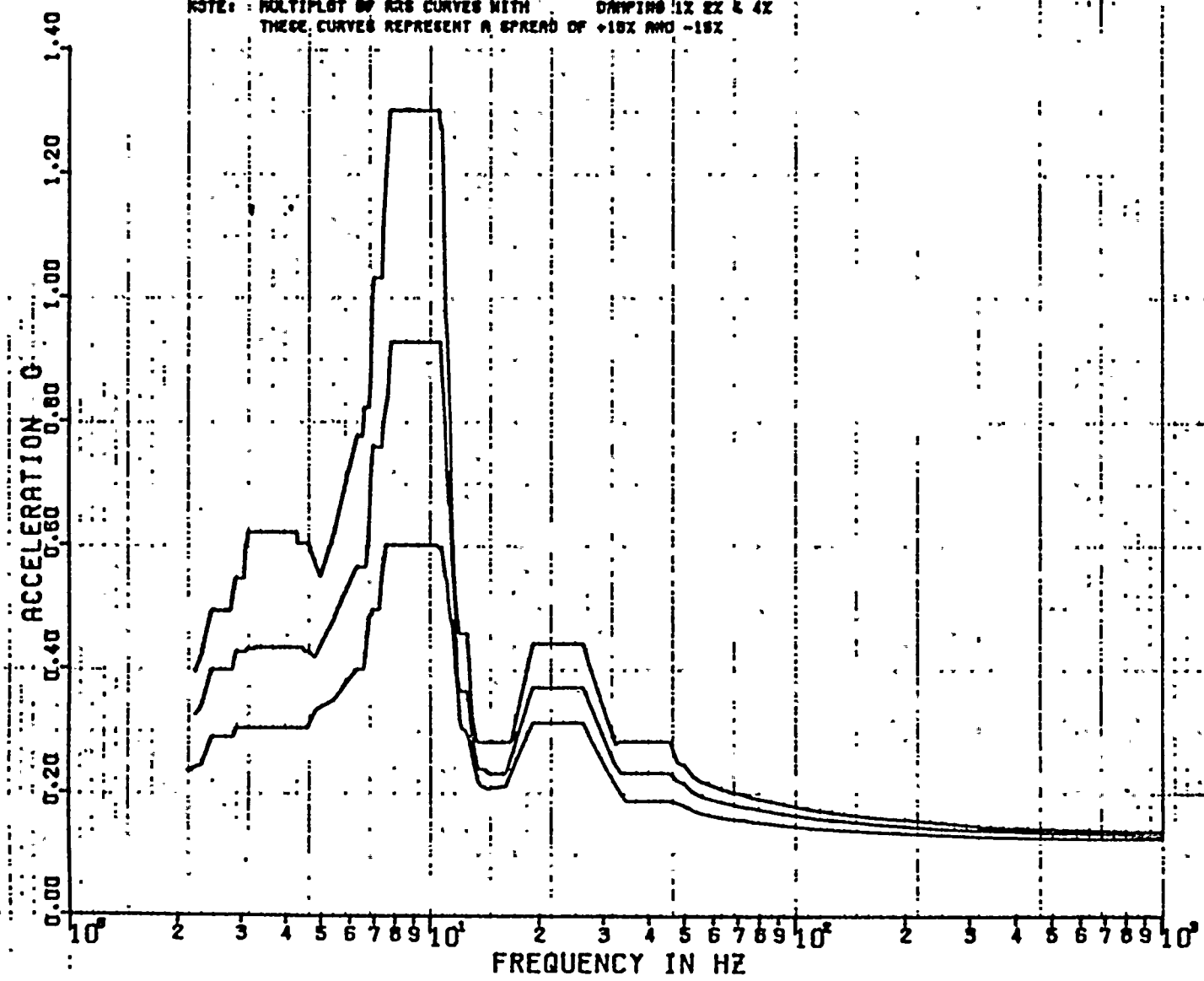
MS 1746

MICHAEL K 00

DISK CURVE SET NO.29. VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 61

PSPECTRA VER 01 LEV 08 TED CONDITION 25 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT -2 .12177 MS-1747-0

RRS OF ACCELERATION SECONDARY CONT.(ELEV. 215.0 FT)

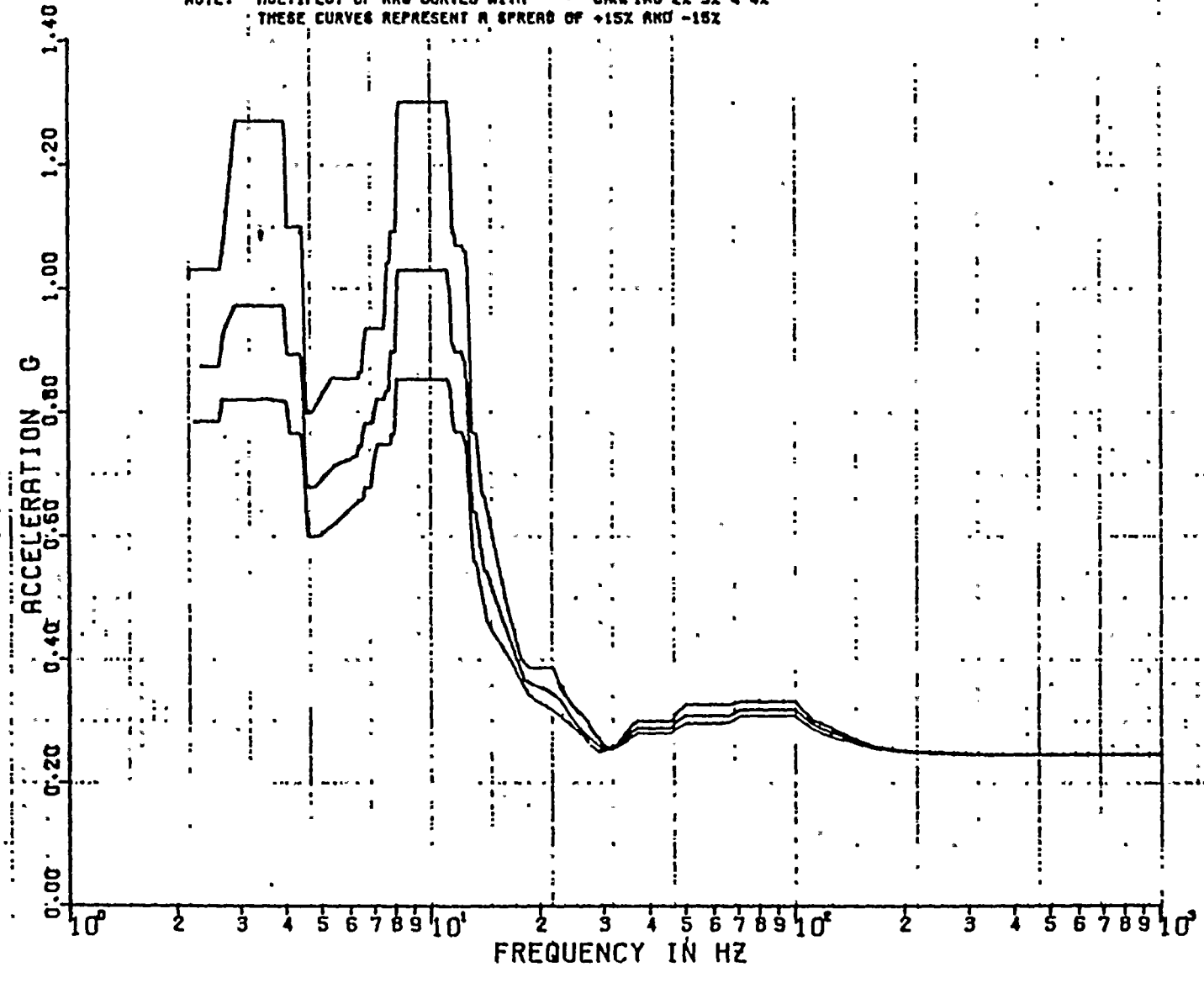
MS 1747

MICHAEL K 00

DISK CURVE SET NO.30 HOR DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 62

PSPECTRA VER 01 LEV 08 .TED CONDITION 25 JAN 1985

NIAGARA MOHAWK-NINE MILES POINT UNIT -2 .12177 MS-1747-0

RRS OF ACCELERATION SECONDARY CONT.(ELEV. 215.0 FT)

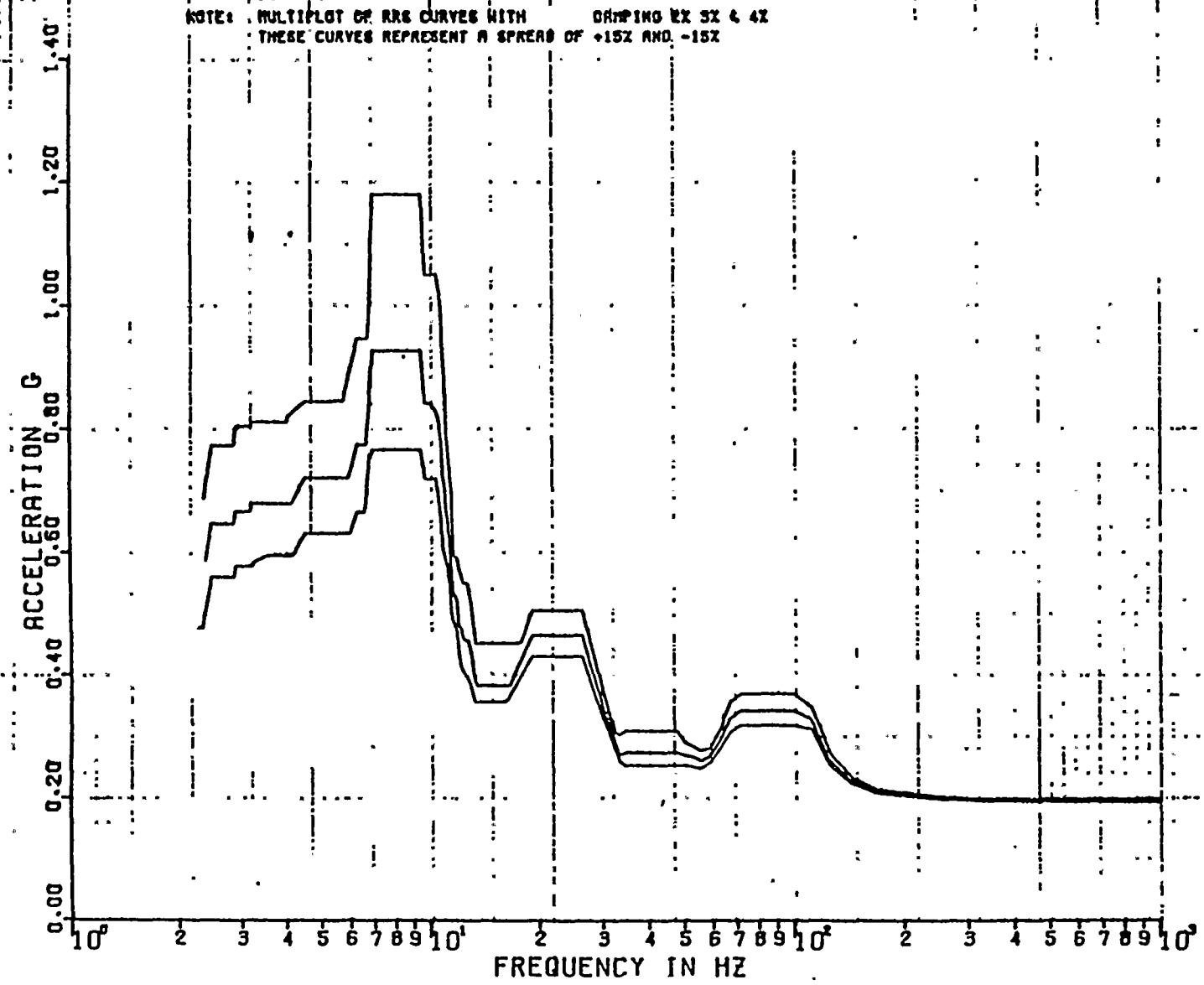
MS 1

MICHAEL K DO

DISK CURVE SET NO.30 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING EX 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 62

PSPECTRA VER 01 LEV 08 CONDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT -2 J.O.#.177 MS-1746-0

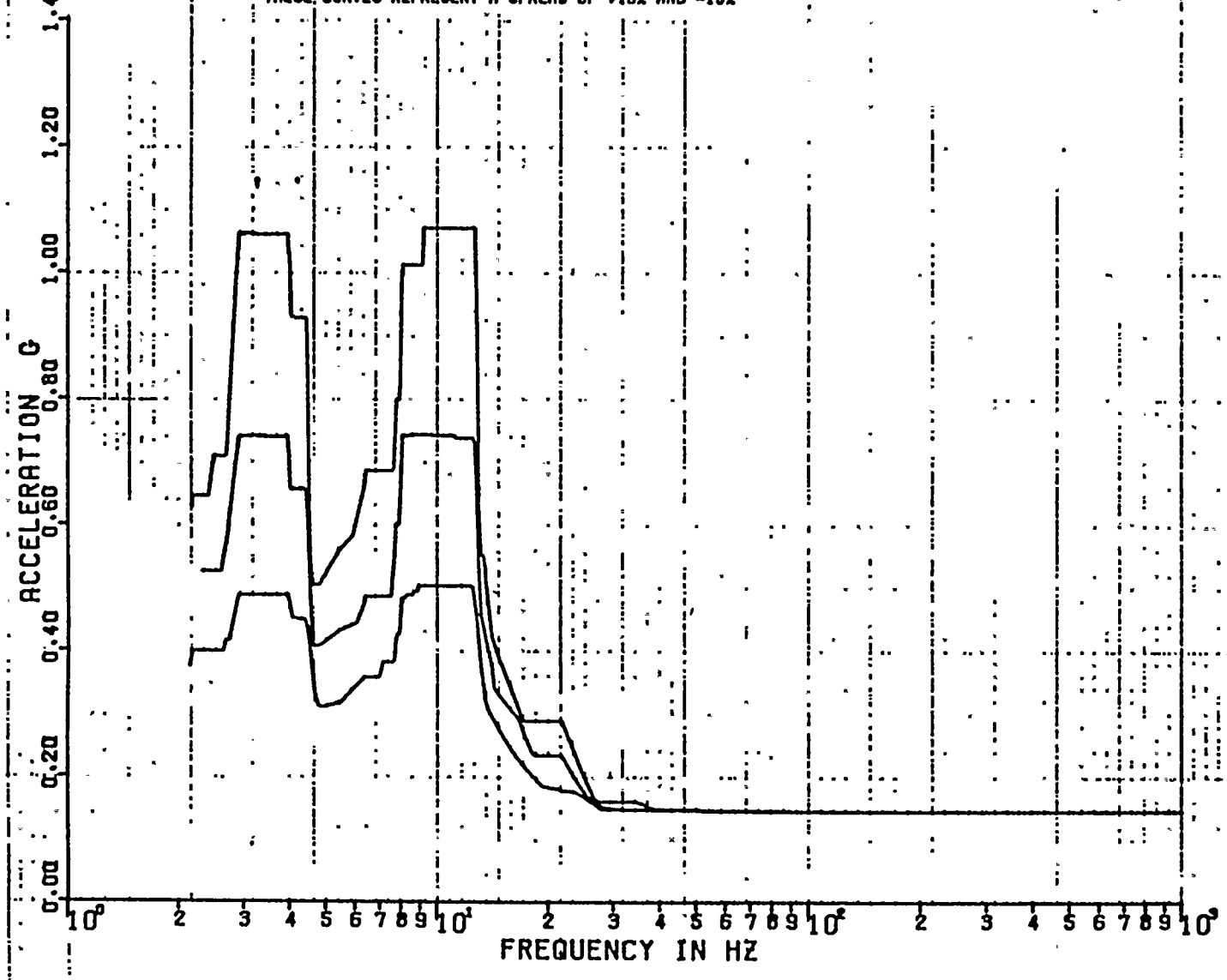
RRS OF ACCELERATION SECONDARY CONT.(ELEV. 215.0 FT)

MS 1746

MICHAEL K OO.

