

ILLINOIS POWER COMPANY



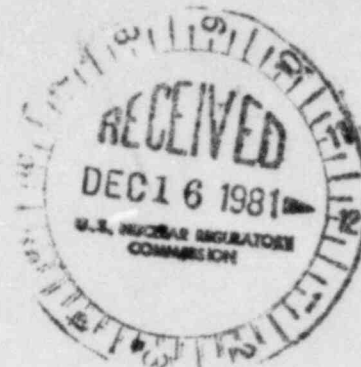
U-0346

L30-81(12-15)-6

500 SOUTH 27TH STREET, DECATUR, ILLINOIS 62525

December 15, 1981

Mr. James R. Miller, Chief
Standardization & Special Projects Branch
Division of Licensing
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555



Dear Mr. Miller:

Clinton Power Station Unit 1
Docket No. 50-461

Enclosed are copies of revised site specific response spectra. The original spectra was transmitted to the NRC as part of Enclosure 2 of IP letter U-0378, dated December 3, 1981. These revised spectra, prepared by Weston Geophysical for the Clinton Power Station, are for an earthquake of 5.8 magnitude. The original spectra, which were the slides used in the December 3, 1981 seismic presentation by Weston Geophysical to the NRC's Geosciences Branch, were slightly in error. A typographical mistake in the processing of the strong motion data excluded record I-152 in certain frequency ranges. Record I-152 has now been included in the development of the revised site specific spectra.

