

69-20132 03/07/01

Page 1 of 4

NUCLEAR POWER GENERATION
CF3.ID4
ATTACHMENT 7.2Index No. 402
Binder No. 203YTITLE: CALCULATION COVER SHEET

Unit(s): 0 (1 & 2) File No.: 52.27
Responsible Group: Civil Calculation No.: 52.27.100.747
No. of Pages 4 pages + Index (4 pages) + 2 Design Calculation YES [x] NO []
Attachments (188 pages) = 196
System No. 42C Quality Classification Q (Safety-Related)
Structure, System or Component: Independent Spent Fuel Storage Facility

Subject: Development of Freefield Ground Motion Storage Cask Spectra and Time Histories for
the Used Fuel Storage Project (GEO.DCPP.01.37, Rev. 1)

Electronic calculation YES [] NO [x]

Computer Model	Computer ID	Program Location	Date of Last Change

Registered Engineer Stamp: Complete A or B

A. Insert PE Stamp or Seal Below	B. Insert stamp directing to the PE stamp or seal
Expiration Date:	REGISTERED ENGINEERS' STAMPS AND EXPIRATION DATES ARE SHOWN ON DWG 063618

NOTE 1: Update DCI promptly after approval.**NOTE 2:** Forward electronic calculation file to CCTG for uploading to EDMS.

CF3.ID4
ATTACHMENT 7.2

TITLE: CALCULATION COVER SHEET

CALC No. 52.27.100.747, ~~80~~

RECORD OF REVISIONS

Rev No.	Status	Reason for Revision	Prepared By:	LBIE Screen	LBIE	Check Method*	LBIE Approval		Checked	Supervisor	Registered Engineer
		Remarks	Initials/ LAN ID/ Date	Yes/ No/ NA	Yes/ No/ NA		PSRC Mtg. No.	PSRC Mtg. Date	Initials/ LAN ID/ Date	Initials/ LAN ID/ Date	Signature/ LAN ID/ Date
0	F	Acceptance of Geosciences Calc. No. GEO.DCPP.01.37, Rev. 1. ITR comments placed in UFSP files by calculation number w/Memorandum to File. Calc. supports current edition of 10CFR72 DCPD License Application to be reviewed by NRC prior to implementation.	AFT2 <i>G. R. P.</i> 10/31/01	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	<input type="checkbox"/> A <input type="checkbox"/> B <input checked="" type="checkbox"/> C	N/A	N/A	<i>PH</i> <i>PWH2</i> 11/1/01	<i>Z/A</i> <i>L/S2</i> 11/1/01	<i>Z/A</i> <i>L/S2</i> 11/1/01
				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C					
				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C					

*Check Method: A: Detailed Check, B: Alternate Method (note added pages), C: Critical Point Check



SUBJECT Development of Freefield Ground Motion Storage Cask Spectra and Time Histories for the Used Fuel Storage Project

MADE BY A. Tafoya DATE 10/31/01 CHECKED BY _____ DATE _____

Item No. 1

Cross-Index

(For Information Only)

Item No.	Geoscience Calc. No.	Title	PG&E Calc. No.	Comments
		Tests		
19	GEO.DCPP.01.19	Development of Strength Envelopes for Jointed Rock Mass at DCPD ISFSI Using Hoek-Brown Equations	52.27.100.729	
20	GEO.DCPP.01.20	Development of Strength Envelopes for Shallow Discontinuities at DCPD ISFSI Using Barton Equations	52.27.100.730	
21	GEO.DCPP.01.21	Analysis of Bedrock Stratigraphy and Geologic Structure at the DCPD ISFSI Site	52.27.100.731	
22	GEO.DCPP.01.22	Kinematic Stability Analysis for Cutslopes at DCPD ISFSI Site	52.27.100.732	
23	GEO.DCPP.01.23	Pseudostatic Wedge (SWEDGE) Analyses of DCPD ISFSI Cutslopes	52.27.100.733	
24	GEO.DCPP.01.24	Determination of Critical Rock Slides on DCPD ISFSI Slope (UTEXAS3 Analysis)	52.27.100.734	
25	GEO.DCPP.01.25	Determination of Seismic Coefficient Time Histories for Critical Rock Slides on DCPD ISFSI Slope (QUAD4 Analysis)	52.27.100.735	
26	GEO.DCPP.01.26	Determination of Potential Earthquake-induced Displacements Along Critical Rock Slides on DCPD ISFSI Slope (Newmark Analysis)	52.27.100.736	