DISK CURVE SET NO.30 HOR DIRECTION DAMPING VALUES * 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 62

1

PSPECTRA VER 01 LEV 08 U CONDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT -2 J. .77 MS-1746-0

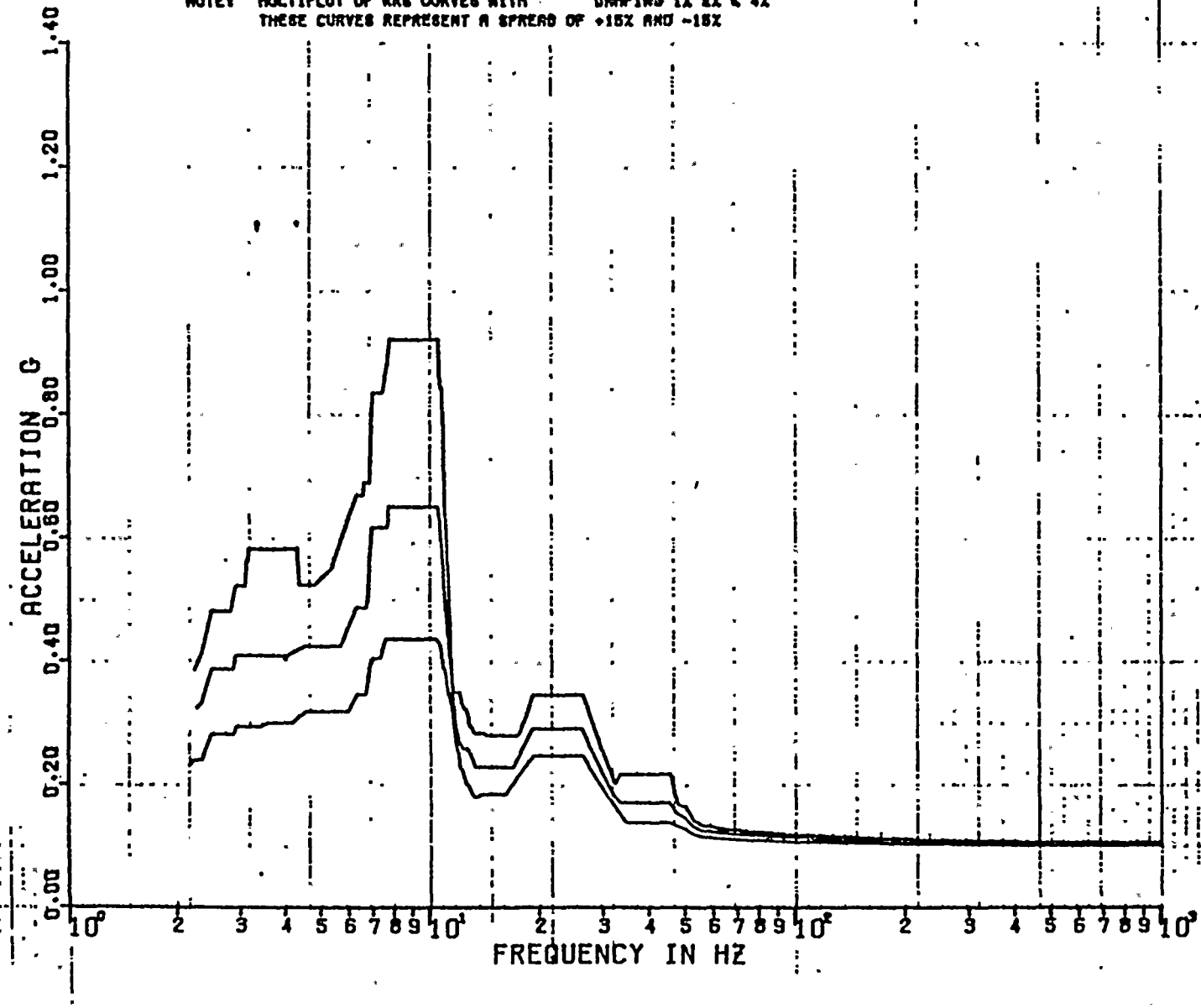
RRS OF ACCELERATION SECONDARY CONT.(ELEV. 215.0 FT)

MS 1746

MICHAEL K OO

DISK CURVE SET NO.30 VER DIRECTION DAMPING VALUES = 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



PAGE 62

PSPECTRA VER 01 LEV 08 . ...TED CONDITION 25 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT -2 J.O.12177 MS-1747-0

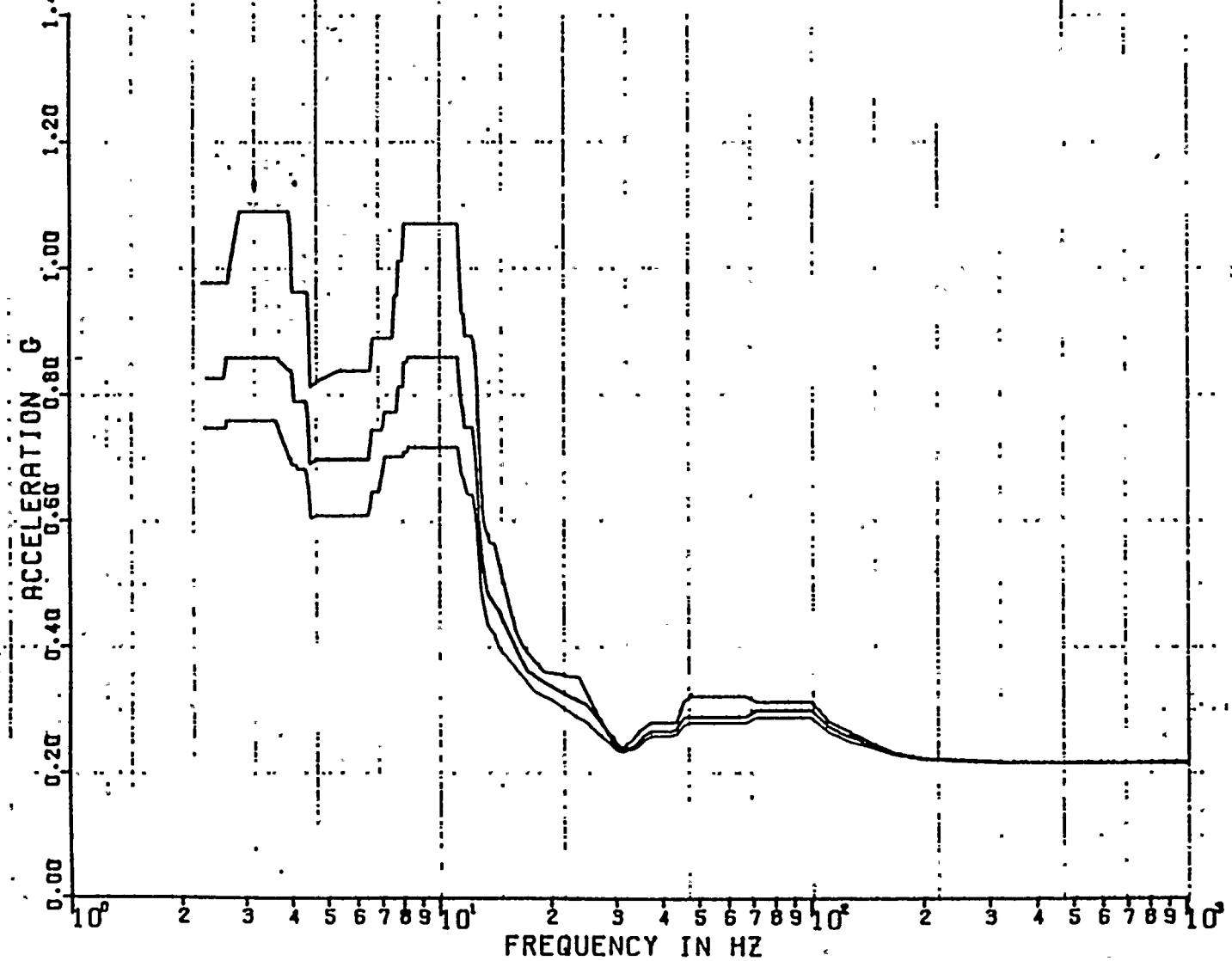
RRS OF ACCELERATION SECONDARY CONT.(ELEV. 198.0 FT)

MS 1747

MICHAEL K.OO

DISK CURVE SET NO.31 HOR DIRECTION DAMPING VALUES = 0.020 0.030 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 63

PSPECTRA VER 01 LEV 08 TED CONDITION 25 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT -2 S .12177 MS-1747-0

RRS OF ACCELERATION SECONDARY CONT.(ELEV. 198.0 FT)

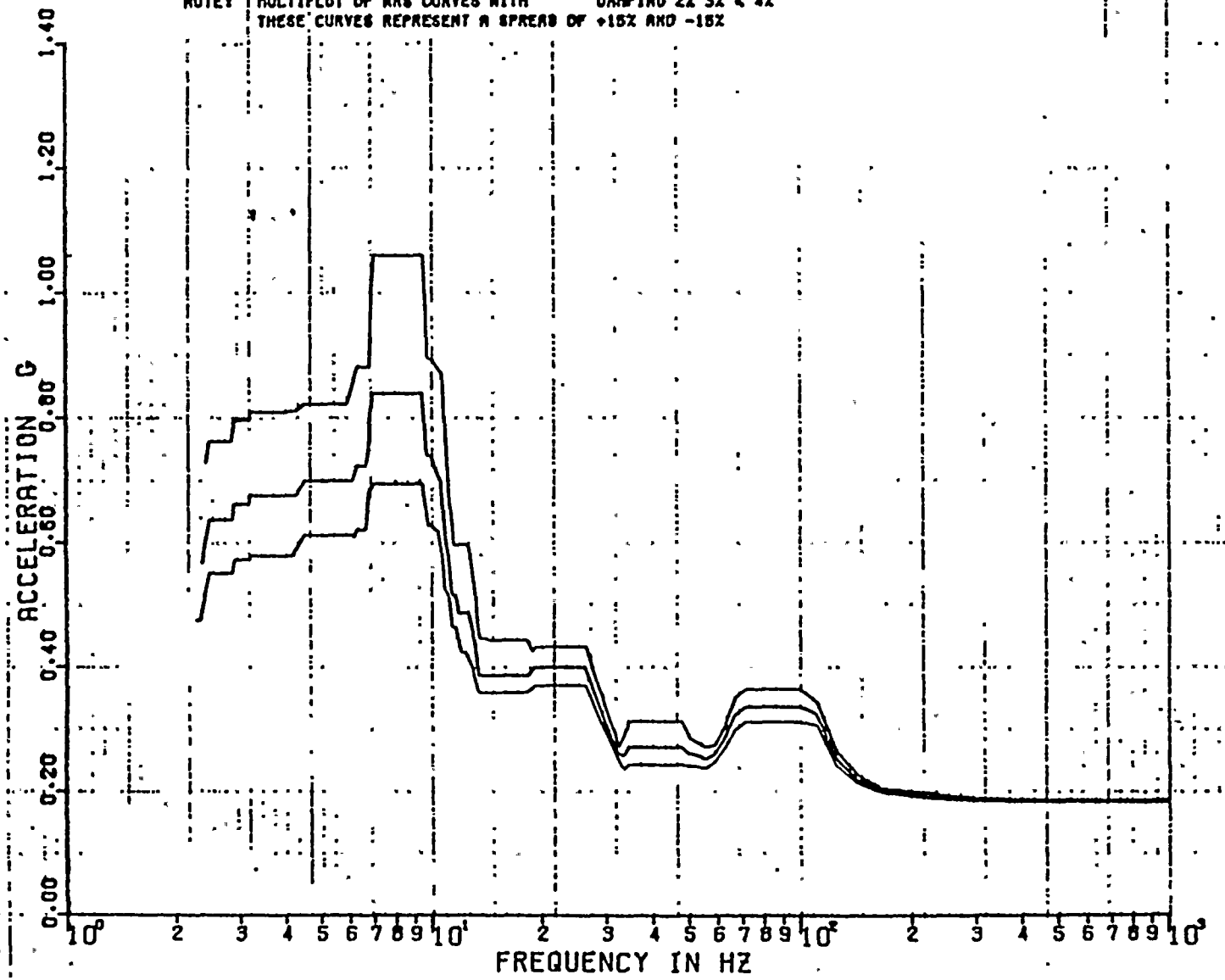
MS 1747

MICHAEL K.OO

DISK CURVE SET NO.31 VER DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 63

PSPECTRA VER 01 LEV 08 U-SET CONDITION 24 JAN 1989

NIAGARA MOHAWK-NINE MILES POINT UNIT -2 177 MS-1746-0

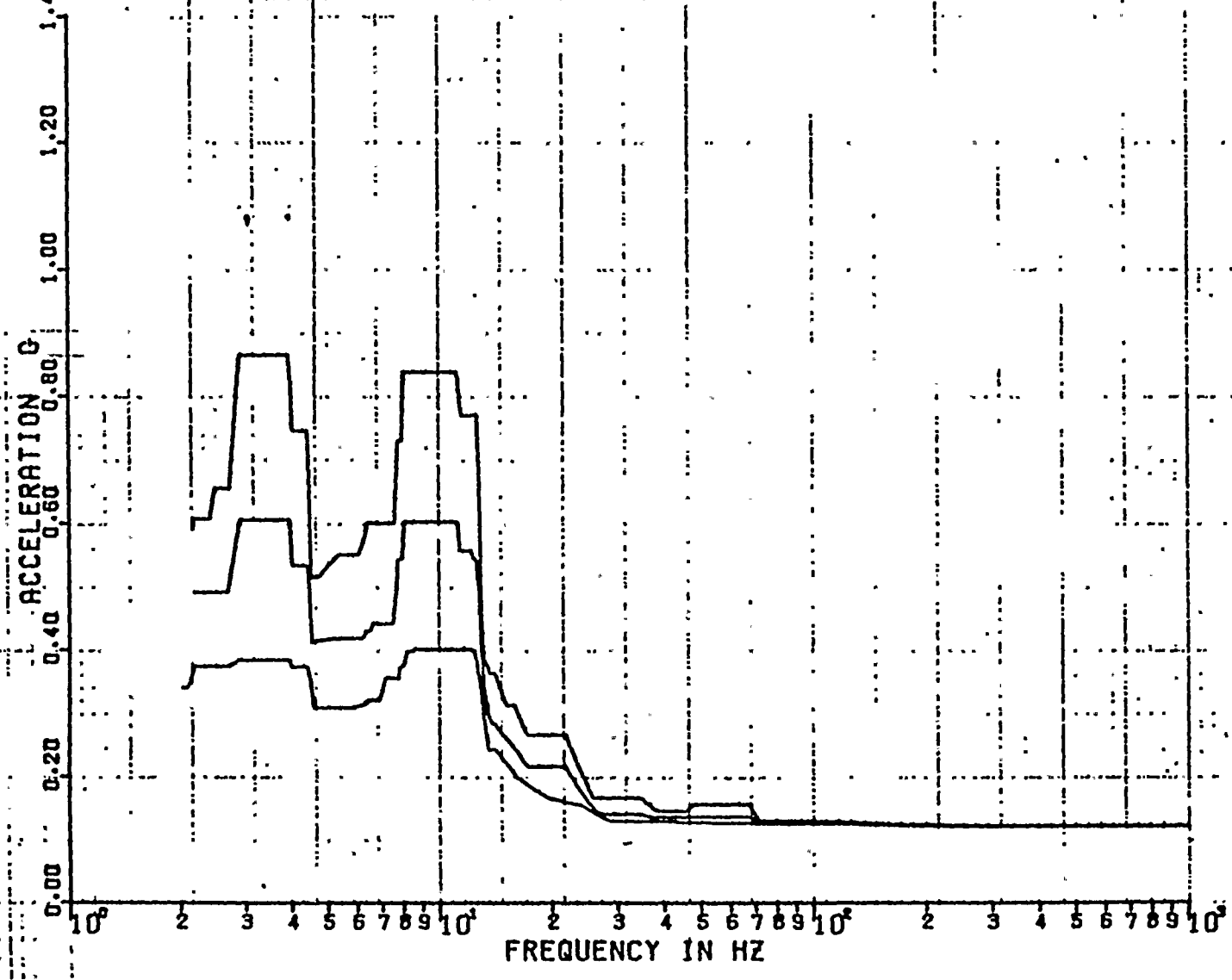
RRS OF ACCELERATION SECONDARY CONT.(ELE. 198.0 FT)

MS 1746

MICHAEL K DO

DISK CURVE SET NO.31 HOR DIRECTION DAMPING VALUES : 0.010 0.020 0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 63

PSPECTRA VER 01 LEV 08 CONDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT -2 J.C...177 MS-1746-0

RMS OF ACCELERATION SECONDARY CONT.(ELEV. 198.0 FT)