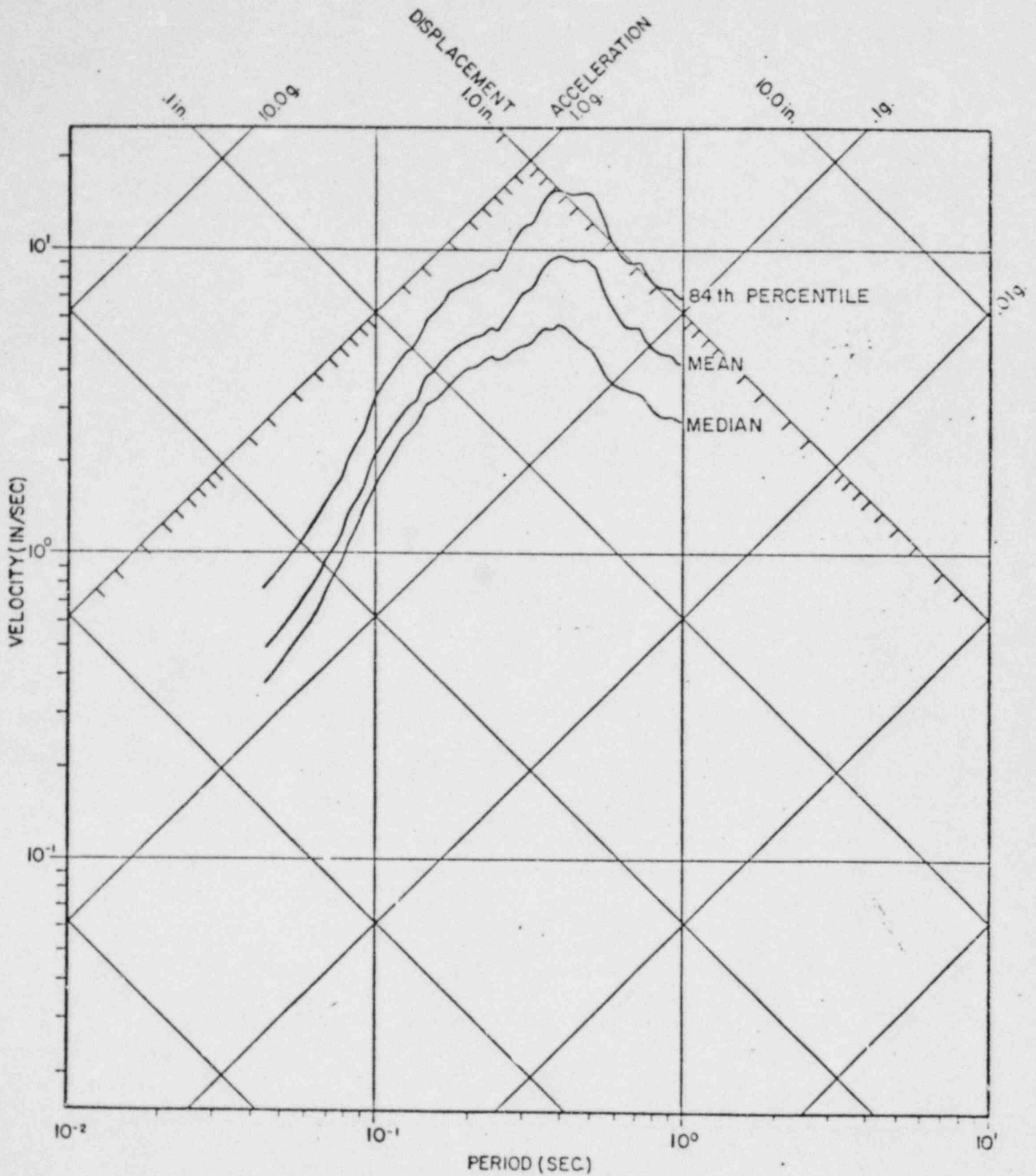
Sincerely,

G. E. Wuller
Supervisor-Licensing

GEW/em

cc: J. H. Williams, NRC Clinton Project Manager
H. H. Livermore, NRC Resident Inspector