SUBJECT Development of Freefield Ground Motion Storage Cask Spectra and Time Histories for the Used Fuel Storage Project

MADE BY A. Tafoya DATE 10/31/01 CHECKED BY _____ DATE _____

Item No. 1

Cross-Index

(For Information Only)

Item No.	Geoscience Calc. No.	Title	PG&E Calc. No.	Comments
27	GEO.DCPP.01.27	Cold Machine Shop Retaining Wall Stability	52.27.100.737	
28	GEO.DCPP.01.28	Roadway Capacity with Transporter	52.27.100.738	
29	GEO.DCPP.01.29	Determination of Seismic Coefficient Time Histories for Critical Slides on DCPP ISFSI Transport Route	52.27.100.739	
30	GEO.DCPP.01.30	Determination of Potential Earthquake-Induced Displacements of Critical Slides Along DCPP ISFSI Transport Route	52.27.100.740	
31	GEO.DCPP.01.31	Development of Strength Envelopes for Clay Beds	52.27.100.741	
32	GEO.DCPP.01.32	Verification of Computer Program SPCTLR.EXE	52.27.100.742	
33	GEO.DCPP.01.33	UTEXAS3 Computer Program Verification	52.27.100.743	
34	GEO.DCPP.01.34	Verification of Computer Code QUAD4M	52.27.100.744	
35	GEO.DCPP.01.35	Verification of Computer Program DEFORMP	52.27.100.745	
36	GEO.DCPP.01.36	Determination of Design Parameters for ISFSI Fill Slope	52.27.100.746	Calculation to be delayed – retaining wall to be shown on drawing
37	GEO.DCPP.01.37	Development of Freefield Ground Motion Storage Cask Spectra and Time Histories for the Used Fuel Storage Project	52.27.100.747	

PG&E
Geosciences Department
Departmental Calculation Procedure
Attachment 5.2

Number: GEO.001
Revision: 04
Page: 1 of 1

Title: Design Calculation Cover Sheet

PACIFIC GAS AND ELECTRIC COMPANY
GEOSCIENCES DEPARTMENT
CALCULATION DOCUMENT

Calc Number GEO.DCPP.01.37
Revision 1
Date Oct 22, 2001
Calc Pages: 63
Verification Method: A
Verification Pages: 2

LOCATED IN UFSP
FILE - BY CALC.
NUMBER AT-41
10/31/01

TITLE: Development of Freefield Ground Motion
Storage Case Spectra and Time Histories for the used
Fuel Storage Project

PREPARED BY: [Signature] DATE October 22, 2001

Norman Abrahamson
Printed Name

Geosciences
Organization

VERIFIED BY: [Signature] DATE Oct 22, 2001

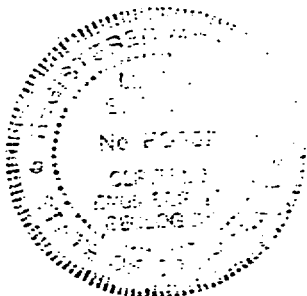
Joseph Sun
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Geosciences
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APPROVED BY: [Signature] DATE 10/23/01

Lloyd Cluff
Printed Name

Geosciences
Organization



Expires 12/31/02

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 1 of 63

Date: 10/22/01

2. PURPOSE

Pacific Engineering and Analysis (2001) developed time histories for DCPD ISFSI (called the PEA time histories). These time histories have been used in engineering evaluations of the ISFSI systems and components. The PEA time histories were developed for 5% damped spectra that are very similar, but slightly different from the 5% damped DCPD spectra for the HE and LTSP. The differences in the spectra are due to accuracy limitations of hand digitization of plots of the spectra and the use of an LTSP horizontal spectrum that did not include NRC staff modifications at long periods (see calculation GEO.DCPP.01.10 for a detailed discussion of the long period LTSP spectrum).