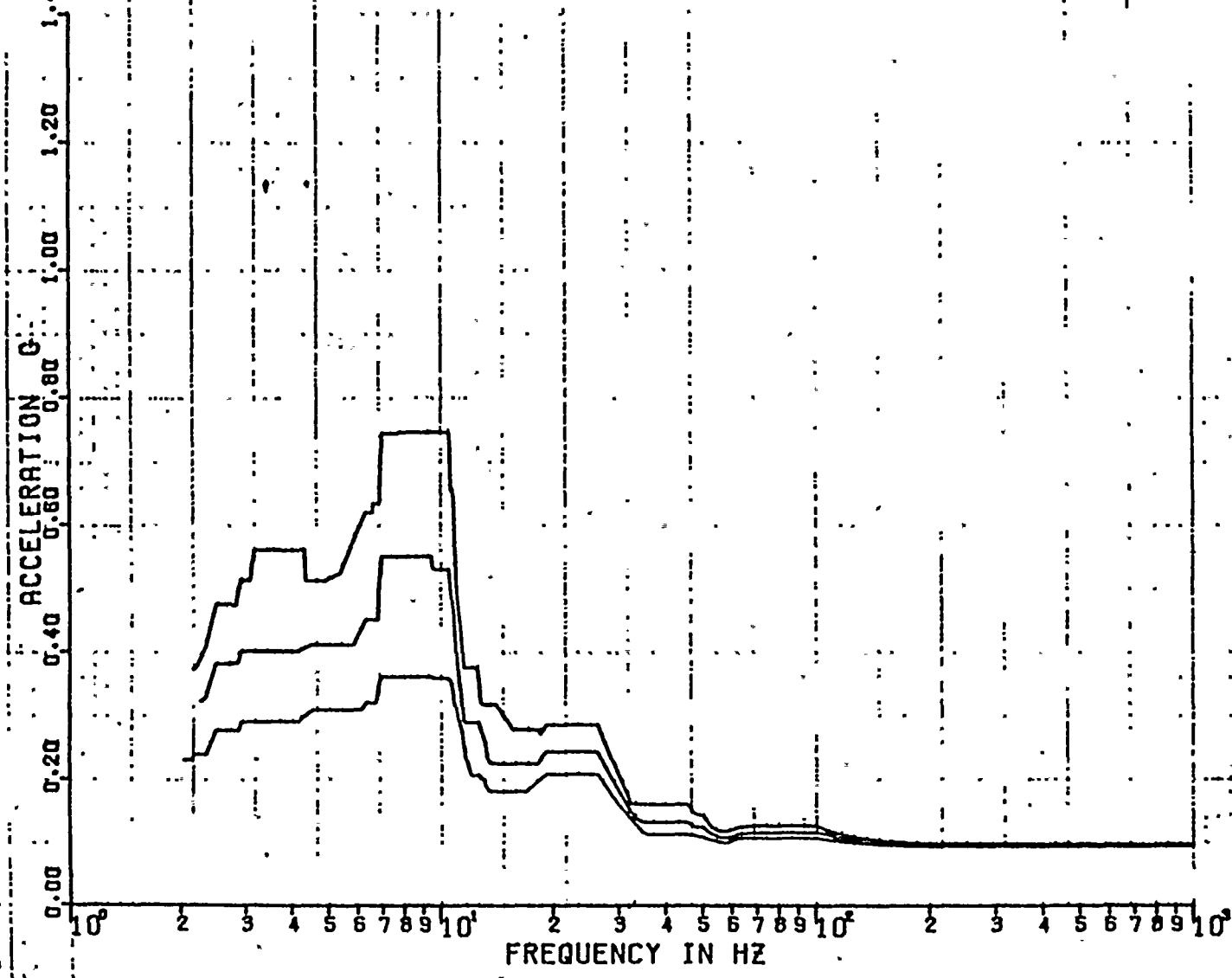
MS 1746

MICHAEL K DO

DISK CURVE: SET NO.31 VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 63

PSPECTRA VER 01 LEV 08 [illegible]D CONDITION 25 JAN 1989

NIAGARA MOHAWK-NINE MILES POINT UNIT -2 J[illegible]2177 MS-1747-0

RRS OF ACCELERATION SECONDARY CONT.(ELEV. 175.0 FT)

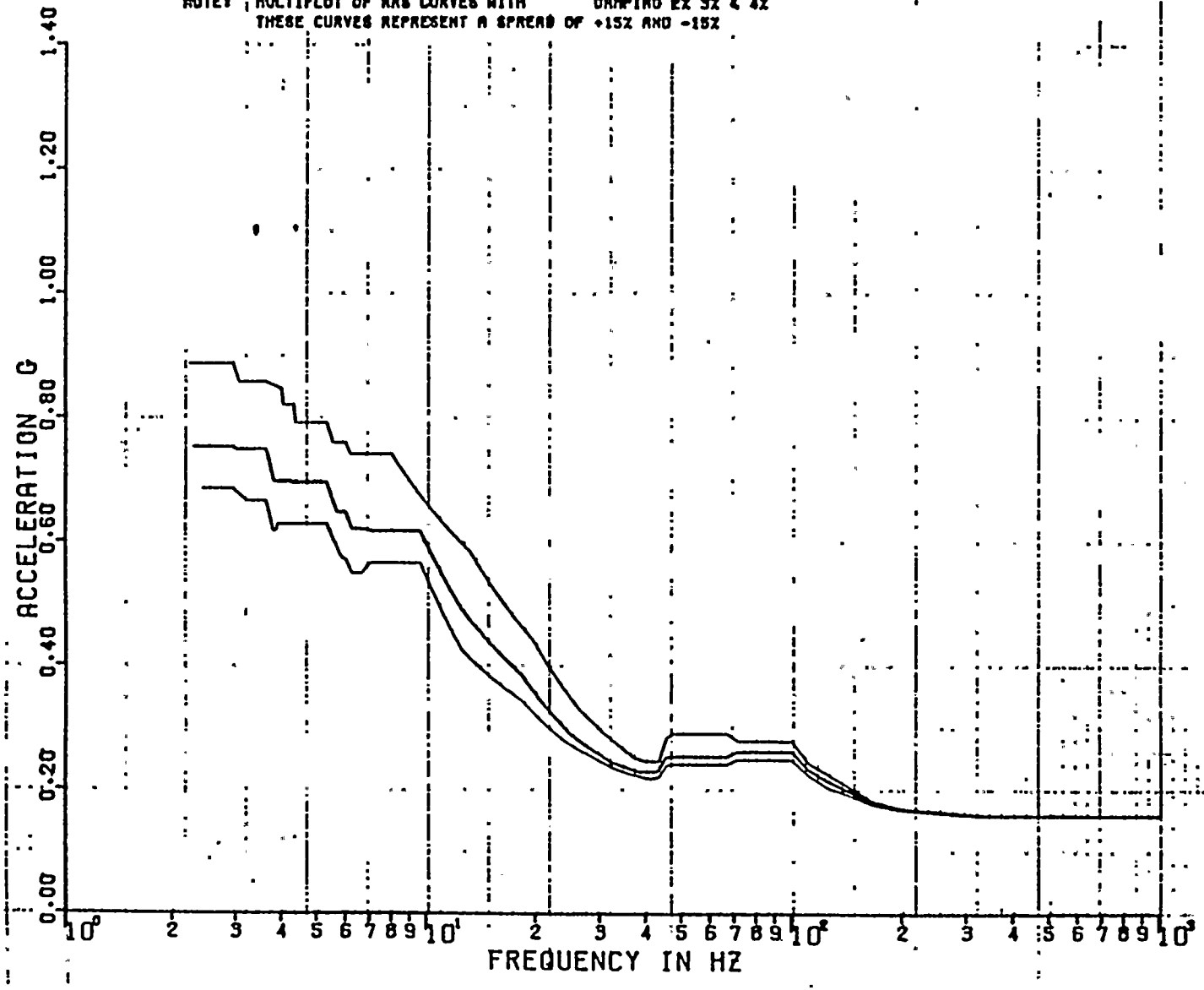
MS 1747

MICHAEL K OO

DISK CURVE SET NO.32 HOR DIRECTION

DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 64

PSPECTRA , VER 01 LEV 08 ED CONDITION 25 JAN 1988

NIAGARA MOHAWK-NINE MILES POINT UNIT -2 J.O.12177 MS-1747-0

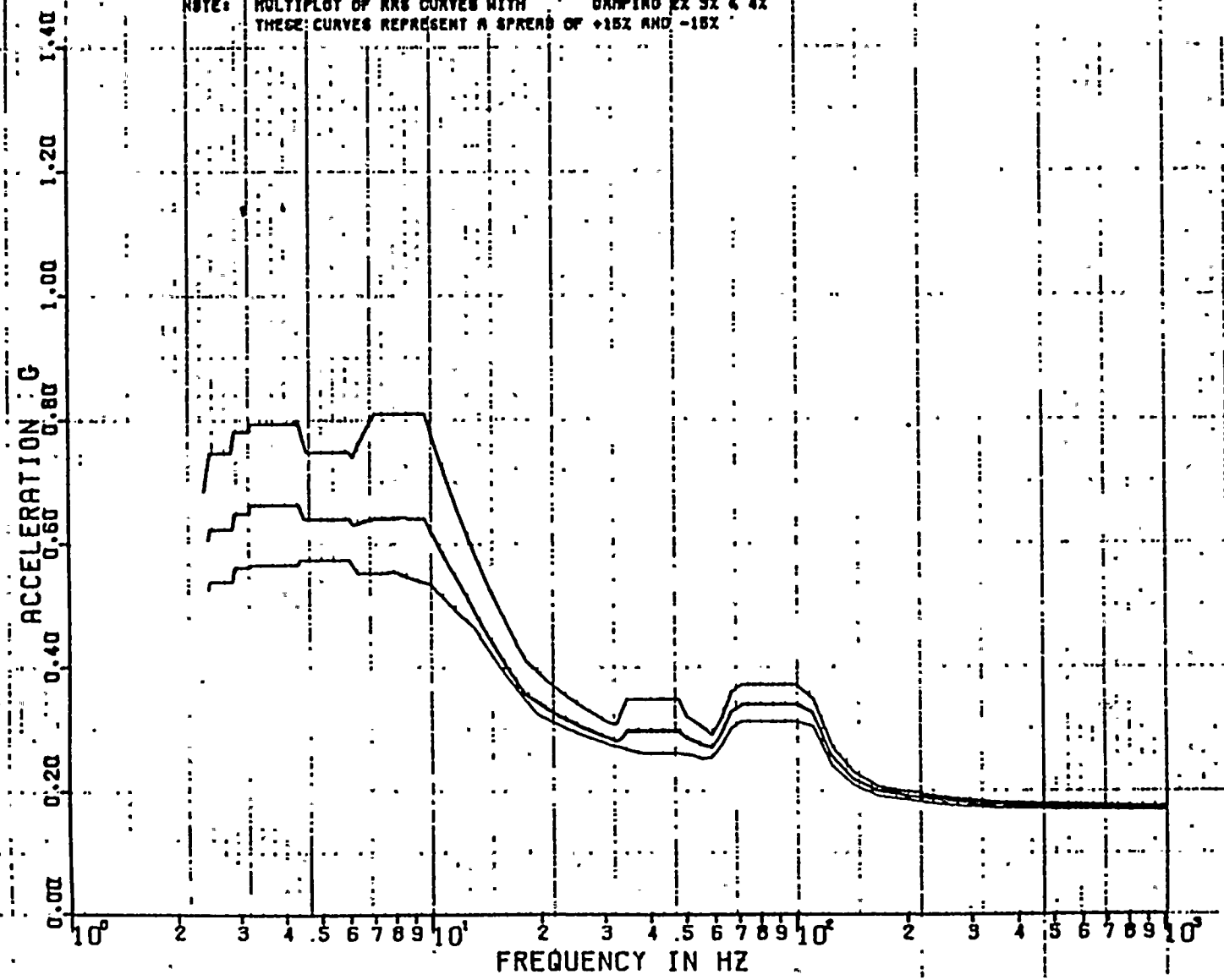
RRS OF ACCELERATION SECONDARY CONT.(ELEV. 175.0 FT)

MS 1747

MICHAEL K OO

DISK CURVE SET NO.32 VER DIRECTION DAMPING VALUES = 0.020
0.030
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 2% 3% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 64

PSPECTRA VER 01 LEV 08 U CONDITION 24 JAN 1983

NIAGARA MOHAWK-NINE MILES POINT UNIT -2 J.O. /7 MS-1746-0

RRS OF ACCELERATION SECONDARY CONT.(ELEV. 175.0 FT)

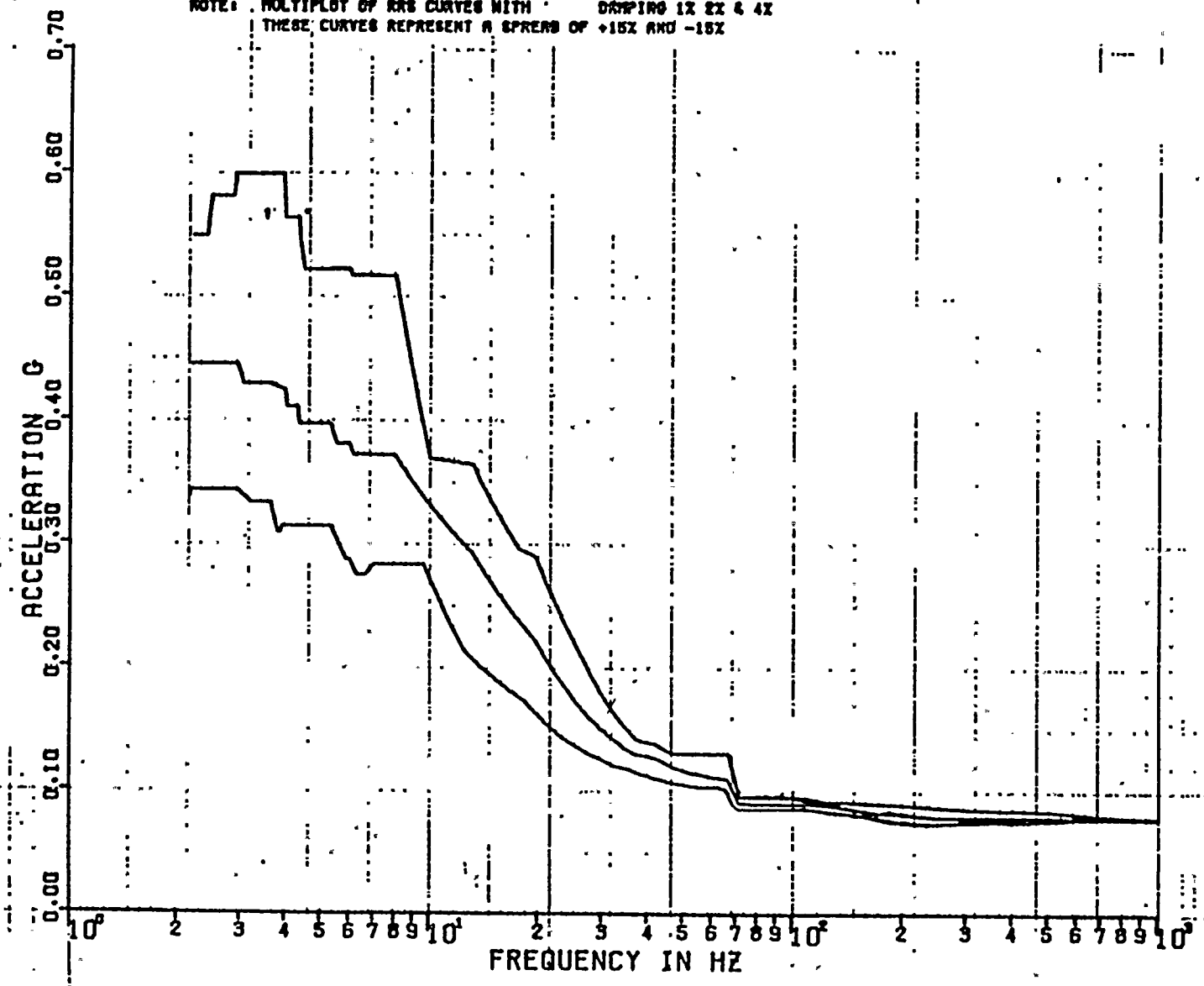
MS 1746

MICHAEL K OD,

DISK CURVE SET NO.32 HOR DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

NOTE: MULTIPLOT OF RRS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



REF 64

PSPECTRA VER 01 LEV 08 CONDITION 24 JAN 1985

NIAGARA MOHAWK-NINE MILES POINT UNIT -2 J.0[illegible].77 MS-1746-0

RMS OF ACCELERATION SECONDARY CONT.(ELEV. 175.0 FT)

