

CALIFORNIA INSTITUTE OF TECHNOLOGY

EARTHQUAKE ENGINEERING RESEARCH LABORATORY

ANALYSES OF
STRONG MOTION EARTHQUAKE ACCELEROGRAMS

VOLUME III - RESPONSE SPECTRA
PART A - ACCELEROGRAMS IIA001 THROUGH IIA020

EERL 72-80

A REPORT ON RESEARCH CONDUCTED UNDER A
GRANT FROM THE NATIONAL SCIENCE FOUNDATION

PASADENA, CALIFORNIA

AUGUST 1972

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Abstract

This is the first volume of a series presenting earthquake response spectrum curves calculated from corrected ground accelerograms. An introduction summarizes response spectrum techniques in earthquake engineering as a background to the use of the data. For each earthquake accelerogram, two spectrum plots are given — relative velocity response versus period on a linear scale, and a tripartite log-log plot giving relative displacement, pseudo-velocity, and pseudo-acceleration spectra. The Fourier spectrum plot is also shown on the linear plot. Digital print-outs of ordinates of the plotted curves are tabulated for each earthquake. The earthquakes in part A match the uncorrected accelerogram data of volume I and the corrected accelerogram data of volume II.

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PREFACE

In 1969, the first volume of a series appeared which presented "uncorrected" digitized and plotted strong-motion earthquake accelerograph data. Since that time several additional volumes of such uncorrected data have been issued, and the project of supplying such basic information for all recorded earthquakes is well along towards completion.

In 1971, the first part of a second volume appeared which presented "corrected" digitized data, prepared so that the maximum information over the widest practicable frequency range would be available. These correction techniques involved both long-period filtering to ensure a uniform type of base-line adjustment, and instrument correction to account for the high-frequency response characteristics of the accelerograph transducer. Included in this volume are integrated ground velocity and displacement curves, which are being prepared for all available recorded earthquakes.

The present document is the initial part of a third volume, which will present calculated response spectrum curves for all recorded earthquakes using the corrected accelerogram data of Volume II. In order to clarify the nomenclature and methods used, and to indicate the purposes behind the presentations, a brief introduction to response spectrum techniques as they are commonly applied in the earthquake engineering field has been prepared.

A good deal of thought was devoted to the formats used to plot the response spectrum data. On one hand, it was decided to exhibit the spectrum curves in a form which could be directly compared with past plotted curves, since the characteristic shapes of such curves have often impressed on the mind of the investigator various significant facts about earthquake ground motion. On the other hand, newer developments in the subject have pointed

towards improved representations. It was also considered that various authors and publications have used widely varying nomenclatures and forms, and it is hoped that the representations adopted will establish a reasonable common ground in the field.

Attention should be specially drawn to the plots showing the relative velocity spectrum versus period on a linear scale. In order both to preserve the detail at the shorter periods, while permitting an extension to longer periods, it was thus desirable to use two different linear scales. This preserves the appearance and accuracy of the spectrum curves up to 3 seconds, while including new information up to a period of 15 seconds, which is believed to be justified by the accuracy of the basic measurements (Trifunac, 1970).

The present report launches the third phase of a data processing project which has been made possible by the long-range support of the National Science Foundation. As has been mentioned in previous reports, the cooperative efforts of many people have gone into these investigations, and more specific acknowledgments will be found in the referenced detailed reports which cover all aspects of the work.

We should like to express special gratitude to Dr. Mihailo D. Trifunac who, with the able assistance of Dr. A. Vijayaraghavan, has organized and carried through so successfully such an extensive program of data analysis and computation.

D. E. Hudson

Earthquake Engineering Research Laboratory,
California Institute of Technology

RESPONSE SPECTRA

Introduction

Dynamic response of a structure to strong earthquake ground motion may be investigated by two different methods. One of these methods consists of constructing a theoretical model of a structure and calculating the exact dynamic response for an assumed known motion of the foundation. This approach, although relatively time consuming and costly, has recently been used frequently for the final design of important structures such as tall buildings and nuclear power plants. The other, approximate, method of designing earthquake resistant structures is formulated in a manner which permits separation of the characteristics of particular structures from those of the earthquake, the latter being given by the "response spectra". This approach is currently used for the design of many earthquake resistant structures, and it is often the main tool for preliminary design, before the final design is examined and tested by the first method. In view of the importance of this design use of response spectra and since spectra contain valuable information about the characteristics of recorded strong earthquake ground motion, some basic facts about the use and calculation of such response spectra will be outlined in the following sections.

Since the introduction of the concept of the response spectrum into earthquake engineering by Benioff (1934) and Biot (1941) the technique has been refined and improved by a number of investigators (Alford et al., 1951; Housner et al., 1953; Hudson, 1956). The spectra have been used not only for design but also in studies of the wave amplification properties of the ground and as a guide in the introduction of dynamic considerations into earthquake-resistance code provisions.

Strong-motion accelerograms have been recorded infrequently in the past and the computation of spectra has been performed more or less on an individual basis appropriate for the record. In recent years, the number of strong-motion instruments deployed in the seismic regions of the world has significantly increased and it may be expected that in the next several decades the quantity and the quality of recorded accelerograms will grow accordingly.

The extensive program of standard accelerogram processing, presently undertaken by the Earthquake Engineering Research Laboratory of the California Institute of Technology, will produce shortly some 500 important accelerograms in digital form. (Hudson et al., 1969). These accelerograms have been recorded mainly in the western United States. The digitized accelerograms corrected for instrument response (Trifunac et al., 1971) and zero base-line (Trifunac, 1970; Hudson et al., 1971) represent accurately the absolute acceleration of instrument support in the frequency band between 0.07 and 25 cps. These accelerograms are here used for the standard computation of response spectra.

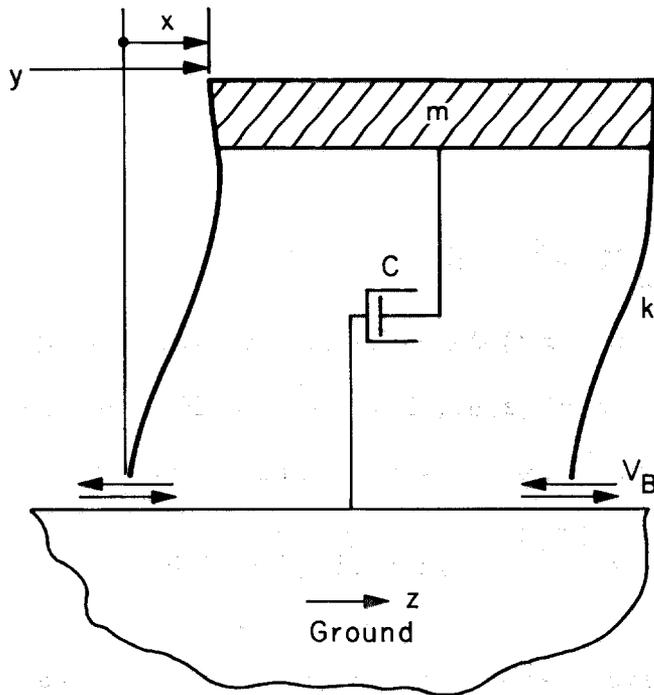
An Outline of the Earthquake Problem

1. Single-degree-of-freedom system. A single-degree-of-freedom system corresponding to a one story structure is schematically shown in Figure 1. For vibration $z(t)$ of the base of this structure the differential equation of motion may be written as

$$m\ddot{x} + c\dot{x} + kx = -m\ddot{z} \quad (1)$$

where x is the relative displacement between the structure and its base. Here $-m\ddot{z}$ represents the inertial force applied to the mass m , supported on two columns which have the equivalent spring constant k . Energy dissipation

SINGLE-DEGREE-OF-FREEDOM SYSTEM



- m = mass
- C = damping constant
- k = spring constant
- V_B = base shear
- x = relative motion of mass m
- y = absolute motion of mass m
- z = absolute motion of ground

Figure 1

in this model is assumed to be of viscous nature, i. e., the damping force is assumed to be proportional to the relative velocity between the mass and its foundation, and c is the damping constant.

The natural frequency ω_n and the fraction of critical damping ζ may be defined as follows

$$\omega_n^2 = \frac{k}{m} \quad (2)$$

and

$$\zeta = \frac{c}{2\sqrt{km}} \quad (3)$$

Equation (1) then becomes

$$\ddot{x} + 2\zeta\omega_n\dot{x} + \omega_n^2x = -\ddot{z} \quad (4)$$

For any general motion of the support $z(t)$ the relative displacement $x(t)$ can be computed from the Duhamel integral (e. g., Housner and Hudson 1959).

For zero initial conditions the expression for $x(t)$ then takes the form

$$x(t) = \frac{-1}{\omega_n \sqrt{1-\zeta^2}} \int_0^t \ddot{z}(\tau) e^{-\zeta\omega_n(t-\tau)} \sin \omega_n \sqrt{1-\zeta^2} (t-\tau) d\tau \quad (5)$$

From (5) it is seen that the relative response of the structure is characterized by its natural period $T_n = \frac{2\pi}{\omega_n}$, the fraction of critical damping ζ and the nature of the base motion, the latter being exhibited in the term $\ddot{z}(\tau)$ in the integral in Equation (5).

The relative displacement $x(t)$ is important for earthquake resistant design because the strains in the structure are directly proportional to the relative displacements. The total shear force V_B (Figure 1), for example, exerted by the columns on the ground is given by

$$V_B(t) = kx(t) \quad (6)$$

The exact relative velocity $\dot{x}(t)$ follows directly from (5)

$$\begin{aligned} \dot{x}(t) = & - \int_0^t \ddot{z}(\tau) e^{-\zeta \omega_n (t-\tau)} \cos \omega_n \sqrt{1-\zeta^2} (t-\tau) d\tau \\ & + \frac{\zeta}{\sqrt{1-\zeta^2}} \int_0^t \ddot{z}(\tau) e^{-\zeta \omega_n (t-\tau)} \sin \omega_n \sqrt{1-\zeta^2} (t-\tau) d\tau \end{aligned} \quad (7)$$

The absolute acceleration $\ddot{y}(t)$ of the mass m is obtained by further differentiation of $\dot{x}(t)$ and noting that $\ddot{y}(t) = \ddot{x}(t) + \ddot{z}(t)$. It is given by

$$\begin{aligned} \ddot{y}(t) = & \omega_n \frac{(1-2\zeta^2)}{\sqrt{1-\zeta^2}} \int_0^t \ddot{z}(\tau) e^{-\zeta \omega_n (t-\tau)} \sin \omega_n \sqrt{1-\zeta^2} (t-\tau) d\tau \\ & + 2\omega_n \zeta \int_0^t \ddot{z}(\tau) e^{-\zeta \omega_n (t-\tau)} \cos \omega_n \sqrt{1-\zeta^2} (t-\tau) d\tau \end{aligned} \quad (8)$$

The absolute acceleration \ddot{y} is important for experimental measurements since it is the quantity which is the most simple to measure during strong, earthquake induced vibrations. That is, an accelerograph located at that point records a close approximation to $\ddot{y}(t)$. The absolute acceleration also defines the seismic force on the mass m (Figure 1).

From the above discussions on Equations (6), (7) and (8), it may be concluded that of primary interest, for engineering applications, are the maximum absolute values of the quantities $x(t)$, $\dot{x}(t)$ and $\ddot{y}(t)$ experienced during the earthquake response. These quantities are commonly defined as follows

$$SD \equiv |x(t)|_{\max} \quad (9)$$

$$SV \equiv |\dot{x}(t)|_{\max} \quad (10)$$

$$SA \equiv |\ddot{y}(t)|_{\max} \quad (11)$$

Plots of SD, SV and SA versus the undamped natural period of vibration $T_n = \frac{2\pi}{\omega_n}$, for various fractions of critical damping ζ , are called earthquake response spectra. A plot of the SV spectrum, for five damping values 0, 2, 5, 10 and 20 percent of critical, is shown in Figure 2.

In typical engineering structures the fraction of critical damping ζ is small. It is approximately 2-8% for buildings and 5-10% for soil structures. Therefore, $\sqrt{1-\zeta^2} \approx 1$ and the terms of order ζ and higher in Equations (7) and (8) may be neglected. Furthermore, if the cosine term is replaced by a sine term in Equation (7), the following approximate relationships exist between the spectral quantities defined in (9), (10) and (11).

$$SD \approx \frac{T}{2\pi} SV \quad (12)$$

and

$$SA \approx \frac{2\pi}{T} SV \quad (13)$$

For earthquake-like excitations these approximations can be made plausible (Hudson, 1962). For engineering applications it is convenient to use the following approximations

$$PSV = \frac{2\pi}{T} SD \quad (14)$$

and

$$PSA = \left(\frac{2\pi}{T}\right)^2 SD \quad (15)$$

because SD, PSV and PSA can be conveniently plotted on the common tripartite logarithmic plot versus period (Figure 3). In engineering literature PSV and PSA are frequently referred to as "pseudo velocity" and "pseudo absolute acceleration".

RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL VALLEY EARTHQUAKE MAY 18, 1940 - 2037 PST
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

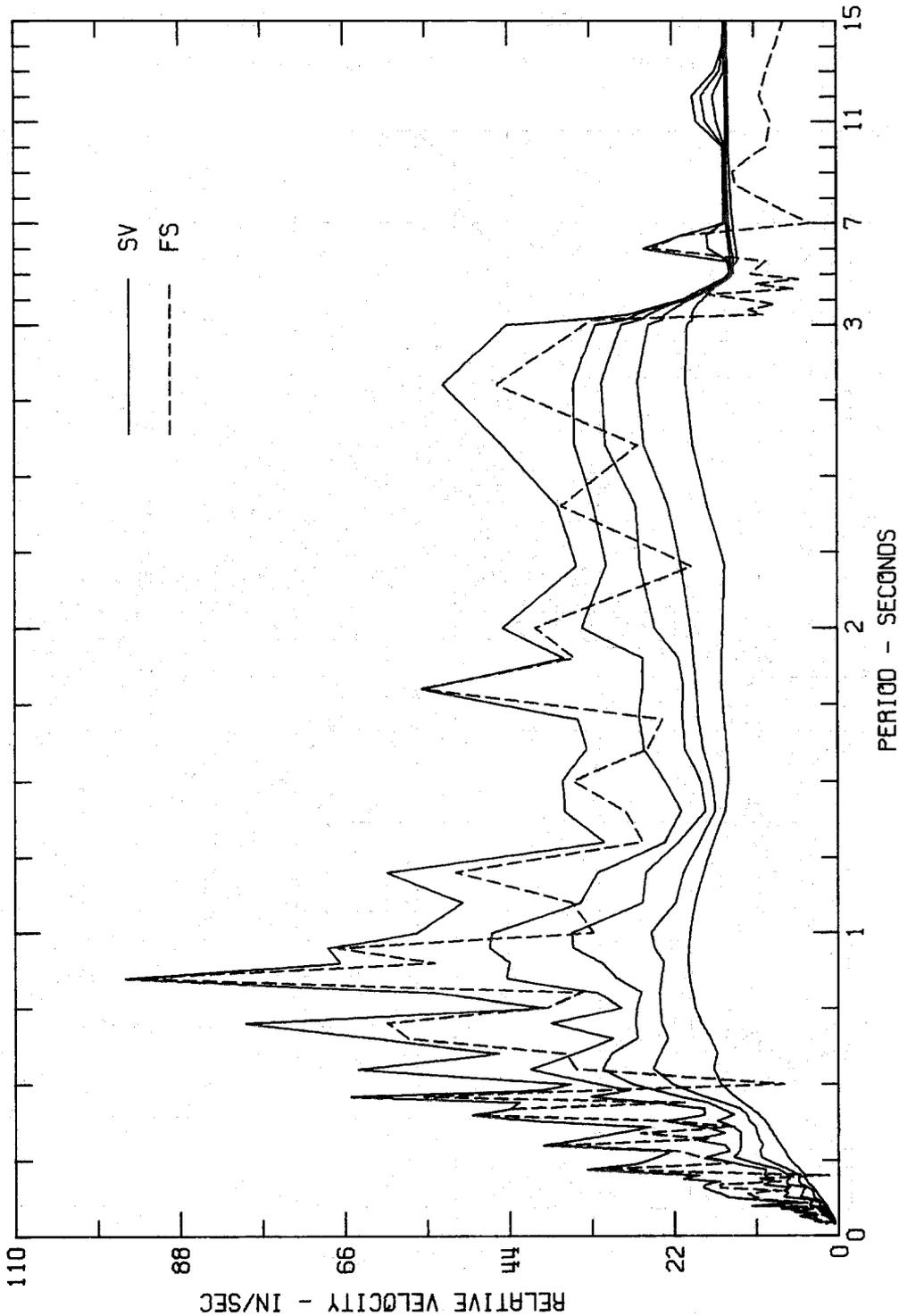


Figure 2

RESPONSE SPECTRUM

IMPERIAL VALLEY EARTHQUAKE MAY 18, 1940 - 2037 PST

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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

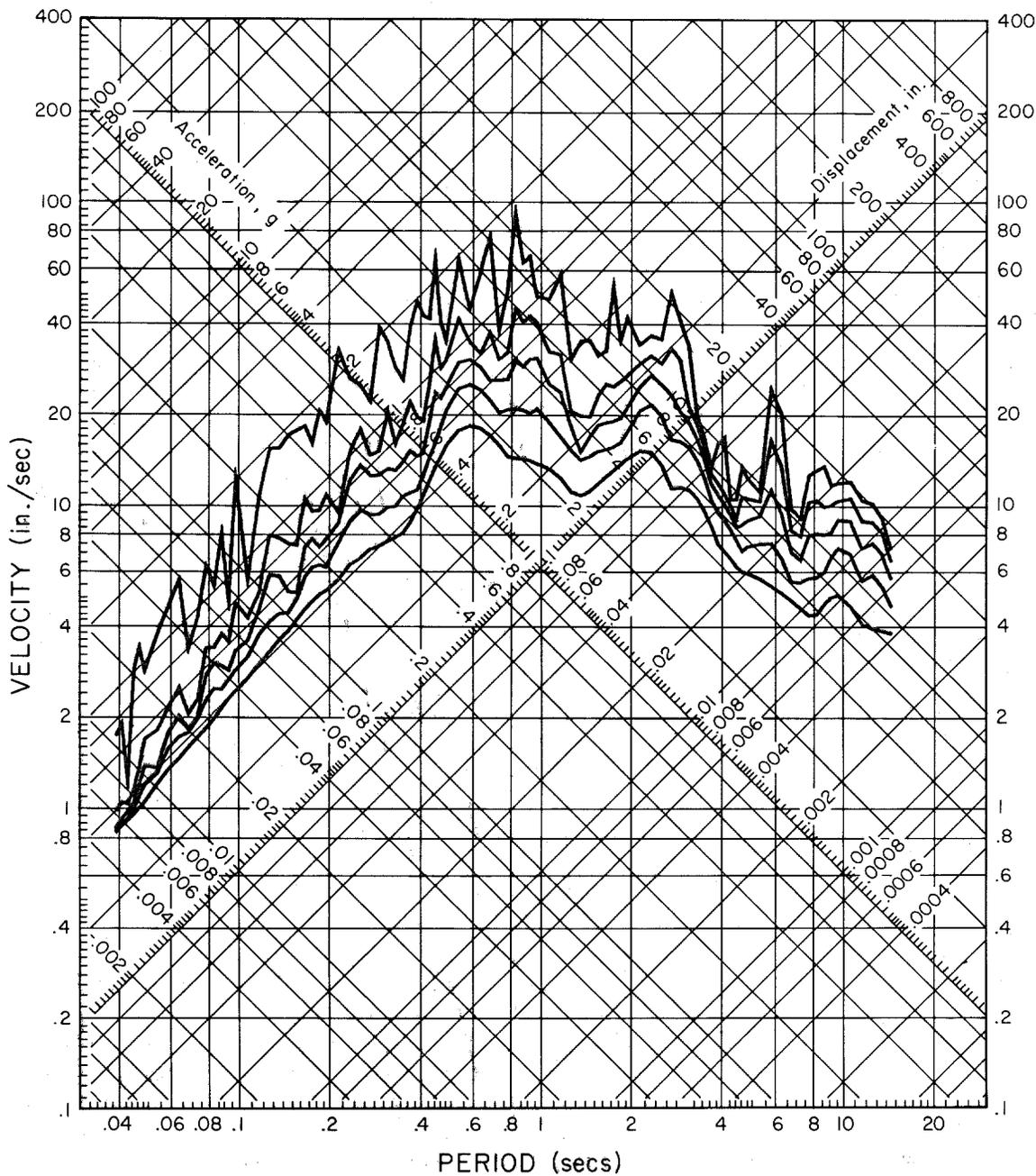


Figure 3

2. Fourier Spectra and Response Spectra. The Fourier spectrum of an input acceleration shows the significant frequency characteristics of recorded motion. For an accelerogram differing from zero in the time interval $0 < \tau < T$ the Fourier spectrum is defined as

$$F(\omega) = \int_0^T \ddot{z}(\tau) e^{-i\omega\tau} d\tau \quad (16)$$

The Fourier amplitude spectrum is then given by the square root of the sum of the squares of the real and imaginary parts of $F(\omega)$

$$FS = |F(\omega)| = \left\{ \left[\int_0^T \ddot{z}(\tau) \cos \omega\tau d\tau \right]^2 + \left[\int_0^T \ddot{z}(\tau) \sin \omega\tau d\tau \right]^2 \right\}^{1/2} \quad (17)$$

For an undamped oscillator there is a close relationship between the Fourier amplitude spectrum and the exact relative velocity response spectrum (Kawasumi, 1956; Rubin, 1961; Hudson, 1962). For $\zeta=0$, Equation (7) reduces to (dropping the subscript n on ω_n)

$$\dot{x}(t) = - \int_0^t \ddot{z}(\tau) \cos \omega(t-\tau) d\tau.$$

Expanding, (18)

$$\dot{x}(t) = -\cos \omega t \int_0^t \ddot{z}(\tau) \cos \omega\tau d\tau - \sin \omega t \int_0^t \ddot{z}(\tau) \sin \omega\tau d\tau.$$

From definition (10) and from (18) it follows that

$$SV = \left\{ \left[\int_0^{t_{\max}} \ddot{z}(\tau) \cos \omega\tau d\tau \right]^2 + \left[\int_0^{t_{\max}} \ddot{z}(\tau) \sin \omega\tau d\tau \right]^2 \right\}^{1/2} \quad (19)$$

where $0 \leq t_{\max} \leq T$ and t_{\max} is the time at which the maximum response occurs.

Equations (17) and (19) show the similarity between the Fourier amplitude spectrum and the exact relative velocity spectrum. In the

special case when the time t_{\max} coincides with the total duration of the earthquake T the two spectra SV and FS become identical. In general, however, for $0 \leq t_{\max} < T$, and $\zeta=0$, SV is always greater than FS . In physical terms, FS is the maximum velocity of the undamped oscillator in the free vibration following the earthquake, whereas SV is the maximum velocity during both the earthquake and the subsequent free vibrations. This is illustrated in Figure 2 where FS is plotted with a dashed line.

The Fourier amplitude spectrum FS is the quantity most frequently studied by seismologists in their investigations of the earthquake mechanism as it relates to the amplitudes of recorded waves. Similarly, the relative velocity spectrum SV characterizes the earthquake ground motion in terms of its influence on engineering structures. The above relation between SV and FS links the two measurements of the same physical phenomenon from different points of view.

3. Multi-Degree-of-Freedom Systems. A typical multi-degree-of-freedom system often used to study vibrations of tall buildings or similar structures is shown in Figure 4. In this particular model, masses m_i are lumped at the floor levels and are interconnected with massless columns which have the equivalent spring constants k_i . Dashpots characterized by the damping constants c_i model the energy dissipation in this system. The shear force at each floor level is designated by V_i and V_n corresponds to the base shear acting between the structure and the soil.

The system of equilibrium equations, one of which corresponds to each mass m_i , can be written in a compact matrix form as follows.

$$[m]\{\ddot{x}\} + [c]\{\dot{x}\} + [k]\{x\} = -\ddot{z}[m]\{I\} \quad (20)$$

Here $[\cdot]$ designates a square $n \times n$ matrix while $\{\cdot\}$ represents a column

MULTI-DEGREE - OF - FREEDOM SYSTEM

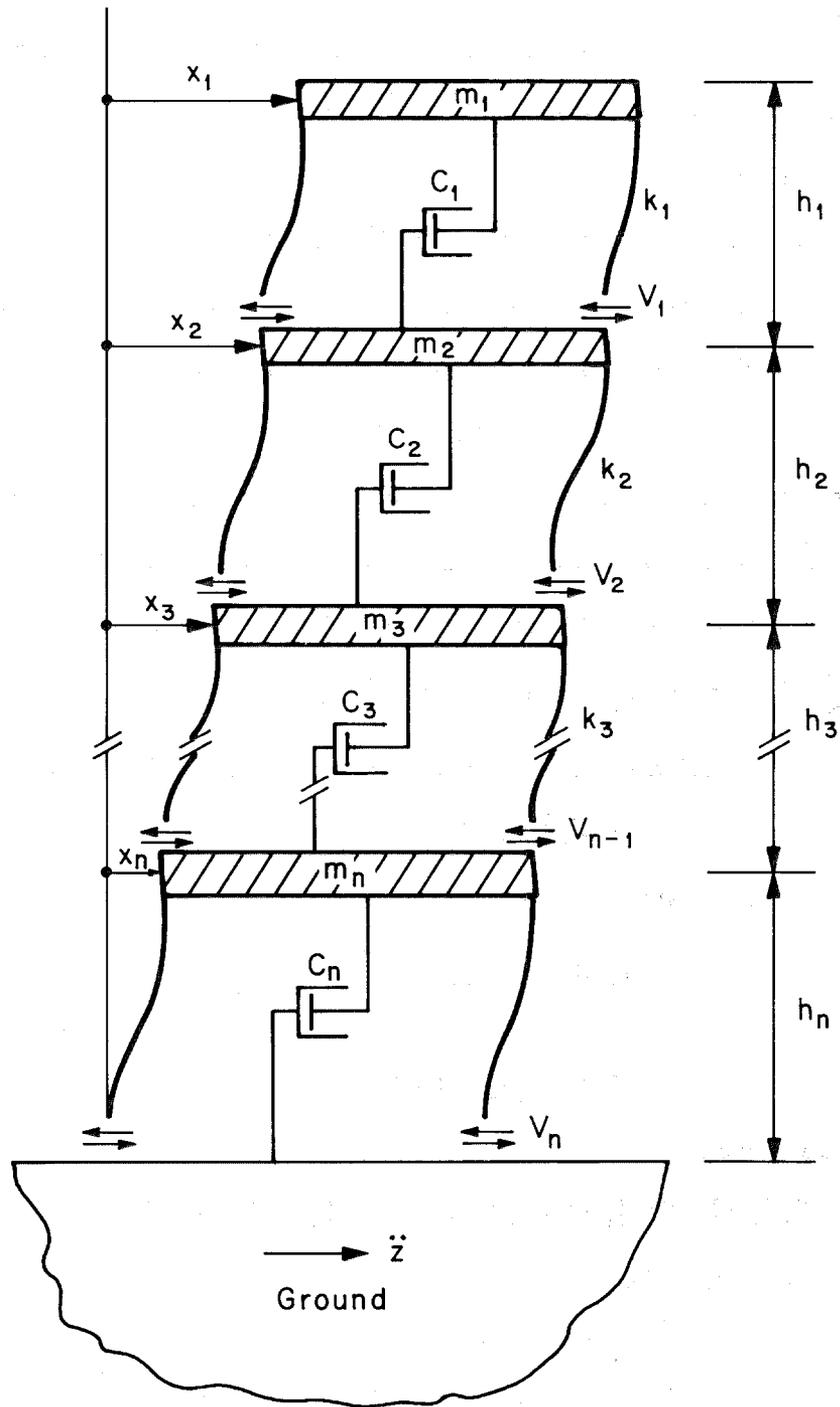


Figure 4

vector with n components. In general the mass matrix [m], the damping matrix [c] and the stiffness matrix [k] may have all elements different from zero. For most structural models, however, like the one shown in Figure 4 these matrices have only the diagonal and few off-diagonal terms that differ from zero.

In the special case when the damping matrix [c] is a linear combination of the mass matrix and the stiffness matrix, a set of uncoupled coordinates {ξ} and the corresponding transformation

$$\{x\} = [A]\{\xi\} \quad (21)$$

can be found such that the classical normal mode solution is possible (Rayleigh, 1945; Caughey, 1959). Then, by substituting (21) into (20) and premultiplying (20) by the transpose of [A] there follows

$$[A]^T[m][A]\{\ddot{\xi}\} + [A]^T[c][A]\{\dot{\xi}\} + [A]^T[k][A]\{\xi\} = -\ddot{z}[A]^T[m]\{I\} \quad (22)$$

It is possible to normalize the coefficients of {ξ̈} and {ξ} such that

$$[A]^T[m][A] = [I] \quad (23)$$

where [I] is the unit matrix, and

$$[A]^T[k][A] = [\omega^2]. \quad (24)$$

Denoting

$$[C] \equiv [A]^T[c][A] \quad (25)$$

Equation (22) becomes

$$[I]\{\ddot{\xi}\} + [C]\{\dot{\xi}\} + [\omega^2]\{\xi\} = -\ddot{z}[A]^T[m]\{I\} \quad (26)$$

If [C] is a diagonal matrix,

$$[C] = \begin{bmatrix} 2\zeta_1\omega_1 & 0 & 0 & \dots & 0 \\ 0 & 2\zeta_2\omega_2 & 0 & \dots & \vdots \\ 0 & 0 & \ddots & \ddots & \vdots \\ \vdots & \vdots & \ddots & \ddots & \vdots \\ 0 & 0 & \dots & \dots & 2\zeta_n\omega_n \end{bmatrix} \quad (27)$$

then Eq. (26) represents a set of n independent equations each describing a single-degree-of-freedom system response in terms of a normal coordinate ξ_i

$$\ddot{\xi}_i + 2\zeta_i\omega_i\dot{\xi}_i + \omega_i^2\xi_i = -\ddot{z}\alpha_i \quad (28)$$

where the constant

$$\alpha_i = \frac{\{A^i\}^T [m]\{I\}}{\{A^i\}^T [m]\{A^i\}}; \quad i = 1, 2, 3, \dots, n \quad (29)$$

is called the mode participation factor. It shows the extent to which the i^{th} mode is excited by the earthquake.

As may be seen the i^{th} equation (28) is the same as Equation (5) for a single-degree-of-freedom oscillator. Its solution therefore becomes

$$\xi_i(t) = \frac{-\alpha_i}{\omega_i\sqrt{1-\zeta_i^2}} \int_0^t \ddot{z}(\tau) e^{-\zeta_i\omega_i(t-\tau)} \sin\omega_i\sqrt{1-\zeta_i^2}(t-\tau) d\tau \quad (30)$$

After solving (3) for all i the actual displacements $\{x\}$ can be calculated from

$$\{x(t)\} = [A]\{\xi(t)\} \quad (31)$$

When the displacements $\{x(t)\}$ of masses are determined the earthquake forces $F_i(t)$ acting on each mass m_i are given by

$$\{F(t)\} = [k]\{x(t)\} \quad (32)$$

The shear forces V_i (see Figure 4) are then

$$\{V(t)\} = [S][k]\{x(t)\} \quad (33)$$

where $[S]$ is the lower triangular matrix

$$[S] = \begin{bmatrix} 1 & 0 & 0 & \dots & 0 \\ 1 & 1 & 0 & \dots & 0 \\ 1 & 1 & 1 & \dots & \cdot \\ \vdots & \vdots & \vdots & \ddots & \vdots \\ 1 & 1 & 1 & \dots & 1 \end{bmatrix} \quad (34)$$

Similarly the moments at each level of the structure (Figure 4) are

$$\{M(t)\} = [H][S][k]\{x(t)\} \quad (35)$$

where $[H]$ is the lower triangular matrix

$$[H] = \begin{bmatrix} h_1 & 0 & 0 & \dots & 0 \\ h_1 & h_2 & 0 & \dots & 0 \\ h_1 & h_2 & h_3 & \dots & \cdot \\ \vdots & \vdots & \vdots & \ddots & \vdots \\ h_1 & h_2 & h_3 & \dots & h_{n-1} & h_n \end{bmatrix} \quad (36)$$

The ultimate objective of this analysis, from the engineering point of view, is to calculate the envelope of maximum response $\{x\}_{\max}$, forces $\{F\}_{\max}$, shears $\{V\}_{\max}$ and moments $\{M\}_{\max}$ which are to be used for design purposes. Here $\{.\}_{\max}$ defines the following operation

$$\{g\}_{\max} \equiv \begin{Bmatrix} g_{1 \max} \\ g_{2 \max} \\ \vdots \\ g_{n \max} \end{Bmatrix} \quad (37)$$

It may be noted that the maximum response vector $\{x\}_{\max}$, for example, does not define the response condition at any one time but the maximum response, experienced by the different levels of structure, during the entire time-history of the analysis.

4. Continuous Systems. For many continuous structures that vibrate predominantly in shear the equation of motion can be written in the form

$$m(x) \frac{\partial^2 v}{\partial t^2} + c(x, v, t) + k(x, v, t) = -m(x) \ddot{z}(t) \quad (38)$$

where v is the displacement, $m(x)$ is the mass, c and k are generalized

damping and spring forces depending on x , v and t , and x is the interval $0 \leq x \leq l$.

If the response of such a structure to earthquake motion $\ddot{z}(t)$ may be written as a sum of modal responses

$$v(x, t) = \sum_{j=1}^{\infty} y_j(t) \varphi_j(x) \quad (39)$$

where $\varphi_j(x)$ is the j^{th} mode, then the normal coordinates are governed by the following equations

$$\ddot{y}_j + 2\zeta_j \omega_j \dot{y}_j + \omega_j^2 y_j = -\alpha_j \ddot{z}(t); \quad j = 1, 2, \dots \quad (40)$$

where

$$\alpha_j = \frac{\int_0^l m(x) \varphi_j(x) dx}{\int_0^l m(x) \varphi_j^2(x) dx} \quad (41)$$

It may be noted that Equation (41) corresponds to (29) of the previous section. Again α_j is called the mode participation factor, now corresponding to a continuous system.

Equations analogous to (24) and (25) now become

$$\omega_j^2 y_j = \frac{\int_V \varphi_j(x) k(x, v, t) dx}{\int_V \varphi_j^2(x) m(x) dx} \quad (42)$$

$$2\omega_j \zeta_j \dot{y}_j = \frac{\int_V \varphi_j(x) C(x, v, t) dx}{\int_V \varphi_j^2(x) m(x) dx} \quad (43)$$

where V represents the volume of the structure. Similar representations could be derived for more complex linear structures.

5. Response Spectrum Superposition. In the preceding sections it was demonstrated that for multi-degree-of-freedom, or continuous systems, the dynamic response of the r^{th} mode alone may be described by the equation which corresponds to a single-degree-of-freedom system (see Equations (4), (28) and (40)), and that the total displacement response may be computed by adding contributions of each individual mode (Equations (31) and (39)). For example, the contribution of the r^{th} mode to the total displacement of a multi-degree-of-freedom system would be

$$\{x^{(r)}(t)\} = \frac{\{A^{(r)}\} \alpha_r}{\omega_r \sqrt{1 - \zeta_r^2}} \int_0^t \ddot{z}(\tau) e^{-\zeta_r \omega_r (t - \tau)} \sin \omega_r \sqrt{1 - \zeta_r^2} (t - \tau) d\tau \quad (44)$$

This contribution is seen to be directly proportional to $1/\omega_r \sqrt{1 - \zeta_r^2}$ times the integral term and will depend on the integral's maximum absolute value.

The latter was already defined in Equation (5) and its absolute value SD was given by Equation (9). Thus, in terms of displacement and velocity spectra (Equations (9) through (15)) Equation (44) can be written as follows

$$\{ |x^{(r)}(t)| \}_{\max} = \{ |A^{(r)}| \} \alpha_r SD^{(r)} = \{ |A^{(r)}| \} \alpha_r \frac{T_r}{2\pi} SV^{(r)} \quad (45)$$

where the superscripts (r) on SD and SV indicate that these spectral values are computed for damping ζ_r and frequency $\omega_r = \frac{2\pi}{T_r}$, corresponding to the r^{th} mode of vibration. However, the different modal maxima do not occur at the same time and therefore the individual modes do not simultaneously contribute their peak values to the maximum total response.

The sum of maximum modal responses

$$\sum_{r=1}^n \{ |x^{(r)}(t)| \}_{\max} = [|A|] \left\{ \begin{array}{l} SD^{(1)} \\ SD^{(2)} \\ \vdots \\ SD^{(n)} \end{array} \right\} \quad (46)$$

would clearly give an upper bound to the total system response but at the same time may be too conservative. An alternative approach based on statistical considerations (Goodman, et al, 1958), is to take the square root of the sum of the squares of the individual modal maxima. This method (R. M. S.) has been shown to give reasonable results (Jennings and Newmark, 1960) for structures in which the main contributions come from the lowest few modes. The question of mode superposition has been examined in more detail by Merchant and Hudson (1962) and the conditions under which a meaningful degree of conservatism can be achieved have been approximately determined. When the maxima of each response quantity have been determined from equations analogous to Equation (45), the R. M. S. approximation is given by

$$\{x\}_{\max} \approx \left\{ \begin{array}{l} \left[\sum_{i=1}^n (x_{1\max}^i)^2 \right]^{1/2} \\ \left[\sum_{i=1}^n (x_{2\max}^i)^2 \right]^{1/2} \\ \vdots \\ \left[\sum_{i=1}^n (x_{n\max}^i)^2 \right]^{1/2} \end{array} \right\} \quad (47)$$

Analogous expressions for $\{V\}_{\max}$ and $\{M\}_{\max}$ follow from Equation (47).

The above described response spectrum superposition method provides only an approximate indication of the maximum response in the multi-degree-of-freedom systems. The advantage in this method is that it avoids lengthy computations associated with the exact method and at the same time takes into account the dynamic nature of the problem. It can often provide reasonable results for design purposes.

Computation of Response Spectra

Several different methods have been used in the past for calculation of response spectra. One of the first was based on the numerical integration of the differential equation describing a single-degree-of-freedom system. Another useful method employed a semi-graphical approach in which an integrator was used (Housner, 1941). The first complete response spectrum calculations were performed by Biot (1941) using a mechanical analog, and later a passive electrical analog system speeded up the process and increased the accuracy (Housner and McCann, 1949; Alford, et al, 1951).

The availability of digital computers in recent years has led to an increase in their use for those calculations, based either on the numerical integration of the differential equation or on the integration of the Duhamel's integral. The third order Runge-Kutta scheme of integration has been and still is preferred by many investigators due to its accuracy, stability and self-starting features. This scheme still seems to be one of the best methods when the accelerogram data are not digitized at equal time intervals.

For the standard corrected accelerograms (Hudson, et al, 1971), which are available at equally spaced time intervals with $\Delta t = 0.02$ sec., an

approach based on the exact analytical solution of the Duhamel integral for the successive linear segments of excitation appears to be the most practical (Iwan, 1960). This approach and its accuracies were described in detail by Nigam and Jennings (1968). For completeness of the present report some of the important features of the method are briefly summarized here.

The differential equation for the relative motion $x(t)$ of a single-degree-of-freedom oscillator subjected to base acceleration $a(t)$ is given by

$$\ddot{x} + 2\omega\zeta\dot{x} + \omega^2 x = -a(t) \quad (48)$$

where, as before, ζ = fraction of critical damping and ω = the natural frequency of vibration of the oscillator. For $a(t)$ given by a segmentally linear function, for $t_i \leq t \leq t_{i+1}$, (48) becomes

$$\ddot{x} + 2\omega\zeta\dot{x} + \omega^2 x = -a_i + \frac{\Delta a_i}{\Delta t}(t-t_i) \quad (49)$$

where

$$\Delta t = t_{i+1} - t_i = \text{const.} \quad (50)$$

and

$$\Delta a_i = a_{i+1} - a_i \quad (51)$$

The solution of Equation (49) for $t_i \leq t \leq t_{i+1}$ then becomes

$$x(t) = e^{-\zeta\omega(t-t_i)} \left[C_1 \sin \omega_d(t-t_i) + C_2 \cos \omega_d(t-t_i) \right] - \frac{a_i}{\omega^2} + \frac{2\zeta}{\omega^3} \frac{\Delta a_i}{\Delta t} - \frac{1}{\omega^2} \frac{\Delta a_i}{\Delta t} (t-t_i) \quad (52)$$

where

$$\omega_d \equiv \omega \sqrt{1-\zeta^2} \quad (53)$$

Setting $x=x_i$ and $\dot{x}=\dot{x}_i$ at $t=t_i$, C_1 and C_2 become

$$C_1 = \frac{1}{\omega_d} \left(\zeta \omega x_i + \dot{x}_i - \frac{2\zeta^2 - 1}{\omega} \frac{\Delta a_i}{\Delta t} + \frac{\zeta}{\omega} a_i \right) \quad (54)$$

$$C_2 = x_i - \frac{2\zeta}{\omega} \frac{\Delta a_i}{\Delta t} + \frac{a_i}{\omega} \quad (55)$$

Substitution of C_1 and C_2 into Equation (52) and setting $t=t_{i+1}$ leads to the recurrence relationship for x_i and \dot{x}_i given by

$$\begin{Bmatrix} x_{i+1} \\ \dot{x}_{i+1} \end{Bmatrix} = [A(\zeta, \omega, \Delta t)] \begin{Bmatrix} x_i \\ \dot{x}_i \end{Bmatrix} + [B(\zeta, \omega, \Delta t)] \begin{Bmatrix} a_i \\ a_{i+1} \end{Bmatrix} \quad (56)$$

The elements of matrices A and B are

$$\left. \begin{aligned} a_{11} &= e^{-\zeta\omega\Delta t} \left(\frac{\zeta}{\sqrt{1-\zeta^2}} \sin \omega_d \Delta t + \cos \omega_d \Delta t \right) \\ a_{12} &= \frac{e^{-\zeta\omega\Delta t}}{\omega_d} \sin \omega_d \Delta t \\ a_{21} &= -\frac{\omega}{\sqrt{1-\zeta^2}} e^{-\zeta\omega\Delta t} \sin \omega_d \Delta t \\ a_{22} &= e^{-\zeta\omega\Delta t} \left(\cos \omega_d \Delta t - \frac{\zeta}{\sqrt{1-\zeta^2}} \sin \omega_d \Delta t \right) \end{aligned} \right\} \quad (57)$$

$$\left. \begin{aligned} b_{11} &= e^{-\zeta\omega\Delta t} \left[\left(\frac{2\zeta^2 - 1}{\omega^2 \Delta t} + \frac{\zeta}{\omega} \right) \frac{\sin \omega_d \Delta t}{\omega_d} + \left(\frac{2\zeta}{\omega^3 \Delta t} + \frac{1}{\omega^2} \right) \cos \omega_d \Delta t \right] - \frac{2\zeta}{\omega^3 \Delta t} \\ b_{12} &= -e^{-\zeta\omega\Delta t} \left[\left(\frac{2\zeta^2 - 1}{\omega^2 \Delta t} \right) \frac{\sin \omega_d \Delta t}{\omega_d} + \frac{2\zeta}{\omega^3 \Delta t} \cos \omega_d \Delta t \right] - \frac{1}{\omega^2} + \frac{2\zeta}{\omega^3 \Delta t} \\ b_{21} &= e^{-\zeta\omega\Delta t} \left[\left(\frac{2\zeta^2 - 1}{\omega^2 \Delta t} + \frac{\zeta}{\omega} \right) \left(\cos \omega_d \Delta t - \frac{\zeta}{\sqrt{1-\zeta^2}} \sin \omega_d \Delta t \right) \right. \\ &\quad \left. - \left(\frac{2\zeta}{\omega^3 \Delta t} + \frac{1}{\omega^2} \right) (\omega_d \sin \omega_d \Delta t + \zeta \omega \cos \omega_d \Delta t) \right] + \frac{1}{\omega^2 \Delta t} \end{aligned} \right\} \quad (58)$$

$$b_{22} = -e^{-\zeta\omega\Delta t} \left[\frac{2\zeta^2 - 1}{\omega^2\Delta t} \left(\cos \omega_d\Delta t - \frac{\zeta}{\sqrt{1-\zeta^2}} \sin \omega_d\Delta t \right) - \frac{2\zeta}{\omega^3\Delta t} \left(\omega_d \sin \omega_d\Delta t + \zeta\omega \cos \omega_d\Delta t \right) \right] - \frac{1}{\omega^2\Delta t} \quad \left. \vphantom{b_{22}} \right\} \begin{array}{l} (58) \\ \text{cont.} \end{array}$$

Therefore if the displacement and velocity of the oscillator are known at t_i the complete response can be computed by a step-by-step application of Equations (56). The advantage of this method lies in the fact that for a constant time interval Δt , here equal to 0.02 sec., matrices A and B depend only on ζ and ω and are constant during the calculation of the response.

To calculate and plot complete response spectra (Figures 2 and 3), maximum values of displacement $SD = |x(t)|_{\max}$, velocity $SV = |\dot{x}(t)|_{\max}$ and absolute acceleration $SA = |\ddot{x}(t)+a(t)|_{\max}$ are stored for each period $T = \frac{2\pi}{\omega}$ and fraction of critical damping ζ . The calculation of these maxima is approximate because the displacement $x(t)$, velocity $\dot{x}(t)$ and acceleration $\ddot{x}(t)$ are found only at discrete points where the values are x_i , \dot{x}_i and \ddot{x}_i+a_i for $i = 1, 2, \dots, N$, where N is the total number of discrete equally spaced points at which the input accelerogram is given. For standard spectrum calculations, the choice of the interval of integration ΔT is selected to be

$$\Delta t \leq \frac{T}{10} \quad (59)$$

but always less than or equal to $\Delta t_{\max} = 0.02$ sec. Here T is the period of the oscillator for which the spectrum point is calculated. For such choice of integration interval the discretization error is always less than 5% (Nigam and Jennings, 1968). Other details related to the calculation of the response spectra may be found in the report by Nigam and Jennings (1968).

M. D. Trifunac
 Earthquake Engineering Research Laboratory
 California Institute of Technology

REFERENCES

- Alford, J. L., G. W. Housner and R. R. Martel (1957). Spectrum Analysis of Strong-Motion Earthquakes, Earthquake Eng. Res. Lab., California Institute of Technology, Pasadena (Revised 1964).
- Benioff, H. (1934). The Physical Evaluation of Seismic Destructiveness, Bull. Seism. Soc. Amer., 24, 398-403.
- Biot, M. A. (1941). A Mechanical Analyzer for the Prediction of Earthquake Stresses, Bull. Seism. Soc. Amer., 31, 151-171.
- Caughey, T. K. (1959). Classical Normal Modes in Damped Linear Systems, Journ. App. Mechs., 59-A-62.
- Goodman, L. E., E. Rosenblueth and N. M. Newmark (1958). Aseismic Design of Firmly Founded Elastic Structures, Trans. Amer. Soc. Civil Eng., 120, 782-802.
- Housner, G. W. (1941). Calculating the Response of an Oscillator to Arbitrary Ground Motion, Bull. Seism. Soc. Amer., 31, 143-149.
- Housner, G. W. and G. D. McCann (1949). The Analysis of Strong-Motion Earthquake Records with the Electric Analog Computer, Bull. Seism. Soc. Amer., 39, 47-56.
- Housner, G. W. and D. E. Hudson (1959). Applied Mechanics - Dynamics, Van Nostrand Co., Ltd.
- Hudson, D. E. (1956). Response Spectrum Techniques in Engineering Seismology, Proc. World Conference on Earthquake Eng., Earthquake Engineering Research Institute and the University of California, Berkeley.
- Hudson, D. E. (1962). Some Problems in the Application of Spectrum Techniques to Strong-Motion Earthquake Analysis, Bull. Seism. Soc. Amer., 52, 417-430.
- Hudson, D. E., A. G. Brady and M. D. Trifunac (1969). Strong-Motion Earthquake Accelerograms, Digitized and Plotted Data, Vol. I, Earthquake Eng. Res. Lab. EERL 69-20, California Institute of Technology, Pasadena.
- Hudson, D. E., A. G. Brady, M. D. Trifunac and A. Vijayaraghavan (1971). Strong-Motion Earthquake Accelerograms, Corrected Accelerograms and Integrated Velocity and Displacement Curves, Vol. II, Earthquake Eng. Res. Lab. EERL 71-51, California Institute of Technology, Pasadena.

- Iwan, W. D. (1960). Digital Calculation of Response Spectra and Fourier Spectra, Unpublished Note, California Institute of Technology, Pasadena.
- Jennings, R. L. and N. M. Newmark (1960). Elastic Response of Multi-Story Shear Beam Type Structures, Proc. Second World Conf. on Earthquake Eng., Tokyo.
- Kawasumi, H. (1956). Notes on the Theory of Vibration Analyzer, Bull. Earthquake Res. Inst., Tokyo University, Vol. XXXIV, Part I.
- Merchant, H. C. and D. E. Hudson (1962). Mode Superposition in Multi-Degree of Freedom Systems Using Earthquake Response Spectrum Data, Bull. Seism. Soc. Amer., 52, 405-416.
- Nigam, N. C. and P. C. Jennings (1968). Digital Calculation of Response Spectra from Strong-Motion Earthquake Records, Earthquake Eng. Res. Lab., California Institute of Technology, Pasadena.
- Rayleigh, J. W. S. (1937). The Theory of Sound, Macmillan.
- Rubin, S. (1961). Concepts in Shock Data Analysis, Chapter 23 of Shock and Vibration Handbook (ed. C. M. Harris and C. E. Crede), McGraw-Hill Book Co., Inc., New York.
- Trifunac, M. D. (1970). Low Frequency Digitization Errors and a New Method for Zero Baseline Correction of Strong-Motion Accelerograms, Earthquake Eng. Res. Lab EERL 70-07, California Institute of Technology, Pasadena.
- Trifunac, M. D. , F. E. Udawadia and A. G. Brady (1971). High Frequency Errors and Instrument Corrections of Strong-Motion Accelerograms, Earthquake Eng. Res. Lab., EERL 71-05, California Institute of Technology, Pasadena.

PLOTS AND PRINT-OUTS OF RESPONSE SPECTRA

The response spectra appearing in the following pages are calculated from the corrected data published in the several parts of Volume II of the report "Strong Motion Earthquake Accelerograms" (Hudson, et al, 1971). For each component there are two figures showing response spectra and two pages of tables containing most of the spectral ordinates. These are described in detail in the following.

The first plot is that of the true relative velocity response spectrum, SV. The name of the earthquake, the instrument location, and the damping values appear in the descriptive titles. The first title gives the name, date and time of occurrence of the earthquake; the second is comprised of two labels, the instrument location or observation station and the particular component. The first identification label, for example IIA001, indicates that the processed record belongs to Part A of Volume II, this volume containing corrected data, and that this record is the first of the complete series. This record's uncorrected data appear in Volume I, Part A, its response spectra in Volume III, Part A, and its Fourier spectra in Volume IV, Part A. The second identification label is a record label (for instance 57.002.0), a string of three numbers separated by periods. The first number gives the year in which the earthquake appeared, the second is the serial number of the record as it was received at the Earthquake Engineering Research Laboratory, and the third indicates whether it was a main event or an aftershock, sequentially numbered, the main event starting with zero.

The five continuous line plots correspond to damping values of 0, 2, 5, 10 and 20 percent of critical, and these curves will usually be free of any confusion, with the zero damped curve having the greatest ordinates. The dashed curve on this plot is the Fourier amplitude spectrum, FS, calculated at the same periods as for the relative velocity response spectra. The ordinates for the spectra are in units of in/sec, in accordance with past engineering practice, while the scale is chosen to fill the available space. The periods extend to 15 seconds, close to the long period cut-off point in the corrected data of Volume II, but the axis is divided into two linear portions. From 0 to 3 seconds takes up three-quarters of the axis, and from 3 to 15 seconds takes up the remainder.

The second plot is that of the pseudo velocity response spectrum, PSV, together with the relative displacement spectrum, SD, and the pseudo acceleration spectrum, PSA, in the tripartite logarithmic plot versus period. This convenient plot is made possible by the relationships between PSV, SD and PSA in Equations (14) and (15). The units used are, once again, the convenient engineering units of in/sec, in, and g, respectively. The descriptive titles are the same as on the true relative velocity spectrum.

The two pages of tables contain values of the ordinates for the previous plots. After the titles there are arranged, in columns, the periods (PER), Fourier amplitude spectrum (FS), and then sets of four columns containing SD, SV, SA and PSV for all of the five damping values. The units are indicated and each value is followed by a multiplicative power of 10, e. g., 731-1 is 73.1.

The ordinates are also stored on computer cards containing the Fourier amplitude spectrum and, for all of the five damping values, the

pseudo velocity and relative velocity response spectra. A simplified economic format, 13F6.3, is made possible by using the logarithms of these spectra. The last two columns are for identification purposes. These cards are available on request from the National Information Service for Earthquake Engineering, at the California Institute of Technology.

A. Gerald Brady
Earthquake Engineering Research Laboratory
California Institute of Technology

EARTHQUAKE DATA

<u>Date & Time</u>	<u>Location</u>	<u>Epicenter</u>	<u>Max. Intensity</u>	<u>Mag.</u>	<u>References (See Below)</u>
May 18, 1940, 2037PST	Imperial Valley	32°44'N, 115°27'W	X	6.3	1, 2, 3
Oct. 7, 1951, 2011PST	Northwest Calif.	40°17'N, 124°48'W	VII		
July 21, 1952, 9453PDT	Kern County	35°00'N, 119°02'W	XI	7.7	4, 5
Mar.22, 1957, 1144PST	San Francisco	37°40'N, 122°29'W	VII	5.3	6
Apr. 8, 1961, 2323PST	Hollister	36°40'N, 121°18'W	VII	5.6	
Apr. 8, 1968, 1830PST	Borrego Mtn.	33°09'N, 116°08'W	VII	6.5	7, 8

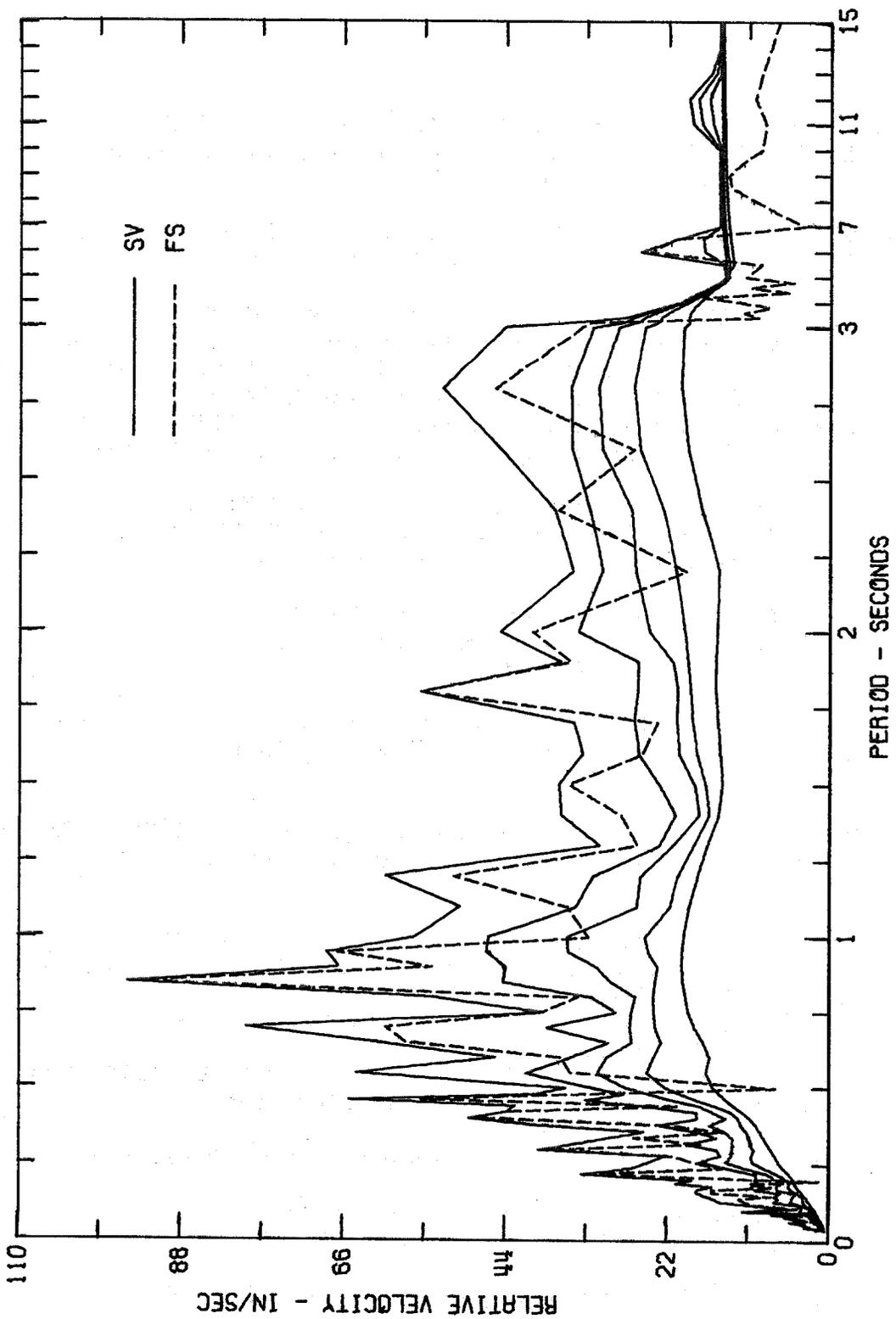
1. Ulrich, F. P., "The Imperial Valley Earthquakes of 1940," BSSA, Vol. 31, No. 1, January 1941, p. 13-31.
2. Trifunac, M. D. and Brune, J. N., "Complexity of Energy Release During the Imperial Valley, California Earthquake of 1940," BSSA, Vol. 60, No. 1, February 1970, p. 137-160.
3. Trifunac, M. D., "Response Envelope Spectrum and Interpretation of Strong Earthquake Ground Motion," BSSA, Vol. 61, No. 2, April 1971, p. 343-356.
4. Steinbrugge, K. V. and Moran, D. F., "An Engineering Study of the Southern California Earthquake of July 21, 1952 and Its Aftershocks," BSSA, Vol. 44, No. 2B, April 1954.

5. "Earthquakes in Kern County, California During 1952," California Department of Natural Resources, Division of Mines, San Francisco, Bulletin 171, November 1955.
6. "San Francisco Earthquakes of March, 1957," California Division of Mines, Special Report 57, 1959.
7. "Strong Motion Instrument Data on the Borrego Mountain Earthquake of 9 April, 1968," Joint Report by the Seismological Field Survey, USCGS, Environmental Science Services Administration, U. S. Department of Commerce, and the Earthquake Engineering Research Laboratory, California Institute of Technology, August 1968.
8. Allen, C. R., et al., "The Borrego Mountain, California, Earthquake of 9 April 1968: A Preliminary Report," BSSA, Vol. 58, No. 3, June 1968.

EARTHQUAKE RECORDS CONTAINED IN
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III A020; San Diego Light and Power Bldg. ; S00W, N90E, Vert.	260

RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL VALLEY EARTHQUAKE MAY 18, 1940 - 2037 PST
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

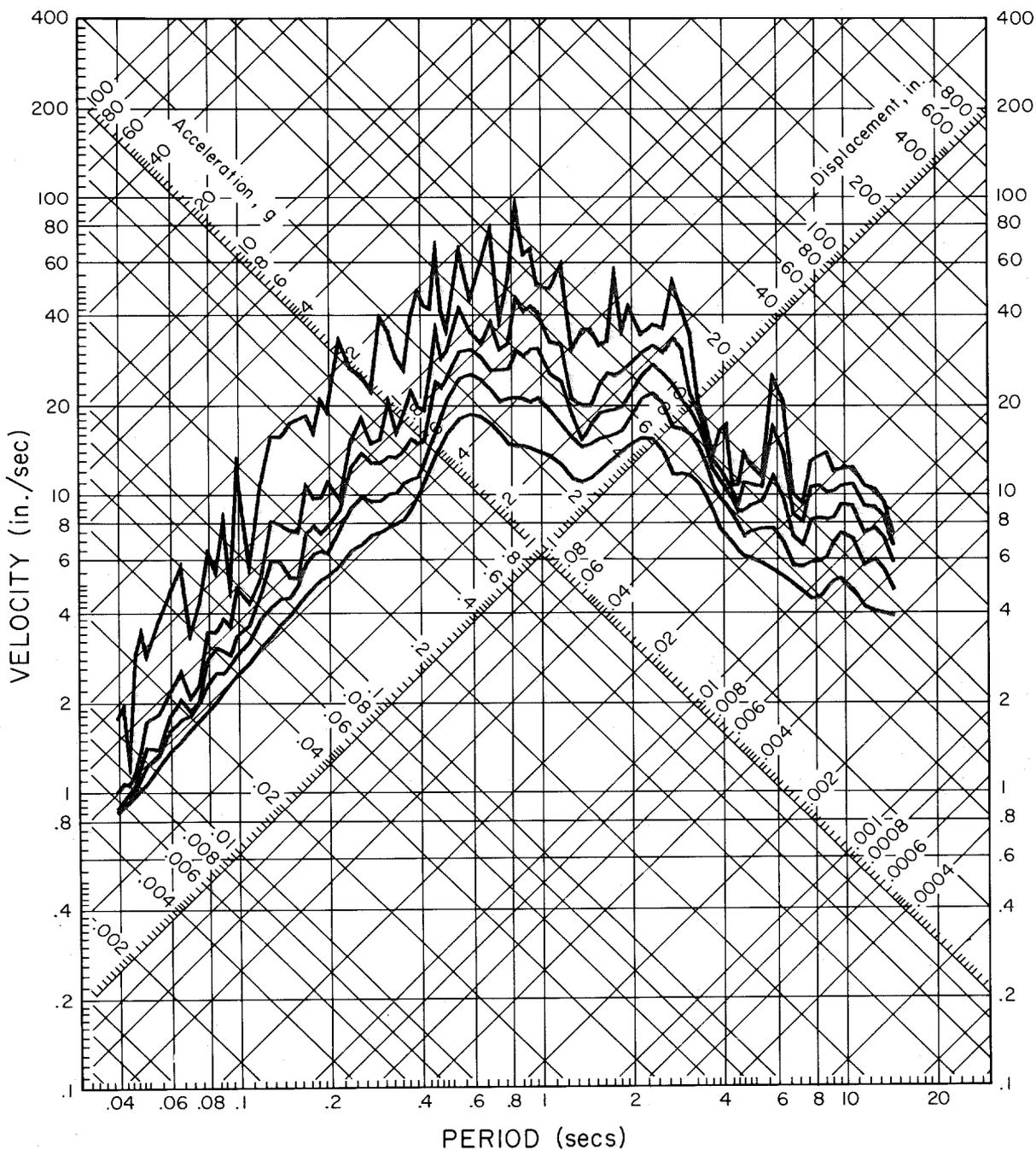


RESPONSE SPECTRUM

IMPERIAL VALLEY EARTHQUAKE MAY 18, 1940 - 2037 PST

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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL VALLEY EARTHQUAKE MAY 18, 1940 - 2037 PST

IIIIA001 40.001.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT CCMF 500E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SC AND G FOR SA

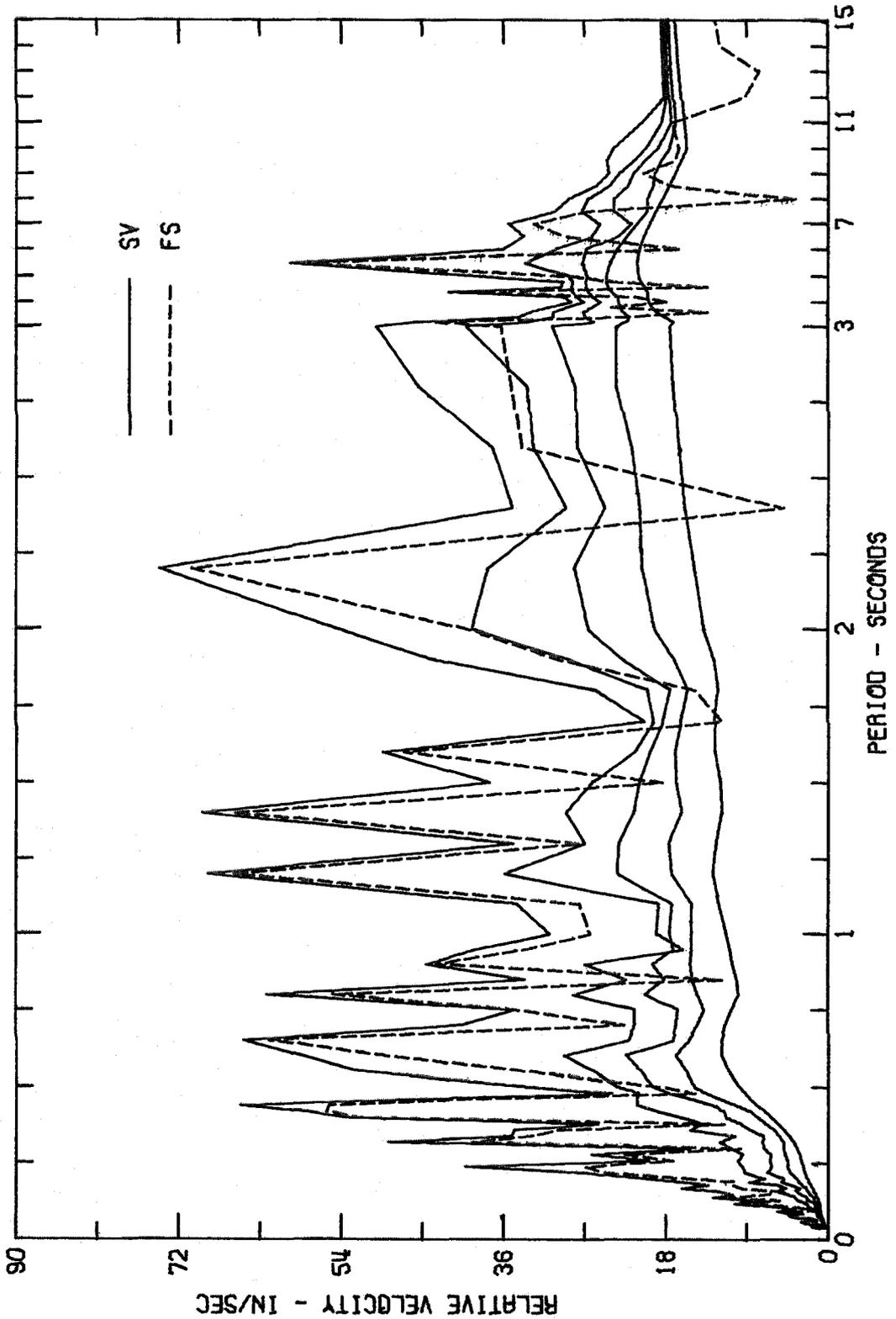
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	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
C.040	155-2	114-4	162-2	731-3	179-2	647-5	666-3	416-3	101-2	566-5	550-3	363-3	890-3	552-5	502-3	356-3	868-3	547-5	420-3	351-3	859-3
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C.044	885-3	856-5	959-3	473-3	128-2	747-5	797-3	393-3	106-2	708-5	713-3	371-3	101-2	670-5	558-3	361-3	557-3	655-5	490-3	352-3	942-3
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C.048	293-2	270-4	329-2	119-2	353-2	107-4	555-3	479-3	140-2	954-5	767-3	424-3	124-2	864-5	663-3	391-3	113-2	794-5	557-3	363-3	103-2
C.050	241-2	232-4	258-2	951-3	292-2	139-4	116-2	571-3	175-2	113-4	826-3	467-3	142-2	582-5	668-3	407-3	123-2	660-5	585-3	369-3	108-2
C.055	309-2	338-4	339-2	114-2	386-2	163-4	128-2	557-3	187-2	123-4	879-3	416-3	140-2	117-4	763-3	406-3	134-2	108-4	684-3	382-3	123-2
C.060	314-2	459-4	409-2	130-2	481-2	212-4	155-2	603-3	222-2	175-4	114-2	507-3	184-2	156-4	891-3	441-3	163-2	132-4	774-3	389-3	139-2
C.065	453-2	607-4	531-2	147-2	587-2	268-4	193-2	649-3	259-2	216-4	133-2	523-3	208-2	184-4	104-2	459-3	178-2	153-4	882-3	357-3	150-2
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C.075	340-2	529-4	431-2	962-3	443-2	282-4	173-2	514-3	236-2	248-4	142-2	458-3	268-2	243-4	115-2	442-3	204-2	212-4	109-2	393-3	177-2
C.080	552-2	830-4	602-2	132-2	652-2	446-4	258-2	712-3	350-2	361-4	187-2	579-3	284-2	299-4	145-2	488-3	235-2	242-4	125-2	401-3	190-2
C.085	456-2	757-4	525-2	107-2	559-2	474-4	256-2	668-3	350-2	420-4	223-2	591-3	310-2	365-4	178-2	490-3	255-2	276-4	139-2	408-3	204-2
C.090	243-2	120-3	776-2	151-2	839-2	559-4	305-2	707-3	390-2	435-4	217-2	545-3	304-2	740-4	305-2	526-3	387-2	556-4	196-2	419-3	251-2
C.095	244-2	762-4	430-2	864-3	504-2	552-4	268-2	623-3	365-2	445-4	219-2	508-3	294-2	414-4	187-2	474-3	274-2	358-4	158-2	423-3	237-2
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C.110	422-2	102-3	522-2	866-3	585-2	768-4	367-2	653-3	438-2	648-4	366-2	632-3	465-2	740-4	305-2	526-3	387-2	556-4	231-2	443-3	312-2
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C.190	108-1	643-3	209-1	182-2	212-1	300-3	932-2	852-3	995-2	227-3	661-2	652-3	751-2	199-3	541-2	569-3	658-2	158-3	458-2	478-3	524-2
C.200	124-2	619-3	187-1	158-2	194-1	357-3	597-2	914-3	112-1	253-3	690-2	644-3	757-2	272-3	688-2	576-3	778-2	205-3	530-2	471-3	587-2
C.220	325-1	118-2	242-1	160-2	256-1	766-3	176-1	115-2	185-1	582-3	140-1	902-3	140-1	351-3	675-2	654-3	519-2	251-3	614-2	473-3	659-2
C.240	143-1	103-2	266-1	183-2	270-1	595-3	139-1	105-2	155-1	478-3	113-1	861-3	125-1	414-3	103-1	653-3	100-1	286-3	682-2	463-3	691-2
C.260	184-1	106-2	242-1	160-2	256-1	766-3	176-1	115-2	185-1	582-3	140-1	902-3	140-1	414-3	103-1	653-3	100-1	286-3	682-2	463-3	691-2
C.280	211-1	101-2	221-1	131-2	226-1	676-3	146-1	882-3	151-1	577-3	132-1	746-3	129-1	428-3	105-1	578-3	561-2	330-3	723-3	463-3	741-2
C.300	374-1	191-2	395-1	217-2	400-1	747-3	152-1	847-3	156-1	622-3	130-1	705-3	130-1	462-3	101-1	540-3	568-2	363-3	780-2	442-3	760-2
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C.340	265-1	158-2	256-1	140-2	293-1	892-3	151-1	789-3	165-1	729-3	131-1	641-3	134-1	596-3	105-1	500-3	102-1	439-3	884-2	422-3	812-2
C.360	140-1	153-2	251-1	121-2	268-1	111-2	179-1	877-3	193-1	849-3	140-1	655-3	144-1	637-3	111-1	511-3	111-1	481-3	532-2	408-3	840-2
C.380	224-1	243-2	402-1	172-2	403-1	137-2	231-1	572-3	227-1	549-3	162-1	678-3	156-1	689-3	119-1	502-3	114-1	550-3	591-2	403-3	910-2
C.400	484-1	312-2	490-1	199-2	491-1	128-2	178-1	827-3	202-1	957-3	139-1	615-3	150-1	740-3	123-1	481-3	116-1	639-3	107-1	418-3	100-1
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C.550	351-1	588-2	643-1	199-2	672-1	375-2	412-1	126-2	428-1	268-2	315-1	917-3	307-1	219-2	247-1	759-3	250-1	160-2	167-1	583-3	163-1
C.600	365-1	441-2	453-1	125-2	461-1	342-2	352-1	571-3	359-1	300-2	302-1	859-3	314-1	247-2	238-1	722-3	259-1	181-2	162-1	570-3	189-1
C.650	575-1	628-2	614-1	152-2	667-1	339-2	300-1	824-3	328-1	305-2	268-1	738-3	294-1	256-2	228-1	637-3	248-1	152-2	171-1	521-3	185-1
C.700	603-1	884-2	792-1	184-2	794-1	430-2	384-1	900-3	380-1	257-2	271-1	622-3	266-1	255-2	236-1	546-3	229-1	195-2	183-1	459-3	175-1

IIIIA001 40.001.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT CCMP SOOE

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SE AND G FOR SA

PER	CAMPING = 0 PERCENT				CAMPING = 2 PERCENT				CAMPING = 5 PERCENT				CAMPING = 10 PERCENT				CAMPING = 20 PERCENT				
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RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL VALLEY EARTHQUAKE MAY 18, 1940 - 2037 PST
111A001 40.001.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP S90W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

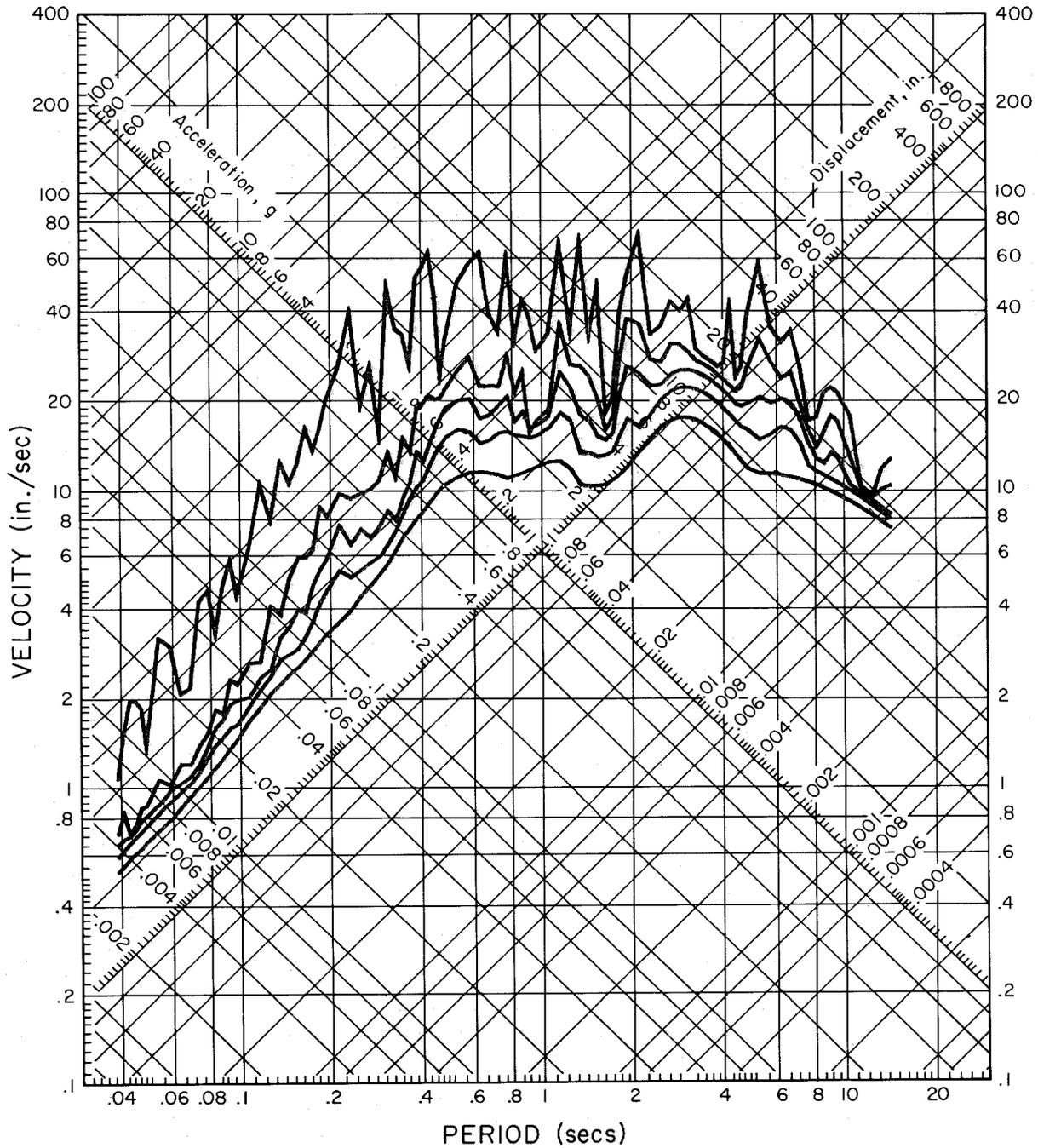


RESPONSE SPECTRUM

IMPERIAL VALLEY EARTHQUAKE MAY 18, 1940 - 2037 PST

IIIA001 40.001.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP S90W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL VALLEY EARTHQUAKE MAY 18, 1940 - 2037 PST

IIIAJ01 40.CO1.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP S90W

THE UNITS USED ARE SEC FUR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

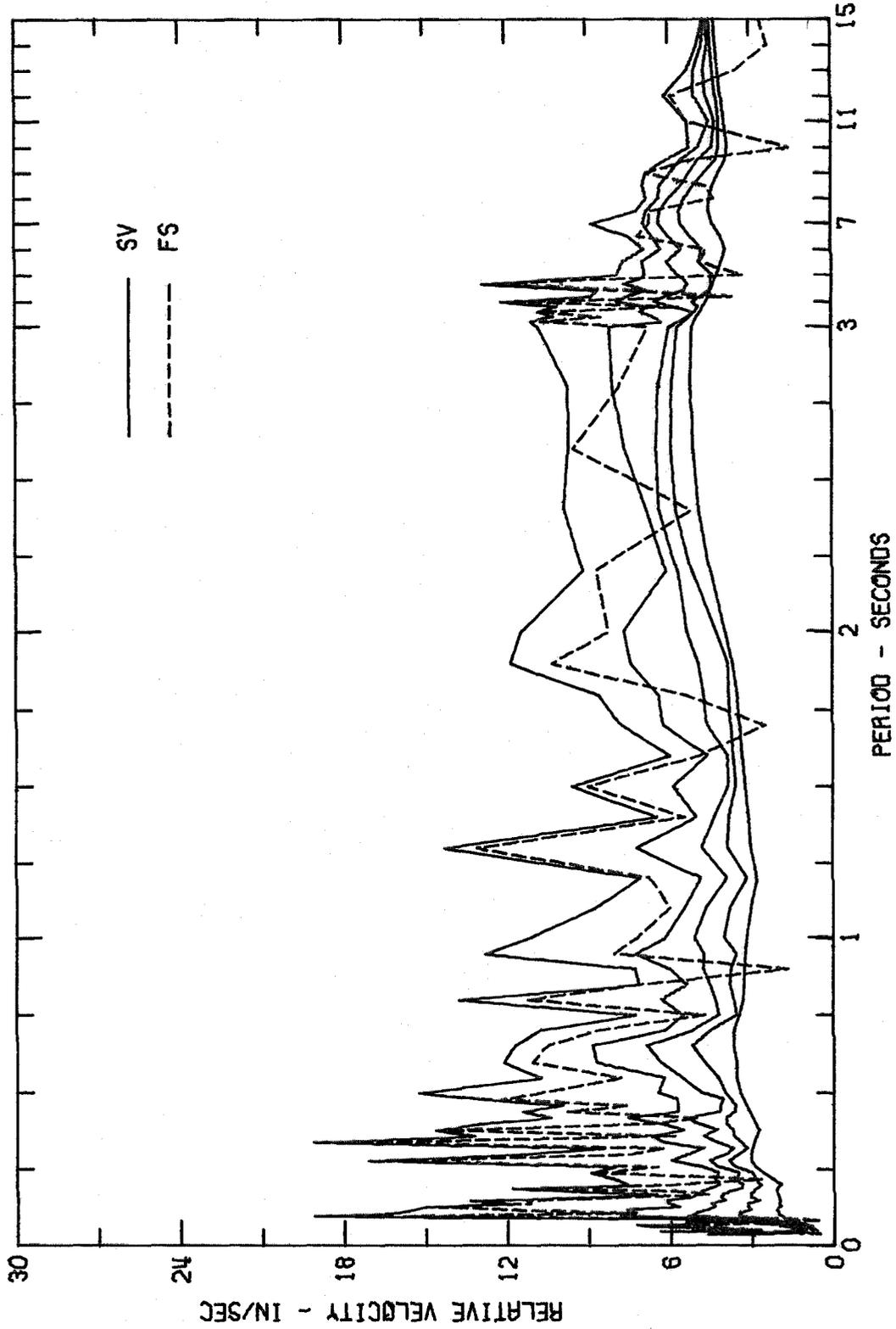
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IIIA001 40.001.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP S90W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SE AND G FOR SA

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0.85	116-1	442-2	335-1	626-3	327-1	238-2	223-1	422-3	220-1	237-2	181-1	337-3	175-1	212-2	150-1	304-3	156-1	156-2	101-1	232-3	115-1
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1.10	275-1	610-2	345-1	515-3	348-1	334-2	187-1	283-3	191-1	317-2	172-1	270-3	181-1	292-2	151-1	251-3	167-1	224-2	122-1	204-3	125-1
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RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL VALLEY EARTHQUAKE MAY 18, 1940 - 2037 PST
1111001 40.001.0 EL CENTRO VALLEY IRRIGATION DISTRICT
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL
COMP VERT



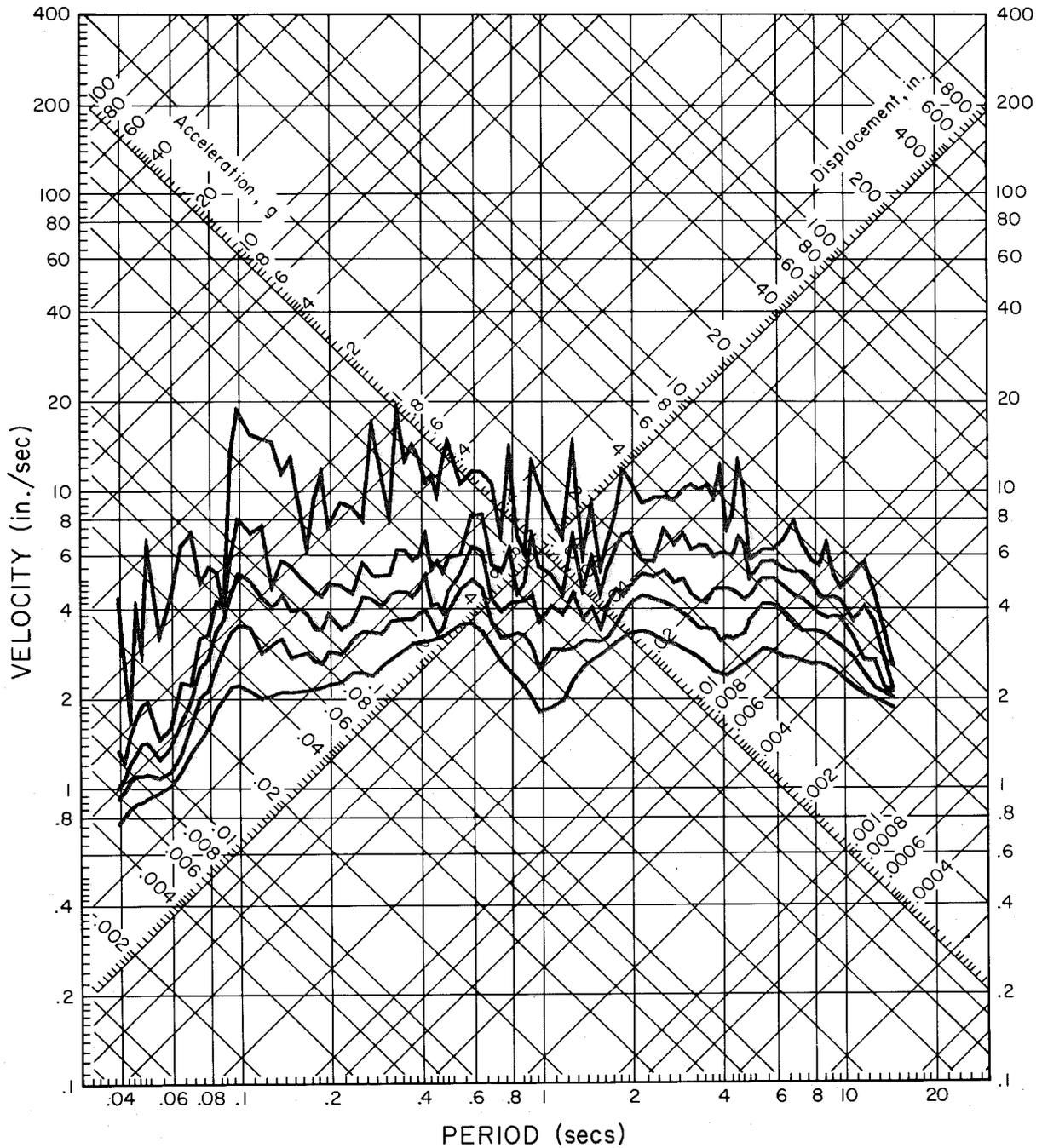
RESPONSE SPECTRUM

IMPERIAL VALLEY EARTHQUAKE MAY 18, 1940 - 2037 PST

IIIA001 40.001.0 EL CENTRO VALLEY IRRIGATION DISTRICT

COMP VEBJ

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL VALLEY EARTHQUAKE MAY 18, 1940 - 2037 PST

IIIA001 40.001.0 EL CENTRU VALLEY IRRIGATION DISTRICT

CCMF VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SC AND G FOR SA

PER	DAMPING = 0 PERCENT					DAMPING = 2 PERCENT					DAMPING = 5 PERCENT					DAMPING = 10 PERCENT					DAMPING = 20 PERCENT				
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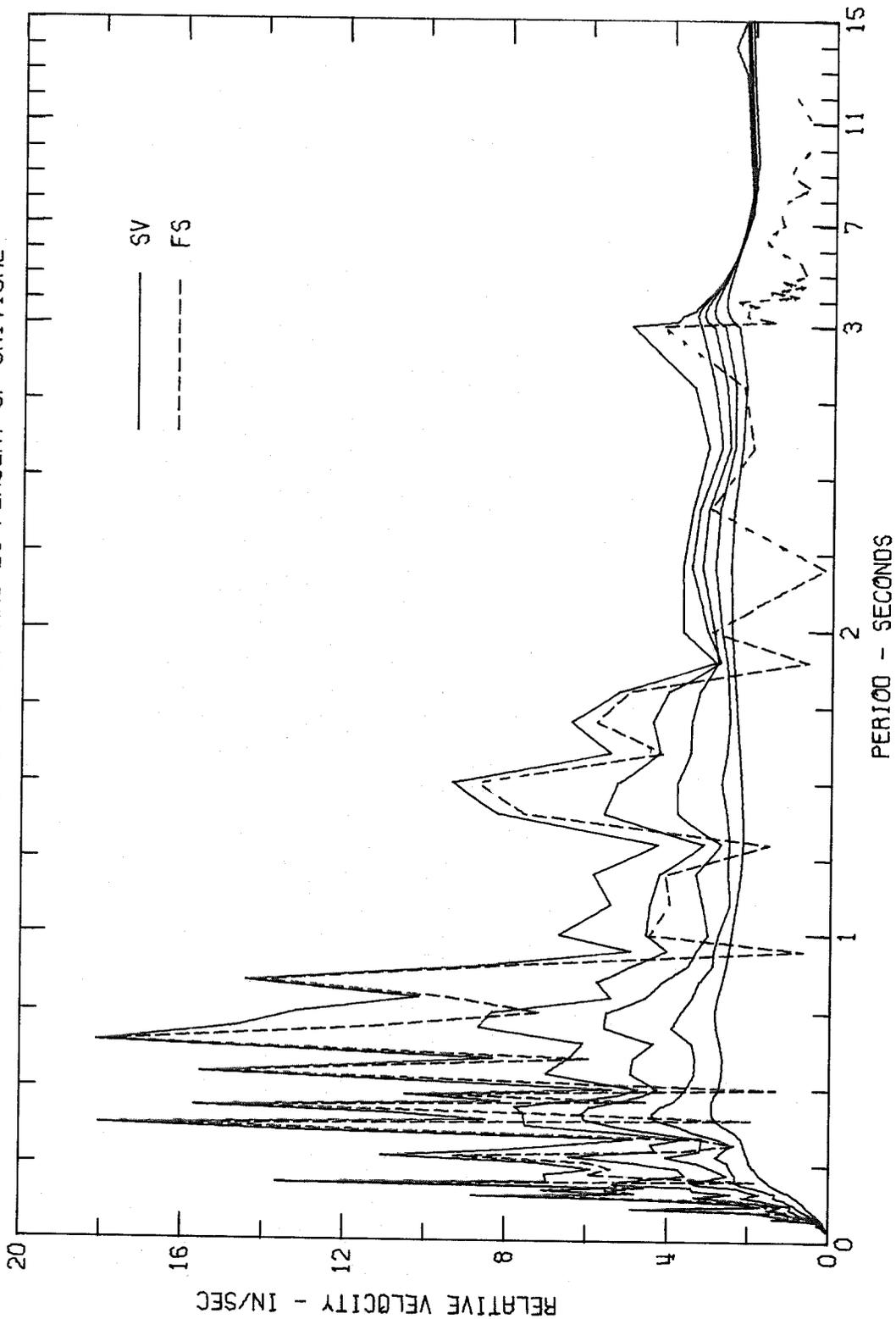
IIIA001 40.001.0 EL CENTRO VALLEY IRRIGATION DISTRICT

CCMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT					DAMPING = 2 PERCENT					DAMPING = 5 PERCENT					DAMPING = 10 PERCENT					DAMPING = 20 PERCENT							
	FS	SV	SD	SA	PSV	SV	SD	SA	PSV	SV	SD	SA	PSV	SV	SD	SA	PSV	SV	SD	SA	PSV	SV	SD	SA	PSV	SV	SD	SA
0.75	470-2	869-3	724-2	158-3	728-2	649-3	550-2	118-3	544-2	479-3	419-2	874-4	401-2	392-3	353-2	727-4	329-2	326-3	342-2	663-4	273-2							
0.80	112-1	176-2	137-1	281-3	138-1	832-3	632-2	133-3	654-2	548-3	433-2	882-4	431-2	430-3	365-2	700-4	337-2	323-3	329-2	583-4	254-2							
0.85	704-2	572-3	711-2	137-3	718-2	625-3	536-2	868-4	462-2	583-3	454-2	828-4	431-2	462-3	381-2	665-4	342-2	323-3	327-2	516-4	239-2							
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0.95	804-2	193-2	128-1	219-3	128-1	110-2	727-2	124-3	728-2	650-3	477-2	792-4	460-2	462-3	350-2	530-4	305-2	309-3	321-2	402-4	204-2							
1.00	722-2	172-2	112-1	176-3	108-1	909-3	618-2	931-4	571-2	591-3	509-2	607-4	371-2	417-3	400-2	432-4	262-2	296-3	316-2	370-4	186-2							
1.10	598-2	149-2	875-2	126-3	853-2	929-3	545-2	787-4	530-2	734-3	466-2	627-4	419-2	528-3	376-2	463-4	301-2	337-3	300-2	353-4	192-2							
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1.50	900-2	220-2	559-2	100-3	922-2	146-2	588-2	667-4	615-2	592-3	384-2	453-4	415-2	767-3	354-2	355-4	321-2	665-3	322-2	339-4	278-2							
1.60	489-2	142-2	557-2	570-4	561-2	118-2	460-2	472-4	463-2	902-3	388-2	364-4	354-2	815-3	367-2	333-4	320-2	739-3	334-2	328-4	290-2							
1.70	248-2	190-2	778-2	675-4	705-2	154-2	624-2	546-4	571-2	115-2	464-2	411-4	427-2	909-3	376-2	329-4	336-2	822-3	343-2	320-4	303-2							
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2.60	951-2	403-2	967-2	610-4	975-2	315-2	764-2	477-4	761-2	229-2	647-2	348-4	553-2	179-2	592-2	277-4	432-2	132-2	511-2	233-4	320-2							
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9.00	679-2	973-2	679-2	122-4	675-2	637-2	591-2	806-5	444-2	548-2	520-2	707-5	382-2	481-2	462-2	655-2	336-2	380-2	411-2	600-5	265-2							
9.50	529-2	800-2	607-2	907-5	529-2	677-2	554-2	771-5	448-2	585-2	489-2	673-5	386-2	485-2	423-2	601-5	321-2	388-2	386-2	574-5	256-2							
10.00	156-2	765-2	522-2	782-5	481-2	696-2	486-2	715-5	437-2	606-2	438-2	630-5	381-2	493-2	411-2	546-5	309-2	390-2	381-2	545-5	245-2							
11.00	531-2	930-2	531-2	786-5	531-2	655-2	450-2	555-5	374-2	580-2	429-2	456-5	331-2	497-2	413-2	451-5	283-2	396-2	394-2	503-5	226-2							
12.00	590-2	112-1	613-2	801-5	590-2	800-2	503-2	568-5	418-2	528-2	460-2	390-5	276-2	475-2	424-2	399-5	248-2	404-2	405-2	462-5	212-2							
13.00	346-2	948-2	527-2	573-5	458-2	764-2	502-2	463-5	369-2	573-2	467-2	350-5	277-2	462-2	434-2	362-5	223-2	424-2	415-2	426-5	205-2							
14.00	232-2	769-2	489-2	401-5	345-2	627-2	472-2	327-5	281-2	499-2	453-2	294-5	224-2	478-2	442-2	330-5	219-2	441-2	423-2	354-5	198-2							
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RELATIVE VELOCITY RESPONSE SPECTRUM
NORTHWEST CALIFORNIA EARTHQUAKE OCT 07, 1951 - 2011 PST
111A002 51.001.0 FERNDALE CITY HALL COMP S44W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