This purpose of this calculation is to review the assumptions and methodology used in developing the PEA time histories and determine if they are appropriate for DCPD. If the assumptions and methodology are found to be appropriate, then this calculation will determine if the PEA time histories satisfy the requirements in SRP 3.7.1 using the DCPD spectra defined in Work Plan GEO 2001-02 for the HE and LTSP. For the HE, the Work Plan specifies periods up to 0.8 seconds and damping values of 4%, 5%, and 7%. For the LTSP, the Work Plan specifies periods up to 2.0 seconds and a damping value of 5%. The DE and DDE spectra and time histories are not evaluated in this calculation.

If any of the PEA time histories do not meet the requirements in SRP 3.7.1, then scale factors are developed such that the scaled time histories would meet the requirements. The results of this calculation are a set of scale factors for each damping value that should be applied to the original PEA time histories.

The intended use of the results is to scale the computed response of the systems and components from time history analyses conducted using the PEA time histories, thereby avoiding having to repeat the calculations done using the PEA time histories. The assessment of the validity of using the scale factors to scale the computed response is not addressed in this calculation.

3. ASSUMPTIONS

3.1 PSD Criteria

If a single set of 3-component time histories is used, as is the case for the PEA time histories, then SRP 3.7.1 (U.S. NRC, 1989) requires that the time histories have adequate power over the relevant frequency band in addition to meeting the response spectral requirements. Appendix A to SRP 3.7.1 gives a minimum Power Spectral Density (PSD) that can be used for a RG1.60 spectral shape (U.S. NRC 1973), but it is not applicable to site-specific spectra.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 2 of 63

Date: 10/22/01

The intent of the PSD requirement is to ensure that there are no significant drops in the power at important frequencies. If the response spectral values at some frequencies greatly exceed the target spectrum, then the response spectrum at other frequencies may still exceed the target spectrum even though there is little power at those other frequencies. This is due to the broad shape of the transfer function of a single degree of freedom oscillator. One way to prevent this from happening is to have the spectrum of the time history be close to the target spectrum at all frequencies. In particular, if the computed response spectral values for 5% damping fall within 90% to 130% of the target spectra values at each frequency, then the PSD will not have significant spectral holes (Pacific Engineering and Analysis, 1999).

In this calculation, scale factors will be developed to scale the time histories. Scaling a time history does not change its frequency content. The main idea of these alternative criteria is that there be a fairly tight fit to the spectrum at all frequencies. The criteria can be made insensitive to scaling by requiring the ratio of the maximum to minimum ratio of the computed spectra to the target to be less than 1.44 (which is 1.3 / 0.9). That is

$$\frac{\left(\frac{Sa_{TH}(f)}{Sa_{Target}(f)} \right)_{\max}}{\left(\frac{Sa_{TH}(f)}{Sa_{Target}(f)} \right)_{\min}} < 1.44 \quad (3-1)$$

where Sa_{TH} is the spectrum for the time history and Sa_{Target} is the spectrum of the target. As an alternative to developing a site-specific minimum PSD, it is assumed that the objective of the PSD check can be met by requiring the ratio of the maximum to minimum ratio of the 5% damped spectral values computed from the time histories to the target to be less than 1.44.

The basis for this assumption is that the Work Plan (section 3.2, item d) specifies that the objective of the PSD requirement can be met by using the criteria given in Pacific Engineering and Analysis (1999) which requires the computed spectral values to fall within 90% - 130% of the target spectral values at all frequencies for 5% damping. The requirement given in eq. (3-1) is simply a generalized form of the criteria given by Pacific Engineering and Analysis (1999) to account for scaling of the time histories.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 3 of 63