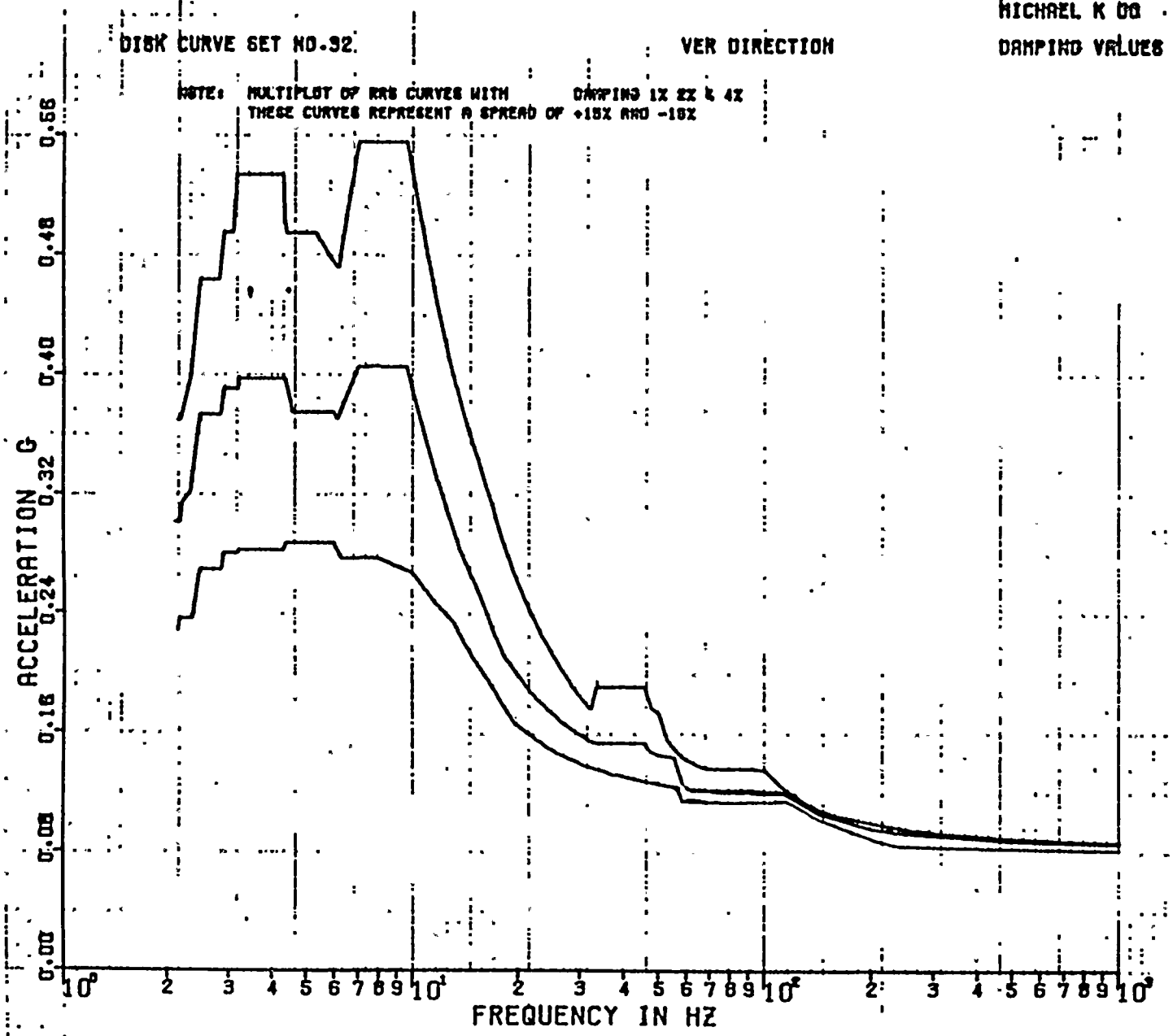
MS 1746

MICHAEL K DO

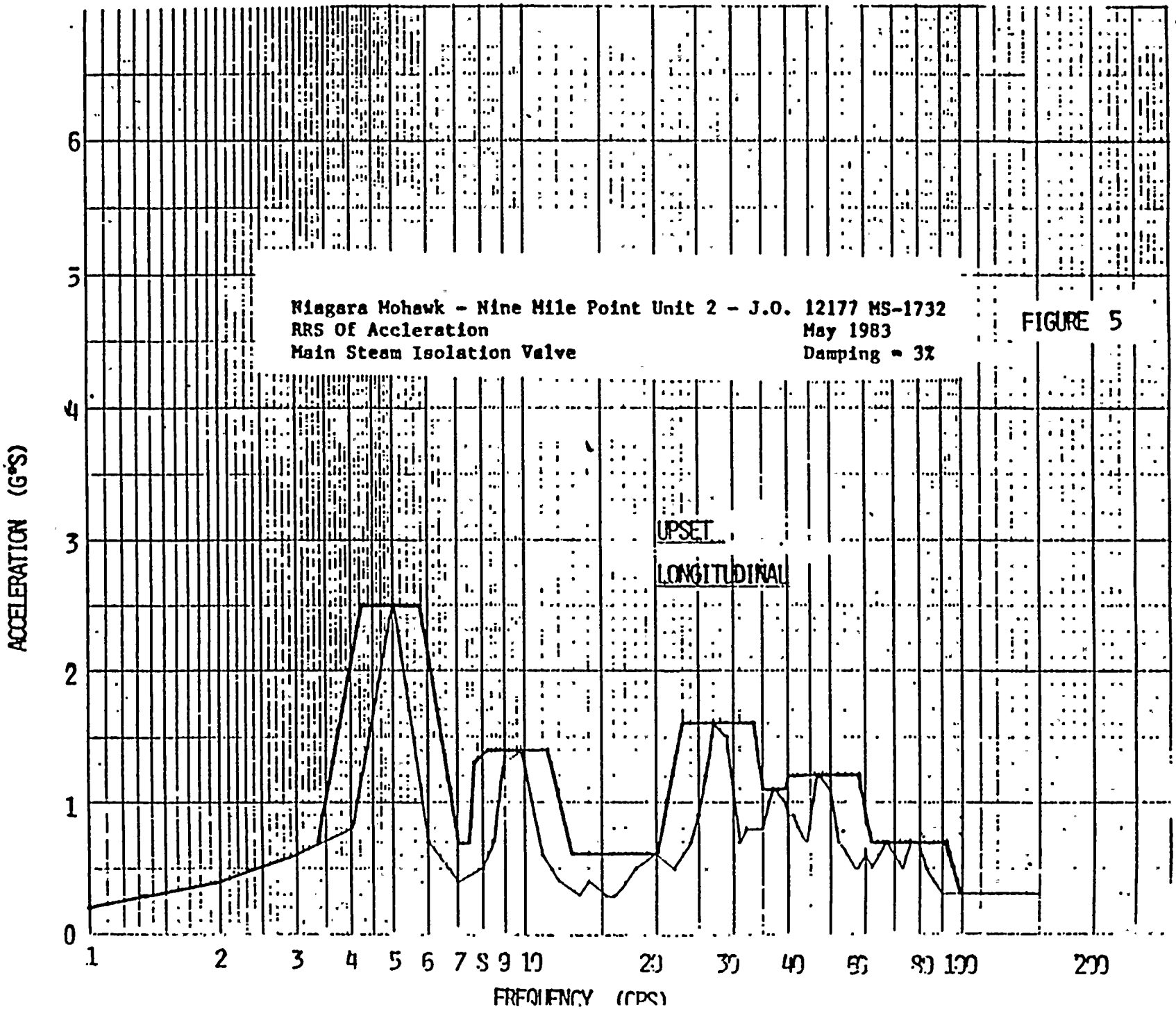
DISK CURVE SET NO.92. VER DIRECTION

DAMPING VALUES = 0.010
0.020
0.040

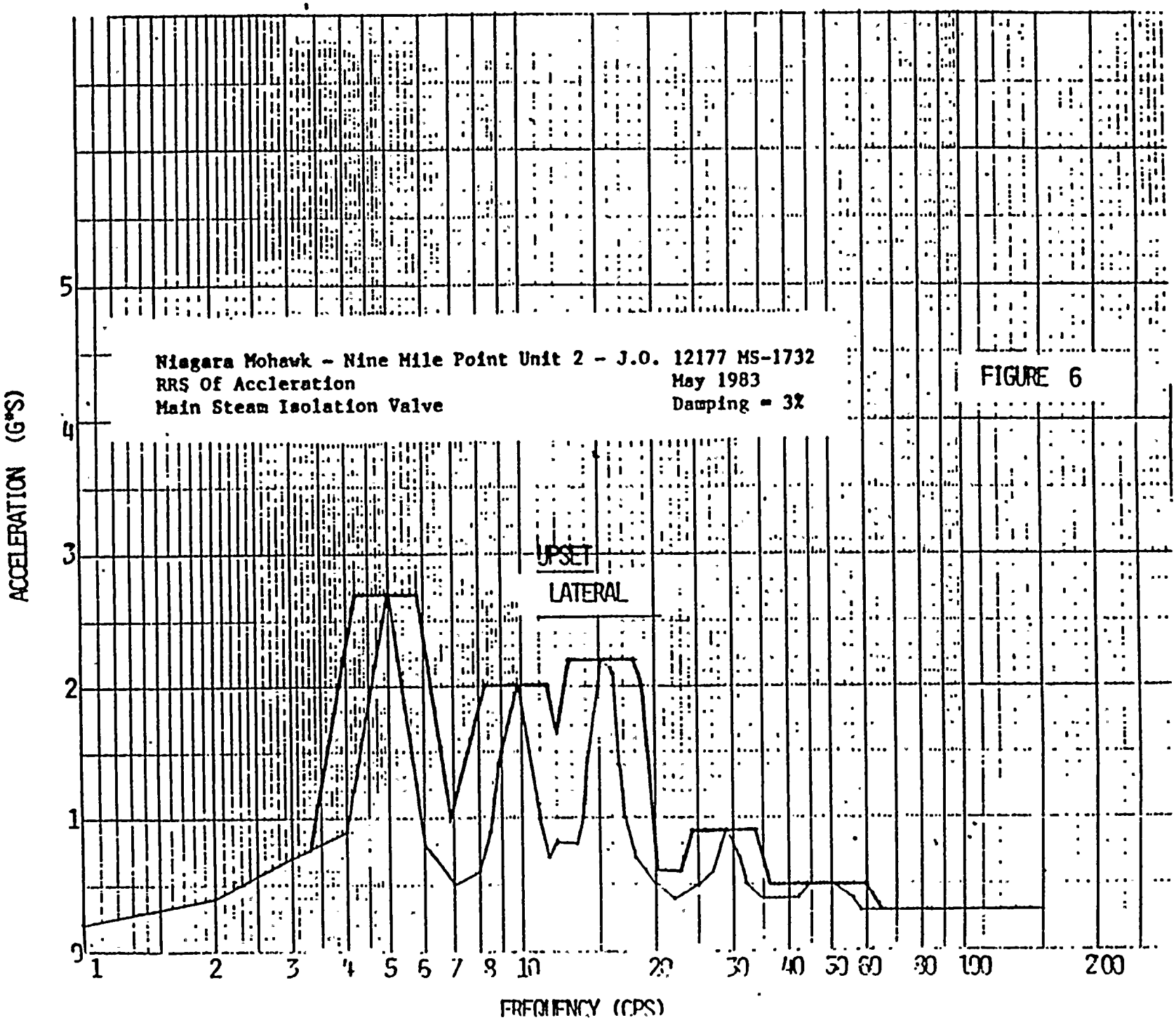
NOTE: MULTIPLOT OF RMS CURVES WITH DAMPING 1% 2% & 4%
THESE CURVES REPRESENT A SPREAD OF +15% AND -15%



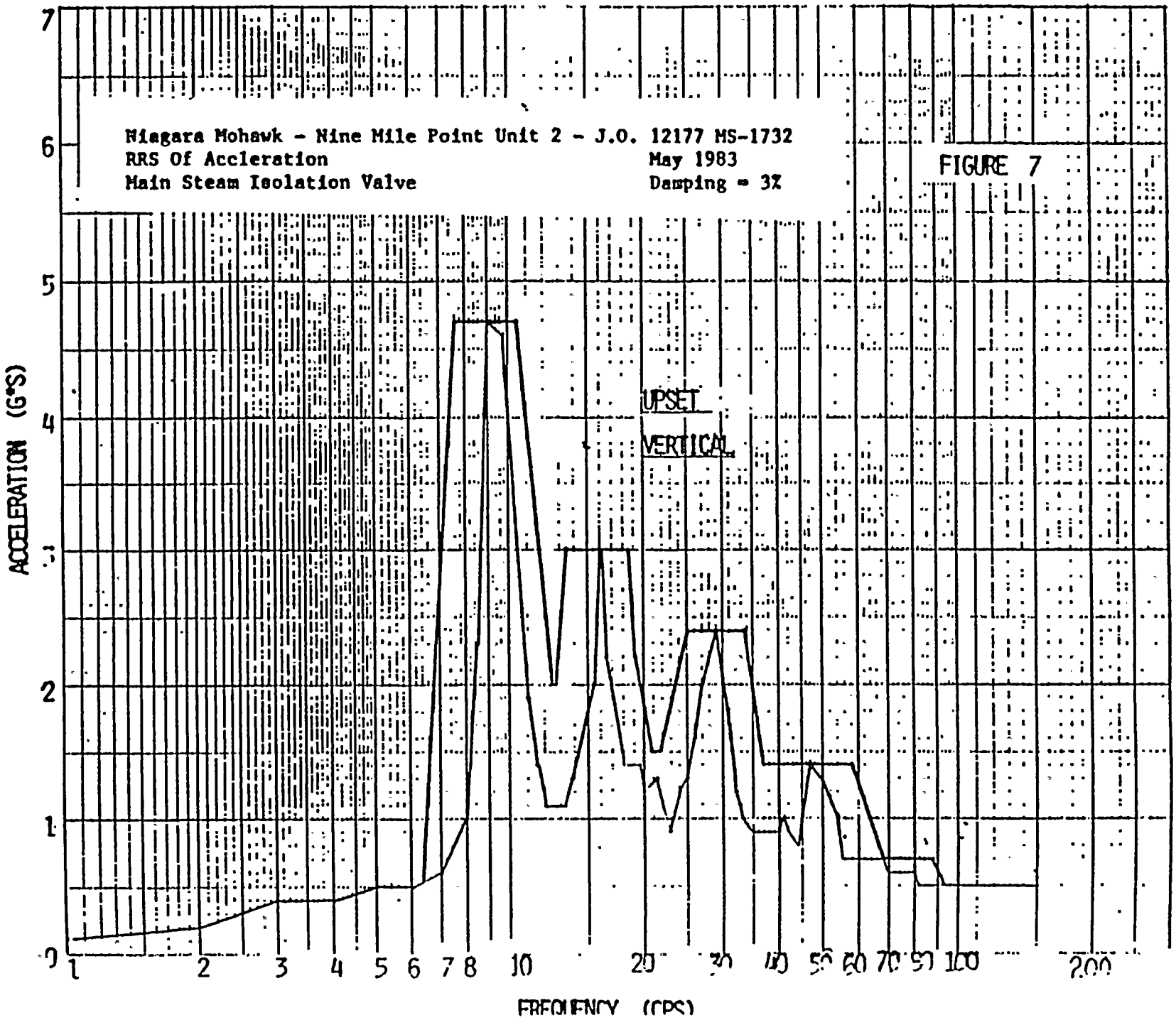
REF 64


Niagara Mohawk - Nine Mile Point Unit 2 - J.O. 12177 MS-1732
RRS Of Accleration
Main Steam Isolation Valve
May 1983
Damping = 3%
FIGURE 5
UPSET
LONGITUDINAL
ACCELERATION (G'S)
FREQUENCY (CPS)
0
1
2
3
4
5
6
1
2
3
4
5
6
7
8
9
10
20
30
40
50
80
100
200

REF 64A


Niagara Mohawk - Nine Mile Point Unit 2 - J.O. 12177 MS-1732
RRS Of Accleration
Main Steam Isolation Valve
May 1983
Damping = 3%
FIGURE 6
UPSET
LATERAL
ACCELERATION (G*S)
0
1
2
3
4
5
1
2
3
4
5
6
7
8
10
20
30
40
50
60
80
100
200
FREQUENCY (CPS)

REF 64A


Niagara Mohawk - Nine Mile Point Unit 2 - J.O. 12177 MS-1732
RRS Of Accleration
Main Steam Isolation Valve
May 1983
Damping = 3%
FIGURE 7
UPSET
VERTICAL
ACCELERATION (G'S)
FREQUENCY (CPS)
0
1
2
3
4
5
6
7
1
2
3
4
5
6
7
8
10
20
30
40
50
60
70
80
100
200