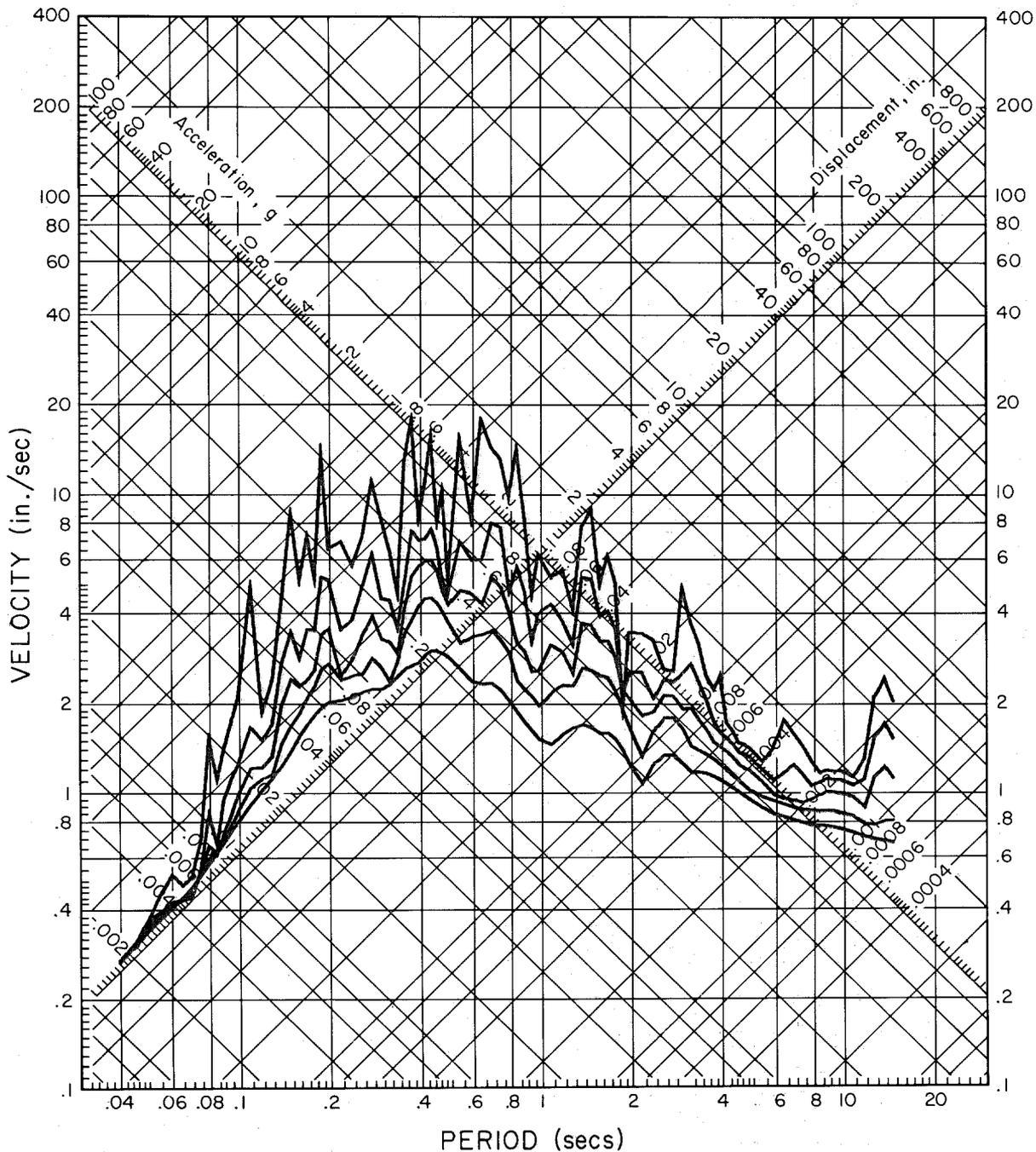


RESPONSE SPECTRUM

NORTHWEST CALIFORNIA EARTHQUAKE OCT 07, 1951 - 2011 PST

IIIA002 51.001.0 FERNDALE CITY HALL COMP S44W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



NORTHWEST CALIFORNIA EARTHQUAKE OCT 07, 1951 - 2011 PST
 IIIIAC02 51.001.0 FERNDAL E CITY HALL COMP S44W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

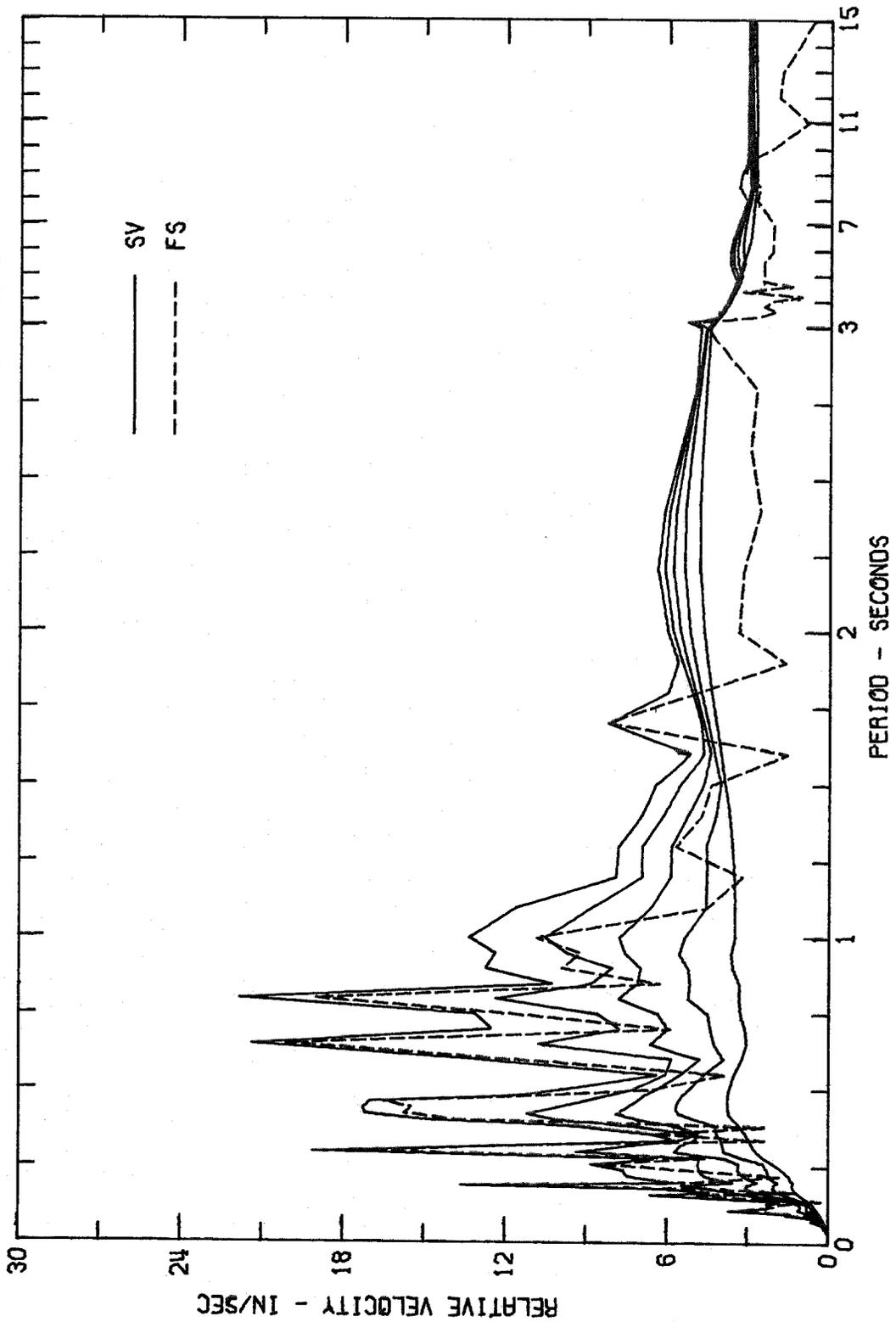
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	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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IIIA002 51.001.0 FERDALE CITY HALL COMP S44H

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT					DAMPING = 2 PERCENT					DAMPING = 5 PERCENT					DAMPING = 10 PERCENT					DAMPING = 20 PERCENT												
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4.80	130-2	113-2	278-2	501-5	147-2	105-2	277-2	467-5	137-2	942-3	275-2	423-5	123-2	822-3	270-2	445-5	107-2	760-3	258-2	516-5	995-3	107-2	760-3	258-2	516-5	995-3							
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RELATIVE VELOCITY RESPONSE SPECTRUM
NORTHWEST CALIFORNIA EARTHQUAKE OCT 07, 1951 - 2011 PST
111A002 51.001.0 FERNDALE CITY HALL COMP N46W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

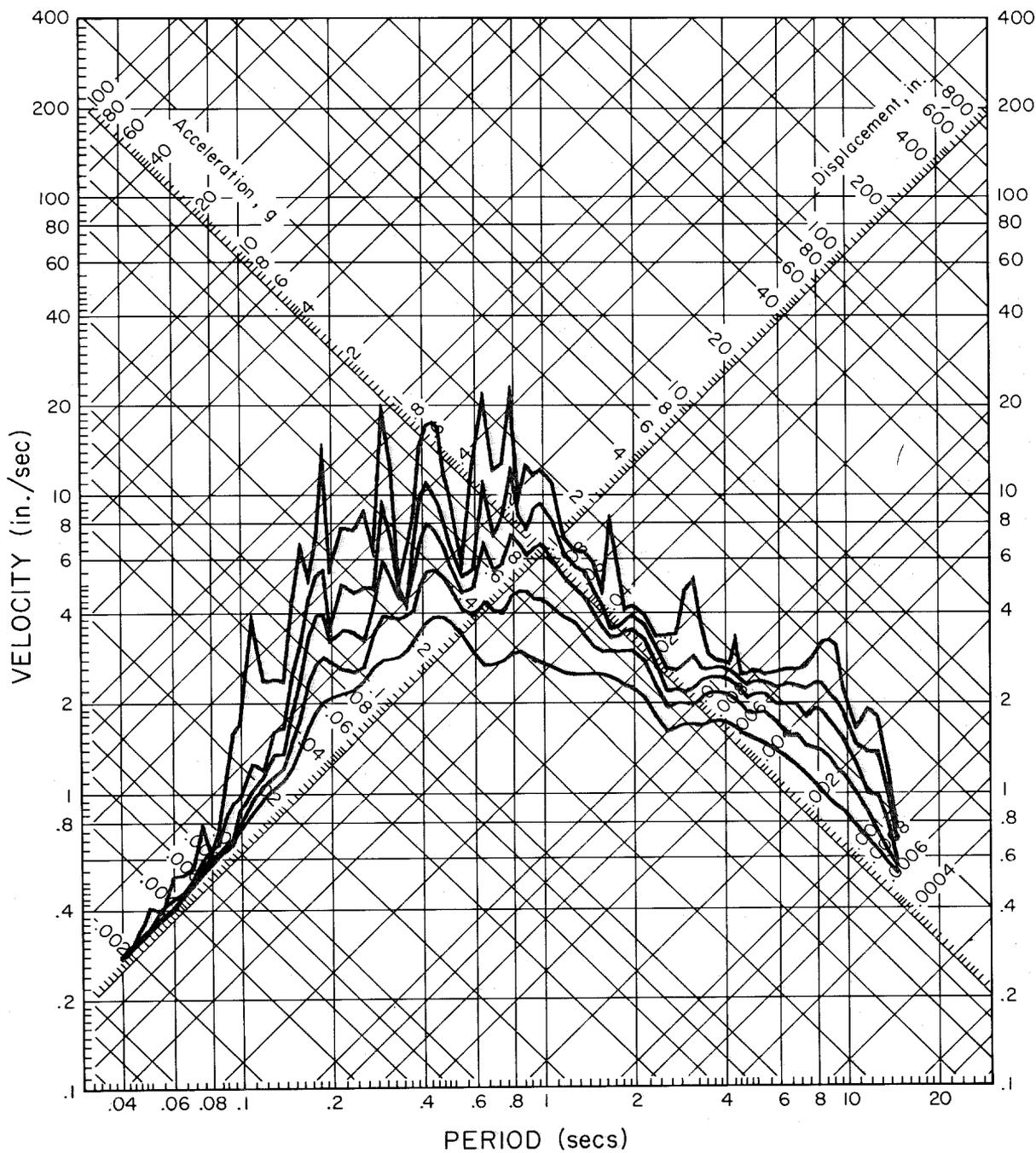


RESPONSE SPECTRUM

NORTHWEST CALIFORNIA EARTHQUAKE OCT 07, 1951 - 2011 PST

111A002 51.001.0 FERDALE CITY HALL COMP N46W

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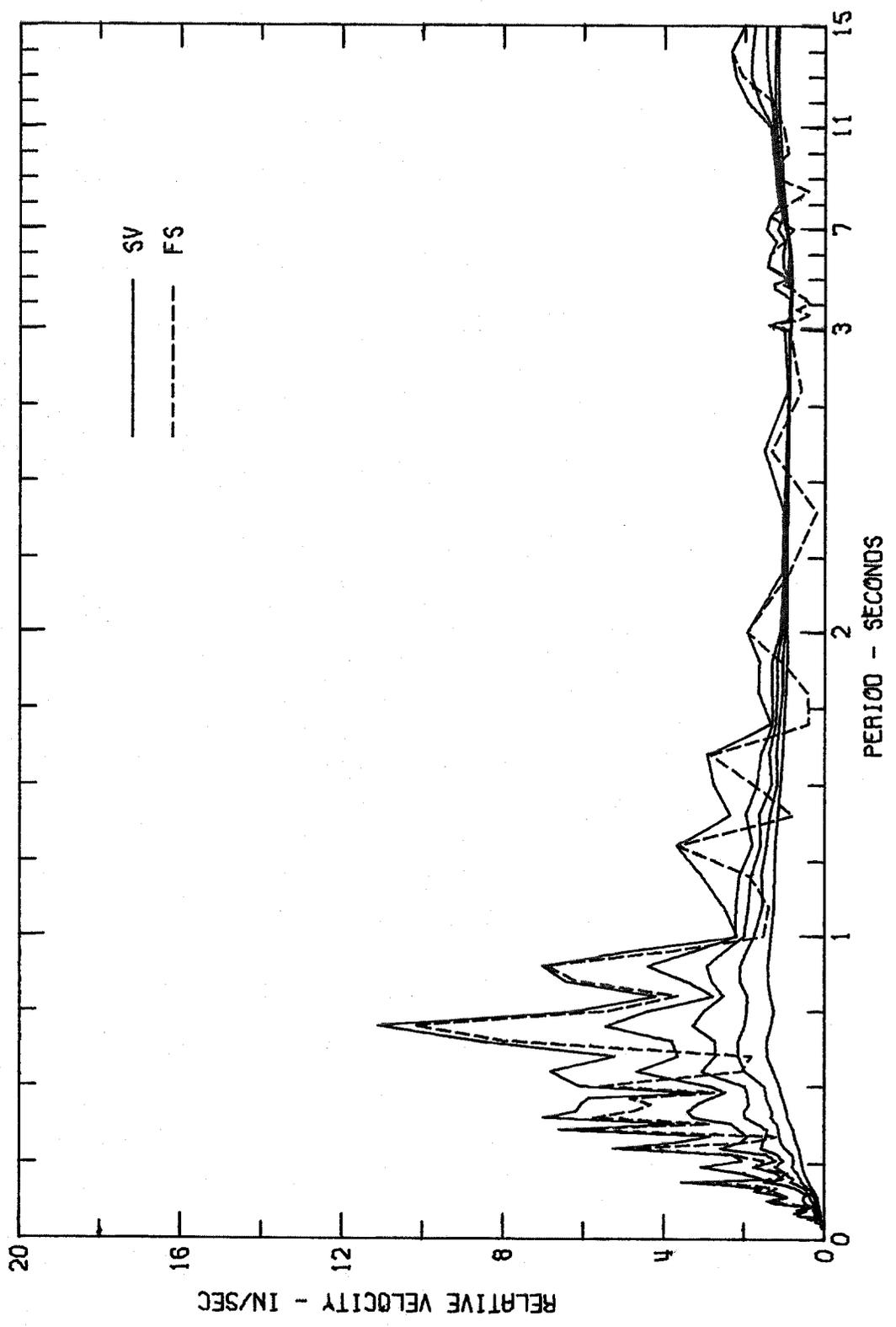


IIIA02 51.001.0 FERDALE CITY HALL COMP N46W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

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0.80	190-1	278-2	218-1	445-3	218-1	153-2	123-1	246-3	120-1	937-3	782-2	150-3	736-2	586-3	522-2	956-4	460-2	376-3	331-2	667-4	295-2			
0.85	625-2	133-2	102-1	189-3	987-2	116-2	880-2	164-3	858-2	932-3	710-2	132-3	689-2	647-3	515-2	939-4	478-2	408-3	331-2	648-4	302-2			
0.90	990-2	181-2	127-1	229-3	126-1	111-2	804-2	140-3	775-2	906-3	697-2	115-3	632-2	681-3	523-2	882-4	475-2	417-3	357-2	613-4	291-2			
0.95	920-2	177-2	123-1	201-3	117-1	136-2	572-2	155-3	904-2	101-2	756-2	115-3	673-2	682-3	555-2	792-4	451-2	429-3	362-2	572-4	283-2			
1.00	108-1	196-2	133-1	201-3	123-1	150-2	105-1	153-3	943-2	109-2	777-2	113-3	689-2	722-3	535-2	759-4	454-2	440-3	348-2	533-4	276-2			
1.10	451-2	192-2	115-1	163-3	110-1	143-2	876-2	121-3	819-2	105-2	657-2	900-4	604-2	732-3	454-2	638-4	418-2	464-3	347-2	466-4	265-2			
1.20	323-2	137-2	788-2	974-4	718-2	121-2	692-2	863-4	636-2	100-2	586-2	719-4	526-2	744-3	452-2	547-4	389-2	485-3	353-2	415-4	254-2			
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1.40	474-2	143-2	694-2	750-4	645-2	123-2	615-2	644-4	554-2	100-2	525-2	529-4	451-2	754-3	420-2	408-4	338-2	560-3	370-2	356-4	251-2			
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1.60	157-2	121-2	518-2	485-4	477-2	108-2	466-2	433-4	425-2	917-3	440-2	369-4	360-2	764-3	427-2	318-4	300-2	638-3	404-2	313-4	250-2			
1.70	823-2	222-2	823-2	788-4	823-2	972-3	476-2	344-4	359-2	905-3	467-2	323-4	334-2	813-3	451-2	302-4	300-2	667-3	422-2	291-4	246-2			
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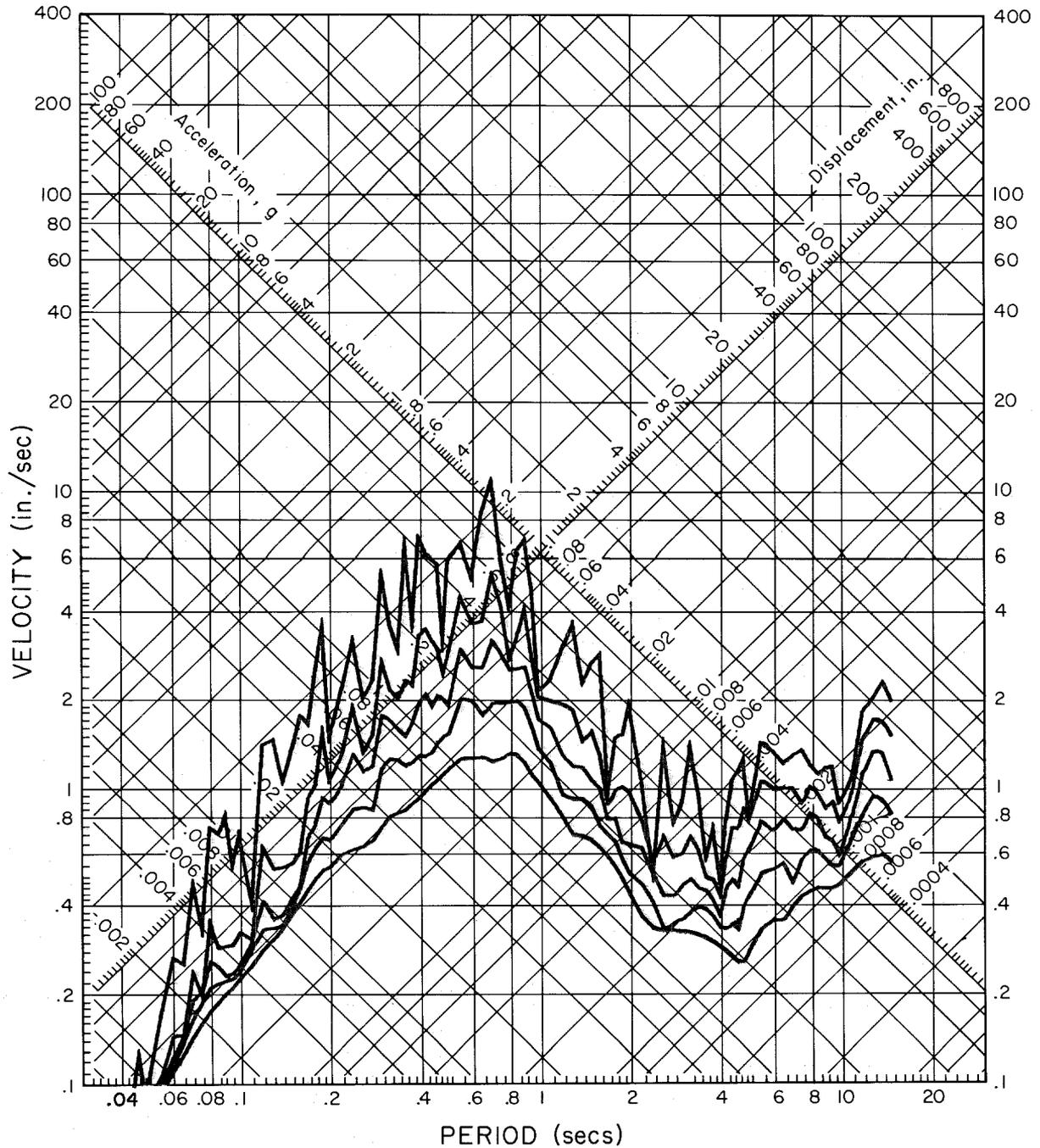


RESPONSE SPECTRUM

NORTHWEST CALIFORNIA EARTHQUAKE OCT 07, 1951 - 2011 PST

111A002 51.001.0 FERNDALE CITY HALL COMP VERT

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

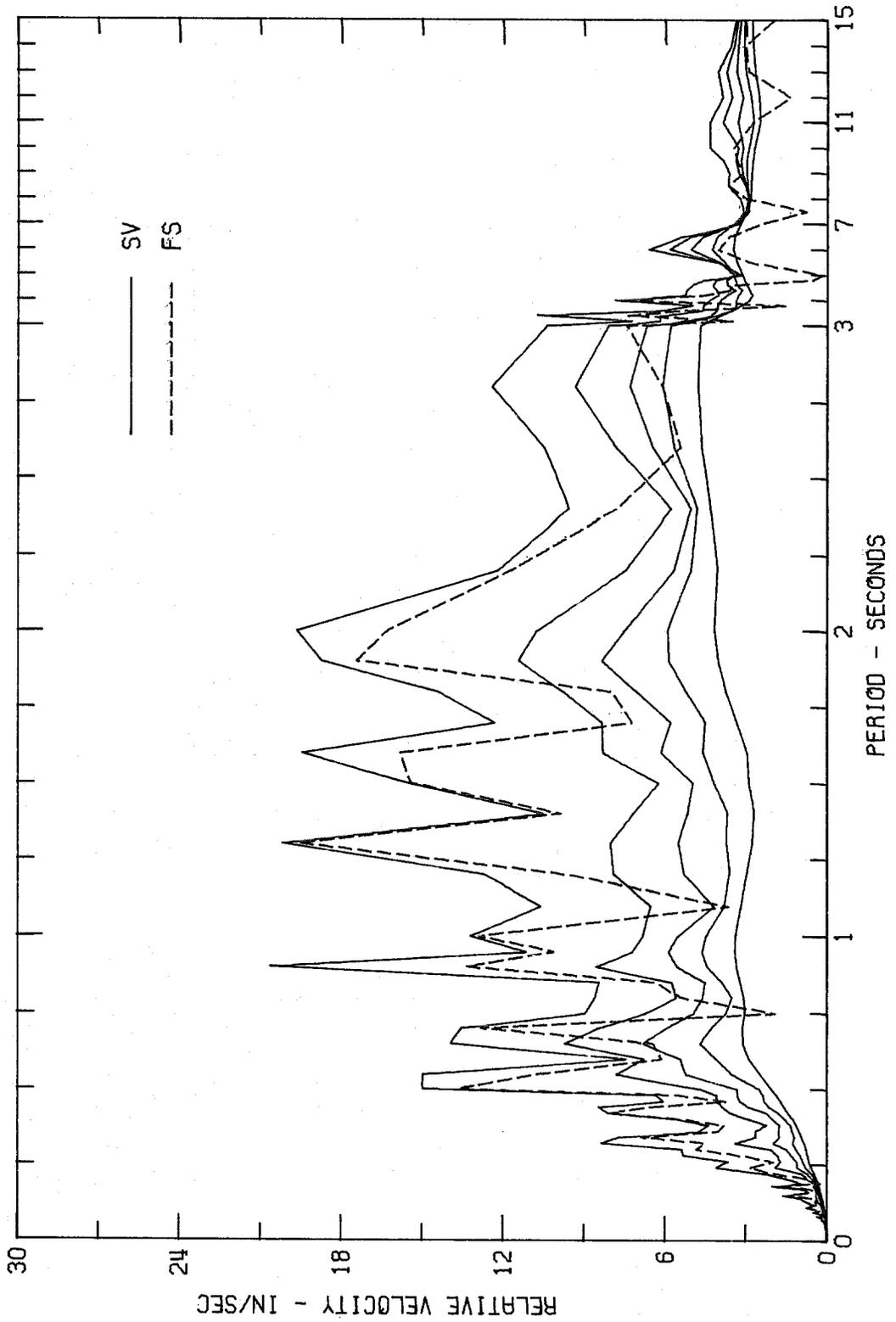


NORTHWEST CALIFORNIA EARTHQUAKE OCT 07, 1951 - 2011 PST
IIIA002 51.001.0 FERNDAL CITY HALL COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT					DAMPING = 2 PERCENT					DAMPING = 5 PERCENT					DAMPING = 10 PERCENT					DAMPING = 20 PERCENT									
	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV
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RELATIVE VELOCITY RESPONSE SPECTRUM
KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT
111A003 52.001.0 PASADENA - CALTECH ATHENAEUM COMP SOOE
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

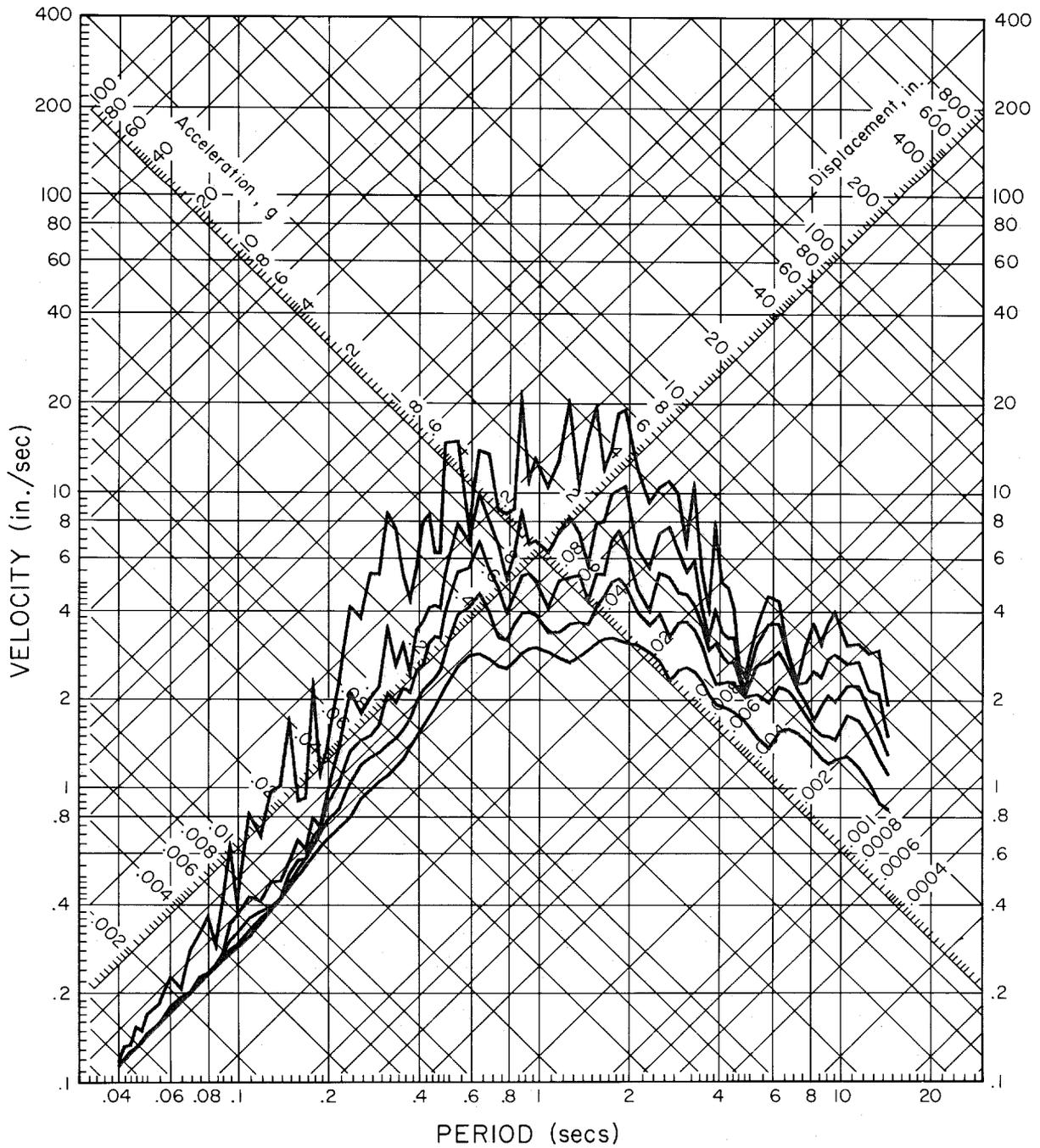


RESPONSE SPECTRUM

KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT

IIIA003 52.001.0 PASADENA - CALTECH ATHENAEUM COMP SODE

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PCT

IIIA003 52.001.0 PASADENA - CALTECH AT-PENNAEUM CCMP SOCE

THE UNITS USED ARE SEC FJR PEK, IN/SEC FOR FS, SV AND PSV, IN FOR SC AND G FOR SA

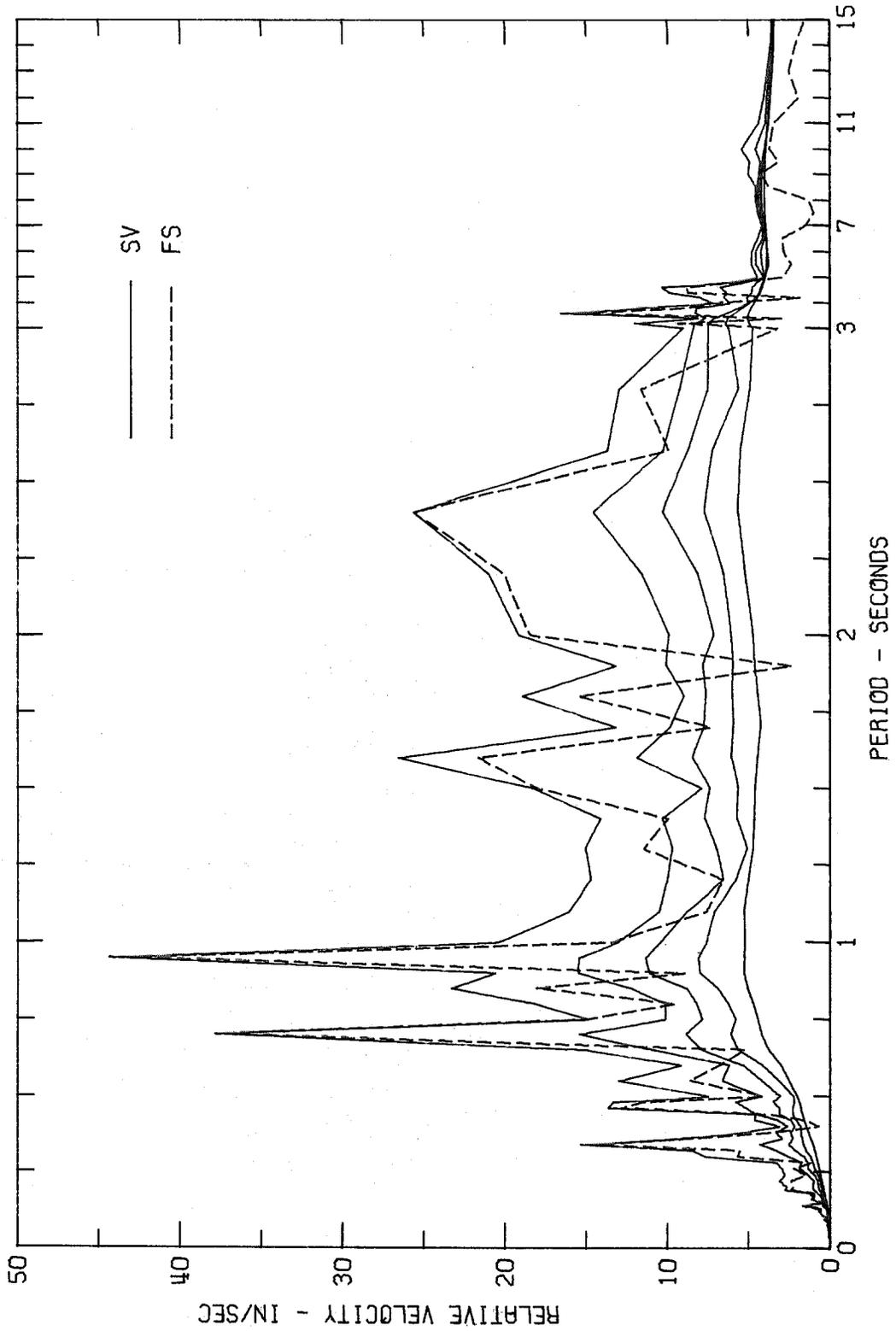
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	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	
O.040	783-5	766-6	163-4	490-4	120-3	744-6	121-4	475-4	116-3	743-6	111-4	475-4	116-3	744-6	989-5	475-4	116-3	743-6	877-5	475-4	116-3	743-6	877-5	475-4	116-3	743-6	877-5	475-4	116-3	743-6
O.042	132-4	912-6	310-4	528-4	130-3	827-6	136-4	479-4	123-3	823-6	122-4	477-4	123-3	822-6	103-4	476-4	123-3	820-6	968-5	475-4	122-3	820-6	968-5	475-4	122-3	820-6	968-5	475-4	122-3	820-6
O.044	233-4	966-6	282-4	510-4	138-3	915-6	146-4	485-4	131-3	908-6	131-4	479-4	125-3	904-6	121-4	477-4	129-3	901-6	107-4	476-4	129-3	901-6	107-4	476-4	129-3	901-6	107-4	476-4	129-3	901-6
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O.260	195-2	160-3	365-2	242-3	386-2	756-4	170-2	114-3	182-2	611-4	109-2	919-4	147-2	506-4	875-3	772-4	122-2	385-4	656-3	618-4	122-2	385-4	656-3	618-4	122-2	385-4	656-3	618-4	122-2	385-4
O.280	319-2	245-3	535-2	315-3	549-2	925-4	925-4	120-3	207-2	685-4	131-2	896-4	153-2	578-4	480-3	775-4	129-2	449-4	710-3	618-4	129-2	449-4	710-3	618-4	129-2	449-4	710-3	618-4	129-2	449-4
O.300	486-2	261-3	537-2	297-3	547-2	108-3	208-2	123-3	226-2	801-4	149-2	923-4	167-2	644-4	114-2	740-4	135-2	514-4	763-3	614-4	135-2	514-4	763-3	614-4	135-2	514-4	763-3	614-4	135-2	514-4
G.320	450-2	444-3	839-2	443-3	871-2	181-3	342-2	181-3	355-2	109-3	199-2	111-3	214-2	725-4	123-2	742-4	143-2	575-4	632-3	599-4	143-2	575-4	632-3	599-4	143-2	575-4	632-3	599-4	143-2	575-4
O.340	600-2	418-3	769-2	370-3	773-2	144-3	262-2	128-3	266-2	107-3	175-2	945-4	199-2	811-4	118-2	729-4	129-4	651-4	530-3	602-4	129-4	651-4	530-3	602-4	129-4	651-4	530-3	602-4	129-4	651-4
O.360	401-2	110-3	471-2	244-3	541-2	181-3	262-2	143-3	316-2	128-3	177-2	945-4	224-2	524-4	127-2	735-4	161-2	732-4	609-4	127-2	732-4	609-4	127-2	732-4	609-4	127-2	732-4	609-4	127-2	732-4
C.380	375-2	269-3	438-2	190-3	444-2	151-3	220-2	107-3	250-2	130-3	174-2	527-4	216-2	106-3	133-2	757-4	176-2	649-4	637-4	140-2	176-2	649-4	637-4	140-2	176-2	649-4	637-4	140-2	176-2	649-4
O.400	547-2	365-3	560-2	233-3	574-2	225-3	294-2	145-3	354-2	164-3	202-2	106-3	258-2	128-3	153-2	831-4	201-2	575-4	661-4	153-2	575-4	661-4	153-2	575-4	661-4	153-2	575-4	661-4	153-2	575-4
O.420	814-2	546-3	814-2	316-3	816-2	252-3	359-2	146-3	377-2	179-3	223-2	104-3	268-2	147-3	173-2	871-4	220-2	575-4	661-4	153-2	575-4	661-4	153-2	575-4	661-4	153-2	575-4	661-4	153-2	575-4
O.440	672-2	606-3	448-2	320-3	866-2	295-3	386-2	159-3	421-2	223-3	292-2	117-3	319-2	162-3	218-2	868-4	231-2	125-3	157-2	665-4	231-2									

IIIIA003 52.001.0 PASADENA - CALTECH ATHENAEUM CCMP S00E

THE UNITS USED ARE SEC FUR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FUR SA

PER	DAMPING = 0 PERCENT				CAMPING = 2 PERCENT				CAMPING = 5 PERCENT				CAMPING = 10 PERCENT				CAMPING = 20 PERCENT				
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	190-2	107-2	893-2	194-3	896-2	820-3	670-2	149-3	687-2	582-3	491-2	106-3	485-2	356-3	372-2	733-4	331-2	317-3	302-2	627-4	265-2
0.80	542-2	110-2	857-2	176-3	865-2	668-3	555-2	107-3	525-2	513-3	459-2	825-4	403-2	414-3	351-2	673-4	325-2	332-3	307-2	576-4	261-2
0.85	635-2	122-2	843-2	172-3	902-2	864-3	574-2	122-3	638-2	633-3	445-2	899-4	468-2	501-3	388-2	122-4	370-2	375-3	320-2	570-4	276-2
0.90	133-1	257-2	206-1	375-3	207-1	125-2	858-2	158-3	876-2	773-3	556-2	582-4	535-2	575-3	444-2	740-4	401-2	420-3	334-2	576-4	293-2
0.95	100-1	168-2	111-1	191-3	111-1	104-2	719-2	118-3	687-2	825-3	586-2	944-4	548-2	610-3	462-2	703-4	403-2	460-3	339-2	570-4	304-2
1.00	125-1	211-2	132-1	215-3	132-1	112-2	681-2	115-3	708-2	820-3	551-2	843-4	515-2	633-3	446-2	664-4	398-2	488-3	337-2	545-4	307-2
1.10	362-2	186-2	105-1	157-3	106-1	113-2	650-2	956-4	645-2	732-3	416-2	621-4	418-2	603-3	378-2	525-4	344-2	519-3	316-2	465-4	296-2
1.20	973-2	248-2	127-1	176-3	130-1	145-2	791-2	103-3	760-2	992-3	530-2	708-4	519-2	660-3	360-2	478-4	345-2	540-3	294-2	433-4	282-2
1.30	156-1	420-2	202-1	254-3	203-1	175-2	803-2	106-3	846-2	110-2	550-2	670-4	532-2	764-3	372-2	472-4	365-2	565-3	274-2	386-4	273-2
1.40	984-2	238-2	105-1	124-3	106-1	165-2	715-2	864-4	743-2	120-2	513-2	632-4	541-2	831-3	367-2	442-4	373-2	637-3	268-2	361-4	286-2
1.50	154-1	370-2	155-1	168-3	155-1	139-2	623-2	635-4	584-2	105-2	495-2	482-4	441-2	878-3	417-2	408-4	368-2	721-3	289-2	359-4	302-2
1.60	151-1	495-2	194-1	199-3	155-1	204-2	831-2	817-4	803-2	135-2	614-2	560-4	547-2	108-2	455-2	443-4	425-2	810-3	295-2	357-4	318-2
1.70	721-2	330-2	123-1	116-3	122-1	220-2	834-2	782-4	816-2	147-2	577-2	524-4	544-2	125-2	445-2	453-4	462-2	889-3	334-2	345-4	328-2
1.80	798-2	407-2	144-1	128-3	142-1	288-2	581-2	912-4	100-1	203-2	708-2	646-4	710-2	147-2	523-2	474-4	513-2	948-3	374-2	331-4	331-2
1.90	174-1	571-2	187-1	161-3	188-1	315-2	114-1	893-4	104-1	230-2	835-2	656-4	762-2	159-2	586-2	450-4	527-2	583-3	403-2	303-4	325-2
2.00	162-1	616-2	196-1	157-3	193-1	341-2	107-1	872-4	107-1	213-2	750-2	548-4	670-2	157-2	591-2	411-4	456-2	101-2	416-2	279-4	315-2
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2.40	776-2	361-2	556-2	641-4	945-2	218-2	576-2	388-4	572-2	156-2	503-2	275-4	408-2	139-2	475-2	255-4	364-2	113-2	431-2	225-4	296-2
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3.20	345-2	349-2	722-2	349-4	686-2	281-2	617-2	281-4	553-2	237-2	538-2	235-4	665-2	190-2	500-2	157-4	374-2	133-2	435-2	151-4	262-2
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3.60	532-2	317-2	628-2	250-4	533-2	236-2	460-2	187-4	413-2	208-2	407-2	167-4	363-2	177-2	350-2	149-4	309-2	134-2	353-2	128-4	234-2
3.80	154-2	251-2	457-2	177-4	415-2	200-2	457-2	142-4	331-2	182-2	403-2	130-4	301-2	157-2	335-2	121-4	260-2	127-2	317-2	113-4	210-2
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4.40	360-2	342-2	518-2	181-4	485-2	231-2	410-2	122-4	330-2	190-2	338-2	101-4	271-2	164-2	315-2	501-5	234-2	132-2	266-2	668-5	189-2
4.60	350-2	302-2	453-2	146-4	413-2	247-2	424-2	117-4	331-2	199-2	370-2	577-5	272-2	168-2	332-2	850-5	229-2	134-2	256-2	813-5	184-2
4.80	521-2	201-2	454-2	892-5	263-2	185-2	408-2	840-5	247-2	180-2	371-2	810-5	236-2	166-2	340-2	776-5	217-2	135-2	309-2	758-5	177-2
5.00	142-3	194-2	317-2	794-5	243-2	175-2	327-2	719-5	220-2	166-2	345-2	691-5	209-2	165-2	342-2	715-5	208-2	136-2	313-2	705-5	170-2
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6.00	403-2	438-2	663-2	124-4	458-2	360-2	586-2	597-5	367-2	263-2	509-2	748-5	296-2	189-2	426-2	559-5	158-2	134-2	348-2	447-5	130-2
6.50	362-2	456-2	536-2	110-4	441-2	381-2	501-2	925-5	368-2	306-2	459-2	748-5	276-2	233-2	406-2	580-5	225-2	163-2	341-2	430-5	157-2
7.00	245-2	324-2	337-2	676-5	591-2	312-2	332-2	653-5	280-2	286-2	294-2	607-5	297-2	243-2	347-2	534-5	218-2	180-2	321-2	430-5	161-2
7.50	748-3	279-2	309-2	507-5	234-2	214-2	268-2	500-5	230-2	262-2	294-2	485-5	219-2	235-2	301-2	498-5	197-2	186-2	296-2	400-5	156-2
8.00	252-2	395-2	322-2	631-5	310-2	291-2	289-2	476-5	233-2	250-2	287-2	408-5	156-2	227-2	291-2	394-5	176-2	187-2	282-2	373-5	147-2
8.50	367-2	497-2	368-2	704-5	368-2	345-2	303-2	489-5	255-2	234-2	293-2	333-5	173-2	219-2	294-2	341-5	162-2	186-2	280-2	341-5	131-2
9.00	313-2	445-2	362-2	566-5	313-2	347-2	329-2	439-5	242-2	276-2	315-2	353-5	194-2	215-2	258-2	308-5	153-2	183-2	278-2	312-5	128-2
9.50	335-2	557-2	385-2	631-5	368-2	424-2	338-2	461-5	280-2	318-2	319-2	362-5	210-2	230-2	298-2	292-5	152-2	165-2	274-2	300-5	123-2
10.00	345-2	645-2	435-2	659-5	405-2	462-2	327-2	473-5	290-2	317-2	310-2	328-5	199-2	235-2	290-2	275-5	148-2	202-2	268-2	256-5	127-2
11.00	275-2	545-2	435-2	421-5	311-2	472-2	386-2	400-5	269-2	357-2	332-2	343-5	226-2	315-2	271-2	228-2	179-2	228-2	248-2	279-5	130-2
12.00	136-2	603-2	386-2	426-5	216-2	524-2	352-2	373-5	274-2	432-2	312-2	313-5	226-2	325-2	281-2	252-5	172-2	227-2	252-2	251-5	119-2
13.00	291-2	603-2	405-2	665-5	291-2	452-2	373-2	274-5	218-2	384-2	335-2	241-5	185-2	309-2	300-2	209-5	149-2	218-2	267-2	220-5	105-2
14.00	306-2	605-2	354-2	349-5	300-2	474-2	343-2	247-5	212-2	351-2	323-2	189-5	157-2	284-2	306-2	162-5	127-2	201-2	274-2	189-5	904-3
15.00	194-2	464-2	337-2	211-5	194-2	362-2	330-2	165-5	151-2	314-2	320-2	150-5	151-2	270-2	304-2	140-5	113-2	205-2	277-2	162-5	862-3

RELATIVE VELOCITY RESPONSE SPECTRUM
KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT
IIIA003 52.001.0 PASADENA - CALTECH ATHENAEUM COMP S90W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

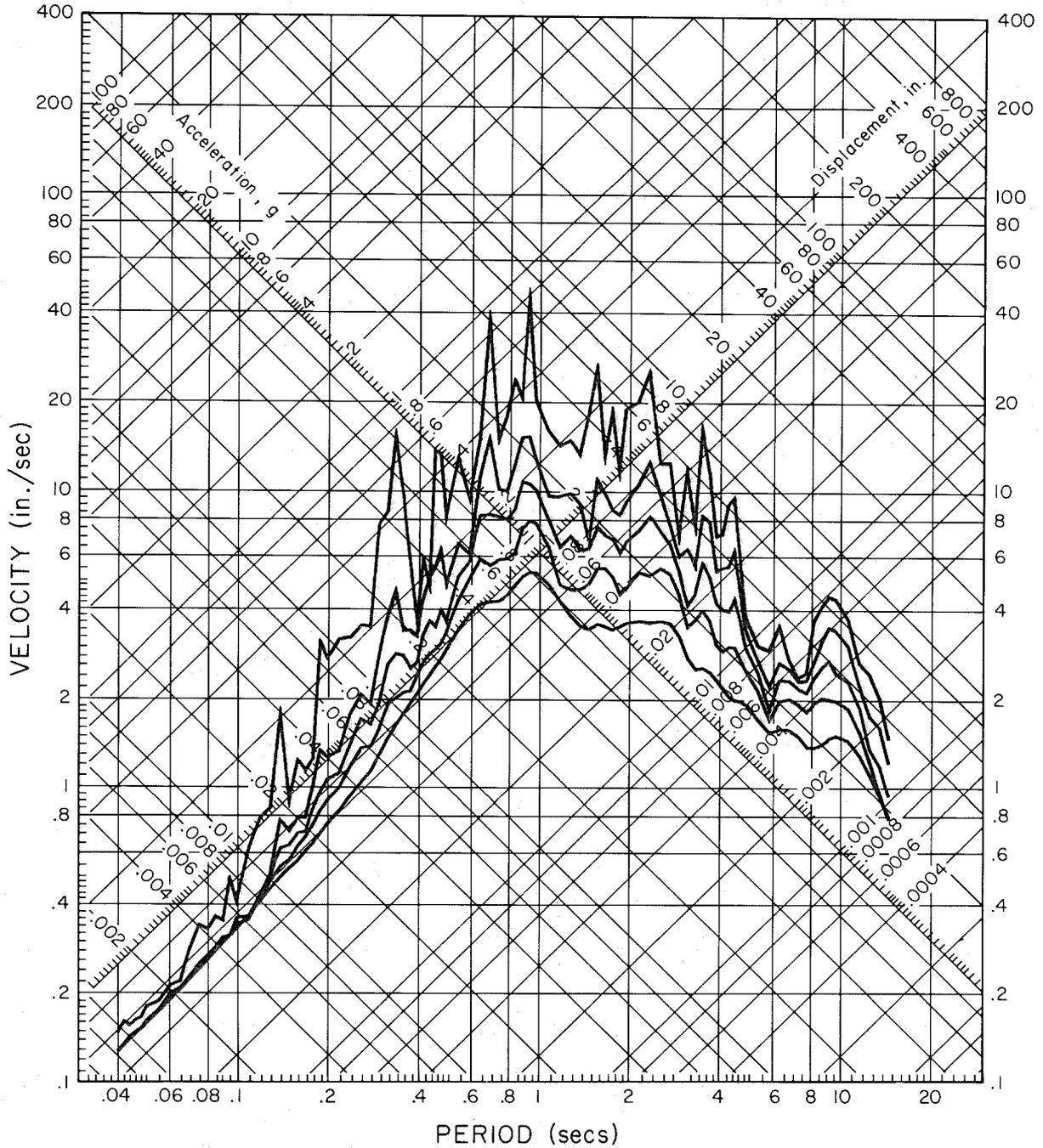


RESPONSE SPECTRUM

KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT

IIIA003 52.001.0 PASADENA - CALTECH ATHENAEUM COMP S90W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - C453 PCT
IIIA003 52.001.0 PASADENA - CALTECH ATHENAEUM CCMP S90W

THE UNITS USED ARE SEC FUR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

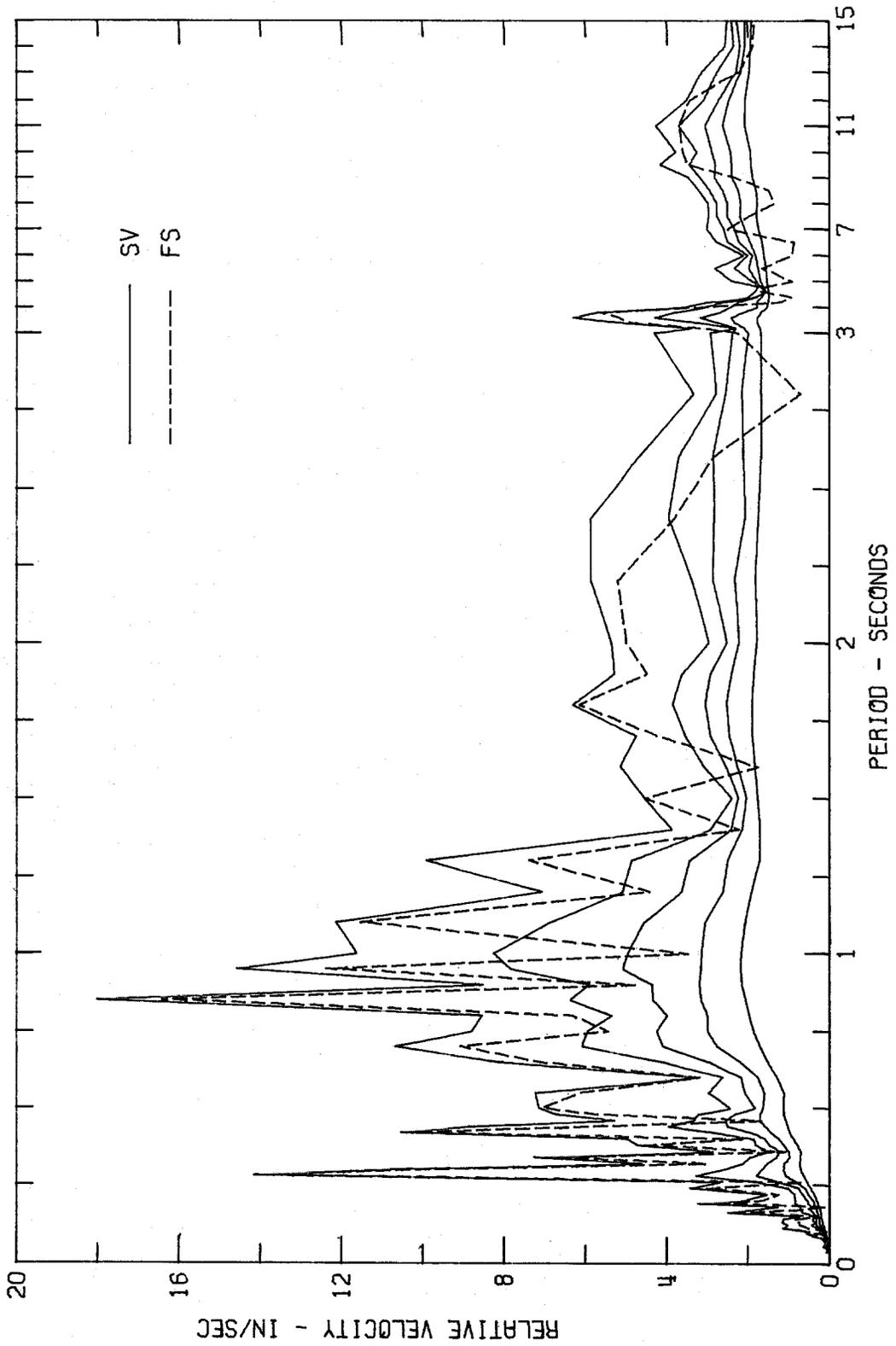
PER	CAMPING = 0 PERCENT				CAMPING = 2 PERCENT				CAMPING = 5 PERCENT				DAMPING = 10 PERCENT				DAMPING = 20 PERCENT				
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	356-4	568-6	440-4	619-4	152-3	836-6	106-4	534-4	131-3	834-6	953-5	532-4	131-3	835-6	939-5	533-4	131-3	833-6	926-5	533-4	130-3
0.042	378-4	111-5	515-4	645-4	166-3	526-6	113-4	537-4	138-3	922-6	103-4	535-4	138-3	921-6	103-4	534-4	137-3	915-6	102-4	533-4	137-3
0.044	270-4	112-5	406-4	595-4	160-3	112-5	133-4	545-4	147-3	101-5	116-4	538-4	145-3	101-5	114-4	535-4	144-3	100-5	112-4	533-4	144-3
0.046	320-4	123-5	350-4	597-4	169-3	112-5	152-4	542-4	153-3	111-5	132-4	536-4	151-3	110-5	127-4	534-4	151-3	110-5	124-4	533-4	150-3
0.048	285-4	131-5	378-4	585-4	172-3	120-5	173-4	534-4	157-3	120-5	140-4	533-4	157-3	119-5	136-4	532-4	156-3	119-5	136-4	532-4	156-3
0.050	588-4	148-5	809-4	608-4	186-3	132-5	184-4	543-4	167-3	130-5	162-4	535-4	164-3	130-5	157-4	533-4	163-3	129-5	150-4	532-4	163-3
0.055	465-4	170-5	707-4	577-4	195-3	159-5	242-4	538-4	182-3	158-5	215-4	537-4	181-3	157-5	198-4	532-4	179-3	157-5	186-4	530-4	179-3
0.060	716-4	209-5	103-3	596-4	219-3	156-5	320-4	558-4	206-3	190-5	267-4	541-4	199-3	168-5	238-4	534-4	157-3	187-5	226-4	522-4	196-3
0.065	591-4	236-5	627-4	571-4	228-3	223-5	430-4	541-4	216-3	221-5	345-4	536-4	214-3	221-5	287-4	535-4	213-3	220-5	270-4	533-4	212-3
0.070	944-4	325-5	136-3	687-4	295-3	263-5	443-4	550-4	236-3	255-5	377-4	541-4	232-3	257-5	342-4	537-4	230-3	256-5	318-4	531-4	230-3
0.075	111-4	420-5	141-3	765-4	352-3	310-5	581-4	583-4	259-3	302-5	481-4	545-4	253-3	299-5	426-4	545-4	250-3	297-5	369-4	541-4	248-3
0.080	231-4	433-5	123-3	692-4	340-3	352-5	709-4	563-4	276-3	350-5	605-4	555-4	275-3	345-5	519-4	551-4	271-3	340-5	434-4	546-4	267-3
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0.095	238-3	759-5	354-3	861-4	502-3	491-5	123-4	596-4	324-3	491-5	795-4	557-4	323-3	493-5	743-4	559-4	326-3	488-5	655-4	555-4	323-3
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0.120	607-3	154-4	646-3	109-3	608-3	850-5	164-3	603-4	445-3	832-5	135-3	591-4	435-3	822-5	126-3	583-4	430-3	808-5	111-3	576-4	423-3
0.130	524-3	181-4	696-3	109-3	877-3	105-4	202-3	663-4	528-3	107-4	182-3	655-4	520-3	102-4	152-3	624-4	496-3	969-5	136-3	591-4	468-3
0.140	163-2	402-4	171-2	210-3	180-2	176-4	447-3	925-4	726-3	142-4	273-3	745-4	637-3	123-4	193-3	651-4	555-3	114-4	166-3	601-4	512-3
0.150	347-3	217-4	573-3	990-4	912-3	173-4	363-3	789-4	808-3	183-4	395-3	735-4	719-3	165-4	318-3	668-4	651-3	148-4	247-3	607-4	583-3
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0.170	949-3	315-4	105-2	111-3	116-2	218-4	557-3	775-4	808-3	156-4	446-3	654-4	726-3	189-4	376-3	675-4	701-3	170-4	289-3	618-4	629-3
0.180	964-3	369-4	120-2	116-3	129-2	297-4	755-3	937-4	103-2	248-4	559-3	786-4	868-3	220-4	442-3	710-4	768-3	191-4	332-3	621-4	667-3
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0.340	147-1	843-3	154-1	746-3	155-1	255-3	437-2	226-3	473-2	157-3	254-2	135-3	291-2	112-3	162-2	101-3	207-2	505-4	102-2	829-4	168-2
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0.700	377-1	423-2	379-1	884-3	380-1	170-2	154-1	357-3	153-1	950-3	687-2	195-3	852-2	635-3	610-2	136-3	574-2	462-3	421-2	106-3	433-2

IIIIA003 52.001.0 PASADENA - CALTECH ATHENAEUM CCMP S90W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT				DAMPING = 2 PERCENT				DAMPING = 5 PERCENT				DAMPING = 10 PERCENT				DAMPING = 20 PERCENT				
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0.80	947-2	232-2	182-1	372-3	182-1	129-2	101-1	206-3	101-1	104-2	819-2	168-3	821-2	770-3	626-2	125-3	605-2	581-3	470-2	988-4	456-2
0.85	180-1	325-2	233-1	460-3	240-1	165-2	122-1	239-3	125-1	120-2	875-2	171-3	853-2	861-3	688-2	123-3	637-2	667-3	505-2	101-3	493-2
0.90	893-2	298-2	205-1	376-3	208-1	221-2	155-1	279-3	154-1	156-2	111-1	199-3	109-1	109-2	803-2	140-3	765-2	755-3	527-2	102-3	527-2
0.95	432-1	674-2	444-1	764-3	446-1	235-2	154-1	266-3	155-1	162-2	113-1	185-3	107-1	122-2	810-2	141-3	811-2	823-3	525-2	100-3	544-2
1.00	135-1	325-2	204-1	333-3	204-1	205-2	130-1	210-3	128-1	163-2	104-1	167-3	102-1	126-2	709-2	132-3	755-2	862-3	522-2	958-4	542-2
1.10	755-2	284-2	160-1	240-3	162-1	172-2	104-1	145-3	983-2	142-2	876-2	121-3	816-2	116-2	707-2	100-3	683-2	865-3	526-2	810-4	494-2
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1.50	180-1	438-2	183-1	199-3	183-1	165-2	787-2	753-4	693-2	156-2	738-2	717-4	657-2	118-2	562-2	554-4	497-2	834-3	456-2	422-4	349-2
1.60	216-1	667-2	265-1	266-3	262-1	283-2	118-1	113-3	111-1	196-2	848-2	791-4	773-2	142-2	604-2	583-4	560-2	927-3	442-2	406-4	364-2
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1.80	155-1	538-2	189-1	169-3	187-1	252-2	895-2	797-4	881-2	202-2	762-2	644-4	707-2	149-2	600-2	487-4	525-2	959-3	442-2	350-4	348-2
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2.00	184-1	611-2	191-1	156-3	192-1	299-2	589-2	760-4	540-2	220-2	711-2	567-4	692-2	153-2	601-2	401-4	482-2	116-2	473-2	334-4	366-2
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3.40	292-2	415-2	808-2	370-4	774-2	307-2	763-2	272-4	568-2	250-2	704-2	222-4	462-2	204-2	623-2	185-4	377-2	139-2	504-2	151-4	258-2
3.60	161-1	934-2	165-1	737-4	163-1	484-2	831-2	382-4	845-2	335-2	631-2	266-4	584-2	231-2	582-2	187-4	403-2	149-2	496-2	131-4	261-2
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4.40	877-2	712-2	103-1	344-4	573-2	471-2	675-2	228-4	643-2	324-2	472-2	158-4	443-2	223-2	418-2	111-4	305-2	148-2	412-2	937-5	203-2
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4.80	281-2	308-2	441-2	125-4	384-2	277-2	401-2	113-4	348-2	242-2	400-2	101-4	305-2	203-2	395-2	505-5	255-2	156-2	393-2	863-5	196-2
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6.00	282-2	285-2	476-2	811-5	299-2	216-2	453-2	616-5	226-2	179-2	423-2	521-5	188-2	166-2	383-2	513-5	173-2	150-2	382-2	611-5	157-2
6.50	292-2	372-2	438-2	900-5	359-2	281-2	405-2	682-5	271-2	246-2	396-2	606-5	237-2	209-2	386-2	539-5	202-2	168-2	386-2	501-5	162-2
7.00	146-2	307-2	415-2	642-5	276-2	289-2	411-2	806-5	259-2	264-2	406-2	565-5	237-2	229-2	400-2	517-5	205-2	179-2	392-2	467-5	161-2
7.50	558-3	288-2	443-2	525-5	241-2	281-2	435-2	513-5	236-2	265-2	425-2	456-5	222-2	235-2	412-2	470-5	156-2	183-2	397-2	434-5	153-2
8.00	132-2	322-2	456-2	514-5	252-2	302-2	446-2	435-5	237-2	271-2	434-2	452-5	216-2	236-2	419-2	422-5	185-2	175-2	400-2	354-5	140-2
8.50	370-2	510-2	453-2	722-5	377-2	372-2	444-2	528-5	275-2	328-2	433-2	473-5	243-2	270-2	415-2	414-5	159-2	190-2	400-2	354-5	140-2
9.00	420-2	601-2	500-2	759-5	419-2	459-2	452-2	581-5	320-2	373-2	424-2	489-5	264-2	256-2	413-2	408-5	206-2	205-2	358-2	359-5	150-2
9.50	311-2	684-2	489-2	775-5	452-2	538-2	425-2	611-5	356-2	416-2	412-2	486-5	276-2	309-2	405-2	382-5	204-2	228-2	394-2	363-5	143-2
10.00	365-2	704-2	542-2	720-5	442-2	552-2	453-2	566-5	347-2	399-2	397-2	413-5	251-2	322-2	335-2	373-5	202-2	245-2	369-2	359-5	154-2
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12.00	185-2	516-2	403-2	367-5	270-2	435-2	363-2	510-5	228-2	367-2	364-2	265-5	192-2	302-2	361-2	263-5	158-2	251-2	368-2	294-5	131-2
13.00	248-2	513-2	382-2	310-5	247-2	369-2	369-2	223-5	178-5	177-5	350-2	177-5	137-2	257-2	352-2	202-5	124-2	232-2	361-2	254-5	112-2
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RELATIVE VELOCITY RESPONSE SPECTRUM
KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT
IIIA003 52.001.0 PASADENA - CALTECH ATHENAEUM COMP VERT
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

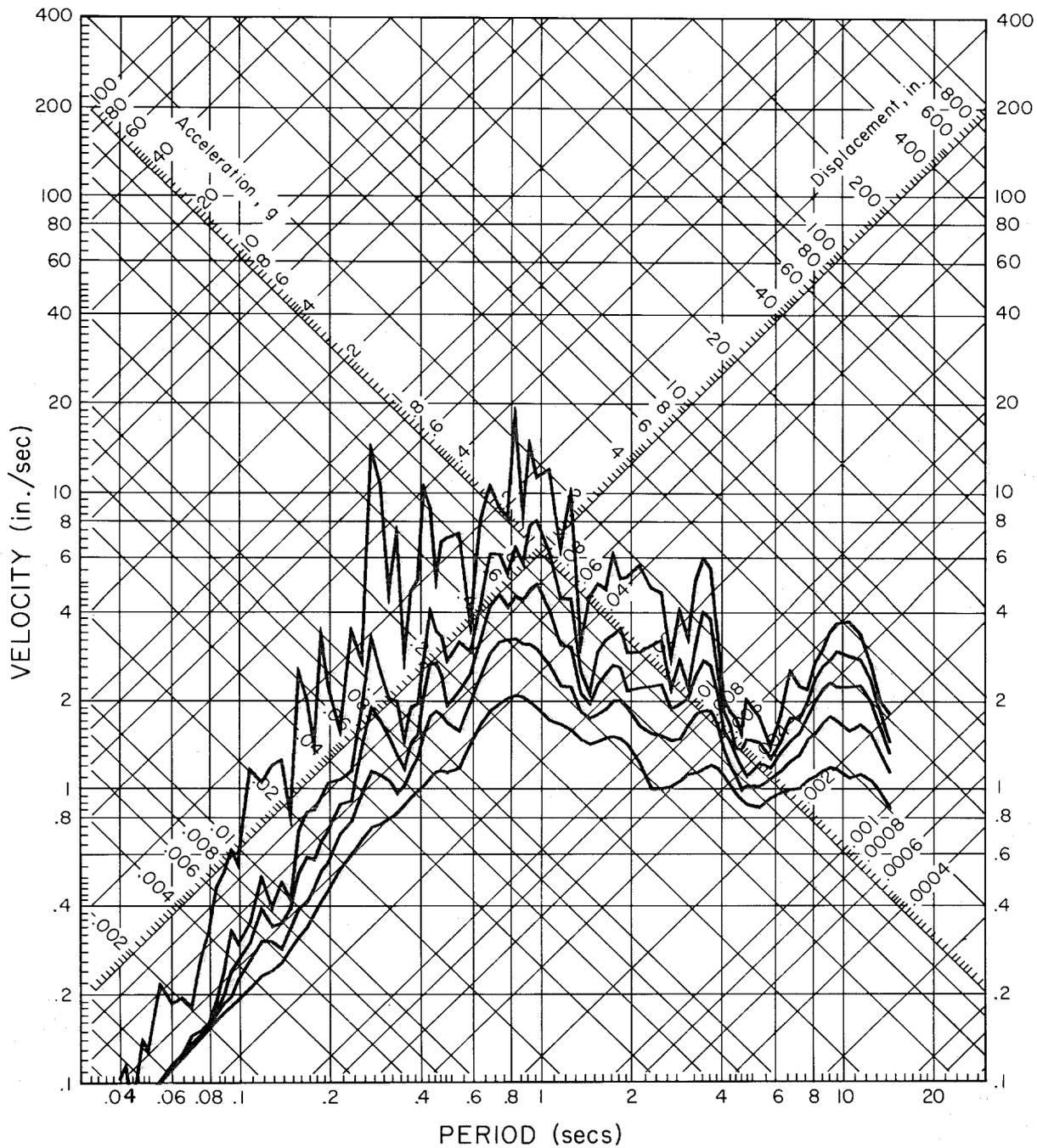


RESPONSE SPECTRUM

KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT

IIIA003 52.001.0 PASADENA - CALTECH ATHENAEUM COMP VERT

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

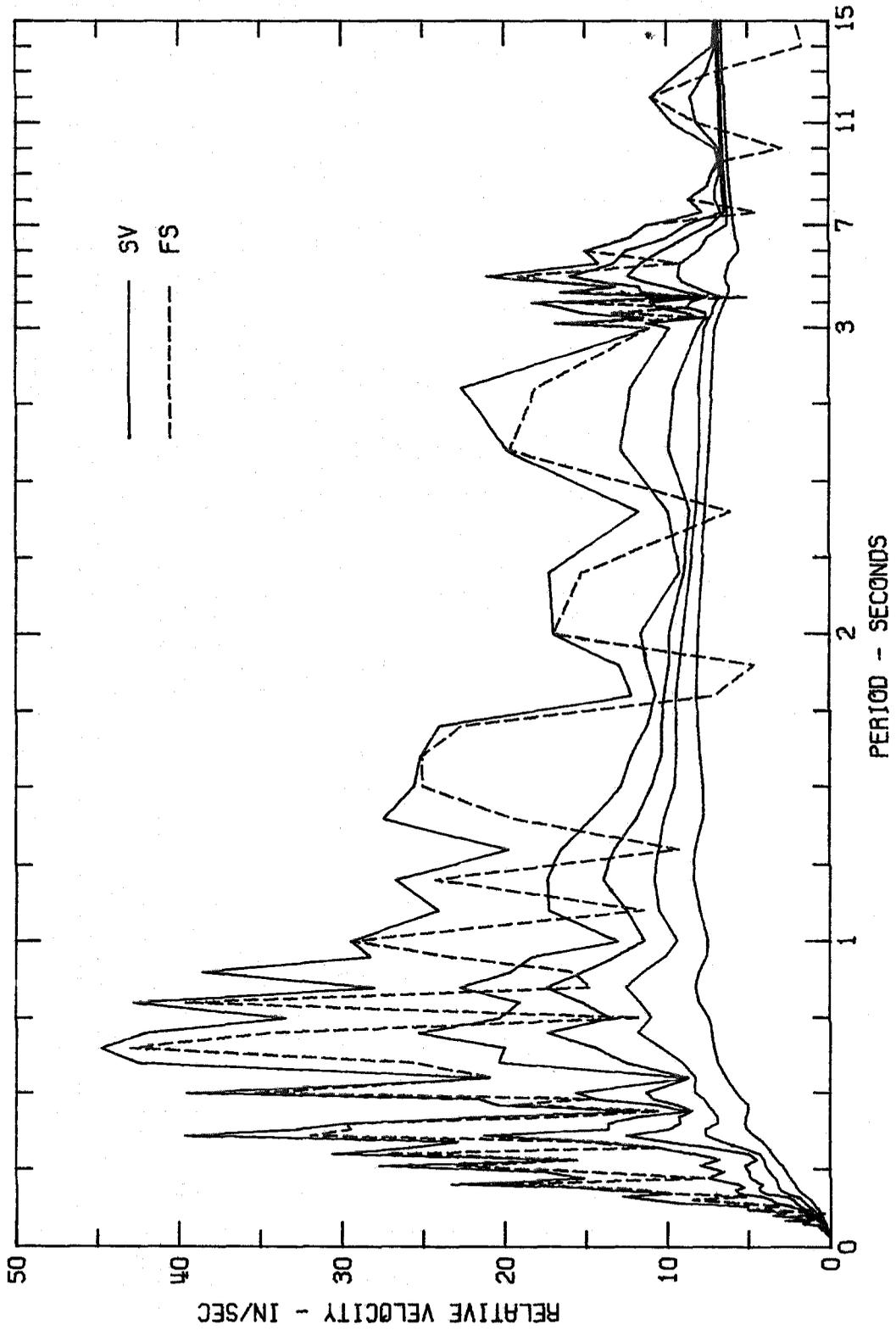
PER	DAMPING = 0 PERCENT				DAMPING = 2 PERCENT				DAMPING = 5 PERCENT				DAMPING = 10 PERCENT				DAMPING = 20 PERCENT				
	FS	SD	SV	SA	FSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	127-4	675-6	617-4	431-4	106-3	472-6	182-4	302-4	299-4	734-4	468-6	138-4	299-4	735-4	468-6	118-4	295-4	736-4			
0.042	399-4	782-6	576-4	453-4	117-3	529-6	173-4	306-4	301-4	778-4	518-6	147-4	300-4	776-4	518-6	129-4	300-4	775-4			
0.044	168-4	594-6	304-4	313-4	848-4	586-6	175-4	309-4	833-4	825-4	572-6	157-4	302-4	817-4	570-6	159-4	301-4	814-4			
0.046	210-4	793-6	458-4	383-4	108-3	642-6	183-4	310-4	877-4	864-4	628-6	171-4	303-4	857-4	625-6	152-4	302-4	854-4			
0.048	670-4	109-5	733-4	485-4	143-3	688-6	219-4	305-4	900-4	857-4	688-6	166-4	303-4	896-4	683-6	160-4	303-4	894-4			
0.050	403-4	104-5	577-4	427-4	131-3	727-6	239-4	297-4	913-4	925-4	742-6	195-4	304-4	933-4	743-6	183-4	304-4	934-4			
0.055	141-3	194-5	144-3	657-4	222-3	920-6	299-4	311-4	105-3	926-6	266-4	246-4	311-4	104-3	905-6	230-4	308-4	103-3			
0.060	834-4	182-5	119-3	519-4	191-3	113-5	364-4	322-4	118-3	112-5	331-4	307-4	315-4	116-3	109-5	280-4	311-4	114-3			
0.065	112-3	207-5	121-3	502-4	200-3	133-5	471-4	322-4	128-3	132-5	390-4	320-4	318-4	126-3	128-5	338-4	314-4	124-3			
0.070	120-3	207-5	128-3	432-4	186-3	166-5	664-4	346-4	149-3	156-5	503-4	326-4	325-4	140-3	153-5	431-4	324-4	149-3			
0.075	125-3	323-5	159-3	588-4	271-3	185-5	668-4	336-4	155-3	179-5	517-4	325-4	324-4	149-3	173-5	399-4	316-4	133-3			
0.080	127-3	430-5	259-3	688-4	338-3	210-5	882-4	335-4	165-3	206-5	691-4	329-4	330-4	161-3	195-5	543-4	323-4	150-3			
0.085	403-3	648-5	437-3	918-4	479-3	266-5	119-3	378-4	197-3	248-5	814-4	351-4	340-4	176-3	227-5	630-4	326-4	168-3			
0.090	316-3	773-5	405-3	977-4	540-3	356-5	166-3	450-4	248-3	297-5	124-3	374-4	347-4	192-3	256-5	740-4	327-4	175-3			
0.095	372-3	962-5	556-3	109-3	636-3	511-5	258-3	577-4	338-3	375-5	169-3	426-4	425-4	203-3	284-5	863-4	327-4	180-3			
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0.110	504-3	208-4	115-2	176-3	119-2	635-5	279-3	538-4	362-3	544-5	221-3	466-4	412-4	270-3	381-5	121-3	337-4	217-3			
0.120	728-3	205-4	101-2	145-3	107-2	981-5	440-3	692-4	513-3	767-5	319-3	545-4	429-4	312-3	456-5	147-3	333-4	238-3			
0.130	745-3	255-4	117-2	154-3	123-2	835-5	349-3	507-4	403-3	723-5	318-3	443-4	390-4	311-3	515-5	167-3	327-4	248-3			
0.140	859-3	285-4	112-2	148-3	128-2	110-4	411-3	573-4	494-3	802-5	314-3	419-4	379-4	347-3	705-5	198-3	327-4	264-3			
0.150	264-4	737-3	888-4	181-3	101-4	338-3	62-4	426-3	659-5	301-3	439-4	406-3	406-3	286-3	414-4	404-3	327-4	293-3			
0.160	225-2	652-4	251-2	260-3	256-2	189-4	668-3	754-4	743-3	136-4	400-3	545-4	536-3	103-4	286-3	414-4	404-3	327-4			
0.170	824-3	556-4	157-2	197-3	205-2	231-4	712-3	820-4	856-3	163-4	468-3	578-4	603-3	114-4	305-3	414-4	423-3	342-4			
0.180	667-4	408-4	125-2	128-3	142-2	248-4	733-3	786-4	866-3	169-4	451-3	538-4	437-4	477-3	111-4	248-3	360-4	388-3			
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0.200	163-2	730-4	212-2	186-3	229-2	339-4	640-3	867-4	106-2	234-4	542-3	598-4	737-3	183-4	403-3	485-4	576-3	468-4			
0.220	123-2	560-4	153-2	118-3	159-2	386-4	657-3	817-4	110-2	317-4	667-3	675-4	906-3	252-4	515-3	550-4	721-3	192-4			
0.240	302-2	135-3	346-2	239-3	353-2	448-4	103-2	796-4	117-2	356-4	771-3	629-4	932-3	302-4	557-3	543-4	793-3	235-4			
0.260	668-3	115-3	267-2	174-3	278-2	795-4	179-2	121-3	193-2	585-4	127-2	903-4	141-2	406-4	834-3	615-4	982-3	285-4			
0.280	140-1	635-3	141-1	829-3	142-1	148-3	330-2	195-3	333-2	861-4	181-2	114-3	193-2	522-4	108-2	709-4	117-2	337-4			
0.300	995-2	520-3	107-1	591-3	108-1	122-3	261-2	138-3	256-2	825-4	166-2	934-4	172-2	542-4	112-2	633-4	113-2	370-4			
0.320	301-2	235-3	459-2	235-3	463-2	105-3	211-2	105-3	207-2	775-4	151-2	782-4	152-2	553-4	111-2	560-4	108-2	412-4			
0.340	672-2	397-3	728-2	351-3	734-2	109-3	194-2	970-4	203-2	716-4	130-2	636-4	132-2	531-4	472-3	474-4	582-3	456-4			
0.360	107-2	162-3	285-2	128-3	283-2	848-4	148-2	666-4	148-2	682-4	121-2	531-4	119-2	558-4	999-3	483-4	104-2	516-4			
0.380	465-2	289-3	475-2	204-3	478-2	118-3	181-2	836-4	195-2	888-4	148-2	720-4	146-2	720-4	112-2	518-4	119-2	580-4			
0.400	213-2	330-3	458-2	211-3	519-2	126-3	185-2	814-4	199-2	100-3	157-2	838-4	124-2	838-4	124-2	543-4	131-2	637-4			
0.420	104-1	706-3	105-1	409-3	105-1	193-3	283-2	112-3	289-2	144-3	191-2	833-4	215-2	105-3	143-2	621-4	157-2	702-4			
0.440	577-2	631-3	884-2	333-3	501-2	289-3	397-2	153-3	412-2	191-3	252-2	102-3	273-2	126-3	157-2	681-4	181-2	784-4			
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0.480	580-2	532-3	675-2	236-3	697-2	257-3	322-2	114-3	337-2	187-3	231-2	833-4	245-2	138-3	170-2	624-4	181-2	898-4			
0.500	706-2	572-3	716-2	234-3	719-2	221-3	242-2	909-4	278-2	155-3	182-2	644-4	195-2	136-3	162-2	567-4	170-2	924-4			
0.550	610-2	653-3	722-2	220-3	746-2	283-3	297-2	961-4	324-2	193-3	207-2	653-4	220-2	140-3	159-2	485-4	160-2	105-3			
0.600	319-2	348-3	328-2	989-4	364-2	285-3	262-2	811-4	298-2	241-3	216-2	688-4	252-2	192-3	176-2	554-4	201-2	136-3			
0.650	717-2	858-3	818-2	207-3	829-2	446-3	410-2	108-3	431-2	340-3	295-2	823-4	329-2	255-3	215-2	628-4	247-2	175-3			
0.700	909-2	119-2	107-1	250-3	107-1	707-3	635-2	147-3	635-2	477-3	411-2	999-4	428-2	331-3	276-2	702-4	297-2	210-3			

IIIIA003 52.001.0 PASADENA - CALTECH ATHENAEM CGMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT			DAMPING = 2 PERCENT			DAMPING = 5 PERCENT			DAMPING = 10 PERCENT			DAMPING = 20 PERCENT								
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0.80	631-2	107-2	854-2	171-3	842-2	687-3	534-2	109-3	539-2	537-3	398-2	862-4	422-2	418-3	300-2	682-4	328-2	265-3	196-2	455-4	208-2
0.85	164-1	244-1	180-1	346-3	181-1	901-3	639-2	127-3	666-2	619-3	434-2	883-4	458-2	447-3	316-2	643-4	330-2	267-3	206-2	439-4	212-2
0.90	477-2	221-2	850-2	153-3	846-2	837-3	589-2	105-3	584-2	636-3	435-2	806-4	444-2	455-3	319-2	588-4	317-2	300-3	214-2	413-4	209-2
0.95	123-1	221-2	146-1	251-3	146-1	119-2	784-2	135-3	790-2	728-3	503-2	829-4	482-2	480-3	316-2	552-4	317-2	303-3	217-2	379-4	201-2
1.00	346-2	181-2	116-1	180-3	114-1	130-2	826-2	133-3	822-2	798-3	494-2	819-4	501-2	485-3	314-2	506-4	305-2	306-3	215-2	347-4	192-2
1.10	115-1	212-2	121-1	180-3	121-1	112-2	687-2	954-4	644-2	726-3	454-2	617-4	415-2	471-3	305-2	406-4	265-2	305-3	206-2	280-4	174-2
1.20	440-2	124-2	706-2	883-4	651-2	856-3	506-2	608-4	448-2	602-3	362-2	430-4	315-2	436-3	259-2	317-4	228-2	222-3	189-2	251-4	168-2
1.30	739-2	207-2	993-2	125-3	100-1	923-3	485-2	559-4	446-2	641-3	342-2	390-4	310-2	469-3	249-2	291-4	226-2	333-3	170-2	223-4	161-2
1.40	220-2	697-3	387-2	364-4	313-2	567-3	291-2	296-4	254-2	477-3	240-2	251-4	214-2	415-3	212-2	223-4	186-2	333-3	169-2	195-4	149-2
1.50	454-2	108-2	454-2	493-4	454-2	511-3	239-2	232-4	214-2	474-3	222-2	217-4	198-2	420-3	202-2	157-4	176-2	345-3	175-2	172-4	144-2
1.60	174-2	127-2	513-2	511-4	502-2	765-3	309-2	305-4	300-2	591-3	254-2	237-4	232-2	467-3	225-2	192-4	183-2	376-3	183-2	165-4	147-2
1.70	422-2	129-2	473-2	458-4	479-2	892-3	355-2	315-4	329-2	683-3	292-2	242-4	252-2	515-3	246-2	187-4	190-2	411-3	188-2	161-4	152-2
1.80	615-2	180-2	632-2	568-4	628-2	980-3	384-2	309-4	342-2	773-3	303-2	245-4	269-2	582-3	251-2	189-4	203-2	439-3	189-2	155-4	153-2
1.90	447-2	157-2	527-2	445-4	519-2	108-2	360-2	307-4	358-2	758-3	291-2	227-4	264-2	616-3	239-2	180-4	203-2	455-3	183-2	147-4	150-2
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2.40	382-2	185-2	586-2	329-4	486-2	119-2	395-2	212-4	313-2	870-3	282-2	156-4	227-2	600-3	205-2	112-4	157-2	389-3	173-2	848-5	101-2
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3.00	223-2	196-2	431-2	223-3	411-2	133-2	291-2	151-4	275-2	949-3	236-2	108-4	198-2	718-3	197-2	835-5	150-2	517-3	166-2	635-5	108-2
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3.60	517-2	350-2	568-2	241-2	462-4	562-2	231-2	164-4	383-2	161-2	267-2	115-4	267-2	113-2	209-2	834-5	187-2	743-3	165-2	595-5	122-2
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4.00	326-2	218-2	358-2	139-4	343-2	164-2	307-2	104-4	257-2	136-2	241-2	884-5	214-2	1066-2	175-2	715-5	167-2	760-3	151-2	569-5	119-2
4.20	117-2	137-2	256-2	797-5	185-2	205-2	258-2	718-5	184-2	106-2	220-2	626-5	159-2	918-3	177-2	567-5	137-2	749-3	148-2	524-5	112-2
4.40	907-3	130-2	198-2	687-5	185-2	116-2	179-2	618-5	166-2	102-2	179-2	551-5	146-2	850-3	165-2	476-5	111-2	717-3	148-2	435-5	979-3
4.60	170-2	129-2	180-2	625-5	176-2	102-2	154-2	494-5	139-2	959-3	154-2	470-5	131-2	819-3	155-2	424-5	111-2	717-3	148-2	435-5	979-3
4.80	153-2	119-2	173-2	528-5	155-2	105-2	168-2	469-5	138-2	919-3	166-2	413-5	120-2	769-3	161-2	369-5	100-2	714-3	150-2	405-5	935-3
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5.50	163-2	156-2	241-2	668-5	205-2	119-2	190-2	487-5	149-2	894-3	173-2	373-5	112-2	828-3	167-2	368-5	104-2	714-3	150-2	405-5	935-3
6.00	895-3	134-2	210-2	381-5	140-2	123-2	200-2	351-5	129-2	114-2	189-2	338-5	120-2	105-2	180-2	333-5	110-2	507-3	154-2	344-5	950-3
6.50	853-3	187-2	277-2	452-5	180-2	152-2	249-2	370-5	147-2	140-2	222-2	347-5	135-2	121-2	194-2	321-5	117-2	102-2	154-2	334-5	950-3
7.00	248-2	286-2	301-2	597-5	256-2	198-2	259-2	414-5	177-2	165-2	232-2	351-5	148-2	141-2	207-2	322-5	126-2	112-2	172-2	324-5	101-2
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8.00	133-2	283-2	297-2	452-5	222-2	259-2	276-2	415-5	175-2	188-2	251-2	346-5	157-2	156-2	215-2	308-5	132-2	121-2	178-2	312-5	102-2
8.50	147-2	371-2	321-2	526-5	274-2	321-2	294-2	464-5	242-2	274-2	261-2	393-5	203-2	213-2	222-2	318-5	157-2	152-2	179-2	281-5	112-2
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9.50	348-2	527-2	417-2	597-5	348-2	423-2	343-2	481-5	280-2	354-2	278-2	407-5	234-2	271-2	236-2	320-5	179-2	188-2	192-2	243-5	120-2
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13.00	215-2	559-2	312-2	338-5	270-2	493-2	273-2	298-5	237-2	415-2	220-2	256-5	200-2	322-2	216-2	210-5	156-2	224-2	194-2	173-5	108-2
14.00	186-2	449-2	255-2	234-5	201-2	408-2	233-2	214-5	183-2	360-2	217-2	194-5	161-2	295-2	205-2	168-5	132-2	218-2	191-2	170-5	580-3
15.00	182-2	434-2	250-2	197-5	182-2	343-2	240-2	159-5	146-2	319-2	226-2	152-5	134-2	276-2	206-2	142-5	115-2	208-2	150-2	153-5	873-3

RELATIVE VELOCITY RESPONSE SPECTRUM
KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT
111A004 52.002.0 TAFT LINCOLN SCHOOL TUNNEL COMP N21E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

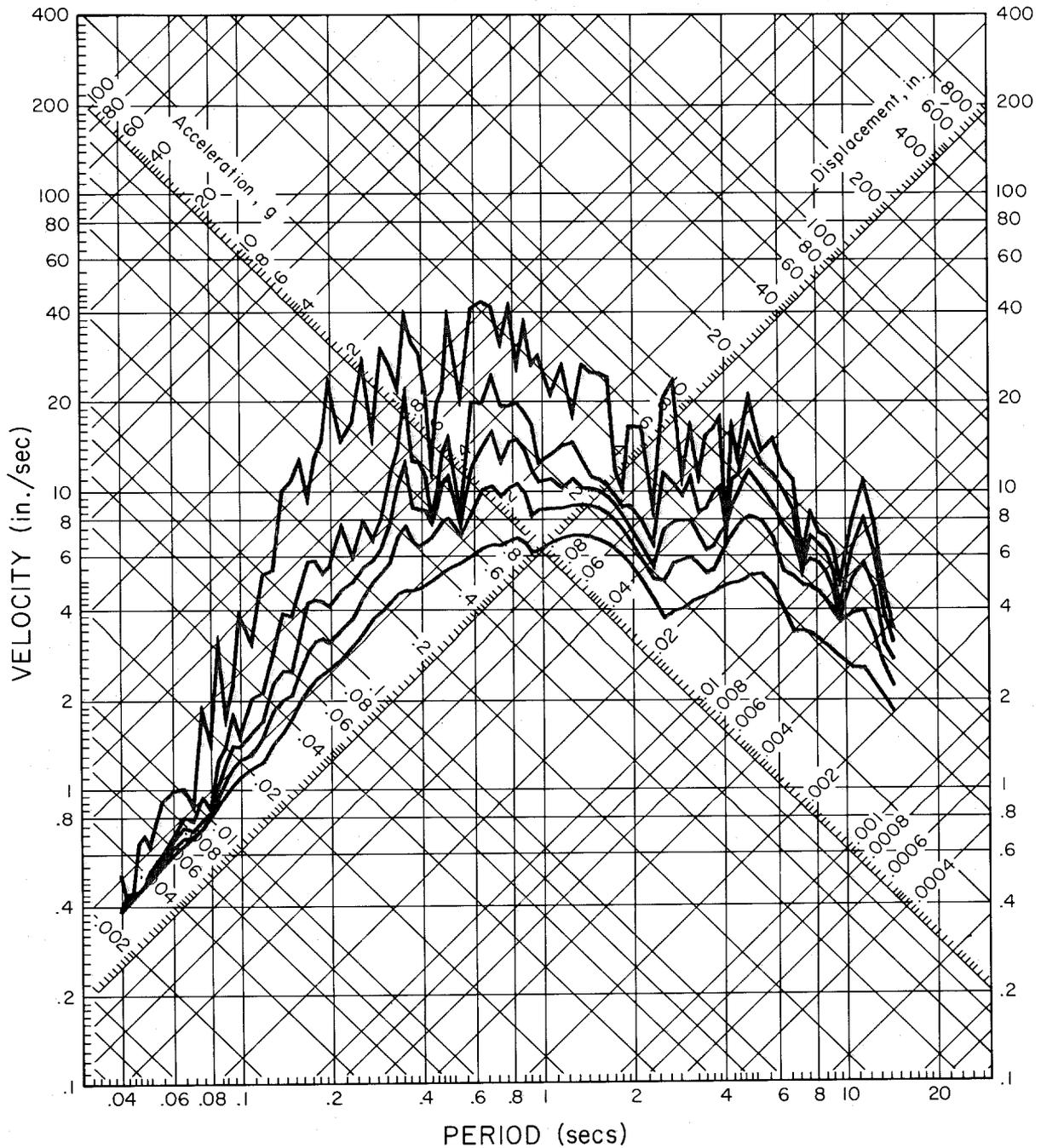


RESPONSE SPECTRUM

KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT

IIIA004 52.002.0 TAFT LINCOLN SCHOOL TUNNEL COMP N21E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