R. Jackson, NRC Chief Geosciences Branch
G. Giese-Koch, NRC Geosciences Branch

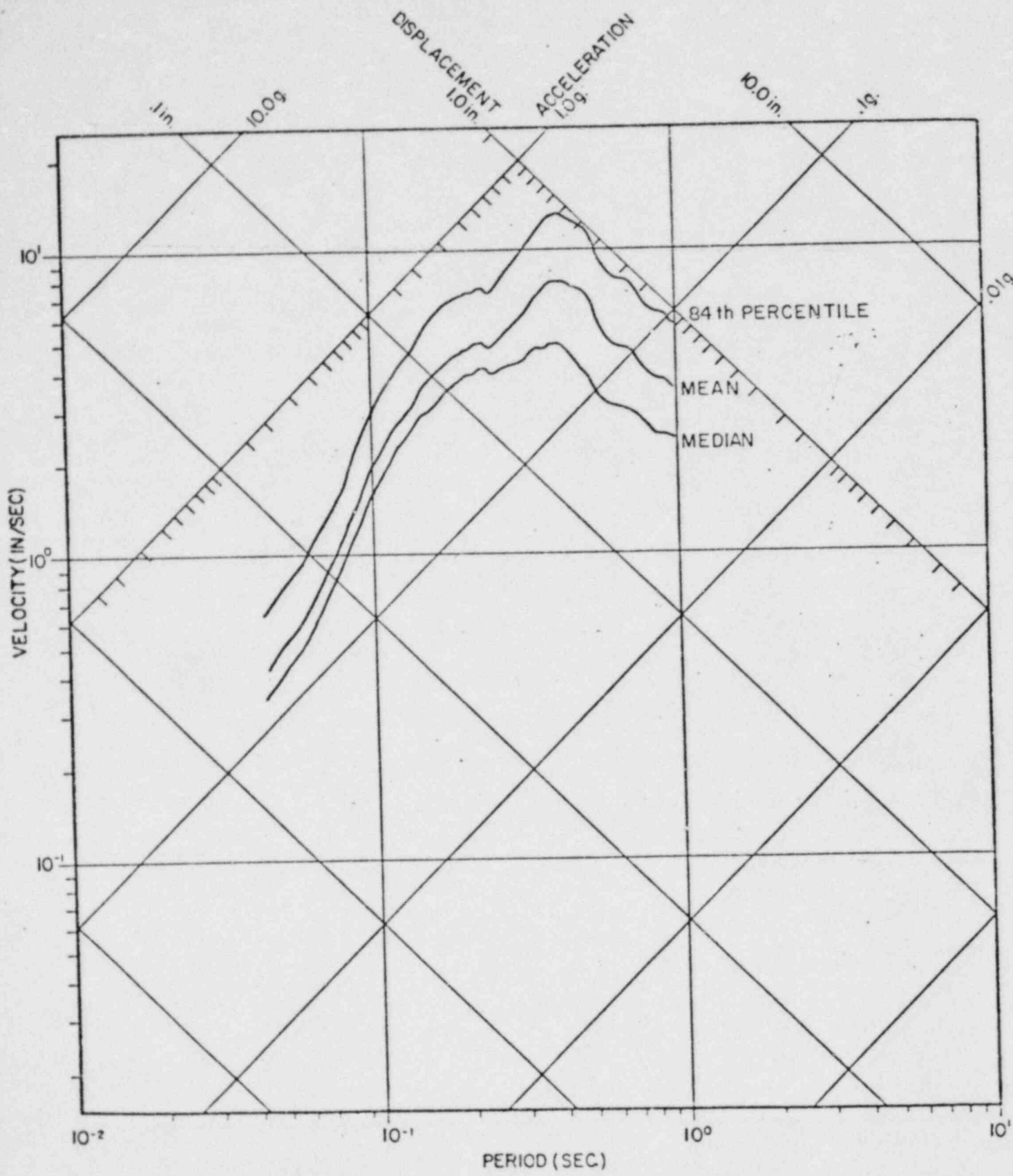
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S. 11*