Date: 10/22/01

4. DESIGN INPUTS

4.1 Hosgri Spectra

The spectral values for the Blume Hosgri horizontal spectra at 4%, 5%, and 7% damping and for the Newmark Hosgri at 5% and 7% damping are taken from a transmittal from Klimczak (2001). This transmittal included a copy of the "Diablo Canyon Specification for Seismic review of Major Structures for M7.5 Hosgri earthquake" dated February 8, 1977. The spectral values are on microfilm starting at RLOC 02804-0332. These spectral values are consistent with plots of the Newmark Hosgri and Blume Hosgri spectra given in DCM C-17 (Figures 3-2 and 3-3 in DCM C-17, Attachment E). The spectral values for the Newmark and Blume spectra are listed in Tables 4-1 and 4-2, respectively.

The Newmark spectrum was originally defined for damping values of 3% and 5%, but not for 4%. The spectral values for 4% damping were estimated by interpolating the 3% and 5% damped spectral values in calculation GEO.DCPP.01.11 (Table 6-9 of GEO.DCPP.01.11).

For the both the Newmark and Blume Hosgri spectra, the vertical component is defined as 2/3 of the horizontal (PG&E, 2000, DCPD FSAR, Rev 13, Section 2.5.2.10).

4.2 LTSP Spectra

Spectral values for the LTSP horizontal and vertical spectra at 5% damping are taken from Calculation 72.2.7 (page 21) for periods less than 1 sec. These values include the 15% increase in the vertical component over the period range of 0.1 to 1 second required in SSER 34. The value at T=1 second for the horizontal component given in Calculation 72.2.7 is incorrect. It does not include the SSER 34 (U.S. NRC, 1991) adjustment discussed below. The spectral values are listed in Table 4-3.

Adjustments to the long period horizontal spectrum required by SSER 34 were not included in calculation 72.2.7. The increased spectral values for periods of 1.0 to 2.0 seconds determined in calculation GEO.DCPP.01.010 are used. The spectral values are included in Table 4-3.

Calculation 72.2.7 only lists the spectral values for periods less than or equal to 1.0 second. For the vertical component, the spectral values at periods of 1.5 and 2.0 seconds are measured from the plot of the vertical spectrum in the SSER 34 (Figure 2-5, page 2-45).

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 4 of 63

Date: 10/22/01

Table 4-1. Newmark Housgri horizontal spectra at 4%, 5% and 7% damping

Period (sec)	Frequency (Hz)	Spectral Acc (g)		
		4% damping	5% damping	7% damping
0.0294	34.000	0.750	0.750	0.750
0.0323	31.000	0.787	0.784	0.779
0.0357	28.000	0.851	0.842	0.830
0.0400	25.000	0.928	0.912	0.890
0.0455	22.000	1.023	0.997	0.963
0.0500	20.000	1.101	1.067	1.022
0.0556	18.000	1.194	1.149	1.091
0.0588	17.000	1.246	1.195	1.130
0.0625	16.000	1.317	1.268	1.173
0.0667	15.000	1.373	1.306	1.221
0.0690	14.500	1.407	1.334	1.246
0.0714	14.000	1.447	1.371	1.274
0.0741	13.500	1.489	1.408	1.303
0.0755	13.250	1.504	1.425	1.318
0.0769	13.000	1.531	1.444	1.334
0.0784	12.750	1.555	1.464	1.350
0.0800	12.500	1.581	1.489	1.366
0.0816	12.250	1.603	1.506	1.383
0.0833	12.000	1.629	1.528	1.401
0.0851	11.750	1.655	1.551	1.419
0.0870	11.500	1.681	1.574	1.438
0.0889	11.250	1.711	1.599	1.458
0.0909	11.000	1.741	1.624	1.478
0.0930	10.750	1.772	1.651	1.500
0.0952	10.500	1.804	1.678	1.522
0.0976	10.250	1.838	1.707	1.544
0.1000	10.000	1.873	1.737	1.568
0.1026	9.750	1.909	1.768	1.593
0.1053	9.500	1.948	1.801	1.619
0.1081	9.250	1.988	1.835	1.646
0.1111	9.000	2.030	1.870	1.674
0.1143	8.750	2.075	1.908	1.703
0.1176	8.500	2.121	1.947	1.734
0.1212	8.250	2.171	1.989	1.766
0.1250	8.000	2.222	2.032	1.800
0.1274	7.850	2.222	2.032	1.800
0.1290	7.750	2.222	2.032	1.800
0.1311	7.630	2.222	2.032	1.800