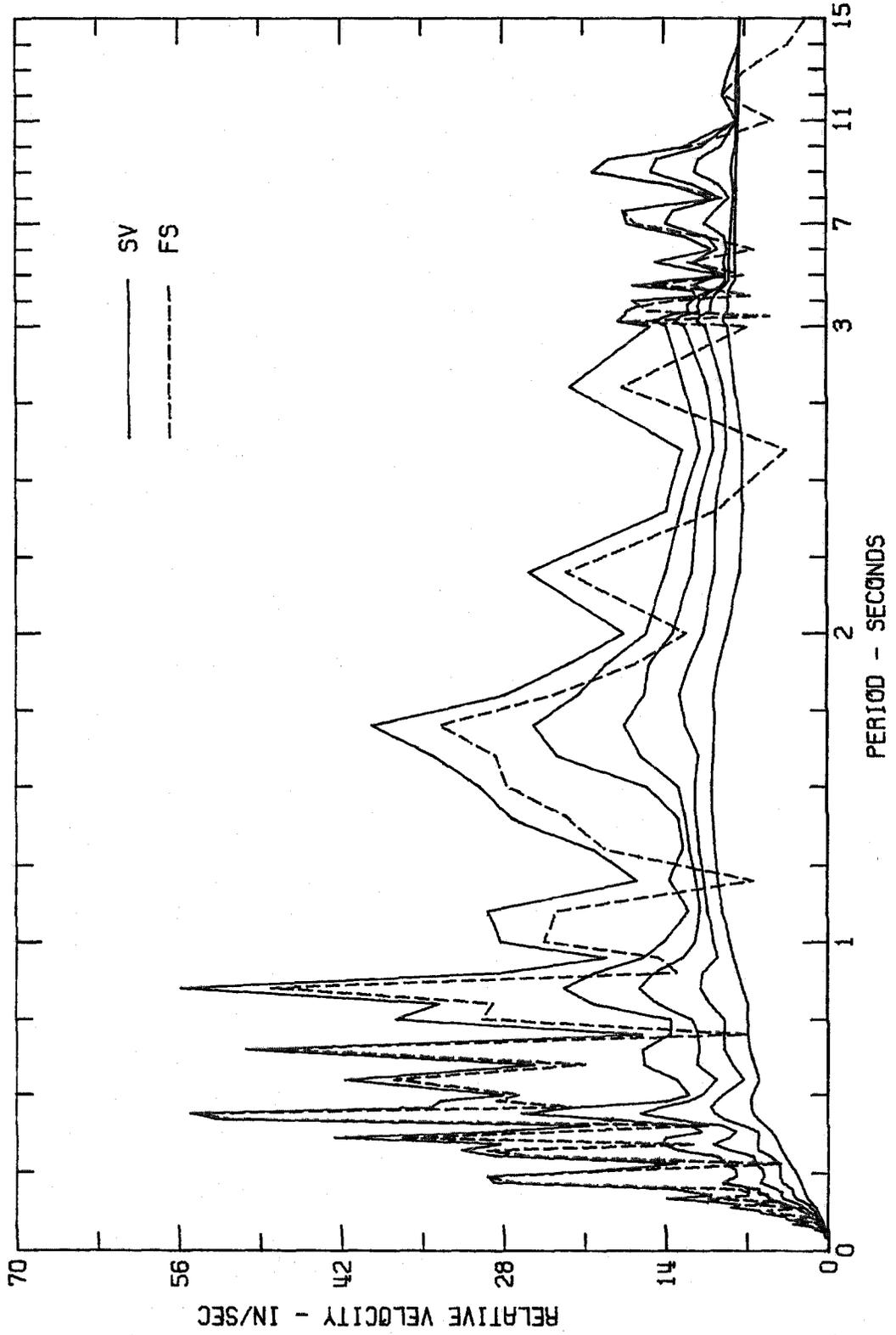


IIIA004 52.002.0 TAFT LINCOLN SCHOOL TUNNEL COMP N21E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD ANC G FOR SA

PER	DAMPING = 0 PERCENT					DAMPING = 2 PERCENT					DAMPING = 5 PERCENT					DAMPING = 10 PERCENT					DAMPING = 20 PERCENT				
	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV
0.75	117-1	384-2	333-1	699-3	322-1	237-2	202-1	430-3	198-1	153-2	134-1	282-3	128-1	118-2	105-1	220-3	992-2	811-3	742-2	164-3	679-2				
0.80	396-1	546-2	427-1	872-3	428-1	252-2	190-1	404-3	198-1	191-2	152-1	305-3	150-1	134-2	116-1	221-3	106-1	894-3	804-2	157-3	702-2				
0.85	146-1	366-2	279-1	519-3	271-1	273-2	227-1	388-3	202-1	207-2	174-1	294-3	153-1	147-2	125-1	214-3	109-1	570-3	825-2	152-3	717-2				
0.90	159-1	539-2	365-1	681-3	376-1	268-2	195-1	339-3	187-1	201-2	151-1	256-3	140-1	145-2	113-1	189-3	101-1	589-3	600-2	141-3	691-2				
0.95	234-1	414-2	282-1	469-3	274-1	258-2	182-1	292-3	170-1	181-2	131-1	207-3	120-1	128-2	100-1	149-3	649-2	570-3	752-2	126-3	641-2				
1.00	294-1	467-2	294-1	478-3	293-1	204-2	129-1	209-3	128-1	176-2	114-1	181-3	110-1	141-2	537-2	146-3	890-2	104-2	749-2	114-3	654-2				
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7.50	442-2	737-2	777-2	134-4	611-2	650-2	660-2	118-4	545-2	675-2	639-2	123-4	565-2	592-2	621-2	109-4	496-2	415-2	592-2	507-5	348-2				
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13.00	696-2	163-1	904-2	289-5	790-2	130-1	748-2	793-5	633-2	989-2	684-2	607-5	478-2	697-2	673-2	445-5	337-2	480-2	652-2	465-5	232-2				
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RELATIVE VELOCITY RESPONSE SPECTRUM
KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT
IIIA004 52.002.0 TAFT LINCOLN SCHOOL TUNNEL COMP 569E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

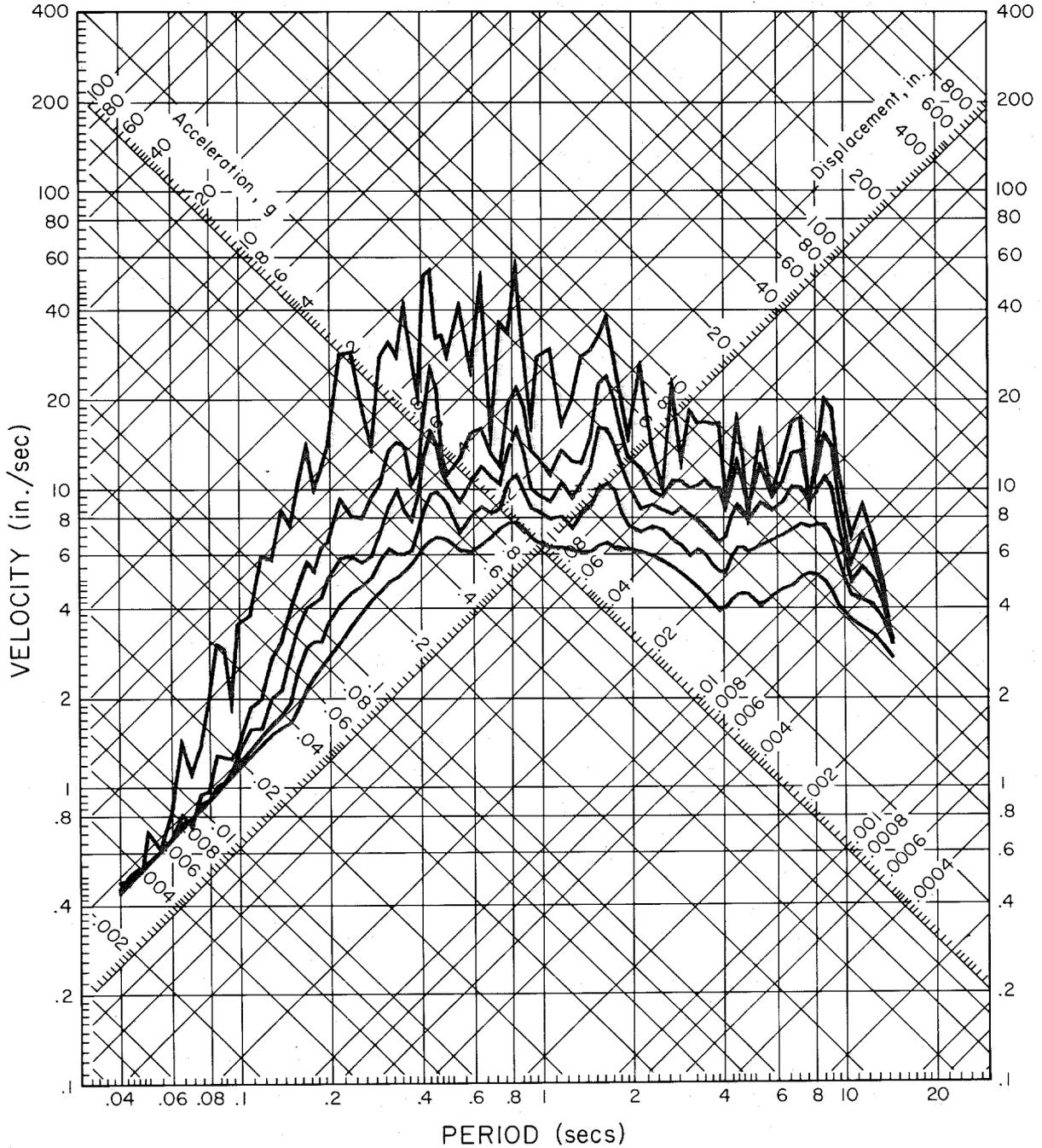


RESPONSE SPECTRUM

KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT

IIIA004 52.002.0 TAFT LINCOLN SCHOOL TUNNEL COMP 569E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

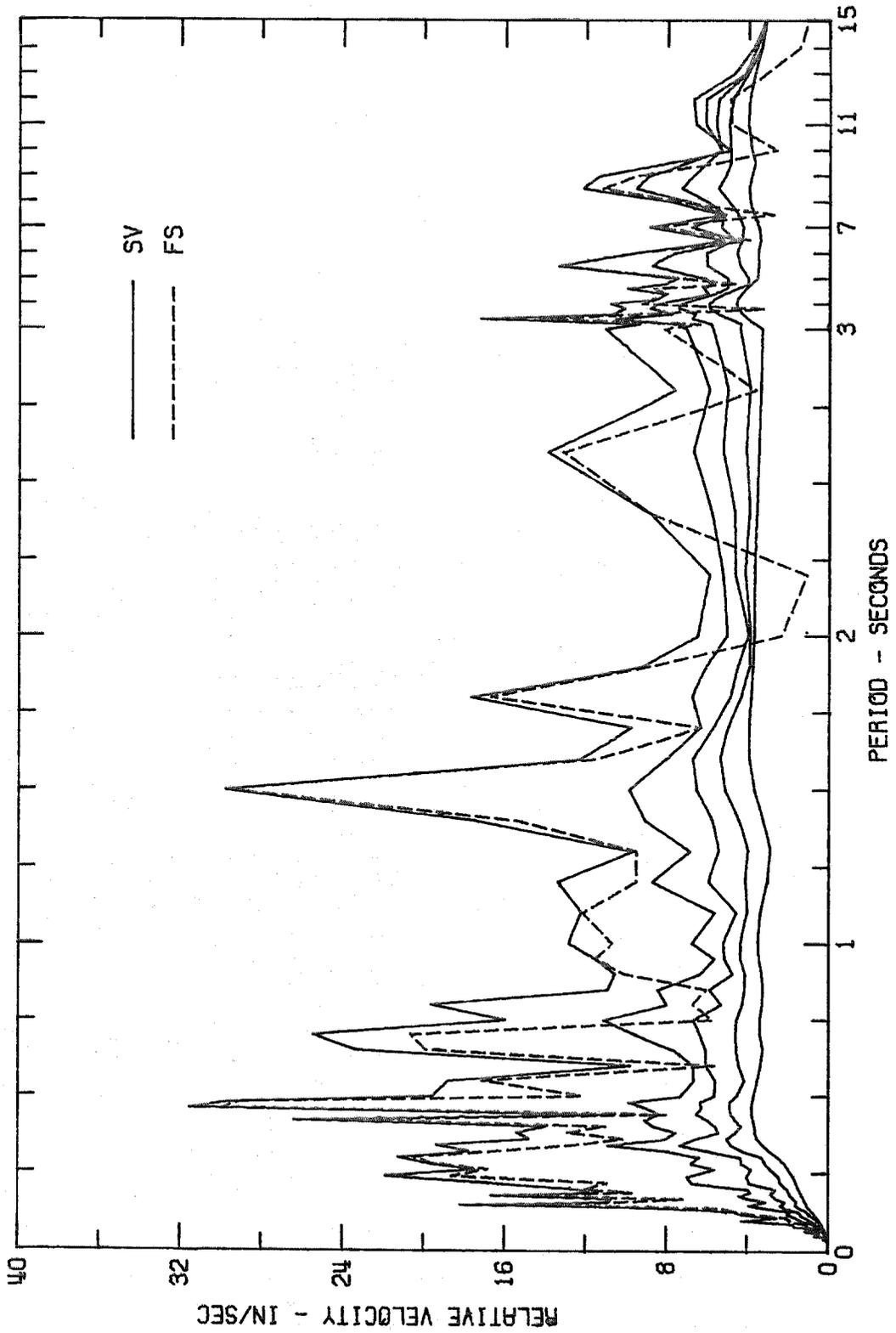


IIIA004 52.002.0 TAFT LINCOLN SCHOOL TUNNEL COMP S69E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SC AND G FOR SA

PER	DAMPING = 0 PERCENT					DAMPING = 2 PERCENT					DAMPING = 5 PERCENT					DAMPING = 10 PERCENT					DAMPING = 20 PERCENT				
	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV
0.75	298-1	441-2	373-1	803-3	370-1	144-2	134-1	262-3	120-1	126-2	116-1	230-3	105-1	104-2	685-2	194-3	674-2	900-3	687-2	178-3	754-2				
0.80	288-1	434-2	334-1	693-3	340-1	253-2	201-1	403-3	198-1	177-2	146-1	286-3	139-1	136-2	101-1	224-3	107-1	595-3	682-2	176-3	784-2				
0.85	480-1	758-2	558-1	107-2	560-1	301-2	227-1	427-3	222-1	220-2	162-1	312-3	162-1	153-2	109-1	223-3	113-1	106-2	731-2	167-3	786-2				
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0.95	146-1	256-2	190-1	291-3	163-1	206-2	159-1	234-3	136-1	154-2	124-1	176-3	102-1	132-2	946-2	153-3	676-2	105-2	610-2	135-3	695-2				
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1.60	286-1	844-2	340-1	337-3	331-1	582-2	233-1	233-3	228-1	413-2	161-1	166-3	162-1	262-2	111-1	108-3	103-1	167-2	980-2	768-4	658-2				
1.70	335-1	104-1	393-1	368-3	385-1	654-2	253-1	231-3	242-1	436-2	175-1	155-3	161-1	286-2	123-1	104-3	105-1	181-2	572-2	753-4	672-2				
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9.50	186-1	281-1	186-1	319-4	186-1	212-1	145-1	241-4	140-1	153-1	109-1	174-4	101-1	103-1	686-2	119-4	686-2	691-2	766-2	856-5	457-2				
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11.00	456-2	122-1	774-2	103-4	699-2	998-2	773-2	845-5	570-2	867-2	771-2	736-5	495-2	820-2	766-2	672-5	445-2	646-2	756-2	604-5	369-2				
12.00	896-2	171-1	895-2	121-4	895-2	137-1	779-2	977-5	719-2	106-1	752-2	757-5	555-2	824-2	758-2	601-5	431-2	662-2	750-2	480-5	348-2				
13.00	679-2	141-1	826-2	858-5	685-2	123-1	756-2	747-5	595-2	104-1	761-2	635-5	503-2	856-2	750-2	546-5	414-2	679-2	745-2	532-5	328-2				
14.00	326-2	109-1	746-2	572-5	492-2	102-1	746-2	534-5	459-2	933-2	745-2	494-5	419-2	821-2	744-2	447-5	368-2	673-2	740-2	425-5	302-2				
15.00	165-2	727-2	739-2	330-5	304-2	753-2	739-2	343-5	315-2	162-2	739-2	352-5	319-2	740-2	739-2	354-5	310-2	655-2	736-2	371-5	274-2				

RELATIVE VELOCITY RESPONSE SPECTRUM
KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT
111A004 52.002.0 TAFT LINCOLN SCHOOL TUNNEL COMP VERT
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

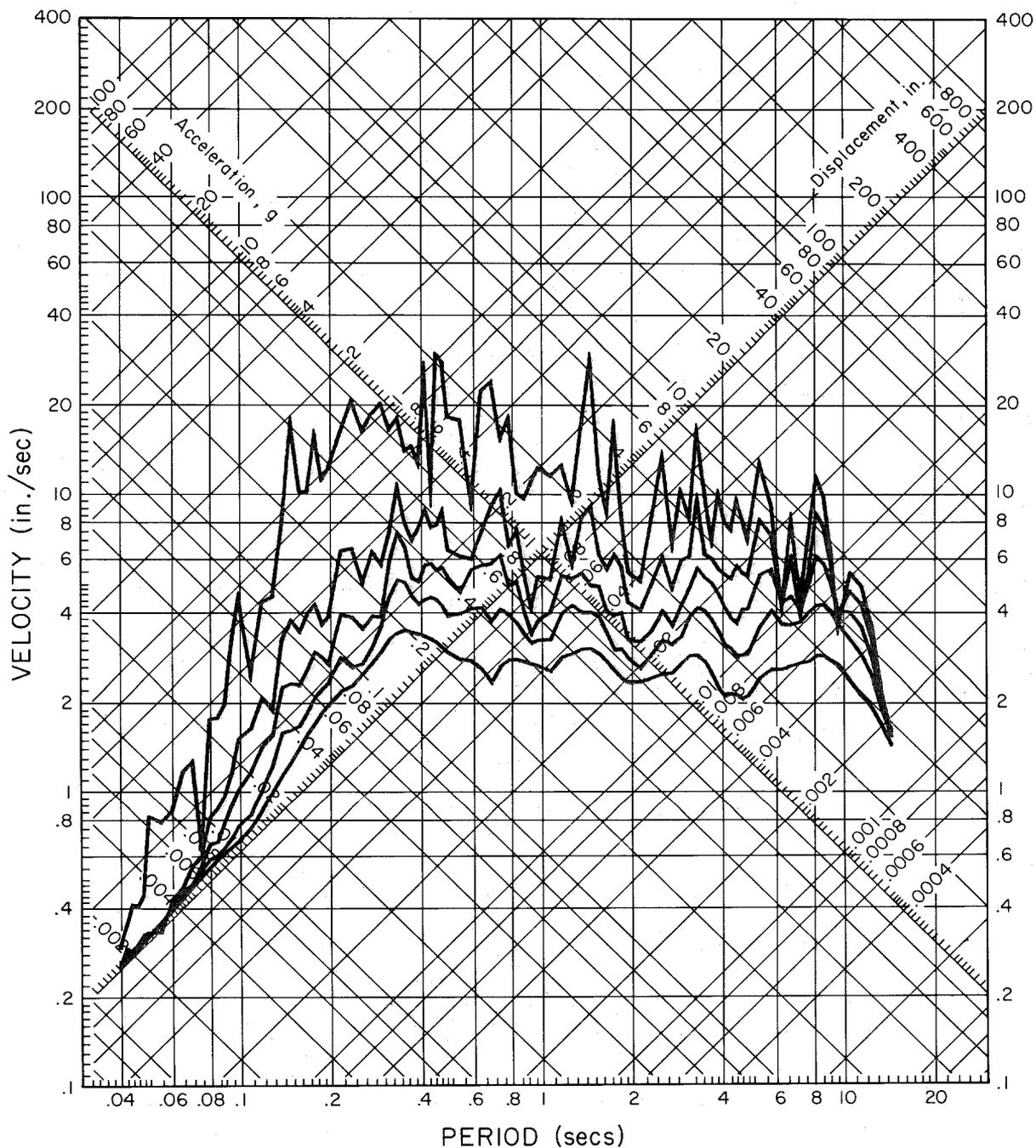


RESPONSE SPECTRUM

KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT

111A004 52.002.0 TAFT LINCOLN SCHOOL TUNNEL COMP VERT

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT
IIIA004 52.002.0 TAFT LINCOLN SCHOOL TUNNEL COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

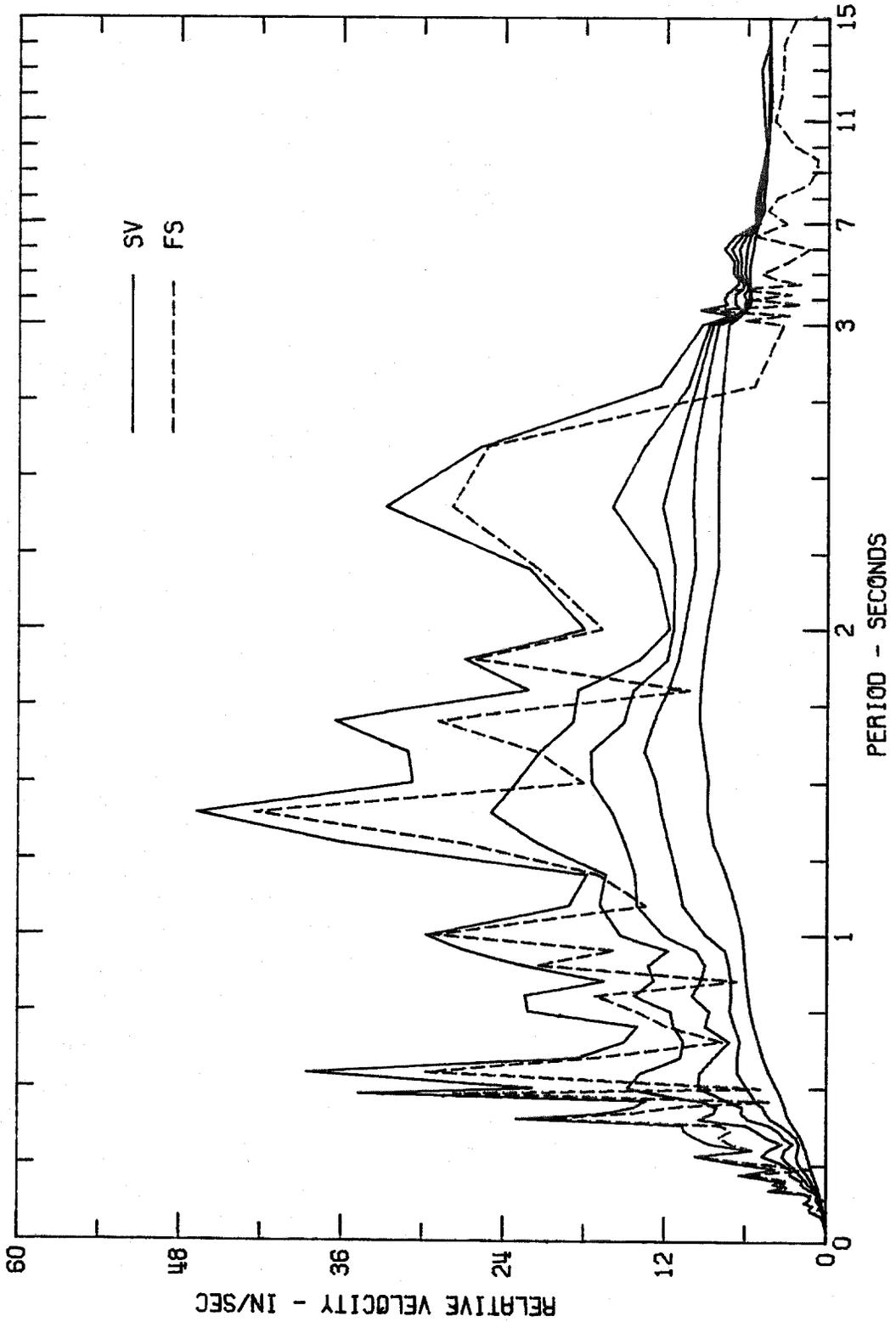
PER	DAMPING = 0 PERCENT				DAMPING = 2 PERCENT				DAMPING = 5 PERCENT				DAMPING = 10 PERCENT				DAMPING = 20 PERCENT				
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	206-3	201-5	216-3	129-3	317-3	173-5	836-4	110-3	272-3	178-5	695-4	113-3	280-3	177-5	612-4	113-3	278-3	173-5	521-4	111-3	273-3
0.042	106-3	252-5	159-3	146-3	378-3	211-5	837-4	122-3	316-3	200-5	720-4	116-3	300-3	196-5	681-4	114-3	294-3	192-5	570-4	112-3	287-3
0.044	126-3	310-5	235-3	163-3	443-3	215-5	1023-3	114-3	308-3	218-5	891-4	115-3	312-3	216-5	764-4	114-3	308-3	211-5	627-4	112-3	302-3
0.046	114-3	321-5	219-3	155-3	439-3	240-5	122-3	116-3	328-3	235-5	102-3	115-3	326-3	236-5	664-4	114-3	322-3	232-5	694-4	113-3	317-3
0.048	155-3	366-5	235-3	162-3	475-3	268-5	114-3	119-3	351-3	261-5	108-3	116-3	342-3	257-5	942-4	114-3	337-3	253-5	753-4	113-3	332-3
0.050	600-3	700-5	709-3	286-3	880-3	285-5	123-3	116-3	358-3	280-5	115-3	115-3	352-3	279-5	100-3	114-3	351-3	276-5	812-4	113-3	346-3
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0.060	465-3	883-5	618-3	250-3	924-3	437-5	188-3	128-3	458-3	424-5	141-3	120-3	444-3	416-5	127-3	118-3	436-3	406-5	954-4	114-3	384-3
0.065	108-2	129-4	118-2	313-3	125-2	530-5	262-3	128-3	512-3	511-5	187-3	124-3	494-3	497-5	153-3	121-3	481-3	484-5	132-3	118-3	467-3
0.070	726-3	151-4	108-2	316-3	136-2	669-5	290-3	140-3	601-3	577-5	210-3	120-3	516-3	584-5	188-3	121-3	524-3	567-5	163-3	115-3	509-3
0.075	255-3	808-5	513-3	147-3	677-3	770-5	440-3	139-3	645-3	722-5	303-3	132-3	604-3	694-5	239-3	126-3	581-3	655-5	197-3	121-3	549-3
0.080	119-2	240-4	170-2	384-3	188-2	111-4	652-3	177-3	875-3	902-5	401-3	143-3	708-3	803-5	255-3	128-3	630-3	753-5	232-3	121-3	591-3
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0.190	968-2	363-3	117-1	102-2	120-1	117-3	384-2	332-3	389-2	913-4	281-2	262-3	302-2	717-4	156-2	206-3	237-2	602-4	135-2	177-3	199-2
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IIIAA004 52.002.0 TAFT LINCOLN SCHOOL TUNNEL COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT				DAMPING = 2 PERCENT				DAMPING = 5 PERCENT				DAMPING = 10 PERCENT				DAMPING = 20 PERCENT				
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0.80	672-2	243-2	196-1	389-3	191-1	916-3	798-2	146-3	719-2	665-3	528-2	106-3	522-2	531-3	423-2	666-4	417-2	375-3	326-2	637-4	294-2
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0.95	115-1	176-2	115-1	200-3	117-1	664-3	561-2	753-4	439-2	544-3	514-2	619-4	360-2	507-3	436-2	588-4	335-2	431-3	344-2	537-4	285-2
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1.50	297-1	711-2	297-1	323-3	298-1	231-2	586-2	105-3	971-2	124-2	653-2	573-4	523-2	101-2	514-2	477-4	425-2	767-3	370-2	367-4	321-2
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4.40	802-2	562-2	802-2	297-4	802-2	386-2	597-2	204-4	552-2	284-2	564-2	153-4	405-2	224-2	513-2	128-4	320-2	159-2	434-2	582-5	227-2
4.60	872-2	739-2	100-1	357-4	101-1	446-2	621-2	215-4	605-2	285-2	605-2	138-4	389-2	221-2	454-2	116-4	302-2	165-2	410-2	558-5	225-2
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RELATIVE VELOCITY RESPONSE SPECTRUM
KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT
111A005 52.003.0 SANTA BARBARA COURTHOUSE COMP N42E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

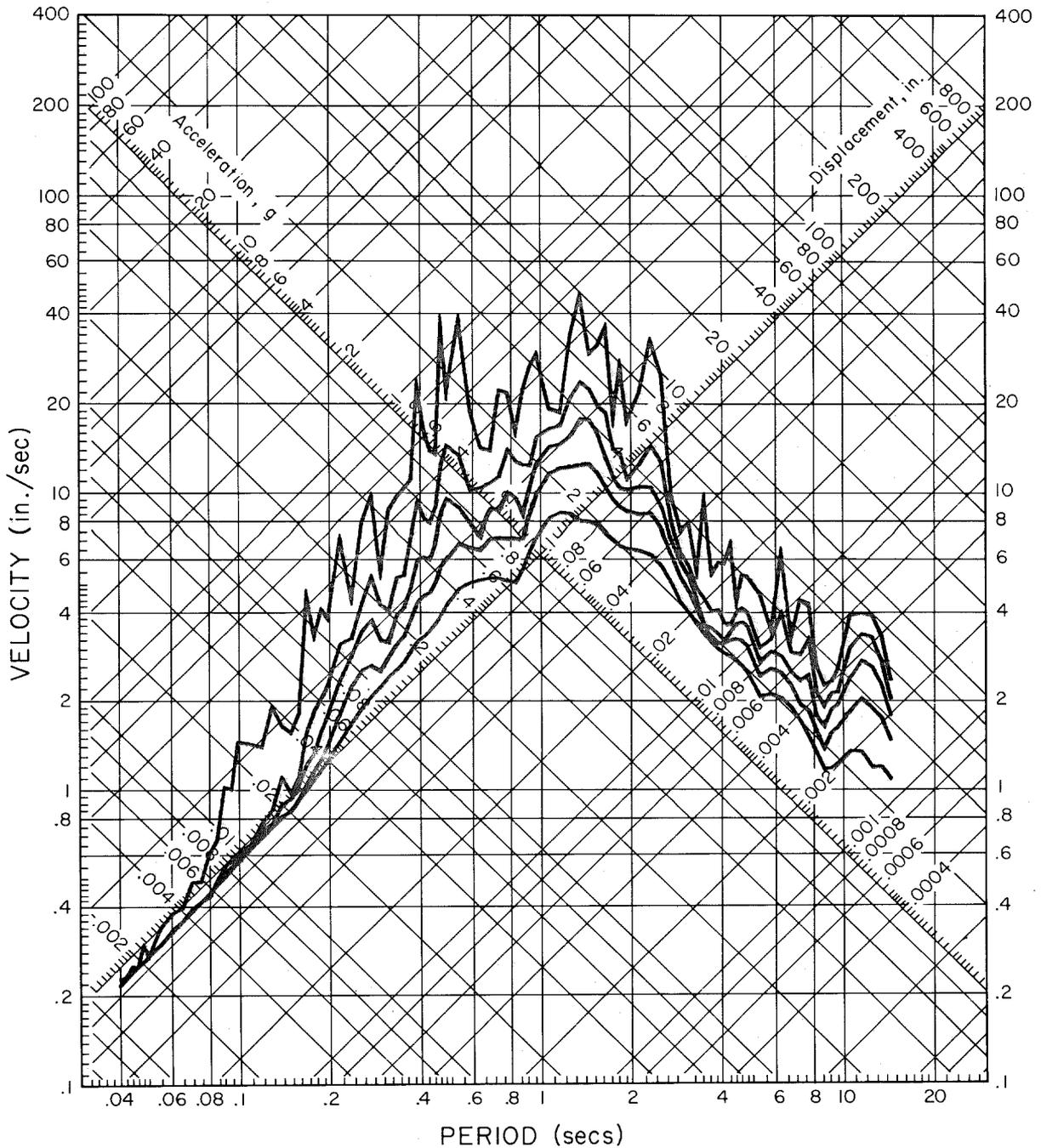


RESPONSE SPECTRUM

KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT

IIIA005 52.003.0 SANTA BARBARA COURTHOUSE COMP N42E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - C453 PDT
I11A005 52-003.0 SANTA BARBARA COURTHOUSE CCMP N42E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SC AND G FOR SA

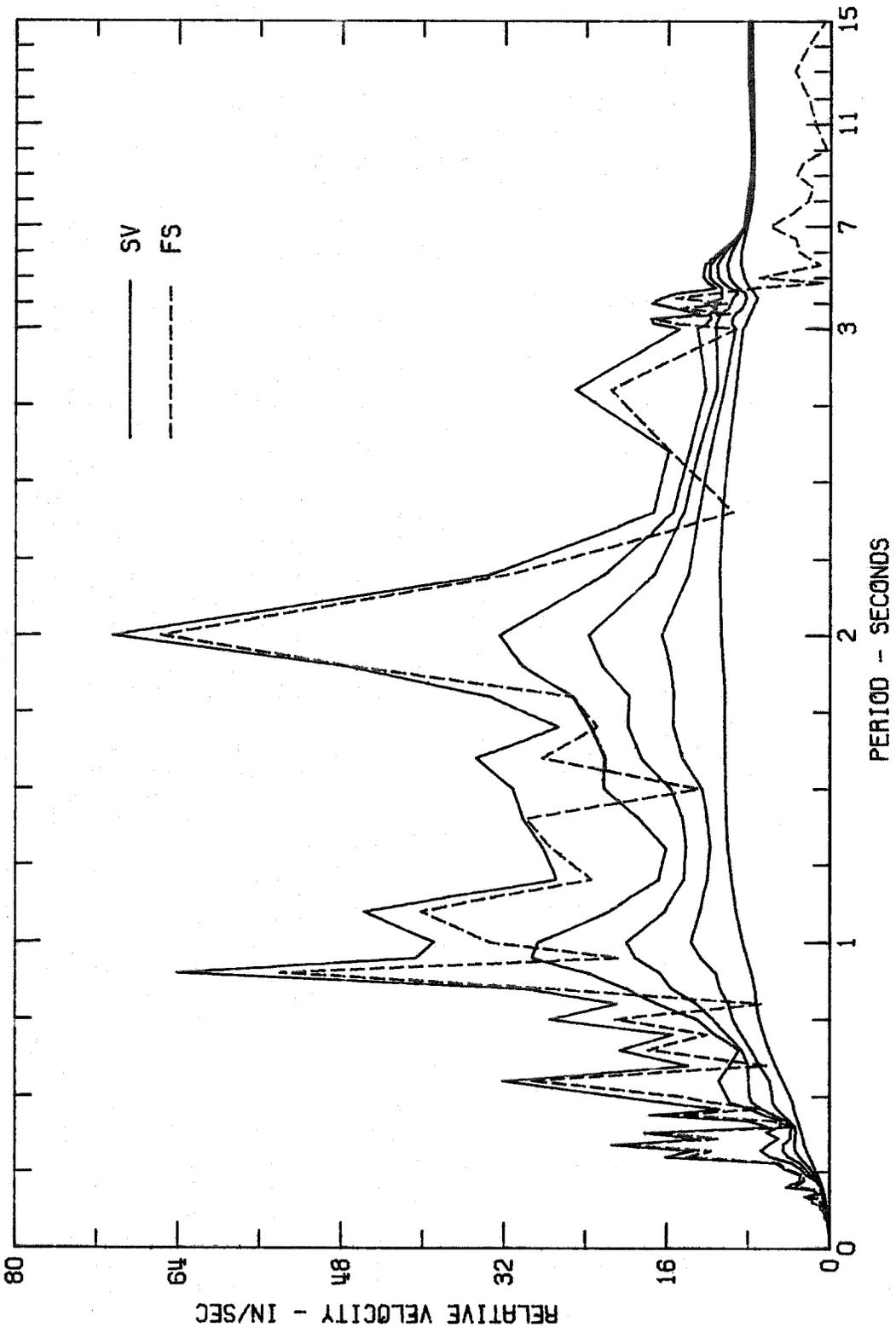
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IIIA005 52.003.0 SANTA BARBARA COURTHOUSE COMP N42E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT					DAMPING = 2 PERCENT					DAMPING = 5 PERCENT					DAMPING = 10 PERCENT					DAMPING = 20 PERCENT				
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0.85	661-2	221-2	165-1	313-3	163-1	176-2	127-1	250-3	130-1	133-2	932-2	183-3	585-2	585-2	980-3	708-2	141-3	724-2	698-3	595-2	106-3	516-2			
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RELATIVE VELOCITY RESPONSE SPECTRUM
KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT
IIIA005 52.003.0 SANTA BARBARA COURTHOUSE COMP S48E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

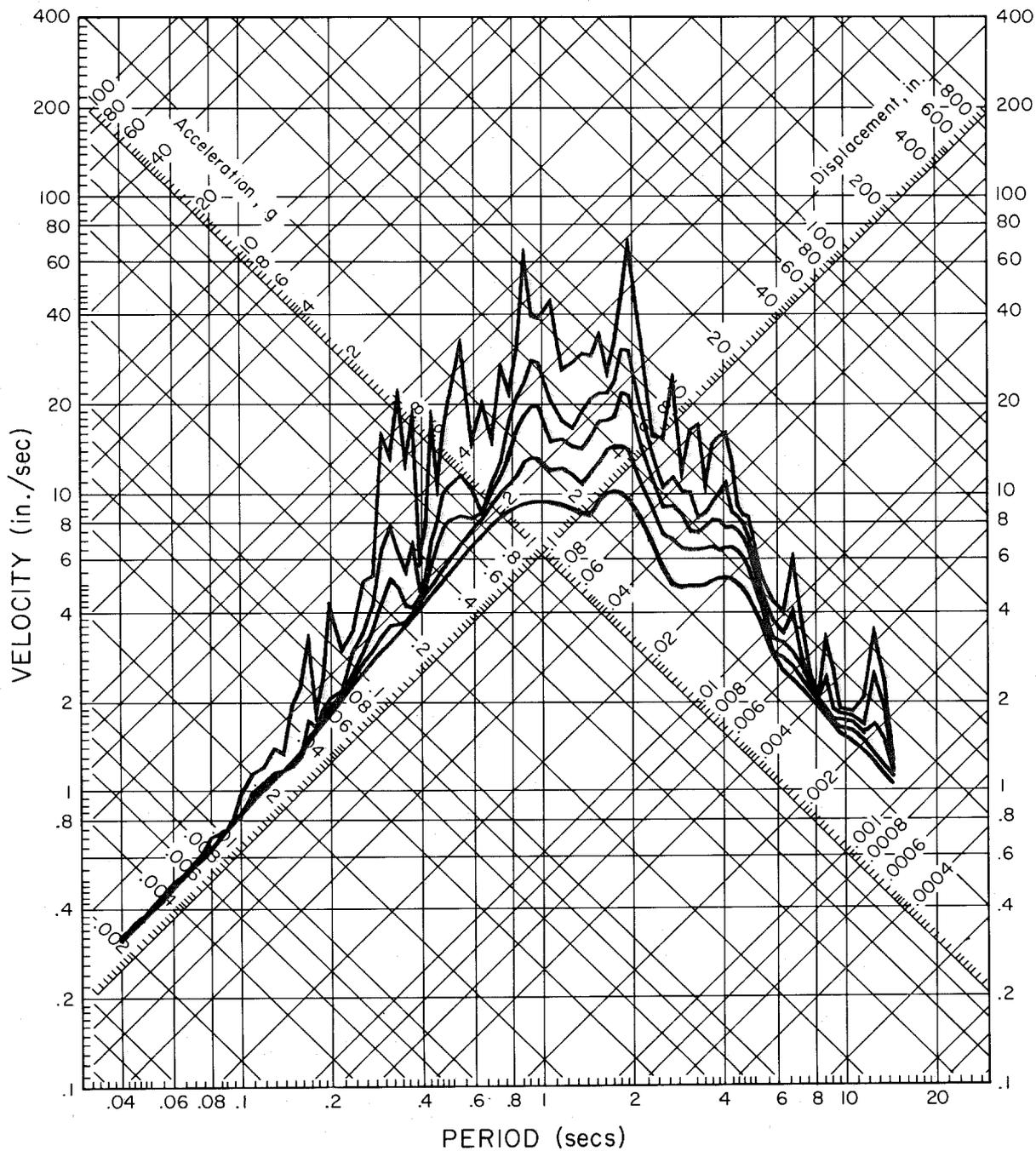


RESPONSE SPECTRUM

KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT

IIIA005 52.003.0 SANTA BARBARA COURTHOUSE COMP 548E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

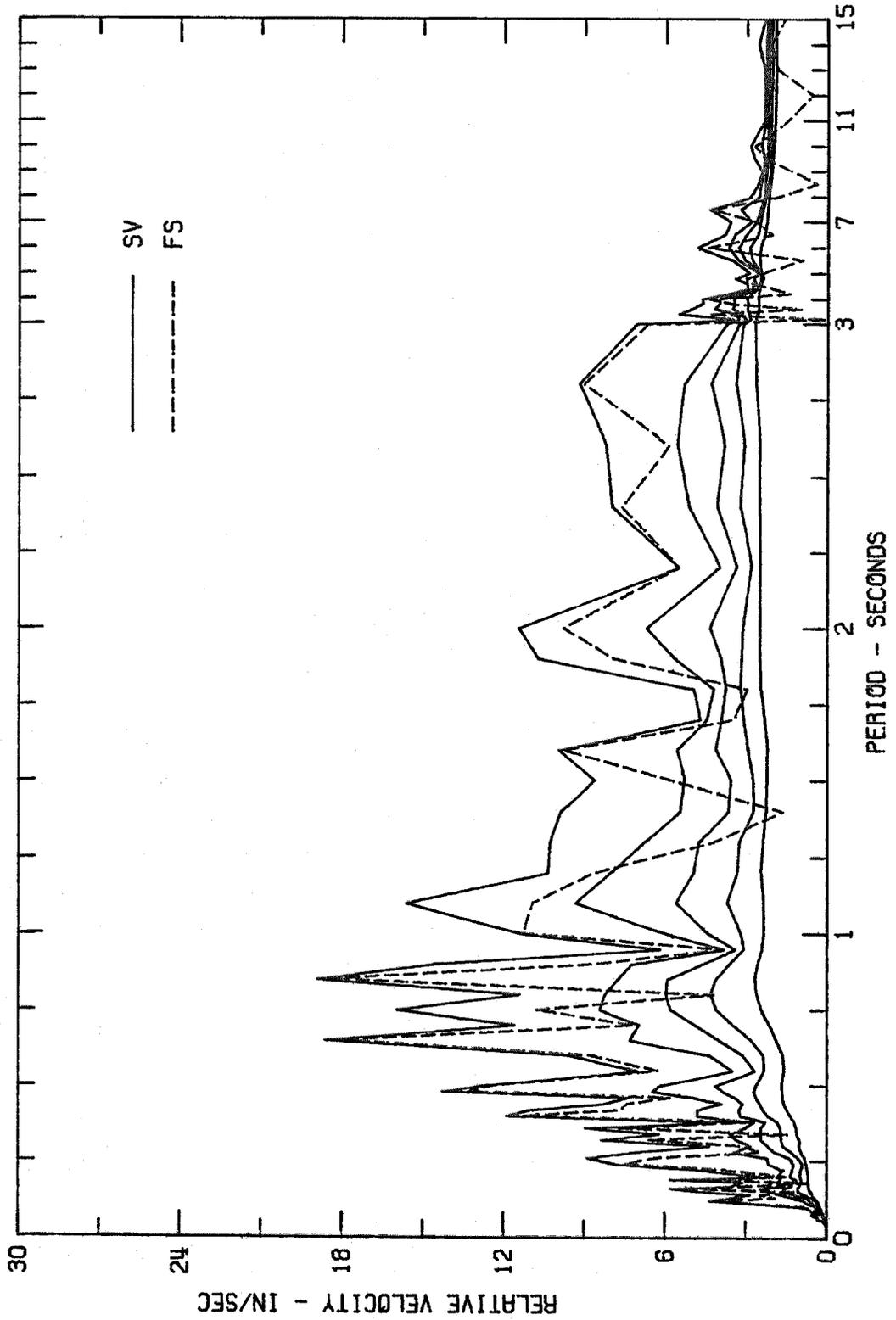


KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT
IIIIA005 52.003.0 SANTA BARBARA COURTHOUSE CGMP S48E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SC AND G FOR SA

PER	DAMPING = 0 PERCENT					DAMPING = 2 PERCENT					DAMPING = 5 PERCENT					DAMPING = 10 PERCENT					DAMPING = 20 PERCENT												
	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV			
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RELATIVE VELOCITY RESPONSE SPECTRUM
KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT
111A005 52.003.0 SANTA BARBARA COURT HOUSE COMP VERT
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

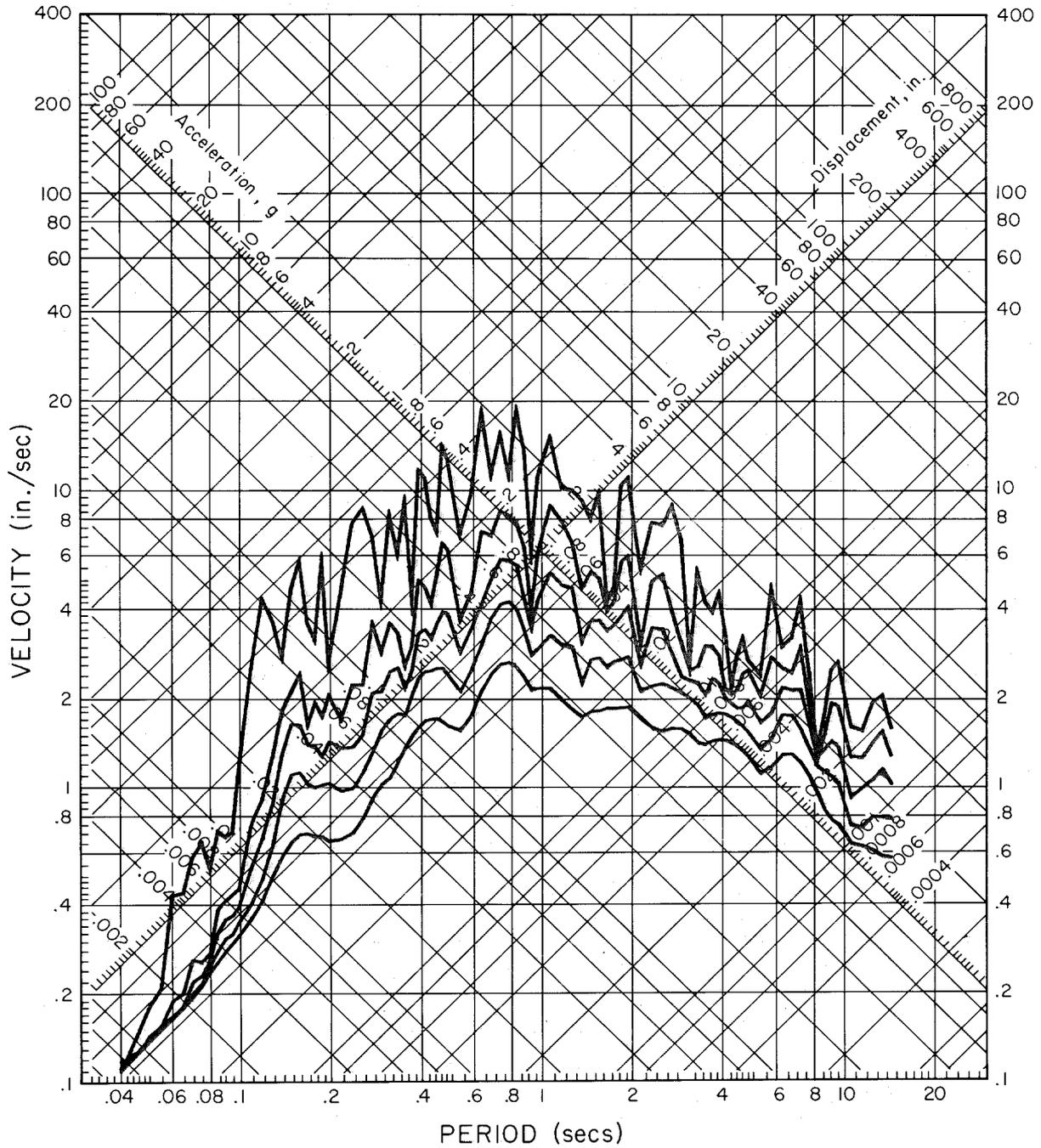


RESPONSE SPECTRUM

KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT

IIIA005 52.003.0 SANTA BARBARA COURT HOUSE COMP VERT

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT

IIIA005 52.003.0 SANTA BARBARA COURT HOUSE CCMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SC AND G FOR SA

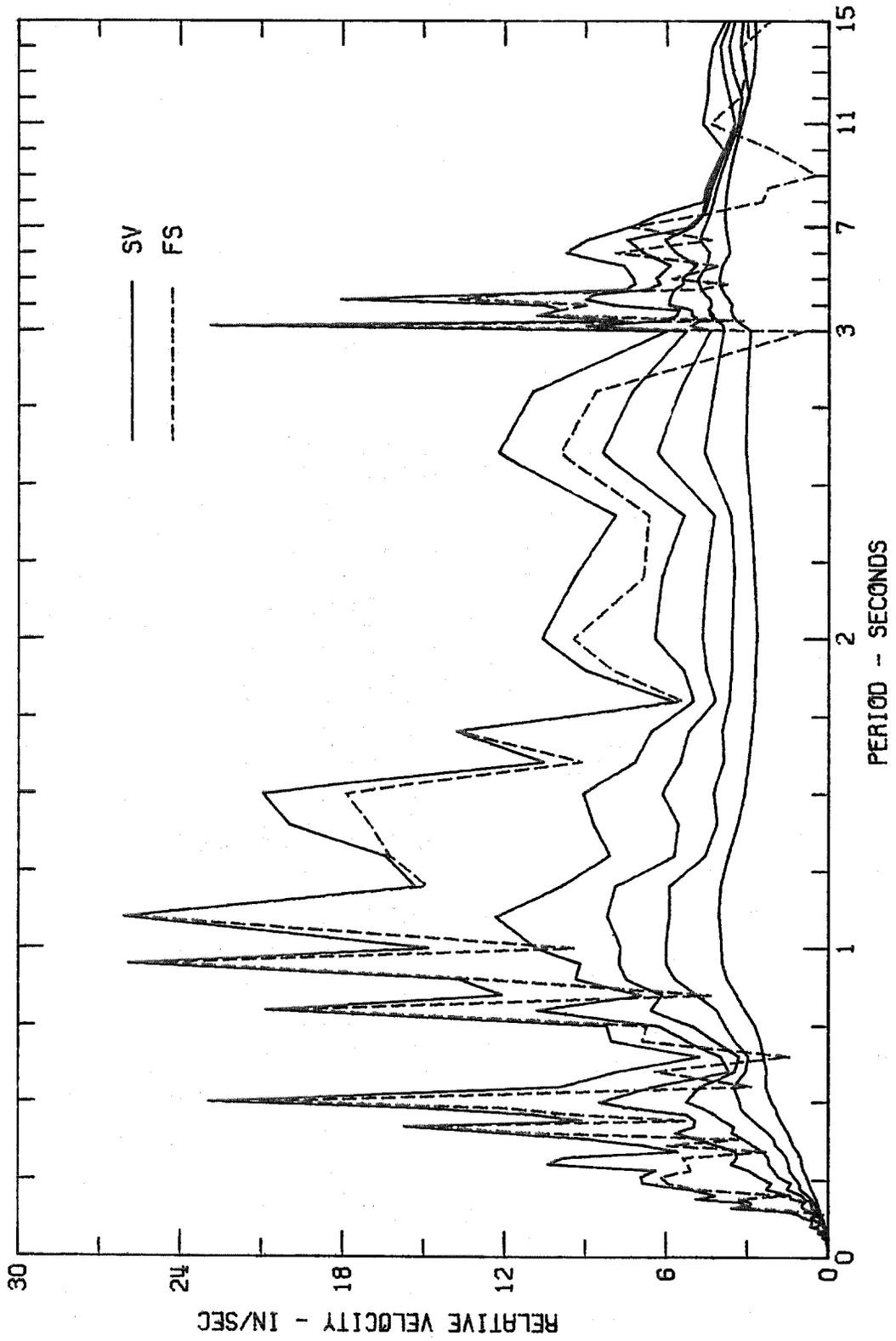
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O.040	912-5	769-6	322-4	491-4	120-3	730-6	308-4	466-4	114-3	728-6	316-4	465-4	114-3	725-6	319-4	463-4	113-3	717-6	309-4	460-4	112-3	717-6	308-4	460-4	112-3	717-6	309-4	460-4	112-3
O.042	132-4	828-6	416-4	479-4	123-3	811-6	351-4	470-4	121-3	808-6	355-4	468-4	120-3	802-6	355-4	464-4	120-3	792-6	341-4	460-4	118-3	792-6	341-4	460-4	118-3	792-6	341-4	460-4	118-3
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IIIA005 52.003-0 SANTA BARBARA COURT HOUSE CUMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT				DAMPING = 2 PERCENT				DAMPING = 5 PERCENT				DAMPING = 10 PERCENT				DAMPING = 20 PERCENT				
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RELATIVE VELOCITY RESPONSE SPECTRUM
KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT
111A006 52.005.0 HOLLYWOOD STORAGE BASEMENT COMP SOOW
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

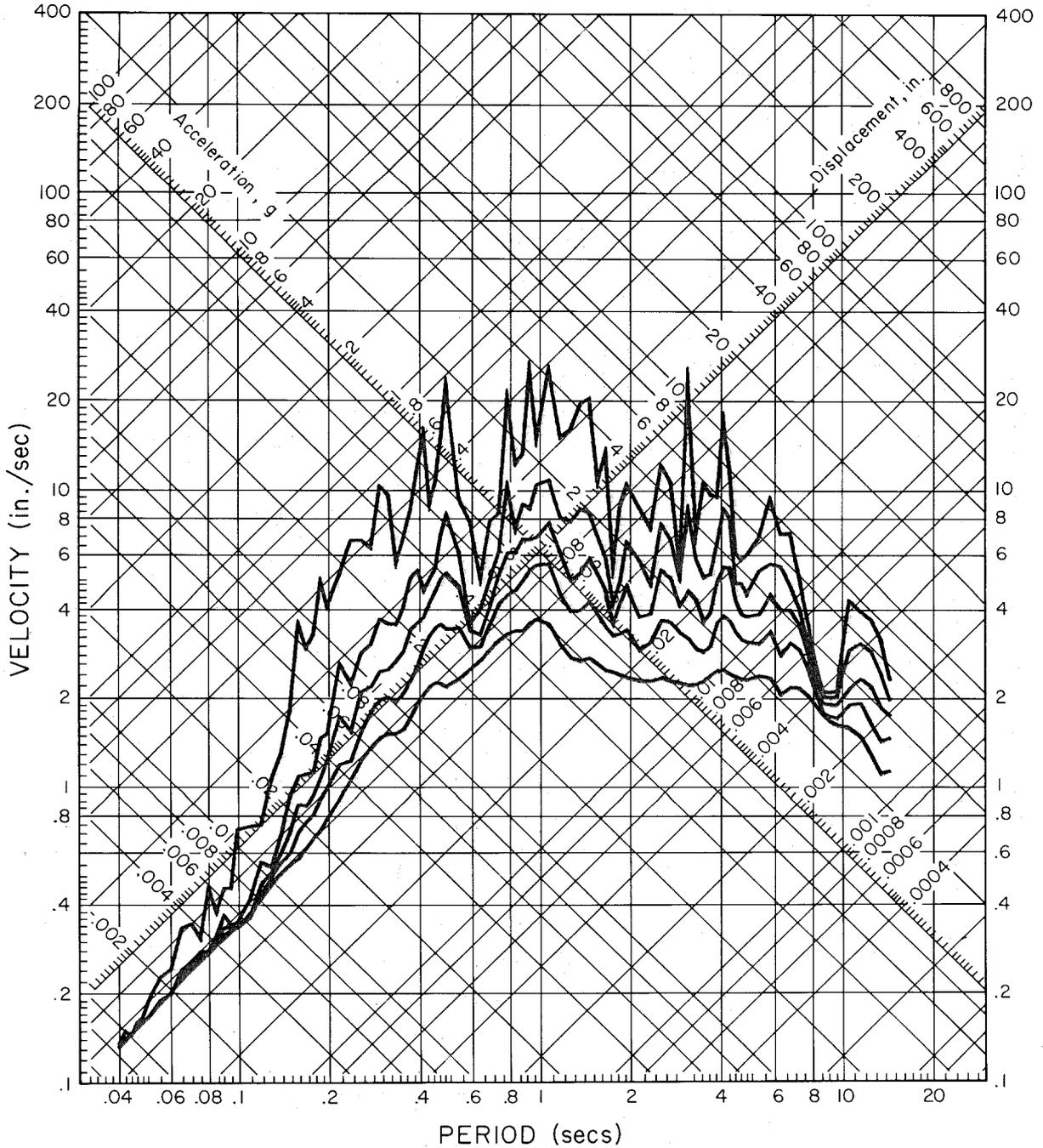


RESPONSE SPECTRUM

KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT

IIIA006 52.005.0 HOLLYWOOD STORAGE BASEMENT COMP S00W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SC AND G FOR SA

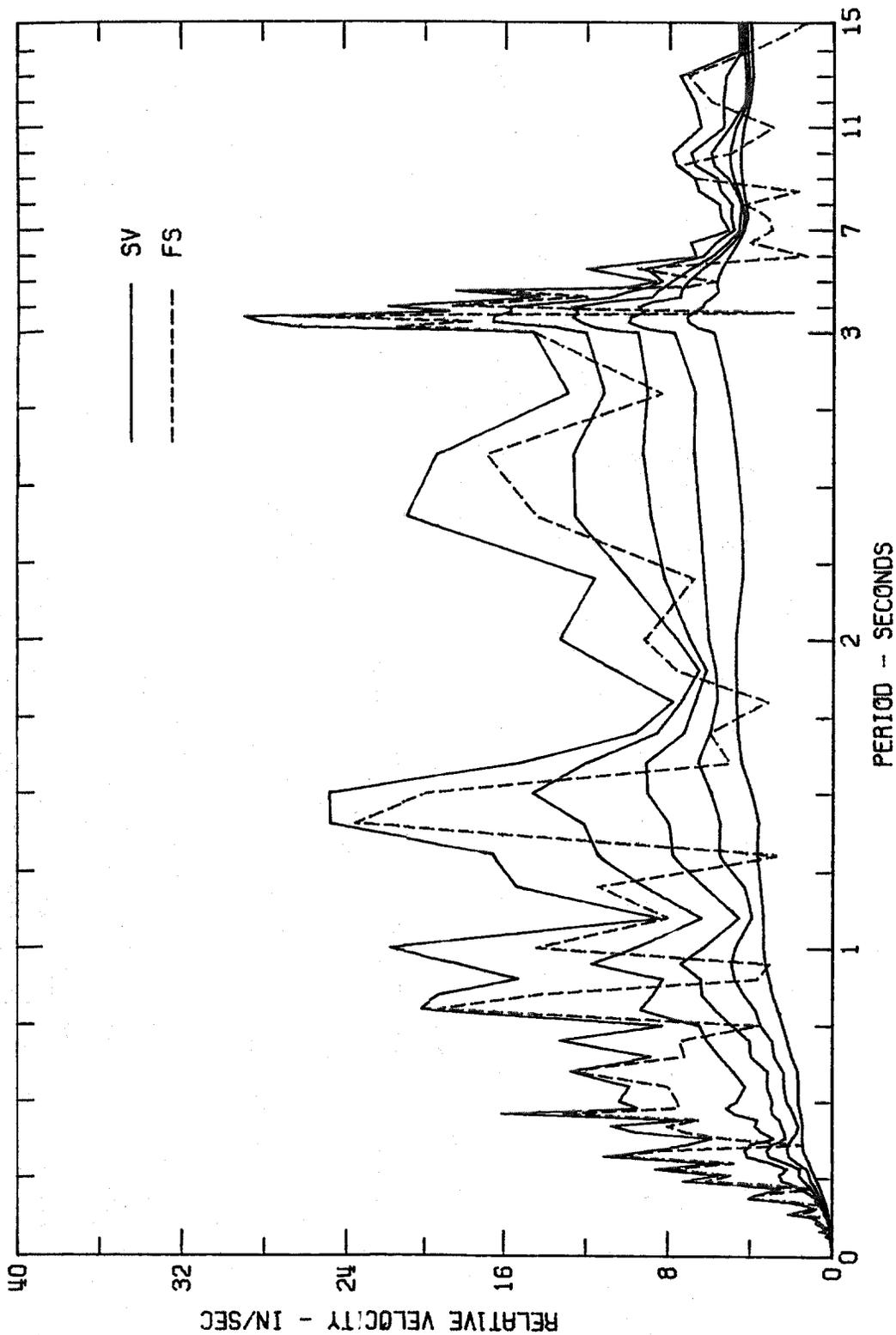
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IIIA006 52.005.0 HOLLYWOOD STORAGE BASEMENT COMP 500H

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SC AND G FOR SA

PER	DAMPING = 0 PERCENT					DAMPING = 2 PERCENT					DAMPING = 5 PERCENT					DAMPING = 10 PERCENT					DAMPING = 20 PERCENT										
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RELATIVE VELOCITY RESPONSE SPECTRUM
KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT
111A006 52.005.0 HOLLYWOOD STORAGE BASEMENT COMP N90E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

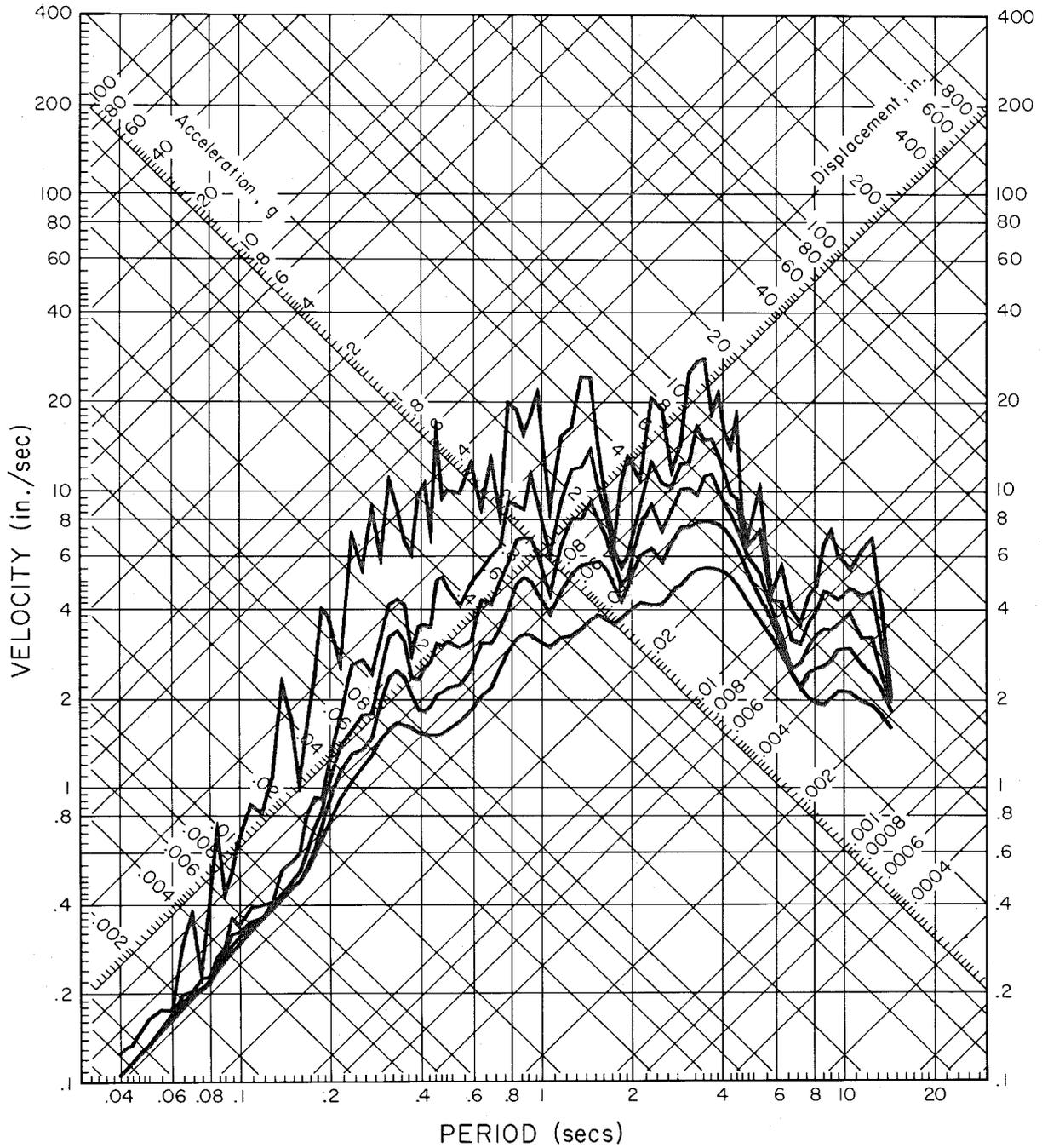


RESPONSE SPECTRUM

KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT

IIIA006 52.005.0 HOLLYWOOD STORAGE BASEMENT COMP N90E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT
IIIA006 52.005.0 HOLLYWOOD STORAGE BASEMENT CCMP N90E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SC AND G FOR SA

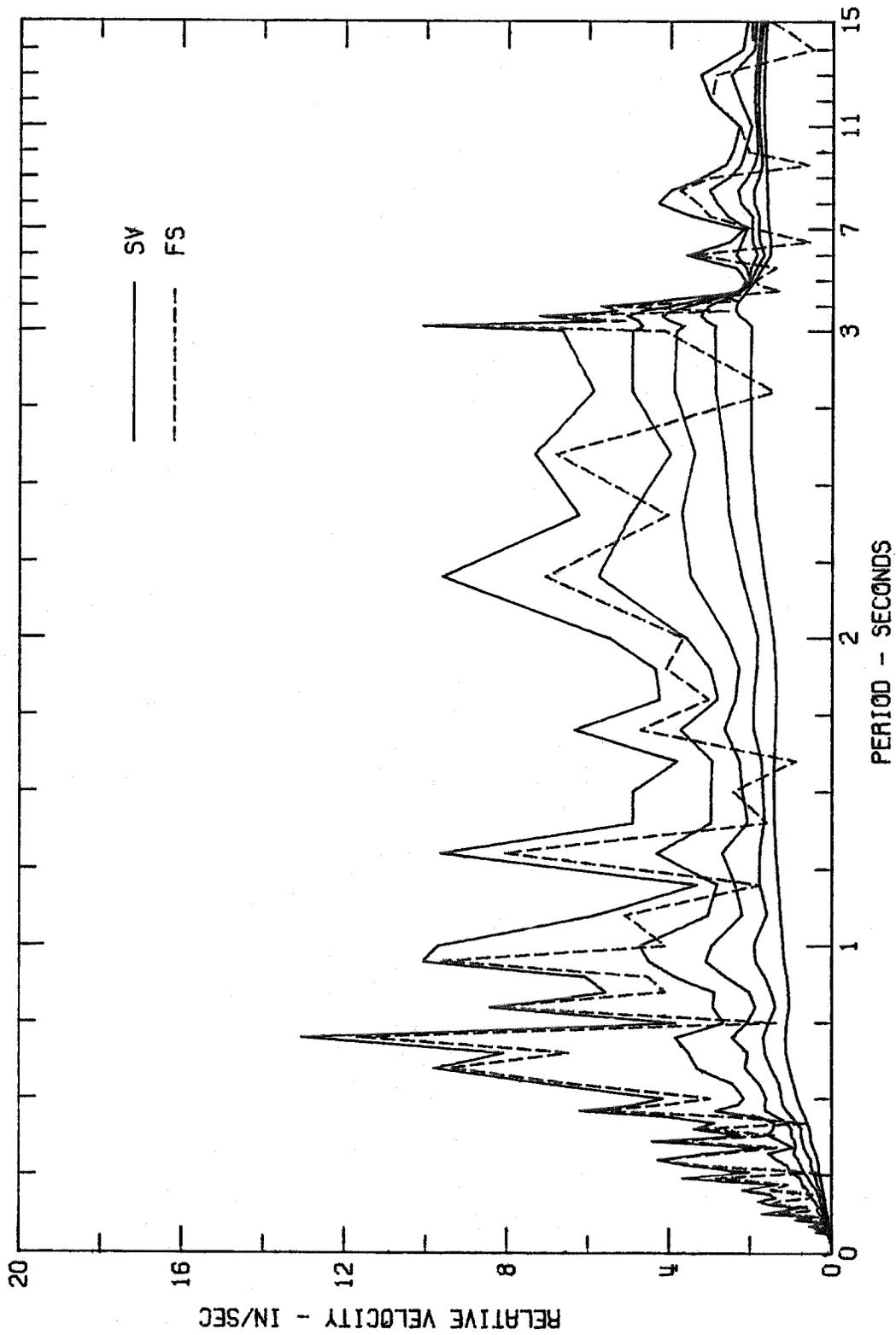
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0.190	410-2	125-3	410-2	355-3	415-2	282-4	795-3	799-4	932-3	257-4	656-3	736-4	852-3	225-4	545-3	657-4	760-3	208-4	400-3	601-4	688-3	225-4	545-3	657-4	760-3	208-4	400-3	601-4	688-3	225-4
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111AC06 52.005.0 HOLLYWOOD STORAGE EASEMENT CCMP N90E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SC AND G FOR SA

PER	DAMPING = 0 PERCENT					DAMPING = 2 PERCENT					DAMPING = 5 PERCENT					DAMPING = 10 PERCENT					DAMPING = 20 PERCENT				
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0.90	366-2	228-2	153-1	287-3	159-1	127-2	826-2	161-3	892-2	102-2	642-2	130-3	718-2	757-3	476-2	578-4	525-2	486-3	308-2	668-4	339-2				
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1.10	802-2	154-2	842-2	130-3	882-2	109-2	637-2	921-4	625-2	808-3	453-2	686-4	461-2	691-3	391-2	594-4	395-2	536-3	337-2	485-4	306-2				
1.20	114-1	299-2	154-1	212-3	156-1	182-2	915-2	129-3	554-2	130-2	623-2	932-4	684-2	913-3	429-2	662-4	478-2	631-3	352-2	488-4	330-2				
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1.60	500-2	352-2	152-1	140-3	138-1	263-2	119-1	105-3	103-1	206-2	905-2	829-4	809-2	152-2	658-2	622-4	597-2	597-3	445-2	436-4	391-2				
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1.80	316-2	198-2	777-2	627-4	693-2	186-2	735-2	588-4	649-2	167-2	668-2	533-4	585-2	140-2	562-2	458-4	490-2	104-2	469-2	363-4	365-2				
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2.00	918-2	426-2	132-1	108-3	133-1	200-2	758-2	512-4	628-2	169-2	697-2	434-4	531-2	157-2	608-2	411-4	494-2	128-2	471-2	351-4	402-2				
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3.00	146-1	701-2	146-1	797-4	146-1	603-2	120-1	686-4	126-1	498-2	553-2	568-4	104-1	372-2	777-2	436-4	781-2	238-2	584-2	298-4	499-2				
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3.80	194-2	113-1	188-1	803-4	187-1	927-2	157-1	657-4	153-1	706-2	124-1	503-4	116-1	488-2	919-2	353-4	807-2	342-2	688-2	264-4	565-2				
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4.20	154-1	106-1	174-1	619-4	159-1	775-2	130-1	450-4	116-1	619-2	110-1	362-4	926-2	511-2	878-2	305-4	764-2	366-2	624-2	227-4	548-2				
4.40	120-1	998-2	143-1	527-4	142-1	700-2	107-1	370-4	100-1	597-2	881-2	318-4	852-2	502-2	743-2	276-4	717-2	369-2	587-2	214-4	527-2				
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5.00	576-2	565-2	865-2	231-4	710-2	534-2	834-2	218-4	671-2	494-2	785-2	204-4	621-2	435-2	706-2	186-4	547-2	344-2	567-2	168-4	433-2				
5.50	958-2	918-2	120-1	310-4	104-1	663-2	515-2	224-4	758-2	473-2	691-2	161-4	541-2	391-2	636-2	139-4	447-2	330-2	544-2	130-4	377-2				
6.00	128-2	441-2	669-2	125-4	461-2	420-2	634-2	119-4	440-2	395-2	587-2	114-4	413-2	362-2	554-2	109-4	380-2	316-2	506-2	109-4	331-2				
6.50	409-2	596-2	657-2	144-4	576-2	450-2	571-2	109-4	435-2	345-2	514-2	847-5	334-2	320-2	490-2	841-5	309-2	297-2	466-2	909-5	287-2				
7.00	298-2	454-2	549-2	795-5	366-2	375-2	500-2	683-5	314-2	323-2	456-2	601-5	258-2	276-2	442-2	639-5	248-2	279-2	435-2	764-5	251-2				
7.50	321-2	437-2	549-2	934-5	459-2	475-2	496-2	762-5	373-2	397-2	448-2	644-5	312-2	320-2	445-2	559-5	251-2	264-2	428-2	582-5	207-2				
8.00	431-2	584-2	557-2	947-5	494-2	550-2	552-2	779-5	406-2	458-2	477-2	655-5	338-2	350-2	465-2	534-5	259-2	270-2	439-2	533-5	199-2				
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9.00	757-2	114-1	766-2	129-4	758-2	698-2	674-2	791-5	462-2	530-2	584-2	607-5	350-2	415-2	503-2	490-5	275-2	315-2	454-2	471-5	208-2				
10.00	495-2	999-2	783-2	102-4	628-2	705-2	696-2	721-5	443-2	584-2	597-2	605-5	367-2	479-2	506-2	516-5	301-2	348-2	453-2	459-5	219-2				
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12.00	598-2	123-1	677-2	880-5	648-2	873-2	538-2	621-5	457-2	628-2	429-2	459-5	329-2	508-2	415-2	393-5	265-2	386-2	405-2	391-5	202-2				
13.00	709-2	146-1	747-2	889-5	710-2	976-2	523-2	591-5	472-2	682-2	425-2	416-5	329-2	512-2	411-2	345-5	247-2	406-2	392-2	351-5	196-2				
14.00	395-2	920-2	459-2	480-5	413-2	691-2	445-2	360-5	310-2	544-2	435-2	292-5	244-2	489-2	420-2	291-5	219-2	405-2	399-2	319-5	182-2				
15.00	123-2	508-2	464-2	230-5	212-2	496-2	447-2	227-5	208-2	475-2	436-2	227-5	200-2	448-2	423-2	240-5	188-2	392-2	403-2	287-5	164-2				

RELATIVE VELOCITY RESPONSE SPECTRUM
KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

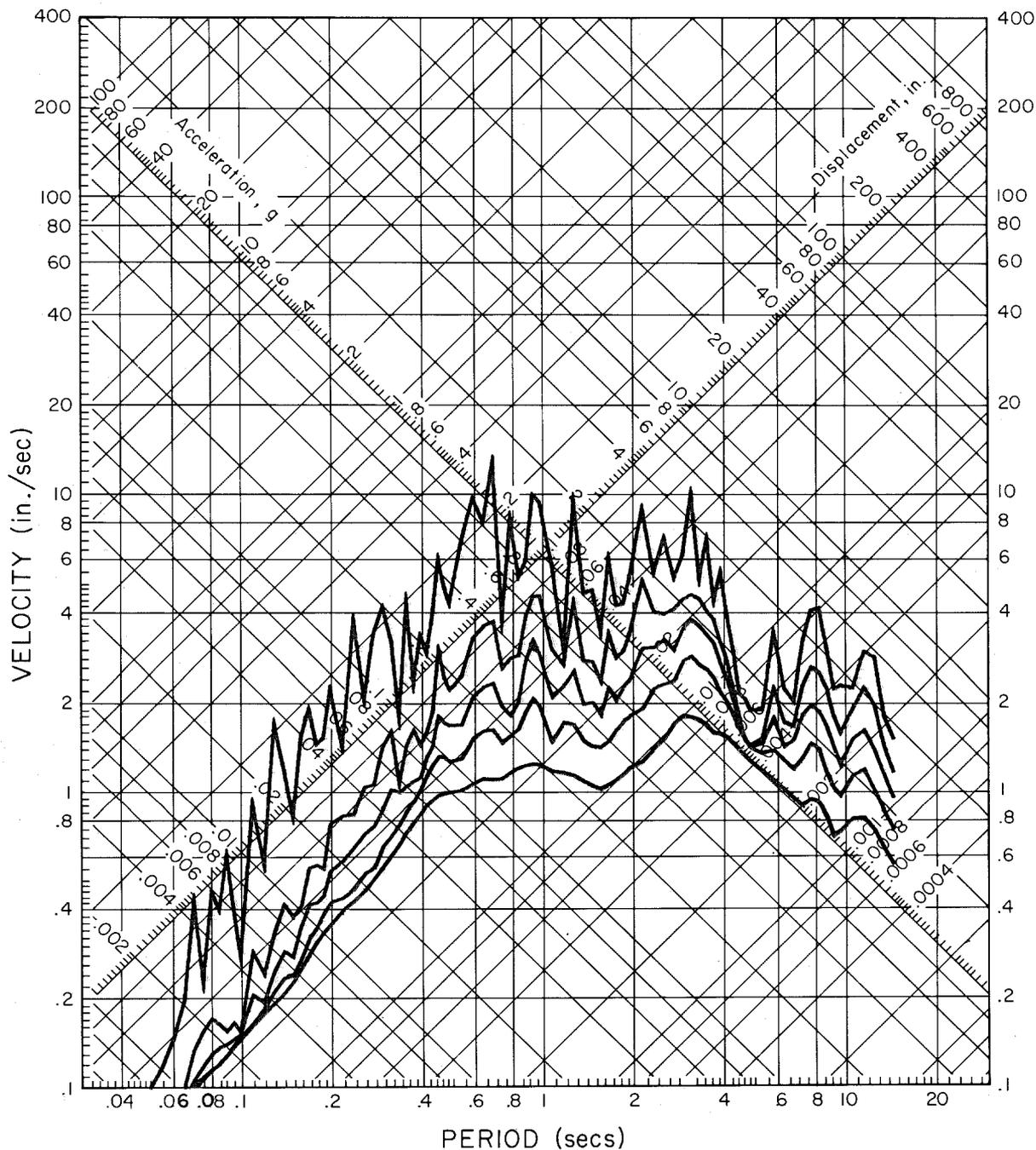


RESPONSE SPECTRUM

KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT

111A006 52.005.0 HOLLYWOOD STORAGE BASEMENT COMP VERT

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT
IIIIA006 52.005.0 HOLLYWOOD STORAGE BASEMENT CGMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SC AND G FOR SA

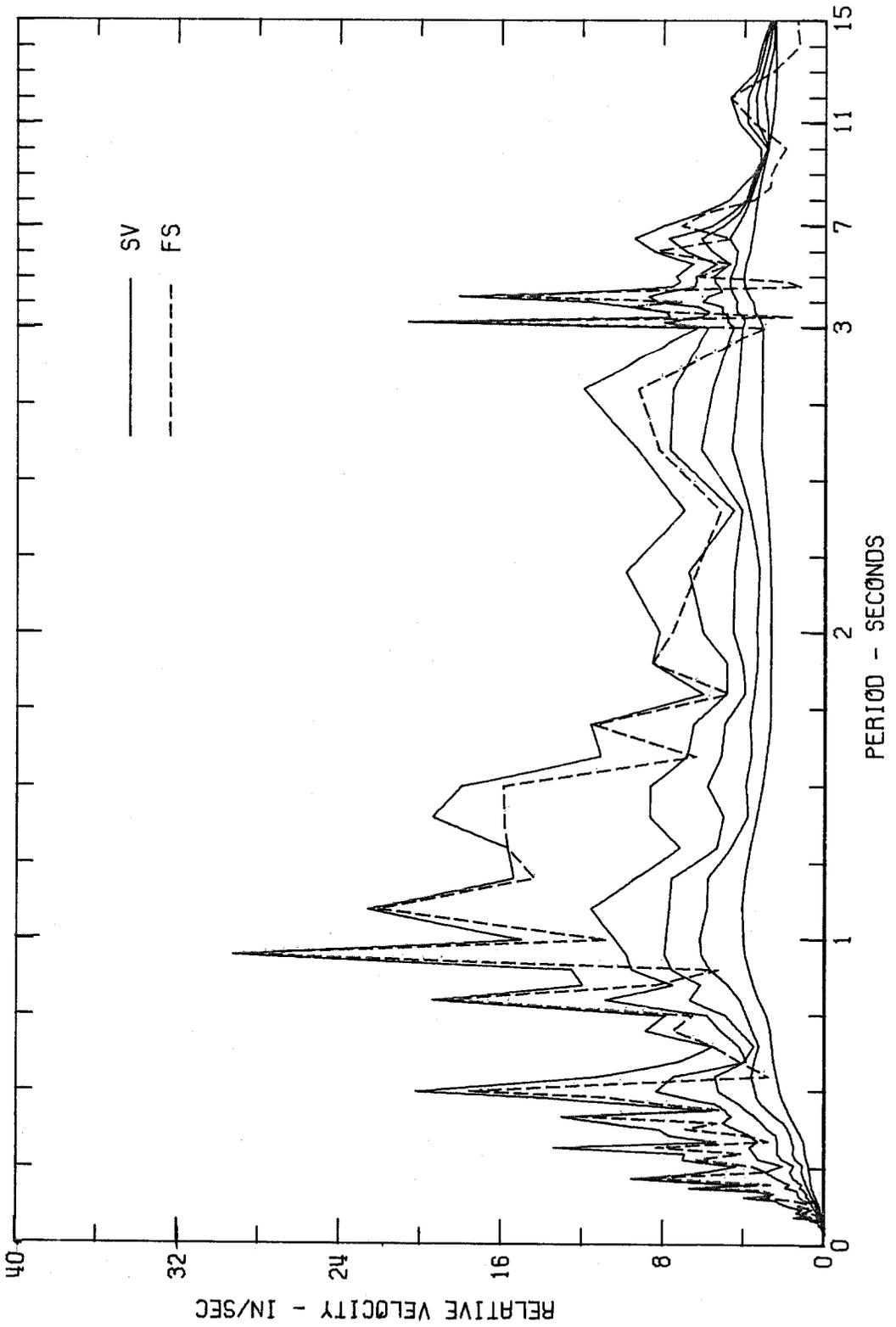
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0.040	170-4	456-6	259-4	291-4	716-4	361-6	202-4	230-4	567-4	360-6	167-4	230-4	565-4	359-6	135-4	230-4	565-4	359-6	101-4	230-4	565-4	359-6	101-4	230-4	564-4
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0.070	348-3	487-5	379-3	101-3	437-3	155-5	121-3	322-4	139-3	139-3	122-5	511-4	256-4	110-3	239-4	103-3	239-4	113-5	444-4	237-4	101-3	113-5	444-4	237-4	101-3
0.075	844-4	276-5	207-3	502-4	231-3	192-5	154-3	349-4	161-3	146-5	108-3	263-4	122-3	133-5	779-4	244-4	112-3	131-5	535-4	239-4	109-3	131-5	535-4	239-4	109-3
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IIIA006 52.005.0 HOLLYWOOD STORAGE BASEMENT CCMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

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2.00	365-2	172-2	548-2	441-4	542-2	111-2	358-2	286-4	351-2	780-3	257-2	200-4	245-2	592-3	182-2	395-3	143-2	114-4	124-2						
2.20	706-2	318-2	959-2	673-4	910-2	183-2	574-2	388-4	524-2	108-2	349-2	230-4	310-2	688-3	223-2	456-3	167-2	110-4	130-2						
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4.60	128-2	160-2	227-2	778-5	219-2	135-2	234-2	656-5	185-2	130-2	234-2	637-5	178-2	122-2	225-2	623-5	167-2	605-5	143-2						
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5.50	138-2	170-2	237-2	575-5	194-2	137-2	213-2	464-5	156-2	130-2	226-2	414-5	201-2	191-2	193-2	319-5	150-2	226-5	972-3						
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7.00	192-2	229-2	219-2	478-5	205-2	191-2	210-2	399-5	171-2	171-2	198-2	356-5	153-2	136-2	182-2	308-5	122-2	294-5	576-3						
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13.00	287-2	597-2	326-2	361-5	288-2	414-2	250-2	250-5	200-2	294-2	190-2	178-5	142-2	213-2	162-2	134-5	103-2	156-2	169-2	125-5	757-3				
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15.00	154-2	371-2	209-2	218-5	168-5	286-2	185-2	130-5	119-2	234-2	177-2	108-5	580-3	182-2	176-2	528-6	764-3	138-2	162-2	112-5	581-3				

RELATIVE VELOCITY RESPONSE SPECTRUM
KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

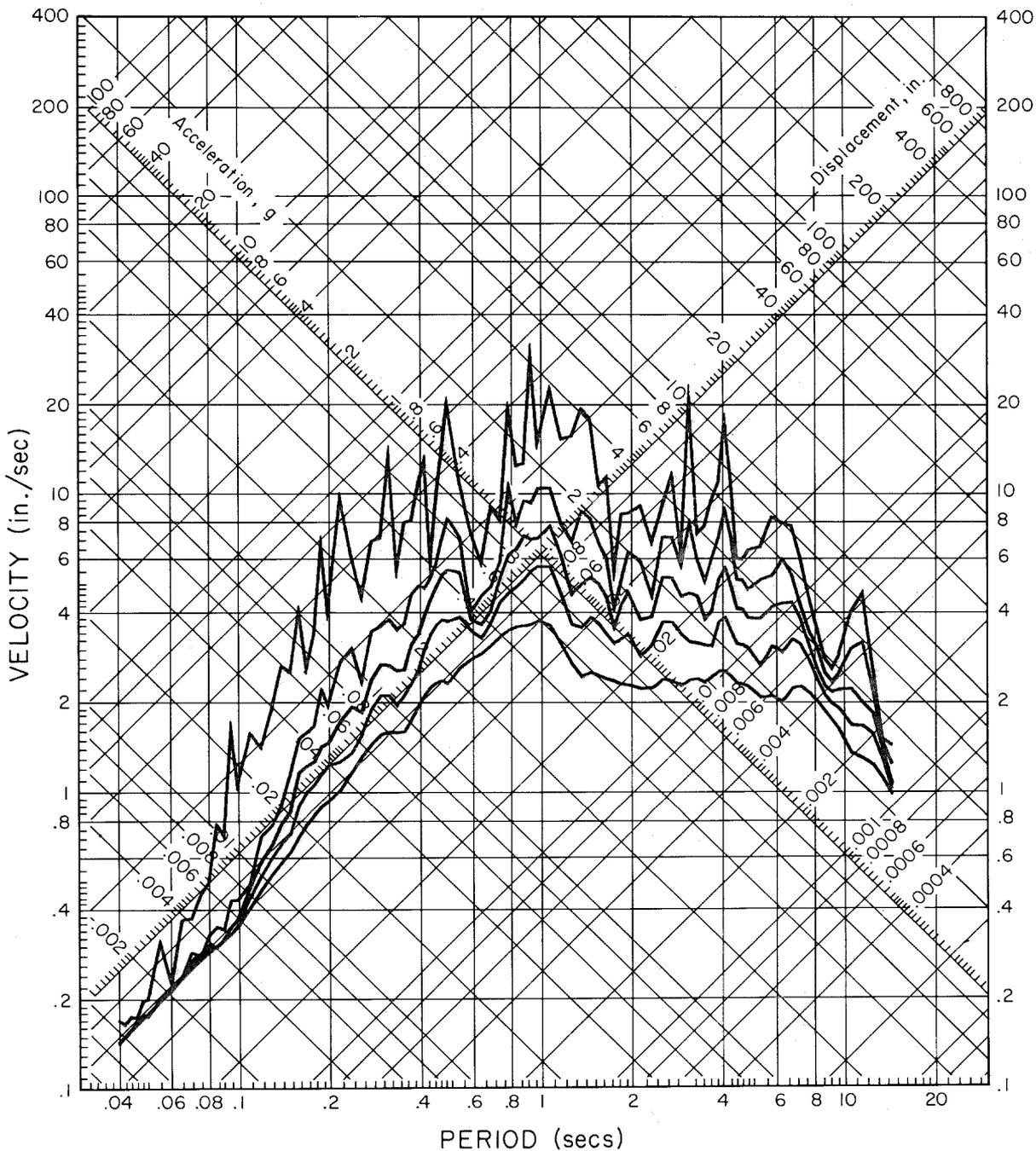


RESPONSE SPECTRUM

KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT

IIIA007 52.006.0 HOLLYWOOD STORAGE P.E. LOT COMP SOOW

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT
IIIIA007 52.006.0 HOLLYWOOD STORAGE P.E. LOT COMP SOOK