SITE SPECIFIC RESPONSE SPECTRA FOR CLINTON POWER PLANT
 MEDIAN, MEAN AND 84TH PERCENTILE

(C - $M_L=5.4$ to 6.4 , Distance Restricted to
 25 km and less.)

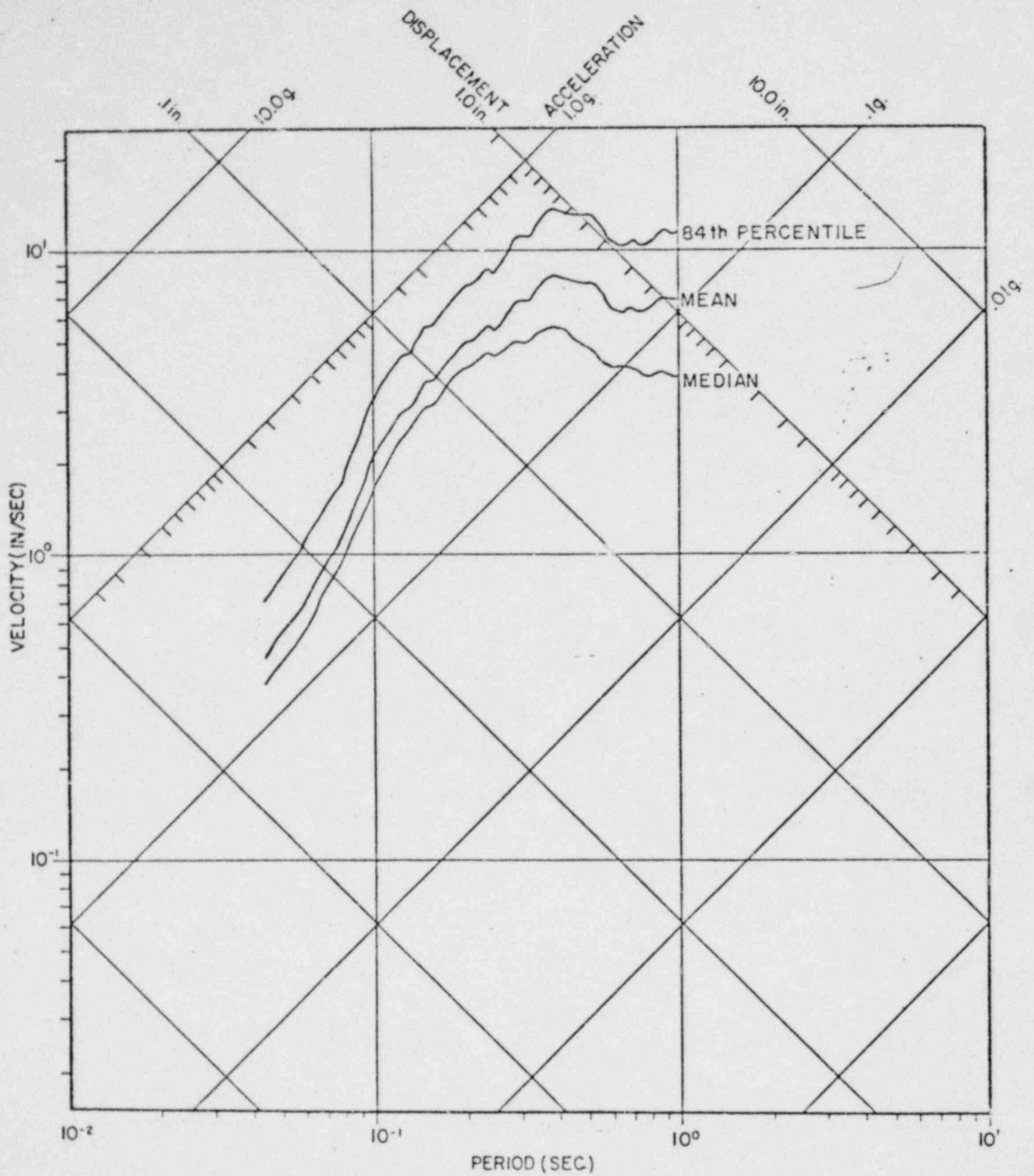
Handwritten: $M_L = 5.8$



SITE SPECIFIC RESPONSE SPECTRA FOR CLINTON POWER PLANT
 MEDIAN, MEAN AND 84TH PERCENTILE

(C' - M_L=5.4 to 6.4, Distance Restricted to
 25 km and less. Parkfield Excluded)