REF 644

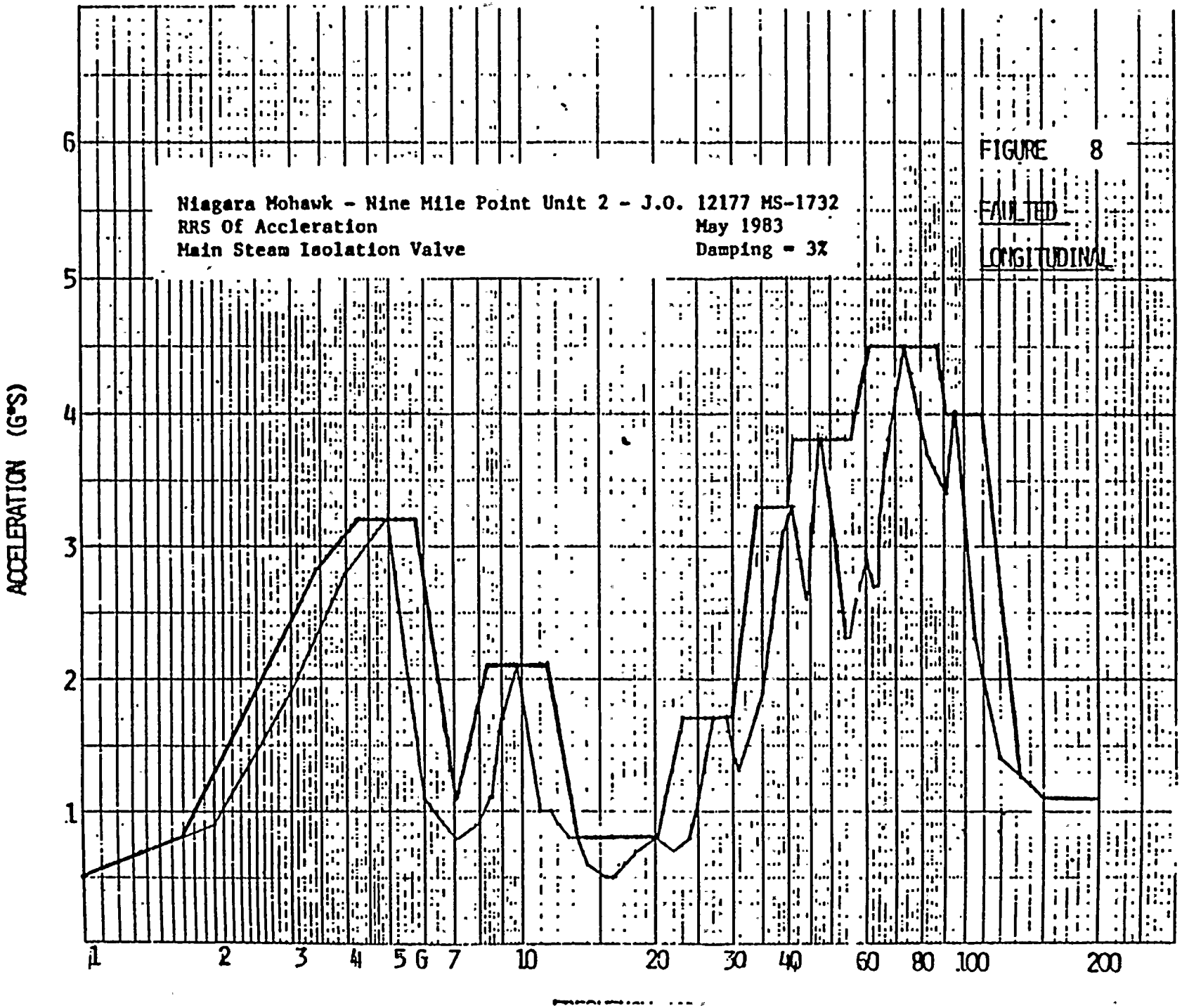
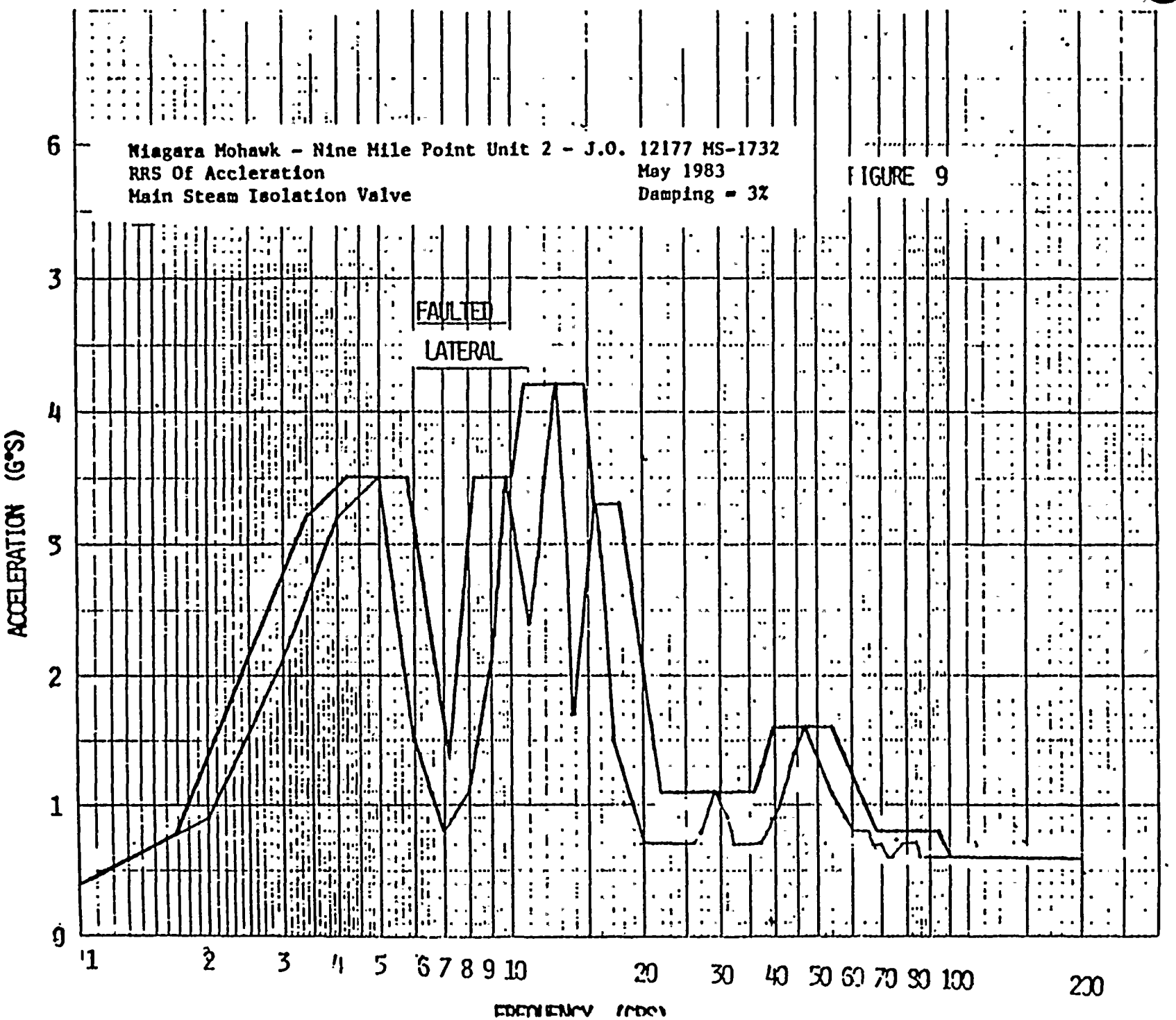
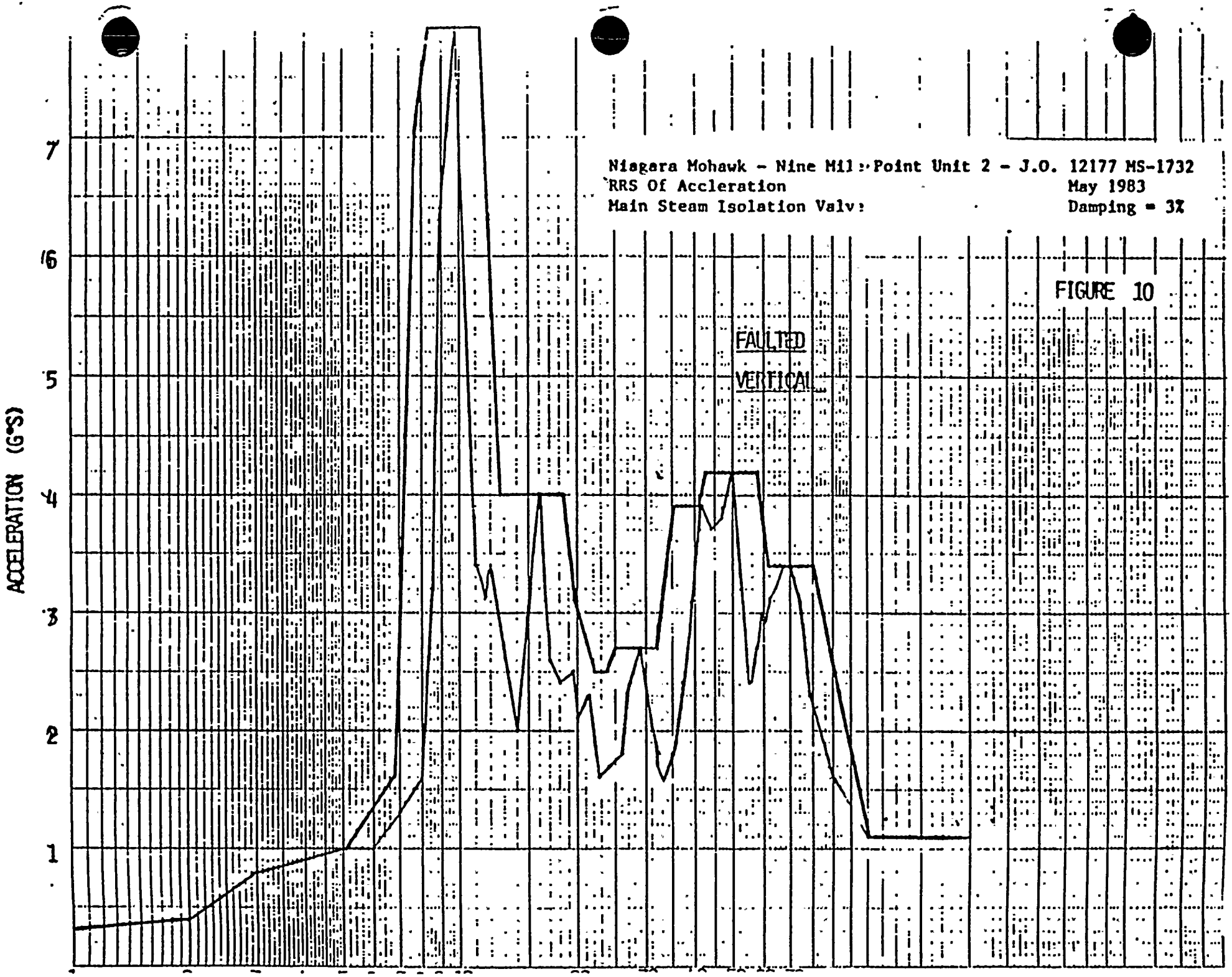


FIGURE 8

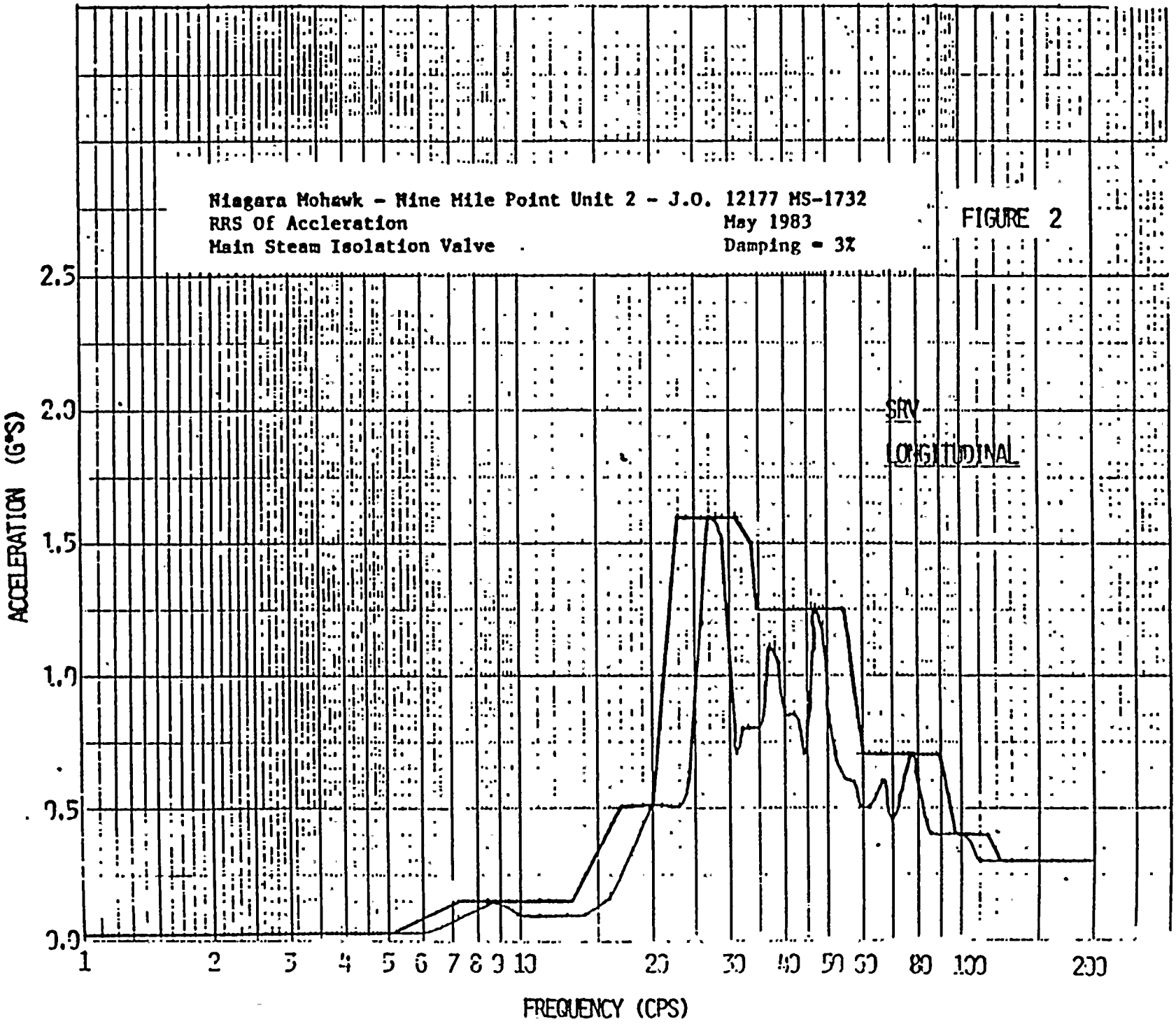
REF 64A


Niagara Mohawk - Nine Mile Point Unit 2 - J.O. 12177 MS-1732
RRS Of Accleration
Main Steam Isolation Valve
May 1983
Damping = 3%
FIGURE 9
FAULTED
LATERAL
ACCELERATION (G'S)
6
3
4
5
2
1
0
1
2
3
4
5
6 7 8 9 10
20
30
40
50 60 70 80 100
200

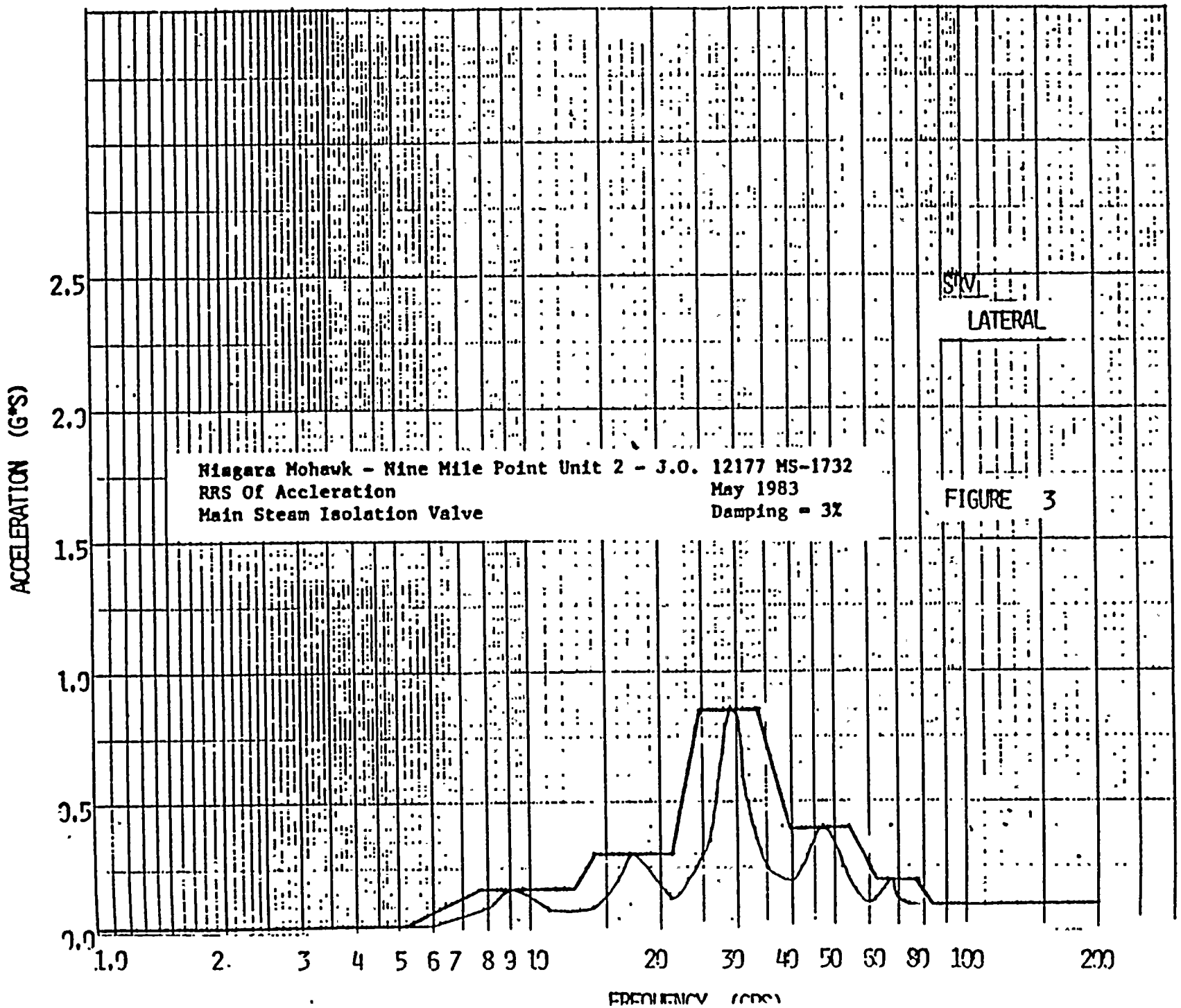
REF 64X


Niagara Mohawk - Nine Mil: Point Unit 2 - J.O. 12177 MS-1732
RRS Of Accleration
May 1983
Main Steam Isolation Valv:
Damping = 3%
FIGURE 10
FAULTED
VERTICAL
ACCELERATION (G'S)
7
6
5
4
3
2
1