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

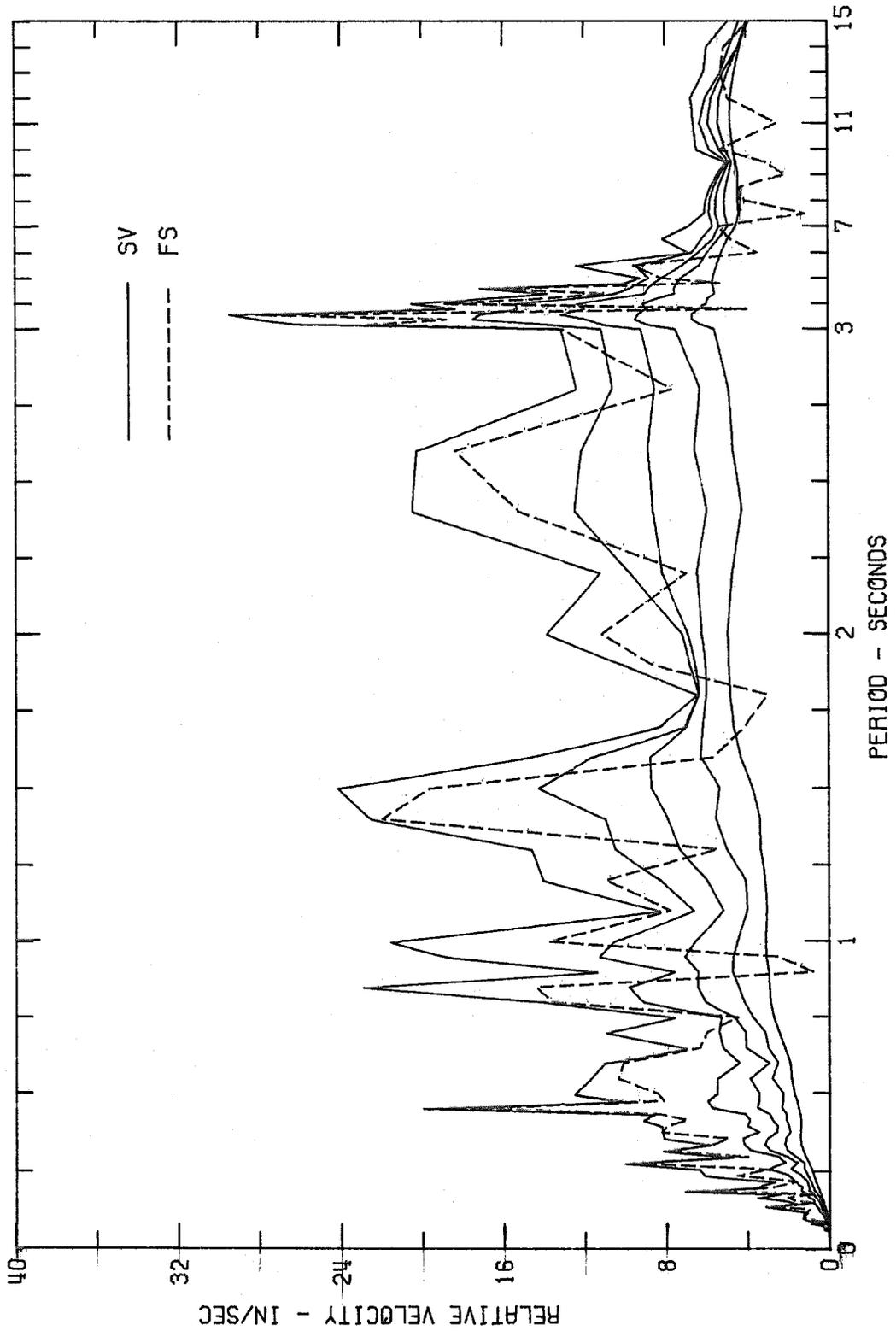
PER	DAMPING = 0 PERCENT					DAMPING = 2 PERCENT					DAMPING = 5 PERCENT					DAMPING = 10 PERCENT					DAMPING = 20 PERCENT										
	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	
O.040	376-4	110-5	495-4	709-4	174-3	929-6	246-4	594-4	146-3	933-6	933-6	231-4	597-4	146-3	933-6	217-4	597-4	146-3	932-6	932-6	932-6	932-6	932-6	932-6	932-6	932-6	932-6	932-6	932-6	932-6	932-6
O.042	159-4	112-5	406-4	654-4	168-3	103-5	259-4	598-4	154-3	103-5	252-4	599-4	154-3	103-5	252-4	238-4	599-4	154-3	102-5	154-3	102-5	154-3	102-5	154-3	102-5	154-3	102-5	154-3	102-5	154-3	
O.044	391-4	126-5	513-4	666-4	180-3	114-5	279-4	604-4	163-3	114-5	278-4	602-4	162-3	113-5	113-5	266-4	600-4	162-3	113-5	113-5	113-5	113-5	241-4	599-4	161-3	161-3	161-3	161-3	161-3	161-3	161-3
O.046	420-4	130-5	655-4	629-4	178-3	126-5	327-4	612-4	172-3	125-5	313-4	606-4	171-3	124-5	124-5	296-4	601-4	169-3	123-5	123-5	123-5	123-5	266-4	599-4	168-3	168-3	168-3	168-3	168-3	168-3	
O.048	318-4	155-5	609-4	688-4	203-3	139-5	377-4	620-4	182-3	136-5	353-4	605-4	178-3	135-5	135-5	328-4	601-4	177-3	134-5	134-5	134-5	134-5	295-4	599-4	176-3	176-3	176-3	176-3	176-3	176-3	
O.050	585-4	163-5	764-4	669-4	205-3	142-5	431-4	582-4	178-3	145-5	396-4	596-4	183-3	146-5	146-5	363-4	600-4	184-3	146-5	146-5	146-5	146-5	324-4	600-4	183-3	183-3	183-3	183-3	183-3	183-3	
O.055	371-4	279-5	167-3	944-4	319-3	182-5	637-4	615-4	208-3	178-5	524-4	604-4	204-3	177-5	177-5	458-4	601-4	203-3	177-5	177-5	177-5	177-5	400-4	601-4	202-3	202-3	202-3	202-3	202-3	202-3	
O.060	108-3	220-5	124-3	627-4	231-3	215-5	648-4	611-4	225-3	209-5	601-4	596-4	614-4	219-3	212-5	212-5	603-4	222-3	211-5	211-5	211-5	211-5	479-4	603-4	221-3	221-3	221-3	221-3	221-3	221-3	
O.065	566-4	393-5	234-3	953-4	380-3	251-5	890-4	609-4	243-3	253-5	680-4	614-4	245-3	252-5	252-5	631-4	613-4	244-3	249-5	249-5	249-5	249-5	562-4	605-4	241-3	241-3	241-3	241-3	241-3	241-3	
O.070	281-3	426-5	298-3	889-4	382-3	327-5	993-4	682-4	294-3	309-5	803-4	647-4	277-3	297-5	297-5	695-4	622-4	267-3	289-5	289-5	289-5	289-5	633-4	607-4	259-3	259-3	259-3	259-3	259-3	259-3	
O.075	161-3	552-5	357-3	100-3	463-3	339-5	139-3	616-4	284-3	347-5	956-4	633-4	291-3	340-5	340-5	789-4	621-4	285-3	331-5	331-5	331-5	331-5	702-4	604-4	277-3	277-3	277-3	277-3	277-3	277-3	
O.080	755-4	656-5	460-3	104-3	515-3	428-5	165-3	684-4	336-3	398-5	108-3	637-4	313-3	381-5	381-5	886-4	609-4	299-3	373-5	373-5	373-5	373-5	817-4	600-4	293-3	293-3	293-3	293-3	293-3	293-3	
O.085	745-3	107-4	751-3	151-3	792-3	485-5	153-3	688-4	358-3	412-5	118-3	585-4	304-3	418-5	418-5	105-3	592-4	309-3	417-5	417-5	417-5	417-5	948-4	595-4	308-3	308-3	308-3	308-3	308-3	308-3	
O.090	201-3	103-4	653-3	130-3	722-3	502-5	198-3	634-4	350-3	470-5	149-3	594-4	328-3	425-5	425-5	122-3	587-4	325-3	464-5	464-5	464-5	464-5	110-3	589-4	324-3	324-3	324-3	324-3	324-3	324-3	
O.095	147-2	249-4	157-2	283-3	165-2	668-5	322-3	754-4	442-3	545-5	212-3	620-4	361-3	513-5	513-5	148-3	583-4	339-3	514-5	514-5	514-5	514-5	127-3	584-4	340-3	340-3	340-3	340-3	340-3	340-3	
O.100	168-3	171-4	911-3	175-3	107-2	703-5	305-3	718-4	441-3	607-5	271-3	725-4	490-3	792-5	792-5	164-3	591-4	363-3	571-5	571-5	571-5	571-5	182-3	624-4	358-3	358-3	358-3	358-3	358-3	358-3	
O.110	107-2	278-4	115-2	194-3	143-2	139-4	507-3	987-4	728-3	114-4	356-3	812-4	599-3	102-4	102-4	261-3	730-4	537-3	919-5	919-5	919-5	919-5	221-3	660-4	481-3	481-3	481-3	481-3	481-3	481-3	
O.130	132-2	399-4	181-2	241-3	193-2	163-4	591-3	989-4	788-3	140-4	410-3	855-4	680-3	126-4	126-4	313-3	768-4	612-3	111-4	111-4	111-4	111-4	261-3	685-4	540-3	540-3	540-3	540-3	540-3	540-3	
O.140	878-3	599-4	226-2	312-3	269-2	206-4	652-3	107-3	925-3	178-4	443-3	931-4	802-3	152-4	152-4	394-3	796-4	683-3	132-4	132-4	132-4	132-4	311-3	697-4	592-3	592-3	592-3	592-3	592-3	592-3	
O.150	181-2	610-4	246-2	277-3	255-2	283-4	105-2	128-3	118-2	210-4	748-3	954-4	881-3	176-4	176-4	640-3	806-4	738-3	153-4	153-4	153-4	153-4	383-3	722-4	641-3	641-3	641-3	641-3	641-3	641-3	
O.160	318-2	105-3	404-2	420-3	413-2	293-4	127-2	157-3	154-2	302-4	903-3	120-3	118-2	233-4	233-4	640-3	952-4	916-3	184-4	184-4	184-4	184-4	455-3	766-4	724-3	724-3	724-3	724-3	724-3	724-3	
O.170	252-2	712-4	262-2	252-3	263-2	437-4	131-2	155-3	161-2	337-4	889-3	120-3	124-2	276-4	276-4	699-3	995-4	102-2	215-4	215-4	215-4	215-4	523-3	793-4	795-3	795-3	795-3	795-3	795-3	795-3	
O.180	304-2	995-4	346-2	314-3	347-2	487-4	138-2	154-3	170-2	370-4	100-2	117-3	129-2	309-4	309-4	779-3	982-4	108-2	245-4	245-4	245-4	245-4	578-3	811-4	856-3	856-3	856-3	856-3	856-3	856-3	
O.190	650-2	206-3	678-2	582-3	684-2	677-4	193-2	192-3	223-2	439-4	122-2	124-3	145-2	353-4	353-4	842-3	103-3	116-2	275-4	275-4	275-4	275-4	633-3	816-4	911-3	911-3	911-3	911-3	911-3	911-3	
O.200	266-2	130-3	408-2	332-3	624-2	118-3	293-2	211-3	309-2	750-4	170-2	170-2	175-2	452-4	452-4	103-2	994-4	129-2	363-4	363-4	363-4	363-4	696-3	799-4	103-2	103-2	103-2	103-2	103-2	103-2	
O.220	875-2	343-3	964-2	726-3	982-2	974-4	241-2	205-3	278-2	615-4	155-2	131-3	175-2	452-4	452-4	103-2	994-4	129-2	363-4	363-4	363-4	363-4	696-3	799-4	103-2	103-2	103-2	103-2	103-2	103-2	
O.240	286-2	238-3	605-2	423-3	624-2	118-3	293-2	211-3	309-2	750-4	170-2	170-2	175-2	452-4	452-4	103-2	994-4	129-2	363-4	363-4	363-4	363-4	696-3	799-4	103-2	103-2	103-2	103-2	103-2	103-2	
O.260	367-2	187-3	440-2	284-3	453-2	982-4	204-2	148-3	237-2	775-4	152-2	116-3	187-2	658-4	658-4	110-2	100-3	159-2	558-4	558-4	558-4	558-4	804-3	870-4	135-2	135-2	135-2	135-2	135-2	135-2	
O.280	635-2	311-3	708-2	406-3	699-2	156-3	327-2	204-3	350-2	108-3	212-2	141-3	242-2	861-4	861-4	144-2	114-3	193-2	663-4	663-4	663-4	663-4	902-3	908-4	148-2	148-2	148-2	148-2	148-2	148-2	
O.300	410-2	344-3	697-2	391-3	720-2	174-3	350-2	199-3	365-2	129-3	235-2	147-3	270-2	102-3	102-3	157-2	117-3	214-2	757-4	757-4	757-4	757-4	985-3	901-4	158-2	158-2	158-2	158-2	158-2	158-2	
O.320	838-2	695-3	134-1	694-3	136-1	196-3	371-2	195-3	385-2	137-3	233-2	139-3	269-2	108-3	108-3	151-2	109-3	213-2	823-4	823-4	823-4	823-4	100-2	867-4	161-2	161-2	161-2	161-2	161-2	161-2	
O.340	278-2	304-3	538-2	269-3	562-2	191-3	333-2	169-3	354-2	139-3	235-2	139-3	235-2	123-3	123-3	162-2	966-4	197-2	870-4	870-4	870-4	870-4	106-2	812-4	160-2	160-2	160-2	160-2	160-2	160-2	
O.360	390-2	462-3	778-2	365-3	807-2	214-3	372-2	169-3	374-2	149-3	242-2	117-3	260-2	123-3	123-3	169-2	979-4	125-3	930-4	930-4	930-4	930-4	120-2	762-4	162-2	162-2	162-2	162-2	162-2	162-2	
O.380	689-2	497-3	826-2	352-3	821-2	284-3	439-2	201-3	469-2	192-3	284-2	137-3	318-2	142-3	142-3	184-2	102-3	235-2	108-3	108-3	108-3	108-3	138-2	802-4	179-2	179-2	179-2	179-2	179-2	179-2	
O.400	531-2	686-3	108-1	438-3	107-1	317-3	506-2	203-3	499-2	219-3	345-2	139-3	344-2	166-3	166-3	204-2	108-3	260-2	125-3	125-3	125-3	125-3	153-2	842-4	197-2	197-2	197-2	197-2	197-2	197-2	
O.420	123-1	881-3	130-1	511-3	131-1	327-3	463-2	190-3	489-2	266-3	345-2	154-3	398-2	205-3	205-3	249-2	120-3	307-2	144-3	144-3	144-3	144-3	171-2	879-4	215-2	215-2	215-2	215-2	215-2	215-2	
O.440	522-2	417-3	571-2	220-3	596-2	374-3	493-2	197-3	534-2	316-3	393-2	166-3	451-2	240-3	240-3	285-2	129-3	344-2	160-3	160-3	160-3	160-3	186-2	892-4	229-2	229-2	229-2	229-2	229-2	229-2	
O.460	839-2	728-3	984-2	352-3	995-2	438-3	547-2	211-3	599-2	364-3	427-2	176-3	497-2	271-3	271-3	317-2	132-3	370													

IIIA007 52.006.0 HOLLYWOOD STORAGE P.E. LOT COMP S00W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT				DAMPING = 2 PERCENT				DAMPING = 5 PERCENT				DAMPING = 10 PERCENT				DAMPING = 20 PERCENT				
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	656-2	978-3	791-2	177-3	819-2	722-3	586-2	131-3	604-2	630-3	494-2	114-3	528-2	524-3	389-2	971-4	439-2	404-3	290-2	783-4	338-2
0.80	189-1	249-2	194-1	398-3	195-1	136-2	108-1	217-3	107-1	808-3	671-2	129-3	634-2	600-3	422-2	979-4	471-2	452-3	327-2	779-4	355-2
0.85	842-2	169-2	120-1	240-3	125-1	108-2	751-2	153-3	799-2	894-3	618-2	127-3	661-2	668-3	482-2	970-4	494-2	494-3	356-2	762-4	365-2
0.90	528-2	183-2	125-1	232-3	128-1	137-2	959-2	174-3	962-2	104-2	761-2	132-3	731-2	748-3	571-2	960-4	522-2	525-3	378-2	729-4	366-2
0.95	292-1	444-2	293-1	503-3	293-1	141-2	984-2	160-3	935-2	107-2	795-2	121-3	708-2	845-3	614-2	975-4	559-2	561-3	398-2	686-4	371-2
1.00	108-1	237-2	150-1	243-3	149-1	167-2	104-1	171-3	105-1	113-2	788-2	117-3	716-2	919-3	620-2	962-4	577-2	606-3	405-2	676-4	380-2
1.10	221-1	398-2	226-1	336-3	227-1	184-2	115-1	155-3	105-1	137-2	771-2	117-3	788-2	101-2	583-2	876-4	577-2	641-3	411-2	601-4	366-2
1.20	143-1	295-2	154-1	210-3	154-1	152-2	938-2	108-3	796-2	119-2	761-2	854-4	625-2	886-3	580-2	648-4	464-2	599-3	395-2	480-4	313-2
1.30	157-1	326-2	157-1	197-3	157-1	143-2	717-2	871-4	695-2	958-3	533-2	585-4	463-2	765-3	463-2	482-4	369-2	561-3	370-2	389-4	271-2
1.40	159-1	434-2	180-1	194-3	179-1	197-2	866-2	899-4	828-2	125-2	584-2	587-4	502-2	800-3	394-2	432-4	389-2	607-3	310-2	298-4	254-2
1.50	159-1	428-2	180-1	194-3	179-1	197-2	866-2	899-4	828-2	125-2	584-2	587-4	502-2	800-3	394-2	432-4	389-2	607-3	310-2	298-4	254-2
1.60	640-2	272-2	111-1	108-3	107-1	174-2	681-2	699-4	686-2	127-2	513-2	513-4	501-2	936-3	365-2	385-4	367-2	627-3	289-2	277-4	246-2
1.70	114-1	311-2	116-1	110-3	114-1	163-2	651-2	580-4	605-2	122-2	497-2	434-4	451-2	920-3	373-2	331-4	340-2	653-3	271-2	246-4	241-2
1.80	475-2	157-2	604-2	497-4	549-2	119-2	487-2	378-4	418-2	102-2	398-2	325-4	359-2	907-3	349-2	293-4	316-2	679-3	271-2	232-4	237-2
1.90	857-2	259-2	857-2	734-4	857-2	156-2	487-2	444-4	518-2	130-2	411-2	371-4	430-2	997-3	336-2	289-4	329-2	699-3	269-2	218-4	231-2
2.00	758-2	275-2	821-2	703-4	864-2	204-2	607-2	523-4	642-2	150-2	458-2	385-4	471-2	108-2	339-2	284-4	339-2	734-3	269-2	209-4	230-2
2.20	640-2	321-2	990-2	679-4	917-2	209-2	678-2	442-4	596-2	133-2	449-2	284-4	382-2	100-2	326-2	217-4	286-2	785-3	272-2	187-4	224-2
2.40	519-2	263-2	697-2	467-4	689-2	174-2	452-2	309-4	456-2	148-2	412-2	265-4	389-2	120-2	376-2	217-4	315-2	858-3	287-2	170-4	224-2
2.60	823-2	377-2	929-2	571-4	912-2	297-2	770-2	449-4	717-2	218-2	616-2	332-4	527-2	154-2	463-2	241-4	374-2	995-3	317-2	170-4	240-2
2.80	925-2	520-2	119-1	678-4	116-1	320-2	752-2	418-4	718-2	233-2	557-2	306-4	525-2	166-2	432-2	221-4	373-2	105-2	311-2	157-4	236-2
3.00	294-2	304-2	633-2	346-4	638-2	276-2	578-2	313-4	478-2	217-2	454-2	248-4	456-2	162-2	409-2	187-4	340-2	109-2	310-2	154-4	229-2
3.20	204-1	106-1	206-1	105-3	208-1	406-2	799-2	406-4	798-2	238-2	484-2	239-4	468-2	163-2	399-2	168-4	321-2	122-2	319-2	153-4	239-2
3.40	165-2	400-2	767-2	354-4	739-2	326-2	609-2	289-4	603-2	246-2	481-2	219-4	382-2	172-2	408-2	162-4	318-2	130-2	334-2	148-4	241-2
3.60	786-2	451-2	779-2	356-4	787-2	292-2	574-2	231-4	510-2	219-2	512-2	174-4	382-2	179-2	438-2	151-4	312-2	134-2	349-2	139-4	235-2
3.80	966-2	585-2	966-2	414-4	967-2	372-2	632-2	264-4	616-2	249-2	511-2	178-4	412-2	187-2	442-2	138-4	310-2	149-2	354-2	129-4	247-2
4.00	711-2	705-2	117-1	450-4	110-1	461-2	836-2	295-4	724-2	332-2	609-2	214-4	522-2	238-2	437-2	158-4	374-2	163-2	359-2	119-4	256-2
4.20	158-1	118-1	181-1	686-4	177-1	592-2	875-2	343-4	885-2	380-2	579-2	222-4	568-2	259-2	451-2	157-4	388-2	170-2	377-2	117-4	255-2
4.40	107-1	779-2	116-1	411-4	111-1	507-2	776-2	268-4	724-2	345-2	511-2	183-4	492-2	242-2	464-2	133-4	346-2	171-2	390-2	110-4	245-2
4.60	123-2	444-2	754-2	214-4	607-2	380-2	648-2	184-4	519-2	304-2	527-2	148-4	415-2	231-2	471-2	116-4	315-2	170-2	399-2	101-4	233-2
4.80	195-2	462-2	717-2	205-4	605-2	394-2	638-2	175-4	516-2	315-2	547-2	141-4	412-2	239-2	473-2	111-4	313-2	177-2	403-2	929-5	232-2
5.00	626-2	517-2	737-2	211-4	649-2	381-2	640-2	156-4	479-2	306-2	554-2	127-4	385-2	242-2	470-2	105-4	305-2	181-2	404-2	890-5	227-2
5.50	473-2	582-2	656-2	196-4	665-2	455-2	537-2	154-4	520-2	336-2	472-2	114-4	384-2	233-2	443-2	840-5	267-2	183-2	394-2	805-5	209-2
6.00	834-2	797-2	850-2	226-4	835-2	508-2	692-2	144-4	532-2	401-2	564-2	115-4	420-2	295-2	436-2	870-5	309-2	201-2	373-2	749-5	211-2
6.50	465-2	828-2	946-2	200-4	800-2	630-2	776-2	152-4	609-2	446-2	615-2	109-4	431-2	305-2	476-2	758-5	295-2	209-2	364-2	636-5	202-2
7.00	711-2	872-2	799-2	182-4	783-2	597-2	558-2	124-4	536-2	485-2	501-2	102-4	435-2	365-2	435-2	780-5	328-2	250-2	352-2	569-5	225-2
7.50	587-2	723-2	618-2	131-4	606-2	505-2	463-2	922-5	423-2	451-2	425-2	829-5	378-2	372-2	400-2	715-5	312-2	271-2	345-2	558-5	227-2
8.00	349-2	568-2	473-2	907-5	446-2	440-2	390-2	705-5	345-2	395-2	386-2	644-5	310-2	351-2	373-2	600-5	275-2	276-2	336-2	525-5	216-2
8.50	271-2	475-2	415-2	672-5	351-2	414-2	370-2	586-5	306-2	352-2	363-2	507-5	260-2	323-2	351-2	495-5	239-2	273-2	324-2	479-5	202-2
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9.50	236-2	392-2	319-2	445-5	259-2	355-2	315-2	403-5	235-2	327-2	312-2	375-5	217-2	300-2	307-2	376-5	198-2	264-2	297-2	397-5	175-2
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14.00	129-2	338-2	315-2	176-5	151-2	328-2	299-2	173-5	147-2	314-2	278-2	172-5	141-2	290-2	253-2	178-5	130-2	250-2	245-2	197-5	112-2
15.00	140-2	347-2	272-2	157-5	145-2	299-2	265-2	136-5	125-2	257-2	257-2	120-5	107-2	247-2	251-2	138-5	103-2	236-2	250-2	173-5	992-3

RELATIVE VELOCITY RESPONSE SPECTRUM
KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT
IIIA007 52.006.0 HOLLYWOOD STORAGE P.E. LOT COMP N90E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

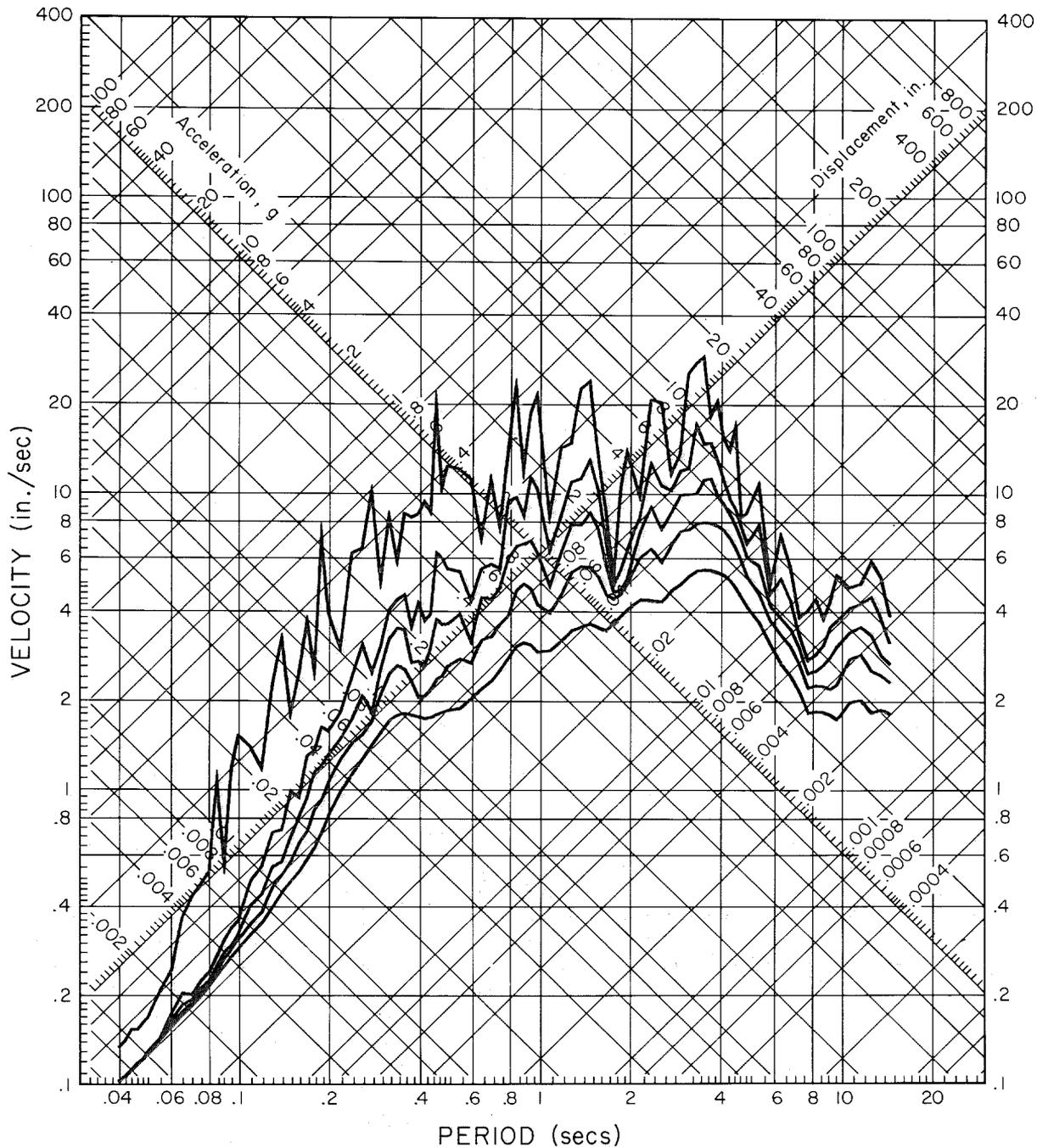


RESPONSE SPECTRUM

KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT

IIIA007 52.006.0 HOLLYWOOD STORAGE P.E. LOT COMP N90E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT
IIIA007 52.006.0 HOLLYWOOD STORAGE P.E. LOT COMP N90E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

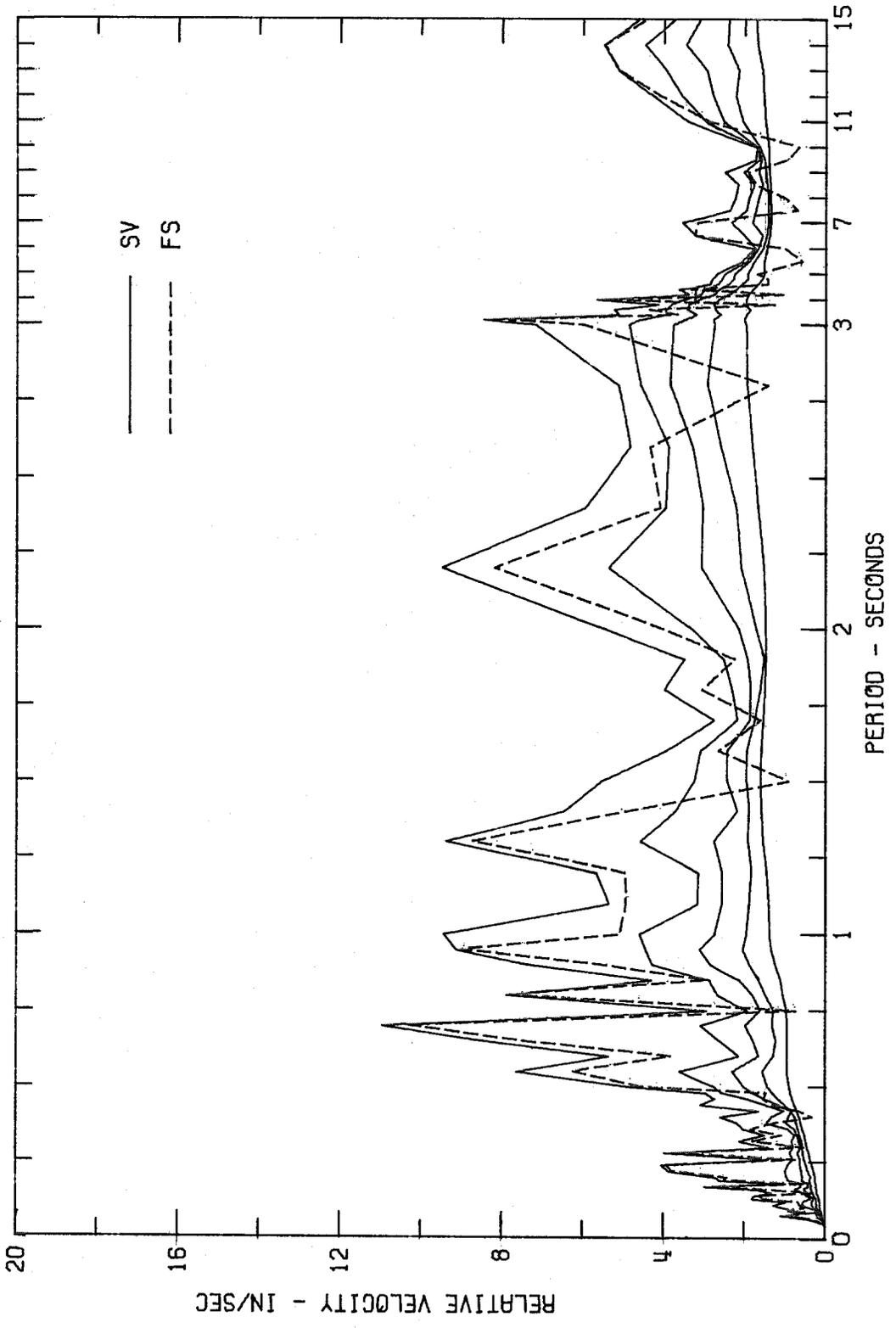
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0.040	429-4	865-6	588-4	553-4	135-3	664-6	351-4	424-4	104-3	661-6	309-4	422-4	103-3	659-6	278-4	421-4	103-3	658-6	228-4	421-4	103-3
0.042	495-4	962-6	583-4	557-4	143-3	729-6	360-4	422-4	109-3	724-6	323-4	420-4	108-3	726-6	292-4	421-4	108-3	726-6	242-4	421-4	108-3
0.044	653-4	109-5	785-4	579-4	156-3	799-6	386-4	422-4	114-3	798-6	334-4	421-4	113-3	797-6	302-4	421-4	113-3	798-6	253-4	422-4	114-3
0.046	636-4	114-5	773-4	552-4	156-3	879-6	402-4	423-4	120-3	873-6	351-4	422-4	119-3	873-6	310-4	422-4	119-3	874-6	262-4	423-4	119-3
0.048	636-4	125-5	766-4	558-4	164-3	947-6	418-4	420-4	123-3	950-6	363-4	421-4	124-3	951-6	316-4	422-4	124-3	954-6	270-4	424-4	124-3
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0.055	834-4	186-5	123-3	629-4	212-3	128-5	482-4	434-4	146-3	127-5	425-4	431-4	145-3	127-5	346-4	431-4	145-3	126-5	294-4	430-4	145-3
0.060	590-4	238-5	128-3	677-4	249-3	170-5	532-4	484-4	178-3	162-5	469-4	462-4	170-3	156-5	384-4	445-4	164-3	152-5	338-4	433-4	159-3
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I11A007 52.006.0 HOLLYWOOD STORAGE P.E. LOT COMP N90E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT				DAMPING = 2 PERCENT				DAMPING = 5 PERCENT				DAMPING = 10 PERCENT				DAMPING = 20 PERCENT				
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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3.00	130-1	656-2	131-1	746-4	137-1	574-2	111-1	653-4	120-1	475-2	922-2	544-4	996-2	358-2	751-2	419-4	750-2	237-2	560-2	293-4	497-2
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10.00	532-2	848-2	646-2	867-5	532-2	597-2	581-2	612-5	375-2	489-2	532-2	510-5	307-2	364-2	501-2	399-5	228-2	278-2	463-2	371-5	199-2
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RELATIVE VELOCITY RESPONSE SPECTRUM
KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT
111A007 52.006.0 HOLLYWOOD STORAGE P.E. LOT COMP VERT
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

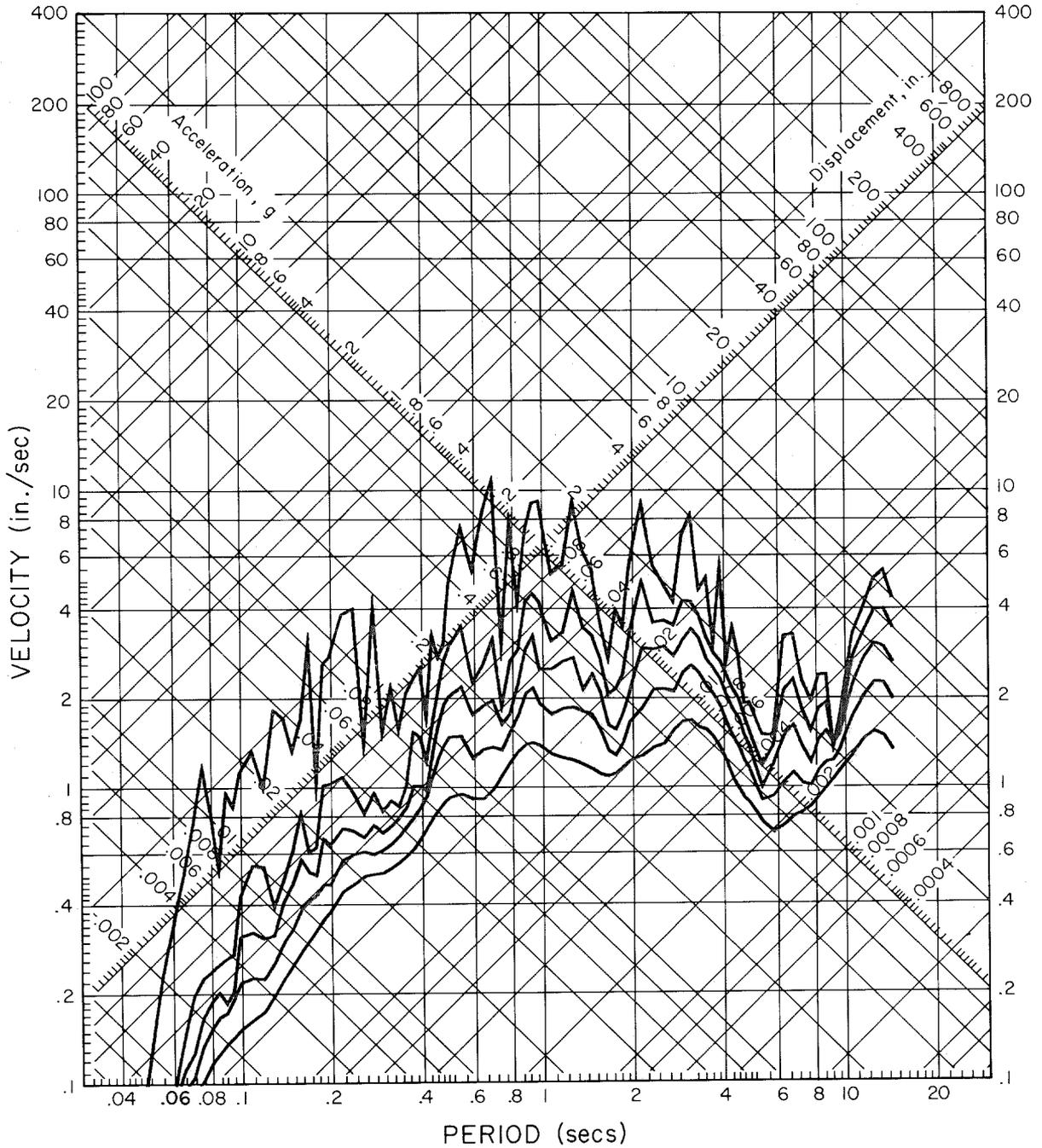


RESPONSE SPECTRUM

KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT

IIIA007 52.006.0 HOLLYWOOD STORAGE P.E. LOT COMP VERT

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



KERN COUNTY, CALIFORNIA EARTHQUAKE JULY 21, 1952 - 0453 PDT

IIIA007 52.006.0 HOLLYWOOD STORAGE P.E. LOT COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

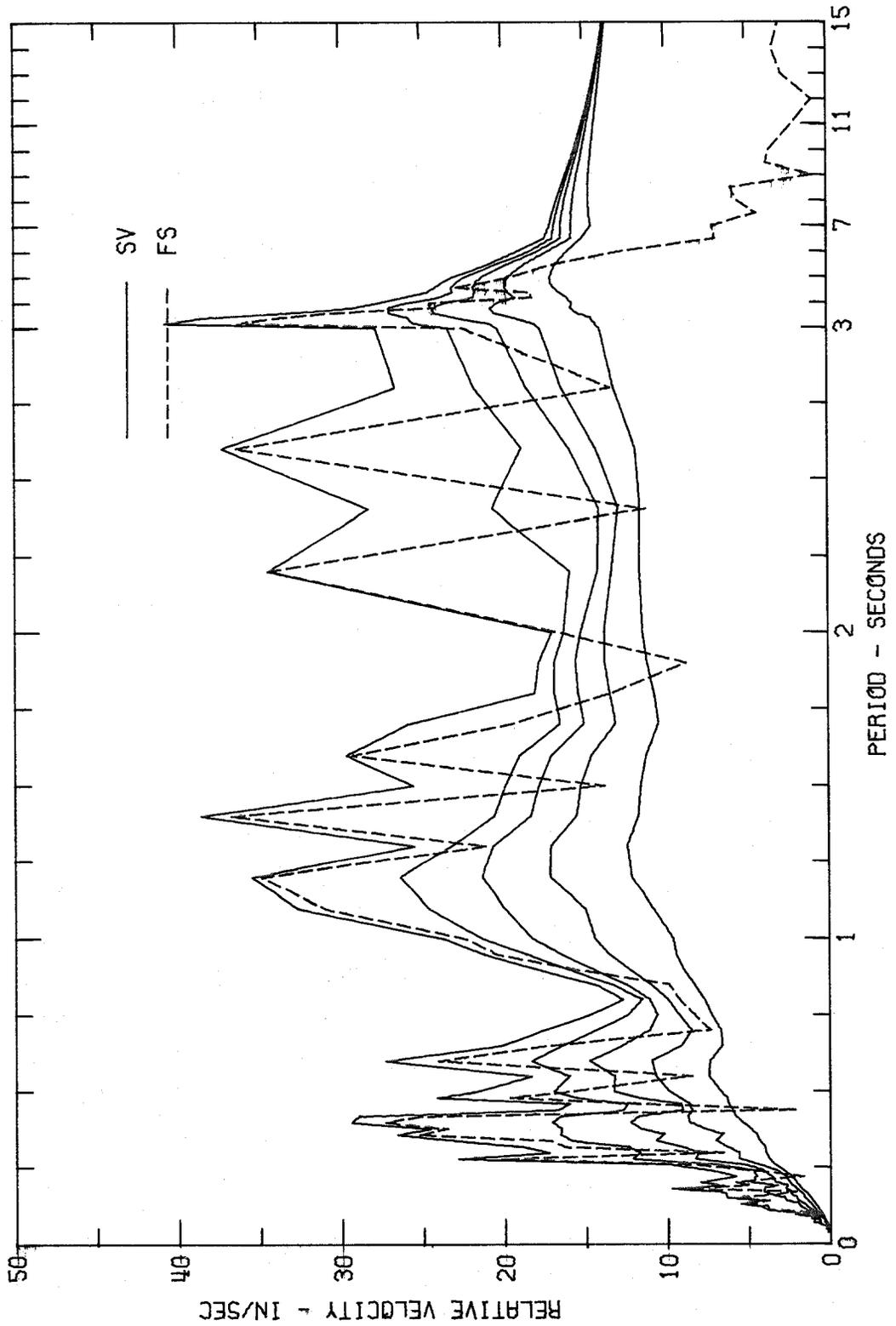
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	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV			
0.040	897-5	390-6	222-4	249-4	614-4	326-6	141-4	208-4	512-4	324-6	138-4	207-4	509-4	325-6	134-4	208-4	511-4	325-6	125-4	208-4	511-4	325-6	125-4	208-4	511-4			
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0.044	329-5	468-6	227-4	247-4	669-4	409-6	199-4	216-4	584-4	400-6	179-4	211-4	572-4	397-6	173-4	210-4	567-4	395-6	154-4	209-4	564-4	395-6	154-4	209-4	564-4			
0.046	192-4	677-6	482-4	327-4	925-4	432-6	227-4	209-4	590-4	439-6	202-4	212-4	600-4	437-6	199-4	211-4	597-4	433-6	170-4	209-4	591-4	433-6	170-4	209-4	591-4			
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0.055	143-3	204-5	308-3	966-4	356-3	930-6	675-6	443-4	228-4	771-4	646-6	413-4	218-4	738-4	637-6	365-4	219-4	623-6	277-4	211-4	712-4	623-6	277-4	211-4	712-4			
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G.700	103-1	122-2	109-1	255-3	109-1	358-3	308-																					

IIIA007 52.006.0 HOLLYWOOD STORAGE P.E. LOT COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT				DAMPING = 2 PERCENT				DAMPING = 5 PERCENT				DAMPING = 10 PERCENT				DAMPING = 20 PERCENT			
	FS	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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RELATIVE VELOCITY RESPONSE SPECTRUM
EUREKA EARTHQUAKE DEC 21, 1954 - 1156 PST
IIIA008 54.003.0 EUREKA FEDERAL BLDG COMP N11W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

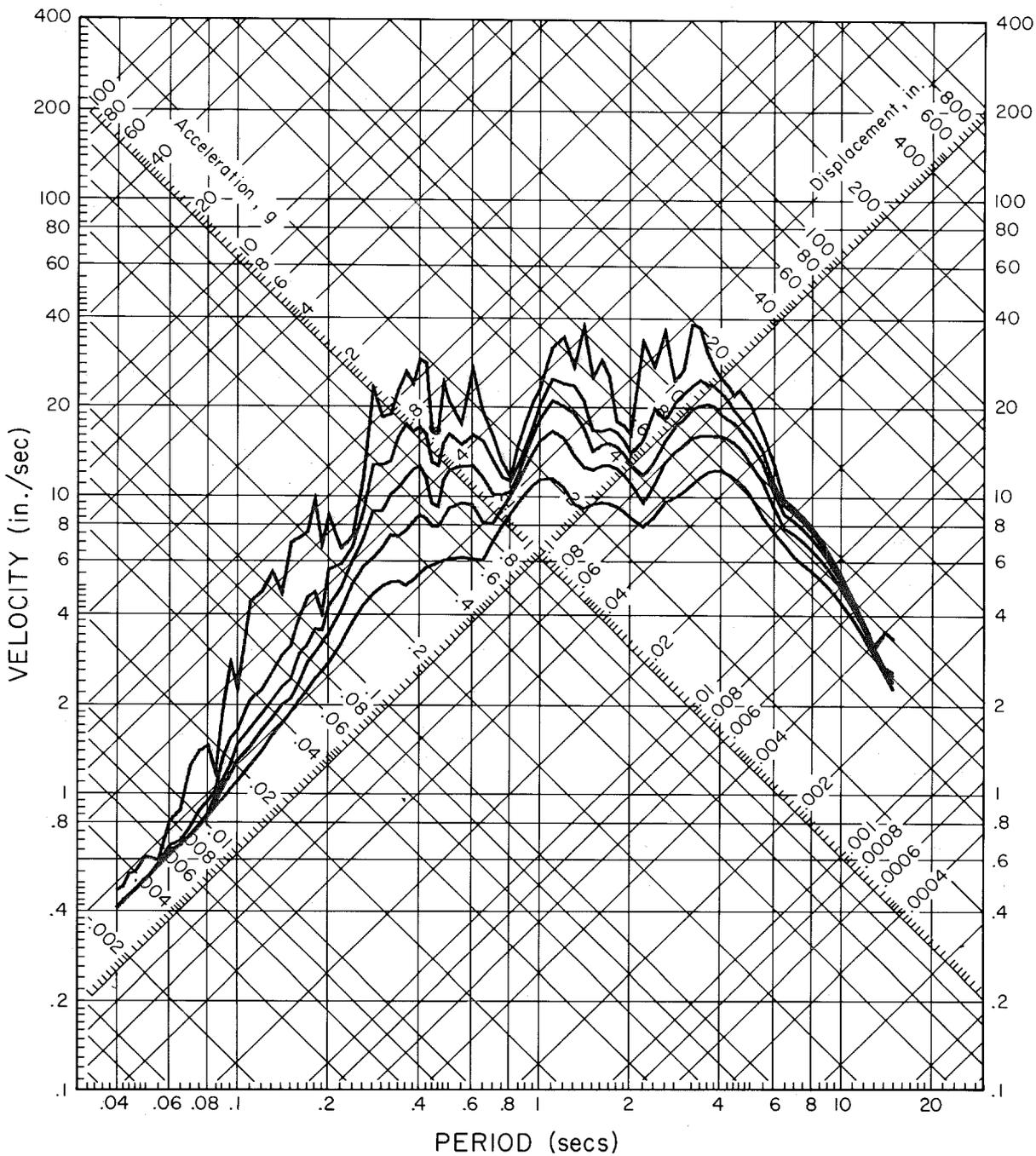


RESPONSE SPECTRUM

EUREKA EARTHQUAKE DEC 21, 1954 - 1156 PST

IIIA008 54.003.0 EUREKA FEDERAL BLOG COMP N11W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



EUREKA EARTHQUAKE DEC 21, 1954 - 1156 PST
IIIA008 54.003.0 EUREKA FEDERAL BLDG COMP N11w

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

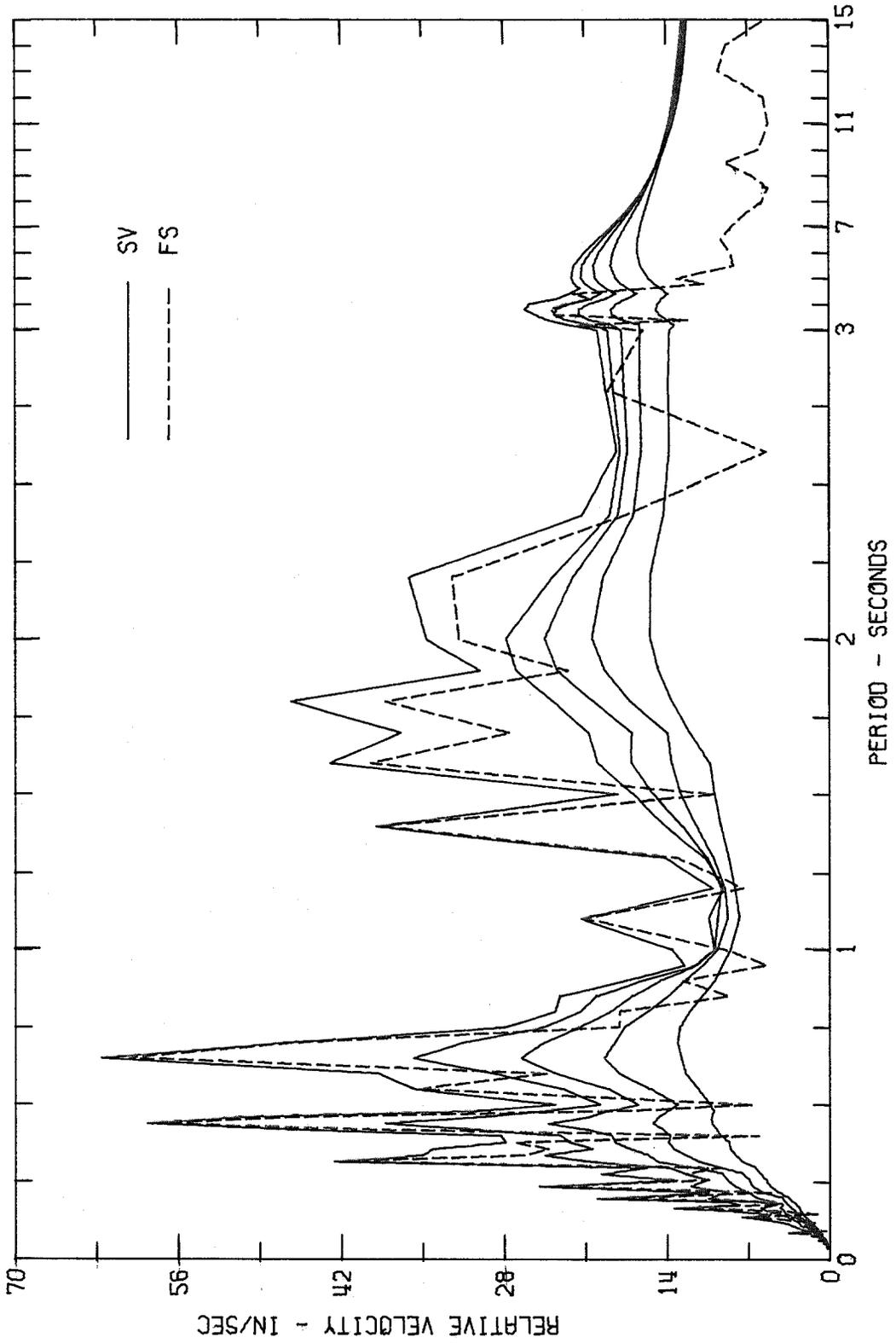
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0.360	253-1	155-2	266-1	122-2	270-1	102-2	166-1	808-3	178-1	675-3	102-1	532-3	117-1	450-3	660-2	356-3	786-2	293-3	453-2	242-3	511-2	293-3	453-2	242-3	511-2	293-3	453-2	242-3	511-2
0.380	235-1	148-2	245-1	105-2	245-1	101-2	165-1	722-3	168-1	759-3	117-1	537-3	125-1	507-3	785-2	364-3	838-2	322-3	495-2	239-3	533-2	322-3	495-2	239-3	533-2	322-3	495-2	239-3	533-2
0.400	274-1	189-2	294-1	120-2	297-1	111-2	171-1	711-3	174-1	821-3	123-1	530-3	128-1	564-3	869-2	366-3	886-2	358-3	544-2	245-3	562-2	358-3	544-2	245-3	562-2	358-3	544-2	245-3	562-2
0.420	251-1	192-2	289-1	111-2	288-1	109-2	165-1	639-3	164-1	785-3	117-1	454-3	117-1	574-3	878-2	337-3	859-2	392-3	585-2	243-3	586-2	392-3	585-2	243-3	586-2	392-3	585-2	243-3	586-2
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IIIIA008 54.003.0 EUREKA FEDERAL BLDG CCMP N11H

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT				DAMPING = 2 PERCENT				DAMPING = 5 PERCENT				DAMPING = 10 PERCENT				DAMPING = 20 PERCENT				
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0.80	925-2	150-2	127-1	240-3	118-1	146-2	115-1	234-3	115-1	135-2	110-1	217-3	106-1	130-2	993-2	211-3	102-1	114-2	771-2	193-3	896-2
0.85	586-2	208-2	144-1	294-3	153-1	178-2	133-1	252-3	131-1	164-2	125-1	233-3	121-1	154-2	110-1	223-3	114-1	132-2	835-2	199-3	977-2
0.90	157-1	263-2	180-1	332-3	184-1	218-2	160-1	275-3	152-1	203-2	145-1	258-3	142-1	184-2	123-1	237-3	129-1	150-2	899-2	204-3	105-1
0.95	205-1	324-2	212-1	368-3	214-1	268-2	186-1	303-3	177-1	248-2	165-1	282-3	164-1	217-2	135-1	251-3	143-1	169-2	945-2	207-3	111-1
1.00	223-1	377-2	236-1	386-3	237-1	333-2	213-1	339-3	208-1	297-2	182-1	305-3	186-1	249-2	144-1	261-3	156-1	185-2	962-2	207-3	116-1
1.10	310-1	573-2	326-1	484-3	327-1	446-2	246-1	377-3	254-1	377-2	199-1	320-3	215-1	297-2	150-1	257-3	170-1	206-2	108-1	193-3	117-1
1.20	349-1	679-2	355-1	482-3	355-1	470-2	263-1	334-3	246-1	392-2	213-1	280-3	205-1	307-2	171-1	222-3	160-1	209-2	121-1	166-3	109-1
1.30	210-1	581-2	254-1	352-3	281-1	500-2	232-1	303-3	241-1	403-2	206-1	245-3	194-1	290-2	170-1	180-3	140-1	200-2	124-1	132-3	967-2
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1.50	137-1	620-2	255-1	282-3	259-1	407-2	198-1	185-3	170-1	346-2	178-1	158-3	145-1	300-2	152-1	139-3	125-1	229-2	115-1	113-3	962-2
1.60	292-1	758-2	296-1	302-3	297-1	432-2	189-1	172-3	169-1	388-2	170-1	156-3	152-1	330-2	145-1	135-3	129-1	248-2	111-1	108-3	575-2
1.70	194-1	703-2	258-1	249-3	260-1	468-2	165-1	166-3	173-1	418-2	150-1	148-3	154-1	352-2	131-1	127-3	130-1	262-2	104-1	102-3	969-2
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3.60	305-1	180-1	332-1	142-3	314-1	140-1	269-1	111-3	246-1	120-1	241-1	956-4	210-1	944-2	205-1	759-4	164-1	710-2	154-1	597-4	123-1
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5.00	193-1	167-1	229-1	683-4	210-1	137-1	222-1	562-4	172-1	123-1	211-1	508-4	155-1	105-1	196-1	454-4	132-1	827-2	170-1	404-4	103-1
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6.00	127-1	126-1	190-1	360-4	132-1	109-1	183-1	311-4	114-1	114-1	177-1	295-4	106-1	905-2	171-1	276-4	948-2	743-2	159-1	265-4	779-2
6.50	687-2	104-1	173-1	252-4	100-1	994-2	168-1	241-4	561-2	928-2	163-1	229-4	897-2	833-2	157-1	221-4	805-2	736-2	150-1	231-4	712-2
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10.00	353-2	904-2	155-1	925-5	568-2	885-2	154-1	915-5	556-2	791-2	152-1	911-5	587-2	760-2	147-1	769-5	434-2	695-2	143-1	901-5	397-2
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12.00	896-3	742-2	146-1	527-5	388-2	736-2	146-1	532-5	385-2	725-2	145-1	550-5	380-2	706-2	144-1	624-5	370-2	662-2	141-1	770-5	346-2
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14.00	336-2	811-2	139-1	423-5	364-2	617-2	139-1	326-5	277-2	608-2	139-1	350-5	273-2	605-2	139-1	429-5	271-2	591-2	137-1	588-5	265-2
15.00	292-2	820-2	137-1	372-5	343-2	636-2	137-1	291-5	266-2	617-2	137-1	289-5	258-2	587-2	137-1	364-5	245-2	558-2	136-1	530-5	233-2

RELATIVE VELOCITY RESPONSE SPECTRUM
EUREKA EARTHQUAKE DEC 21, 1954 - 1156 PST
111A008 54.003.0 EUREKA FEDERAL BLDG COMP N79E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

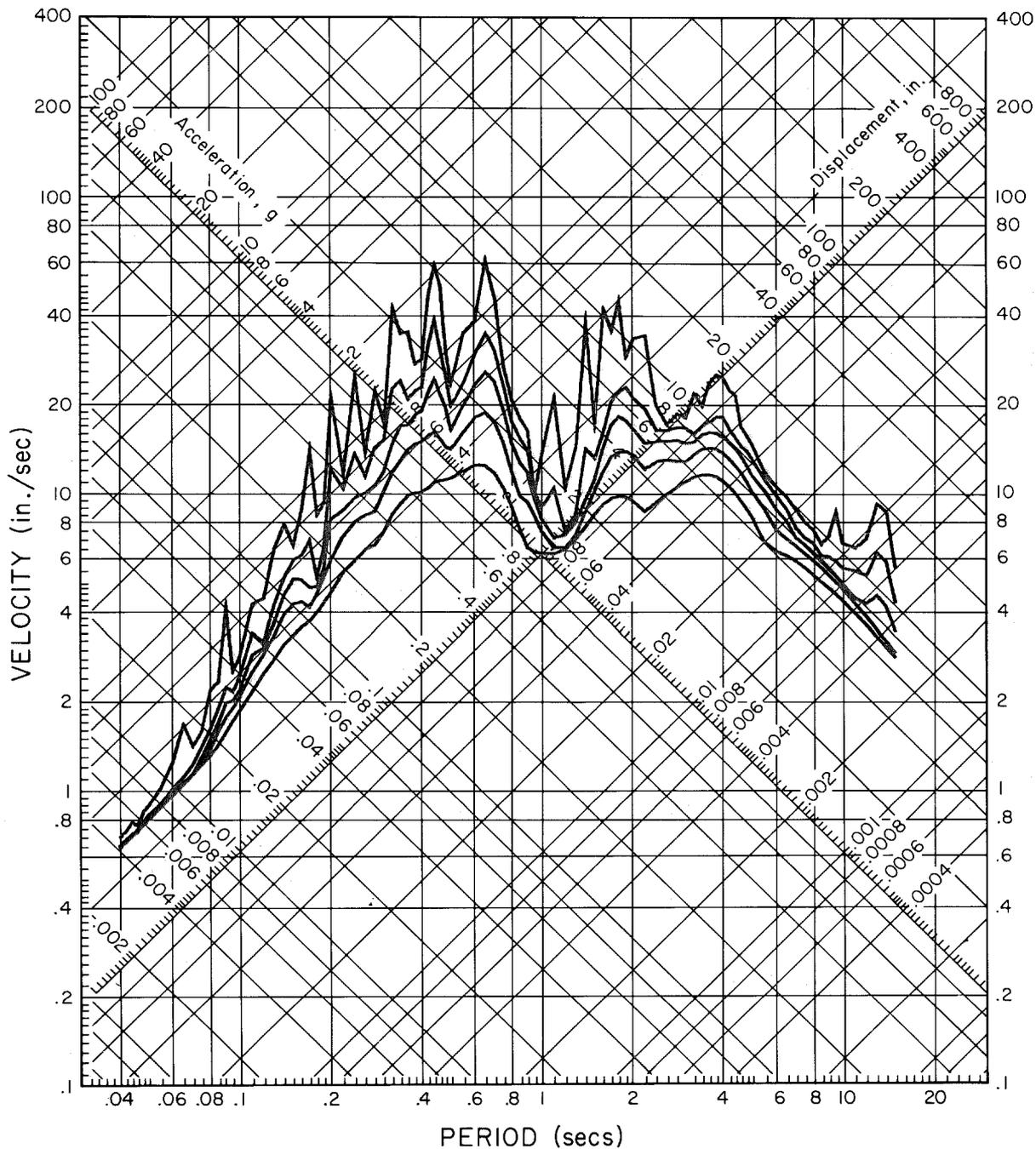


RESPONSE SPECTRUM

EUREKA EARTHQUAKE DEC 21, 1954 - 1156 PST

IIIA008 54.003.0 EUREKA FEDERAL BLDG COMP N79E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



EUREKA EARTHQUAKE DEC 21, 1954 - 1156 PST

IIIA008 54.003.0 EUREKA FEDERAL BLDG COMP N79E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SC AND G FOR SA

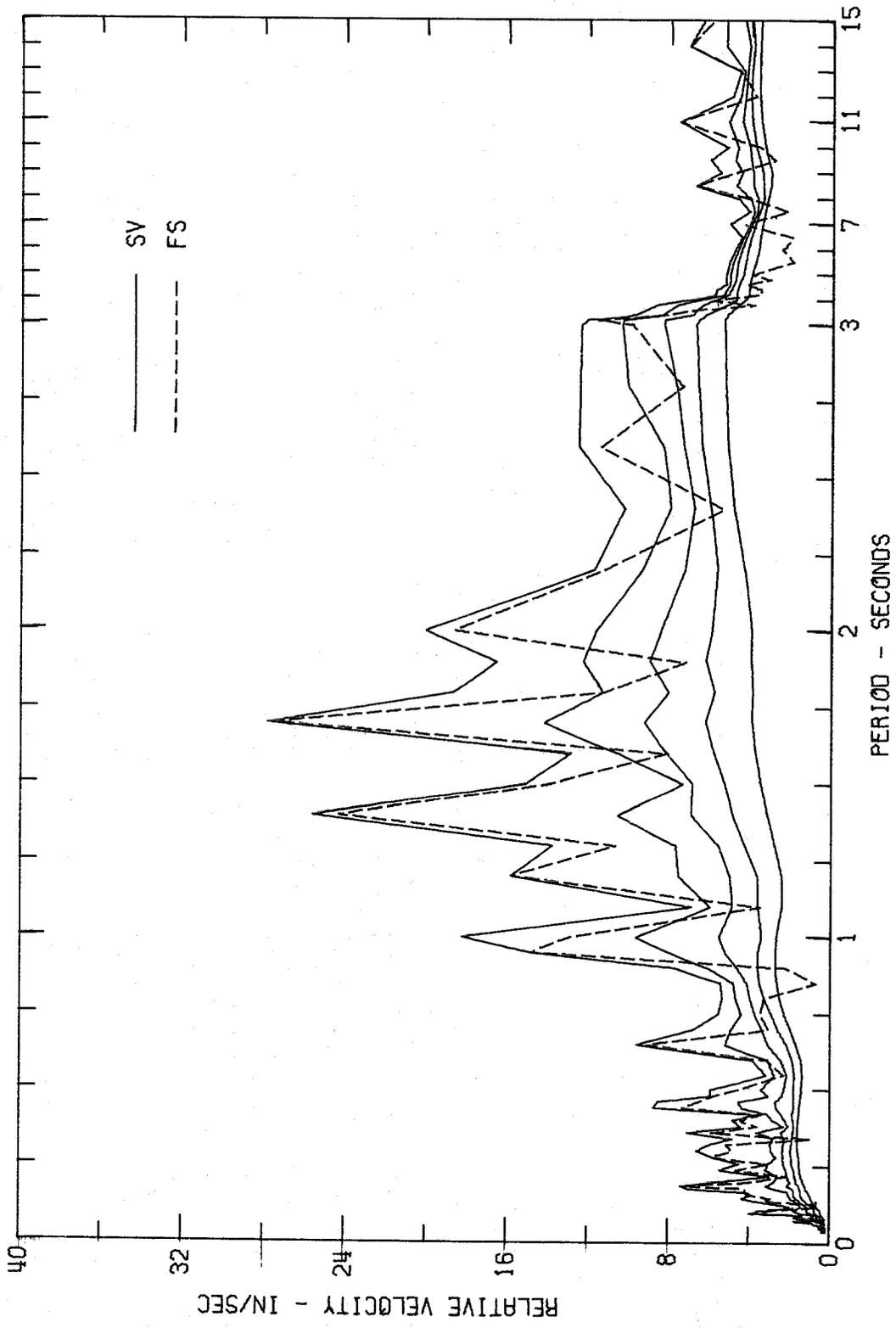
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O.040	965-4	445-5	212-3	285-3	700-3	416-5	129-3	266-3	654-3	415-5	130-3	265-3	652-3	413-5	132-3	264-3	650-3	410-5	129-3	263-3	644-3	410-5	129-3	263-3	644-3	410-5	129-3	263-3	644-3
O.042	990-4	493-5	224-3	286-3	738-3	462-5	144-3	268-3	692-3	455-5	146-3	266-3	687-3	456-5	147-3	264-3	683-3	453-5	144-3	263-3	677-3	453-5	144-3	263-3	677-3	453-5	144-3	263-3	677-3
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O.046	107-3	562-5	276-3	271-3	768-3	535-5	196-3	258-3	731-3	546-5	190-3	264-3	746-3	548-5	185-3	265-3	745-3	544-5	179-3	263-3	743-3	544-5	179-3	263-3	743-3	544-5	179-3	263-3	743-3
O.048	104-3	662-5	259-3	293-3	866-3	611-5	219-3	271-3	800-3	603-5	211-3	267-3	789-3	598-5	206-3	266-3	783-3	592-5	199-3	264-3	776-3	592-5	199-3	264-3	776-3	592-5	199-3	264-3	776-3
O.050	645-4	721-5	251-3	295-3	906-3	669-5	222-3	273-3	841-3	658-5	230-3	268-3	827-3	650-5	229-3	265-3	817-3	644-5	220-3	264-3	809-3	644-5	220-3	264-3	809-3	644-5	220-3	264-3	809-3
O.055	294-3	916-5	455-3	309-3	104-2	804-5	337-3	272-3	918-3	791-5	316-3	267-3	903-3	789-5	298-3	266-3	902-3	781-5	280-3	265-3	893-3	781-5	280-3	265-3	893-3	781-5	280-3	265-3	893-3
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O.065	845-3	175-4	103-2	424-3	169-2	116-4	454-3	281-3	112-2	111-4	431-3	270-3	107-2	110-4	445-3	268-3	107-2	109-4	422-3	267-3	105-2	109-4	422-3	267-3	105-2	109-4	422-3	267-3	105-2
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O.080	156-2	284-4	164-2	454-3	223-2	209-4	808-3	335-3	164-2	192-4	765-3	307-3	150-2	177-4	774-3	287-3	139-2	168-4	698-3	272-3	132-2	168-4	698-3	272-3	132-2	168-4	698-3	272-3	132-2
O.085	614-3	321-4	169-2	455-3	237-2	261-4	124-2	371-3	193-2	232-4	103-2	331-3	171-2	216-4	910-3	307-3	160-2	195-4	793-3	284-3	144-2	195-4	793-3	284-3	144-2	195-4	793-3	284-3	144-2
O.090	334-2	602-4	364-2	760-3	420-2	325-4	152-2	410-3	227-2	287-4	116-2	363-3	200-2	257-4	100-2	328-3	179-2	228-4	891-3	297-3	159-2	228-4	891-3	297-3	159-2	228-4	891-3	297-3	159-2
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O.110	233-2	755-4	314-2	638-3	431-2	603-4	247-2	510-3	344-2	513-4	184-2	435-3	293-2	450-4	158-2	386-3	257-2	385-4	136-2	340-3	220-2	385-4	136-2	340-3	220-2	385-4	136-2	340-3	220-2
O.120	129-2	864-4	392-2	614-3	452-2	615-4	277-2	439-3	322-2	589-4	229-2	415-3	308-2	562-4	181-2	399-3	294-2	485-4	160-2	355-3	254-2	485-4	160-2	355-3	254-2	485-4	160-2	355-3	254-2
O.130	352-2	138-3	526-2	836-3	668-2	890-4	311-2	538-3	430-2	772-4	240-2	465-3	373-2	707-4	270-2	467-3	398-2	587-4	189-2	372-3	283-2	587-4	189-2	372-3	283-2	587-4	189-2	372-3	283-2
O.140	659-2	179-3	761-2	935-3	804-2	118-3	376-2	618-3	530-2	103-3	330-2	546-3	464-2	888-4	276-2	467-3	398-2	707-4	218-2	385-3	340-2	707-4	218-2	385-3	340-2	707-4	218-2	385-3	340-2
O.150	112-2	162-3	508-2	737-3	679-2	144-3	452-2	661-3	606-2	124-3	382-2	574-3	523-2	103-3	305-2	480-3	431-2	813-4	237-2	387-3	340-2	813-4	237-2	387-3	340-2	813-4	237-2	387-3	340-2
O.160	465-2	227-3	847-2	909-3	894-2	160-3	553-2	642-3	631-2	132-3	401-2	532-3	520-2	111-3	304-2	453-3	439-2	923-4	254-2	386-3	362-2	923-4	254-2	386-3	362-2	923-4	254-2	386-3	362-2
O.170	133-1	387-3	135-1	136-2	143-1	192-3	598-2	681-3	709-2	133-3	432-2	469-3	492-2	113-3	335-2	407-3	420-2	116-3	290-2	383-3	379-2	116-3	290-2	383-3	379-2	116-3	290-2	383-3	379-2
C.180	530-2	247-3	772-2	781-3	864-2	152-3	458-2	481-3	533-2	141-3	417-2	444-3	493-2	134-3	364-2	428-3	469-2	116-3	290-2	383-3	409-2	116-3	290-2	383-3	409-2	116-3	290-2	383-3	409-2
O.190	482-2	287-3	883-2	813-3	949-2	202-3	615-2	575-3	668-2	173-3	500-2	493-3	593-2	160-3	391-2	459-3	531-2	132-3	323-2	354-3	436-2	132-3	323-2	354-3	436-2	132-3	323-2	354-3	436-2
O.200	185-1	690-3	201-1	176-2	216-1	389-3	105-1	100-2	122-1	265-3	619-2	671-3	834-2	193-3	410-2	495-3	607-2	150-3	354-2	404-3	473-2	150-3	354-2	404-3	473-2	150-3	354-2	404-3	473-2
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O.240	241-1	966-3	250-1	171-2	253-1	528-3	120-1	945-3	138-1	376-3	822-2	679-3	986-2	312-3	673-2	570-3	818-2	231-3	518-2	436-3	605-2	231-3	518-2	436-3	605-2	231-3	518-2	436-3	605-2
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O.280	124-1	101-2	197-1	132-2	227-1	648-3	124-1	852-3	145-1	485-3	925-2	634-3	109-1	393-3	754-2	521-3	884-2	305-3	600-2	425-3	686-2	305-3	600-2	425-3	686-2	305-3	600-2	425-3	686-2
O.300	950-2	842-3	157-1	957-3	176-1	740-3	139-1	841-3	155-1	579-3	115-1	667-3	121-1	496-3	944-2	567-3	104-1	364-3	648-2	433-3	762-2	364-3	648-2	433-3	762-2	364-3	648-2	433-3	762-2
O.320	425-1	221-2	426-1	221-2	434-1	118-2	207-1	118-2	231-1	761-3	148-1	771-3	149-1	612-3	113-1	621-3	120-1	443-3	758-2	465-3	870-2	443-3	758-2	465-3	870-2	443-3	758-2	465-3	870-2
O.340	261-1	192-2	349-1	170-2	356-1	133-2	246-1	118-2	246-1	930-3	156-1	823-3	171-1	712-3	124-1	646-3	131-1	510-3	815-2	481-3	943-2	510-3	815-2	481-3	943-2	510-3	815-2	481-3	943-2
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O.380	272-1	169-2	278-1	119-2	280-1	137-2	224-1	976-3	227-1	113-2	185-1	811-3	187-1	904-3	139-1	659-3	149-1	619-3	870-2	472-3	103-1	619-3	870-2	472-3	103-1	619-3	870-2	472-3	103-1
C.400	611-2	186-2	283-1	118-2	292-1	148-2	232-1	949-3	233-1	124-2	188-1	805-3	195-1	971-3	137-1	633-3	152-1	657-3	541-2	458-3	103-1	657-3	541-2	458-3	103-1	657-3	541-2	458-3	103-1
O.420	389-1	320-2	460-1	185-2	478-1	216-2	306-1	126-2	324-1	150-2	208-1	875-3	224-1	105-2	144-1	620-3	157-1	713-3	578-2	435-3	106-1	713-3	578-2	435-3	106-1	713-3	578-2	435-3	106-1
O.440	580-1	424-2	587-1	224-2	606-1	277-2	383-1	146-2	396-1	175-2	243-1	934-3	250-1	115-2	152-1	617-3	164-1	778-3	101-1	431-3	111-1	778-3	101-1	431-3	111-1	778-3	101-1	431-3	111-1
O.460	450-1	372-2	507-1	180-2	509-1	230-2	298-1	111-2	314-1	161-2	207-1	791-3	221-1	113-2	147-1	560-3	155-1	826-3	102-1	425-3	112-1	826-3	102-1						

IIIA008 54.003.0 EUREKA FEDERAL BLDG COMP N79E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

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0.80	180-1	266-2	236-1	426-3	209-1	224-2	214-1	359-3	176-1	189-2	148-1	152-2	156-1	250-3	119-1	116-2	120-1	208-3	915-2						
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0.90	126-1	236-2	176-1	298-3	165-1	203-2	161-1	276-3	142-1	171-2	119-1	136-2	125-1	179-3	954-2	564-3	989-2	137-3	673-2						
0.95	537-2	155-2	124-1	175-3	102-1	155-2	115-1	176-3	102-1	147-2	975-2	129-2	105-1	153-3	858-2	581-3	523-2	127-3	648-2						
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1.10	210-1	377-2	214-1	319-3	215-1	187-2	104-1	158-3	107-1	127-2	726-2	117-2	878-2	101-3	673-2	111-2	778-2	101-3	635-2						
1.20	740-2	205-2	100-1	145-3	107-1	146-2	913-2	110-3	880-2	170-2	822-2	154-2	100-1	953-4	745-2	126-2	818-2	967-4	664-2						
1.30	131-1	303-2	141-1	183-3	146-1	182-2	107-1	110-3	880-2	170-2	822-2	154-2	100-1	953-4	745-2	126-2	818-2	967-4	664-2						
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4.60	159-1	125-1	214-1	604-4	170-1	108-1	108-1	524-4	147-1	998-2	191-1	486-4	136-1	881-2	173-1	458-4	120-1	708-2	145-1						
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6.00	850-2	103-1	209-1	295-4	108-1	967-2	204-1	275-4	101-1	869-2	197-1	252-4	910-2	741-2	185-1	234-4	776-2	629-2	165-1						
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7.00	841-2	100-1	186-1	135-4	904-2	874-2	184-1	183-4	784-2	814-2	181-1	158-4	691-2	770-2	168-1	168-4	645-2	691-2	153-1						
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13.00	953-2	197-1	125-1	119-4	653-2	135-1	125-1	818-5	653-2	570-2	127-1	592-5	468-2	743-2	129-1	632-5	359-2	704-2	130-1						
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RELATIVE VELOCITY RESPONSE SPECTRUM
EUREKA EARTHQUAKE DEC 21, 1954 - 1156 PST
111A008 54.003.0 EUREKA FEDERAL BLDG COMP VERT
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

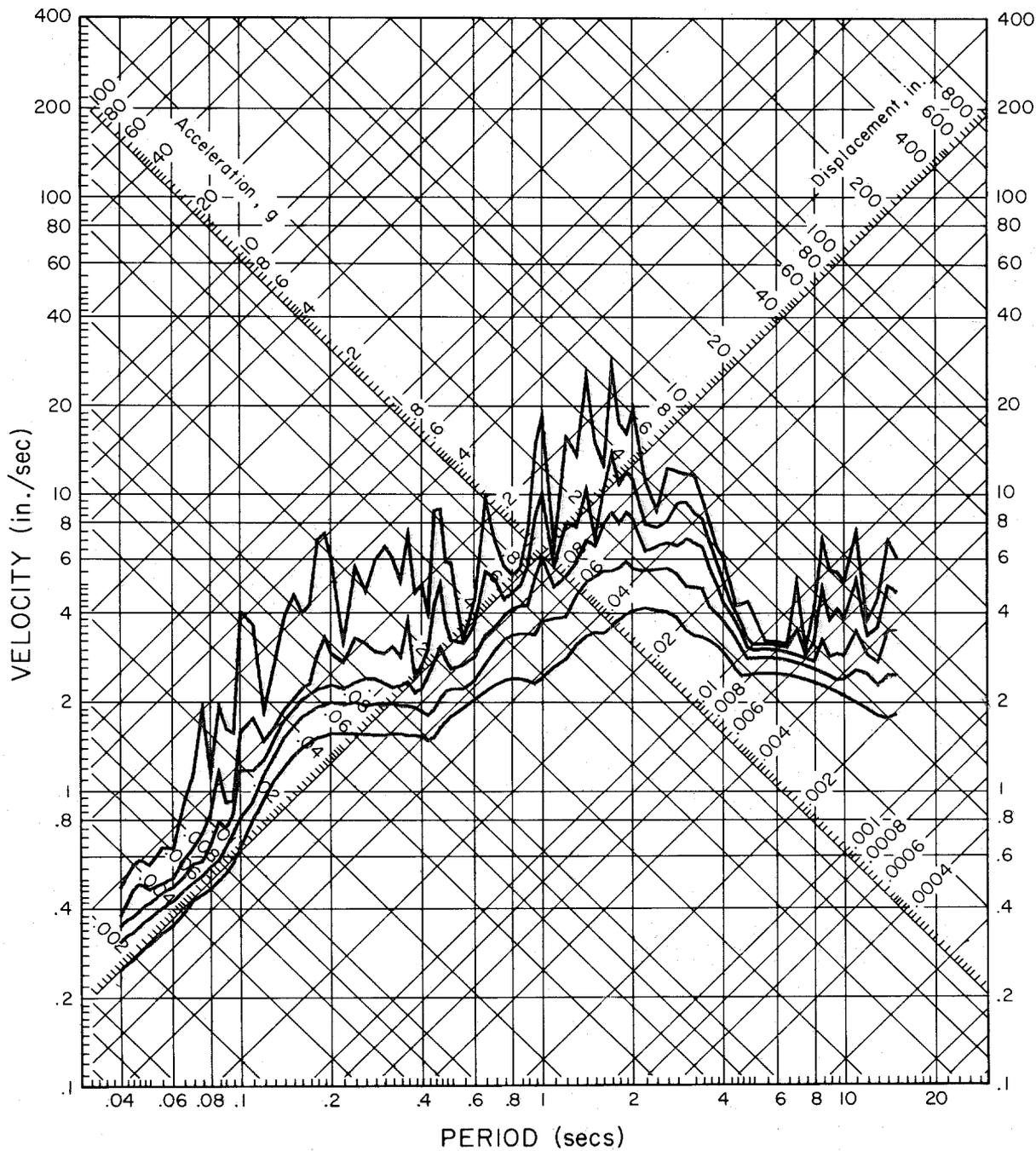


RESPONSE SPECTRUM

EUREKA EARTHQUAKE DEC 21, 1954 - 1156 PST

IIIA008 54.003.0 EUREKA FEDERAL BLDG COMP VERT

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



EUREKA EARTHQUAKE DEC 21, 1954 - 1156 PST

IIIA008 54.003.0 EUREKA FEDERAL BLDG COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

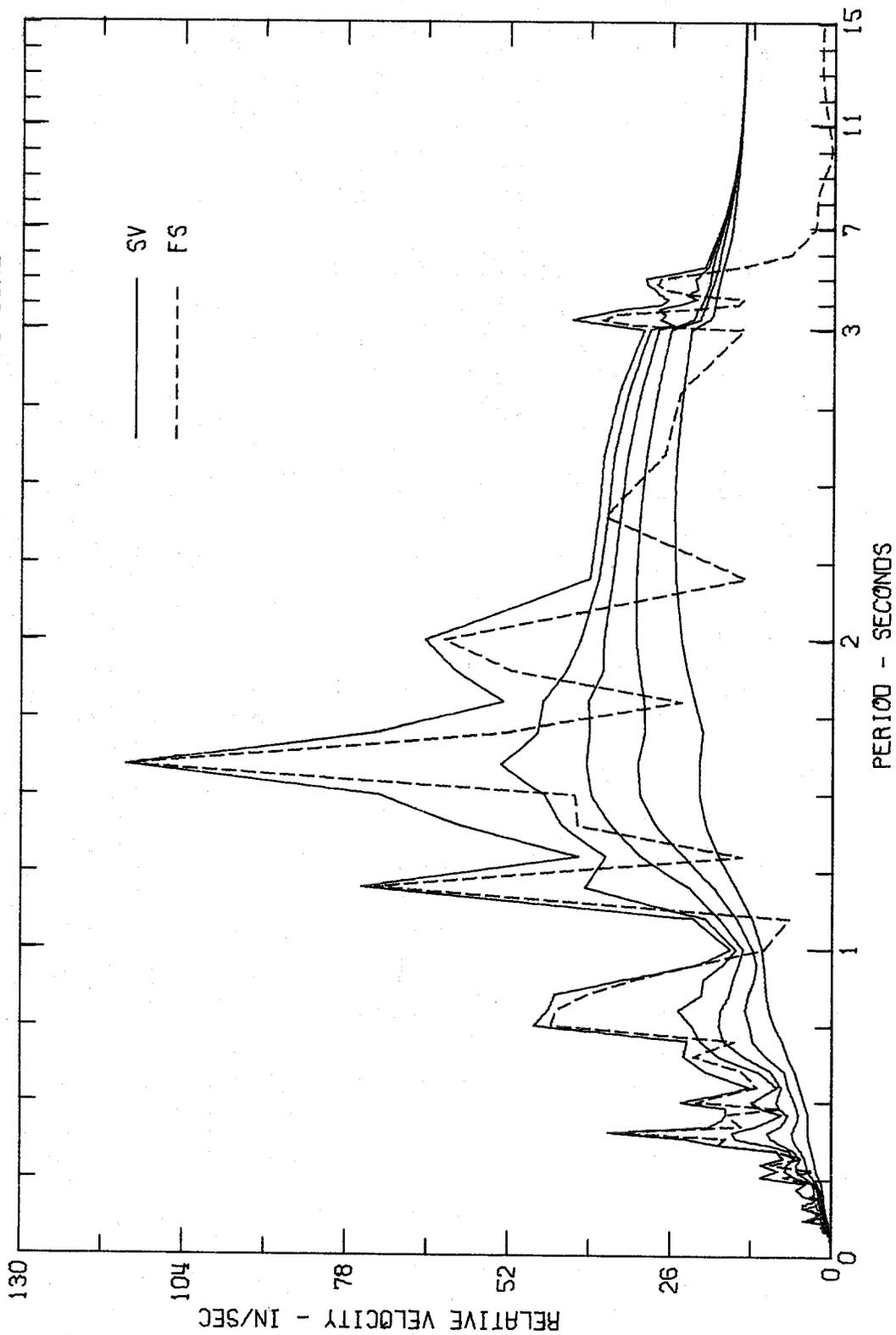
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0.042	302-3	343-5	341-3	199-3	513-3	278-5	277-3	162-3	416-3	245-5	250-3	142-3	367-3	217-5	126-3	324-3	174-5	184-3	103-3	261-3					
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0.060	508-3	610-5	550-3	173-3	638-3	487-5	328-3	138-3	511-3	454-5	310-3	130-3	476-3	407-5	118-3	427-3	338-5	237-3	100-3	354-3					
0.065	662-3	936-5	805-3	226-3	905-3	610-5	350-3	147-3	589-3	532-5	327-3	129-3	515-3	479-5	116-3	463-3	402-5	246-3	991-4	389-3					
0.070	810-3	129-4	101-2	269-3	115-2	723-5	424-3	150-3	648-3	633-5	338-3	132-3	568-3	550-5	115-3	494-3	476-5	260-3	100-3	428-3					
0.075	162-2	226-4	176-2	412-3	190-2	866-5	652-3	158-3	725-3	692-5	490-3	125-3	580-3	621-5	114-3	520-3	538-5	269-3	100-3	450-3					
0.080	242-3	146-4	108-2	234-3	115-2	108-4	998-3	172-3	854-3	848-5	586-3	133-3	666-3	711-5	114-3	558-3	599-5	275-3	980-4	471-3					
0.090	144-2	233-4	155-2	294-3	162-2	132-4	791-3	167-3	921-3	107-4	638-3	135-3	752-3	938-5	118-3	655-3	763-5	334-3	991-4	532-3					
0.095	135-2	238-4	151-2	270-3	158-2	141-4	819-3	159-3	934-3	128-4	731-3	145-3	850-3	110-4	127-3	729-3	869-5	391-3	558-4	574-3					
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0.140	325-2	875-4	374-2	456-3	392-2	424-4	171-2	221-3	190-2	389-4	150-2	203-3	174-2	341-4	179-3	153-2	271-4	854-3	147-3	121-2					
0.150	294-2	109-3	435-2	499-3	460-2	493-4	191-2	223-3	206-2	489-4	167-2	207-3	189-2	397-4	184-3	166-2	317-4	540-3	152-3	133-2					
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0.170	418-2	117-3	421-2	414-3	432-2	630-4	207-2	222-3	233-2	577-4	179-2	205-3	213-2	504-4	183-3	186-2	397-4	108-2	149-3	146-2					
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0.600	311-2	428-3	385-2	121-3	449-2	353-3	309-2	100-3	369-2	273-3	243-2	780-4	286-2	229-3	188-2	664-4	239-2	157-3	144-2	603-4	206-2				
0.650	911-2	100-2	961-2	243-3	973-2	571-3	521-2	138-3	552-2	349-3	307-2	848-4	337-2	280-3	216-2	693-4	270-2	226-3	169-2	598-4	219-2				
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IIIA008 54.003.0 EUREKA FEDERAL BLDG COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT			DAMPING = 2 PERCENT			DAMPING = 5 PERCENT			DAMPING = 10 PERCENT			DAMPING = 20 PERCENT								
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RELATIVE VELOCITY RESPONSE SPECTRUM
EUREKA EARTHQUAKE DEC 21, 1954 - 1156 PST
111A009 54.004.0 FERNDALE CITY HALL COMP N44E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

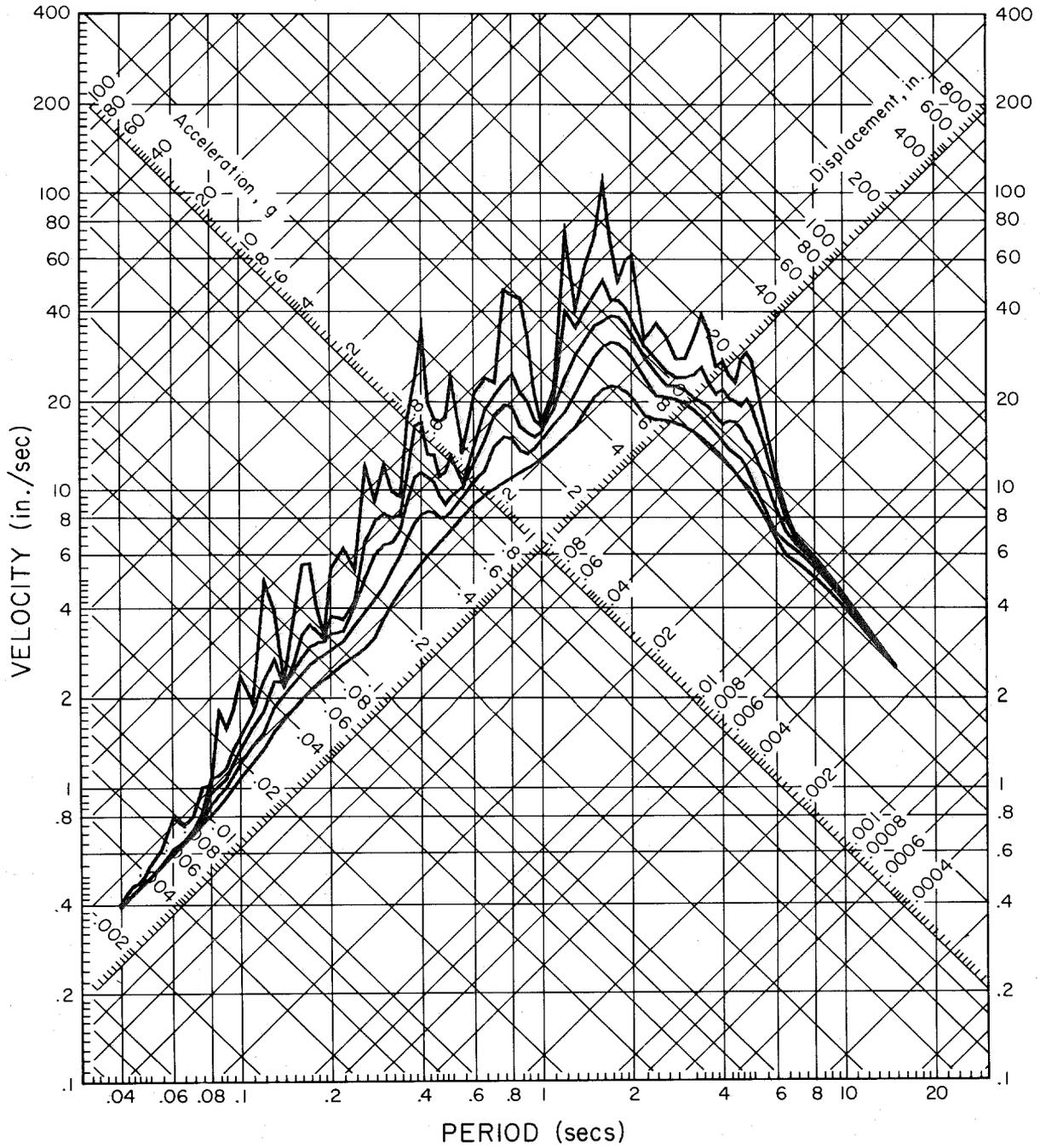


RESPONSE SPECTRUM

EUREKA EARTHQUAKE DEC 21, 1954 - 1156 PST

IIIA009 54.004.0 FERDALE CITY HALL COMP N44E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



EUREKA EARTHQUAKE DEC 21, 1954 - 1156 PST

IIIA009 54-004.0 FERDALE CITY HALL COMP N44E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

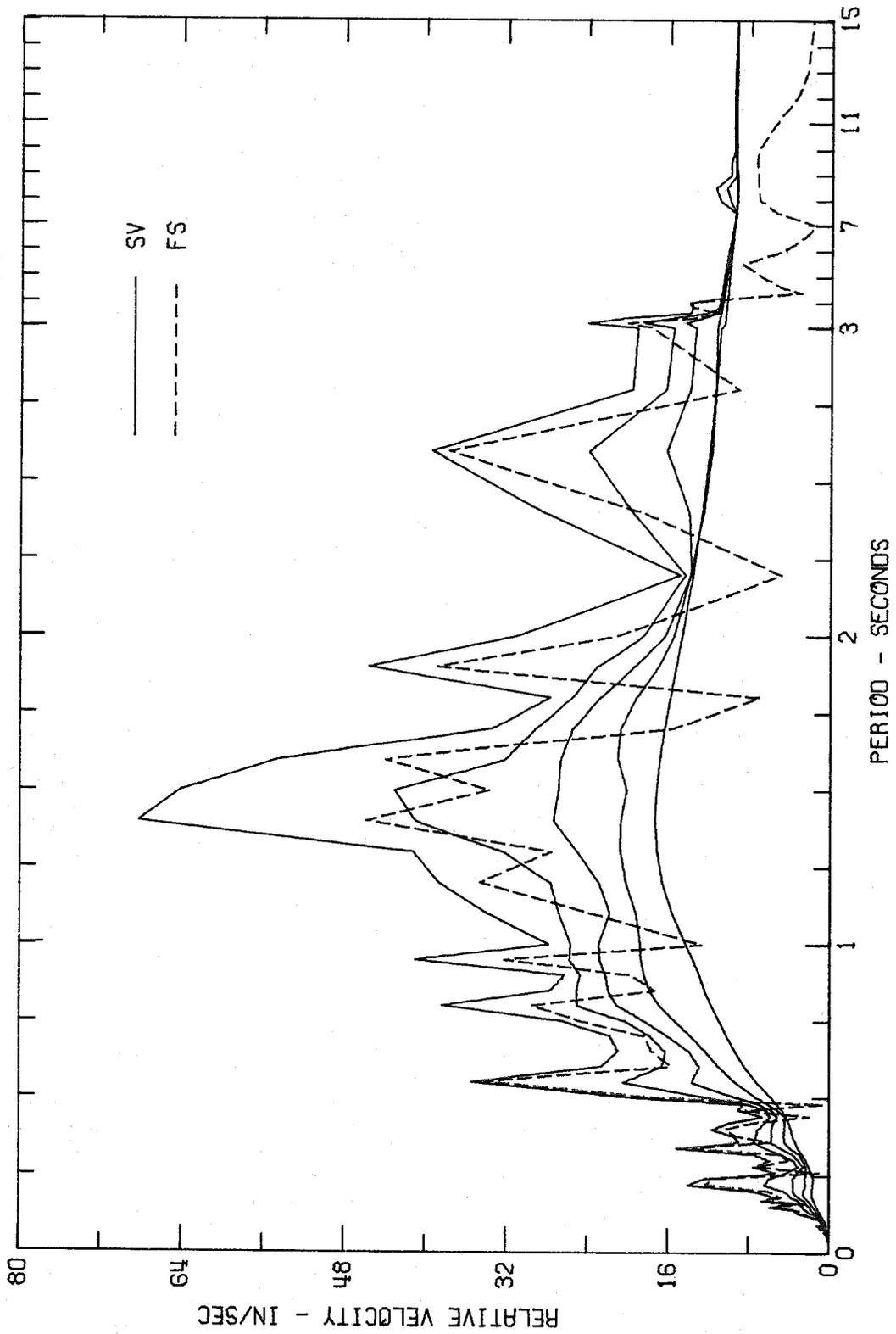
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III A009 54.004.0 FERDALE CITY HALL COMP N44E