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 5 of 63

Date: 10/22/01

Table 4-1. (cont)

Period (sec)	Frequency (Hz)	Spectral Acc (g)		
		4% damping	5% damping	7% damping
0.1333	7.500	2.222	2.032	1.800
0.1357	7.370	2.222	2.032	1.800
0.1379	7.250	2.222	2.032	1.800
0.1404	7.120	2.222	2.032	1.800
0.1429	7.000	2.222	2.032	1.800
0.1456	6.870	2.222	2.032	1.800
0.1481	6.750	2.222	2.032	1.800
0.1508	6.630	2.222	2.032	1.800
0.1538	6.500	2.222	2.032	1.800
0.1570	6.370	2.222	2.032	1.800
0.1600	6.250	2.222	2.032	1.800
0.1631	6.130	2.222	2.032	1.800
0.1667	6.000	2.222	2.032	1.800
0.1764	5.670	2.222	2.032	1.800
0.1739	5.750	2.222	2.032	1.800
0.1776	5.630	2.222	2.032	1.800
0.1818	5.500	2.222	2.032	1.800
0.1862	5.370	2.222	2.032	1.800
0.1905	5.250	2.222	2.032	1.800
0.1949	5.130	2.222	2.032	1.800
0.2000	5.000	2.222	2.032	1.800
0.2041	4.900	2.222	2.032	1.800
0.2083	4.800	2.222	2.032	1.800
0.2128	4.700	2.222	2.032	1.800
0.2174	4.600	2.222	2.032	1.800
0.2222	4.500	2.222	2.032	1.800
0.2273	4.400	2.222	2.032	1.800
0.2326	4.300	2.222	2.032	1.800
0.2381	4.200	2.222	2.032	1.800
0.2439	4.100	2.222	2.032	1.800
0.2500	4.000	2.222	2.032	1.800
0.2564	3.900	2.222	2.032	1.800
0.2632	3.800	2.222	2.032	1.800
0.2703	3.700	2.222	2.032	1.800
0.2778	3.600	2.222	2.032	1.800
0.2899	3.450	2.222	2.032	1.800
0.3030	3.300	2.222	2.032	1.800
0.3175	3.150	2.222	2.032	1.800
0.3333	3.000	2.222	2.032	1.800

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 6 of 63

Date: 10/22/01

Table 4-1. (cont)

Period (sec)	Frequency (Hz)	Spectral Acc (g)		
		4% damping	5% damping	7% damping
0.3448	2.900	2.222	2.032	1.800
0.3571	2.800	2.222	2.032	1.800
0.3704	2.700	2.222	2.032	1.800
0.3846	2.600	2.222	2.032	1.800
0.4000	2.500	2.222	2.032	1.800
0.4167	2.400	2.222	2.032	1.800
0.4348	2.300	2.198	2.032	1.800
0.4545	2.200	2.115	1.975	1.789
0.4762	2.100	2.020	1.885	1.707
0.5000	2.000	1.924	1.795	1.626
0.5263	1.900	1.828	1.705	1.545
0.5556	1.800	1.732	1.616	1.464
0.5882	1.700	1.636	1.526	1.382
0.6250	1.600	1.539	1.436	1.301
0.6667	1.500	1.443	1.346	1.220
0.7143	1.400	1.347	1.257	1.138
0.7692	1.300	1.251	1.167	1.057
0.8333	1.200	1.154	1.077	0.976
0.9091	1.100	1.058	0.987	0.894
1.0000	1.000	0.962	0.898	0.813
1.1111	0.900	0.866	0.808	0.732
1.2500	0.800	0.770	0.718	0.650
1.4286	0.700	0.673	0.628	0.569
1.5385	0.650	0.625	0.583	0.529
1.6667	0.600	0.578	0.539	0.488
2.0000	0.500	0.433	0.411	0.383
2.5000	0.400	0.273	0.263	0.245
3.3333	0.300	0.156	0.148	0.138
4.0000	0.250	0.108	0.103	0.096