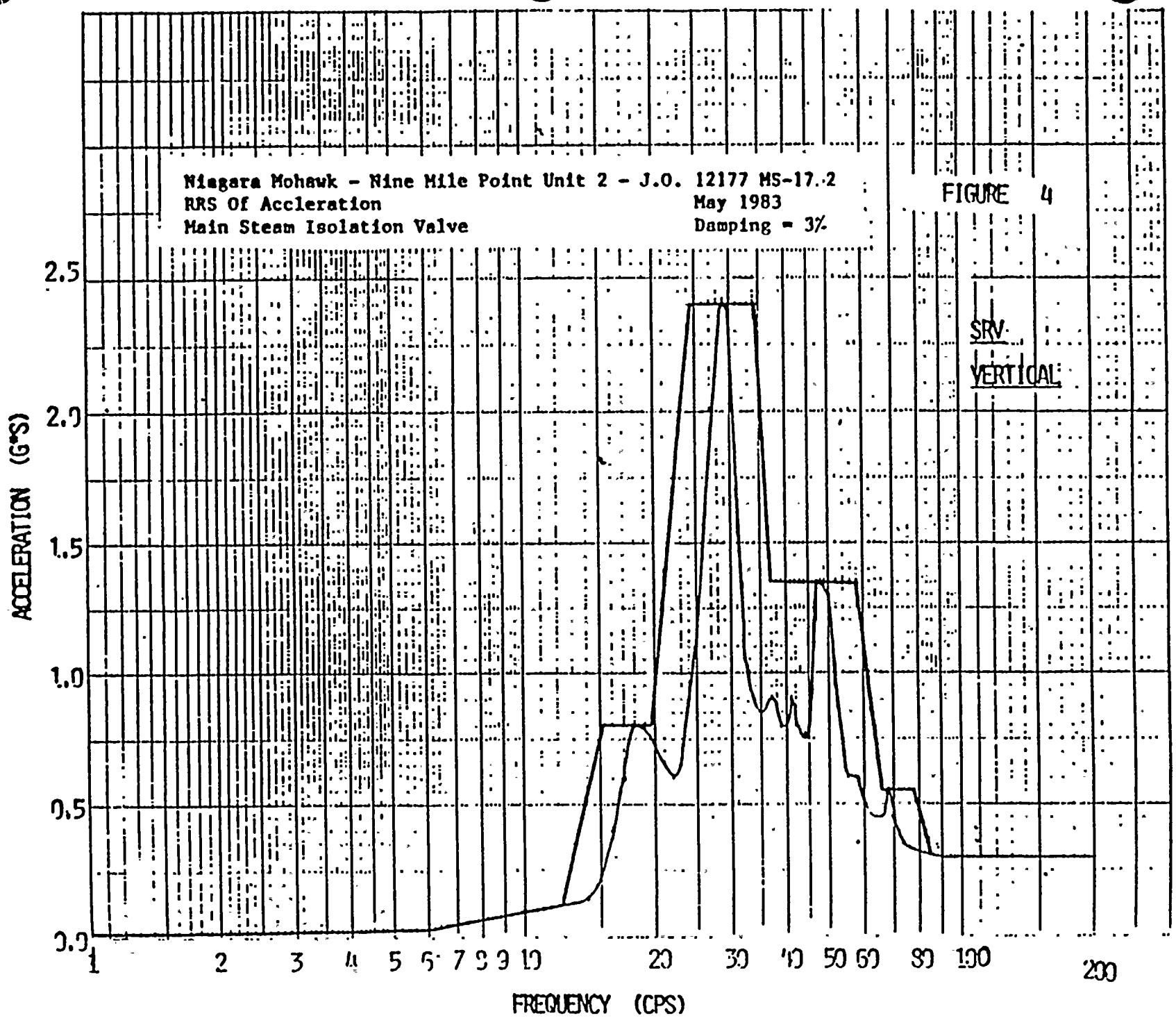
REF 64A


Niagara Mohawk - Nine Mile Point Unit 2 - J.O. 12177 MS-1732
RRS Of Accleration
May 1983
Main Steam Isolation Valve
Damping = 3%
FIGURE 2
SRV
LONGITUDINAL
ACCELERATION (G'S)
2.5
2.0
1.5
1.0
0.5
0.0
1
2
3
4
5
6
7
8
9
10
20
30
40
50
60
80
100
200
FREQUENCY (CPS)

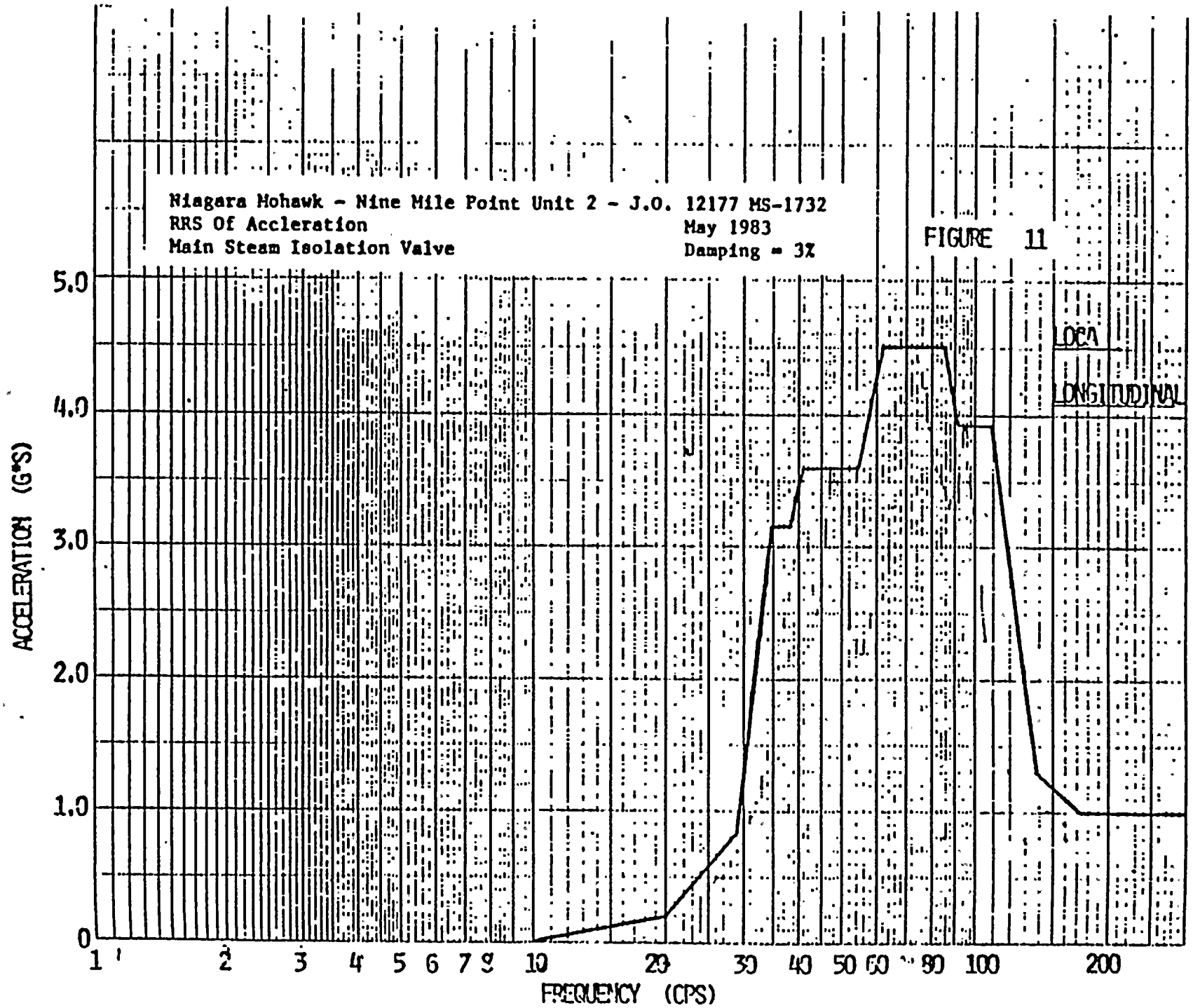
REF 64A


Niagara Mohawk - Nine Mile Point Unit 2 - J.O. 12177 MS-1732
RRS Of Accleration
Main Steam Isolation Valve
May 1983
Damping = 3%
FIGURE 3
SRV
LATERAL
ACCELERATION (G*S)
2.5
2.0
1.5
1.0
0.5
0.0
1.0
2.
3
4
5
6
7
8
9
10
20
30
40
50
60
80
100
200
FREQUENCY (CPS)

REF 64A


Niagara Mohawk - Nine Mile Point Unit 2 - J.O. 12177 MS-17.2
RRS Of Accleration
Main Steam Isolation Valve
May 1983
Damping = 3%
FIGURE 4
SRV
VERTICAL
ACCELERATION (G*S)
2.5
2.0
1.5
1.0
0.5
0.0
1
2
3
4
5
6
7
8
9
10
20
30
40
50
60
80
100
200
FREQUENCY (CPS)

REF 64A

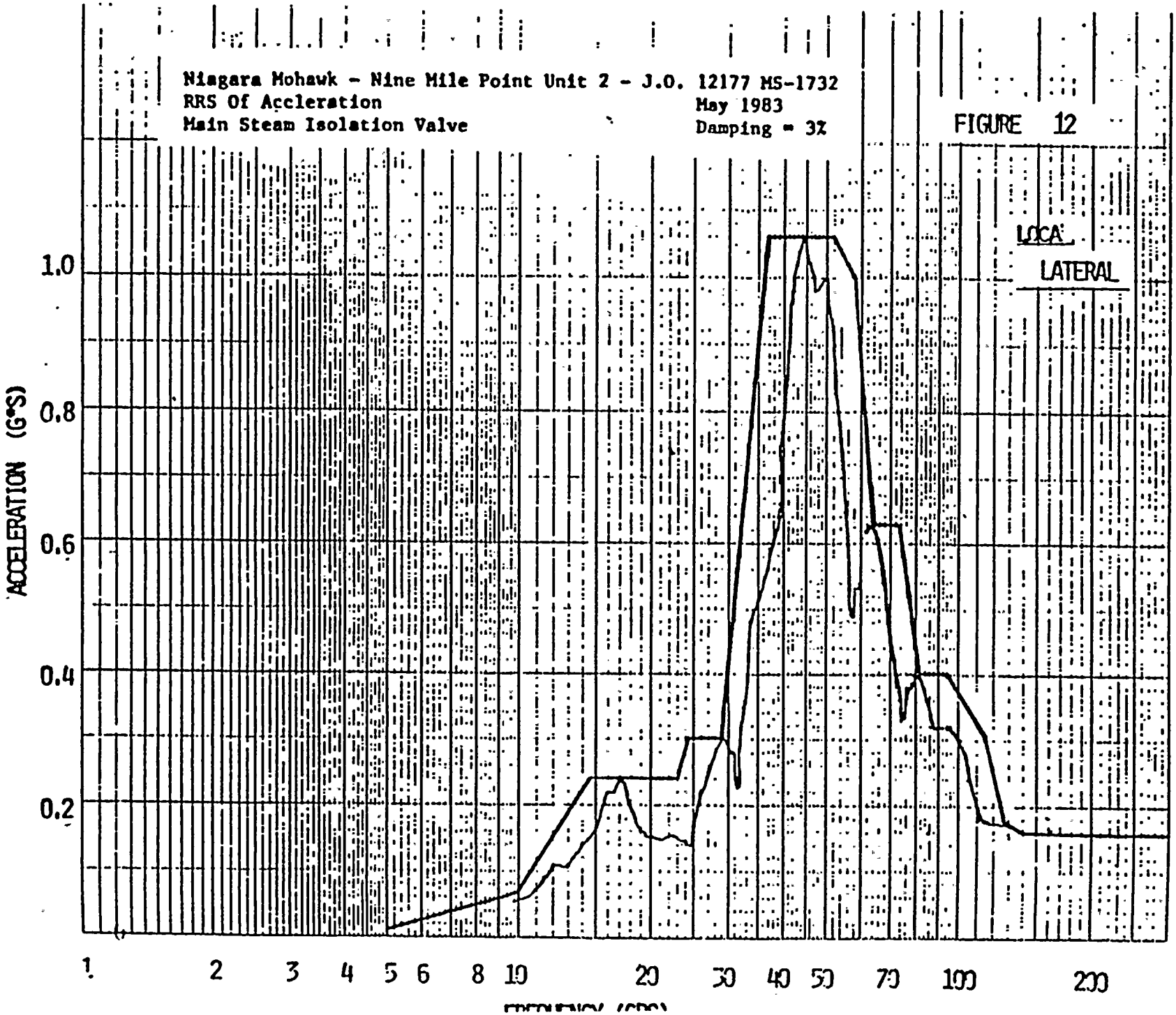

Niagara Mohawk - Nine Mile Point Unit 2 - J.O. 12177 MS-1732
RRS Of Accleration
Main Steam Isolation Valve
May 1983
Damping = 3%
FIGURE 11
LOCA
LONGITUDINAL
ACCELERATION (G'S)
5.0
4.0
3.0
2.0
1.0
0
1
2
3
4
5
6
7
8
10
20
30
40
50
60
80
100
200
FREQUENCY (CPS)