THE UNITS USED ARE SEC FOR PER, IN/SEC FCR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT					DAMPING = 2 PERCENT					DAMPING = 5 PERCENT					DAMPING = 10 PERCENT					DAMPING = 20 PERCENT				
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	451-1	576-2	479-1	104-2	483-1	282-2	225-1	515-3	236-1	237-2	181-1	184-2	198-1	184-2	132-1	343-3	154-1	129-2	931-2	249-3	108-1	129-2	931-2	249-3	108-1
0.80	442-1	590-2	455-1	944-3	463-1	322-2	246-1	515-3	253-1	248-2	179-1	194-2	195-1	194-2	140-1	317-3	152-1	143-2	101-1	243-3	112-1	143-2	101-1	243-3	112-1
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RELATIVE VELOCITY RESPONSE SPECTRUM
EUREKA EARTHQUAKE DEC 21, 1954 - 1156 PST
111A009 54.004.0 FERNDALE CITY HALL COMP N46W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

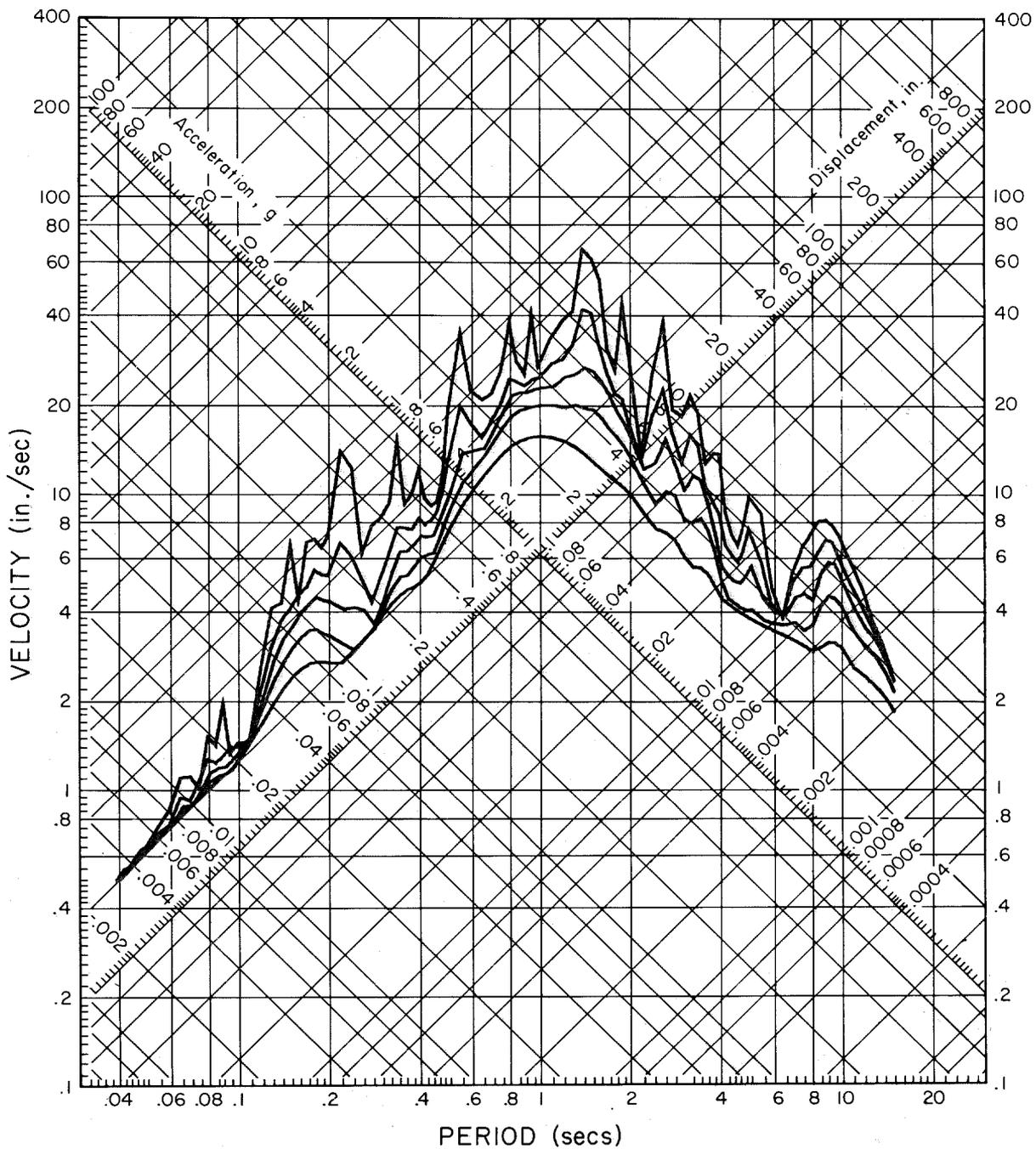


RESPONSE SPECTRUM

EUREKA EARTHQUAKE DEC 21, 1954 - 1156 PST

IIIA009 54.004.0 FERDALE CITY HALL COMP N46W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



EUREKA EARTHQUAKE DEC 21, 1954 - 1156 PST

IIIA009 54.004.0 FERDALE CITY HALL COMP N46W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

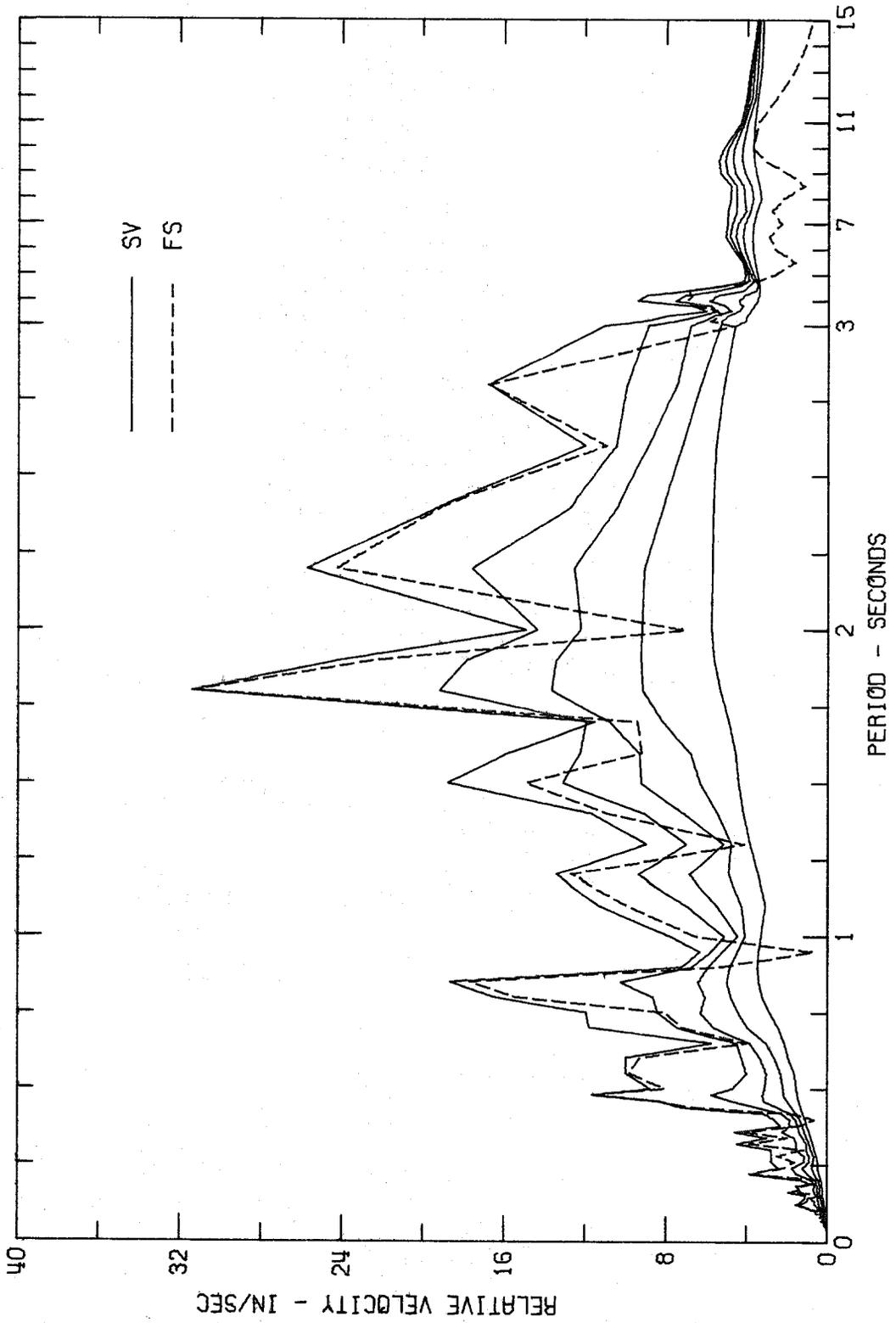
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IIIA009 54.004.0 FERNDAL CITY HALL COMP N46W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
EUREKA EARTHQUAKE DEC 21, 1954 - 1156 PST
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

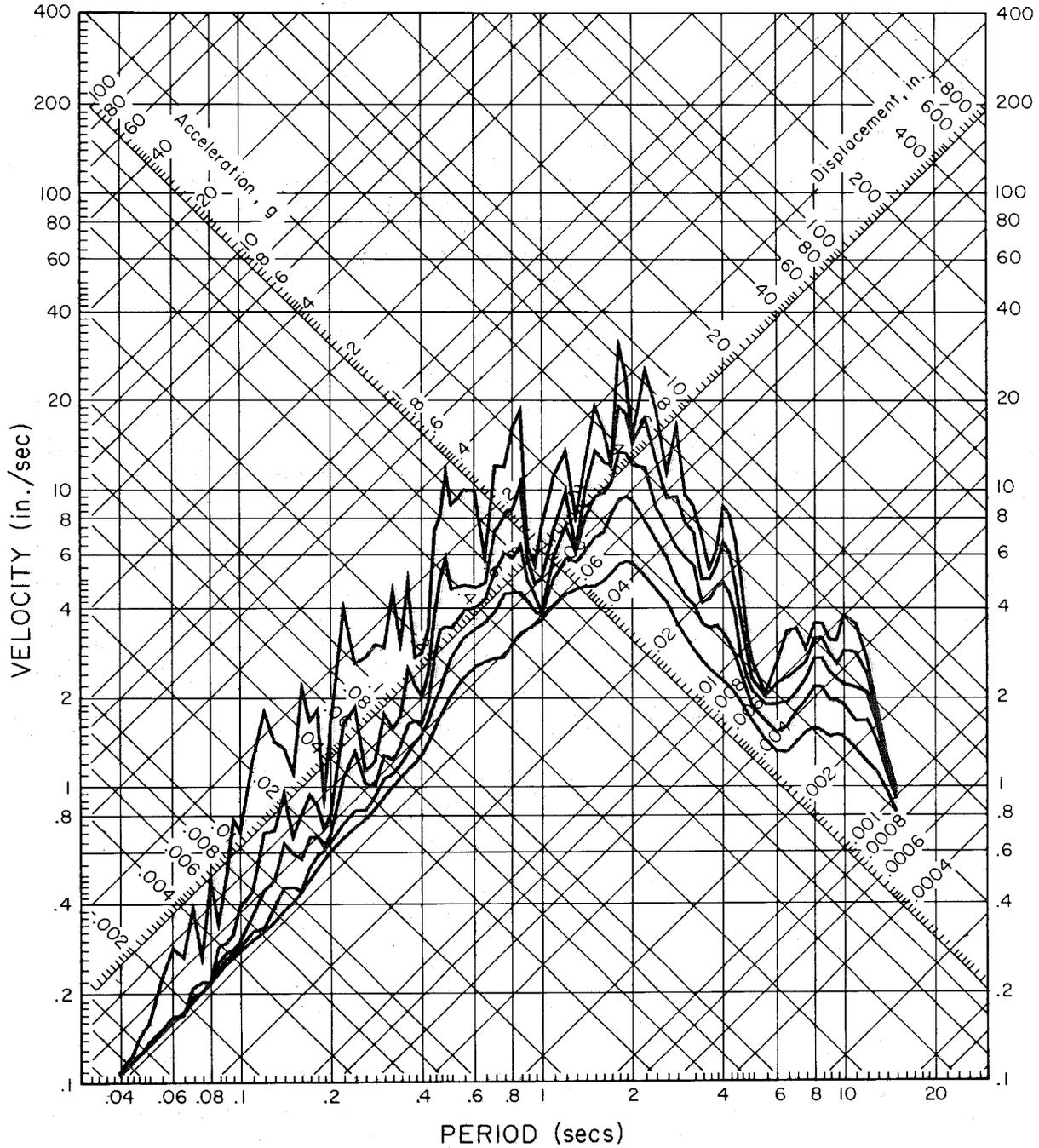


RESPONSE SPECTRUM

EUREKA EARTHQUAKE DEC 21, 1954 - 1156 PST

IIIA009 54.004.0 FERNDAL CITY HALL COMP VERT

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



EUREKA EARTHQUAKE DEC 21, 1954 - 1156 PST
IIIA009 54.004.0 FERDALE CITY HALL COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

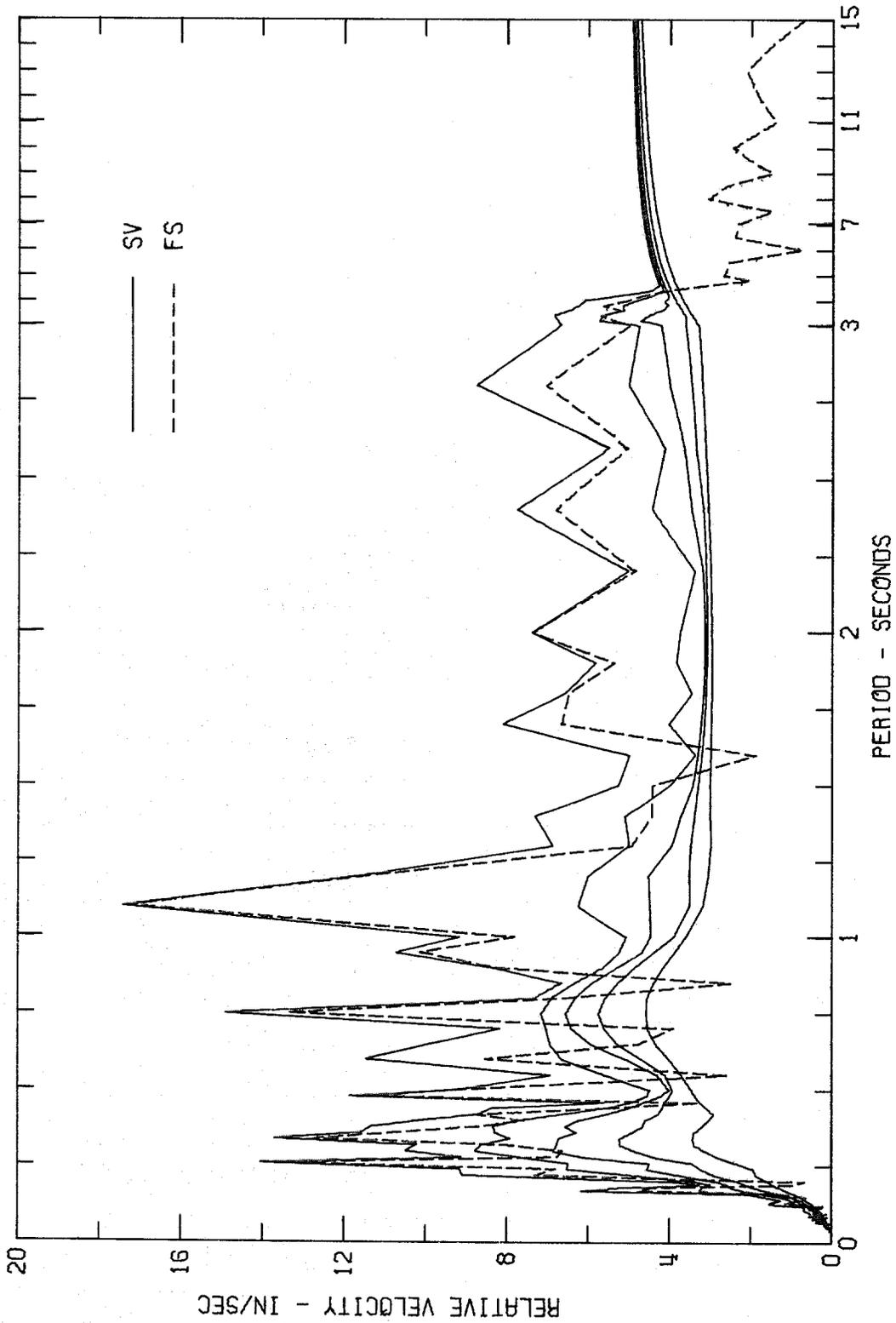
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0.400	645-3	183-3	262-2	117-3	288-2	130-3	186-2	934-4	205-2	105-3	157-2	684-4	166-2	973-4	135-2	635-4	152-2	565-4	555-4	130-2	565-4	130-2	565-4	555-4	130-2	565-4	555-4	130-2	565-4	555-4	
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0.460	841-2	617-3	840-2	298-3	843-2	377-3	475-2	182-3	515-2	251-3	313-2	122-3	344-2	159-3	197-2	778-4	217-2	128-3	143-2	642-4</											

IIIIA009 54.004-0 FERDALE CITY HALL COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT				DAMPING = 2 PERCENT				DAMPING = 5 PERCENT				DAMPING = 10 PERCENT				DAMPING = 20 PERCENT				
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0.85	177-1	257-2	186-1	364-3	190-1	145-2	102-1	206-3	107-1	904-3	642-2	123-3	668-2	619-3	500-2	887-4	457-2	454-3	342-2	673-4	335-2
0.90	530-2	933-3	720-2	117-3	651-2	840-3	670-2	106-3	586-2	722-3	592-2	918-4	504-2	613-3	484-2	785-4	428-2	500-3	347-2	664-4	349-2
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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN JOSE EARTHQUAKE SEPT 4, 1955 - 1801 PST
111A010 55.001.0 SAN JOSE BANK OF AMERICA BASEMENT COMP N31W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

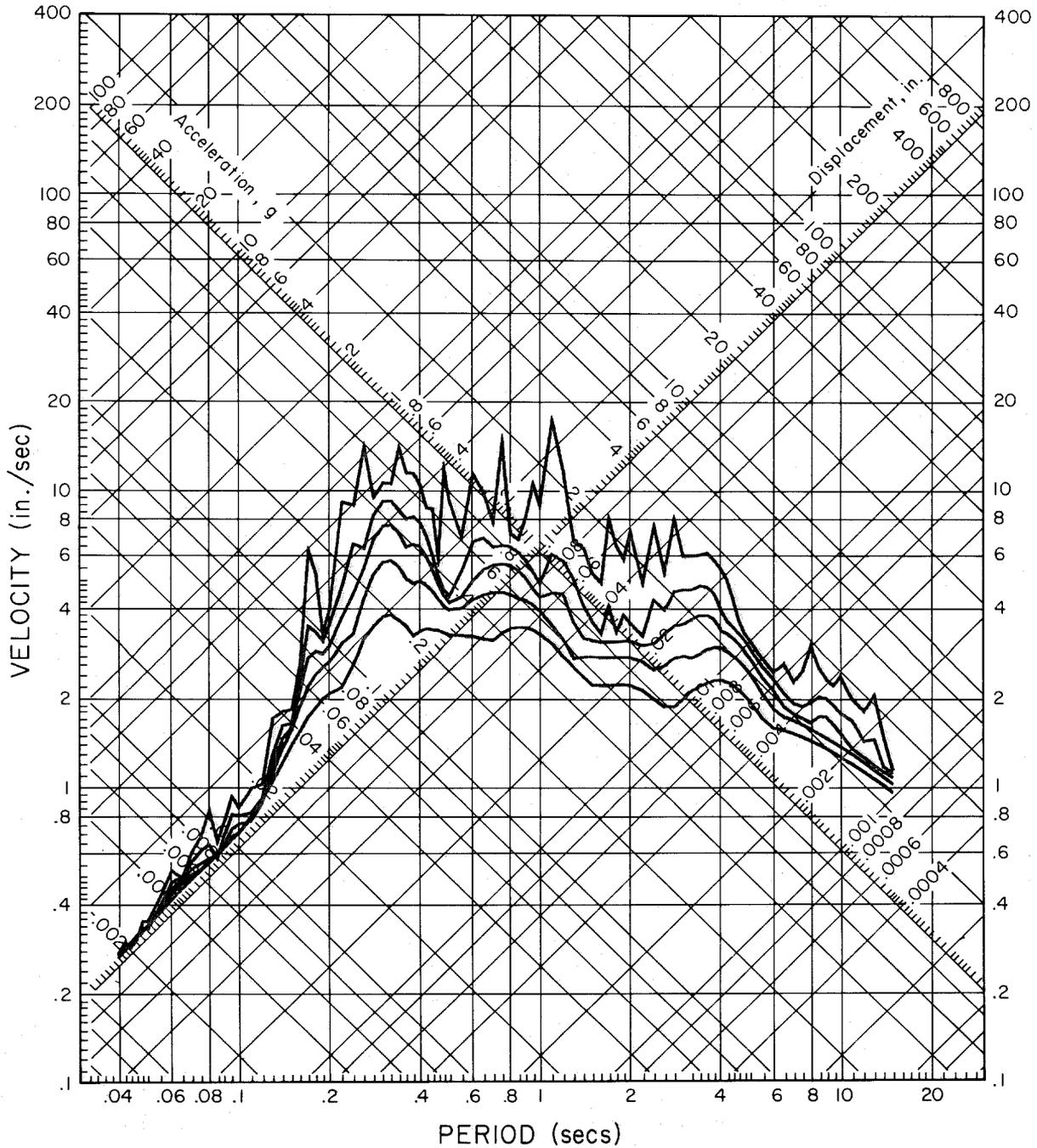


RESPONSE SPECTRUM

SAN JOSE EARTHQUAKE SEPT 4, 1955 - 1801 PST

IIIA010 55.001.0 SAN JOSE BANK OF AMERICA BASEMENT COMP N31W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIIA10 55.001.0 SAN JOSE BANK OF AMERICA BASEMENT COMP N31W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

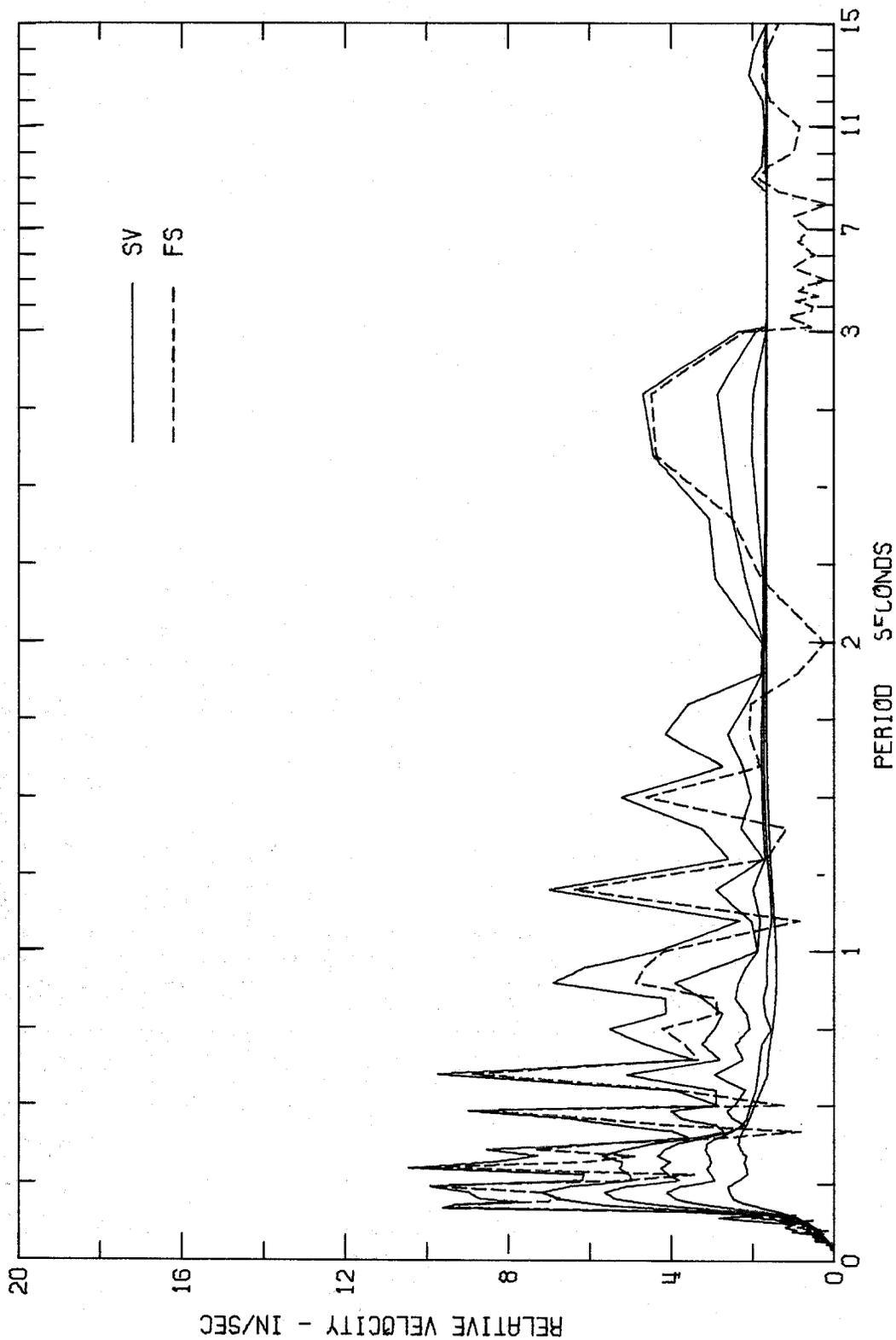
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0.80	654-2	918-3	732-2	146-3	721-2	830-3	689-2	132-3	652-2	719-3	632-2	115-3	565-2	574-3	558-2	837-4	451-2	442-3	455-2	758-4	347-2
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RELATIVE VELOCITY RESPONSE SPECTRUM

SAN JOSE EARTHQUAKE SEPT 4, 1955 - 1801 PST

1111010 55.001.0 SAN JOSE BANK OF AMERICA BASEMENT COMP N59E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

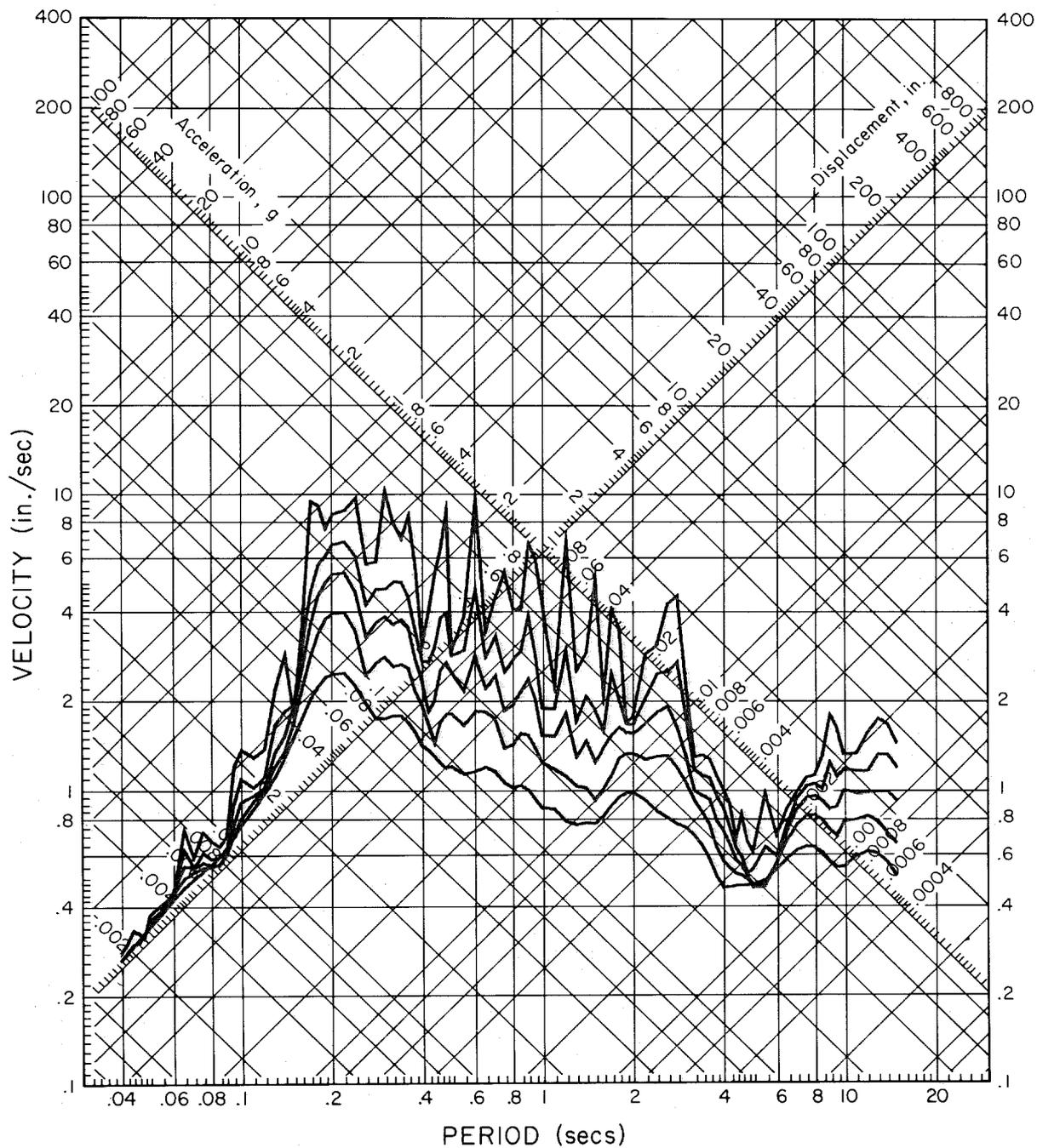


RESPONSE SPECTRUM

SAN JOSE EARTHQUAKE SEPT 4, 1955 - 1801 PST

III9010 55.001.0 SAN JOSE BANK OF AMERICA BASEMENT COMP N59E

DAMPING VALUES ARE 0. 2; 5, 10 AND 20 PERCENT OF CRITICAL



SAN JOSE EARTHQUAKE SEPT 4, 1955 - 1801 PST
IIIA010 55.001.0 SAN JOSE BANK OF AMERICA BASEMENT COMP N59E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

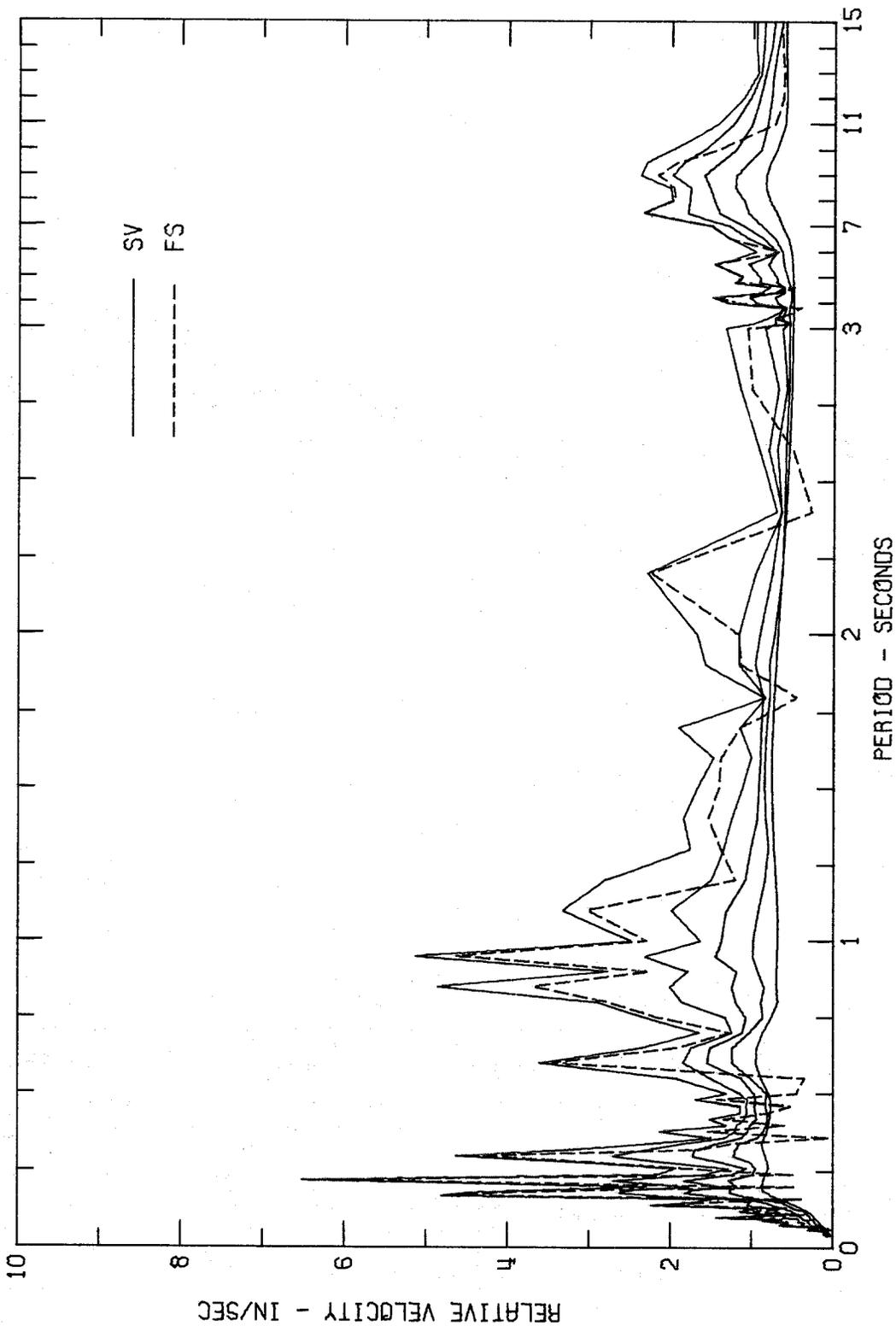
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IIIA010 55.001.0 SAN JOSE BANK OF AMERICA BASEMENT COMP N59E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN JOSE EARTHQUAKE SEPT 4, 1955 - 1801 PST
IIIA010 55.001.0 SAN JOSE BANK OF AMERICA BASEMENT COMP VERT
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

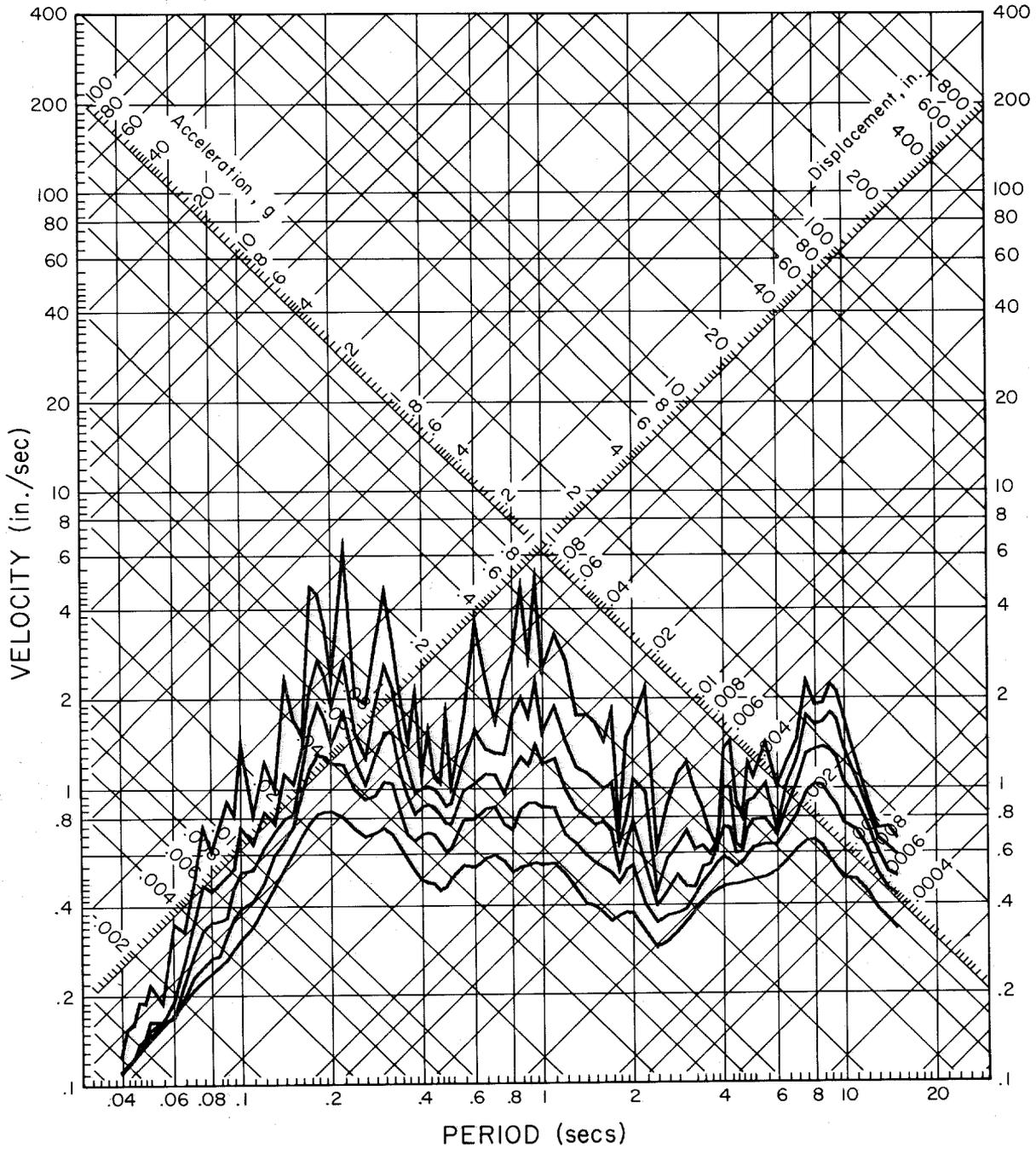


RESPONSE SPECTRUM

SAN JOSE EARTHQUAKE SEPT 4, 1955 - 1801 PST

IIIA010 55.001.0 SAN JOSE BANK OF AMERICA BASEMENT COMP VERT

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN JOSE EARTHQUAKE SEPT 4, 1955 - 1801 PST
IIIA10 55.001.0 SAN JOSE BANK OF AMERICA BASEMENT COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

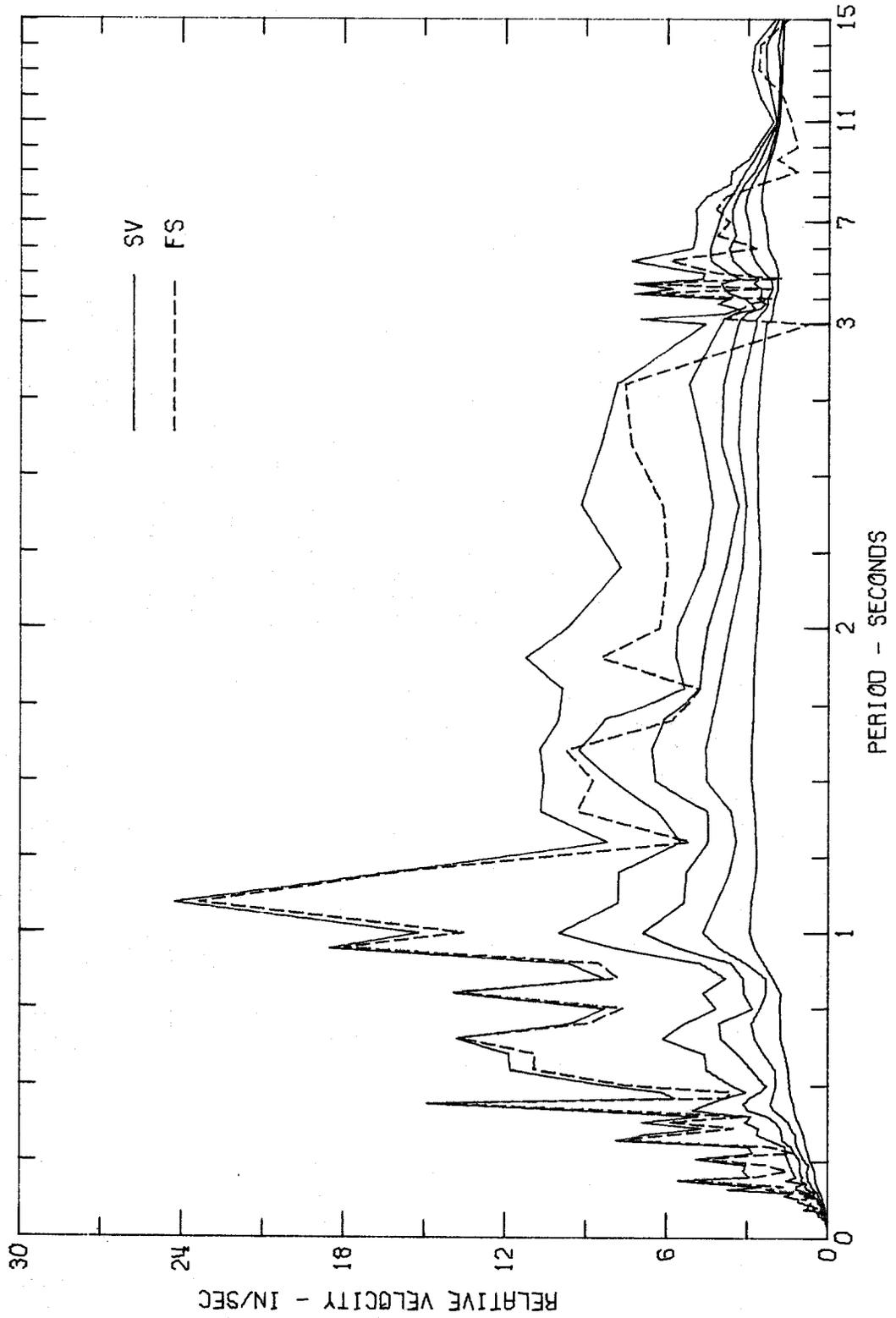
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IIIA010 55.001.0 SAN JOSE BANK OF AMERICA BASEMENT COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT					DAMPING = 2 PERCENT					DAMPING = 5 PERCENT					DAMPING = 10 PERCENT					DAMPING = 20 PERCENT					
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RELATIVE VELOCITY RESPONSE SPECTRUM
EL ALAMO, BAJA CALIFORNIA EARTHQUAKE FEB 9, 1956 - 0633 PST
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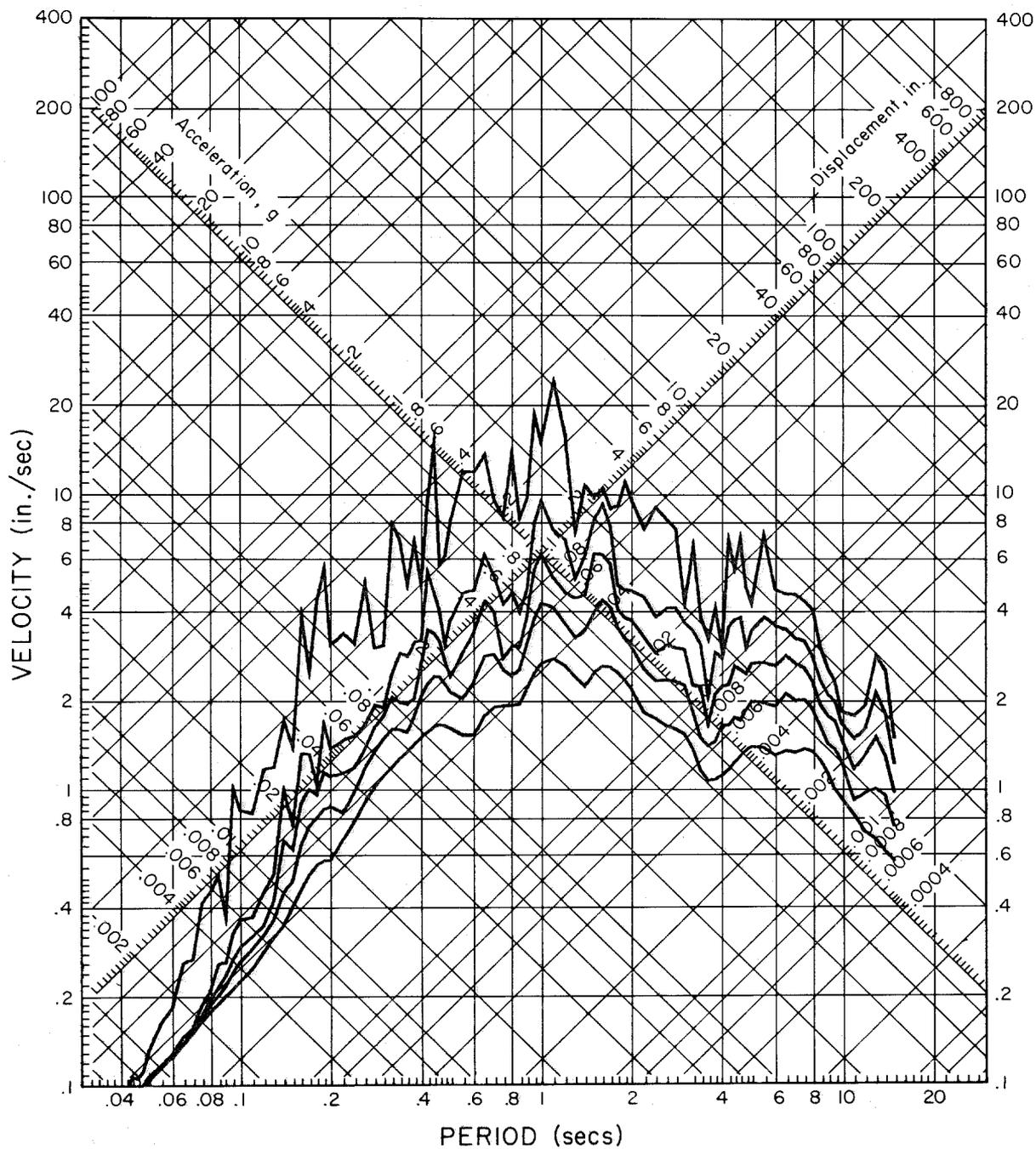


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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



EL ALAMO, BAJA CALIFORNIA EARTHQUAKE FEB 9, 1956 - 0633 PST

IIIIA011 56.001.0 EL CENTRO SITE IMPERIAL VALLEY IRRIG DISTRICT CCMP SOON

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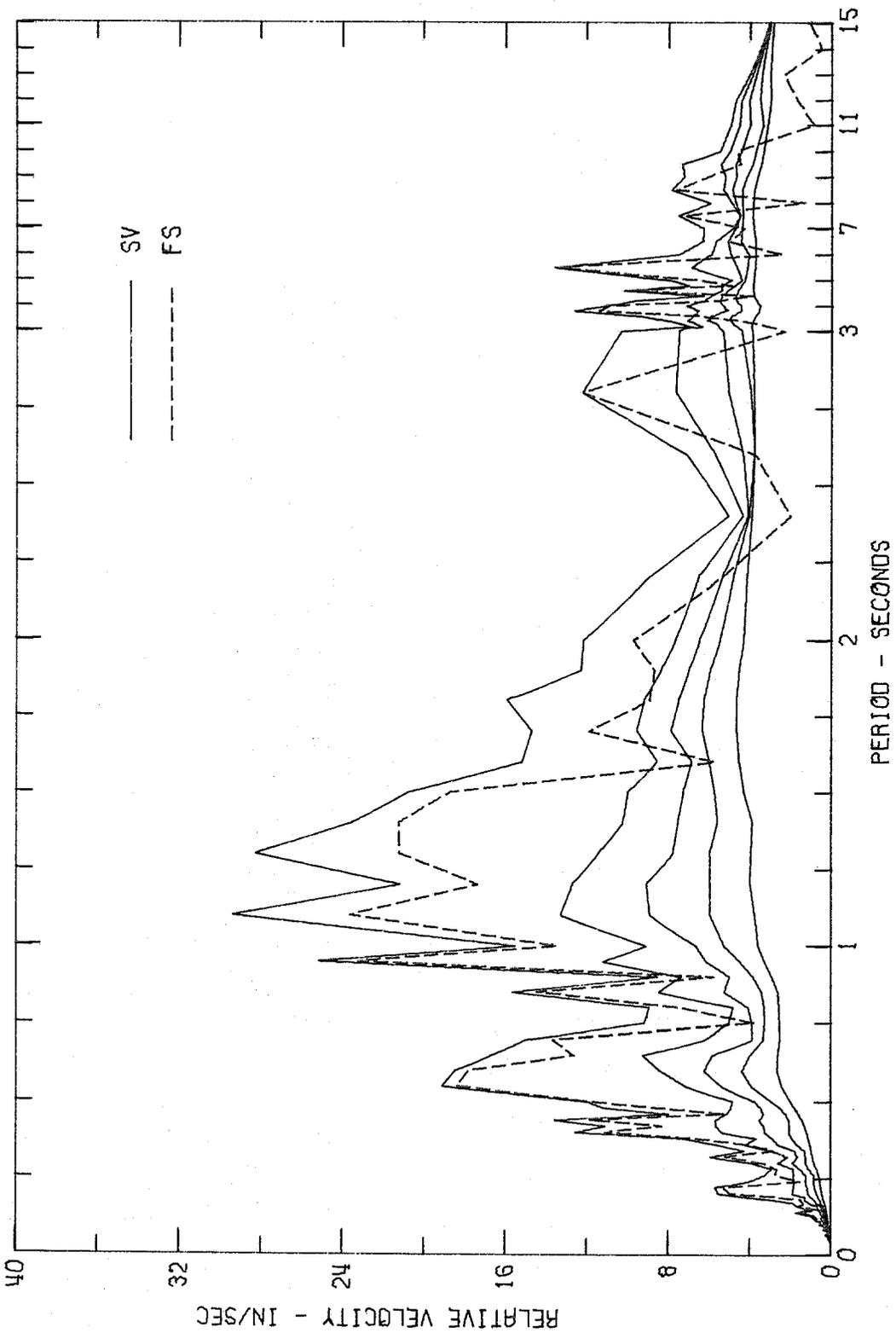
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O.380	590-2	423-3	692-2	300-3	700-2	192-3	309-2	135-3	318-2	125-3	193-2	125-3	193-2	125-3	193-2	108-3	146-2	779-4	779-4	179-2	667-4	109-2	647-4	647-4	143-2	667-4	109-2	647-4	647-4	143-2
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O.420	860-2	652-3	557-2	378-3	976-2	365-3	504-2	212-3	547-2	232-3	296-2	232-3	296-2	232-3	296-2	153-3	202-2	507-4	507-4	229-2	105-3	126-2	649-4	649-4	157-2	105-3	126-2	649-4	649-4	157-2
O.440	148-1	104-2	149-1	553-3	149-1	329-3	442-2	174-3	470-2	236-3	314-2	236-3	314-2	236-3	314-2	170-3	213-2	911-4	911-4	243										

IIIA011 56.001.0 EL CENTRO SITE IMPERIAL VALLEY IRRIG DISTRICT COMP SOOM

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT				DAMPING = 2 PERCENT				DAMPING = 5 PERCENT				DAMPING = 10 PERCENT				DAMPING = 20 PERCENT				
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0.90	854-2	140-2	964-2	177-3	979-2	687-3	478-2	867-4	479-2	559-3	362-2	710-4	390-2	448-3	303-2	578-4	313-2	318-3	239-2	422-4	222-2
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1.00	135-1	243-2	151-1	248-3	152-1	153-2	100-1	157-3	964-2	101-2	688-2	103-3	634-2	681-3	464-2	709-4	428-2	427-3	291-2	466-4	268-2
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12.00	174-2	377-2	258-2	268-5	197-2	316-2	216-2	224-5	165-2	256-2	185-2	184-5	134-2	189-2	183-2	142-5	991-3	140-2	179-2	141-5	733-3
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RELATIVE VELOCITY RESPONSE SPECTRUM
EL ALAMO, BAJA CALIFORNIA EARTHQUAKE FEB 9, 1956 - 0633 PST
111A011 56.001.0 EL CENTRO SITE IMPERIAL VALLEY IRRIG DISTRICT COMP S90W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

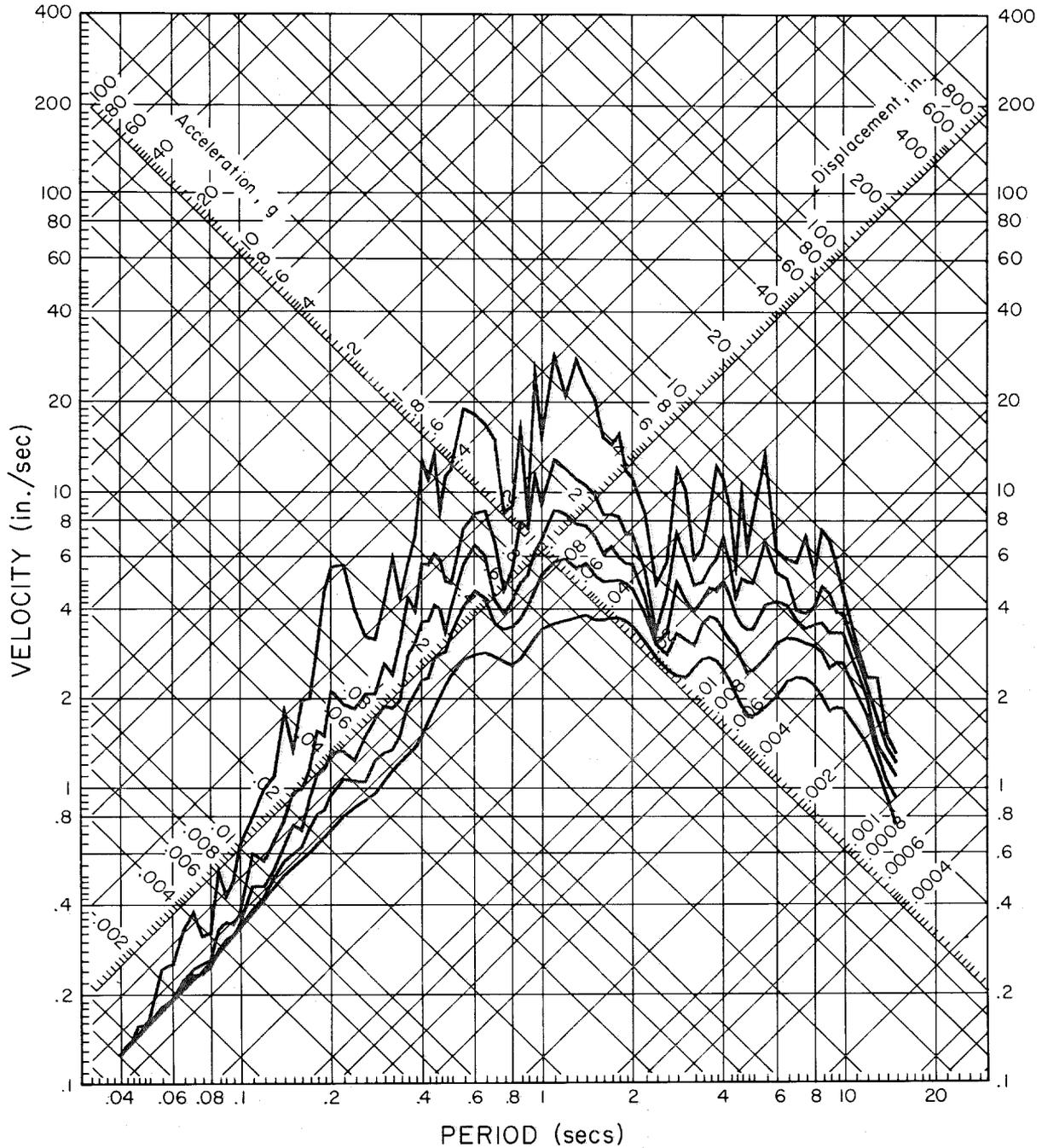


RESPONSE SPECTRUM

EL ALAMO, BAJA CALIFORNIA EARTHQUAKE FEB 9, 1956 - 0633 PST

IIIA011 56.001.0 EL CENTRO SITE IMPERIAL VALLEY IRRIG DISTRICT COMP S90W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



EL ALAMO, BAJA CALIFORNIA EARTHQUAKE FEB 9, 1956 - 0633 PST
IIIA011 56.001.0 EL CENTRO SITE IMPERIAL VALLEY IRRIG DISTRICT COMP S90W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SC AND G FOR SA

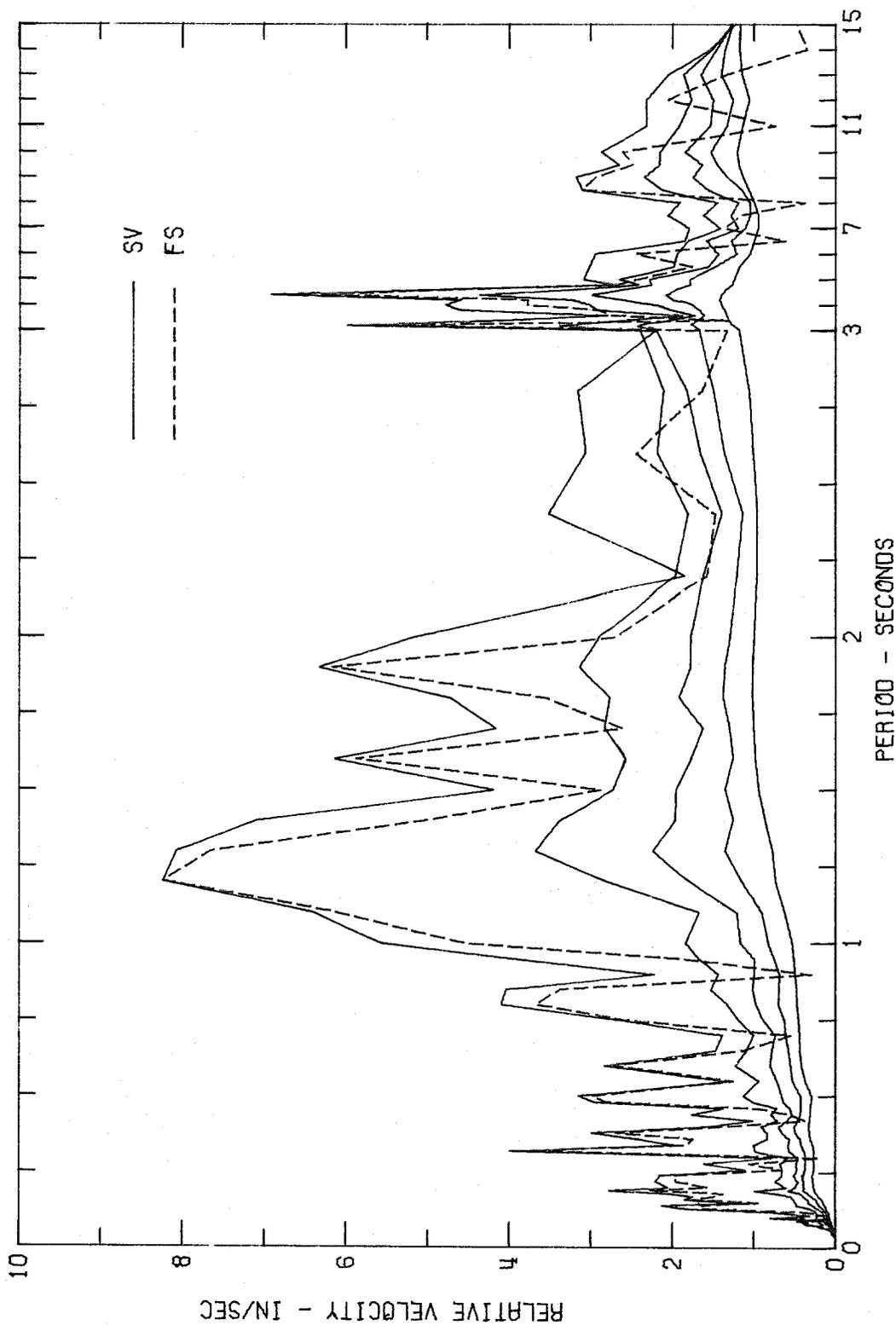
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0.040	120-4	805-6	234-4	514-4	126-3	807-6	176-4	516-4	126-3	806-6	173-4	515-4	126-3	804-6	174-4	513-4	126-3	800-6	172-4	512-4	125-3
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0.400	111-1	823-3	126-1	526-3	129-1	370-3	537-2	237-3	582-2	233-3	327-2	149-3	366-2	148-3	205-2	558-4	232-2	562-4	120-2	625-4	151-2
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0.700	137-1	168-2	149-1	350-3	150-1	767-3	617-2	160-3	688-2	485-3	383-2	102-3	436-2	402-3	331-2	860-4	361-2	312-3	252-2	707-4	280-2

IIIA011 56.001.0 EL CENTRO SITE IMPERIAL VALLEY IRRIG DISTRICT COMP S90M

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SC AND G FOR SA

PER	DAMPING = 0 PERCENT					DAMPING = 2 PERCENT					DAMPING = 5 PERCENT					DAMPING = 10 PERCENT					DAMPING = 20 PERCENT				
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0.85	144-1	224-2	156-1	318-3	166-1	109-2	849-2	154-3	807-2	678-3	528-2	964-4	501-2	511-3	342-2	733-4	378-2	376-3	261-2	560-4	277-2				
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0.95	232-1	386-2	252-1	438-3	255-1	174-2	112-1	197-3	115-1	971-3	616-2	110-3	642-2	117-3	449-2	824-4	474-2	493-3	328-2	604-4	326-2				
1.00	134-1	248-2	154-1	254-3	156-1	148-2	905-2	151-3	931-2	112-2	665-2	115-3	887-2	103-2	597-2	889-4	590-2	636-3	377-2	585-4	363-2				
1.10	236-1	512-2	294-1	433-3	292-1	228-2	132-1	193-3	130-1	155-2	894-2	131-3	887-2	103-2	597-2	889-4	590-2	636-3	377-2	585-4	363-2				
1.20	173-1	409-2	211-1	290-3	214-1	233-2	126-1	166-3	122-1	163-2	910-2	117-3	858-2	115-2	598-2	840-4	605-2	711-3	400-2	550-4	372-2				
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1.60	571-2	394-2	151-1	157-3	155-1	218-2	854-2	873-4	857-2	160-2	686-2	646-4	631-2	129-2	603-2	530-4	507-2	955-3	456-2	416-4	375-2				
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1.80	894-2	458-2	159-1	144-3	159-1	241-2	918-2	761-4	841-2	175-2	748-2	557-4	611-2	146-2	626-2	474-4	512-2	108-2	465-2	364-4	375-2				
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2.20	535-2	303-2	891-2	642-4	867-2	193-2	650-2	409-4	553-2	157-2	533-2	335-4	449-2	137-2	480-2	298-4	392-2	110-2	413-2	270-4	315-2				
2.40	202-2	190-2	245-2	371-4	594-2	191-2	573-2	289-4	461-2	140-2	435-2	213-4	339-2	118-2	377-2	186-4	287-2	106-2	378-2	191-4	257-2				
2.80	122-1	545-2	122-1	711-4	122-1	330-2	766-2	431-4	740-2	225-2	508-2	295-4	504-2	150-2	398-2	202-4	337-2	108-2	381-2	170-4	243-2				
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3.80	114-1	755-2	126-1	535-4	124-1	370-2	653-2	262-4	613-2	284-2	509-2	203-4	470-2	228-2	443-2	173-4	377-2	165-2	356-2	149-4	273-2				
4.00	109-1	724-2	111-1	463-4	113-1	458-2	713-2	293-4	719-2	326-2	531-2	209-4	512-2	220-2	445-2	150-4	345-2	163-2	349-2	137-4	257-2				
4.20	563-2	612-2	557-2	355-4	916-2	392-2	626-2	227-4	586-2	302-2	551-2	176-4	452-2	214-2	469-2	127-4	320-2	157-2	369-2	123-4	235-2				
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4.60	102-1	756-2	102-1	365-4	103-1	381-2	540-2	184-4	520-2	263-2	508-2	128-4	359-2	201-2	460-2	100-4	274-2	141-2	386-2	574-5	193-2				
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6.00	244-2	619-2	748-2	175-4	648-2	522-2	589-2	148-4	547-2	415-2	457-2	118-4	435-2	299-2	405-2	865-5	314-2	199-2	373-2	640-5	208-2				
6.50	500-2	627-2	631-2	151-4	606-2	536-2	568-2	129-4	518-2	435-2	511-2	106-4	421-2	338-2	446-2	740-5	326-2	242-2	373-2	642-5	233-2				
7.00	430-2	658-2	630-2	137-4	590-2	451-2	484-2	862-5	404-2	417-2	472-2	880-5	374-2	361-2	442-2	778-5	324-2	270-2	383-2	634-5	242-2				
7.50	727-2	868-2	753-2	157-4	727-4	727-2	447-2	940-5	395-2	419-2	450-2	773-5	351-2	374-2	436-2	713-5	314-2	285-2	381-2	559-5	239-2				
8.00	135-2	693-2	594-2	110-4	544-2	532-2	492-2	851-5	418-2	462-2	471-2	750-5	362-2	391-2	440-2	665-5	307-2	290-2	386-2	551-5	228-2				
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9.00	608-2	100-1	724-2	126-4	701-2	661-2	522-2	835-5	461-2	484-2	467-2	613-5	338-2	372-2	417-2	495-5	259-2	267-2	363-2	432-5	186-2				
9.50	447-2	878-2	733-2	995-5	580-2	602-2	545-2	685-5	390-2	514-2	471-2	594-5	340-2	411-2	386-2	502-5	272-2	291-2	345-2	423-5	192-2				
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11.00	877-3	564-2	496-2	477-5	322-2	516-2	452-2	438-5	295-2	456-2	395-2	356-5	260-2	380-2	336-2	362-5	217-2	288-2	313-2	353-5	164-2				
12.00	171-2	461-2	470-2	321-5	241-2	433-2	441-2	309-5	226-2	356-2	403-2	293-5	207-2	346-2	352-2	276-5	181-2	275-2	298-2	285-5	144-2				
13.00	234-2	497-2	401-2	301-5	240-2	364-2	388-2	220-5	176-2	296-2	365-2	190-5	143-2	280-2	342-2	201-5	135-2	247-2	300-2	228-5	119-2				
14.00	468-3	343-2	349-2	179-5	153-2	314-2	344-2	165-5	141-2	281-2	336-2	154-5	126-2	241-2	322-2	146-5	108-2	214-2	294-2	189-5	961-3				
15.00	106-2	321-2	302-2	146-5	134-2	299-2	303-2	138-5	125-2	269-2	302-2	131-5	112-2	226-2	298-2	127-5	550-3	184-2	284-2	165-5	773-3				

RELATIVE VELOCITY RESPONSE SPECTRUM
EL ALAMO, BAJA CALIFORNIA EARTHQUAKE FEB 9, 1956 - 0633 PST
IIJA011 56.001.0 EL CENTRO SITE IMPERIAL VALLEY IRRIG DISTRICT COMP VERT
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

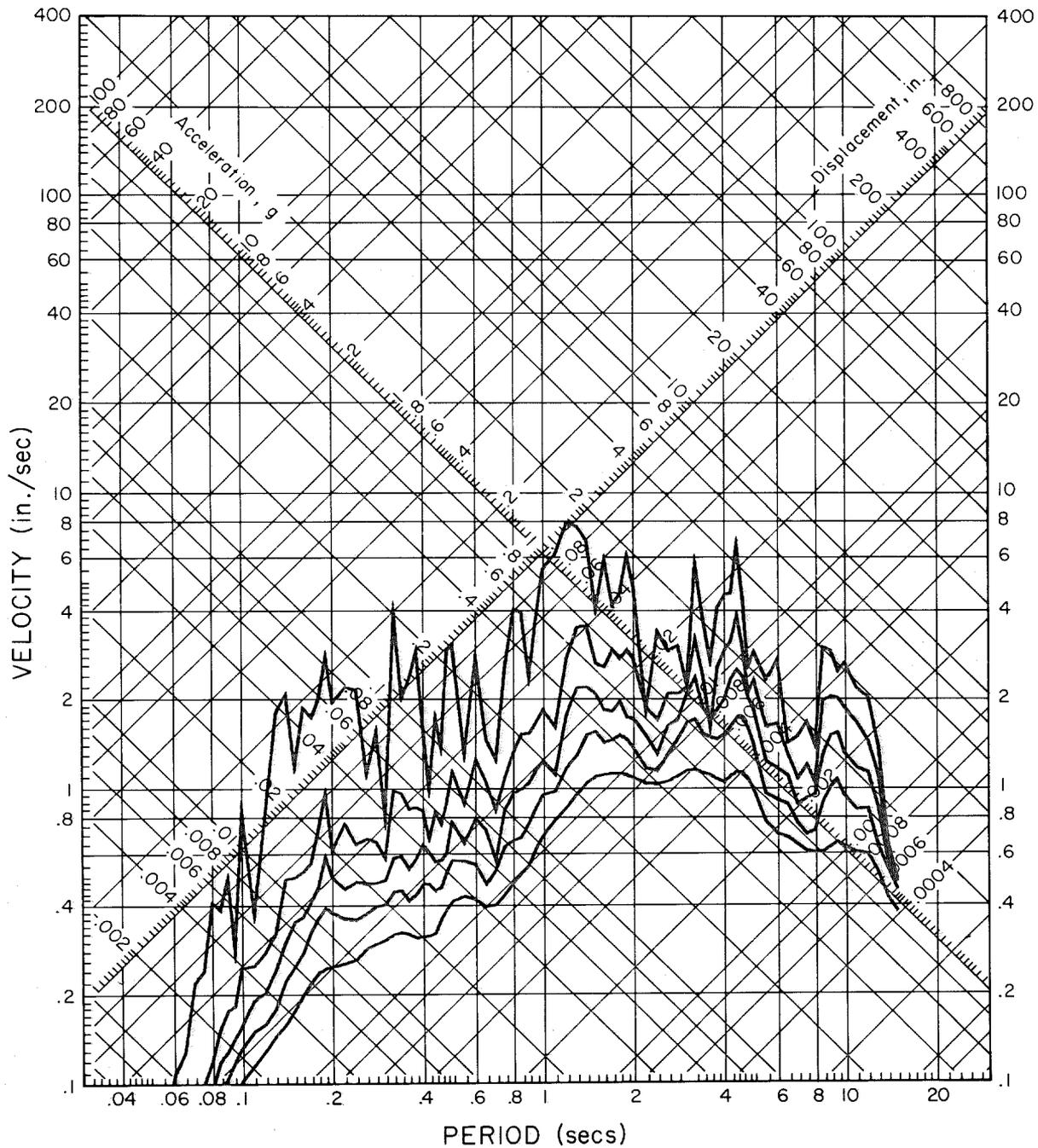


RESPONSE SPECTRUM

EL ALAMO, BAJA CALIFORNIA EARTHQUAKE FEB 9, 1956 - 0633 PST

111A011 56.001.0 EL CENTRO SITE IMPERIAL VALLEY IRRIG DISTRICT COMP VERT

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



EL ALAMO, BAJA CALIFORNIA EARTHQUAKE FEB 9, 1956 - 0633 PST

IIIA011 56.001.0 EL CENTRO SITE IMPERIAL VALLEY IRRIG DISTRICT CGMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

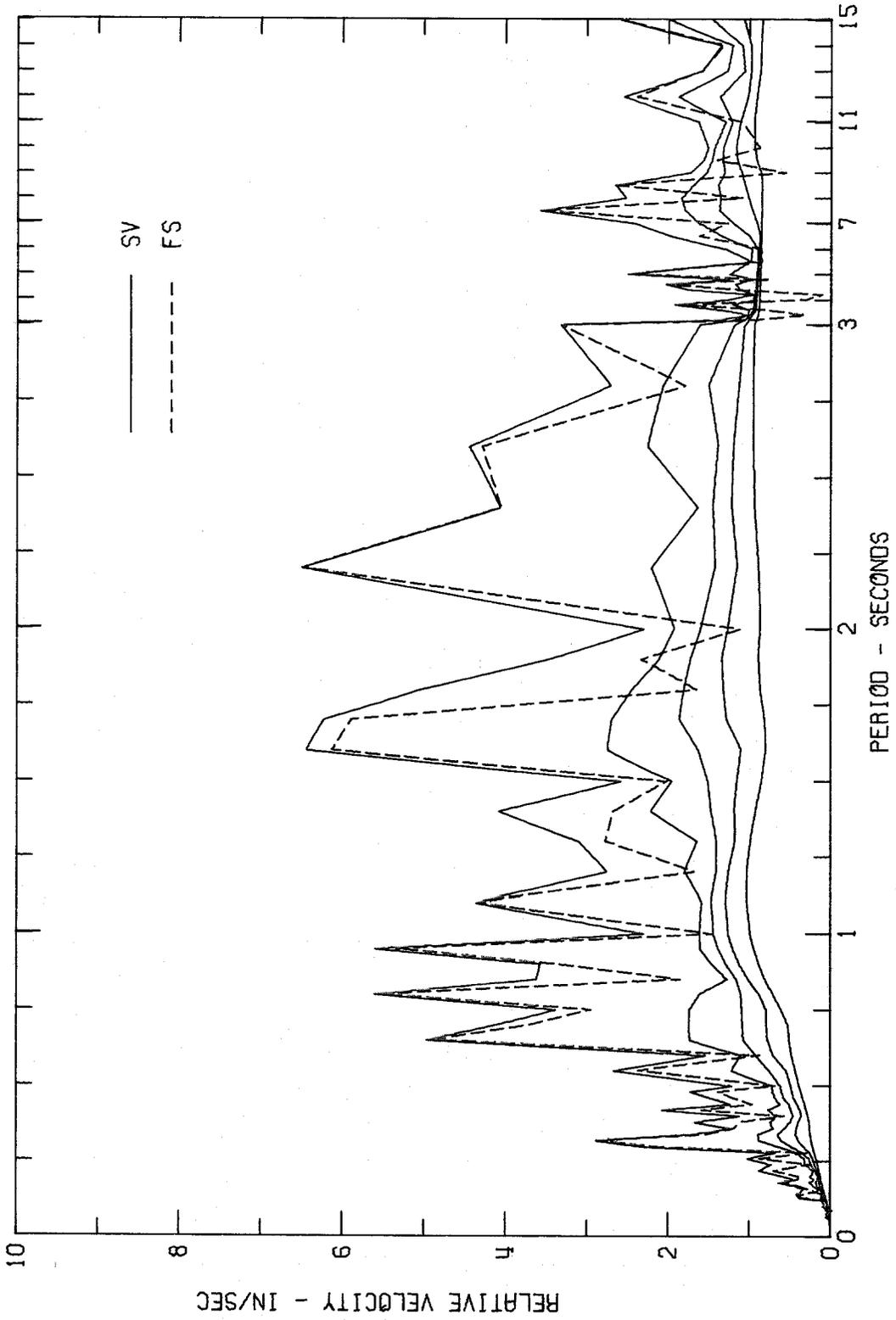
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0.042	136-4	289-6	189-4	167-4	433-4	238-6	132-4	138-4	357-4	235-6	115-4	136-4	352-4	232-6	955-5	228-6	835-5	133-4	347-4	228-6	835-5	133-4	341-4		
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0.046	349-4	448-6	413-4	216-4	613-4	292-6	154-4	141-4	398-4	288-6	136-4	136-4	394-4	284-6	112-4	278-6	105-4	135-4	388-4	278-6	105-4	135-4	380-4		
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IIIIA011 56.C01.0 EL CENTRO SITE IMPERIAL VALLEY IRRIG DISTRICT CCMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
EL ALAMO, BAJA CALIFORNIA AFTERSHOCK FEB 9, 1956 - 0725 PST
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

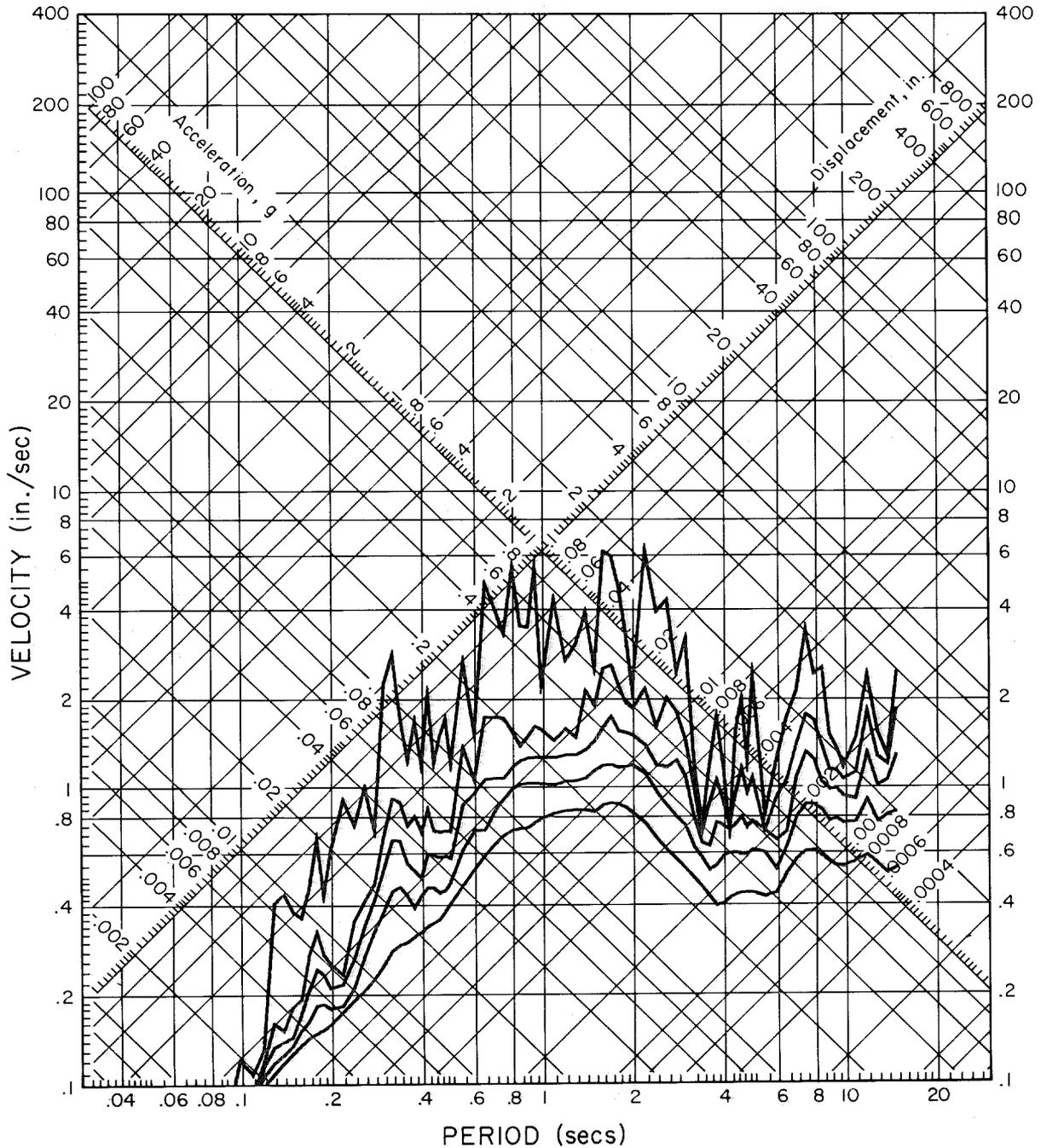


RESPONSE SPECTRUM

EL ALAMO, BAJA CALIFORNIA AFTERSHOCK FEB 9, 1956 - 0725 PST

IIIA012 56.002.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP S00W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



EL ALAMO, BAJA CALIFORNIA AFTERSHOCK FEB 9, 1956 - 0725 PST

IIIA012 56.002.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP SOOW

THE UNITS USED ARE SEC FUR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

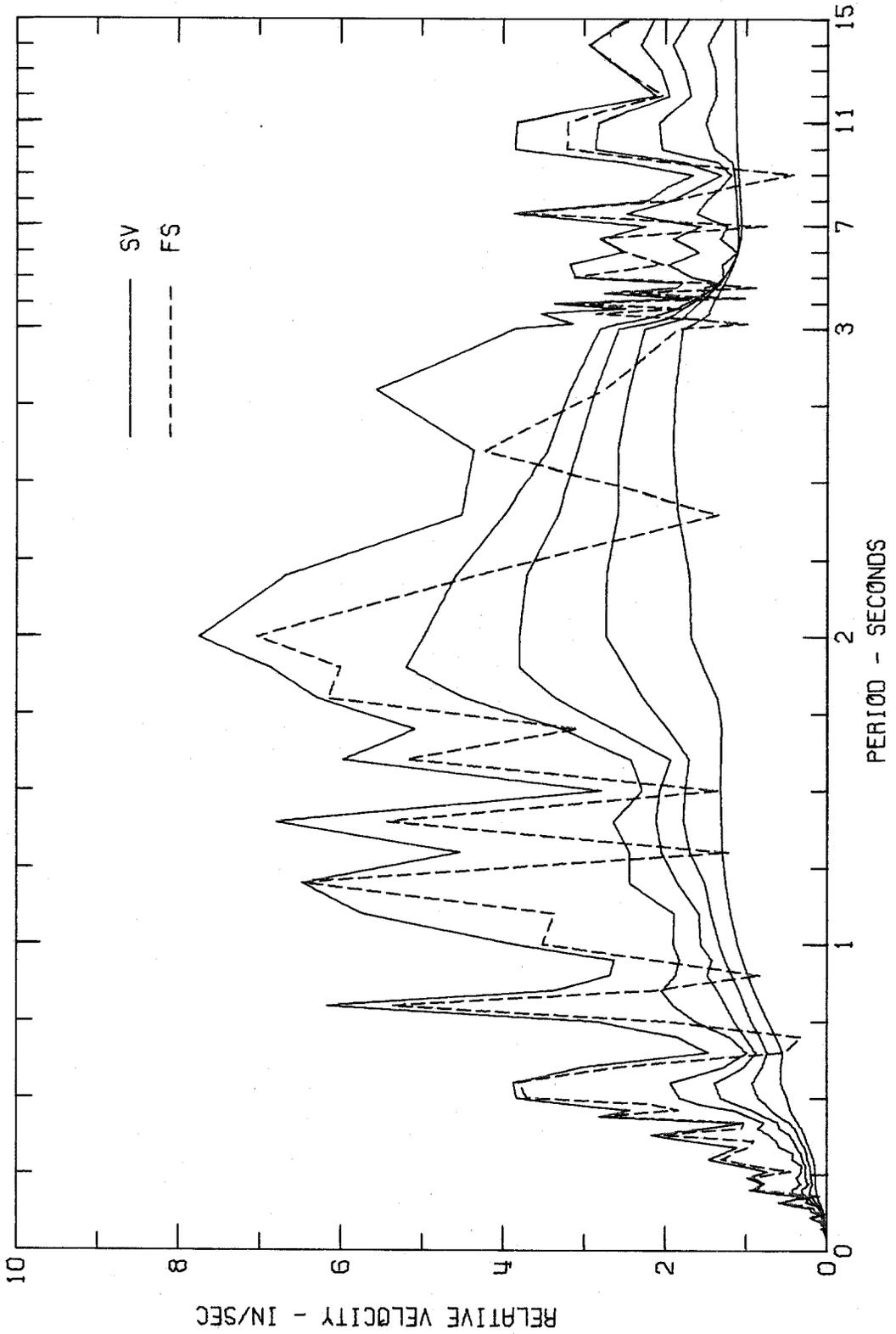
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IIIAJ12 56.002.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP 500W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
EL ALAMO, BAJA CALIFORNIA AFTERSHOCK FEB 9, 1956 - 0725 PST
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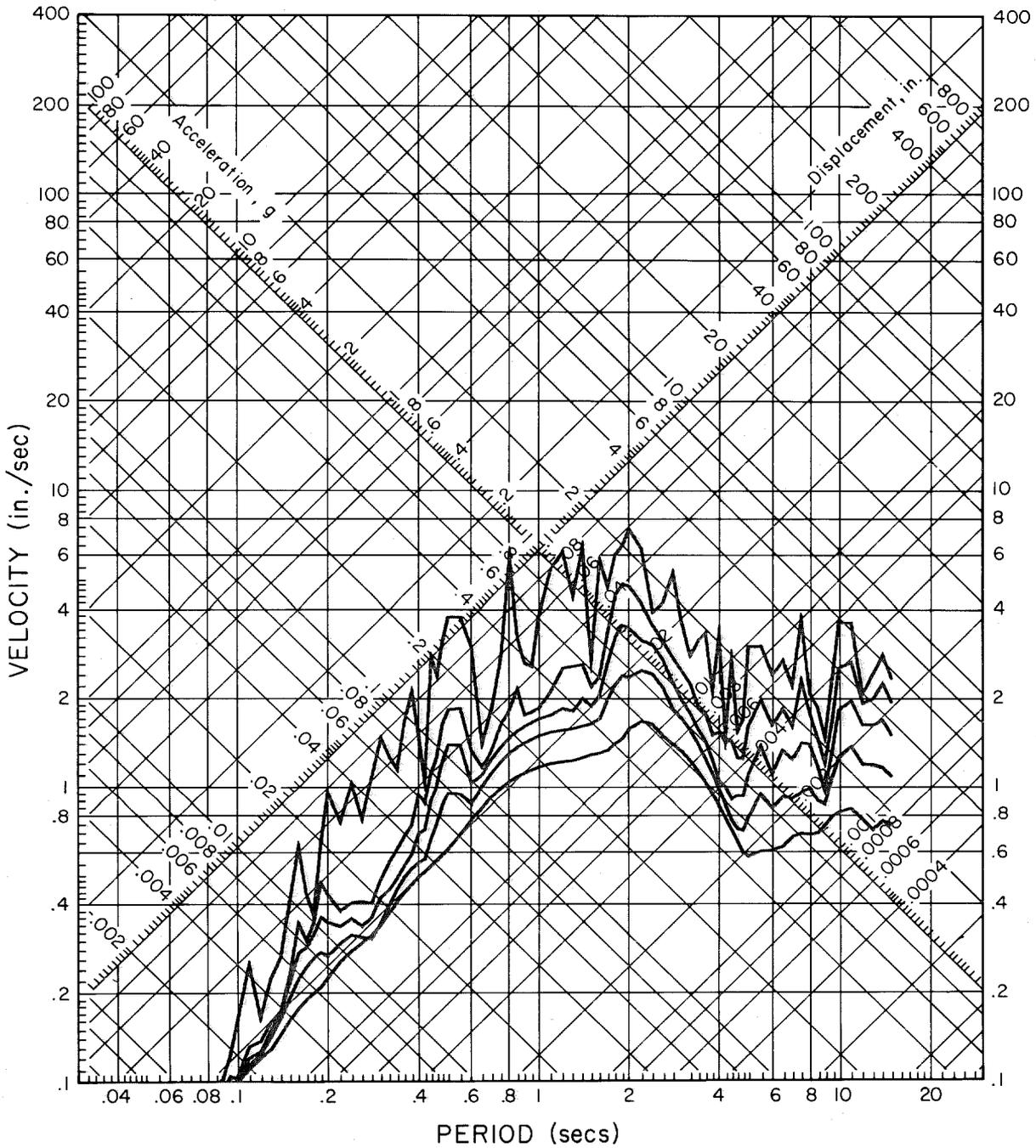


RESPONSE SPECTRUM

EL ALAMO, BAJA CALIFORNIA AFTERSHOCK FEB 9, 1956 - 0725 PST

IIIAQ12 56.002.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP S90W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



EL ALAMO, BAJA CALIFORNIA AFTERSHOCK FEB 9, 1956 - 0725 PST
IIIAJ12 56.002.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP S90W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

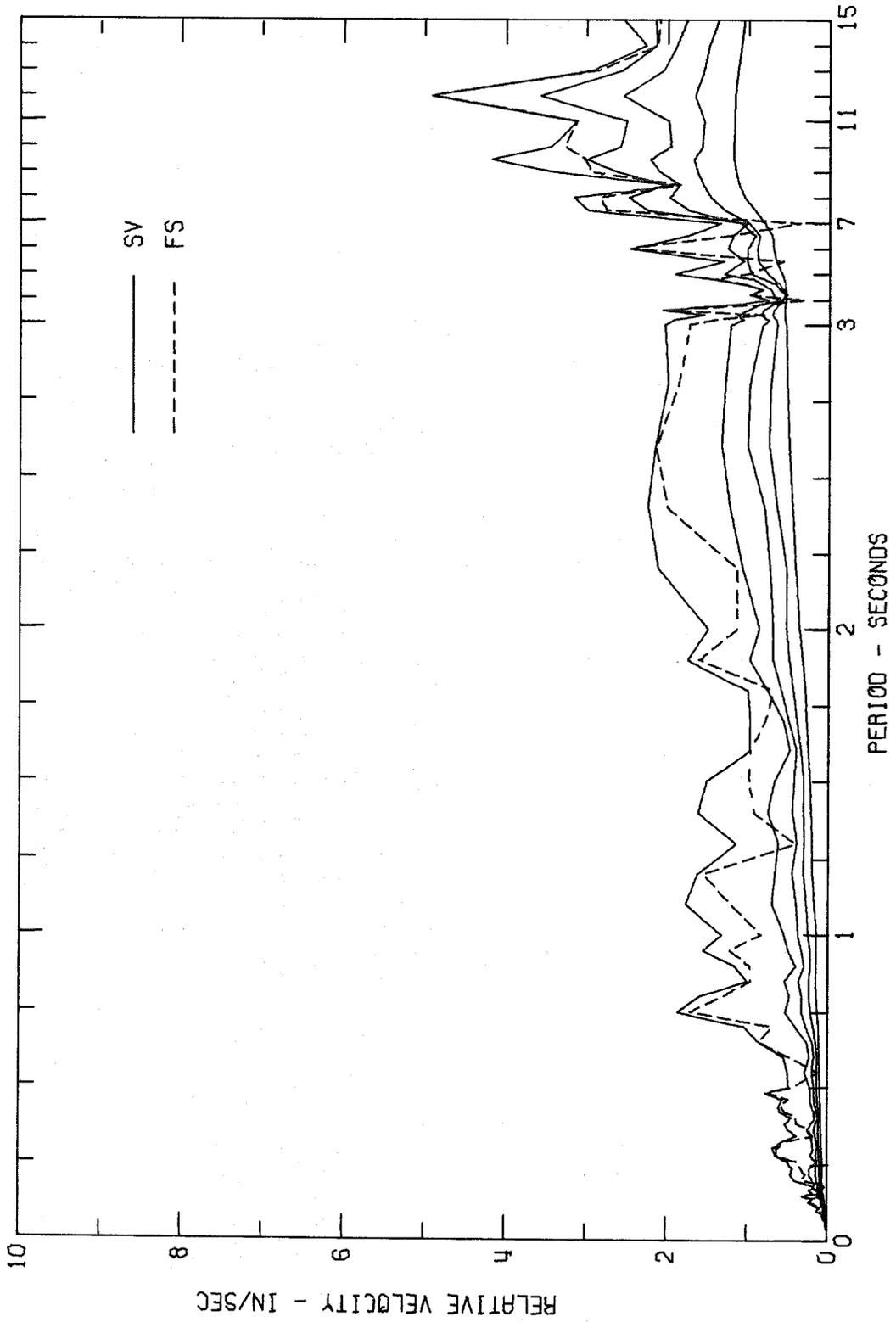
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0.050	122-4	456-6	155-4	186-4	513-4	405-6	949-5	166-4	509-4	393-6	906-5	161-4	494-4	391-6	842-5	160-4	491-4	390-6	740-5	159-4	490-4
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IIIA012 56.002.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP S90W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