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 7 of 63

Date: 10/22/01

Table 4-2. Blume Hosgri horizontal spectra at 4%, 5%, and 7% damping

Period (sec)	Frequency (Hz)	Spectral Acc (g)		
		4% damping	5% damping	7% damping
0.0294	34.000	0.750	0.750	0.750
0.0323	31.000	0.777	0.773	0.766
0.0357	28.000	0.810	0.801	0.786
0.0400	25.000	0.850	0.835	0.810
0.0455	22.000	0.921	0.899	0.860
0.0500	20.000	0.979	0.952	0.902
0.0556	18.000	1.051	1.016	0.953
0.0588	17.000	1.093	1.055	0.983
0.0625	16.000	1.141	1.097	1.017
0.0667	15.000	1.195	1.146	1.055
0.0690	14.500	1.225	1.173	1.076
0.0714	14.000	1.256	1.202	1.099
0.0741	13.500	1.291	1.233	1.123
0.0755	13.250	1.309	1.249	1.136
0.0769	13.000	1.328	1.266	1.150
0.0784	12.750	1.347	1.283	1.164
0.0800	12.500	1.367	1.302	1.178
0.0816	12.250	1.388	1.321	1.193
0.0833	12.000	1.410	1.341	1.209
0.0851	11.750	1.433	1.361	1.225
0.0870	11.500	1.457	1.383	1.242
0.0889	11.250	1.482	1.405	1.260
0.0909	11.000	1.508	1.429	1.278
0.0930	10.750	1.536	1.454	1.298
0.0952	10.500	1.564	1.479	1.318
0.0976	10.250	1.594	1.507	1.340
0.1000	10.000	1.626	1.535	1.362
0.1026	9.750	1.659	1.565	1.386
0.1053	9.500	1.694	1.596	1.410
0.1081	9.250	1.731	1.630	1.437
0.1111	9.000	1.770	1.665	1.464
0.1143	8.750	1.811	1.702	1.493
0.1176	8.500	1.841	1.736	1.521
0.1212	8.250	1.867	1.767	1.548
0.1250	8.000	1.890	1.790	1.572
0.1270	7.875	1.902	1.802	1.585
0.1290	7.750	1.914	1.814	1.599
0.1311	7.625	1.927	1.827	1.612

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 8 of 63

Date: 10/22/01

Table 4-2 (cont.)

Period (sec)	Frequency (Hz)	Spectral Acc (g)		
		4% damping	5% damping	7% damping
0.1333	7.500	1.940	1.840	1.627
0.1356	7.375	1.954	1.854	1.641
0.1379	7.250	1.968	1.868	1.657
0.1404	7.125	1.982	1.882	1.671
0.1429	7.000	1.996	1.894	1.680
0.1455	6.875	2.010	1.907	1.689
0.1481	6.750	2.025	1.921	1.699
0.1509	6.625	2.040	1.935	1.708
0.1538	6.500	2.056	1.949	1.718
0.1569	6.375	2.073	1.964	1.729
0.1600	6.250	2.090	1.980	1.740
0.1633	6.125	2.101	1.990	1.747
0.1667	6.000	2.113	2.000	1.753
0.1702	5.875	2.126	2.011	1.760
0.1739	5.750	2.139	2.022	1.768
0.1778	5.625	2.152	2.033	1.776
0.1818	5.500	2.165	2.044	1.782
0.1860	5.375	2.178	2.052	1.786
0.1905	5.250	2.191	2.061	1.790
0.1951	5.125	2.205	2.070	1.795
0.2000	5.000	2.220	2.080	1.800
0.2041	4.900	2.228	2.086	1.802
0.2083	4.800	2.237	2.092	1.804
0.2128	4.700	2.246	2.099	1.806
0.2174	4.600	2.255	2.106	1.809
0.2222	4.500	2.263	2.112	1.811
0.2273	4.400	2.271	2.117	1.814
0.2326	4.300	2.279	2.123	1.816
0.2381	4.200	2.287	2.128	1.818
0.2439	4.100	2.290	2.126	1.818
0.2500	4.000	2.290	2.125	1.815
0.2564	3.900	2.290	2.122	1.812
0.2632	3.800	2.288	2.118	1.808
0.2703	3.700	2.285	2.115	1.805
0.2778	3.600	2.281	2.111	1.801
0.2899	3.450	2.265	2.095	1.790
0.3030	3.300	2.245	2.075	1.775
0.3175	3.150	2.224	2.054	1.754
0.3333	3.000	2.187	2.030	1.723