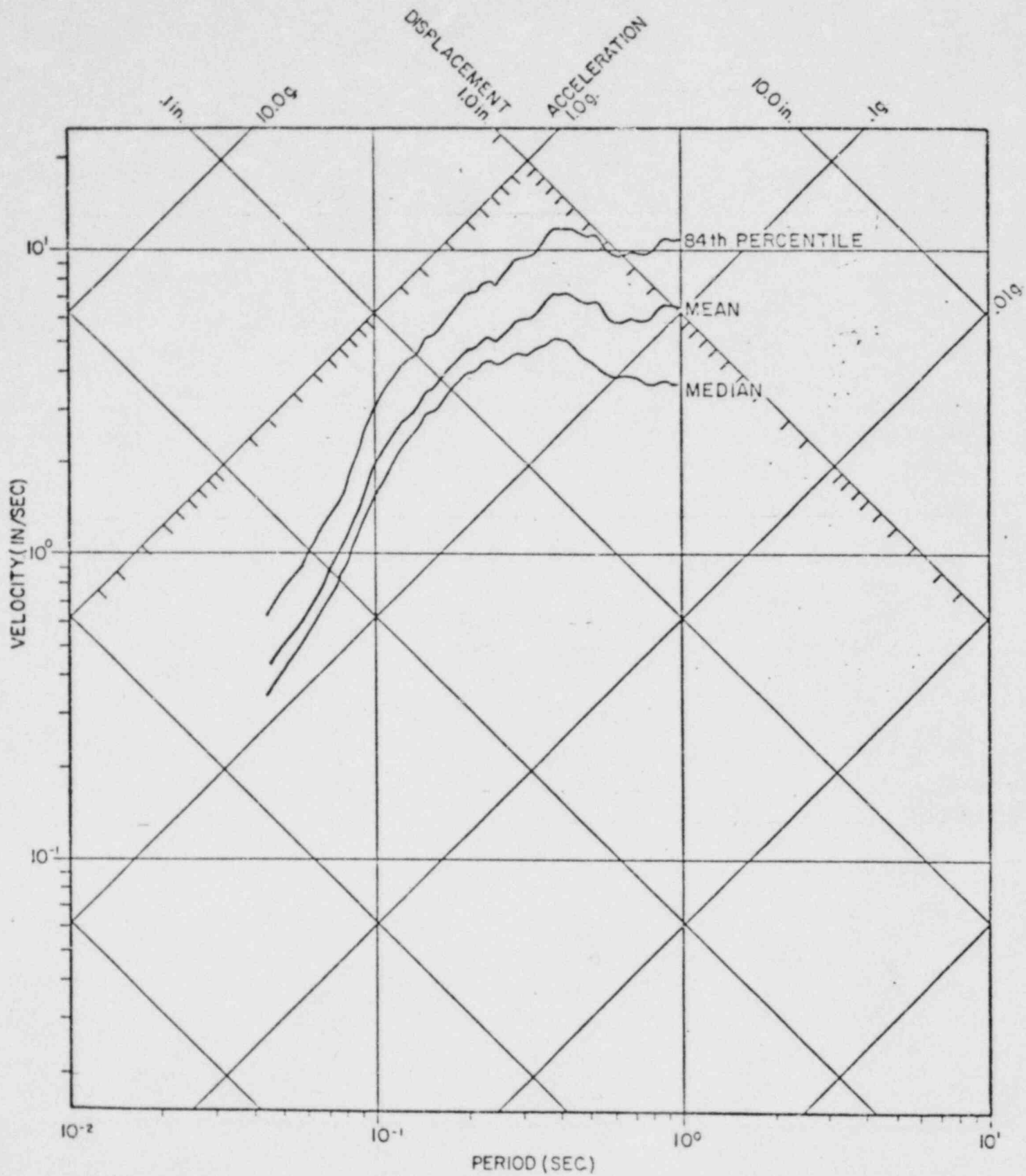
Handwritten: M_b = 5.5



SITE SPECIFIC RESPONSE SPECTRA FOR CLINTON POWER PLANT
 MEDIAN, MEAN AND 84TH PERCENTILE

($F - M_L = 5.4$ to 6.4 , Maximum Distance = 36.2 km.)