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13.00	252-2	523-2	253-2	317-5	253-2	431-2	205-2	261-5	208-2	350-2	176-2	213-5	169-2	256-2	178-2	158-5	124-2	154-2	113-2	109-5	748-3				
14.00	294-2	656-2	294-2	342-5	294-2	525-2	230-2	274-5	235-2	392-2	191-2	205-5	176-2	270-2	147-2	145-5	121-2	178-2	113-2	102-5	801-3				
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RELATIVE VELOCITY RESPONSE SPECTRUM
EL ALAMO, BAJA CALIFORNIA AFTERSHOCK FEB 9, 1956 - 0725 PST
I111A012 56.002.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP VERT
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

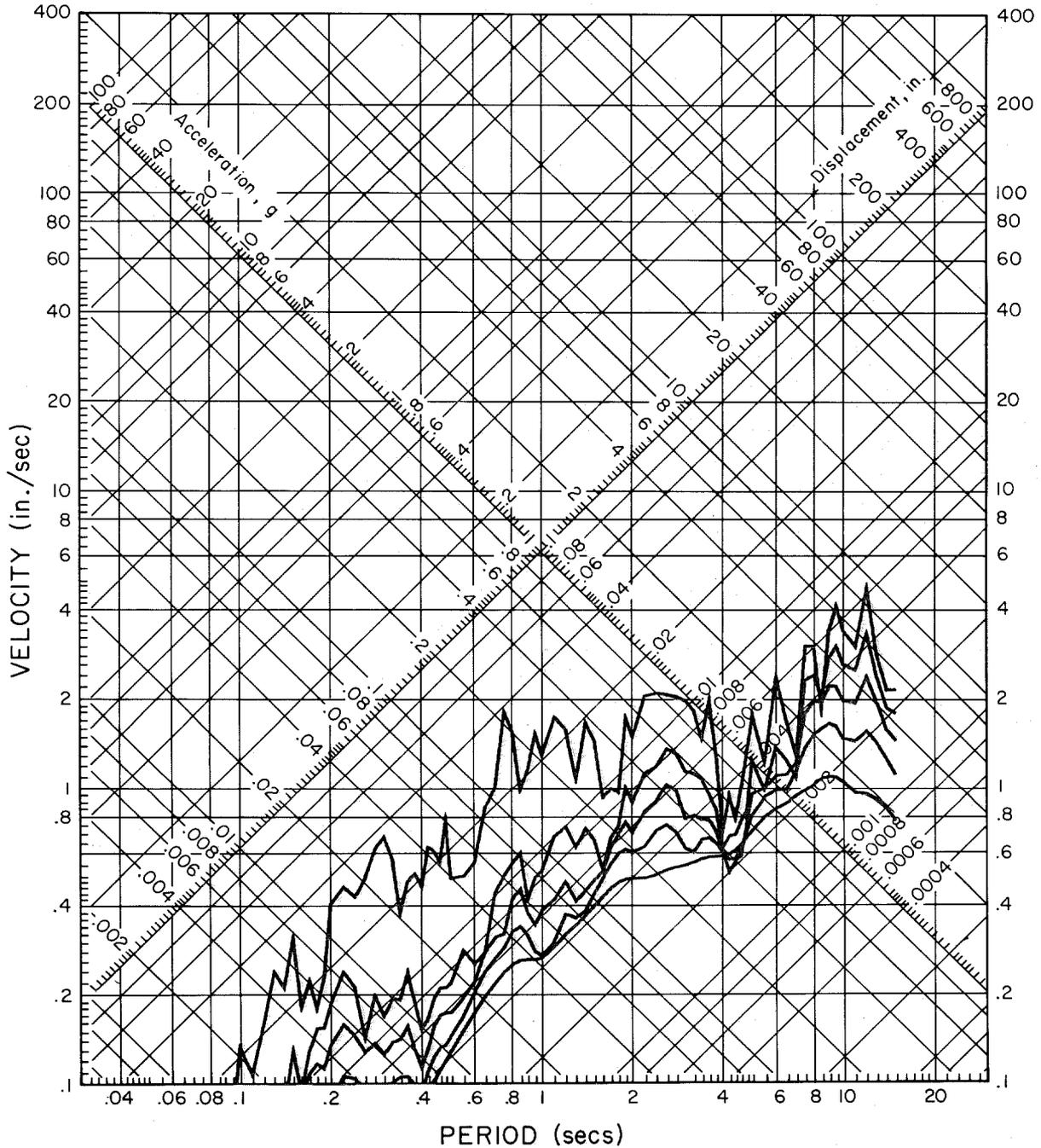


RESPONSE SPECTRUM

EL ALAMO, BAJA CALIFORNIA AFTERSHOCK FEB 9, 1956 - 0725 PST

IIIA012 56.002.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP VERT

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



EL ALAMO, BAJA CALIFORNIA AFTERSHOCK FEB 9, 1956 - 0725 PST
IIIAJ12 56.002.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

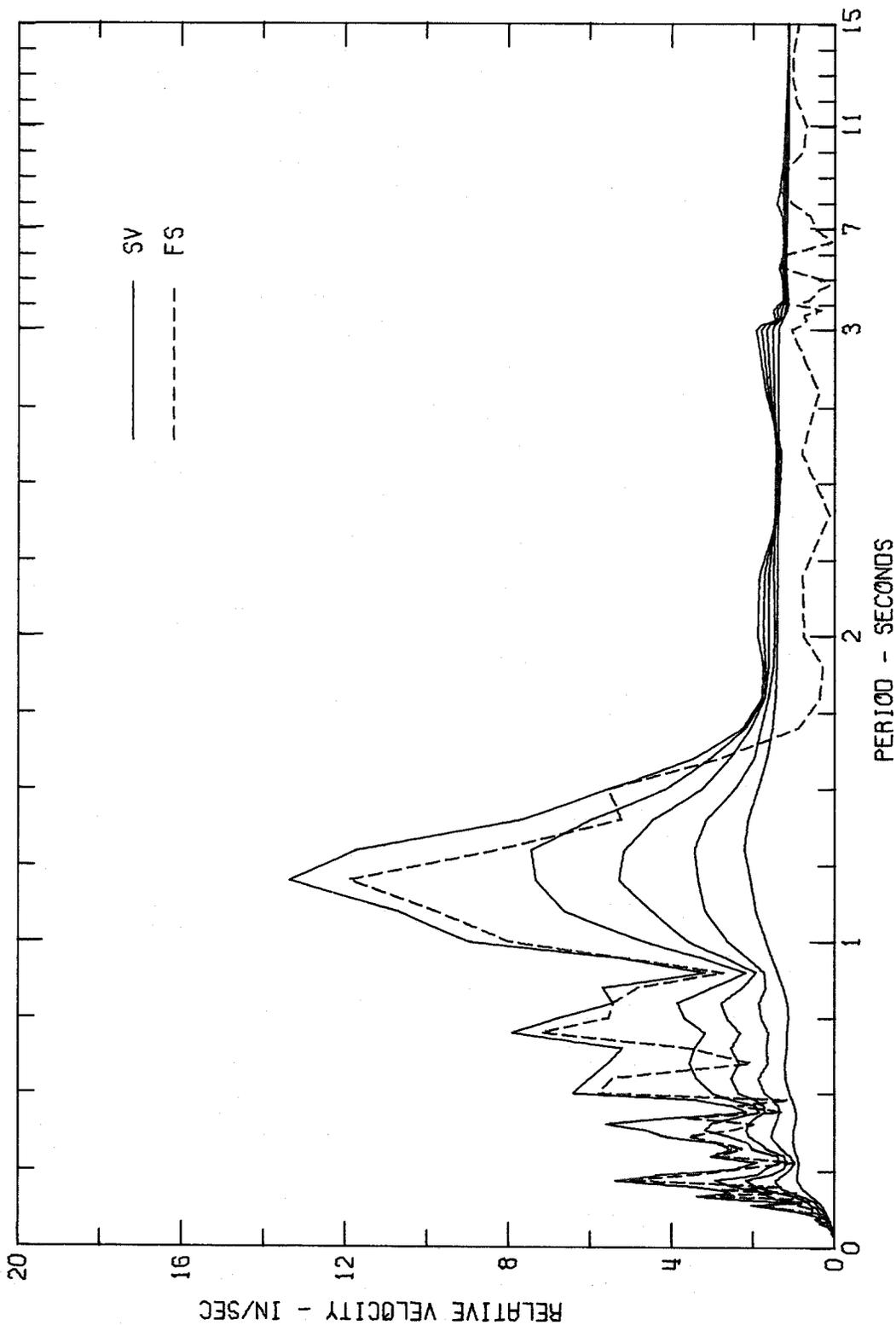
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0.040	113-4	126-6	121-4	810-5	199-4	821-7	101-4	523-5	129-4	624-7	873-5	395-5	980-5	593-7	771-5	379-5	932-5	593-7	608-5	379-5	931-5
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IIIA12 56.002.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT				DAMPING = 2 PERCENT				DAMPING = 5 PERCENT				DAMPING = 10 PERCENT				DAMPING = 20 PERCENT				
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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
111A013 57.002.0 SAN FRANCISCO SOUTHERN PACIFIC BUILDING BASEMENT COMP N45E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

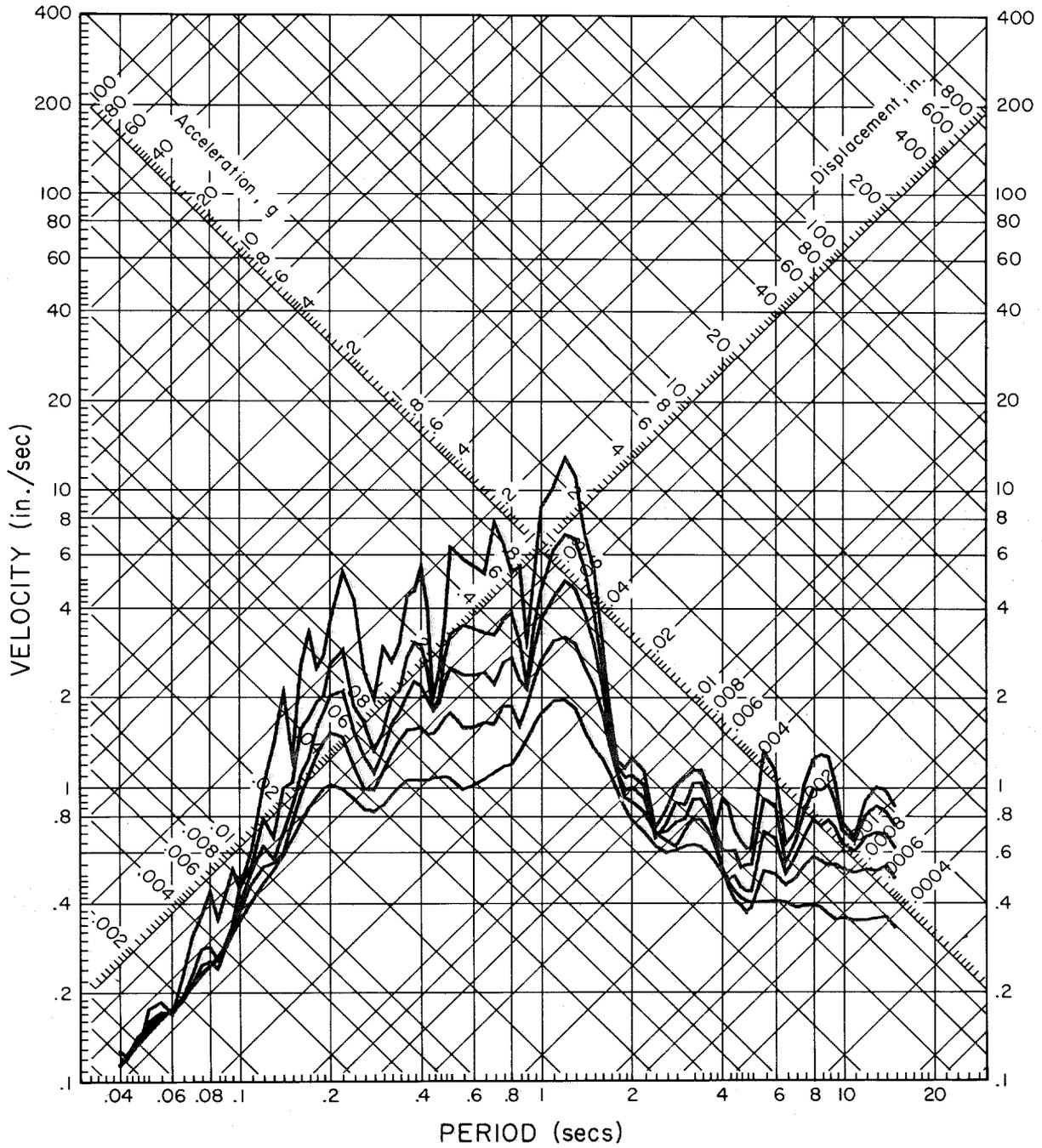


RESPONSE SPECTRUM

SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST

IIIA013 57.002.0 SAN FRANCISCO SOUTHERN PACIFIC BUILDING BASEMENT COMP N45E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
IIIA013 57.002.0 SAN FRANCISCO SOUTHERN PACIFIC BUILDING BASEMENT COMP N45E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

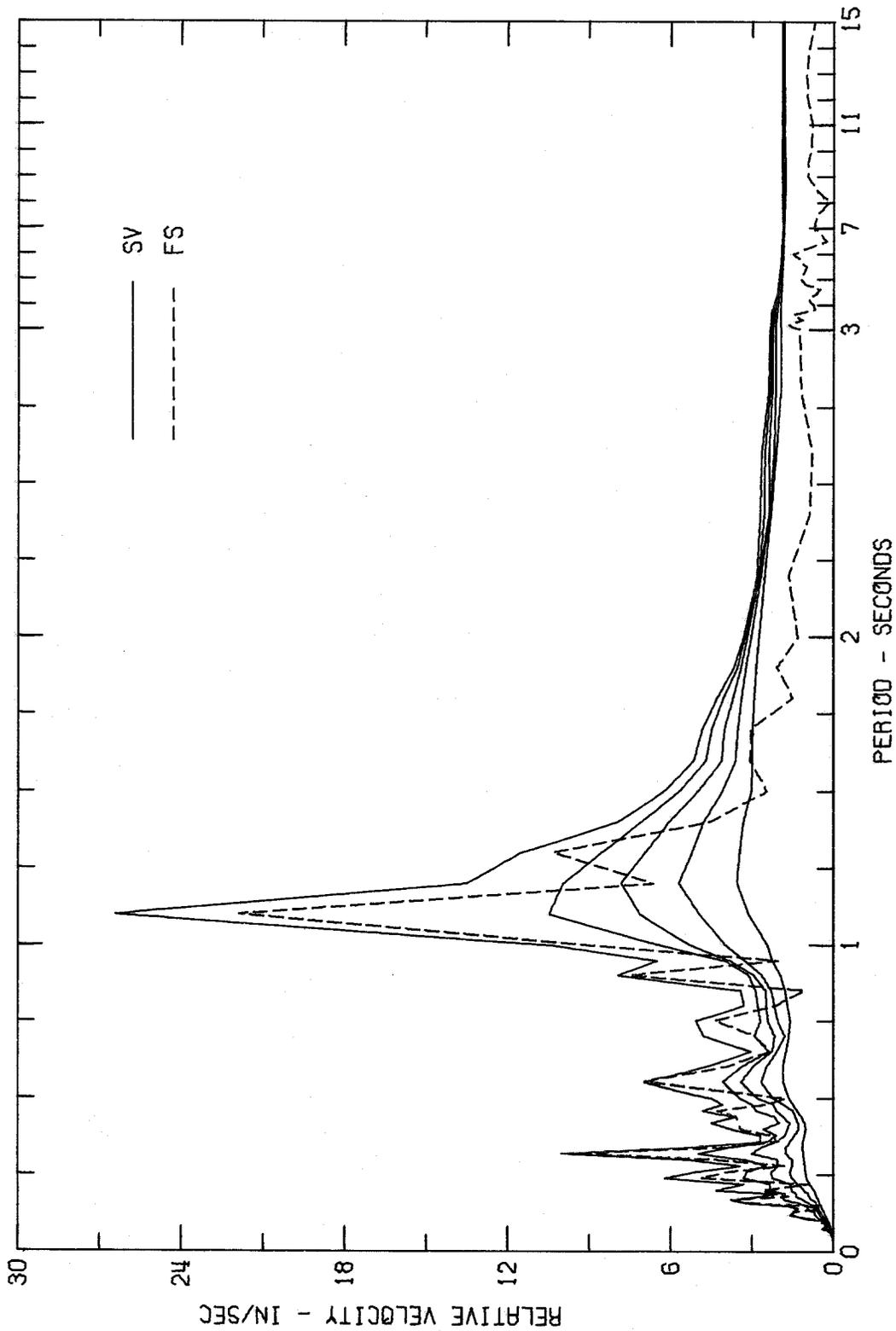
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0.650																												

IIIA013 57.002.0 SAN FRANCISCO SOUTHERN PACIFIC BUILDING BASEMENT COMP N45E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT					DAMPING = 2 PERCENT					DAMPING = 5 PERCENT					DAMPING = 10 PERCENT					DAMPING = 20 PERCENT				
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8.50	134-2	182-2	134-2	257-5	134-2	137-2	126-2	195-5	102-2	104-2	123-2	149-5	768-3	790-3	119-2	117-5	584-3	548-3	116-2	132-5	405-3				
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9.50	107-2	162-2	126-2	183-5	107-2	139-2	125-2	157-5	920-3	114-2	122-2	129-5	754-3	862-3	119-2	996-6	570-3	557-3	114-2	111-5	368-3				
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15.00	894-3	213-2	113-2	971-6	895-3	184-2	113-2	839-6	772-3	154-2	113-2	719-6	646-3	121-2	113-2	608-6	508-3	826-3	112-2	614-6	346-3				

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
III1013 57.002.0 SAN FRANCISCO SOUTHERN PACIFIC BUILDING BASEMENT COMP N45W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

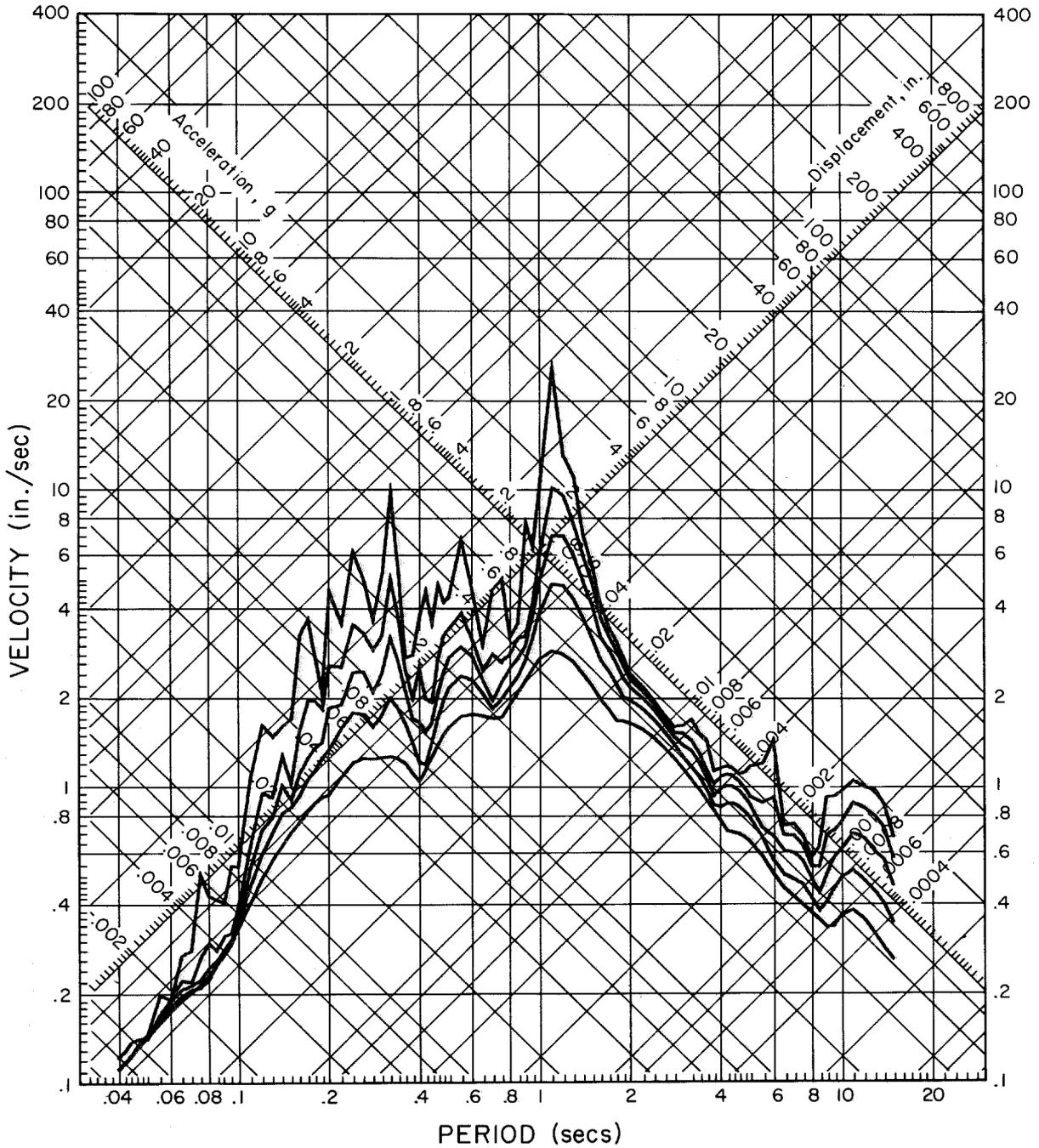


RESPONSE SPECTRUM

SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST

IIIA013 57.002.0 SAN FRANCISCO SOUTHERN PACIFIC BUILDING BASEMENT COMP N45W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
IIIA013 57.002.0 SAN FRANCISCO SOUTHERN PACIFIC BUILDING BASEMENT COMP N45W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

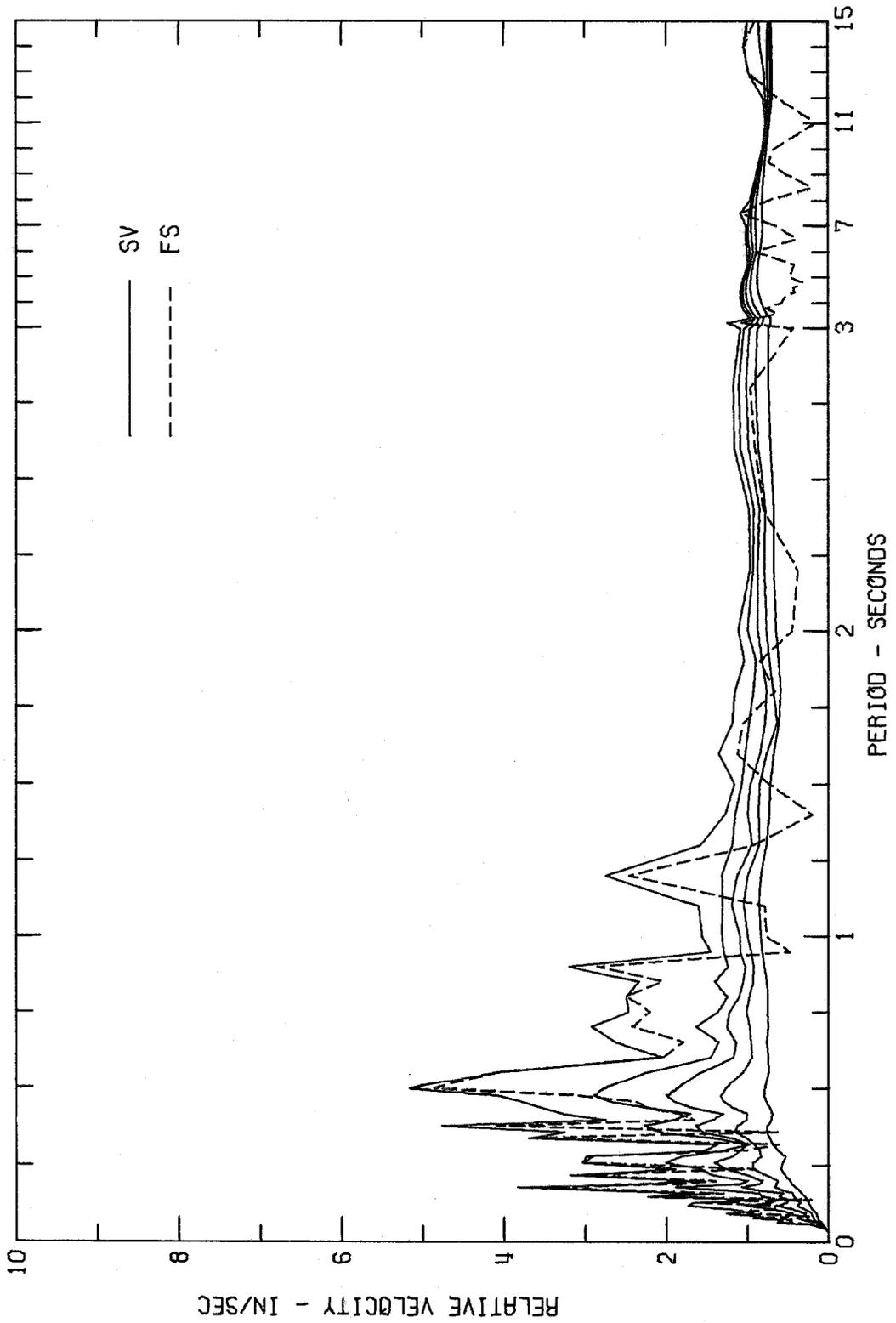
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0.044	251-4	984-6	448-4	519-4	140-3	883-6	240-4	466-4	126-3	883-6	232-4	467-4	126-3	889-6	223-4	469-4	126-3	887-6	214-4	471-4	126-3
0.046	229-4	105-5	364-4	509-4	144-3	993-6	273-4	480-4	135-3	983-6	264-4	475-4	134-3	981-6	250-4	478-4	134-3	975-6	239-4	473-4	133-3
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0.060	596-4	188-5	874-4	534-4	197-3	190-5	677-4	540-4	199-3	186-5	584-4	531-4	195-3	178-5	543-4	509-4	187-3	171-5	482-4	490-4	179-3
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0.080	148-3	559-5	290-3	894-4	439-3	387-5	171-3	620-4	304-3	319-5	130-3	511-4	250-3	292-5	113-3	468-4	229-3	301-5	998-4	484-4	236-3
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IIIA1013 57.002.0 SAN FRANCISCO SOUTHERN PACIFIC BUILDING BASEMENT COMP N45W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT					DAMPING = 2 PERCENT					DAMPING = 5 PERCENT					DAMPING = 10 PERCENT					DAMPING = 20 PERCENT				
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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
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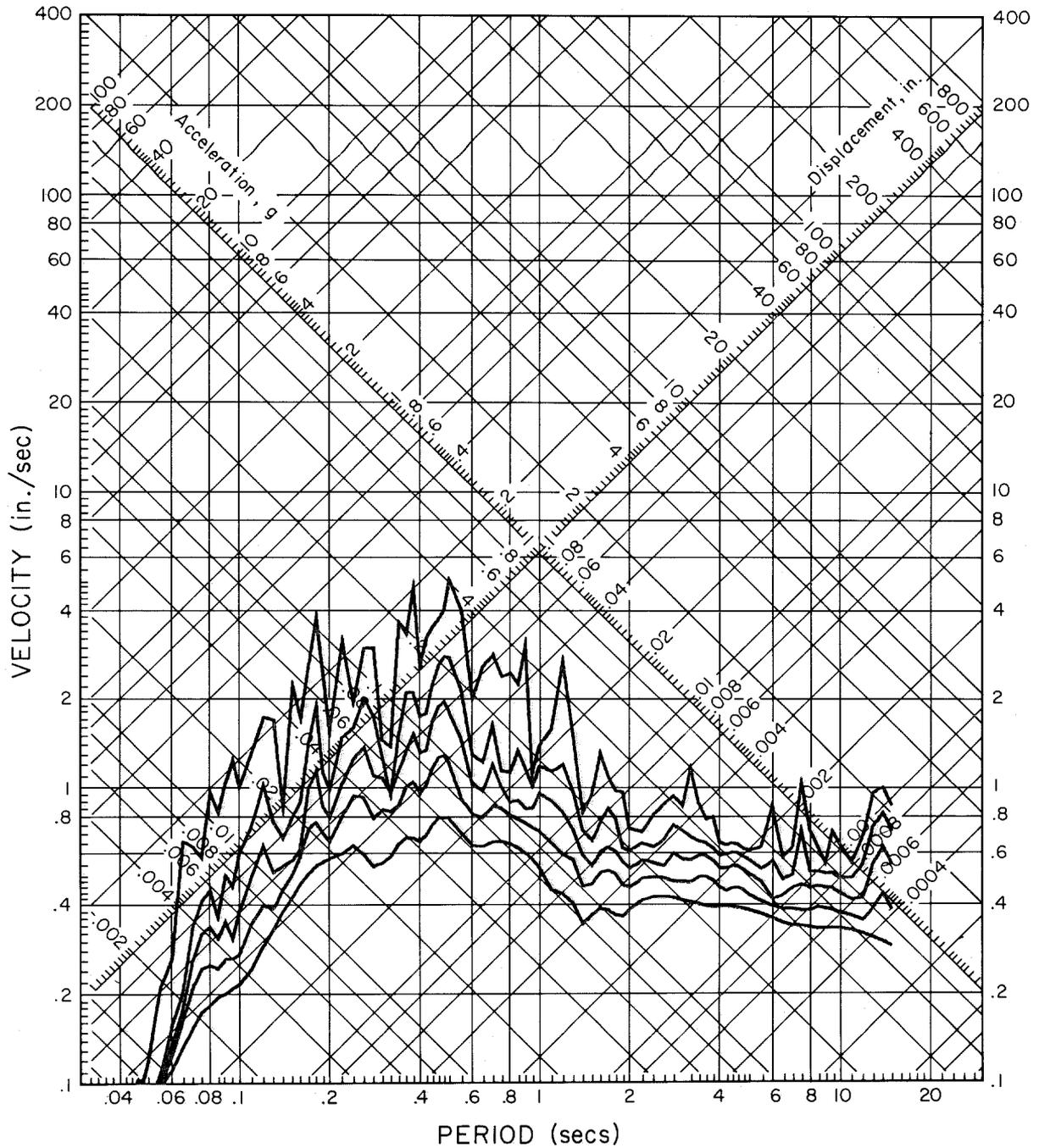


RESPONSE SPECTRUM

SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST

IIIA013 57.002.0 SAN FRANCISCO SOUTHERN PACIFIC BUILDING BASEMENT COMP VERT

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST

IIIA13 57.002.0 SAN FRANCISCO SOUTHERN PACIFIC BUILDING BASEMENT COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

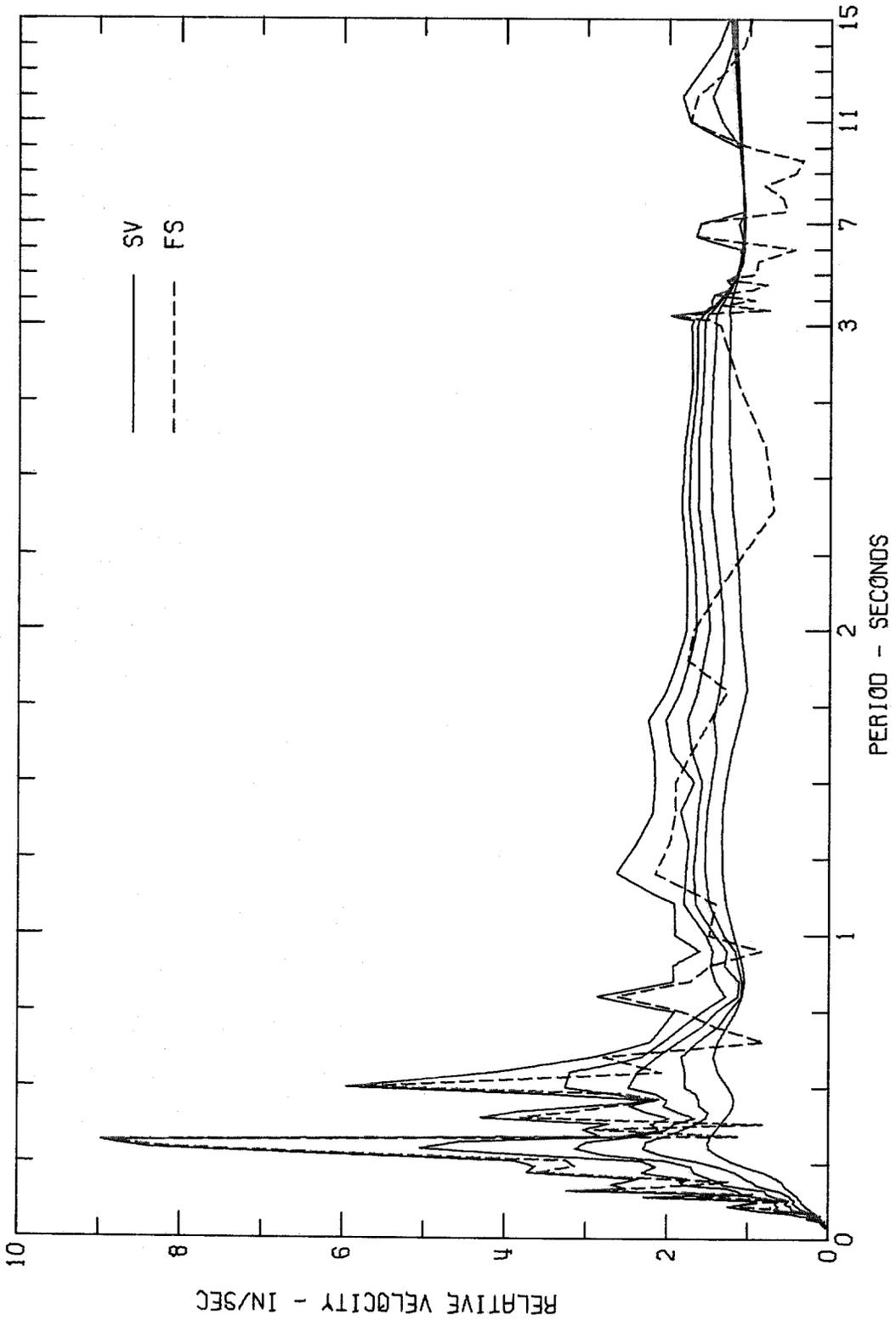
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0.400	165-2	169-3	274-2	108-3	265-2	113-3	189-2	726-4	177-2	858-4	149-2	548-4	134-2	622-4	100-2	412-4	977-3	429-4	699-3	305-4	709-3	429-4	699-3	305-4	709-3	
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0.480	310-2	314-3	408-2	139-3	411-2	217-3	288-2	963-4	284-2	152-3	199-2	675-4	199-2	100-3	133-2	454-4	131-2	620-4	797-3	294-4	812-3	620-4	797-3	294-4	812-3	
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0.550	407-2	358-3	410-2	121-3	410-2	190-3	224-2	643-4	217-2	130-3	157-2	441-4	148-2	825-4	105-2	286-4	942-3	630-4	734-3	232-4	720-3	630-4	734-3	232-4	720-3	
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0.650	178-2	271-3	262-2	658-4	262-2	129-3	135-2	313-4	124-2	102-3	113-2	249-4	992-3	840-4	956-3	208-4	812-3	670-4	761-3	183-4	648-3	670-4	761-3	183-4	648-3	
0.700	241-2	323-3	291-2	675-4	290-2	184-3	163-2	386-4	165-2	136-3	125-2	287-4	122-2													

IIIA013 57.002.0 SAN FRANCISCO SOUTHERN PACIFIC BUILDING BASEMENT COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT				DAMPING = 2 PERCENT				DAMPING = 5 PERCENT				DAMPING = 10 PERCENT				DAMPING = 20 PERCENT				
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0.80	249-2	318-3	249-2	508-4	250-2	146-3	124-2	235-4	115-2	116-3	109-2	186-4	912-3	105-3	972-2	173-4	827-3	844-4	745-4	153-4	663-3
0.85	203-2	309-3	233-2	438-4	228-2	184-3	140-2	261-4	136-2	126-3	105-2	179-4	931-3	108-3	923-3	158-4	803-3	868-4	757-3	141-4	642-3
0.90	284-2	447-3	320-2	565-4	312-2	169-3	123-2	214-4	118-2	124-3	101-2	157-4	869-3	111-3	919-3	144-4	777-3	883-4	789-3	128-4	616-3
0.95	469-3	173-3	144-2	196-4	114-2	156-3	129-2	177-4	103-2	131-3	108-2	150-4	871-3	113-3	949-3	133-4	751-3	888-4	815-3	115-4	587-3
1.00	764-3	225-3	155-2	230-4	141-2	192-3	131-2	191-4	120-2	155-3	109-2	160-4	977-3	116-3	995-3	122-4	729-3	877-4	834-3	103-4	551-3
1.10	786-3	282-3	160-2	239-4	161-2	203-3	130-2	172-4	116-2	161-3	119-2	137-4	921-3	116-3	104-2	101-4	666-3	812-4	856-3	809-5	463-3
1.20	246-2	525-3	274-2	373-4	275-2	235-3	131-2	167-4	123-2	161-3	112-2	115-4	844-3	116-3	988-3	859-5	609-3	854-4	828-3	735-5	447-3
1.30	925-3	314-3	157-2	190-4	151-2	204-3	117-2	124-4	990-3	152-3	942-3	929-5	735-3	120-3	851-3	757-5	583-3	859-4	757-3	636-5	415-3
1.40	194-3	189-3	127-2	988-5	850-3	163-3	114-2	853-5	731-3	134-3	997-3	715-5	605-3	106-3	858-3	589-5	477-3	793-4	727-3	515-5	356-3
1.50	729-3	231-3	115-2	105-4	971-3	162-3	106-2	739-5	679-3	133-3	961-3	611-5	558-3	116-3	843-3	549-5	486-3	914-4	712-3	483-5	383-3
1.60	112-2	341-3	135-2	136-4	133-2	198-3	102-2	793-5	779-3	158-3	838-3	643-5	623-3	134-3	757-3	563-5	528-3	101-3	669-3	480-5	397-3
1.70	105-2	302-3	118-2	106-4	111-2	236-3	974-3	839-5	873-3	174-3	776-3	628-5	644-3	145-3	628-3	550-5	538-3	107-3	606-3	463-5	395-3
1.80	655-3	286-3	114-2	903-5	989-3	229-3	918-3	724-5	799-3	178-3	758-3	579-5	624-3	149-3	678-3	511-5	522-3	109-3	587-3	435-5	380-3
1.90	848-3	297-3	103-2	843-5	985-3	194-3	890-3	551-5	642-3	173-3	817-3	505-5	574-3	145-3	732-3	394-5	473-3	126-3	644-3	359-5	398-3
2.00	446-3	238-3	110-2	608-5	748-3	200-3	996-3	512-5	629-3	174-3	871-3	453-5	548-3	150-3	767-3	394-5	473-3	126-3	644-3	359-5	398-3
2.20	376-3	255-3	967-3	538-5	728-3	232-3	925-3	492-5	665-3	203-3	870-3	434-5	582-3	176-3	791-3	391-5	505-3	149-3	673-3	353-5	428-3
2.40	758-3	318-3	116-2	565-5	833-3	247-3	912-3	440-5	647-3	218-3	844-3	394-5	571-3	195-3	777-3	371-5	512-3	168-3	676-3	344-5	440-3
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2.80	966-3	430-3	117-2	561-5	966-3	342-3	110-2	448-5	769-3	275-3	101-2	365-5	619-3	221-3	897-3	316-5	496-3	194-3	740-3	310-5	437-3
3.00	433-3	425-3	108-2	483-5	890-3	351-3	103-2	400-5	736-3	280-3	966-3	325-5	588-3	236-3	871-3	290-5	494-3	204-3	734-3	282-5	429-3
3.20	108-2	607-3	125-2	606-5	119-2	356-3	943-3	357-5	700-3	300-3	869-3	307-5	589-3	251-3	806-3	269-5	492-3	215-3	704-3	278-5	422-3
3.40	864-3	493-3	962-3	436-5	912-3	366-3	907-3	325-5	678-3	329-3	860-3	296-5	608-3	278-3	796-3	262-5	514-3	225-3	712-3	258-5	416-3
3.60	635-3	460-3	100-2	363-5	804-3	382-3	971-3	302-5	668-3	346-3	922-3	278-5	604-3	294-3	854-3	251-5	514-3	235-3	759-3	242-5	410-3
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4.20	530-3	442-3	108-2	256-5	662-3	410-3	105-2	238-5	614-3	367-3	100-2	218-5	550-3	308-3	945-3	199-5	462-3	273-3	845-3	204-5	408-3
4.40	410-3	468-3	108-2	247-5	669-3	435-3	105-2	230-5	622-3	392-3	101-2	211-5	559-3	330-3	955-3	194-5	472-3	285-3	859-3	193-5	407-3
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6.50	391-3	623-3	101-2	151-5	603-3	522-3	987-3	126-5	505-3	464-3	946-3	114-5	449-3	414-3	885-3	117-5	400-3	373-3	815-3	129-5	361-3
7.00	650-3	728-3	101-2	152-5	654-3	587-3	985-3	123-5	527-3	527-3	949-3	112-5	473-3	446-3	895-3	108-5	400-3	393-3	806-3	119-5	352-3
7.50	107-2	127-2	107-2	232-5	107-2	888-3	968-3	161-5	744-3	580-3	938-3	106-5	486-3	473-3	892-3	100-5	397-3	420-3	812-3	111-5	352-3
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8.50	201-3	880-3	922-3	124-5	650-3	724-3	910-3	102-5	535-3	652-3	891-3	952-6	482-3	551-3	861-3	874-6	407-3	466-3	803-3	977-6	344-3
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9.50	736-3	111-2	847-3	126-5	735-3	805-3	841-3	913-6	532-3	714-3	831-3	835-6	472-3	605-3	814-3	763-6	400-3	524-3	777-3	874-6	347-3
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11.00	153-3	101-2	770-3	856-6	578-3	894-3	742-3	759-6	510-3	760-3	742-3	651-6	434-3	669-3	739-3	662-6	382-3	598-3	727-3	747-6	341-3
12.00	637-3	134-2	805-3	953-6	702-3	109-2	777-3	777-6	571-3	833-3	738-3	605-6	436-3	707-3	710-3	601-6	370-3	637-3	692-3	677-6	333-3
13.00	985-3	203-2	985-3	123-5	985-3	157-2	787-3	956-6	763-3	118-2	752-3	718-6	570-3	844-3	716-3	546-6	408-3	670-3	690-3	618-6	323-3
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15.00	902-3	215-2	994-3	979-6	902-3	177-2	852-3	806-6	743-3	136-2	739-3	625-6	573-3	963-3	727-3	455-6	403-3	723-3	703-3	523-6	302-3

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
1111A014 57.003.0 SAN FRANCISCO ALEXANDER BLDG BASEMENT COMP N09W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

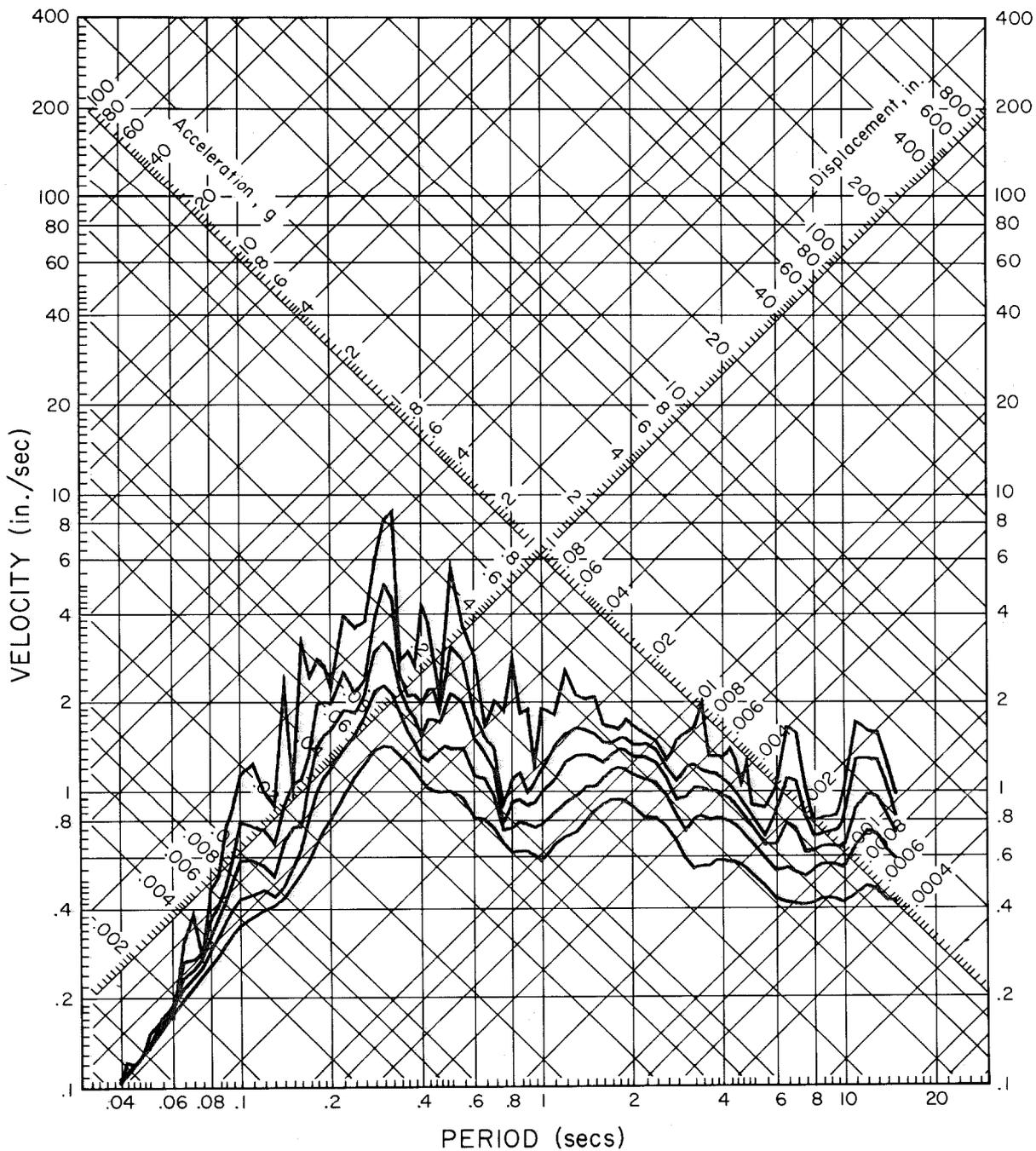


RESPONSE SPECTRUM

SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST

IIIA014 57.003.0 SAN FRANCISCO ALEXANDER BLDG BASEMENT COMP N09W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
IIIA014 57-003.0 SAN FRANCISCO ALEXANDER BLDG BASEMENT COMP N09M

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

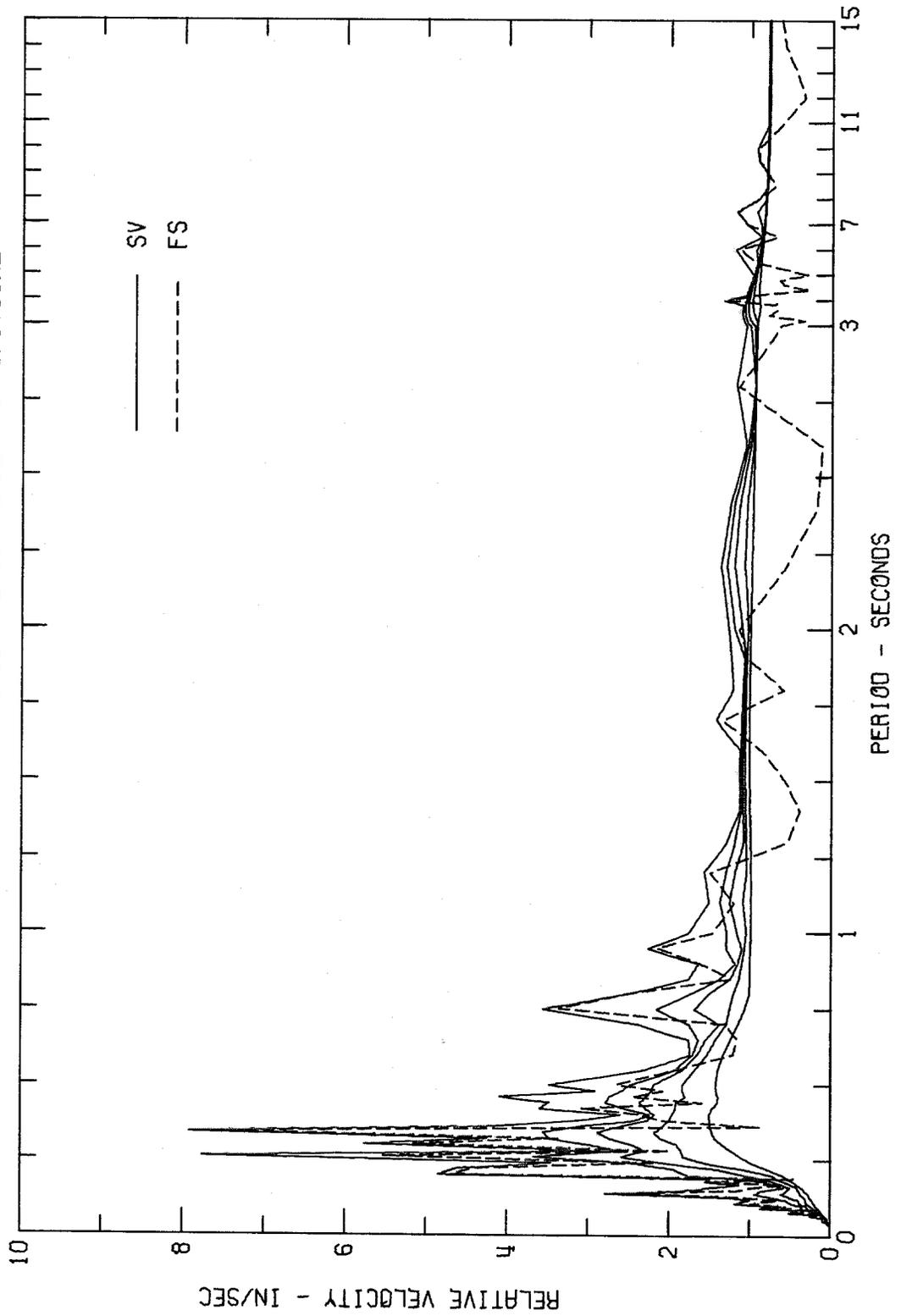
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0.048	187-4	102-5	435-4	454-4	133-3	102-5	407-4	453-4	133-3	101-5	404-4	450-4	132-3	101-5	390-4	451-4	132-3	100-5	365-4	450-4	131-3	100-5	365-4	450-4	131-3
0.050	232-4	122-5	593-4	499-4	153-3	108-5	460-4	443-4	136-3	111-5	455-4	454-4	139-3	111-5	434-4	458-4	140-3	109-5	401-4	456-4	137-3	109-5	401-4	456-4	137-3
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0.095	696-3	137-4	860-3	155-3	910-3	924-5	468-3	127-3	787-3	936-5	450-3	952-4	588-3	696-5	332-3	704-4	437-3	565-5	240-3	593-4	355-3	565-5	240-3	593-4	355-3
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IIIA014 57.003.0 SAN FRANCISCO ALEXANDER BLDG BASEMENT COMP N09M

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT					DAMPING = 2 PERCENT					DAMPING = 5 PERCENT					DAMPING = 10 PERCENT					DAMPING = 20 PERCENT											
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0.75	180-2	224-3	190-2	408-4	188-2	110-3	155-2	200-4	926-3	954-4	138-2	174-4	799-3	908-4	123-2	174-4	761-3	811-4	114-2	180-4	679-3											
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1.30	197-2	446-3	236-2	270-4	215-2	341-3	173-2	207-4	165-2	277-3	164-2	168-4	133-2	202-3	152-2	128-4	105-2	180-3	131-2	104-4	811-3											
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1.60	169-2	438-3	216-2	175-4	172-2	377-3	195-2	151-4	148-2	324-3	170-2	130-4	127-2	289-3	139-2	120-4	113-2	235-3	119-2	107-4	924-3											
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2.20	120-2	556-3	176-2	117-4	158-2	516-3	167-2	109-4	147-2	463-3	154-2	998-5	132-2	391-3	137-2	887-5	111-2	291-3	113-2	786-5	833-3											
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3.20	148-2	859-3	168-2	858-5	168-2	636-3	162-2	636-5	125-2	536-3	154-2	540-5	105-2	422-3	142-2	433-5	830-3	285-3	123-2	445-5	560-3											
3.40	197-2	109-2	197-2	970-5	202-2	650-3	157-2	577-5	120-2	565-3	150-2	507-5	104-2	453-3	141-2	421-5	838-3	310-3	124-2	386-5	570-3											
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3.80	134-2	811-3	146-2	574-5	134-2	706-3	144-2	501-5	116-2	620-3	140-2	447-5	102-2	509-3	134-2	377-5	841-3	360-3	124-2	332-5	596-3											
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4.60	784-3	802-3	121-2	387-5	109-2	695-3	121-2	336-5	949-3	634-3	121-2	311-5	866-3	551-3	120-2	285-5	753-3	422-3	117-2	273-5	577-3											
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5.50	901-3	788-3	108-2	266-5	900-3	637-3	109-2	215-5	728-3	593-3	110-2	204-5	677-3	545-3	111-2	237-5	685-3	427-3	114-2	244-5	537-3											
6.00	440-3	101-2	111-2	289-5	106-2	837-3	106-2	238-5	877-3	651-3	107-2	186-5	682-3	528-3	108-2	157-5	552-3	424-3	109-2	195-5	444-3											
6.50	166-2	172-2	166-2	416-5	166-2	116-2	109-2	283-5	113-2	827-3	106-2	201-5	800-3	588-3	107-2	145-5	559-3	447-3	108-2	178-5	432-3											
7.00	161-2	179-2	160-2	374-5	160-2	122-2	113-2	256-5	110-2	852-3	106-2	179-5	765-3	607-3	106-2	131-5	545-3	474-3	107-2	165-5	426-3											
7.50	540-3	127-2	105-2	231-5	108-2	101-2	106-2	185-5	852-3	769-3	106-2	140-5	644-3	635-3	107-2	120-5	532-3	504-3	107-2	155-5	426-3											
8.00	588-3	103-2	107-2	165-5	812-3	922-3	107-2	147-5	724-3	827-3	107-2	134-5	649-3	716-3	107-2	121-5	562-3	547-3	107-2	147-5	430-3											
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9.50	341-3	129-2	111-2	146-5	853-3	114-2	110-2	129-5	757-3	105-2	110-2	116-5	667-3	874-3	110-2	105-5	578-3	669-3	109-2	127-5	442-3											
10.00	101-2	160-2	112-2	164-5	101-2	132-2	112-2	135-5	829-3	100-2	111-2	109-5	661-3	903-3	111-2	970-6	567-3	690-3	110-2	121-5	433-3											
11.00	174-2	304-2	173-2	257-5	173-2	228-2	134-2	193-5	130-2	156-2	114-2	133-5	895-3	118-2	113-2	101-5	674-3	807-3	112-2	112-5	461-3											
12.00	165-2	316-2	183-2	224-5	165-2	255-2	146-2	181-5	133-2	192-2	116-2	138-5	100-2	144-2	115-2	106-5	758-3	942-3	113-2	103-5	493-3											
13.00	129-2	333-2	160-2	202-5	161-2	270-2	130-2	163-5	130-2	202-2	117-2	124-5	976-3	151-2	116-2	958-6	733-3	986-3	115-2	963-6	470-3											
14.00	106-2	285-2	138-2	149-5	128-2	240-2	121-2	125-5	107-2	190-2	119-2																					

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
111A014 57.003.0 SAN FRANCISCO ALEXANDER BLDG BASEMENT COMP N81E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

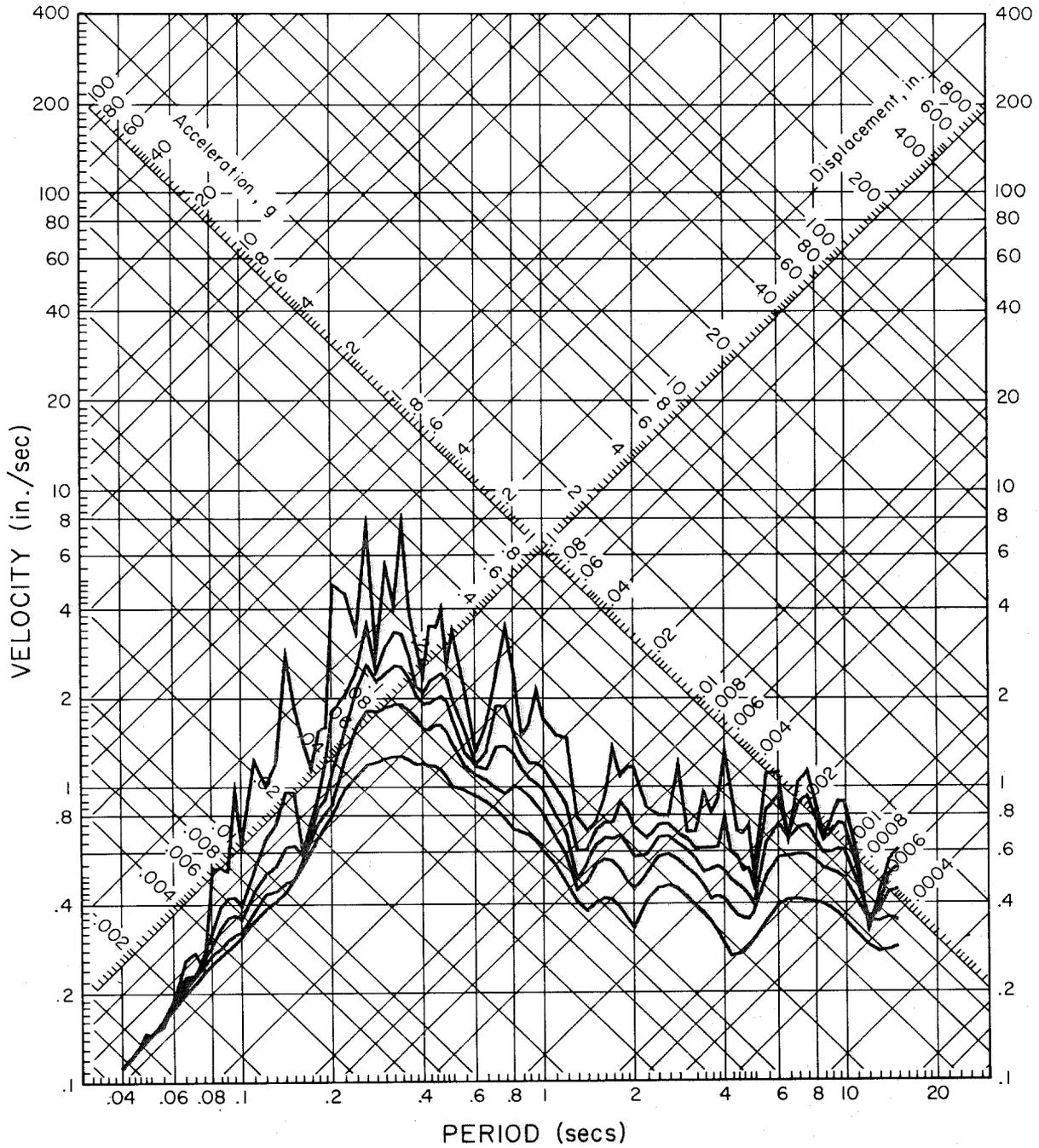


RESPONSE SPECTRUM

SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST

IIIA014 57.003.0 SAN FRANCISCO ALEXANDER BLDG BASEMENT COMP N81E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
I11A014 57.003.0 SAN FRANCISCO ALEXANDER BLDG BASEMENT COMP N81E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

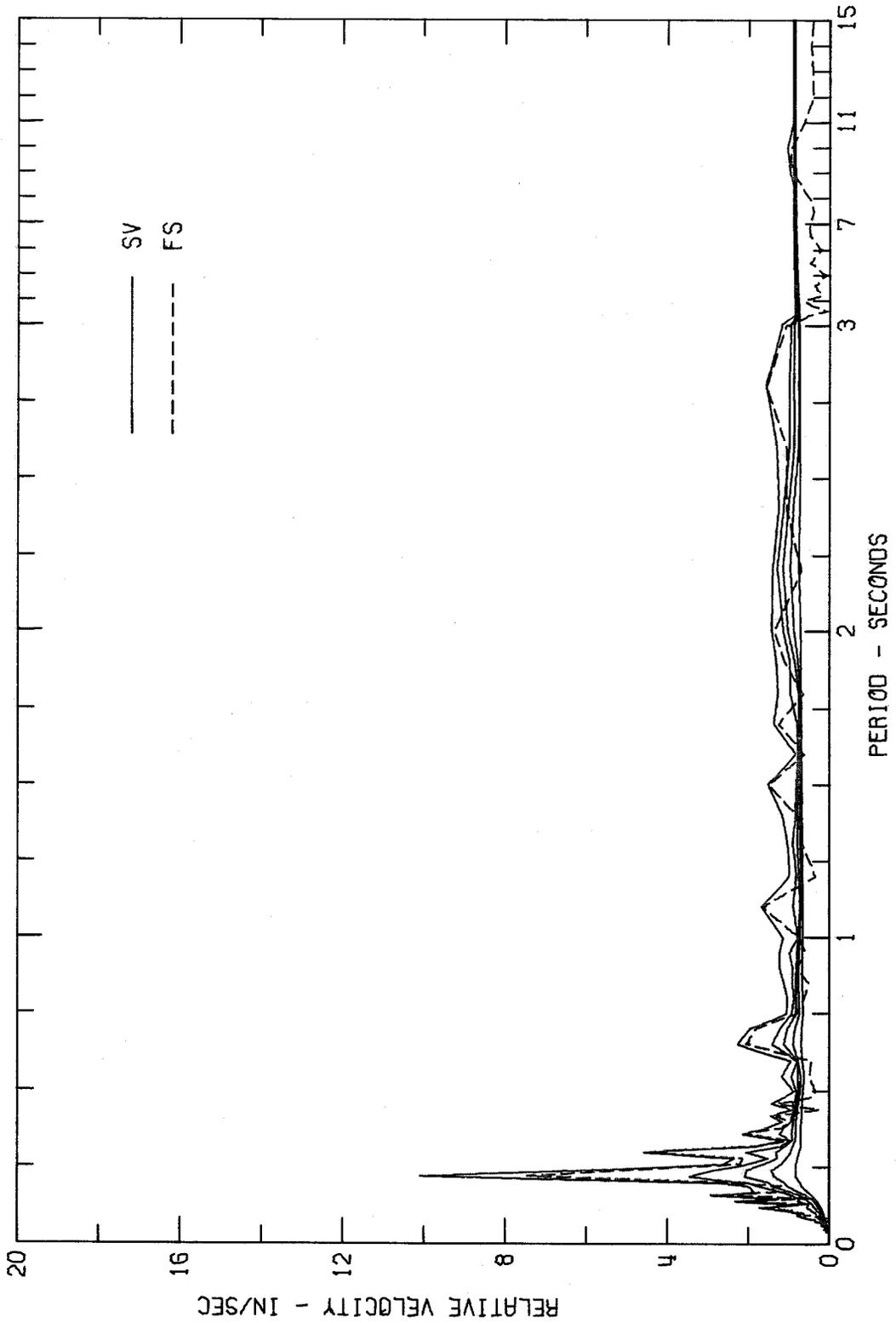
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0.042	525-5	818-6	224-4	474-4	122-3	810-6	213-4	470-4	121-3	811-6	214-4	470-4	121-3	811-6	207-4	470-4	121-3	808-6	192-4	472-4	120-3
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0.046	382-5	100-5	277-4	487-4	137-3	993-6	277-4	482-4	136-3	995-6	275-4	480-4	135-3	989-6	263-4	478-4	135-3	980-6	244-4	477-4	133-3
0.048	101-4	114-5	366-4	507-4	149-3	110-5	339-4	491-4	144-3	109-5	317-4	485-4	143-3	108-5	294-4	482-4	141-3	107-5	272-4	480-4	140-3
0.050	222-4	116-5	431-4	476-4	146-3	118-5	372-4	484-4	148-3	118-5	352-4	484-4	148-3	118-5	327-4	483-4	148-3	117-5	303-4	482-4	147-3
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0.060	371-4	187-5	995-4	533-4	156-3	190-5	580-4	541-4	199-3	184-5	556-4	526-4	193-3	180-5	519-4	511-4	189-3	175-5	489-4	503-4	183-3
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IIIA014 57.003.0 SAN FRANCISCO ALEXANDER BLDG BASEMENT COMP N81E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT				DAMPING = 2 PERCENT				DAMPING = 5 PERCENT				DAMPING = 10 PERCENT				DAMPING = 20 PERCENT							
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA
0.75	336-2	426-3	356-2	775-4	357-2	227-3	215-2	414-4	190-2	167-3	168-2	305-4	140-2	115-3	124-2	213-4	963-3	943-4	106-2	204-4	790-3			
0.80	249-2	317-3	250-2	507-4	249-2	200-3	173-2	319-4	157-2	168-3	150-2	271-4	132-2	131-3	120-2	216-4	103-2	930-4	100-2	181-4	731-3			
0.85	122-2	208-3	174-2	295-4	154-2	181-3	136-2	257-4	134-2	158-3	124-2	227-4	117-2	134-3	113-2	197-4	994-3	968-4	999-3	160-4	715-3			
0.90	162-2	242-3	164-2	306-4	169-2	176-3	118-2	223-4	123-2	155-3	114-2	197-4	108-2	134-3	110-2	176-4	940-3	999-4	998-3	148-4	697-3			
0.95	214-2	330-3	225-2	375-4	218-2	186-3	129-2	211-4	123-2	158-3	109-2	180-4	104-2	133-3	107-2	158-4	884-3	100-3	994-3	136-4	666-3			
1.00	146-2	278-3	175-2	284-4	174-2	189-3	129-2	192-4	118-2	158-3	116-2	163-4	997-3	131-3	104-2	139-4	826-3	989-4	989-3	122-4	621-3			
1.10	119-2	268-3	150-2	226-4	153-2	178-3	137-2	150-4	101-2	144-3	125-2	122-4	827-3	121-3	109-2	108-4	693-3	972-4	987-3	102-4	555-3			
1.20	149-2	284-3	157-2	202-4	149-2	167-3	129-2	119-4	876-3	134-3	118-2	967-5	704-3	113-3	104-2	858-5	594-3	914-4	993-3	885-5	478-3			
1.30	539-3	165-3	128-2	100-4	799-3	129-3	118-2	784-5	625-3	104-3	108-2	637-5	503-3	958-4	105-2	658-5	463-3	866-4	100-2	780-5	418-3			
1.40	388-3	161-3	113-2	841-5	723-3	140-3	111-2	732-5	630-3	126-3	109-2	664-5	568-3	110-3	106-2	589-5	493-3	871-4	100-2	690-5	391-3			
1.50	573-3	188-3	113-2	857-5	790-3	174-3	112-2	792-5	740-3	156-3	109-2	719-5	655-3	132-3	106-2	626-5	555-3	100-3	101-2	611-5	420-3			
1.60	860-3	239-3	112-2	957-5	941-3	195-3	111-2	786-5	772-3	175-3	109-2	712-5	689-3	147-3	106-2	623-5	579-3	109-3	101-2	543-5	430-3			
1.70	134-2	376-3	141-2	133-4	139-2	209-3	110-2	740-5	773-3	183-3	108-2	660-5	678-3	154-3	106-2	584-5	570-3	114-3	101-2	509-5	424-3			
1.80	587-3	322-3	121-2	101-4	112-2	260-3	108-2	823-5	908-3	202-3	107-2	644-5	705-3	154-3	105-2	527-5	538-3	114-3	101-2	478-5	401-3			
1.90	102-2	366-3	123-2	103-4	121-2	258-3	107-2	725-5	846-3	196-3	106-2	564-5	648-3	148-3	104-2	459-5	489-3	111-3	100-2	447-5	370-3			
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2.60	117-3	336-3	105-2	508-5	812-3	315-3	103-2	478-5	762-3	288-3	100-2	447-5	657-3	250-3	965-3	422-5	605-3	197-3	957-3	413-5	464-3			
2.80	115-2	546-3	118-2	713-5	122-2	318-3	945-3	416-5	713-3	293-3	947-3	391-5	657-3	258-3	947-3	379-5	579-3	206-3	943-3	387-5	464-3			
3.00	624-3	346-3	105-2	394-5	726-3	326-3	101-2	372-5	683-3	298-3	960-3	345-5	626-3	259-3	931-3	330-5	544-3	208-3	930-3	354-5	436-3			
3.20	339-3	366-3	109-2	366-5	720-3	321-3	106-2	322-5	631-3	297-3	100-2	304-5	584-3	262-3	936-3	282-5	515-3	208-3	919-3	321-5	409-3			
3.40	783-3	530-3	111-2	469-5	980-3	347-3	108-2	308-5	643-3	286-3	103-2	262-5	530-3	257-3	966-3	246-5	476-3	209-3	909-3	288-5	387-3			
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4.00	129-2	870-3	134-2	556-5	136-2	520-3	106-2	332-5	816-3	337-3	103-2	219-5	530-3	272-3	987-3	185-5	428-3	904-3	208-5	277-3	332-3			
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4.40	281-3	505-3	104-2	267-5	721-3	418-3	102-2	221-5	597-3	336-3	100-2	179-5	480-3	266-3	972-3	146-5	380-3	196-3	907-3	170-5	280-3			
4.60	603-3	526-3	101-2	254-5	719-3	391-3	100-2	189-5	534-3	339-3	990-3	165-5	464-3	271-3	961-3	138-5	371-3	207-3	905-3	155-5	283-3			
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6.00	113-2	111-2	119-2	117-5	117-2	917-3	946-3	260-5	960-3	738-3	892-3	211-5	773-3	567-3	886-3	163-5	593-3	391-3	868-3	118-5	410-3			
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7.00	106-2	118-2	105-2	247-5	106-2	991-3	884-3	207-5	890-3	840-3	849-3	176-5	754-3	680-3	849-3	145-5	611-3	481-3	842-3	110-5	431-3			
7.50	118-2	140-2	118-2	256-5	118-2	114-2	935-3	208-5	959-3	915-3	833-3	167-5	766-3	724-3	834-3	133-5	606-3	507-3	831-3	101-5	425-3			
8.00	910-3	115-2	910-3	185-5	910-3	102-2	819-3	164-5	808-3	869-3	821-3	139-5	682-3	736-3	823-3	120-5	578-3	536-3	822-3	912-6	421-3			
8.50	706-3	957-3	806-3	135-5	707-3	924-3	808-3	131-5	683-3	831-3	811-3	118-5	614-3	741-3	813-3	108-5	548-3	560-3	814-3	860-6	414-3			
9.00	799-3	114-2	800-3	144-5	801-3	103-2	803-3	133-5	722-3	885-3	802-3	112-5	617-3	766-3	805-3	994-6	534-3	575-3	808-3	814-6	401-3			
9.50	914-3	138-2	916-3	157-5	916-3	117-2	800-3	133-5	778-3	962-3	795-3	109-5	636-3	790-3	799-3	919-6	523-3	582-3	803-3	754-6	385-3			
10.00	904-3	144-2	935-2	147-5	907-3	120-2	800-3	123-5	756-3	991-3	790-3	102-5	622-3	799-3	793-3	919-6	502-3	581-3	803-3	684-6	365-3			
11.00	603-3	106-2	777-3	897-6	606-3	956-3	780-3	809-6	546-3	857-3	782-3	730-6	489-3	741-3	787-3	643-6	423-3	576-3	796-3	541-6	329-3			
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13.00	445-3	929-3	773-3	562-6	449-3	848-3	775-3	513-6	410-3	817-3	778-3	499-6	394-3	749-3	782-3	455-6	362-3	594-3	790-3	417-6	287-3			
14.00	584-3	130-2	772-3	683-6	587-3	116-2	774-3	606-6	520-3	101-2	776-3	533-6	454-3	834-3	780-3	465-6	374-3	649-3	787-3	396-6	291-3			
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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
111A014 57.003.0 SAN FRANCISCO ALEXANDER BLDG BASEMENT COMP VERT
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

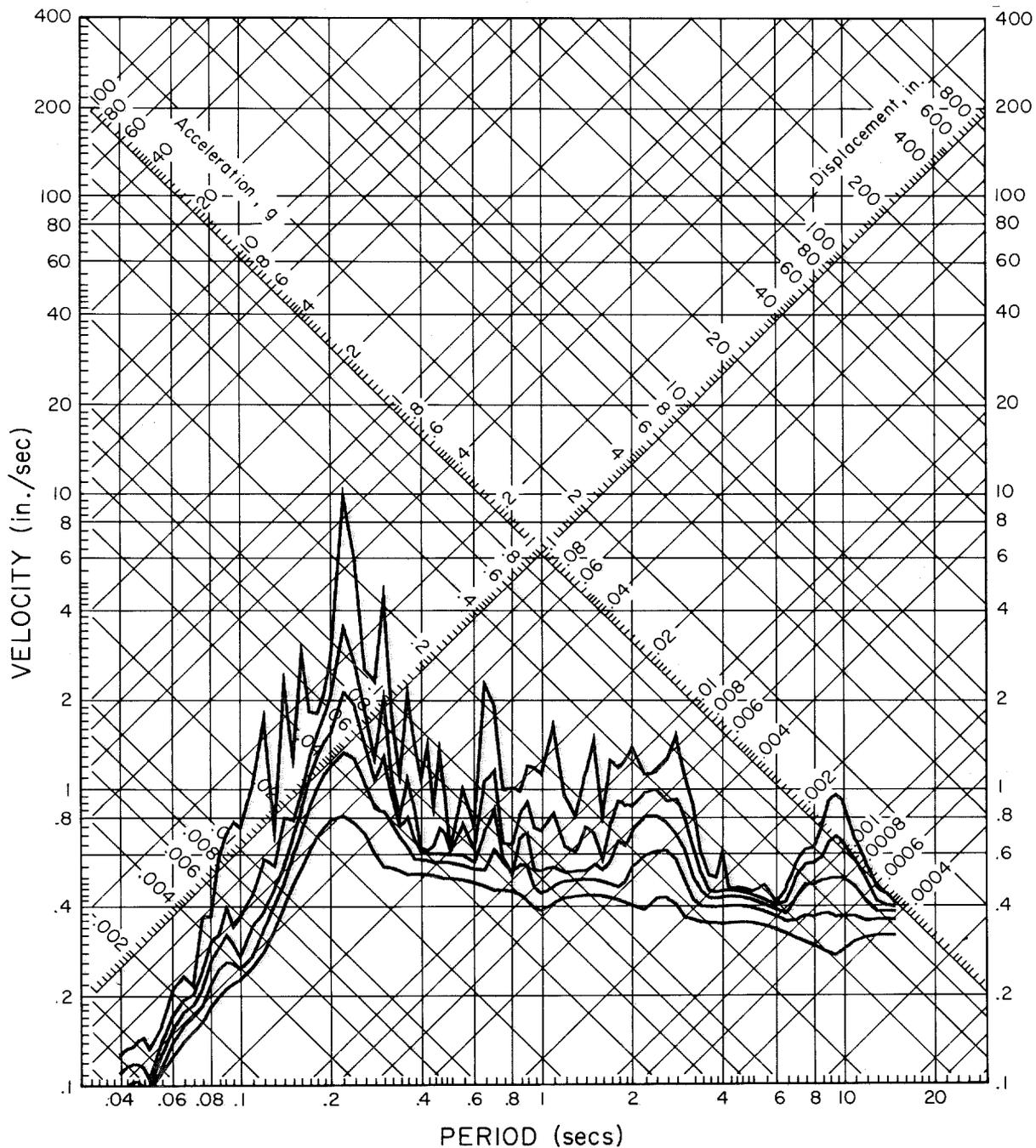


RESPONSE SPECTRUM

SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST

IIIA014 57.003.0 SAN FRANCISCO ALEXANDER BLDG BASEMENT COMP VERT

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST

IIIA014 57.003.0 SAN FRANCISCO ALEXANDER BLDG BASEMENT COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

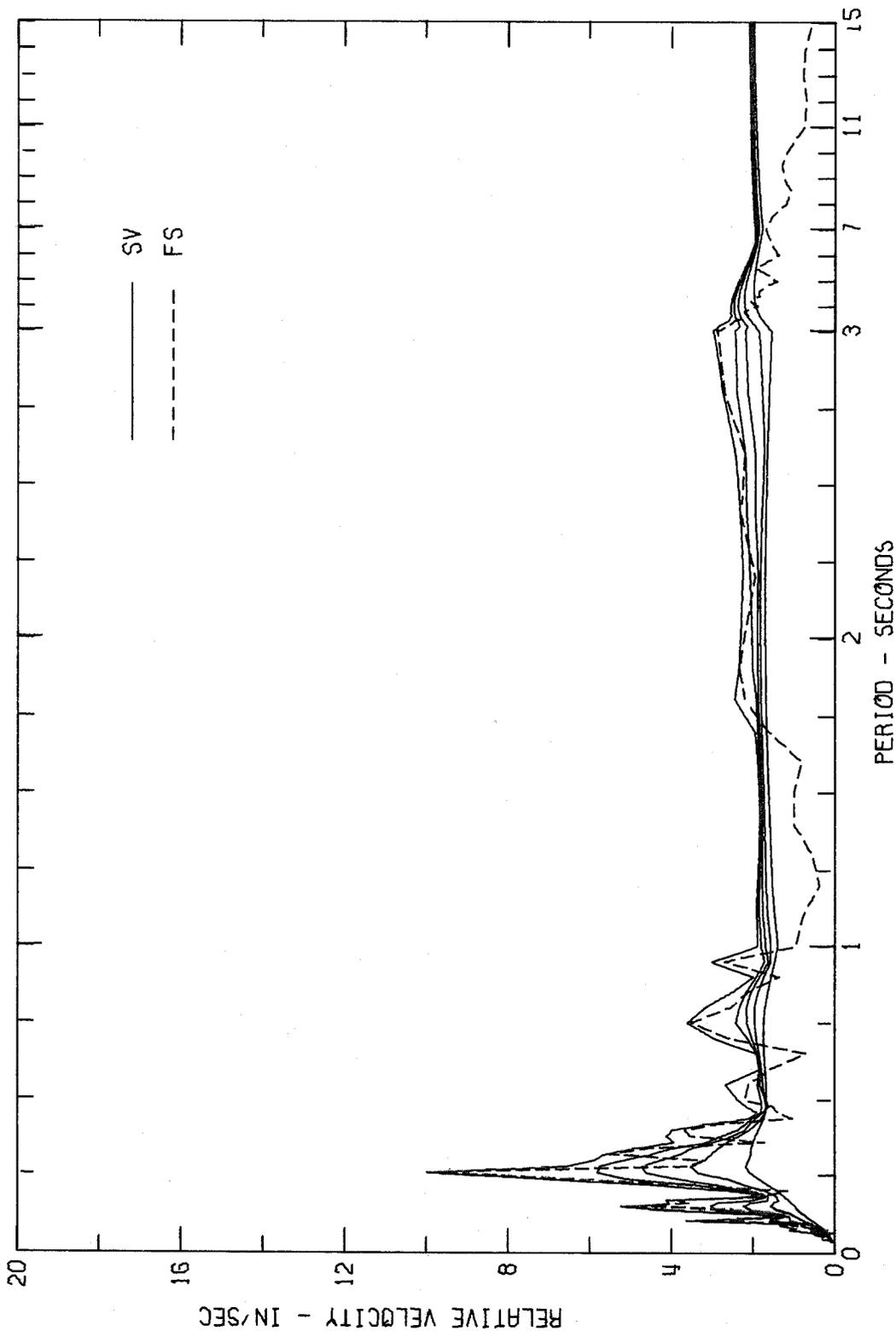
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IIIA014 57.003*0 SAN FRANCISCO ALEXANDER BLDG BASEMENT COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
111A015 57.006.0 SAN FRANCISCO GOLDEN GATE PARK COMP N10E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

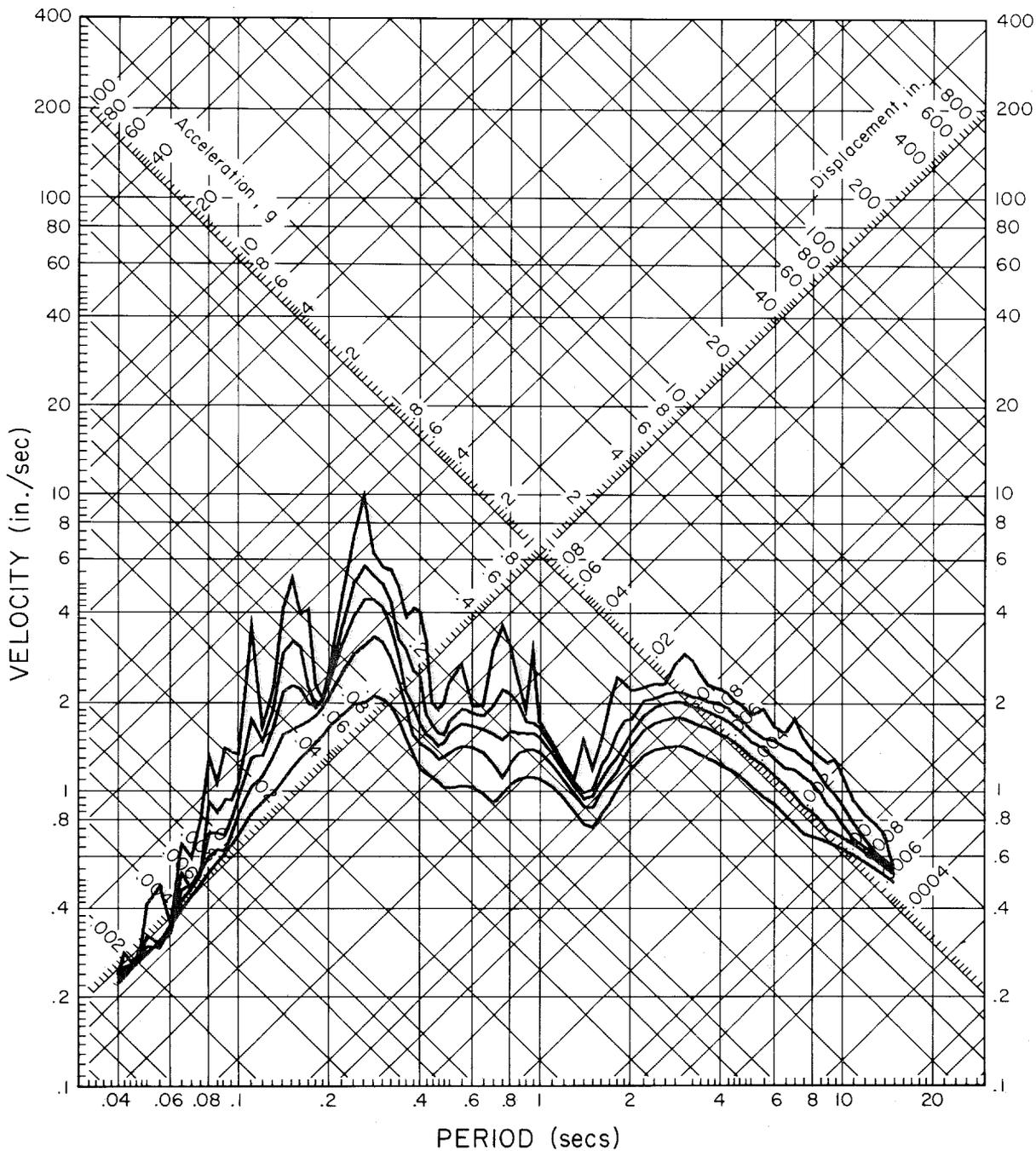


RESPONSE SPECTRUM

SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST

IIIA015 57.006.0 SAN FRANCISCO GOLDEN GATE PARK COMP N10E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST

IIIIA015 57.006.0 SAN FRANCISCO GOLDEN GATE PARK COMP N10E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

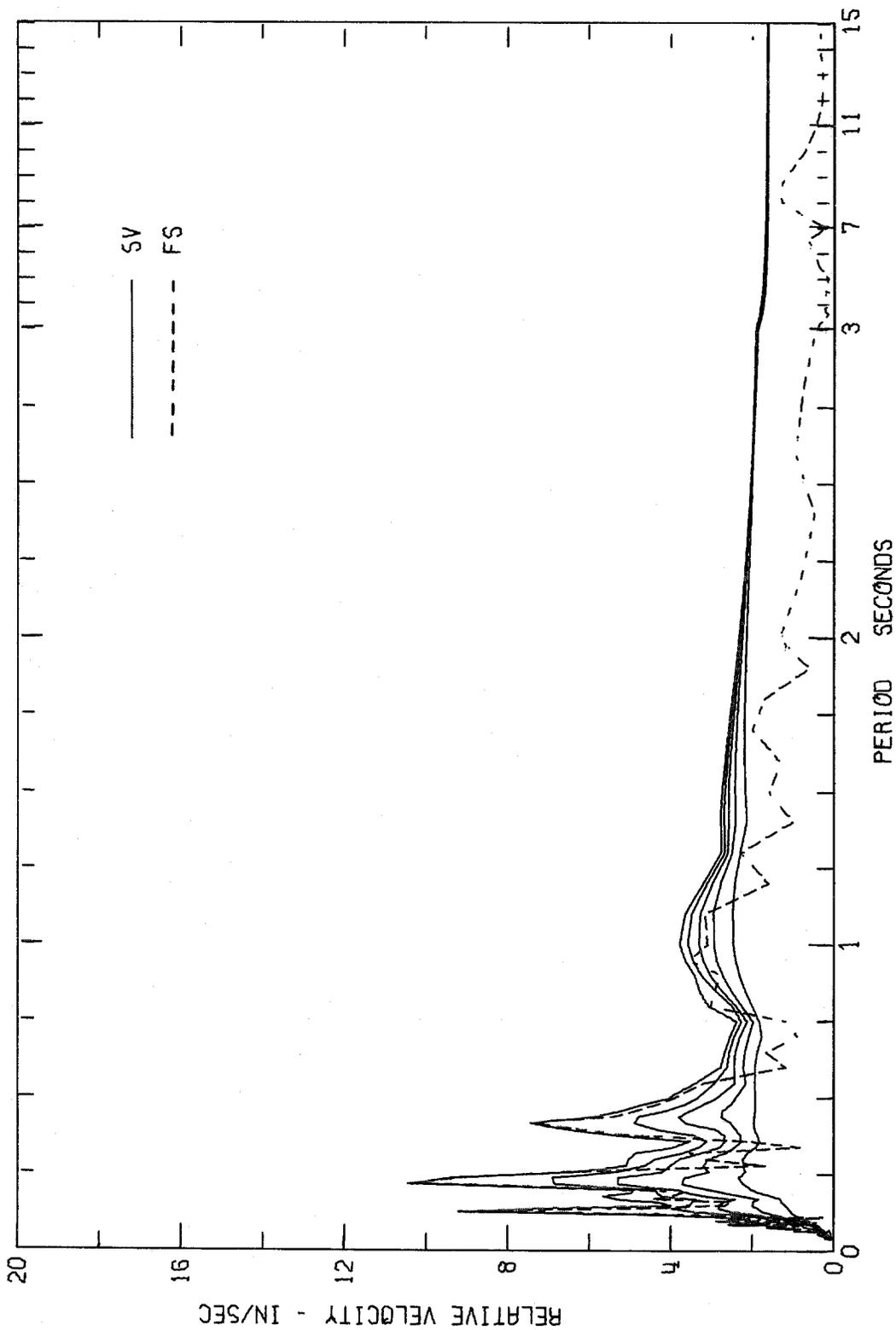
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IIIA015 57.006.0 SAN FRANCISCO GOLDEN GATE PARK COMP N10E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

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7.00	170-2	200-2	196-2	419-5	180-2	155-2	194-2	325-5	139-2	134-2	191-2	283-5	120-2	109-2	186-2	253-5	980-3	878-3	178-2	308-5	788-3					
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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
1111015 57.006.0 SAN FRANCISCO GOLDEN GATE PARK COMP S80E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

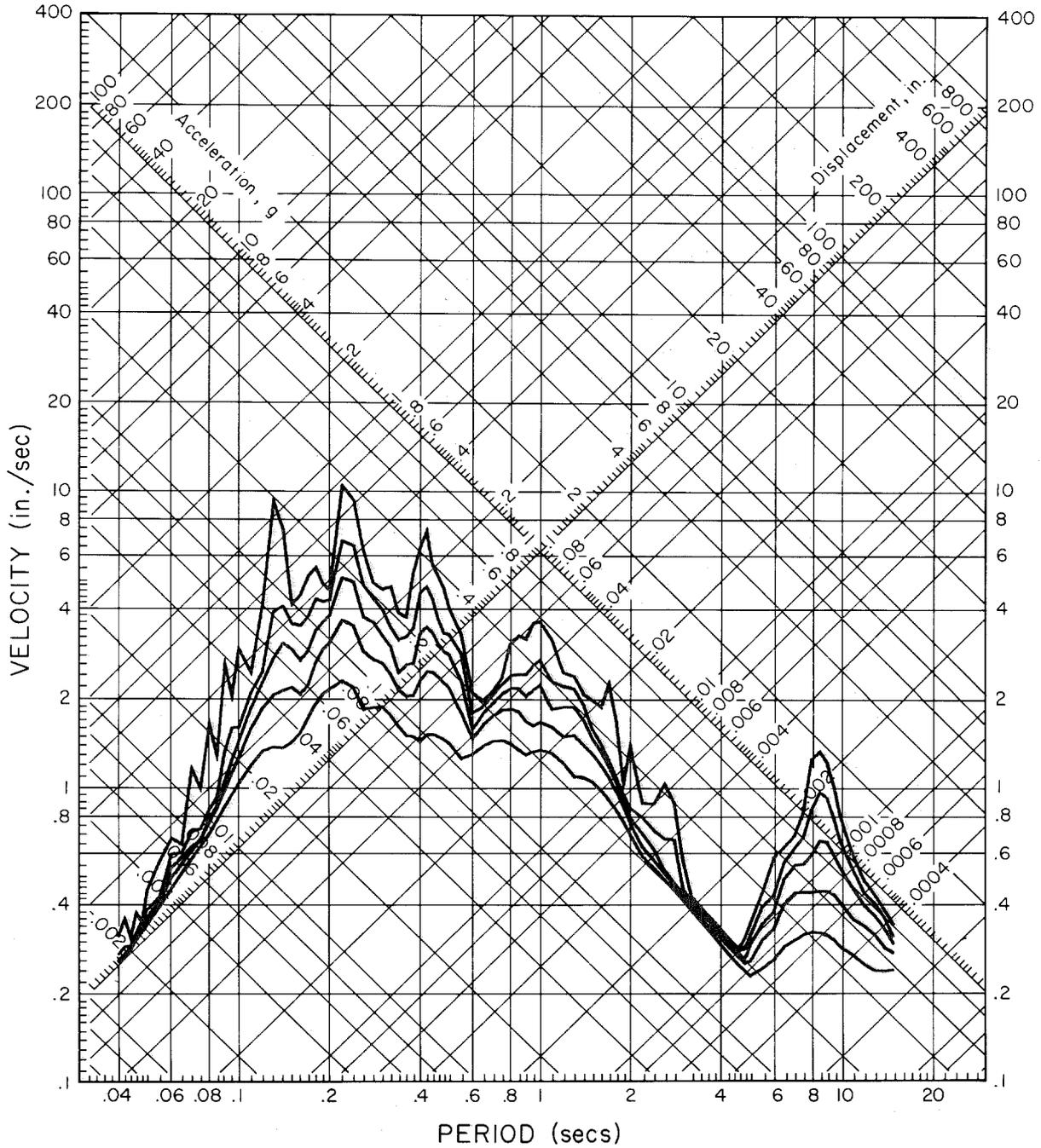


RESPONSE SPECTRUM

SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST

IIIA015 57.006.0 SAN FRANCISCO GOLDEN GATE PARK COMP S80E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
I111A015 57.006.0 SAN FRANCISCO GOLDEN GATE PARK COMP S80E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