REF 6.4.8

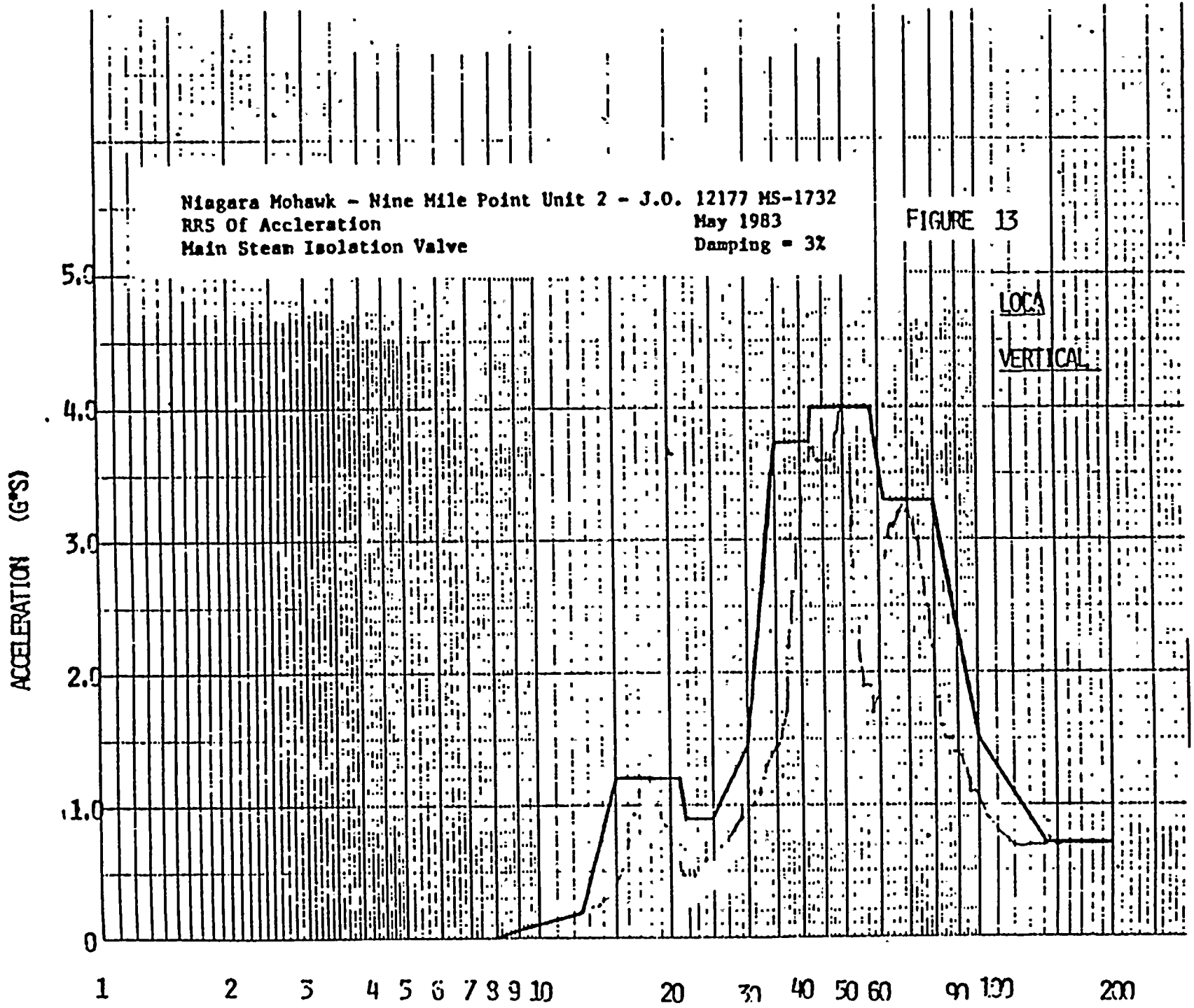
Niagara Mohawk - Nine Mile Point Unit 2 - J.O. 12177 MS-1732
RRS Of Accleration
Main Steam Isolation Valve

May 1983
Damping = 3%

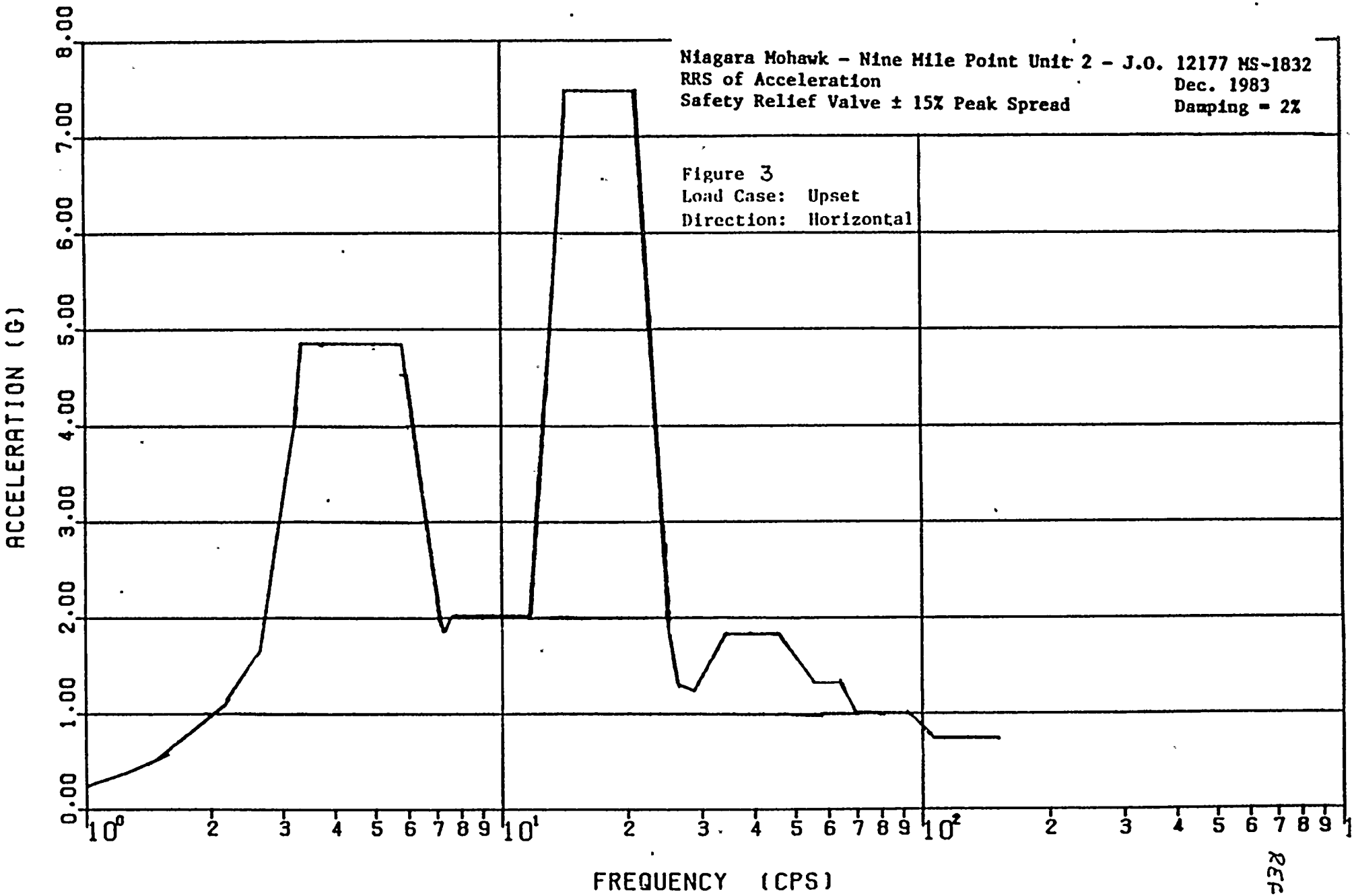
FIGURE 12



REF 644

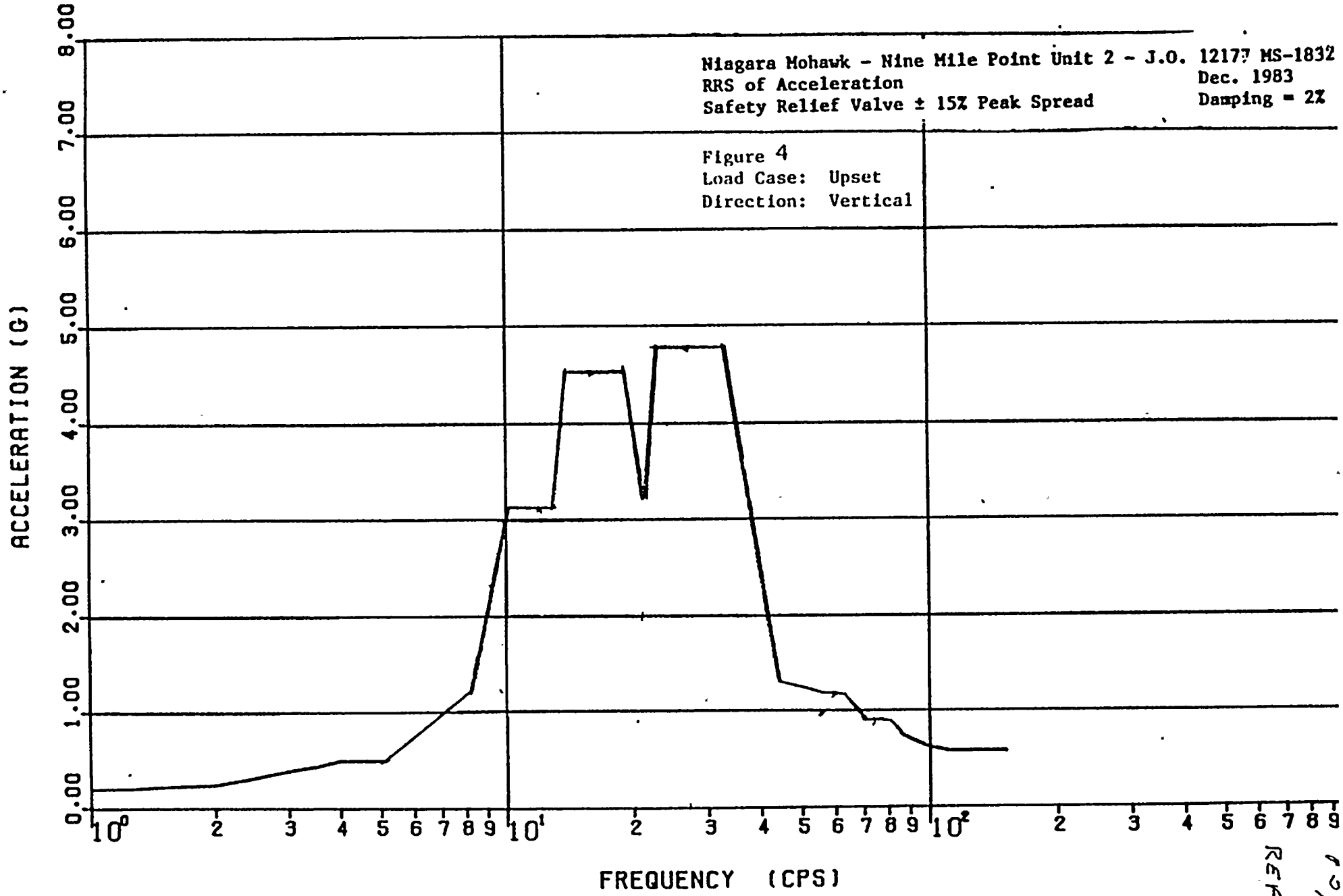

Niagara Mohawk - Nine Mile Point Unit 2 - J.O. 12177 MS-1732
RRS Of Accleration
Main Steam Isolation Valve
May 1983
Damping = 3%
FIGURE 13
LOCA
VERTICAL
ACCELERATION (G'S)
5.0
4.0
3.0
2.0
1.0
0
1
2
3
4
5
6
7
8
9
10
20
30
40
50
60
90
100
200