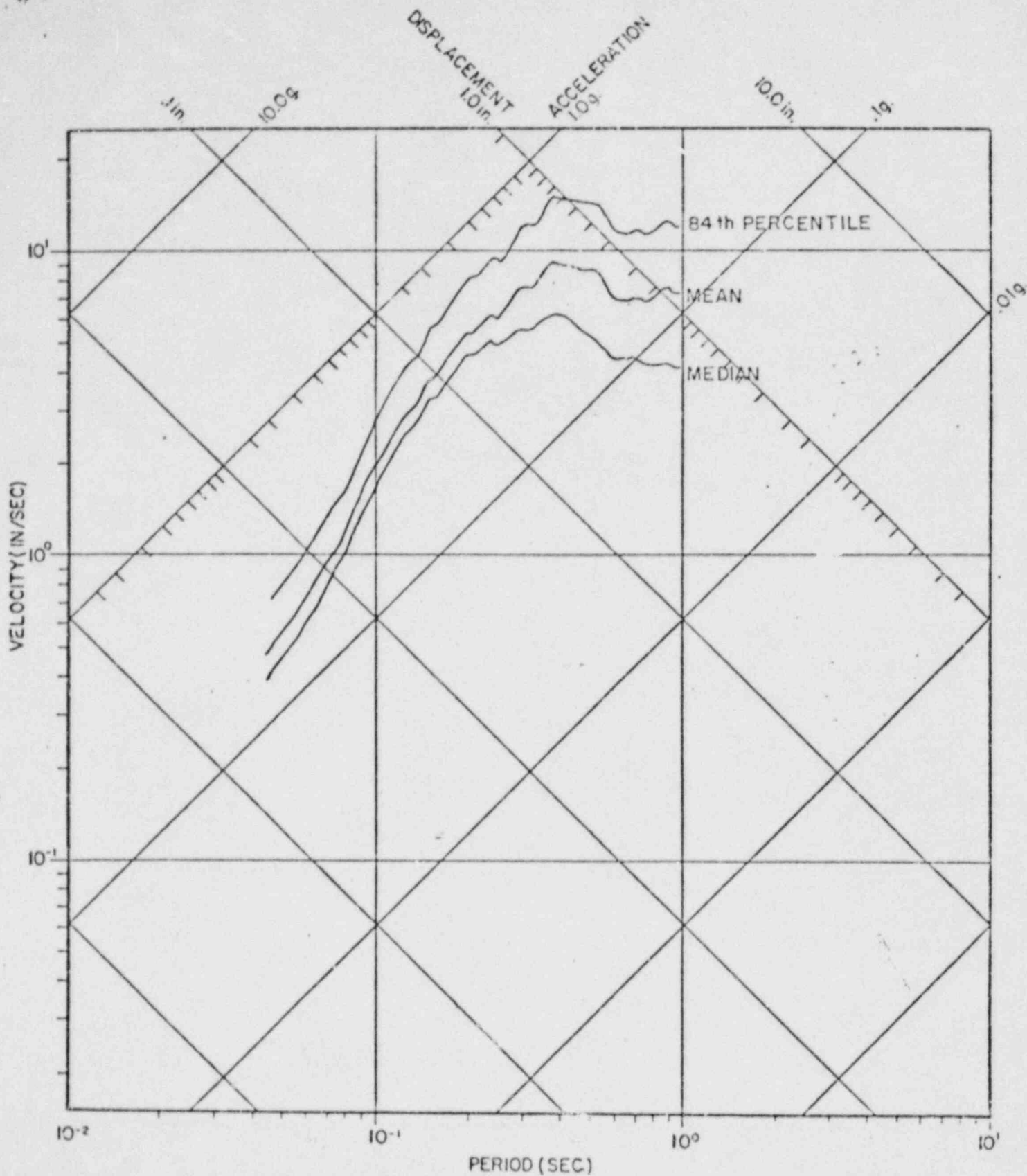
M₀ = 5.8



SITE SPECIFIC RESPONSE SPECTRA FOR CLINTON POWER PLANT
 MEDIAN, MEAN AND 84TH PERCENTILE

($F' - M_L = 5.4$ to 6.4 , Maximum Distance = 36.2 km.
 Parkfield Excluded)