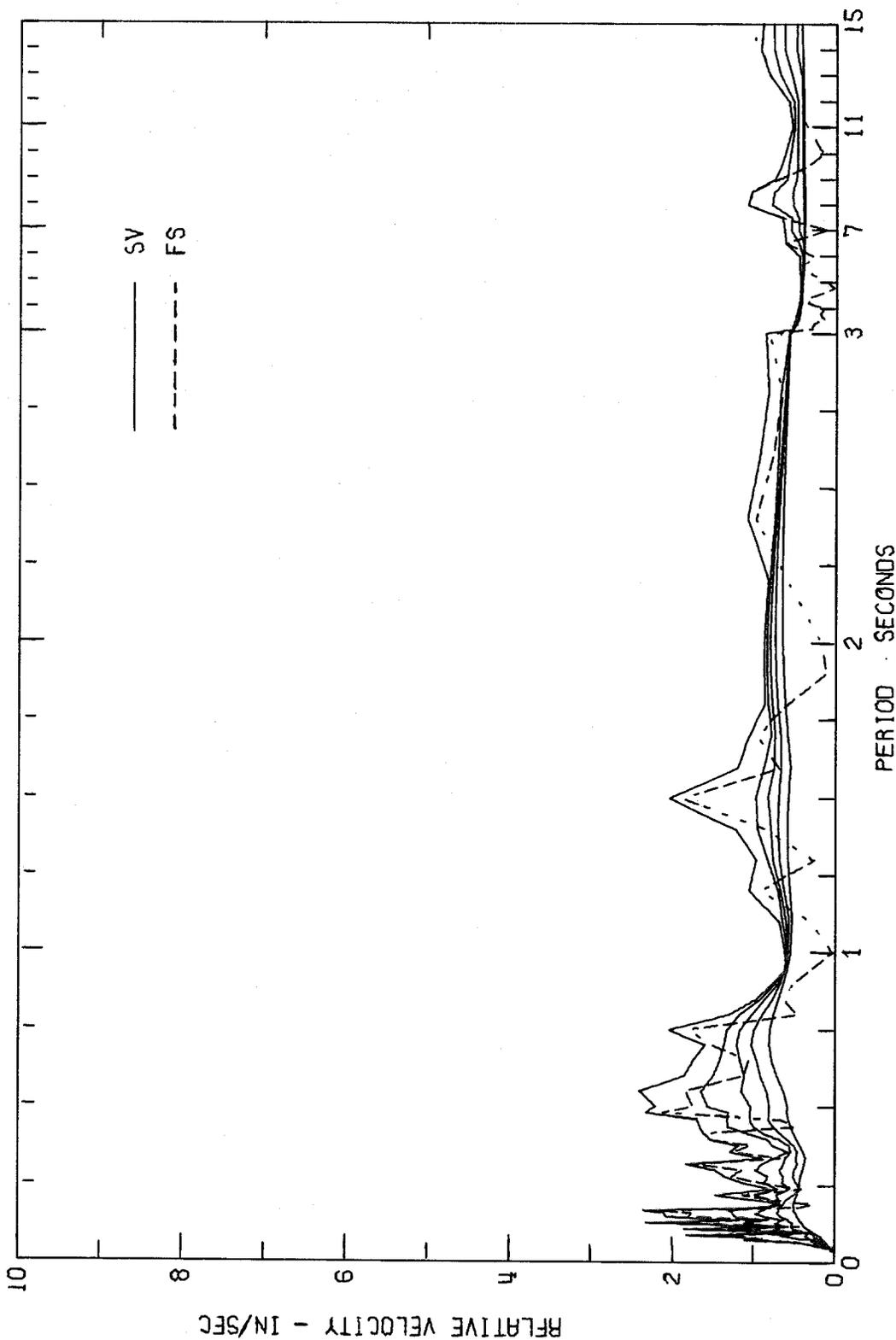
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0.042	164-3	241-5	166-3	140-3	361-3	193-5	106-3	112-3	289-3	179-5	973-4	104-3	268-3	179-5	850-4	103-3	268-3	182-5	751-4	106-3	273-3
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IIIA015 57.006.0 SAN FRANCISCO GOLDEN GATE PARK COMP S80E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 1144 PST
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

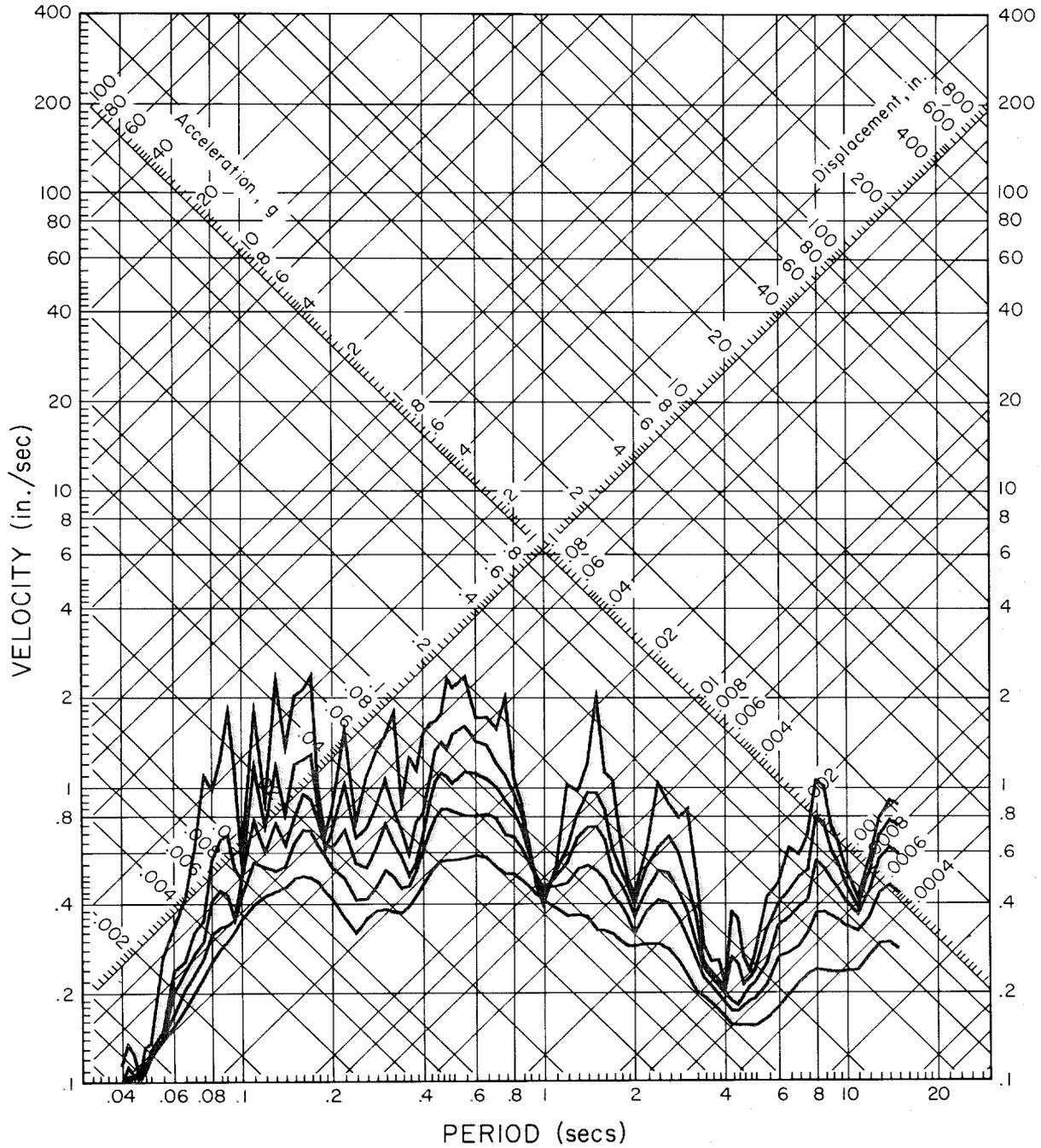


RESPONSE SPECTRUM

SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST

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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

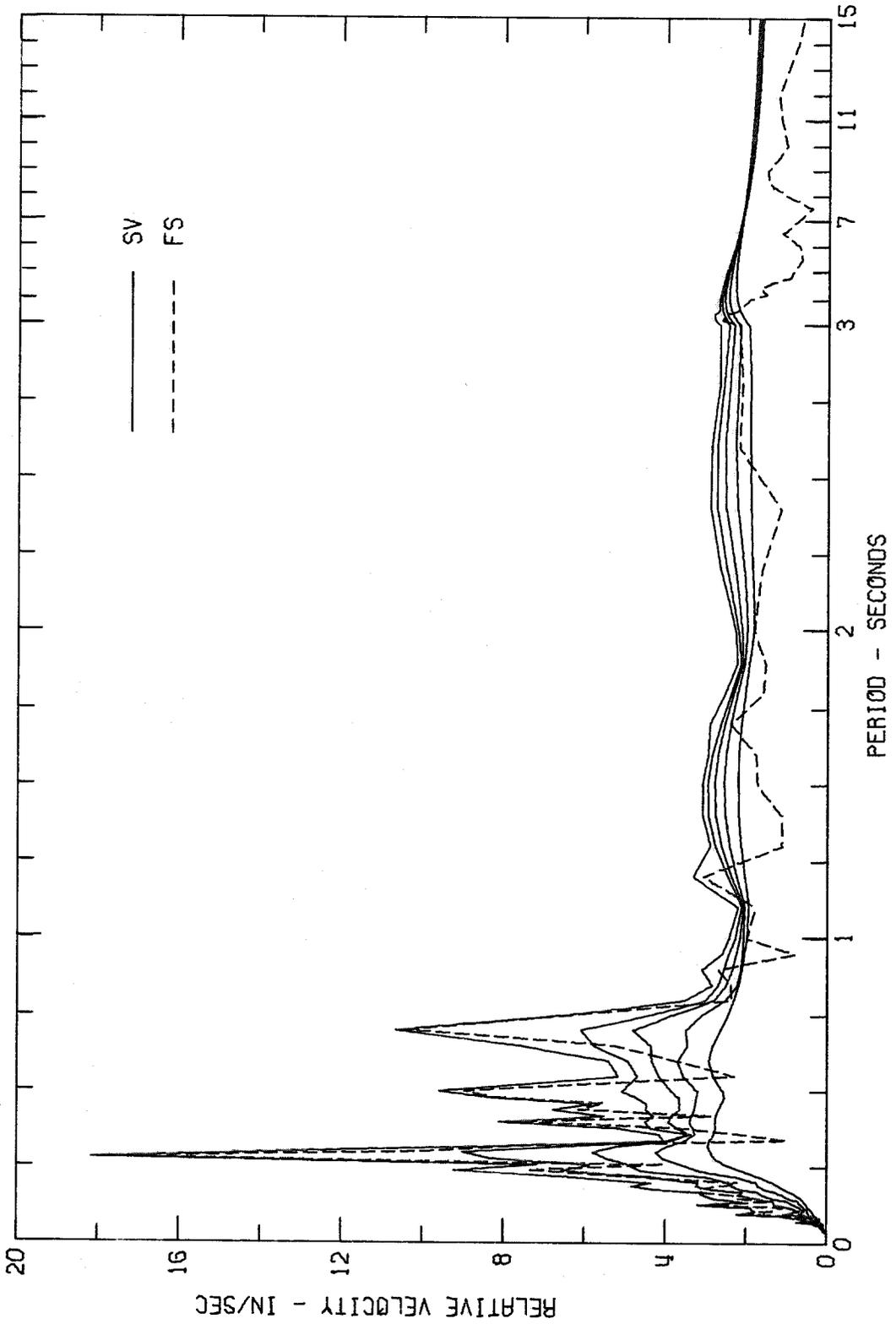
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0.480	211-2	180-3	232-2	799-4	235-2	103-3	130-2	460-4	135-2	843-4	104-2	374-4	110-2	659-4	811-3	300-4	862-3	438-4	587-3	212-4	862-3	438-4	587-3	212-4	862-3	438-4	587-3	212-4	
0.500	174-2	174-3																											

IITIA015 57.006.0 SAN FRANCISCO GOLDEN GATE PARK COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT				DAMPING = 2 PERCENT				DAMPING = 5 PERCENT				DAMPING = 10 PERCENT				DAMPING = 20 PERCENT			
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0.80	466-3	140-3	129-2	224-4	110-2	124-3	117-2	198-4	974-3	102-2	172-4	841-3	877-4	889-3	144-4	689-3	655-4	755-4	113-4	515-3
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0.95	280-3	709-4	593-3	804-5	469-3	745-4	603-3	845-5	493-3	765-4	607-3	877-5	506-3	754-4	612-3	888-5	499-3	666-4	584-3	883-5
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1.50	187-2	489-3	204-2	222-4	204-2	232-3	982-3	105-4	975-5	179-3	828-3	820-5	752-3	126-3	693-3	589-5	530-3	800-4	573-3	476-5
1.60	686-3	290-3	119-2	115-4	113-2	216-3	877-3	865-5	850-3	171-3	747-3	689-5	673-3	125-3	663-3	509-5	492-3	842-4	552-3	444-5
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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
111A016 57.007.0 SAN FRANCISCO STATE BLDG BASEMENT COMP S09E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

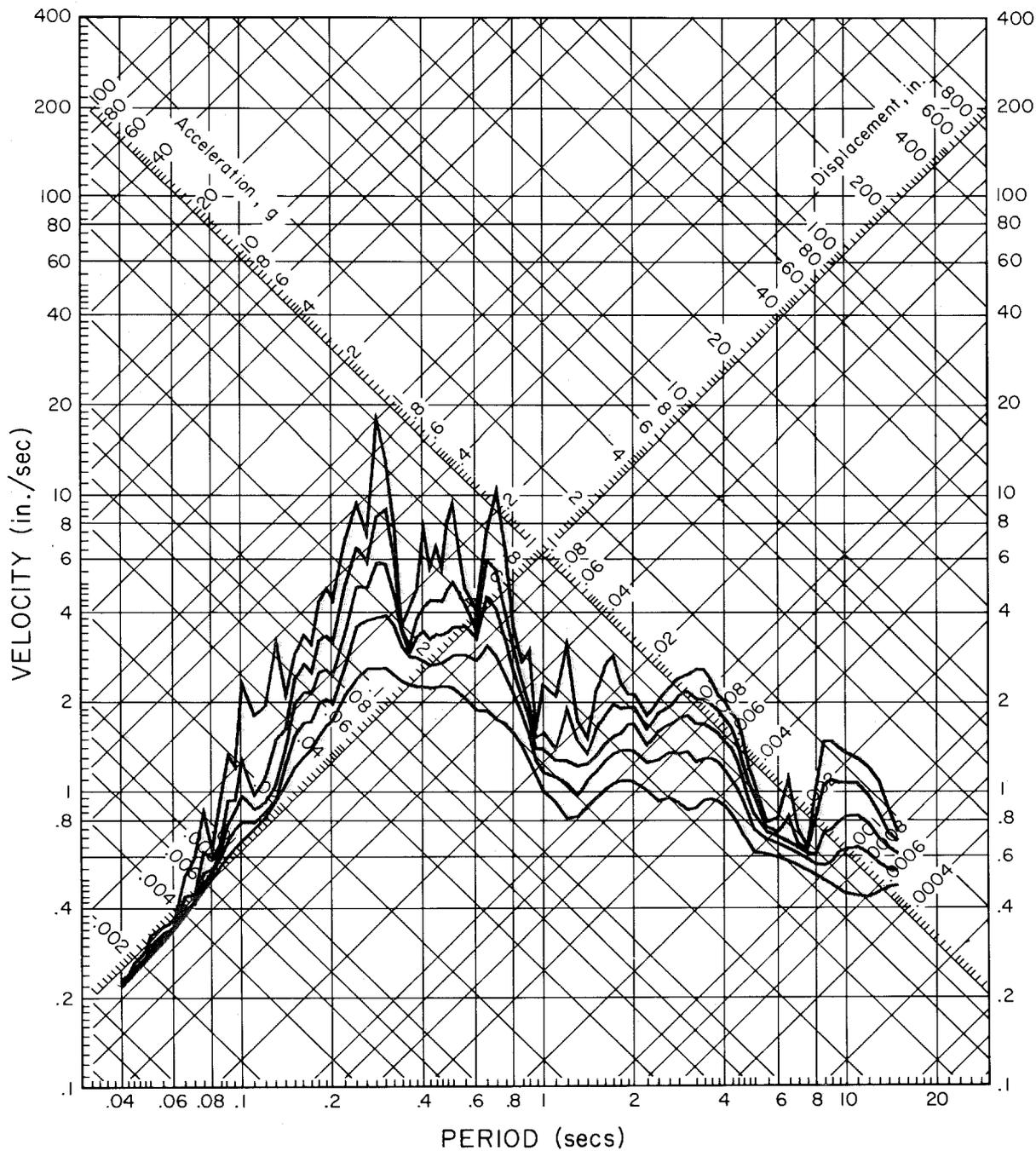


RESPONSE SPECTRUM

SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST

IIIA016 57.007.0 SAN FRANCISCO STATE BLDG BASEMENT COMP S09E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
IIIA016 57.007.0 SAN FRANCISCO STATE BLDG BASEMENT COMP S09E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

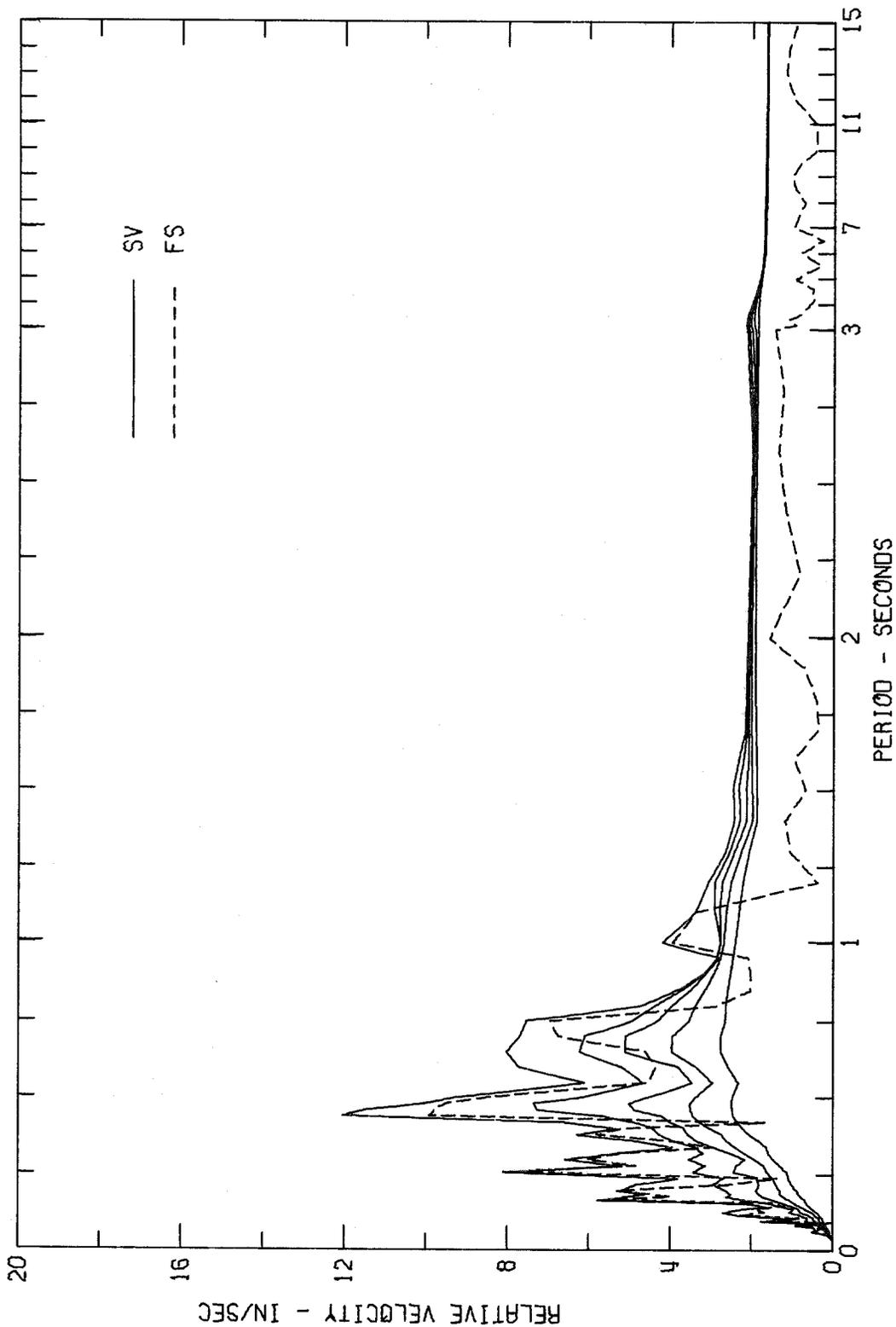
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0.042	224-4	162-5	533-4	942-4	243-3	163-5	406-4	949-4	245-3	162-5	403-4	941-4	243-3	160-5	394-4	931-4	240-3	157-5	397-4	916-4	235-3
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0.060	771-4	355-5	161-3	101-3	372-3	331-5	138-3	958-4	353-3	340-5	121-3	970-4	356-3	337-5	106-3	964-4	353-3	334-5	919-4	959-4	350-3
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0.550	227-2	429-3	514-2	145-3	491-2	379-3	467-2	128-3	433-2	321-3	415-2	109-3	367-2	257-3	354-2	902-4	293-2	183-3	281-2	734-4	210-2
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IIIA016 57.007.0 SAN FRANCISCO STATE BLDG BASEMENT COMP S09E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
111A016 57.007.0 SAN FRANCISCO STATE BLDG BASEMENT COMP S81W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

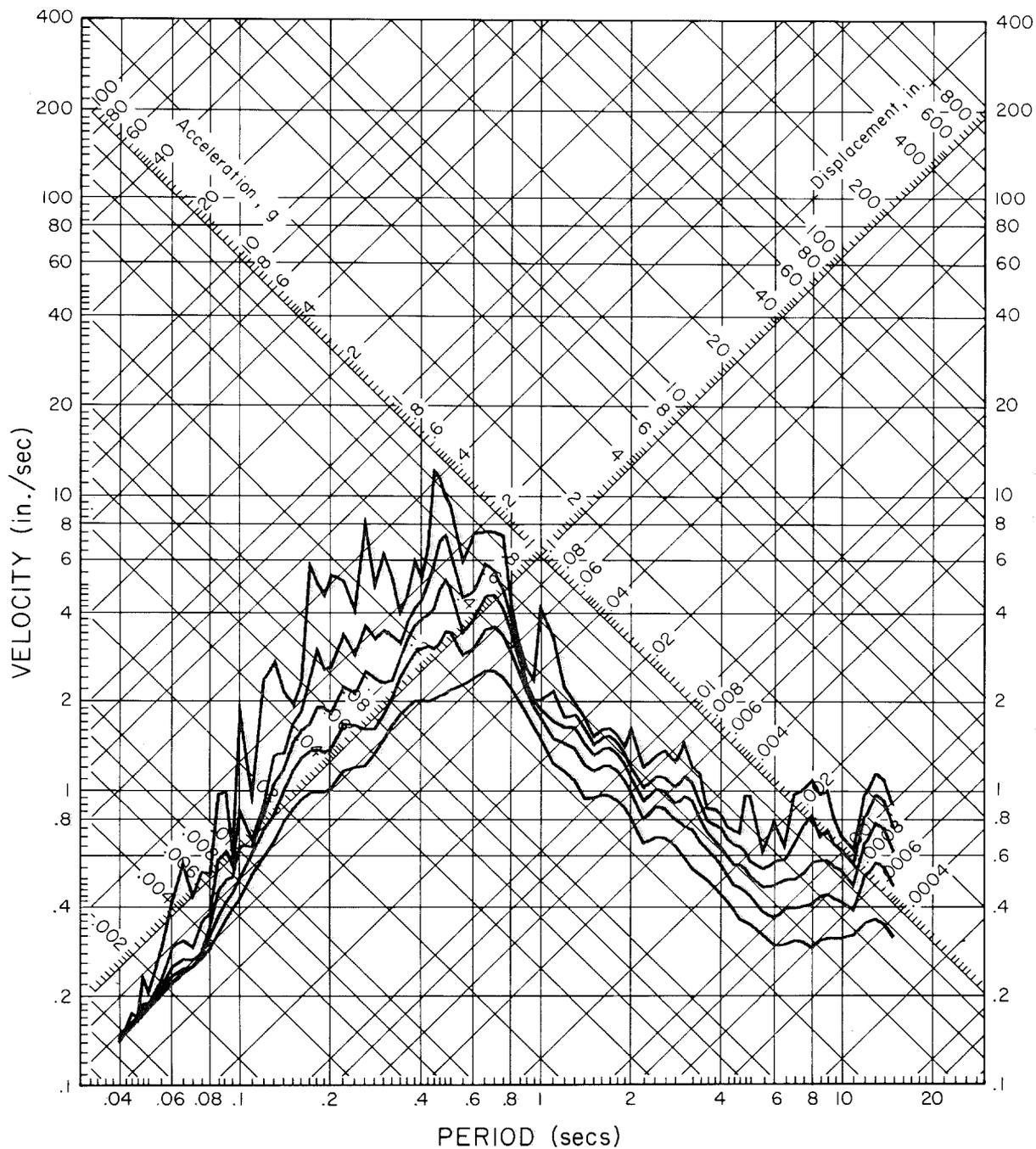


RESPONSE SPECTRUM

SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST

111A016 57.007.0 SAN FRANCISCO STATE BLDG BASEMENT COMP S81W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST

IIIIA016 57.007-0 SAN FRANCISCO STATE BLDG BASEMENT COMP S81W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

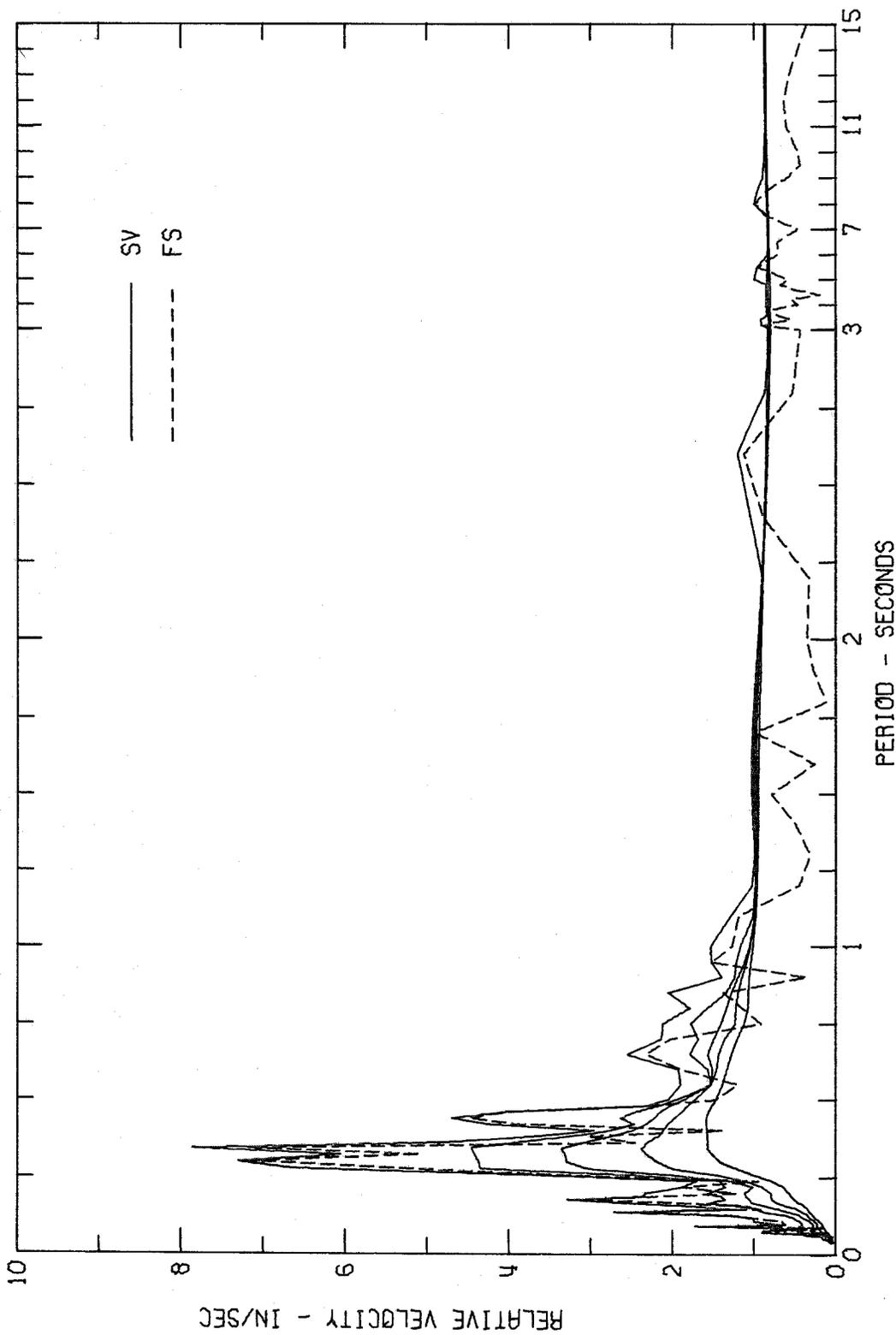
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0.220	249-2	181-3	481-2	383-3	518-2	118-3	295-2	248-3	338-2	783-4	180-2	168-3	168-3	223-2	582-4	139-2	123-3	166-2	412-4	101-2	909-4	117-2
0.240	136-2	157-3	379-2	279-3	411-2	111-3	267-2	196-3	291-2	816-4	181-2	145-3	213-2	641-4	148-2	112-3	168-2	463-4	108-2	879-4	121-2	
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0.440	992-2	850-3	120-1	449-3	121-1	415-3	565-2	220-3	593-2	295-3	422-2	155-3	421-2	213-3	345-2	115-3	304-2	144-3	246-2	814-4	206-2	
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IIIA016 57.007.0 SAN FRANCISCO STATE BLDG BASEMENT COMP S81W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

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14.00	110-2	246-2	162-2	128-5	110-2	209-2	162-2	109-5	941-3	169-2	163-2	887-6	759-3	125-2	163-2	666-6	562-3	807-3	164-2	707-6	362-3
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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

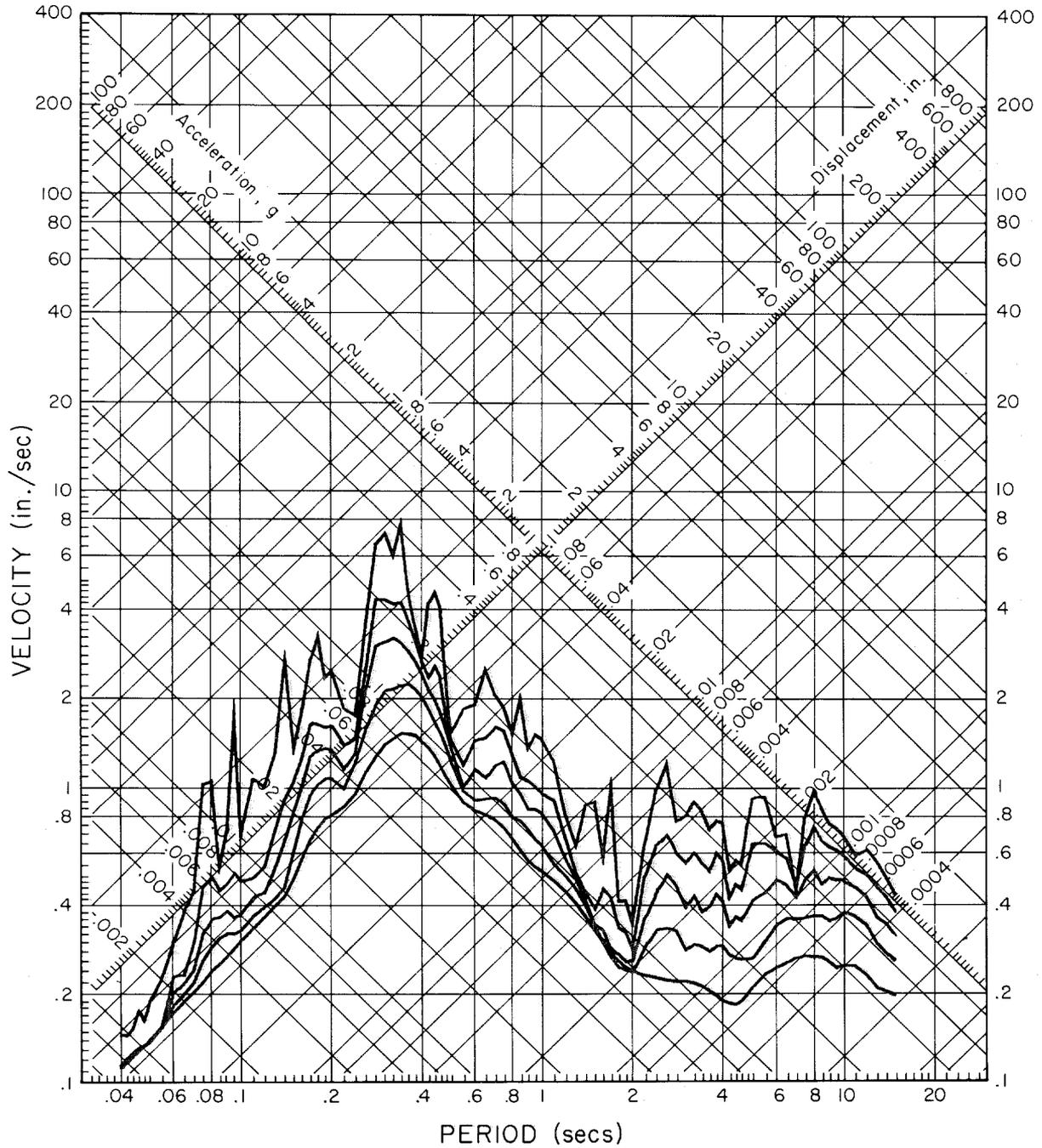


RESPONSE SPECTRUM

SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST

IIIA016 57.007.0 SAN FRANCISCO STATE BLDG BASEMENT COMP VERT

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST

I11A016 57.007.0 SAN FRANCISCO STATE BLDG BASEMENT COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

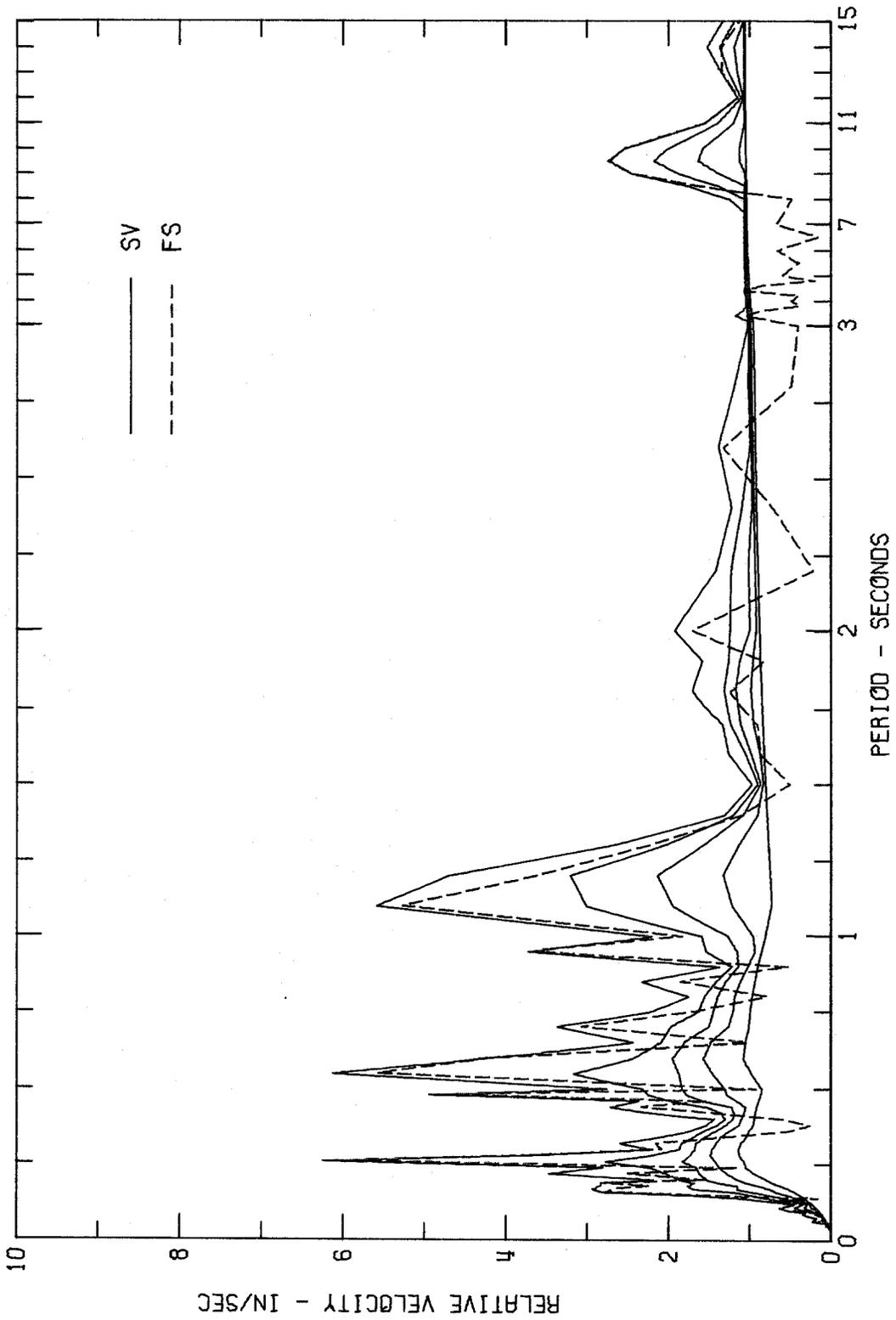
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	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV	FS	SD	SV	SA	PSV																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
0.040	430-4	931-6	602-4	595-4	146-3	730-6	436-4	467-4	468-4	114-3	732-6	407-4	468-4	114-3	727-6	363-4	465-4	465-4	465-4	114-3	717-6	294-4	460-4	460-4	112-3	410-4	974-6	638-4	564-4	145-3	818-6	443-4	474-4	470-4	470-4	119-3	801-6	374-4	466-4	466-4	119-3	791-6	307-4	461-4	461-4	118-3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
0.044	377-4	109-5	736-4	575-4	155-3	900-6	488-4	475-4	469-4	126-3	887-6	432-4	469-4	126-3	877-6	381-4	465-4	465-4	465-4	125-3	868-6	316-4	462-4	462-4	124-3	0.046	641-4	129-5	870-4	628-4	177-3	975-6	491-4	471-4	471-4	131-3	955-6	405-4	463-4	463-4	130-3	949-6	325-4	462-4	462-4	129-3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
0.048	385-4	125-5	778-4	555-4	163-3	103-5	513-4	461-4	458-4	135-3	103-5	474-4	458-4	135-3	103-5	424-4	461-4	461-4	461-4	135-3	103-5	344-4	463-4	463-4	135-3	0.050	739-4	151-5	974-4	617-4	189-3	110-5	561-4	453-4	454-4	139-3	112-5	430-4	459-4	459-4	141-3	112-5	375-4	463-4	463-4	141-3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
0.055	128-3	201-5	161-3	680-4	230-3	139-5	778-4	470-4	465-4	157-3	138-5	518-4	471-4	158-3	138-5	451-4	470-4	470-4	470-4	158-3	138-5	470-4	470-4	158-3	0.060	243-4	290-5	176-3	823-4	303-3	219-5	892-4	623-4	623-4	230-3	193-5	690-4	551-4	551-4	202-3	177-5	609-4	504-4	504-4	185-3	167-5	521-4	481-4	481-4	175-3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
0.065	330-3	397-5	368-3	962-4	384-3	244-5	122-3	592-4	557-4	222-3	210-5	771-4	509-4	203-3	210-5	771-4	509-4	509-4	509-4	203-3	198-5	655-4	486-4	486-4	192-3	0.070	404-3	508-5	414-3	106-3	456-3	332-5	206-3	692-4	692-4	298-3	274-5	142-3	575-4	113-3	525-4	223-3	230-5	798-4	798-4	206-3	0.075	692-3	123-4	909-3	224-3	103-2	553-5	390-3	101-3	707-4	707-4	322-3	316-5	164-3	577-4	265-3	266-5	994-4	497-4	497-4	223-3	0.080	740-3	136-4	885-3	217-3	107-2	645-5	472-3	103-3	867-4	867-4	363-3	373-5	194-3	604-4	293-3	309-5	116-3	510-4	243-3	0.085	402-3	135-4	855-3	104-3	543-3	615-5	348-3	884-3	884-3	454-3	499-5	246-3	708-4	708-4	369-3	425-5	196-3	610-4	314-3	349-5	131-3	506-4	258-3	0.090	119-3	102-4	682-3	129-3	178-3	691-5	368-3	875-4	875-4	482-3	558-5	285-3	700-4	700-4	389-3	468-5	212-3	595-4	326-3	391-5	143-3	510-4	243-3	0.095	152-2	267-4	173-2	303-3	176-2	783-5	442-3	888-4	888-4	518-3	555-5	276-3	637-4	637-4	367-3	491-5	223-3	564-4	325-3	440-5	156-3	505-4	291-3	0.100	605-3	110-4	653-3	113-3	694-3	774-5	416-3	797-4	797-4	486-3	606-5	277-3	632-4	632-4	381-3	534-5	248-3	543-4	335-3	492-5	163-3	510-4	309-3	0.110	646-3	188-4	100-2	159-3	107-2	886-5	429-3	749-4	749-4	506-3	758-5	310-3	649-4	649-4	433-3	656-5	225-3	559-4	375-3	596-5	202-3	519-4	340-3	0.120	100-2	195-4	101-2	138-3	102-2	104-4	505-3	738-4	738-4	545-3	856-5	393-3	605-4	605-4	448-3	766-5	319-3	555-4	401-3	714-5	246-3	519-4	374-3	0.130	128-2	272-4	130-2	165-3	131-2	149-4	609-3	906-4	906-4	722-3	111-4	443-3	685-4	685-4	540-3	891-5	342-3	537-4	430-3	841-5	278-3	519-4	406-3	0.140	266-2	608-4	271-2	317-3	272-2	207-4	874-3	107-3	107-3	929-3	149-4	575-3	773-4	773-4	668-3	105-4	408-3	548-4	471-3	978-5	319-3	520-4	438-3	0.150	916-3	327-4	123-2	148-3	137-2	256-4	960-3	116-3	116-3	107-2	200-4	701-3	910-4	838-3	147-4	476-3	886-4	616-3	120-4	347-3	563-4	504-3	0.160	120-2	470-4	178-2	187-3	184-2	329-4	110-2	131-3	129-2	262-4	859-3	106-3	103-2	202-4	615-3	815-4	795-3	150-4	387-3	621-4	589-3	0.170	196-2	732-4	253-2	259-3	270-2	448-4	157-2	158-3	165-2	348-4	101-2	123-3	128-2	257-4	714-3	926-4	951-3	183-4	455-3	673-4	676-3	0.180	313-2	939-4	329-3	296-3	328-2	471-4	134-2	148-3	164-2	388-4	106-2	123-3	135-2	298-4	778-3	962-4	108-2	213-4	506-3	700-4	745-3	0.190	219-2	717-4	235-2	203-3	237-2	492-4	139-2	139-2	162-2	417-4	109-2	118-3	138-2	329-4	790-3	948-4	108-2	240-4	545-3	705-4	794-3	0.200	121-2	796-4	232-2	203-3	250-2	524-4	158-2	134-3	164-2	433-4	111-2	110-3	136-2	345-4	787-3	872-4	108-2	261-4	563-3	704-4	822-3	0.220	187-2	655-4	187-2	138-3	187-2	495-4	134-2	105-3	141-2	411-4	101-2	882-4	117-2	354-4	898-3	750-4	101-2	306-4	639-3	666-4	876-3	0.240	935-3	676-4	169-2	120-3	177-2	569-4	141-2	100-3	254-2	886-4	201-2	134-3	214-2	661-4	145-2	840-4	123-2	372-4	789-3	690-4	975-3	0.260	345-2	153-3	372-2	387-3	667-2	192-3	435-2	253-3	432-2	134-3	301-2	178-3	301-2	115-3	190-2	577-4	121-2	803-4	129-2	0.300	714-2	348-3	730-2	395-3	729-2	206-3	437-2	233-3	432-2	149-3	329-2	170-3	313-2	102-3	218-2	680-4	141-2	821-4	142-2	0.320	507-2	424-3	603-2	312-3	613-2	215-3	442-2	216-3	422-2	165-3	330-2	163-3	324-2	110-3	231-2	760-4	151-2	817-4	149-2	0.340	718-2	424-3	787-2	375-3	784-2	230-3	445-2	205-3	426-2	167-3	335-2	309-2	121-3	238-2	843-4	152-2	805-4	155-2	0.360	245-2	262-3	478-2	207-3	459-2	210-3	391-2	165-3	367-2	166-3	306-2	131-3	291-2	129-3	230-2	104-3	226-2	885-4	156-2	754-4	154-2	0.380	303-2	211-3	367-2	149-3	349-2	189-3	324-2	133-3	313-2	162-3	274-2	216-2	952-4	216-2	925-4	156-2	715-4	153-2	0.400	136-2	179-3	295-2	114-3	282-2	168-3	273-2	108-3	265-2	153-3	247-2	988-4	241-2	128-3	202-2	923-4	157-2	653-4	145-2	0.420	392-2	282-3	424-2	164-3	423-2	158-3	245-2	917-4	237-2	144-3	215-2	124-3	185-2	925-4	158-2	590-4	138-2	0.440	449-2	324-3	470-2	171-3	464-2	182-3	263-2	967-4	967-4	239-3	221-2	737-4	199-2	118-3	169-2	911-4	158-2	538-4	130-2	0.460	398-2	295-3	403-2	142-3	403-2	173-3	244-2	840-4	237-2	132-3	214-2	646-4	180-2	114-3	888-2	568-4	485-4	120-2	0.480	232-2	179-3	234-2	796-4	234-2	135-3	216-2	600-4	176-2	122-3	201-2	544-4	159-2	487-4	140-2	434-4	110-2	0.500	146-2	124-3	205-2	509-4	156-2	117-3	195-2	680-4	147-2	110-3	185-2	452-4	138-2	989-4	172-2	420-4	124-2	823-4	146-2	307-4	103-2	0.550	120-2	163-3	189-2	552-4	186-2	106-3	151-2	361-4	121-2	903-4	153-2	309-4	103-2	871-4	788-4	138-2	383-4	900-3	0.600	190-2	184-3	192-2	522-4	192-2	139-3	156-2	395-4	146-2	111-3	150-2	319-4	117-2	878-4	807-4	132-2	264-4	845-3	0.650	232-2	261-3	255-2	634-4	253-2	155-3	178-2	376-4	150-2	111-3	156-2	278-4	109-2	970-4	847-4	127-2	237-4	819-3	0.700	201-2	232-3	212-2	484-4	208-2	181-3	167-2	380-4	163-2	135-3	149-2	286-4	121-2	104-3	136-2	228-4	939-3	878-4	120-2	214-4	788-3

IIIA016 57.007.0 SAN FRANCISCO STATE BLDG BASEMENT COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT				DAMPING = 2 PERCENT				DAMPING = 5 PERCENT				DAMPING = 10 PERCENT				DAMPING = 20 PERCENT					
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	
0.75	904-3	223-3	211-2	406-4	187-2	187-3	177-2	341-4	157-2	148-3	140-2	271-4	124-2	106-3	123-2	203-4	892-3	882-4	111-2	191-4	739-3	
0.80	114-2	197-3	177-2	316-4	155-2	167-3	151-2	268-4	131-2	134-3	133-2	215-4	105-2	102-3	121-2	174-4	805-3	864-4	106-2	170-4	679-3	
0.85	137-2	273-3	205-2	387-4	202-2	150-3	133-2	213-4	110-2	131-3	127-2	186-4	969-3	105-3	119-2	154-4	783-3	840-4	106-2	149-4	621-3	
0.90	353-3	198-3	138-2	250-4	138-2	154-3	123-2	194-4	107-2	123-3	119-2	156-4	861-3	104-3	114-2	137-4	731-3	821-4	105-2	131-4	573-3	
0.95	152-2	232-3	152-2	263-4	153-2	155-3	121-2	176-4	102-2	130-3	111-2	149-4	864-3	102-3	109-2	120-4	679-3	830-4	103-2	116-4	549-3	
1.00	126-2	235-3	153-2	240-4	147-2	155-3	116-2	158-4	975-3	132-3	105-2	136-4	829-3	103-3	104-2	110-4	648-3	843-4	101-2	105-4	529-3	
1.10	118-2	217-3	128-2	183-4	124-2	161-3	100-2	136-4	919-3	126-3	975-3	107-4	721-3	975-4	983-3	886-5	557-3	860-4	977-3	924-5	491-3	
1.20	446-3	156-3	102-2	111-4	818-3	131-3	981-3	933-3	688-3	111-3	960-3	800-5	583-3	978-4	962-3	767-5	512-3	867-4	958-3	812-5	454-3	
1.30	312-3	134-3	983-3	814-5	650-3	109-3	979-3	660-5	527-3	103-3	972-3	645-5	499-3	958-4	962-3	651-5	463-3	856-4	950-3	713-5	413-3	
1.40	491-3	197-3	101-2	102-4	884-3	100-3	100-2	102-2	522-5	449-3	947-4	988-3	513-5	425-3	904-4	968-3	539-5	405-3	831-4	947-3	625-5	373-3
1.50	785-3	218-3	102-2	995-5	917-3	952-4	101-2	433-5	398-3	842-4	998-3	401-5	352-3	836-4	973-3	445-5	350-3	802-4	943-3	550-5	336-3	
1.60	257-3	151-3	102-2	604-5	594-3	118-3	101-2	474-5	465-3	859-4	997-3	345-5	337-3	776-4	972-3	373-5	304-3	779-4	938-3	488-5	305-3	
1.70	985-3	277-3	101-2	981-5	102-2	116-3	100-2	413-5	431-3	782-4	988-3	278-5	289-3	737-4	965-3	321-5	272-3	763-4	931-3	439-5	282-3	
1.80	113-3	121-3	993-3	384-5	425-3	992-4	984-3	313-5	346-3	801-4	972-3	259-5	279-3	724-4	954-3	286-5	252-3	758-4	922-3	401-5	264-3	
1.90	277-3	128-3	968-3	364-5	425-3	100-3	962-3	284-5	331-3	801-4	953-3	245-5	264-3	749-4	939-3	270-5	248-3	764-4	912-3	371-5	252-3	
2.00	349-3	113-3	941-3	289-5	355-3	926-4	938-3	237-5	290-3	845-4	933-3	230-5	265-3	774-4	923-3	255-5	243-3	780-4	902-3	348-5	245-3	
2.20	329-3	230-3	892-3	486-5	657-3	179-3	893-3	380-5	512-3	129-3	893-3	276-5	370-3	103-3	891-3	228-5	295-3	830-4	882-3	316-5	237-3	
2.40	896-3	382-3	104-2	679-5	100-2	248-3	855-3	441-5	650-3	171-3	859-3	307-5	449-3	129-3	863-3	243-5	340-3	889-4	863-3	292-5	232-3	
2.60	112-2	510-3	120-2	771-5	123-2	293-3	827-3	444-5	709-3	216-3	833-3	329-5	522-3	142-3	840-3	225-5	344-3	945-4	846-3	271-5	228-3	
2.80	528-3	351-3	865-3	458-5	789-3	275-3	807-3	359-5	617-3	211-3	814-3	278-5	474-3	149-3	833-3	200-5	336-3	101-3	843-3	253-5	226-3	
3.00	436-3	390-3	792-3	444-5	818-3	272-3	794-3	309-5	570-3	193-3	801-3	223-5	405-3	139-3	810-3	175-5	291-3	108-3	822-3	235-5	226-3	
3.20	910-3	465-3	911-3	465-5	914-3	316-3	804-3	316-5	620-3	227-3	795-3	221-5	446-3	155-3	802-3	160-5	305-3	114-3	814-3	219-5	223-3	
3.40	551-3	458-3	914-3	406-5	848-3	306-3	818-3	271-5	565-3	211-3	808-3	188-5	391-3	161-3	796-3	149-5	298-3	118-3	809-3	204-5	218-3	
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3.80	771-3	479-3	843-3	339-5	792-3	371-3	836-3	263-5	614-3	271-3	826-3	193-5	449-3	183-3	810-3	131-5	302-3	123-3	803-3	177-5	203-3	
4.00	460-3	489-3	848-3	312-5	769-3	367-3	841-3	234-5	576-3	269-3	831-3	172-5	422-3	190-3	816-3	124-5	299-3	124-3	801-3	165-5	195-3	
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4.40	194-3	409-3	850-3	215-5	581-3	338-3	844-3	179-5	483-3	265-3	835-3	141-5	379-3	192-3	822-3	105-5	275-3	132-3	801-3	145-5	189-3	
4.60	516-3	409-3	849-3	197-5	559-3	339-3	844-3	164-5	464-3	266-3	836-3	129-5	364-3	199-3	823-3	984-6	272-3	143-3	802-3	136-5	196-3	
4.80	679-3	571-3	848-3	253-5	748-3	420-3	843-3	186-5	549-3	303-3	835-3	135-5	397-3	208-3	823-3	954-6	272-3	158-3	803-3	128-5	207-3	
5.00	583-3	744-3	100-2	304-5	935-3	523-3	841-3	214-5	657-3	340-3	834-3	140-5	427-3	217-3	823-3	921-6	273-3	174-3	805-3	121-5	218-3	
5.50	959-3	840-3	959-3	284-5	960-3	584-3	834-3	197-5	667-3	399-3	829-3	135-5	456-3	273-3	820-3	937-6	312-3	211-3	809-3	107-5	241-3	
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6.50	715-3	739-3	824-3	179-5	715-3	616-3	823-3	149-5	595-3	497-3	822-3	120-5	480-3	387-3	820-3	961-6	374-3	274-3	818-3	932-6	265-3	
7.00	465-3	517-3	831-3	108-5	464-3	535-3	830-3	111-5	480-3	490-3	828-3	102-5	439-3	416-3	826-3	901-6	373-3	307-3	823-3	873-6	275-3	
7.50	816-3	973-3	837-3	177-5	815-3	780-3	836-3	141-5	653-3	605-3	834-3	110-5	507-3	450-3	831-3	845-6	377-3	335-3	827-3	819-6	280-3	
8.00	993-3	126-2	993-3	202-5	993-3	962-3	841-3	153-5	755-3	692-3	839-3	111-5	544-3	488-3	836-3	804-6	383-3	354-3	831-3	770-6	278-3	
8.50	848-3	119-2	958-3	168-5	879-3	921-3	845-3	130-5	681-3	659-3	843-3	946-6	487-3	519-3	840-3	757-6	383-3	375-3	834-3	728-6	277-3	
9.00	591-3	110-2	896-3	139-5	773-3	936-3	849-3	118-5	653-3	740-3	847-3	950-6	517-3	526-3	843-3	702-6	367-3	382-3	838-3	689-6	266-3	
9.50	438-3	112-2	881-3	127-5	746-3	955-3	852-3	108-5	631-3	755-3	850-3	871-6	500-3	570-3	846-3	660-6	377-3	386-3	841-3	653-6	255-3	
10.00	462-3	112-2	871-3	115-5	707-3	965-3	855-3	992-6	606-3	794-3	853-3	824-6	498-3	623-3	849-3	668-6	391-3	414-3	843-3	621-6	260-3	
11.00	608-3	106-2	862-3	899-6	607-3	963-3	860-3	816-6	550-3	833-3	858-3	710-6	476-3	664-3	854-3	593-6	379-3	451-3	848-3	564-6	257-3	
12.00	636-3	121-2	865-3	863-6	636-3	996-3	864-3	708-6	521-3	842-3	862-3	605-6	440-3	678-3	858-3	502-6	355-3	459-3	852-3	517-6	240-3	
13.00	572-3	118-2	869-3	716-6	572-3	979-3	867-3	593-6	473-3	777-3	865-3	479-6	375-3	636-3	861-3	407-6	307-3	451-3	855-3	476-6	218-3	
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15.00	355-3	106-2	873-3	485-6	447-3	932-3	872-3	424-6	390-3	773-3	870-3	355-6	324-3	645-3	867-3	310-6	270-3	489-3	861-3	411-6	205-3	

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
111A017 57.010.0 OAKLAND CITY HALL BASEMENT COMP N26E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

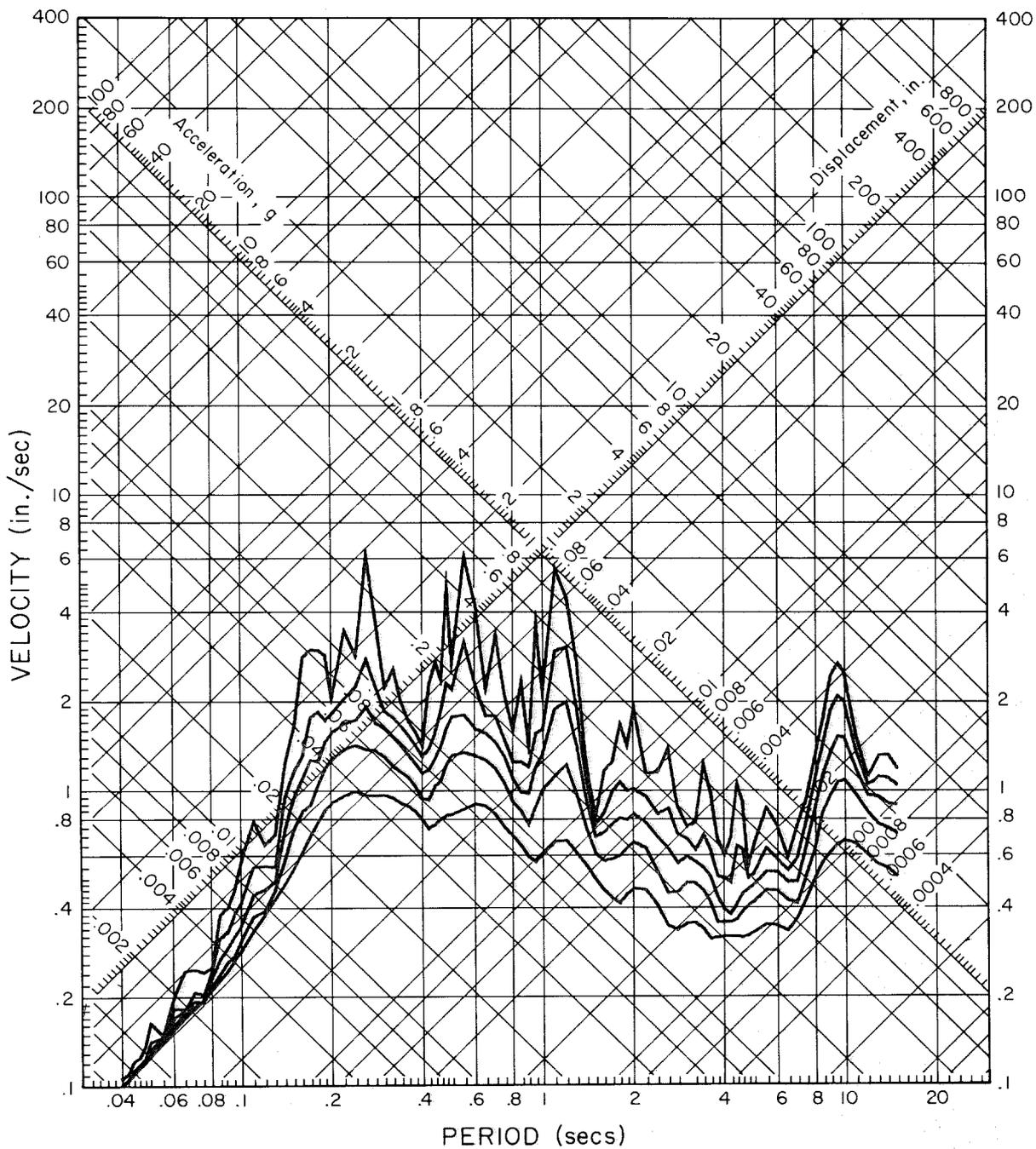


RESPONSE SPECTRUM

SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST

IIIA017 57.010.0 OAKLAND CITY HALL BASEMENT COMP N26E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
IIIA017 57.010.0 OAKLAND CITY HALL BASEMENT COMP N26E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

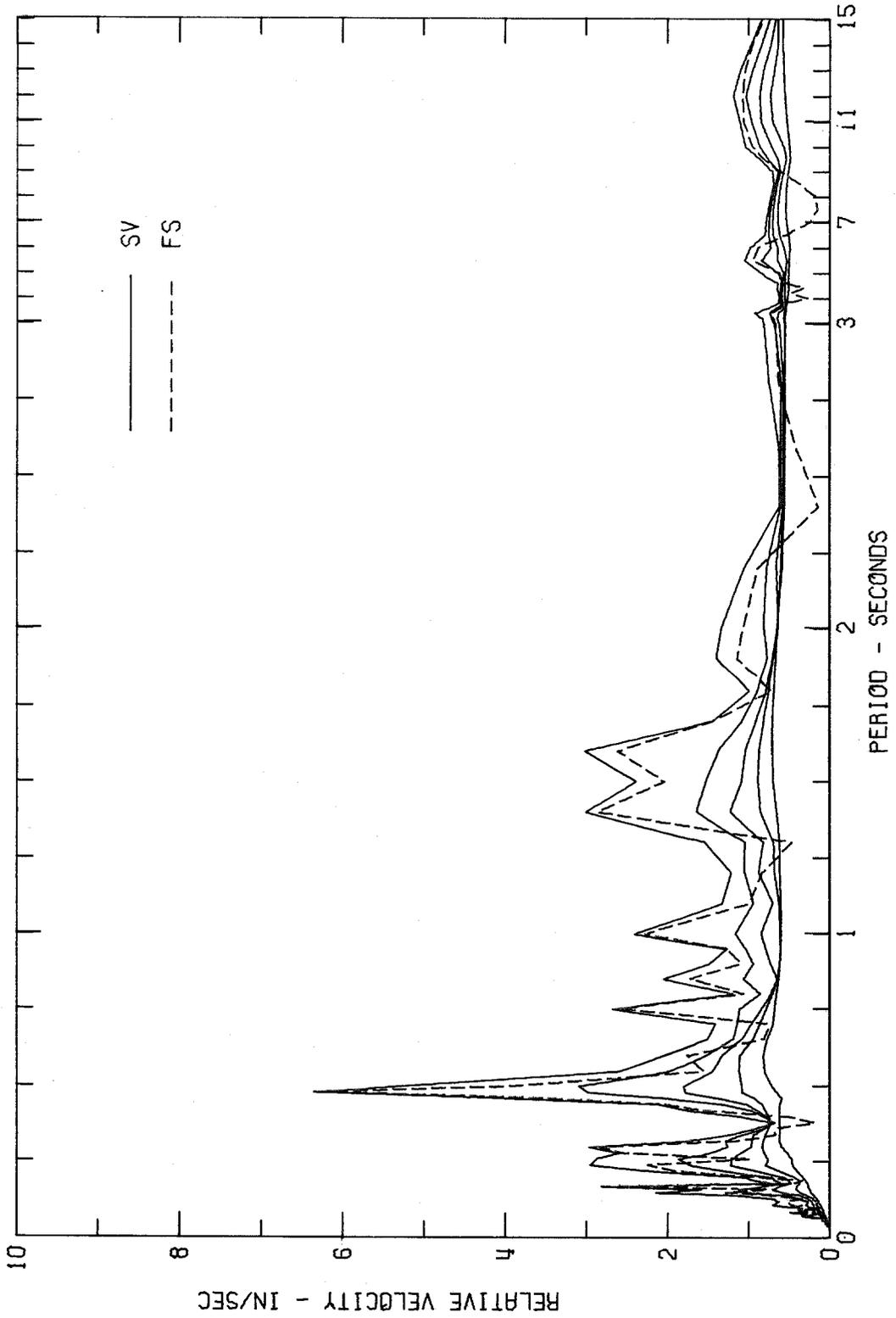
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0.044	131-4	856-6	321-4	452-4	122-3	801-6	233-4	423-4	114-3	783-6	217-4	413-4	111-3	777-6	219-4	411-4	111-3
0.046	191-4	925-6	311-4	447-4	126-3	875-6	241-4	423-4	119-3	862-6	249-4	417-4	117-3	850-6	250-4	413-4	116-3
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0.055	509-4	130-5	585-4	440-4	148-3	129-5	553-4	437-4	147-3	129-5	503-4	438-4	148-3	127-5	448-4	430-4	145-3
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0.065	225-3	256-5	236-3	620-4	247-3	189-5	839-4	458-4	183-3	189-5	755-4	457-4	182-3	183-5	680-4	444-4	177-3
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0.090	190-3	579-5	352-3	732-4	404-3	587-5	245-3	664-4	388-3	490-5	187-3	553-4	324-3	420-5	148-3	478-4	277-3
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0.140	159-3	277-4	108-3	144-3	124-2	212-4	808-3	111-3	955-3	164-4	573-3	853-4	737-3	129-4	407-3	680-4	581-3
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I11A017 57.010.0 OAKLAND CITY HALL BASEMENT COMP N26E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT				DAMPING = 2 PERCENT				DAMPING = 5 PERCENT				DAMPING = 10 PERCENT				DAMPING = 20 PERCENT				
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4.60	852-3	681-3	105-2	329-5	930-3	468-3	105-2	226-5	639-3	336-3	104-2	163-5	459-3	292-3	103-2	154-5	399-3	237-3	100-2	189-5	325-3
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15.00	112-2	288-2	133-2	131-5	120-2	255-2	118-2	116-5	107-2	217-2	107-2	999-6	911-3	174-2	107-2	813-6	729-3	124-2	106-2	643-6	521-3

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
111A017 57.010.0 OAKLAND CITY HALL BASEMENT COMP S64E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

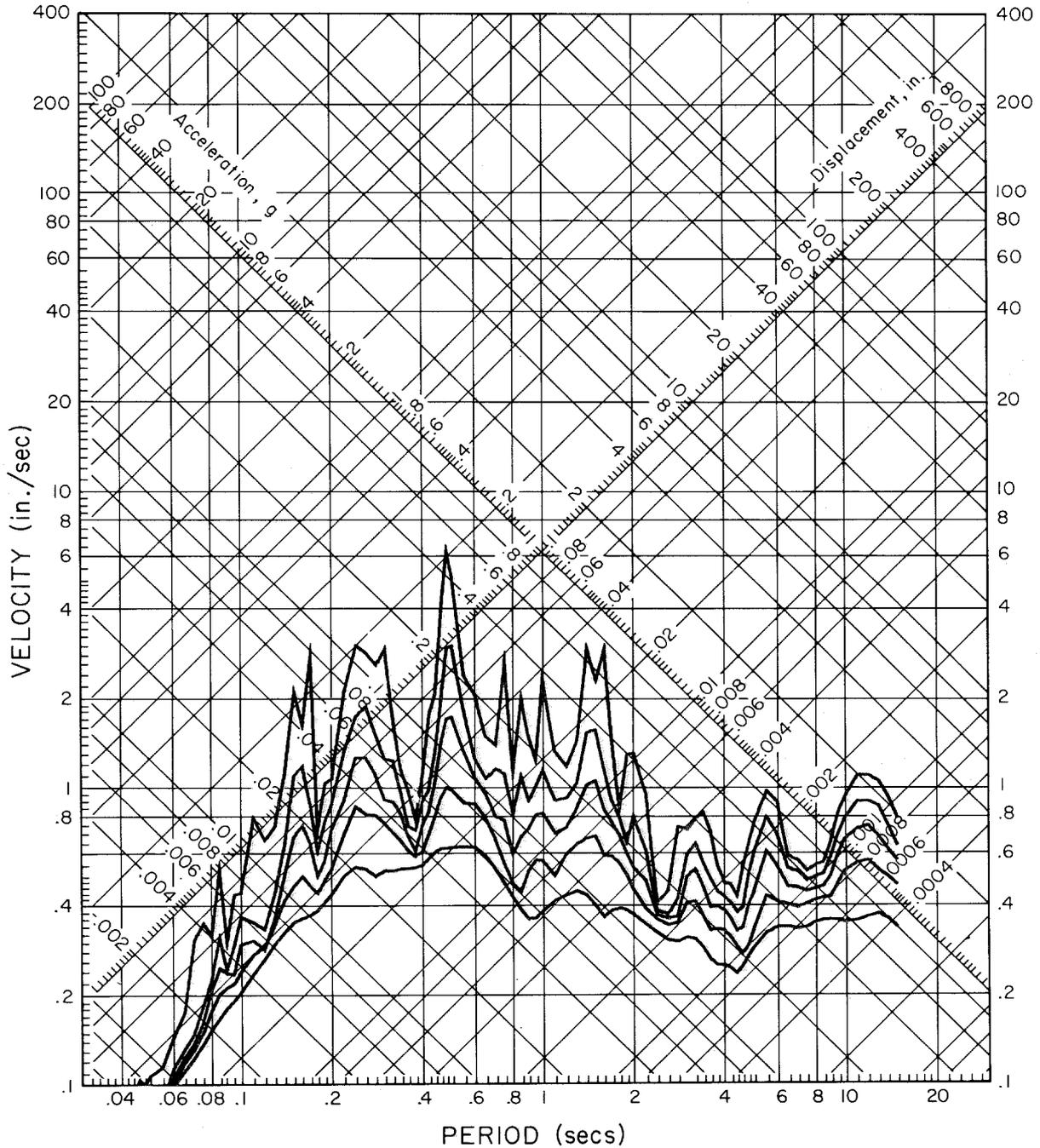


RESPONSE SPECTRUM

SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST

IIIA017 57.010.0 OAKLAND CITY HALL BASEMENT COMP S64E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

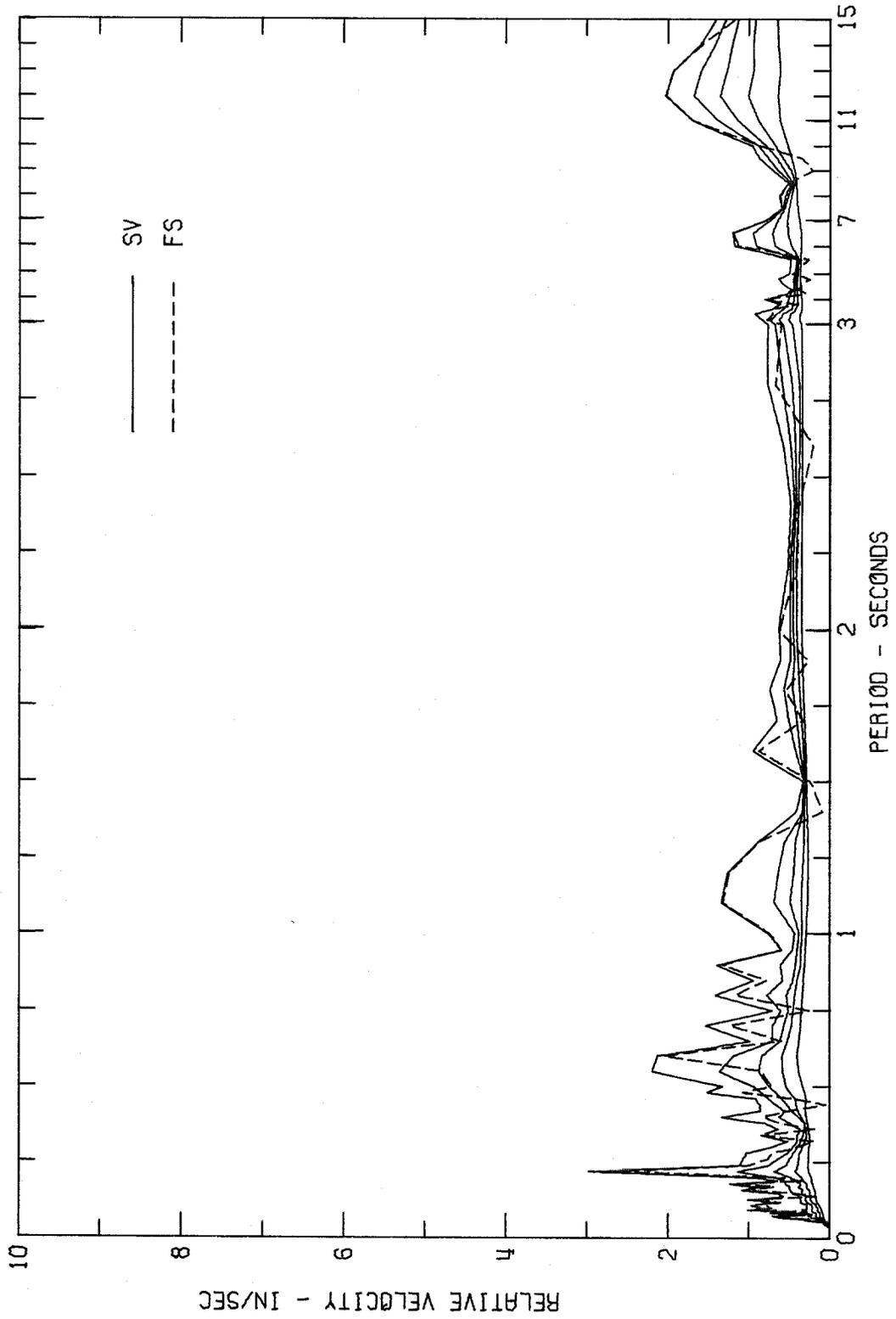


SAN FRANCISCO EARTHQUAKE MAR 22, 1957 - 1144 PST
IIIA017 57.010.0 OAKLAND CITY HALL BASEMENT COMP S64E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT				DAMPING = 2 PERCENT				DAMPING = 5 PERCENT				DAMPING = 10 PERCENT				DAMPING = 20 PERCENT						
	FS	SV	SD	PSV	SA	SV	SD	PSV	SA	SV	SD	PSV	SA	SV	SD	PSV	SA	SV	SD	PSV	SA	SV	SD
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0.042	245-4	572-6	382-4	332-4	856-4	445-6	278-4	258-4	666-4	446-6	240-4	259-4	668-4	443-6	196-4	258-4	663-4	145-4	256-4	653-4	145-4	256-4	653-4
0.044	237-4	644-6	386-4	340-4	920-4	497-6	296-4	262-4	709-4	494-6	259-4	261-4	705-4	488-6	210-4	259-4	697-4	152-4	257-4	687-4	152-4	257-4	687-4
0.046	360-4	765-6	485-4	370-4	104-3	542-6	299-4	262-4	740-4	537-6	264-4	260-4	733-4	535-6	217-4	260-4	731-4	168-4	258-4	722-4	168-4	258-4	722-4
0.048	531-4	768-6	550-4	341-4	100-3	589-6	314-4	261-4	771-4	588-6	275-4	262-4	770-4	584-6	224-4	261-4	765-4	186-4	259-4	757-4	186-4	259-4	757-4
0.050	409-4	864-6	492-4	353-4	108-3	668-6	315-4	273-4	839-4	644-6	276-4	263-4	809-4	639-6	228-4	261-4	803-4	204-4	259-4	792-4	204-4	259-4	792-4
0.055	204-4	101-5	593-4	344-4	116-3	776-6	337-4	262-4	887-4	785-6	302-4	266-4	897-4	778-6	285-4	265-4	889-4	780-6	261-4	892-4	780-6	261-4	892-4
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0.075	338-3	422-5	349-3	768-4	353-3	222-5	121-3	403-4	186-3	196-5	969-4	358-4	164-3	181-5	784-4	328-4	151-3	165-5	611-4	307-4	611-4	307-4	138-3
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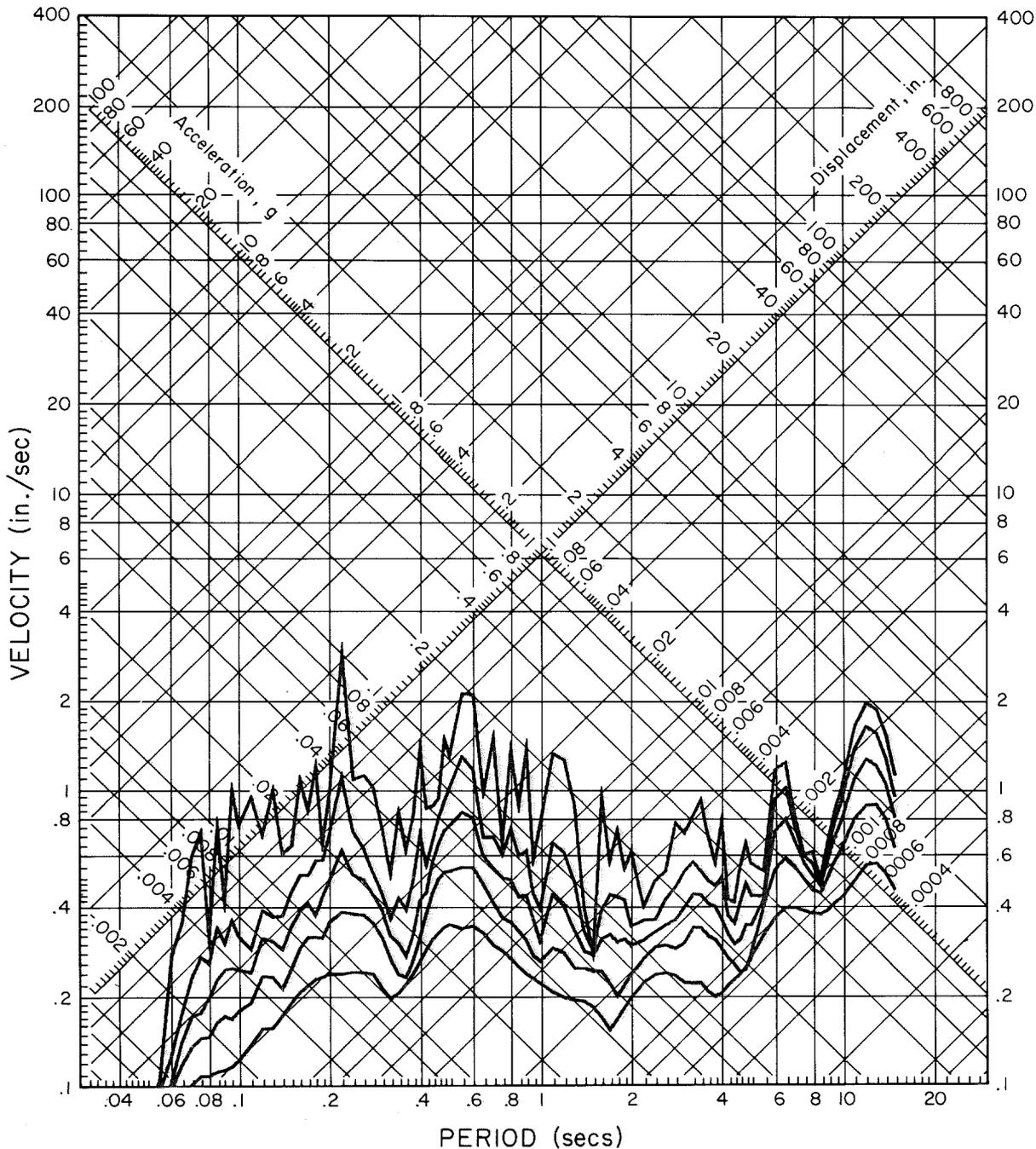


RESPONSE SPECTRUM

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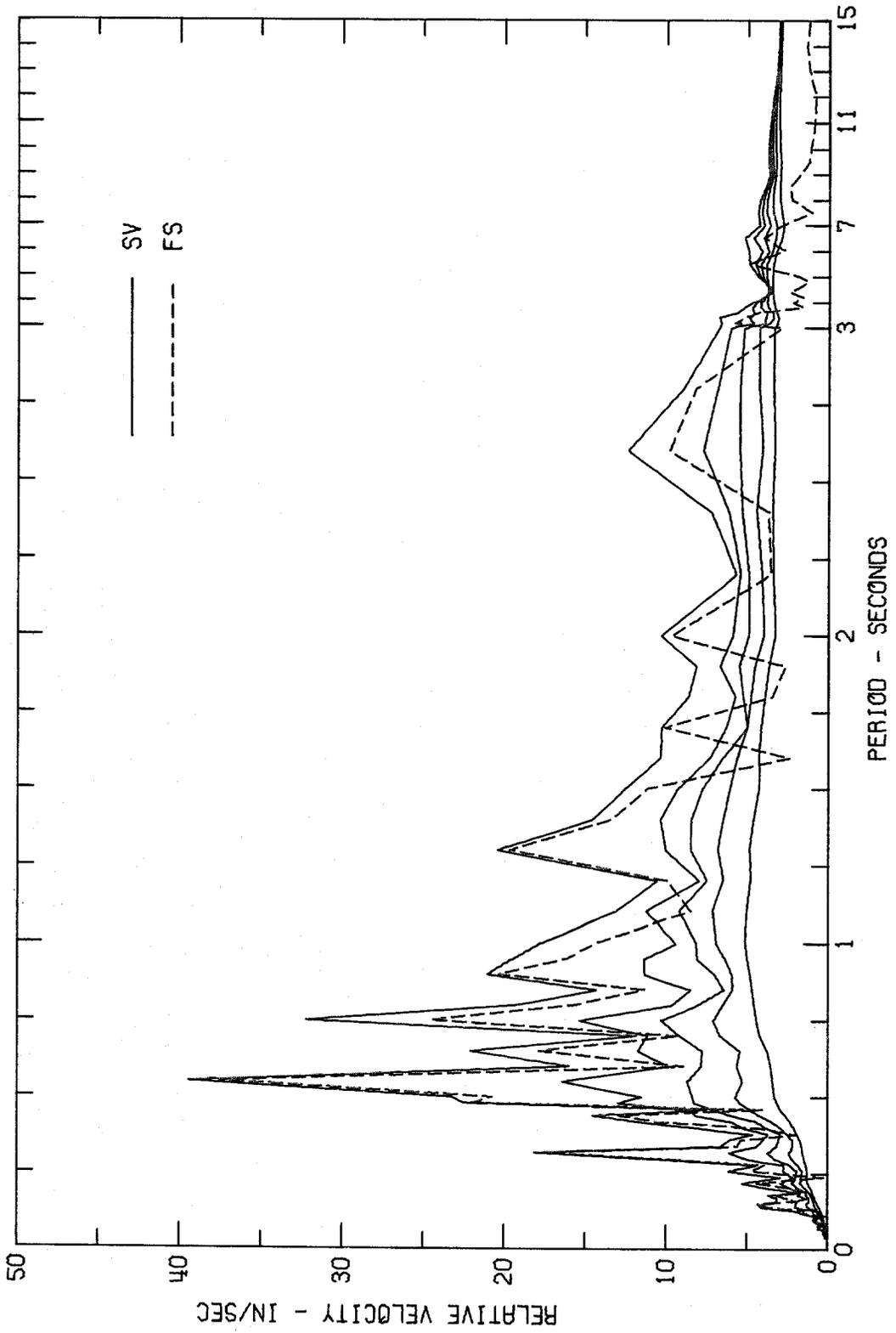


IIIA017 57.010.0 OAKLAND CITY HALL BASEMENT COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT				DAMPING = 2 PERCENT				DAMPING = 5 PERCENT				DAMPING = 10 PERCENT				DAMPING = 20 PERCENT				
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0.80	117-2	179-3	141-2	287-4	141-2	965-4	778-3	154-4	758-3	642-4	539-3	103-4	504-3	463-4	434-3	756-5	364-3	350-4	342-3	617-5	275-3
0.85	786-3	122-3	939-3	173-4	904-3	829-4	586-3	117-4	612-3	600-4	458-3	856-5	444-3	459-4	405-3	664-5	339-3	351-4	328-3	555-5	259-3
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RELATIVE VELOCITY RESPONSE SPECTRUM
HOLLISTER EARTHQUAKE APR 8, 1961 - 2323 PST
1111018 61.001.0 HOLLISTER CITY HALL COMP S01W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

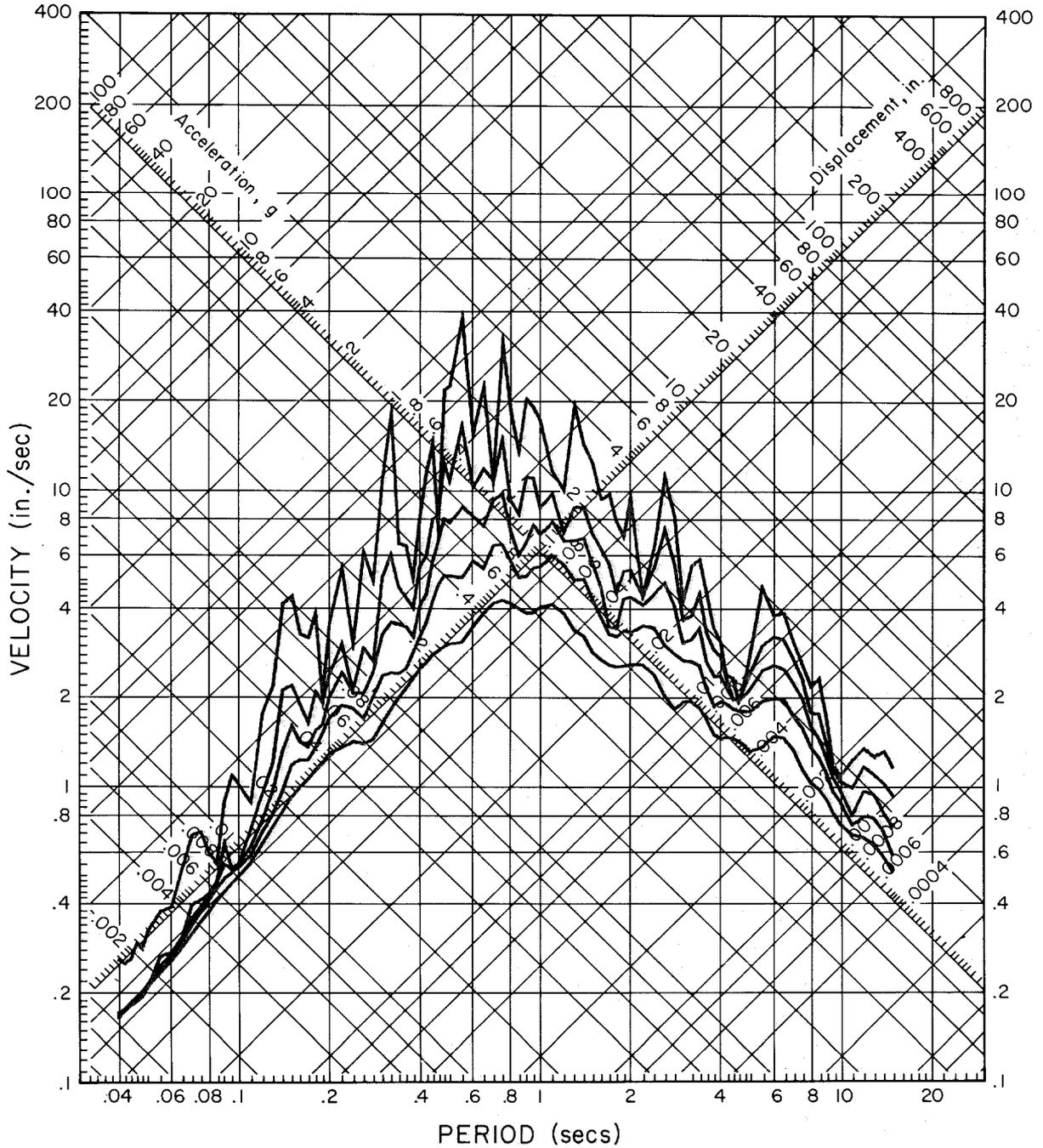


RESPONSE SPECTRUM

HOLLISTER EARTHQUAKE APR 8, 1961 - 2323 PST

IIIA018 61.001.0 HOLLISTER CITY HALL COMP S01W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

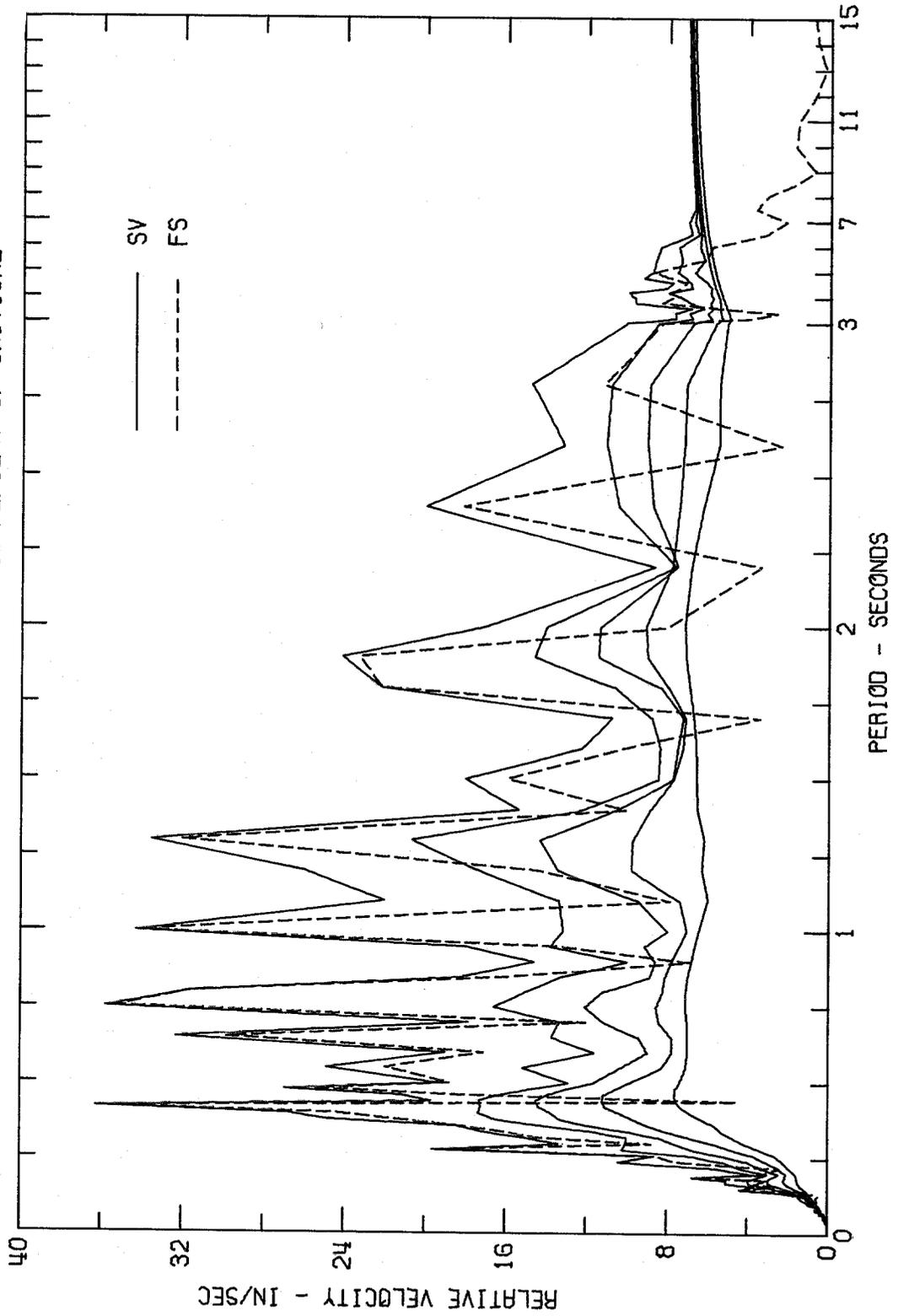


IIIA018 61.001.0 HOLLISTER CITY HALL COMP SO1W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