REF 644



REF 6.4B

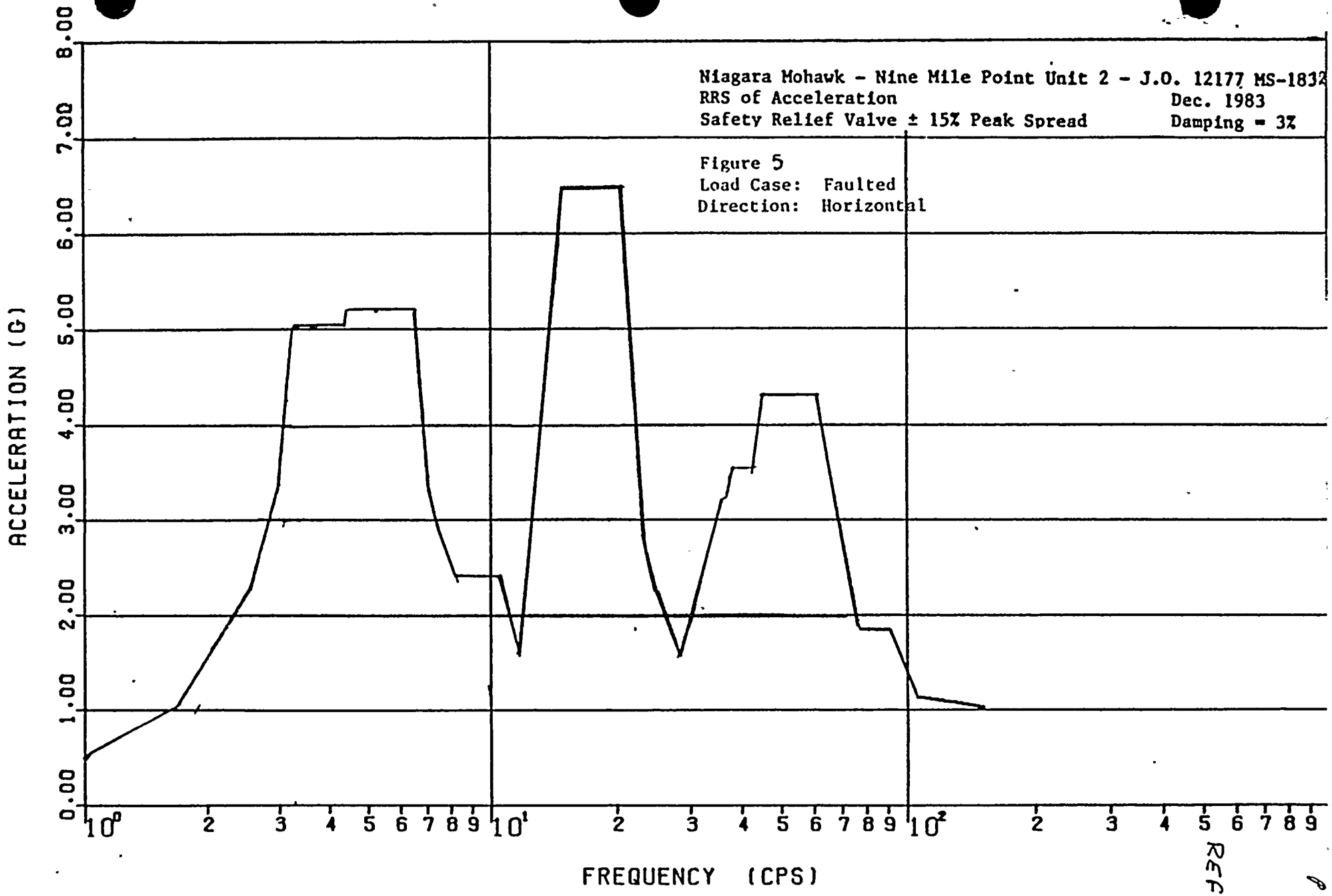
NINE MILE POINT 2



REF 648

1

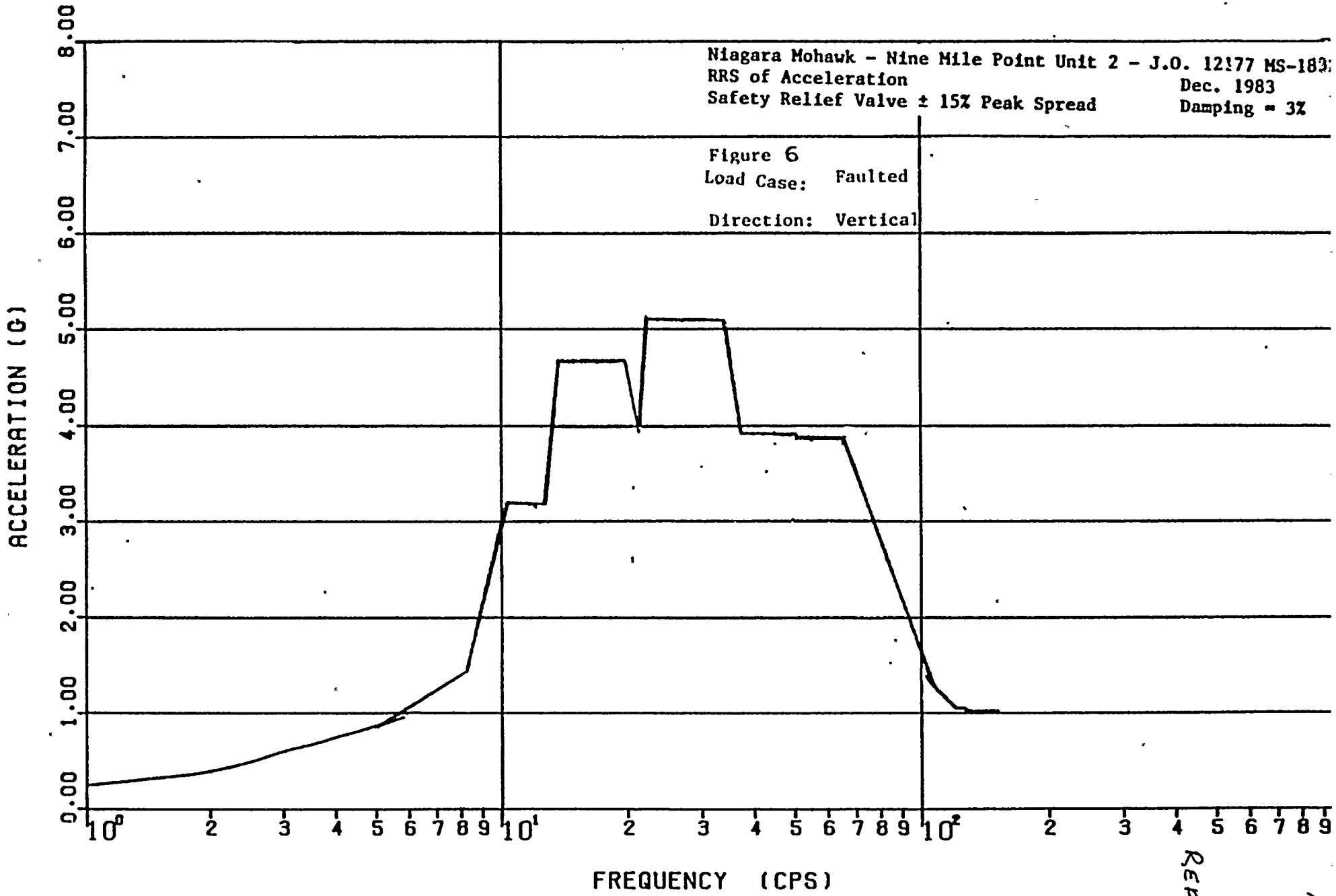
NINE MILE POINT 2



REF 648

6/9

NINE MILE POINT 2
NIYOOI DEC.1983



REF 64B

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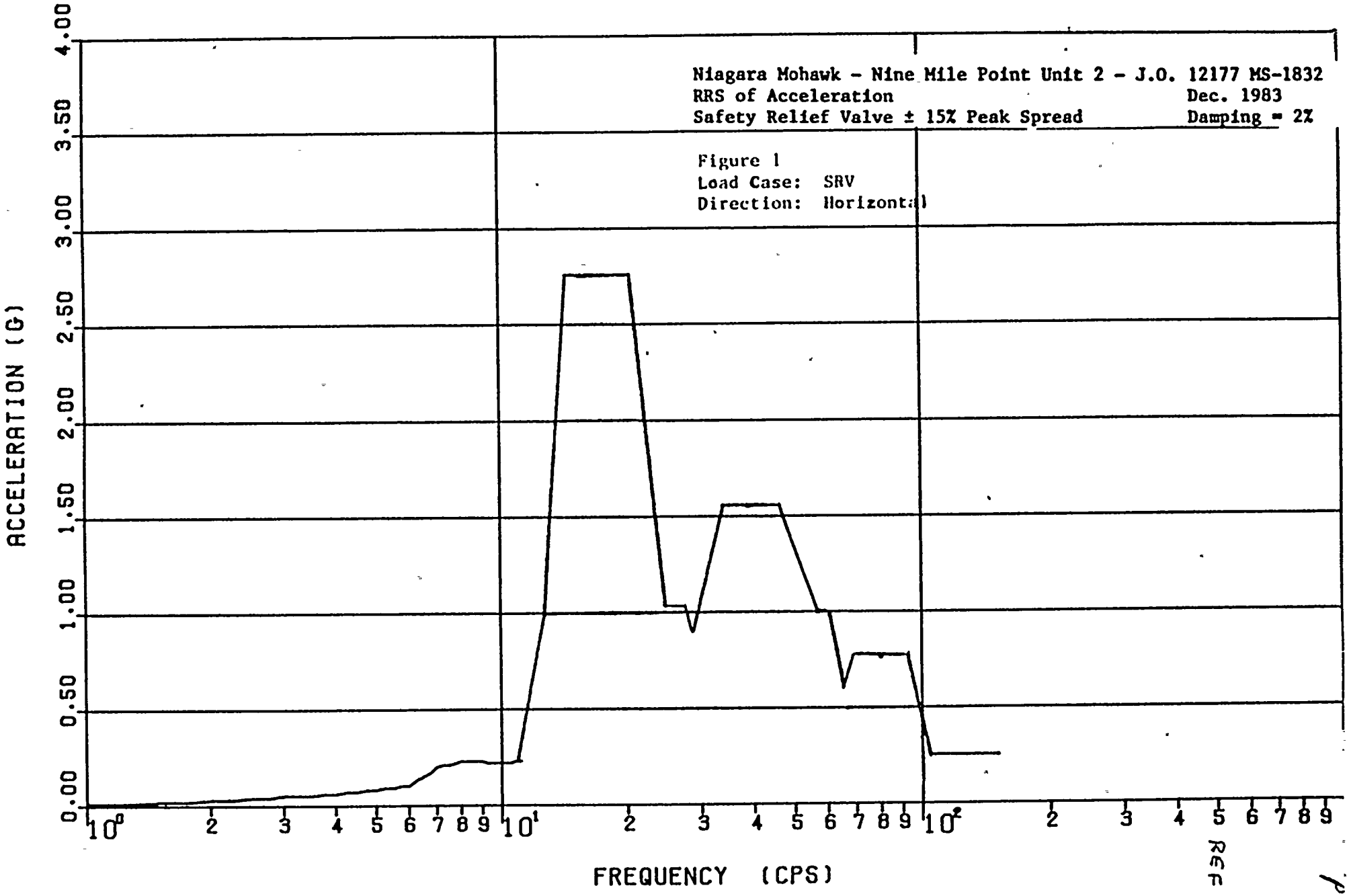
NINE MILE POINT 2

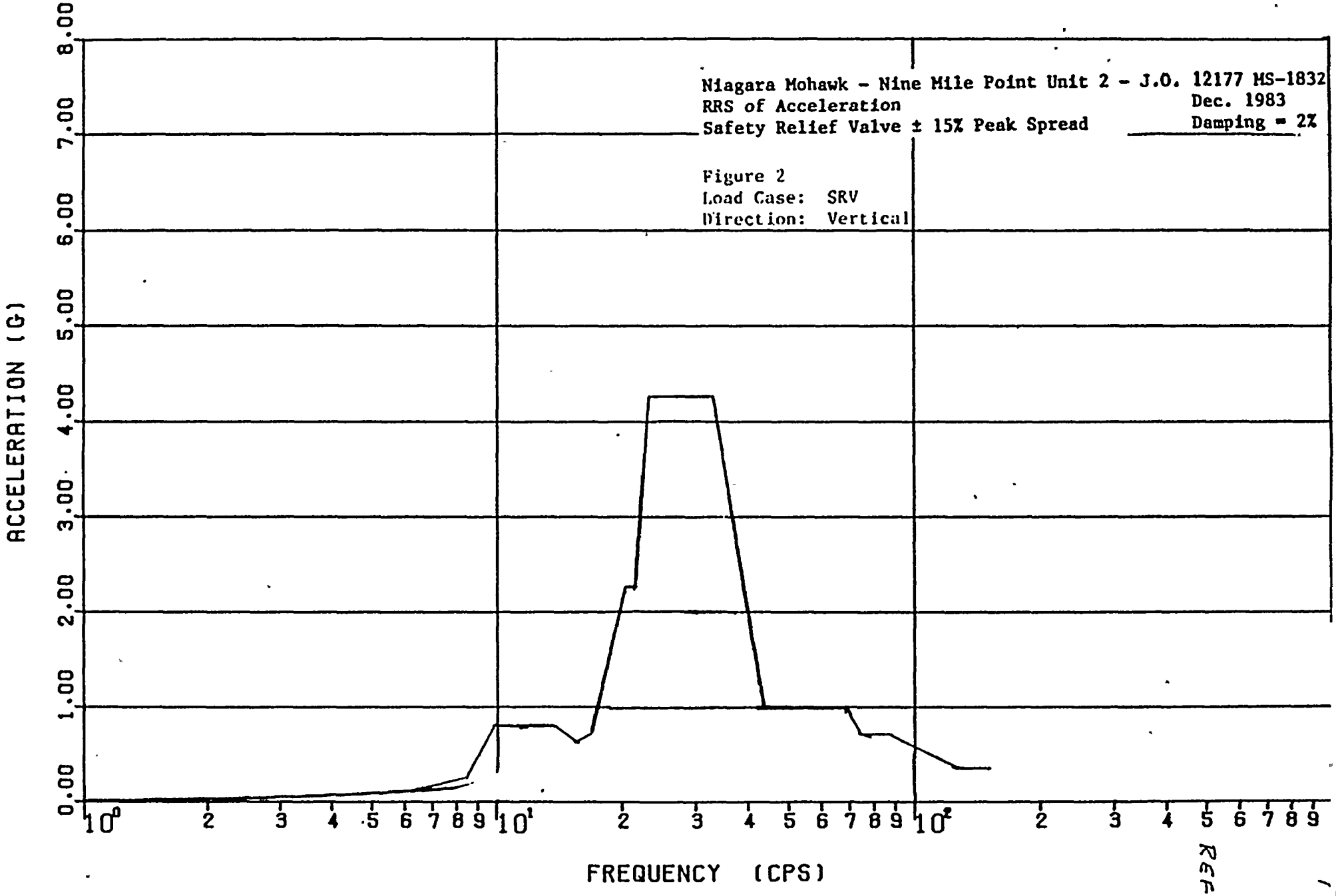


REF 6 4B

P 2/4

1

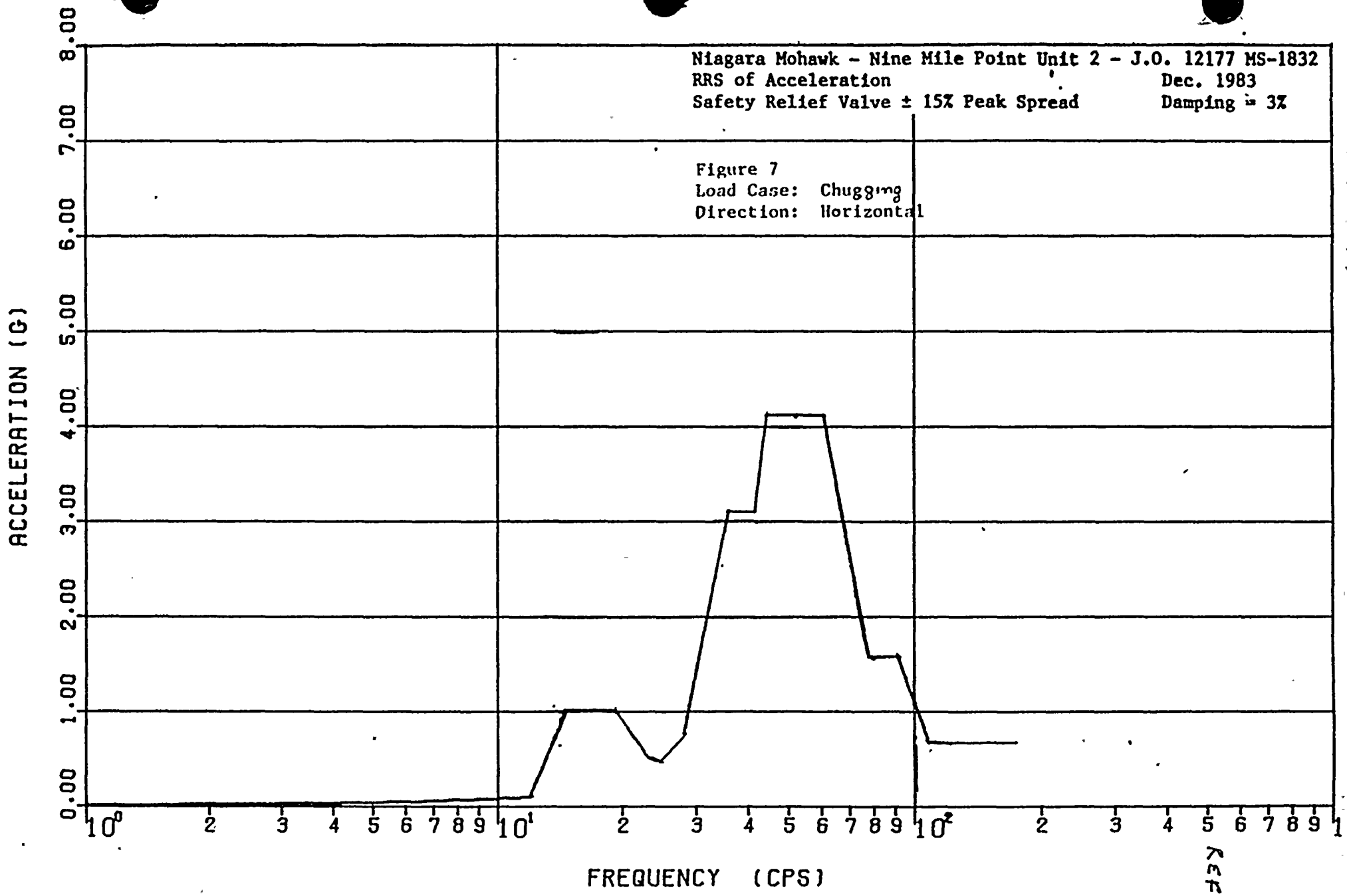
NINE MILE POINT 2



REF 648

1 of 4

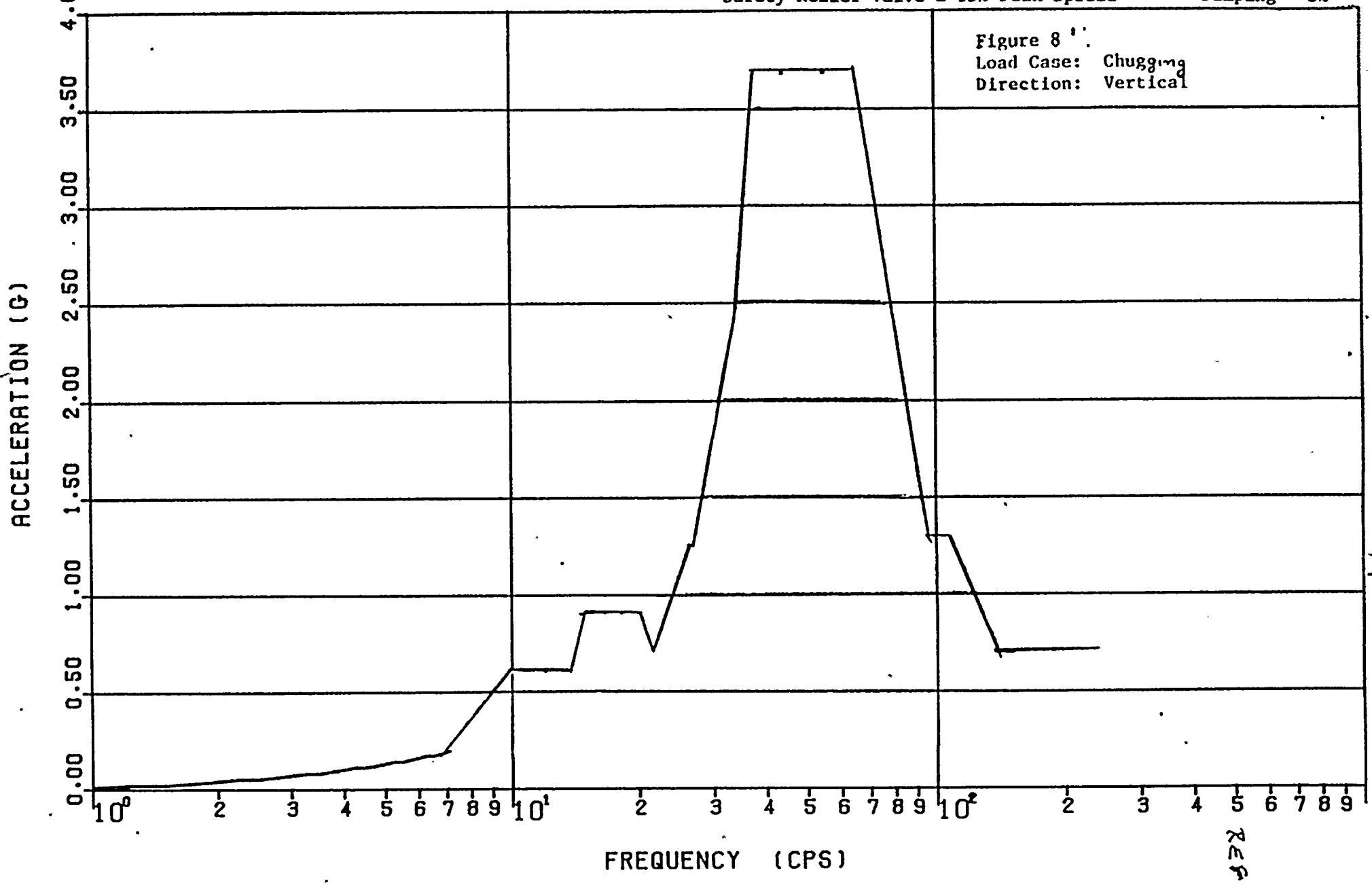
NINE MILE POINT 2



REF 648

NINE MILE POINT 2
NIYOOI DEC.1983

Niagara Mohawk - Nine Mile Point Unit 2 - J [illegible]77-MS1832
RRS of Acceleration [illegible]1983
Safety Relief Valve ± 15% Peak Spread Damping = 3%



REF 6AB

P 9/9

NINE MILE POINT 2
MIYOOI DEC.1983