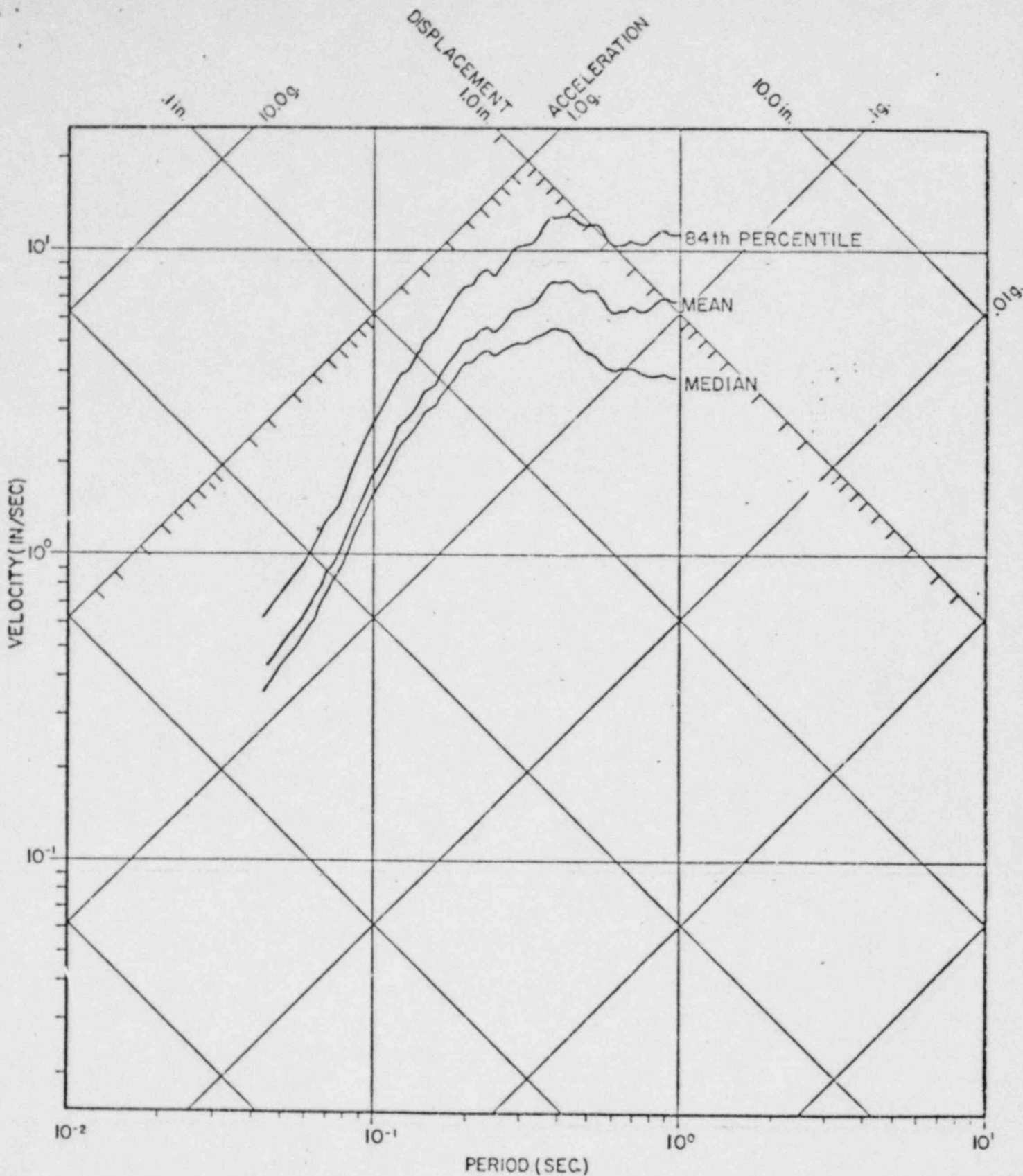
M₃ = 5.8



SITE SPECIFIC RESPONSE SPECTRA FOR CLINTON POWER PLANT
 MEDIAN, MEAN AND 84TH PERCENTILE

($G - M_L = 5.4$ to 6.4 , Maximum Distance = 25 km
 when closest approach distances used for for
 San Fernando Records.)

M₃ 25.8



SITE SPECIFIC RESPONSE SPECTRA FOR CLINTON POWER PLANT
 MEDIAN, MEAN AND 84TH PERCENTILE

(G' - M_L=5.4 to 6.4, Maximum Distance = 25 km
 when closest approach distances used for for
 San Fernando Records. Parkfield Excluded)

M_b 2518