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0.80	156-1	243-2	191-1	388-3	191-1	123-2	960-2	195-3	960-2	966-3	802-2	155-3	758-2	764-3	650-2	124-3	600-2	550-3	457-2	260-4	432-2							
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0.95	161-1	298-2	194-1	338-3	197-1	173-2	113-1	196-3	114-1	120-2	809-2	137-3	796-2	858-3	634-2	997-4	567-2	605-3	499-2	743-4	400-2							
1.00	143-1	285-2	177-1	291-3	179-1	145-2	938-2	149-3	916-2	117-2	814-2	121-3	739-2	914-3	692-2	961-4	574-2	665-3	512-2	739-4	418-2							
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1.20	955-2	199-2	105-1	141-3	104-1	143-2	795-2	102-3	914-2	146-2	849-2	893-4	707-2	107-2	681-2	672-4	517-2	729-3	484-2	500-4	352-2							
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2.40	373-2	255-2	728-2	453-4	668-2	218-2	616-2	388-4	571-2	178-2	535-2	320-4	468-2	136-2	445-2	250-4	358-2	953-3	347-2	188-4	249-2							
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RELATIVE VELOCITY RESPONSE SPECTRUM
HOLLISTER EARTHQUAKE APR 8, 1961 - 2323 PST
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

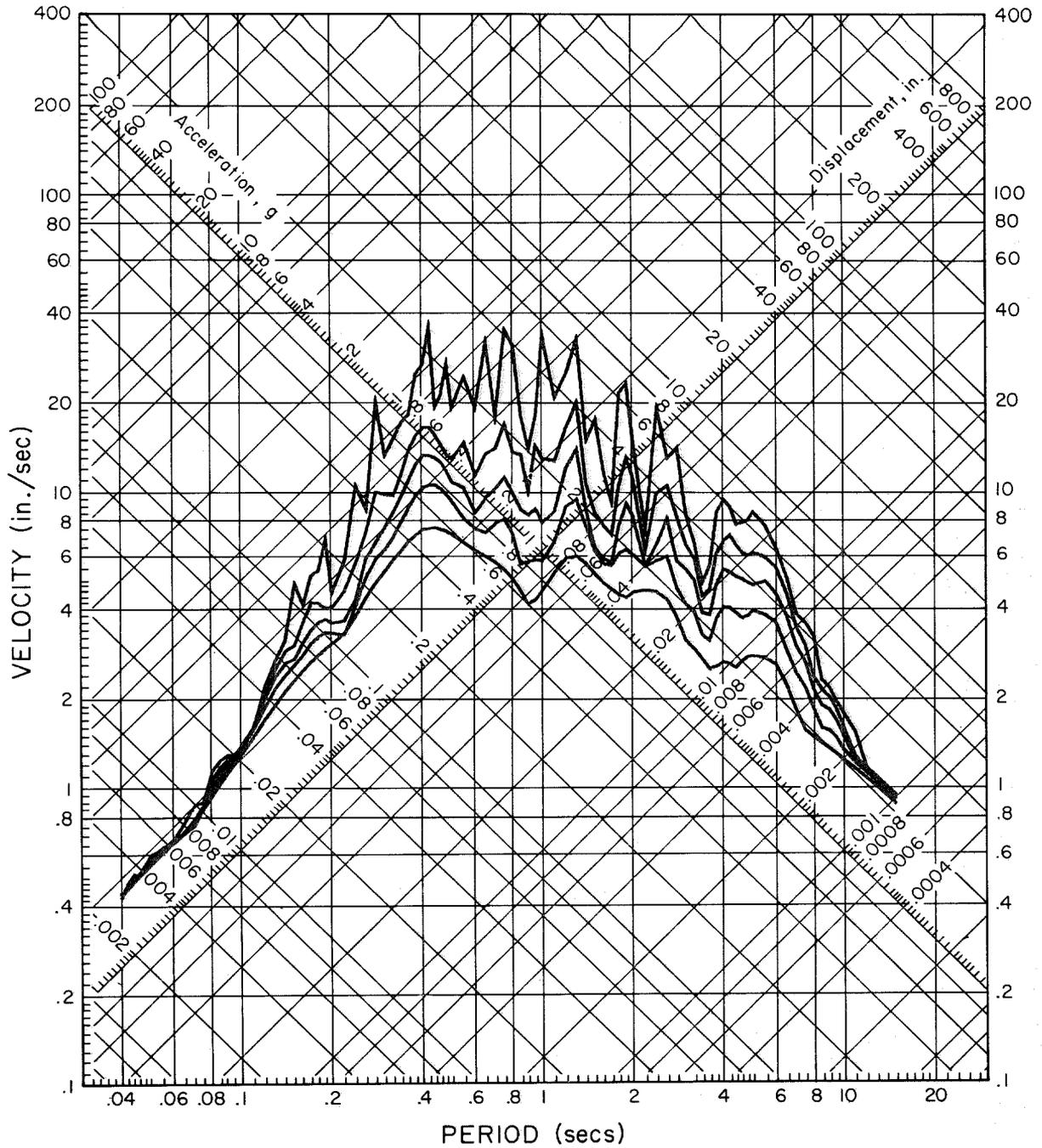


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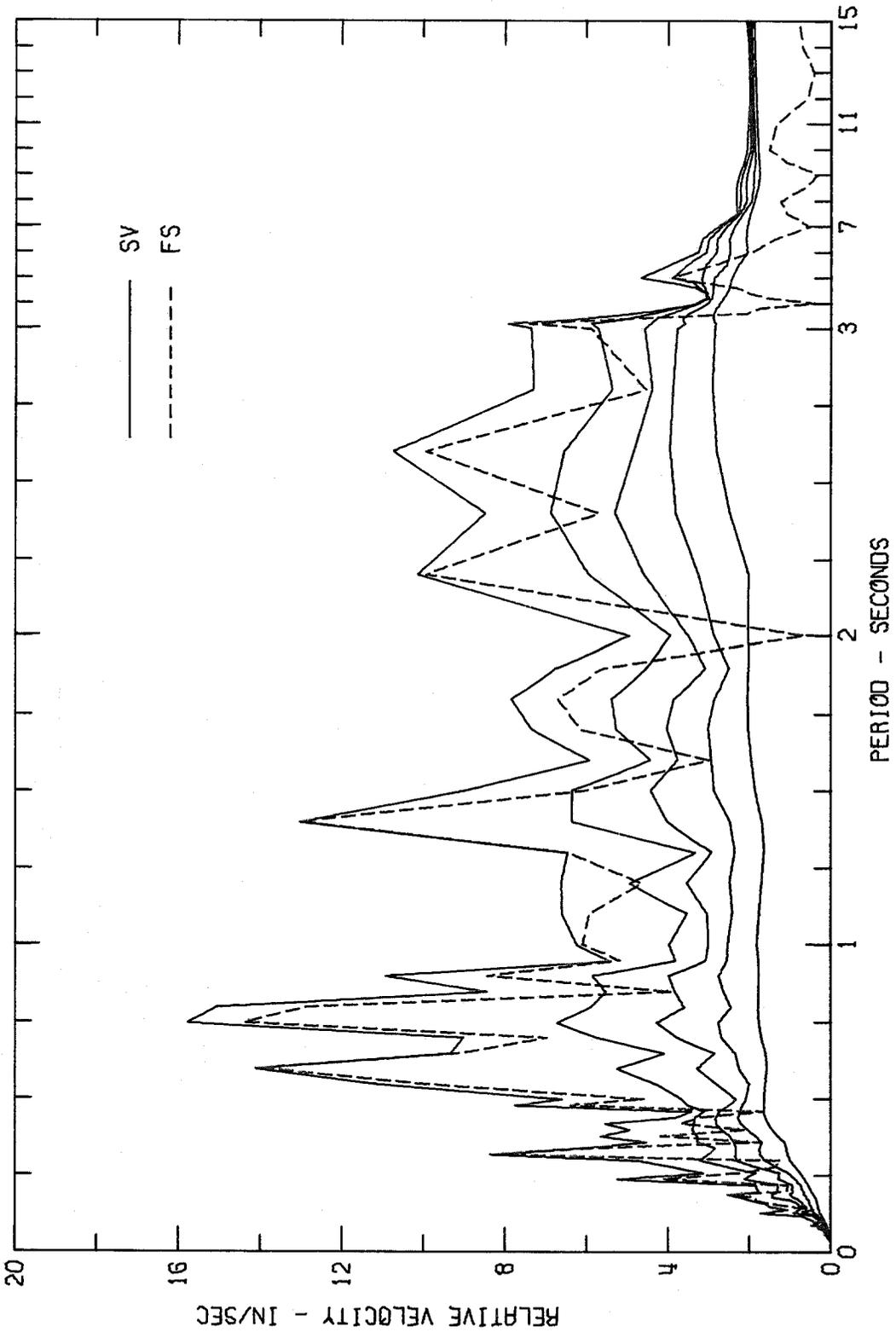
HOLLISTER EARTHQUAKE APR 8, 1961 - 2323 PST

IIIA018 61.001.0 HOLLISTER CITY HALL COMP N89W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



RELATIVE VELOCITY RESPONSE SPECTRUM
HOLLISTER EARTHQUAKE APR 8, 1961 - 2323 PST
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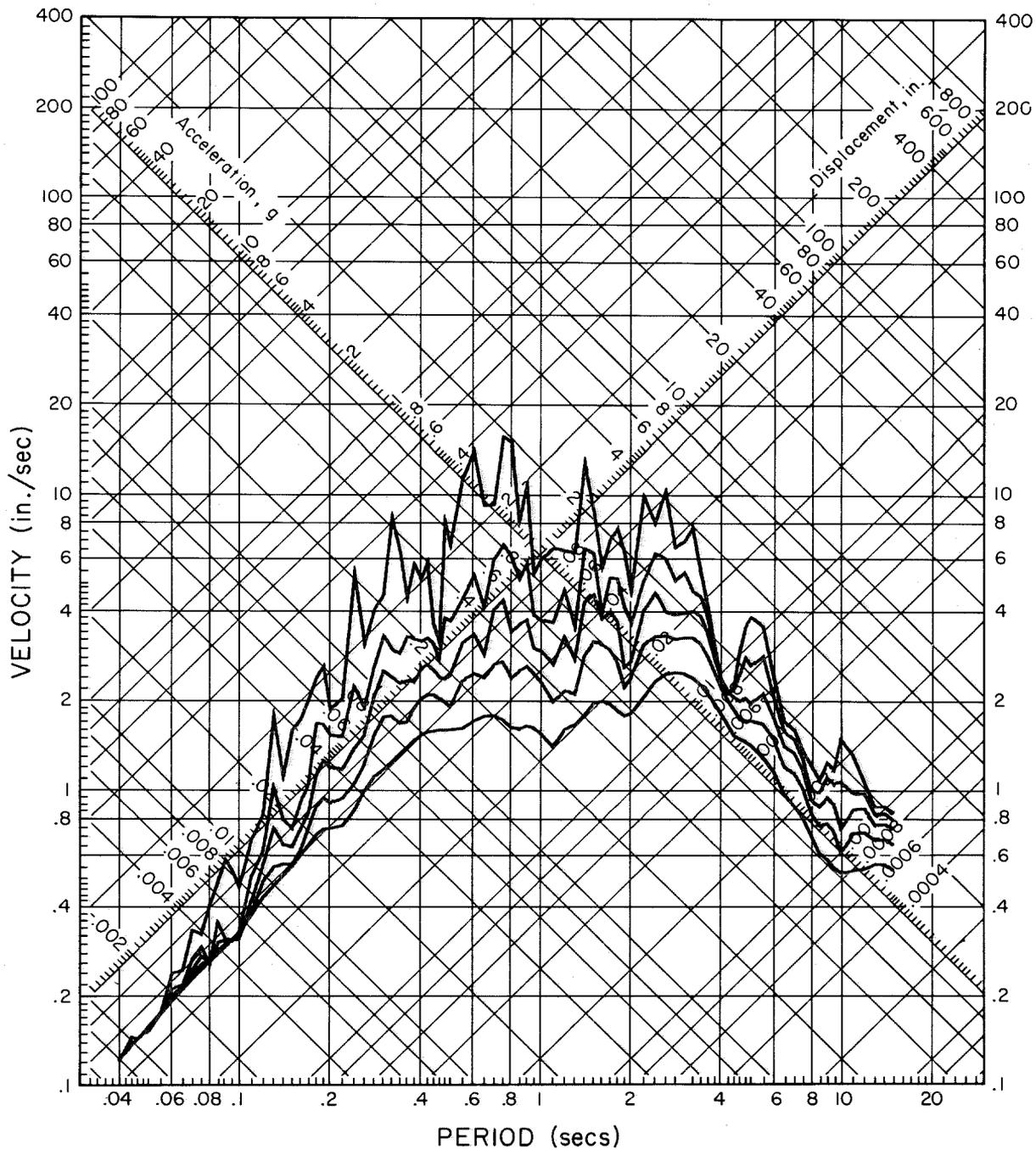


RESPONSE SPECTRUM

HOLLISTER EARTHQUAKE APR 8, 1961 - 2323 PST

IIIA018 61.001.0 HOLLISTER CITY HALL COMP VERT

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



HOLLISTER EARTHQUAKE APR 8, 1961 - 2323 PST

IIIIA018 61.001.0 HOLLISTER CITY HALL COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

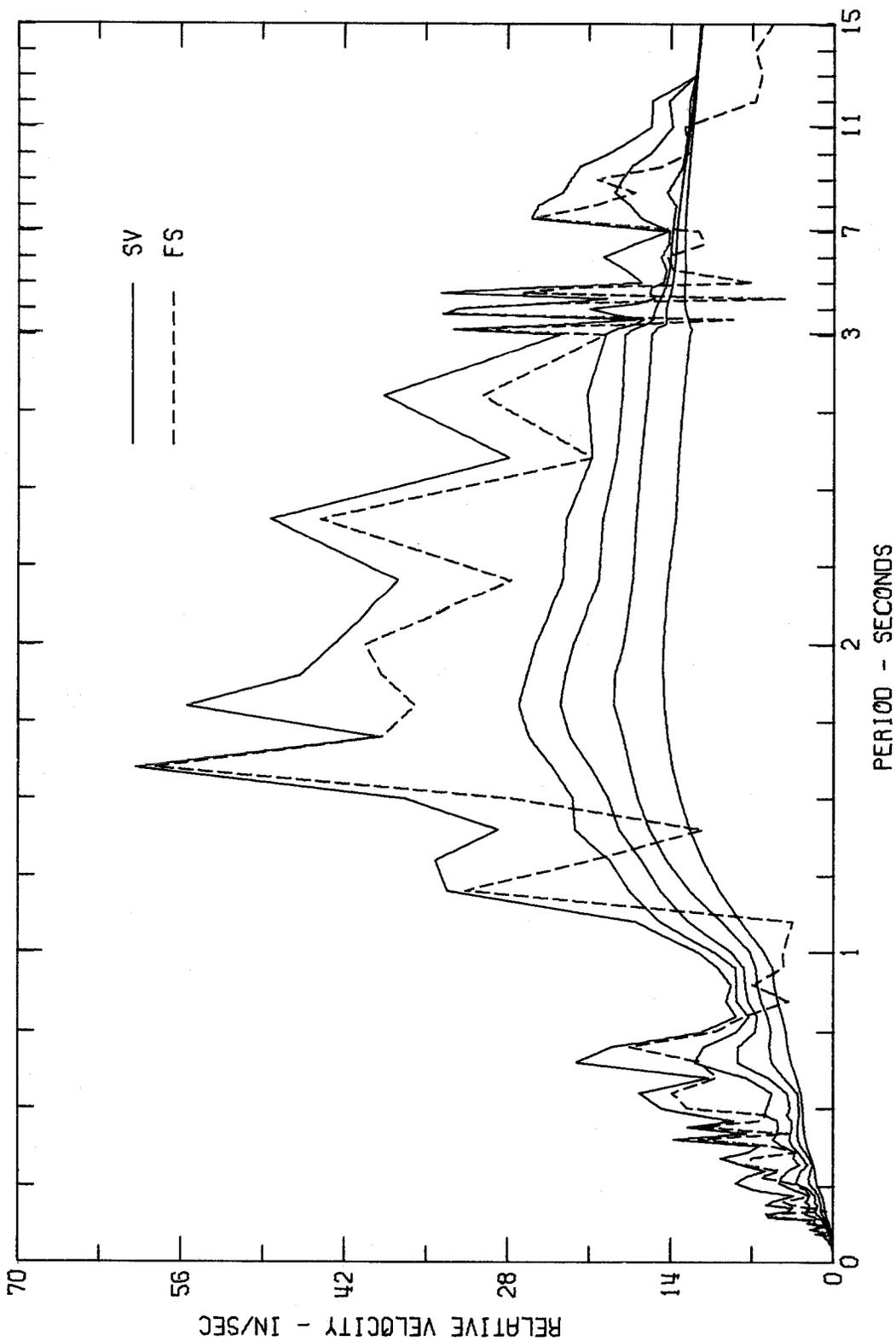
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IIIA018 61.001.0 HOLLISTER CITY HALL COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
BORREGO MOUNTAIN EARTHQUAKE APR 8, 1968 - 1830 PST
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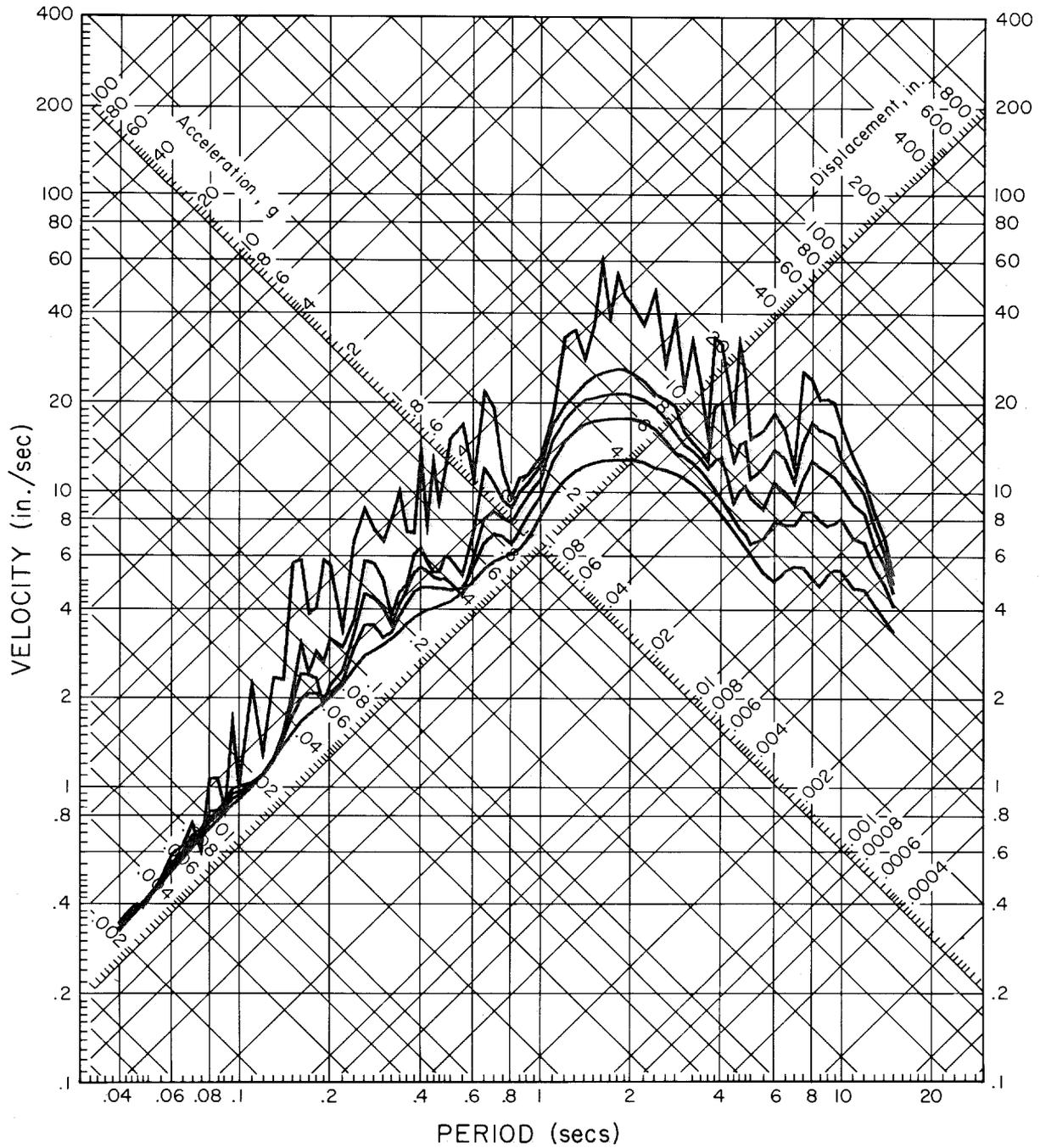


RESPONSE SPECTRUM

BORREGO MOUNTAIN EARTHQUAKE APR 8, 1968 - 1830 PST

III1A019 68.005.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP 500W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



BORREGO MOUNTAIN EARTHQUAKE APR 8, 1968 - 1830 PST

IIIA019 68.C05.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP SOON

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

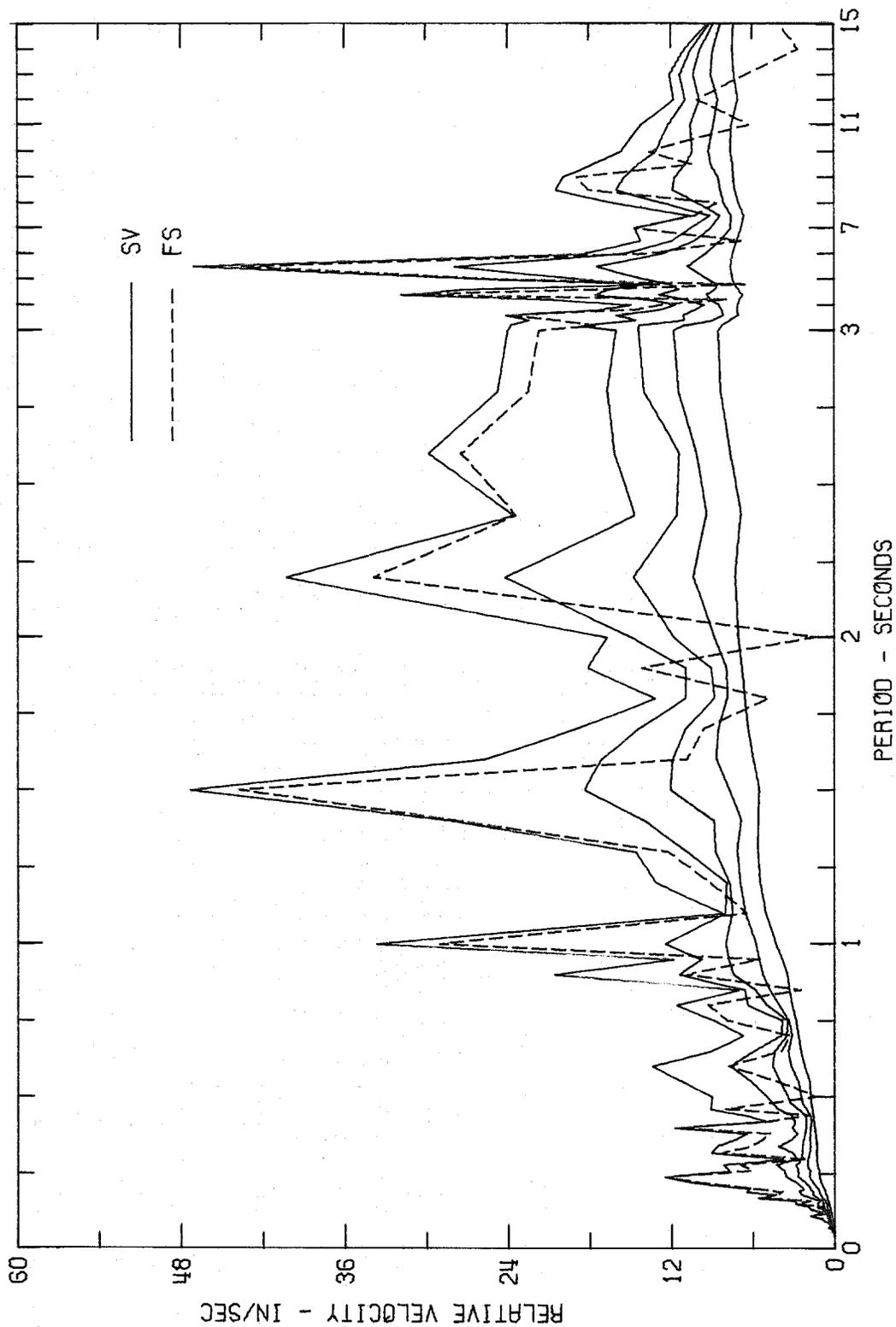
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0.040	472-4	219-5	509-4	140-3	344-3	211-5	346-4	135-3	332-3	211-5	337-4	135-3	332-3	210-5	328-4	134-3	330-3	208-5	335-4	133-3	326-3							
0.042	231-4	247-5	502-4	143-3	369-3	235-5	383-4	136-3	352-3	234-5	373-4	136-3	350-3	232-5	368-4	135-3	348-3	230-5	371-4	134-3	345-3							
0.044	113-4	271-5	527-4	141-3	387-3	261-5	419-4	138-3	373-3	258-5	402-4	136-3	369-3	256-5	407-4	136-3	366-3	254-5	410-4	134-3	363-3							
0.046	168-4	293-5	517-4	141-3	401-3	282-5	473-4	137-3	386-3	283-5	453-4	137-3	386-3	282-5	452-4	136-3	385-3	279-5	453-4	135-3	381-3							
0.048	191-4	297-5	501-4	131-3	389-3	309-5	528-4	137-3	405-3	309-5	513-4	137-3	404-3	309-5	504-4	137-3	404-3	305-5	499-4	136-3	400-3							
0.050	796-4	329-5	104-3	134-3	414-3	337-5	598-4	138-3	424-3	339-5	574-4	138-3	426-3	337-5	560-4	138-3	424-3	333-5	548-4	137-3	418-3							
0.055	601-4	424-5	102-3	143-3	485-3	420-5	665-4	142-3	480-3	418-5	709-4	141-3	478-3	416-5	708-4	141-3	475-3	409-5	684-4	139-3	468-3							
0.060	111-3	565-5	199-3	160-3	592-3	530-5	116-3	150-3	555-3	517-5	997-4	147-3	542-3	507-5	905-4	144-3	531-3	495-5	840-4	141-3	518-3							
0.065	260-3	651-5	267-3	157-3	629-3	620-5	109-3	150-3	599-3	620-5	112-3	150-3	599-3	610-5	109-3	147-3	589-3	589-5	100-3	144-3	569-3							
0.070	304-3	839-5	322-3	175-3	753-3	759-5	154-3	158-3	681-3	741-5	139-3	154-3	665-3	719-5	128-3	151-3	646-3	692-5	116-3	146-3	621-3							
0.075	431-3	723-5	434-3	131-3	606-3	859-5	176-3	156-3	719-3	862-5	170-3	156-3	704-3	840-5	144-3	153-3	704-3	805-5	130-3	147-3	674-3							
0.080	620-3	136-4	641-3	217-3	106-2	104-4	263-3	168-3	824-3	998-5	203-3	159-3	784-3	965-5	167-3	154-3	758-3	921-5	143-3	148-3	723-3							
0.085	683-3	145-4	623-3	205-3	107-2	112-4	243-3	159-3	832-3	111-4	221-3	158-3	822-3	108-4	193-3	155-3	805-3	104-4	156-3	149-3	770-3							
0.090	458-3	118-4	523-3	150-3	829-3	128-4	278-3	162-3	897-3	126-4	254-3	160-3	883-3	122-4	218-3	156-3	858-3	117-4	169-3	150-3	821-3							
0.095	142-2	251-4	155-2	284-3	166-2	149-4	354-3	169-3	986-3	142-4	298-3	162-3	945-3	137-4	245-3	155-3	908-3	131-4	186-3	150-3	868-3							
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0.110	170-2	386-4	200-2	326-3	220-2	181-4	510-3	153-3	130-2	212-4	703-3	151-3	111-2	209-4	505-3	149-3	109-2	211-4	295-3	153-3	111-2							
0.120	585-3	249-4	956-3	293-3	234-2	257-4	788-3	155-3	124-2	254-4	579-3	154-3	123-2	259-4	474-3	158-3	125-2	256-4	347-3	158-3	123-2							
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0.140	336-2	514-4	198-2	268-3	230-2	338-4	493-3	225-3	208-2	456-4	106-2	207-3	191-2	415-4	740-3	189-3	174-2	368-4	546-3	169-3	152-2							
0.150	526-2	137-3	560-2	623-3	574-2	496-4	159-2	225-3	243-2	645-4	157-2	227-3	238-2	560-4	105-2	201-3	198-2	425-4	636-3	174-3	185-2							
0.160	539-2	149-3	577-2	598-3	588-2	658-4	236-2	233-3	243-2	624-4	143-2	211-3	233-2	595-4	104-2	188-3	207-2	477-4	705-3	172-3	185-2							
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0.180	190-2	116-3	350-2	368-3	407-2	824-4	197-2	227-3	264-2	578-4	134-2	211-3	233-2	595-4	104-2	188-3	207-2	477-4	705-3	172-3	185-2							
0.190	368-2	177-3	582-2	503-3	588-2	800-4	205-2	227-3	264-2	645-4	157-2	227-3	238-2	560-4	105-2	201-3	198-2	425-4	636-3	174-3	185-2							
0.200	426-2	180-3	338-2	253-3	342-2	104-3	203-2	219-3	297-2	869-4	155-2	183-3	248-2	793-4	124-2	168-3	226-2	775-4	946-3	170-3	221-2							
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0.240	233-2	264-3	842-2	549-3	878-2	242-3	464-2	369-3	586-2	187-3	320-2	281-3	453-2	146-3	211-2	221-3	354-2	115-3	143-2	180-3	278-2							
0.260	627-2	332-3	747-2	434-3	746-2	256-3	444-2	333-3	574-2	194-3	300-2	256-3	436-2	157-3	208-2	205-3	353-2	129-3	154-2	177-3	290-2							
0.300	457-2	325-3	583-2	370-3	682-2	242-3	389-2	275-3	507-2	194-3	280-2	219-3	406-2	153-3	195-2	179-3	322-2	145-3	159-2	172-3	303-2							
0.320	754-2	415-3	790-2	415-3	816-2	195-3	288-2	194-3	383-2	181-3	221-2	180-3	355-2	170-3	174-2	170-3	335-2	162-3	187-2	168-3	336-2							
0.340	695-2	548-3	971-2	485-3	101-1	250-3	343-2	220-3	462-2	225-3	257-2	199-3	417-2	206-3	208-2	184-3	382-2	182-3	187-2	168-3	336-2							
0.360	317-2	422-3	721-2	333-3	736-2	280-3	327-2	221-3	489-2	270-3	299-2	214-3	471-2	242-3	241-2	195-3	423-2	206-3	209-2	169-3	359-2							
0.380	539-2	441-3	632-2	312-3	729-2	373-3	447-2	264-3	617-2	324-3	353-2	230-3	537-2	208-3	283-2	198-3	460-2	228-3	243-2	166-3	389-2							
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0.420	385-2	520-3	742-2	301-3	778-2	390-3	487-2	226-3	583-2	361-3	367-2	210-3	541-2	319-3	309-2	188-3	478-2	267-3	251-2	162-3	400-2							
0.440	114-1	895-3	126-1	472-3	127-1	378-3	472-2	199-3	539-2	364-3	353-2	193-3	520-2	333-3	306-2	178-3	476-2	284-3	255-2	158-3	436-2							
0.460	621-2	676-3	852-2	327-3	924-2	395-3	482-2	191-3	540-2	371-3	362-2	181-3	510-2	346-3	299-2	169-3	473-2	303-3	260-2	153-3	415-2							
0.480	578-2	902-3	119-1	400-3	118-1	463-3	600-2	206-3	607-2	391-3	398-2	173-3	512-2	360-3	292-2	162-3	471-2	322-3	264-2	149-3	421-2							
0.500	126-1	121-2	148-1	497-3	152-1	476-3	574-2	194-3	599-2	395-3	371-2	162-3	497-2	372-3	296-2	154-3	468-2	341-3	266-2	146-3	428-2							
0.550	138-1	149-2	167-1	506-3	171-1	462-3	527-2	156-3	528-2	392-3	399-2	133-3	448-2	416-3	308-2	142-3	475-2	401-3	281-2	141-3	459-2							
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0.650	114-1	227-2	221-1	550-3	219-1	124-2	119-1	302-3	120-1	841-3	825-2	204-3	813-2	696-3	530-2	170-3	672-2	571-3	363-2	144-3	582-2							
0.700	175-1	215-2	190-1	449-3	193-1	120-2	111-1	250-3	108-1	959-3	819-2	201-3	861-2	806-3	554-2	170-3	723-2	652-3	395-2	142-3	586-2							

IIIA019 68-005.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP SOOH

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT					DAMPING = 2 PERCENT					DAMPING = 5 PERCENT					DAMPING = 10 PERCENT					DAMPING = 20 PERCENT						
	FS	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA
0.75	101-1	140-2	113-1	255-3	117-1	112-2	833-2	204-3	941-2	977-3	671-2	178-3	819-2	845-3	536-2	155-3	708-2	721-3	408-2	137-3	604-2						
0.80	762-2	122-2	832-2	196-3	965-2	113-2	723-2	181-3	892-2	101-2	655-2	162-3	793-2	850-3	565-2	137-3	668-2	787-3	442-2	132-3	618-2						
0.85	386-2	152-2	925-2	215-3	112-1	136-2	832-2	193-3	100-1	119-2	735-2	169-3	884-2	100-2	622-2	143-3	742-2	872-3	480-2	129-3	644-2						
0.90	695-2	164-2	878-2	207-3	114-1	153-2	833-2	194-3	107-1	138-2	759-2	175-3	966-2	118-2	655-2	150-3	826-2	990-3	510-2	131-3	691-2						
0.95	430-2	188-2	998-2	213-3	124-1	175-2	842-2	198-3	115-1	158-2	769-2	180-3	104-1	136-2	669-2	156-3	902-2	114-2	525-2	136-3	758-2						
1.00	435-2	211-2	116-1	216-3	133-1	196-2	102-1	201-3	123-1	177-2	878-2	182-3	111-1	155-2	716-2	161-3	976-2	133-2	597-2	143-3	836-2						
1.10	348-2	328-2	170-1	277-3	187-1	299-2	149-1	253-3	171-1	265-2	125-1	225-3	151-1	224-2	965-2	192-3	128-1	173-2	799-2	156-3	989-2						
1.20	316-1	642-2	332-1	456-3	336-1	378-2	176-1	269-3	198-1	338-2	148-1	241-3	177-1	285-2	123-1	206-3	149-1	211-2	982-2	161-3	110-1						
1.30	208-1	733-2	342-1	443-3	354-1	447-2	192-1	271-3	216-1	401-2	165-1	243-3	193-1	336-2	143-1	207-3	162-1	245-2	112-1	160-3	118-1						
1.40	112-1	634-2	287-1	331-3	384-1	523-2	222-1	273-3	234-1	460-2	184-1	241-3	206-1	381-2	158-1	202-3	171-1	275-2	123-1	154-3	123-1						
1.50	277-1	874-2	369-1	397-3	366-1	592-2	224-1	269-3	248-1	500-2	193-1	228-3	209-1	419-2	168-1	193-3	175-1	303-2	132-1	146-3	126-1						
1.60	582-1	153-1	599-1	613-3	603-1	648-2	241-1	259-3	254-1	544-2	208-1	218-3	213-1	452-2	175-1	184-3	177-1	328-2	138-1	140-3	128-1						
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1.80	359-1	157-1	555-1	497-3	549-1	753-2	270-1	238-3	263-1	621-2	234-1	197-3	217-1	514-2	189-1	165-3	179-1	372-2	145-1	125-3	129-1						
1.90	388-1	139-1	457-1	396-3	462-1	788-2	263-1	223-3	260-1	657-2	230-1	187-3	217-1	543-2	187-1	156-3	179-1	392-2	146-1	118-3	129-1						
2.00	402-1	137-1	429-1	352-3	433-1	812-2	255-1	207-3	255-1	679-2	223-1	174-3	213-1	569-2	180-1	148-3	179-1	413-2	146-1	112-3	129-1						
2.20	277-1	129-1	373-1	273-3	370-1	838-2	232-1	177-3	239-1	723-2	201-1	153-3	206-1	610-2	172-1	132-3	174-1	446-2	142-1	102-3	127-1						
2.40	441-1	183-1	484-1	325-3	480-1	828-2	229-1	147-3	216-1	745-2	198-1	133-3	195-1	630-2	169-1	114-3	165-1	465-2	135-1	916-4	121-1						
2.60	207-1	113-1	278-1	171-3	273-1	858-2	207-1	130-3	207-1	741-2	186-1	112-3	179-1	626-2	165-1	977-4	151-1	496-2	133-1	851-4	119-1						
2.80	302-1	174-1	387-1	227-3	391-1	876-2	212-1	114-3	196-1	716-2	181-1	939-4	160-1	613-2	160-1	839-4	137-1	520-2	129-1	787-4	116-1						
3.00	196-1	109-1	234-1	124-3	228-1	772-2	195-1	757-4	161-1	697-2	179-1	800-4	146-1	634-2	156-1	759-4	132-1	537-2	123-1	723-4	112-1						
3.20	328-1	167-1	327-1	166-3	327-1	757-2	186-1	668-4	139-1	709-2	160-1	634-4	131-1	646-2	144-1	601-4	119-1	551-2	124-1	661-4	107-1						
3.40	173-1	127-1	230-1	113-3	236-1	754-2	171-1	668-4	148-1	709-2	172-1	716-4	139-1	645-2	152-1	679-4	126-1	547-2	122-1	661-4	101-1						
3.60	862-2	914-2	169-1	124-3	159-1	735-2	163-1	581-4	128-1	695-2	155-1	554-4	121-1	638-2	143-1	529-4	111-1	550-2	125-1	546-4	960-2						
3.80	335-1	203-1	335-1	143-3	335-1	119-1	192-1	846-4	197-1	784-2	155-1	558-4	129-1	624-2	144-1	465-4	103-1	545-2	126-1	495-4	901-2						
4.00	320-1	203-1	321-1	130-3	320-1	129-1	210-1	830-4	203-1	844-2	153-1	542-4	132-1	606-2	144-1	409-4	952-2	538-2	128-1	449-4	845-2						
4.20	243-1	162-1	246-1	944-4	243-1	106-1	168-1	618-4	159-1	749-2	151-1	437-4	112-1	588-2	143-1	361-4	880-2	529-2	128-1	409-4	792-2						
4.40	418-2	126-1	194-1	670-4	181-1	902-2	154-1	477-4	128-1	650-2	149-1	346-4	929-2	571-2	141-1	321-4	816-2	520-2	128-1	374-4	742-2						
4.60	266-1	236-1	338-1	114-3	322-1	107-1	158-1	520-4	146-1	749-2	147-1	364-4	102-1	556-2	140-1	287-4	760-2	511-2	128-1	343-4	698-2						
4.80	228-1	193-1	263-1	857-4	252-1	114-1	157-1	510-4	150-1	812-2	145-1	362-4	106-1	557-2	139-1	258-4	729-2	502-2	128-1	316-4	657-2						
5.00	699-2	122-1	164-1	501-4	154-1	894-2	146-1	366-4	112-1	768-2	143-1	316-4	965-2	538-2	138-1	234-4	676-2	494-2	128-1	293-4	620-2						
5.50	138-1	143-1	179-1	486-4	164-1	107-1	143-1	363-4	122-1	774-2	141-1	263-4	885-2	613-2	137-1	211-4	700-2	474-2	127-1	245-4	541-2						
6.00	143-1	179-1	198-1	508-4	187-1	134-1	148-1	383-4	141-1	104-1	140-1	296-4	108-1	763-2	136-1	220-4	799-2	482-2	128-1	209-4	504-2						
6.50	112-1	170-1	171-1	413-4	165-1	136-1	141-1	329-4	131-1	105-1	139-1	256-4	101-1	809-2	135-1	200-4	782-2	565-2	128-1	181-4	546-2						
7.00	116-1	138-1	142-1	288-4	123-1	121-1	140-1	254-4	109-1	102-1	138-1	215-4	919-2	871-2	134-1	185-4	782-2	631-2	127-1	158-4	567-2						
7.50	258-1	308-1	260-1	560-4	258-1	179-1	165-1	326-4	150-1	134-1	137-1	246-4	113-1	103-1	134-1	193-4	866-2	672-2	127-1	139-4	563-2						
8.00	205-1	310-1	254-1	496-4	243-1	222-1	175-1	355-4	174-1	164-1	135-1	265-4	129-1	110-1	132-1	183-4	870-2	661-2	126-1	123-4	519-2						
8.50	171-1	282-1	232-1	399-4	208-1	222-1	188-1	315-4	164-1	166-1	143-1	237-4	123-1	110-1	131-1	159-4	813-2	661-2	126-1	110-4	488-2						
9.00	203-1	301-1	226-1	380-4	210-1	231-1	181-1	292-4	161-1	170-1	136-1	215-4	113-1	111-1	129-1	143-4	778-2	758-2	125-1	112-4	529-2						
9.50	148-1	307-1	218-1	348-4	203-1	236-1	174-1	268-4	156-1	172-1	130-1	196-4	113-1	119-1	128-1	142-4	792-2	833-2	124-1	113-4	551-2						
10.00	125-1	275-1	193-1	281-4	173-1	211-1	157-1	216-4	133-1	169-1	128-1	175-4	106-1	131-1	126-1	141-4	823-2	875-2	123-1	110-4	549-2						
11.00	128-1	233-1	156-1	197-4	133-1	197-1	138-1	167-4	113-1	161-1	124-1	137-4	919-2	123-1	123-1	111-4	706-2	844-2	121-1	937-5	482-2						
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14.00	673-2	158-1	115-1	827-5	711-2	140-1	115-1	737-5	631-2	127-1	116-1	686-5	573-2	109-1	116-1	640-5	492-2	839-2	115-1	584-5	376-2						
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RELATIVE VELOCITY RESPONSE SPECTRUM
BORREGO MOUNTAIN EARTHQUAKE APR 8, 1968 - 1830 PST
111A019 68.005.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP S90W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

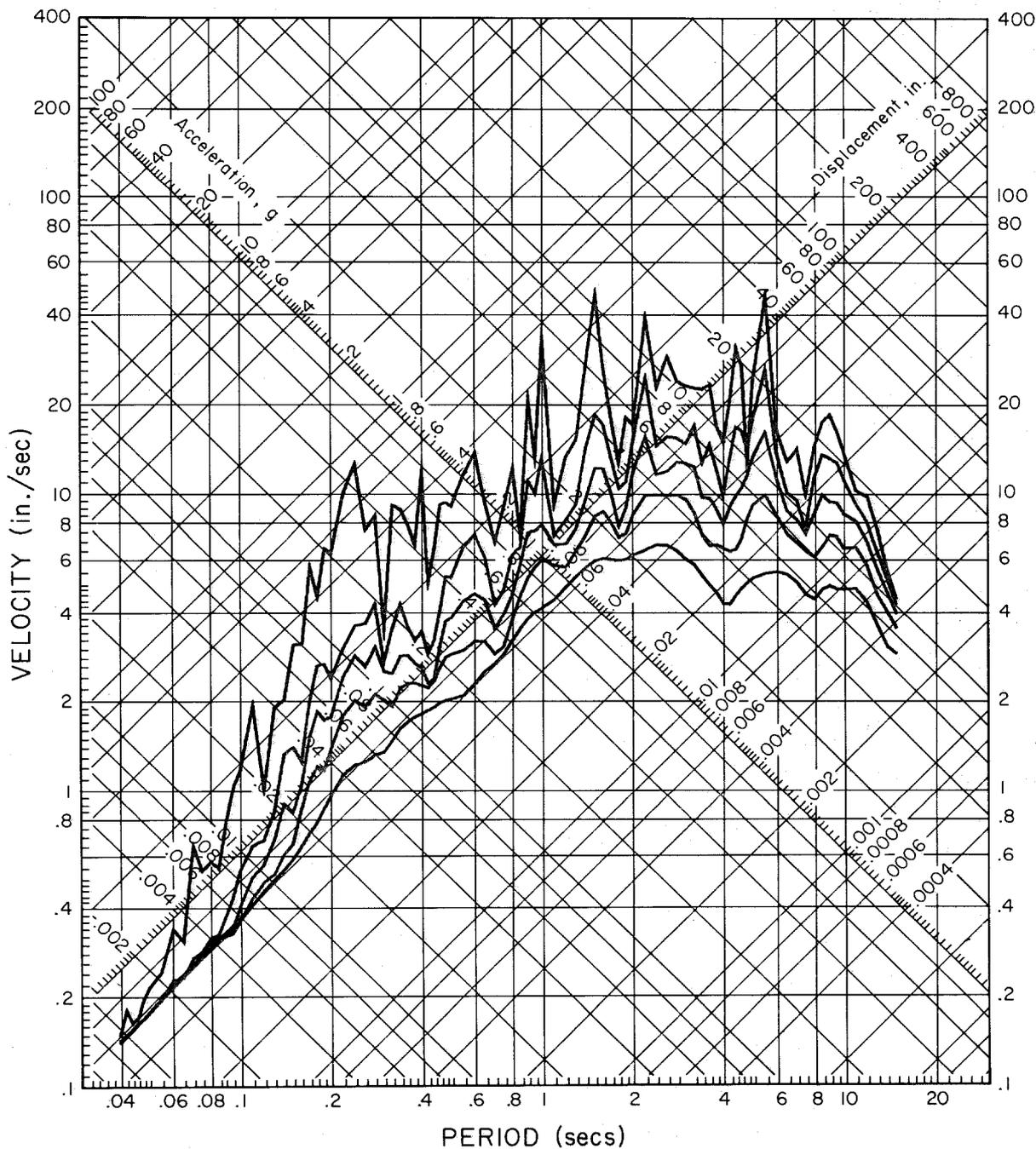


RESPONSE SPECTRUM

BORREGO MOUNTAIN EARTHQUAKE APR 8, 1968 - 1830 PST

IIIA019 68.005.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP S90W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



BORREGG MOUNTAIN EARTHQUAKE APR 8, 1968 - 1830 PST
IIIA019 68.005.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP S90W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

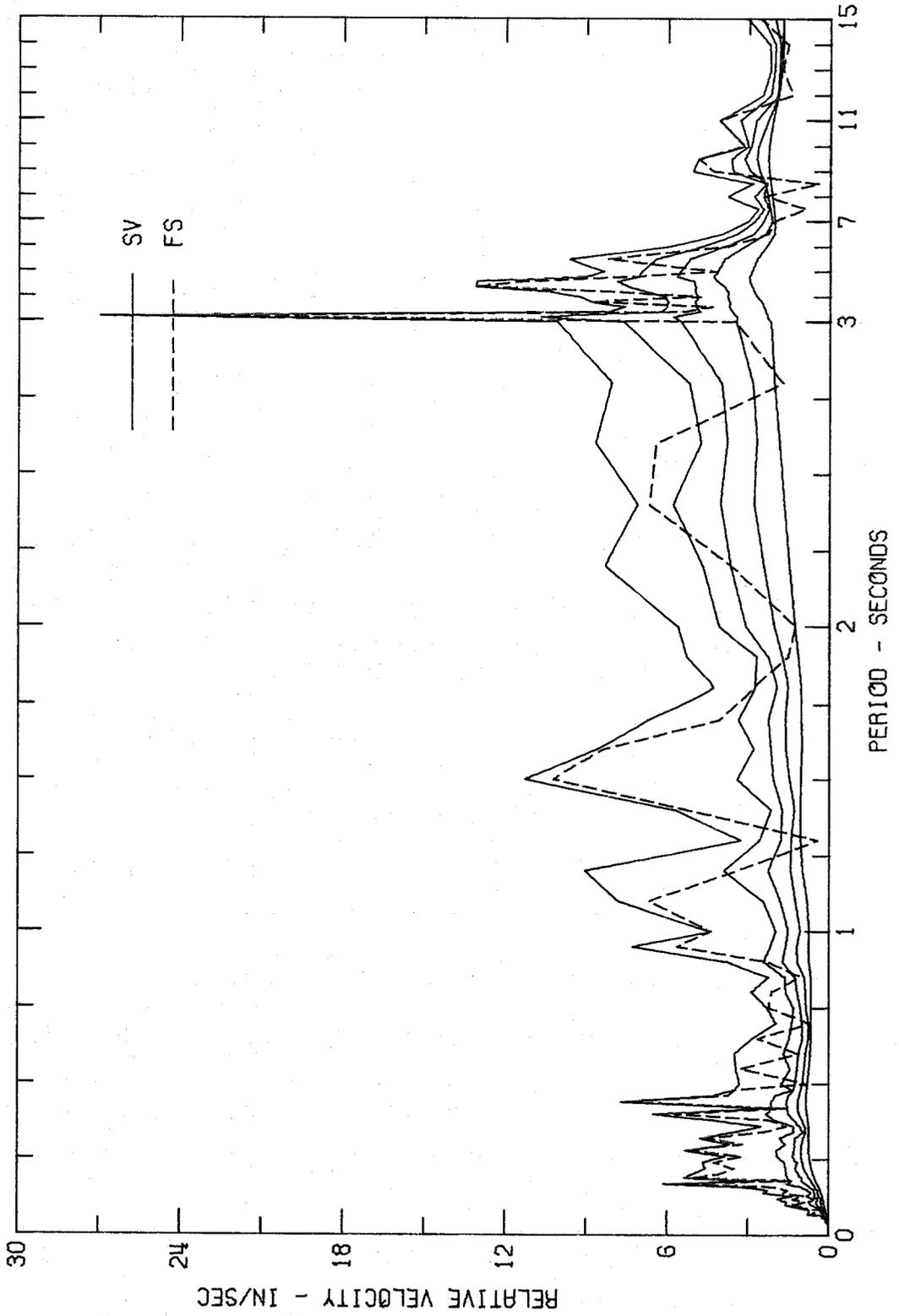
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0.040	157-4	963-6	343-6	616-4	151-3	926-6	213-4	591-4	145-3	918-6	214-4	586-4	144-3	913-6	208-4	584-4	143-3	908-6	214-4	583-4	142-3				
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0.044	242-4	116-5	447-4	613-4	165-3	110-5	278-4	585-4	158-3	110-5	273-4	586-4	158-3	110-5	269-4	585-4	158-3	110-5	265-4	584-4	157-3				
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IIIA019 68.005.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP S90W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT				DAMPING = 2 PERCENT				DAMPING = 5 PERCENT				DAMPING = 10 PERCENT				DAMPING = 20 PERCENT				
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RELATIVE VELOCITY RESPONSE SPECTRUM
BORREGO MOUNTAIN EARTHQUAKE APR 8, 1968 - 1830 PST
IIIA019 68.005.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP VERT
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

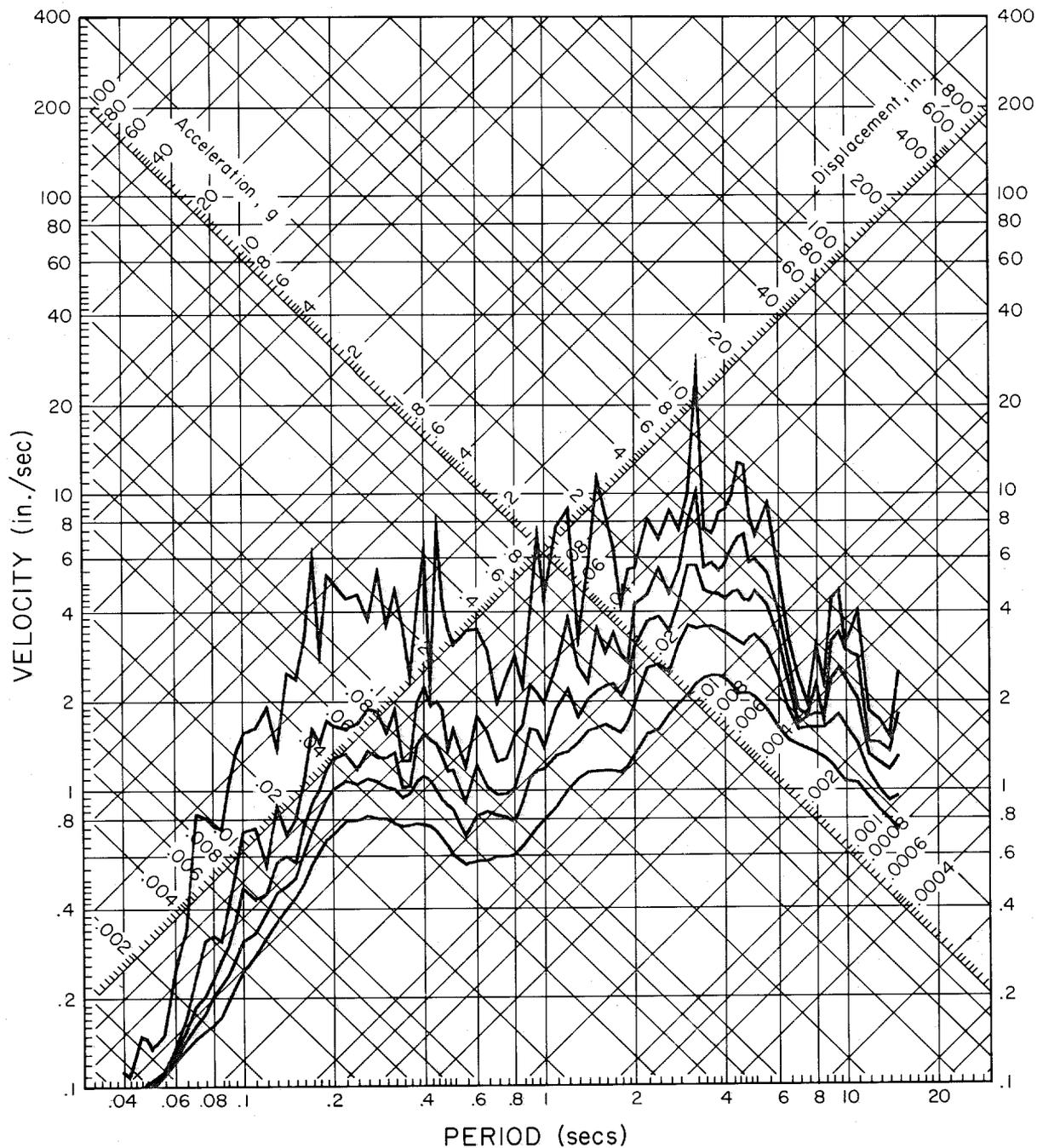


RESPONSE SPECTRUM

BORREGO MOUNTAIN EARTHQUAKE APR 8, 1968 - 1830 PST

IIIAQ19 68.005.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP VERT

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



BORREGO MOUNTAIN EARTHQUAKE APR 8, 1968 - 1830 PST

IIIA019 68.005.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

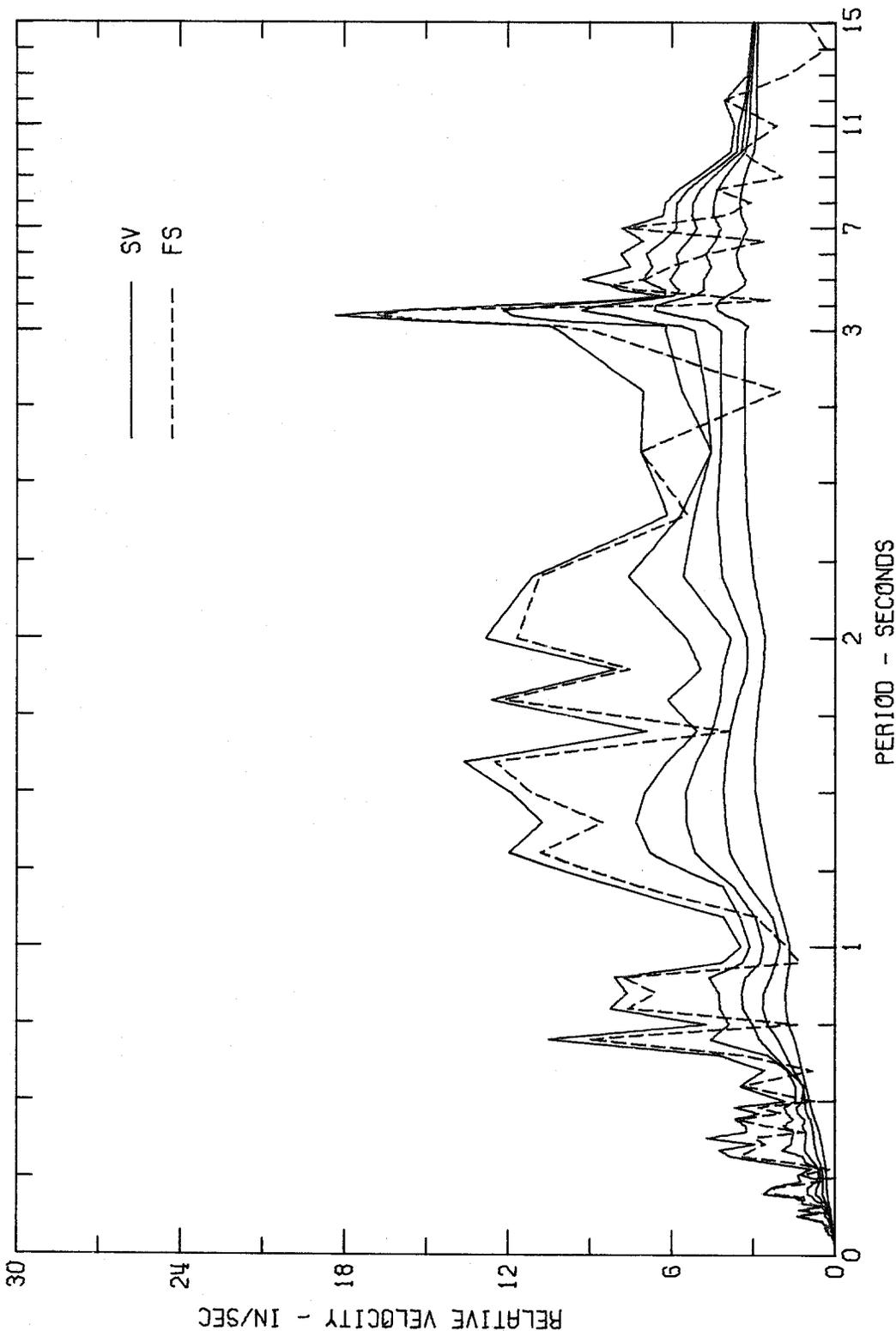
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IIIA019 68.005.0 EL CENTRO SITE IMPERIAL VALLEY IRRIGATION DISTRICT COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
BORREGO MOUNTAIN EARTHQUAKE APR 8, 1968 - 1830 PST
IIIA020 68.007.0 SAN DIEGO LIGHT AND POWER BLDG COMP SOOW
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

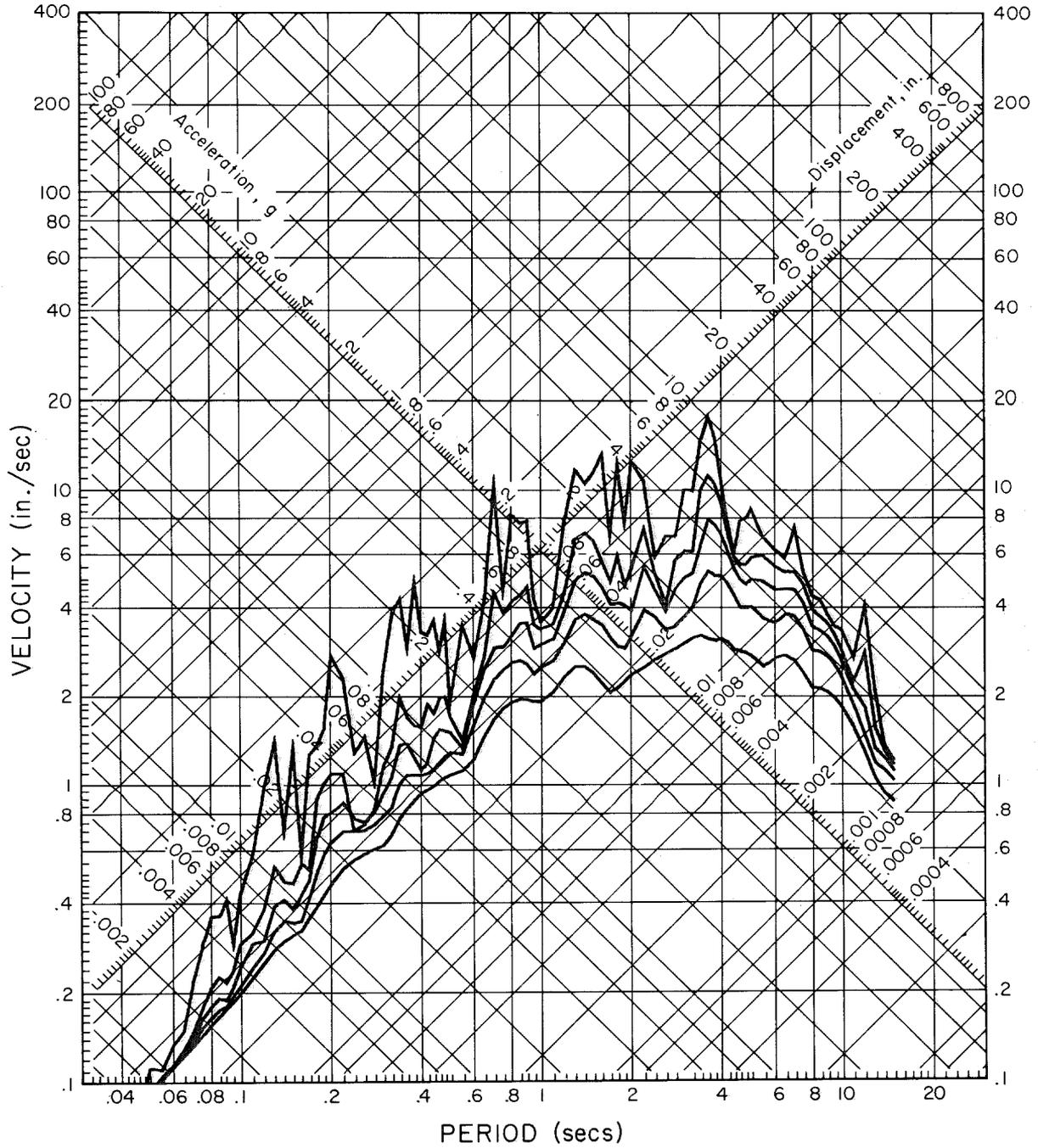


RESPONSE SPECTRUM

BORREGO MOUNTAIN EARTHQUAKE APR 8, 1968 - 1830 PST

IIIA020 68.007.0 SAN DIEGO LIGHT AND POWER BLDG COMP SOOW

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



BORREGO MOUNTAIN EARTHQUAKE APR 8, 1968 - 1830 PST
IIIIA020 68.007.0 SAN DIEGO LIGHT AND POWER BLDG COMP SOOH

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

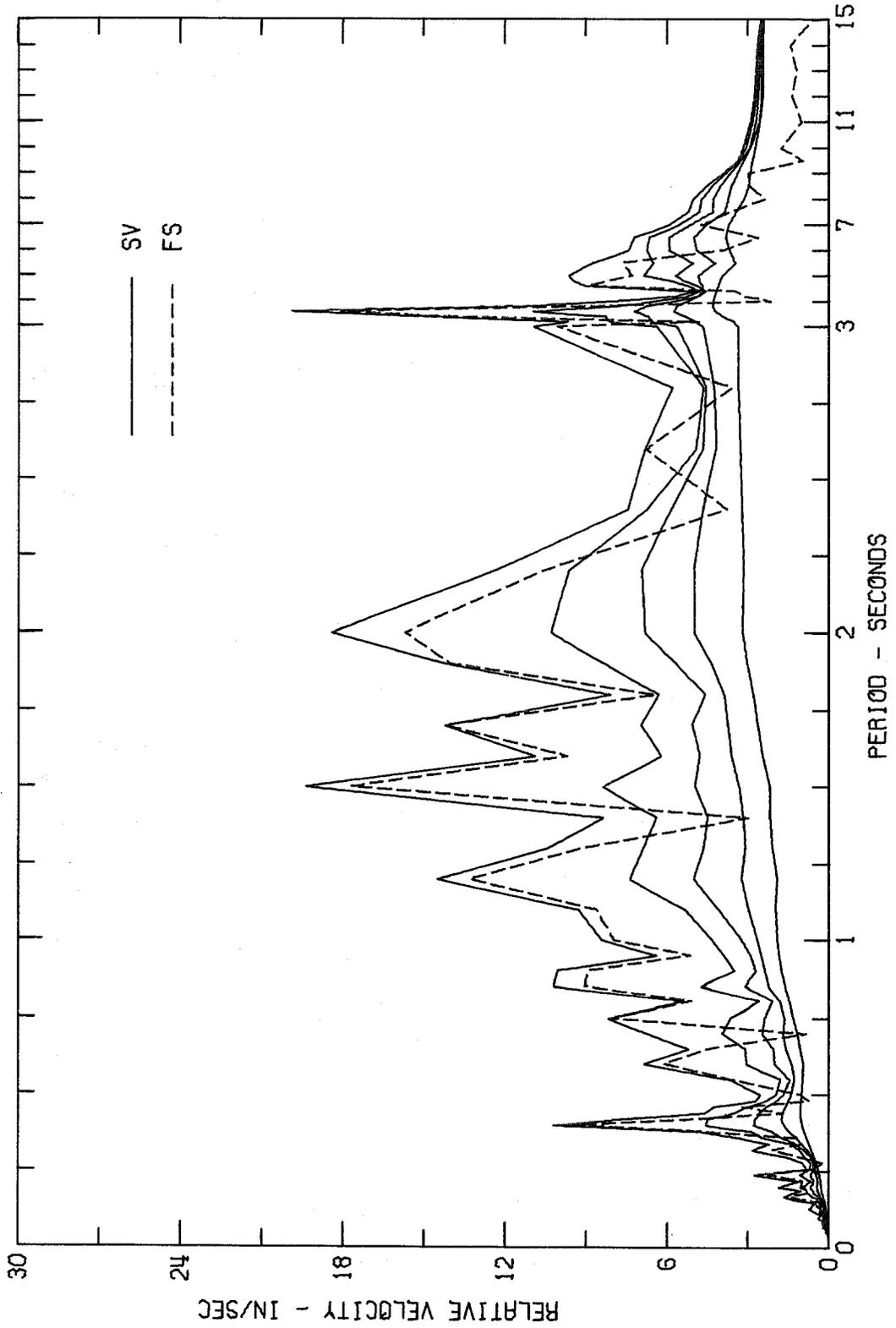
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O.040	559-5	498-6	222-4	317-4	780-4	499-6	140-4	319-4	784-4	489-6	118-4	313-4	769-4	483-6	107-4	309-4	759-4	477-6	996-5	305-4	749-4	477-6	996-5	305-4	749-4	477-6	996-5	305-4	749-4
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O.400	112-2	216-3	328-2	138-3	340-2	102-3	151-2	654-4	161-2	733-4	106-2	471-4	115-2	701-4	788-3	452-4	110-2	602-4	573-3	398-4	946-3	602-4	573-3	398-4	946-3	602-4	573-3	398-4	946-3
O.420	261-2	222-3	328-2	128-3	332-2	128-3	190-2	746-4	192-2	818-4	120-2	476-4	122-2	748-4	838-3	438-4	112-2	657-4	647-3	397-4	983-3	657-4	647-3	397-4	983-3	657-4	647-3	397-4	983-3
O.440	353-2	261-3	368-2	138-3	373-2	125-3	175-2	662-4	179-2	102-3	110-2	540-4	146-2	811-4	890-3	436-4	115-2	710-4	730-3	392-4	101-2	710-4	730-3	392-4	101-2	710-4	730-3	392-4	101-2
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111A020 68.007.0 SAN DIEGO LIGHT AND POWER BLDG COMP SOOH

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT				DAMPING = 2 PERCENT				DAMPING = 5 PERCENT				DAMPING = 10 PERCENT				DAMPING = 20 PERCENT				
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RELATIVE VELOCITY RESPONSE SPECTRUM
BORREGO MOUNTAIN EARTHQUAKE APR 8, 1968 - 1830 PST
1111A020 68.007.0 SAN DIEGO LIGHT AND POWER BLDG COMP N90E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

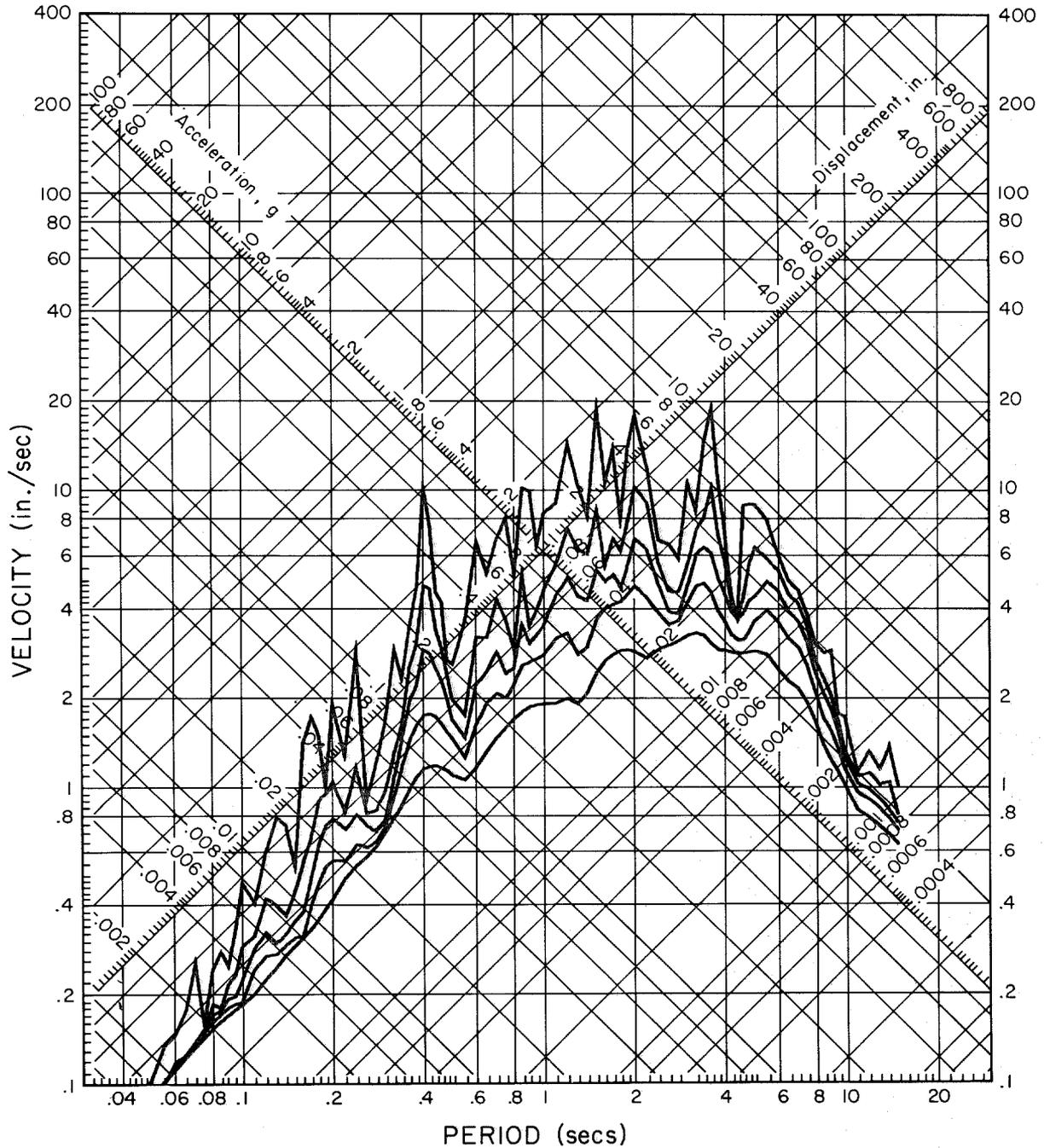


RESPONSE SPECTRUM

BORREGO MOUNTAIN EARTHQUAKE APR 8, 1968 - 1830 PST

111A020 68.007.0 SAN DIEGO LIGHT AND POWER BLDG COMP N90E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



BORREGO MOUNTAIN EARTHQUAKE APR 8, 1968 - 1830 PST
IIIA020 68.007.0 SAN DIEGO LIGHT AND POWER BLDG COMP N90E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

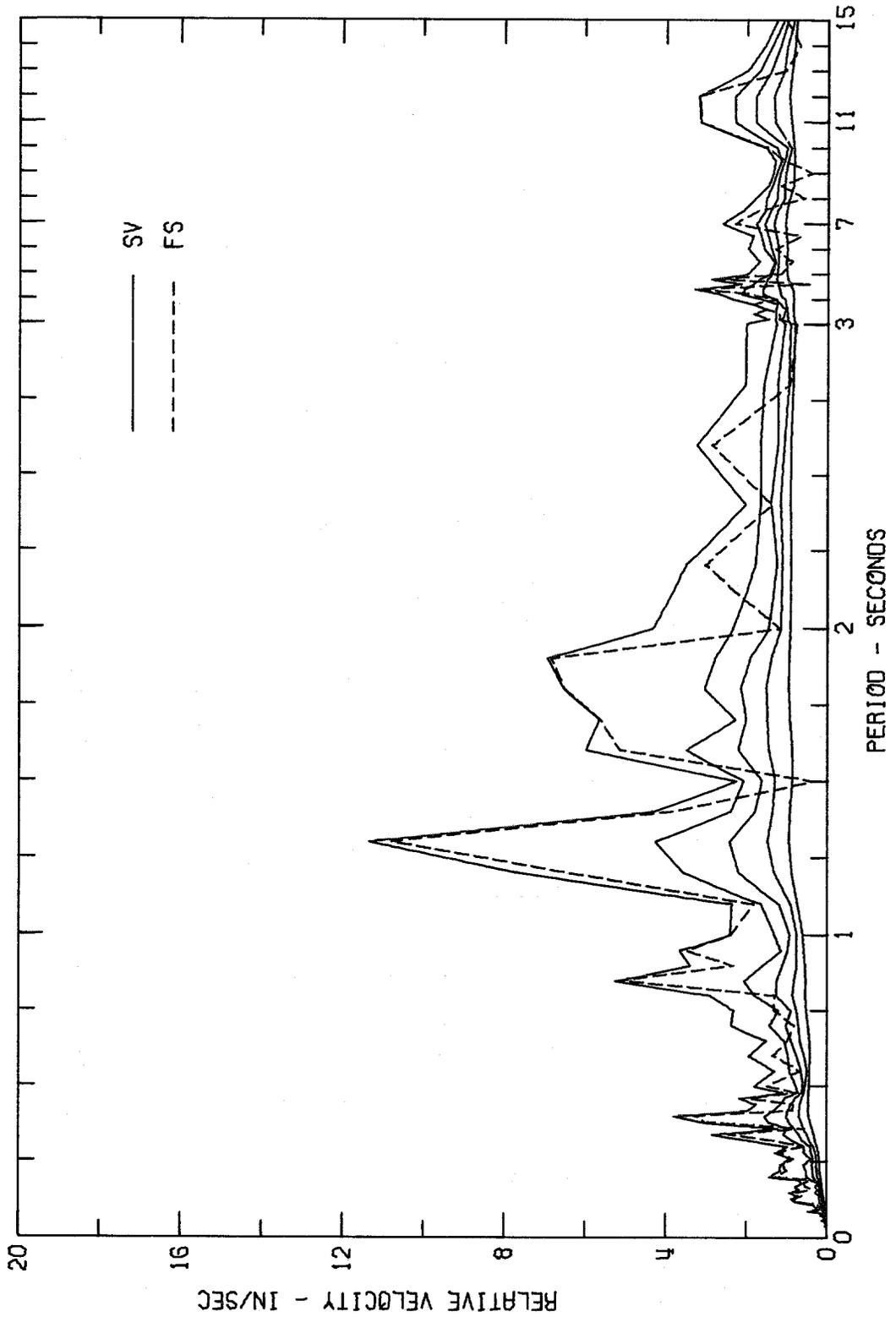
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I11A020 68.007.0 SAN DIEGO LIGHT AND POWER BLDG COMP N90E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT			DAMPING = 2 PERCENT			DAMPING = 5 PERCENT			DAMPING = 10 PERCENT			DAMPING = 20 PERCENT						
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9.00	298-2	428-2	391-2	540-5	299-2	299-2	381-2	378-5	208-2	268-2	365-2	345-5	187-2	309-5	159-2	182-2	290-2	337-5	127-2
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RELATIVE VELOCITY RESPONSE SPECTRUM
BORREGO MOUNTAIN EARTHQUAKE APR 8, 1968 - 1830 PST
1111A020 68.007.0 SAN DIEGO LIGHT AND POWER BLDG COMP VERT
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

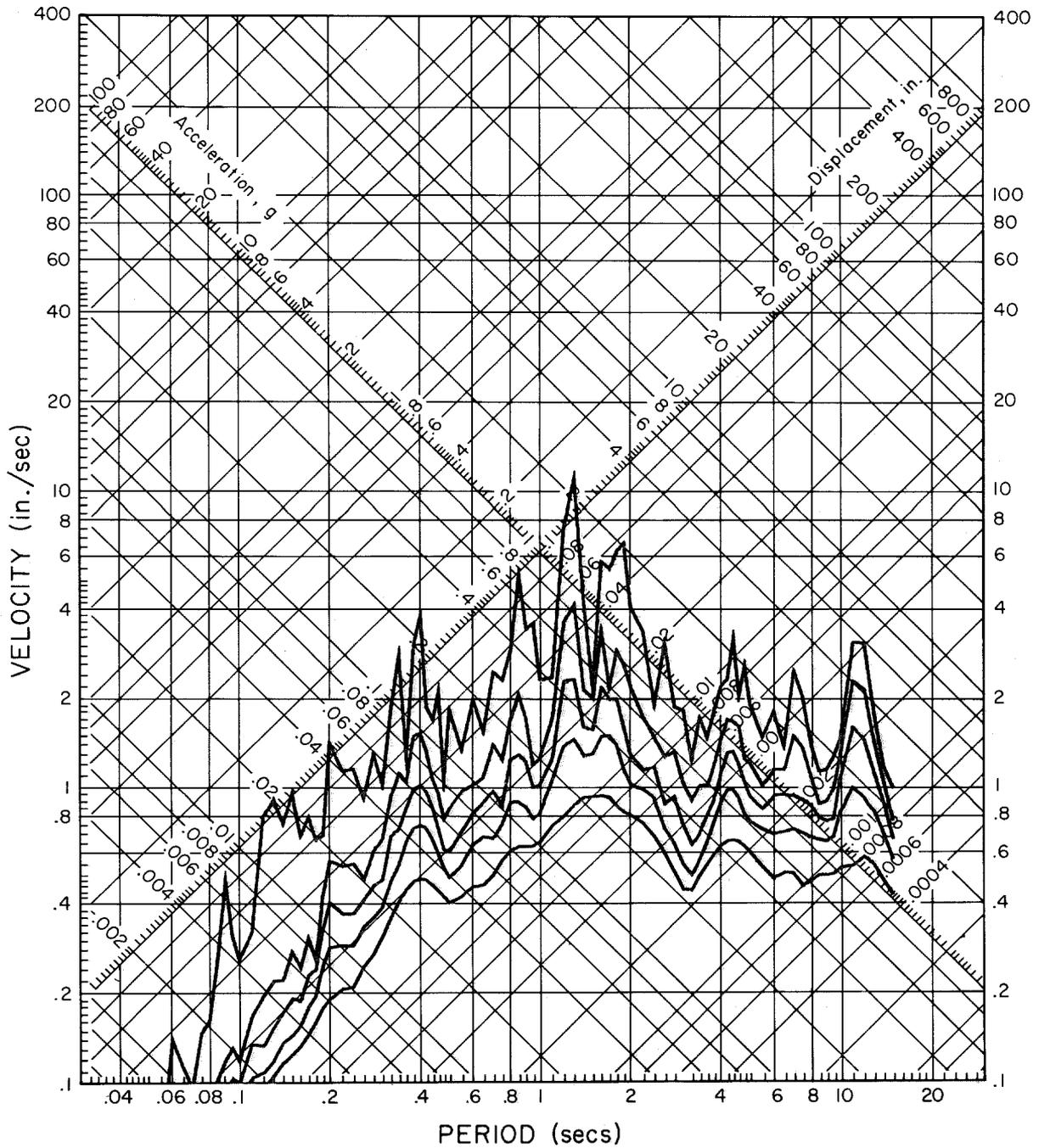


RESPONSE SPECTRUM

BORREGO MOUNTAIN EARTHQUAKE APR 8, 1968 - 1830 PST

111A020 68.007.0 SAN DIEGO LIGHT AND POWER BLDG COMP VERT

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



BORREGO MCOUNTAIN EARTHQUAKE APR 8, 1968 - 1830 PST
IIIA020 68.007.0 SAN DIEGO LIGHT AND POWER BLDG COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT				DAMPING = 2 PERCENT				DAMPING = 5 PERCENT				DAMPING = 10 PERCENT				DAMPING = 20 PERCENT				
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0.044	261-4	357-6	299-4	188-4	510-4	254-6	128-4	134-4	364-4	260-6	965-5	137-4	372-4	258-6	815-5	136-4	368-4	255-6	761-5	135-4	364-4
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0.050	187-4	446-6	301-4	182-4	560-4	364-6	163-4	149-4	457-4	335-6	135-4	137-4	422-4	333-6	119-4	136-4	418-4	333-6	105-4	138-4	419-4
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0.090	383-3	713-5	477-3	900-4	497-3	176-5	877-4	222-4	123-3	142-5	620-4	181-4	991-4	131-5	477-4	168-4	918-4	117-5	334-4	152-4	817-4
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0.280	121-2	593-4	129-2	774-4	133-2	277-4	558-3	361-4	623-3	211-4	386-3	275-4	475-3	165-4	276-3	223-4	372-3	124-4	198-3	171-4	279-3
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IIIA020 68.007.0 SAN DIEGO LIGHT AND POWER BLDG COMP VERT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PERCENT				DAMPING = 2 PERCENT				DAMPING = 5 PERCENT				DAMPING = 10 PERCENT				DAMPING = 20 PERCENT						
	FS	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA
0.75	132-2	284-3	232-2	517-4	238-2	152-3	119-2	277-4	127-2	106-3	893-3	193-4	889-3	928-4	759-3	171-4	777-3	698-4	521-3	134-4	584-3		
0.80	130-2	384-3	292-2	613-4	301-2	224-3	180-2	360-4	176-2	162-3	126-2	261-4	127-2	116-3	855-3	189-4	917-3	803-4	540-3	137-4	630-3		
0.85	151-2	724-3	520-2	102-3	535-2	288-3	206-2	408-4	213-2	180-3	124-2	256-4	133-2	124-3	817-3	179-4	918-3	878-4	529-3	134-4	649-3		
0.90	232-2	504-3	330-2	636-4	351-2	252-3	158-2	319-4	176-2	179-3	111-2	228-4	125-2	126-3	746-3	163-4	886-3	932-4	552-3	127-4	651-3		
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1.20	649-2	148-2	771-2	105-3	776-2	712-3	358-2	506-4	372-2	450-3	221-2	321-4	235-2	272-3	132-2	197-4	142-2	157-3	895-3	119-4	824-3		
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2.60	285-2	130-2	325-2	197-4	316-2	542-3	165-2	822-5	131-2	377-3	122-2	575-5	912-3	311-3	107-2	486-5	753-3	255-3	906-3	436-5	617-3		
2.80	935-3	861-3	202-2	112-4	193-2	611-3	158-2	798-5	137-2	429-3	123-2	564-5	963-5	296-3	957-3	401-5	665-3	237-3	807-3	351-5	533-3		
3.00	778-3	896-3	201-2	101-4	187-2	510-3	126-2	580-5	106-2	369-3	106-2	423-5	762-3	269-3	927-3	323-5	565-3	222-3	859-3	291-5	465-3		
3.20	120-2	654-3	146-2	653-5	128-2	475-3	130-2	475-5	933-3	337-3	115-2	339-5	663-3	265-3	993-3	275-5	520-3	235-3	845-3	274-5	452-3		
3.40	120-2	961-3	164-2	850-5	177-2	568-3	129-2	503-5	105-2	391-3	108-2	349-5	722-3	318-3	100-2	296-5	588-3	280-3	862-3	289-5	518-3		
3.60	152-2	873-3	152-2	689-5	152-2	598-3	128-2	473-5	104-2	476-3	105-2	380-5	832-3	389-3	101-2	320-5	679-3	320-3	873-3	300-5	568-3		
3.80	188-2	113-2	188-2	806-5	188-2	745-3	126-2	528-5	123-2	569-3	117-2	407-5	940-3	480-3	105-2	354-5	794-3	373-3	870-3	310-5	617-3		
4.00	126-2	145-2	231-2	932-5	229-2	953-3	165-2	609-5	149-2	730-3	130-2	470-5	114-2	589-3	106-2	387-5	925-3	419-3	848-3	318-5	659-3		
4.20	194-2	160-2	271-2	932-5	240-2	117-2	215-2	683-5	176-2	904-3	163-2	527-5	135-2	678-3	119-2	405-5	101-2	456-3	863-3	320-5	682-3		
4.40	328-2	231-2	330-2	122-4	330-2	120-2	207-2	638-5	172-2	959-3	161-2	511-5	137-2	713-3	120-2	392-5	101-2	482-3	883-3	315-5	689-3		
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4.80	266-2	204-2	290-2	909-5	266-2	989-3	169-2	439-5	129-2	824-3	150-2	367-5	107-2	642-3	127-2	298-5	840-3	501-3	997-3	285-5	655-3		
5.00	115-2	157-2	198-2	644-5	197-2	995-3	144-2	407-5	125-2	765-3	138-2	315-5	961-3	633-3	125-2	263-5	796-3	499-3	102-2	266-5	627-3		
5.50	903-3	134-2	169-2	454-5	153-2	925-3	132-2	313-5	105-2	770-3	130-2	263-5	880-3	657-3	122-2	231-5	750-3	489-3	104-2	226-5	558-3		
6.00	130-2	178-2	197-2	508-5	187-2	113-2	158-2	322-5	118-2	922-3	141-2	264-5	966-3	689-3	122-2	201-5	721-3	486-3	100-2	190-5	508-3		
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7.50	174-2	249-2	211-2	454-5	209-2	168-2	155-2	306-5	141-2	112-2	142-2	204-5	939-3	868-3	125-2	165-5	727-3	573-3	103-2	143-5	480-3		
8.00	583-3	184-2	180-2	294-5	144-2	143-2	153-2	230-5	112-2	114-2	125-2	186-5	900-3	897-3	107-2	151-5	704-3	637-3	956-3	123-5	500-3		
8.50	117-2	159-2	147-2	225-5	117-2	124-2	138-2	176-5	918-3	110-2	125-2	160-5	820-3	935-3	108-2	142-5	691-3	706-3	862-3	123-5	522-3		
9.00	392-3	171-2	136-2	216-5	119-2	134-2	128-2	169-5	939-3	114-2	118-2	149-5	802-3	980-3	105-2	134-5	684-3	748-3	858-3	120-5	522-3		
9.50	110-2	199-2	131-2	225-5	131-2	155-2	115-2	176-5	102-2	122-2	108-2	140-5	812-3	107-2	980-3	145-5	710-3	801-3	838-3	114-5	530-3		
10.00	152-2	242-2	152-2	248-5	152-2	212-2	127-2	217-5	133-2	177-2	101-2	183-5	111-2	136-2	105-3	128-5	855-3	882-3	846-3	111-5	554-3		
11.00	317-2	555-2	317-2	469-5	317-2	415-2	231-2	351-5	237-2	289-2	179-2	246-5	165-2	182-2	132-2	157-5	103-2	988-3	916-3	939-6	564-3		
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13.00	105-2	375-2	199-2	227-5	181-2	303-2	169-2	183-5	146-2	239-2	140-2	146-5	115-2	178-2	109-2	115-5	864-3	117-2	895-3	858-6	567-3		
14.00	692-3	268-2	156-2	140-5	120-2	238-2	137-2	124-5	107-2	203-2	118-2	107-5	913-3	161-2	100-2	899-6	724-3	111-2	821-3	713-6	500-3		
15.00	103-2	247-2	126-2	112-5	103-2	192-2	108-2	873-6	804-3	166-2	994-3	763-6	699-3	142-2	840-3	684-6	595-3	107-2	780-3	631-6	449-3		

California Institute of Technology
Earthquake Engineering Research Laboratory

The following reports of the Earthquake Engineering Research Laboratory from 1970 on can be obtained from the National Technical Information Service, Springfield, Virginia 22151:

EERL 70-20	Strong-Motion Earthquake Accelerograms - Digitized and Plotted Data (Vol. I, Part A)	PB-187 847
EERL 70-21	" " (Vol. I, Part B)	PB-196 823
EERL 71-20	" " (Vol. I, Part C)	PB-204 364
EERL 71-21	" " (Vol. I, Part D)	PB-208 529
EERL 71-22	" " (Vol. I, Part E)	PB-209 749
EERL 71-23	" " (Vol. I, Part F)	PB-210 619
EERL 71-50	Strong-Motion Earthquake Accelerograms - Digitized and Plotted Data: Corrected Accelerograms and Integrated Ground Velocity and Displacement Curves (Vol. II, Part A)	PB-208 283
Joint Report:	Strong-Motion Instrumental Data on the San Fernando Earthquake of February 9, 1971	PB-204 198
EERL 71-01	P. C. Jennings <u>et al</u> , Forced Vibration of a 22-Story Steel Frame Building	PB-205 161
EERL 71-02	P. C. Jennings, ed., Engineering Features of the San Fernando Earthquake	PB-202 550
EERL 71-03	Randolph A. Adu, Response and Failure of Structures under Stationary Random Excitation	PB-205 304
EERL 71-04	Jacobo Bielak, Earthquake Response of Building-Foundation Systems	PB-205 305
EERL 71-05	M. D. Trifunac, F. E. Udwadia, A. G. Brady, High Frequency Errors and Instrument Corrections of Strong-Motion Accelerograms	PB-205 369
EERL 71-06	Knut Sverre Skattum, Dynamic Analysis of Coupled Shear Walls and Sandwich Beams	PB-205 267
EERL 71-07	John Brent Hoerner, Modal Coupling and Earthquake Response of Tall Buildings	PB-207 635
EERL 72-01	P. C. Jennings and J. Bielak, Dynamics of Building-Soil Interaction	PB-209 666