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 9 of 63

Date: 10/22/01

Table 4.2 (cont.)

Period (sec)	Frequency (Hz)	Spectral Acc (g)		
		4% damping	5% damping	7% damping
0.3448	2.900	2.158	2.008	1.703
0.3571	2.800	2.127	1.977	1.684
0.3704	2.700	2.089	1.944	1.654
0.3846	2.600	2.048	1.904	1.618
0.4000	2.500	2.010	1.850	1.580
0.4167	2.400	1.960	1.808	1.538
0.4348	2.300	1.906	1.763	1.493
0.4545	2.200	1.846	1.714	1.451
0.4762	2.100	1.781	1.660	1.408
0.5000	2.000	1.720	1.605	1.360
0.5263	1.900	1.654	1.546	1.307
0.5556	1.800	1.581	1.480	1.249
0.5882	1.700	1.510	1.417	1.198
0.6250	1.600	1.432	1.348	1.142
0.6667	1.500	1.357	1.273	1.090
0.7143	1.400	1.279	1.190	1.036
0.7692	1.300	1.202	1.118	0.975
0.8333	1.200	1.126	1.049	0.916
0.9091	1.100	1.050	0.978	0.862
1.0000	1.000	0.958	0.894	0.796
1.1111	0.900	0.881	0.822	0.732
1.2500	0.800	0.784	0.732	0.653
1.4286	0.700	0.685	0.640	0.572
1.5385	0.650	0.628	0.586	0.540
1.6667	0.600	0.563	0.526	0.491
2.0000	0.500	0.426	0.407	0.380
2.5000	0.400	0.273	0.261	0.244
3.3333	0.300	0.157	0.150	0.137
4.0000	0.250	0.106	0.101	0.093

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 10 of 63

Date: 10/22/01

Table 4-3. LTSP / SSER 34 Spectra at 5% damping

Period (sec)	Frequency (Hz)	Spectral Acc (g)	
		Horizontal with SSER 34 Adjustment	Vertical with SSER 34 Adjustment
0.025	40.00	0.830	0.700
0.030	33.00	0.830	0.830
0.040	25.00	0.964	1.109
0.050	20.00	1.110	1.410
0.070	14.29	1.344	1.711
0.085	11.76	1.508	1.760
0.100	10.00	1.654	1.992
0.120	8.33	1.819	1.887
0.140	7.14	1.918	1.764
0.150	6.67	1.947	1.717
0.170	5.88	1.976	1.607
0.200	5.00	2.006	1.465
0.250	4.00	2.015	1.295
0.300	3.33	1.962	1.160
0.400	2.50	1.763	0.961
0.500	2.00	1.554	0.823
0.750	1.33	1.109	0.611
1.000	1.00	0.89*	0.474
1.500	0.67	0.58*	0.282**
2.000	0.50	0.40*	0.207**

Spectral values from Calc 72.2.7 except where indicated

* from Calculation GEO.DCPP.01.10

** from SSER 34 (Figure 2-5, page 2-45)

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 11 of 63

Date: 10/22/01

4.3 Earthquake Magnitude and Distance

For the HE, the earthquake magnitude is 7.5 (DCM C-17, page 3).

For the LTSP, the earthquake magnitude is 7.2 and the distance to the site is 4.5 km (SSER 34, page 2-43).

4.4 Definition of Envelope of a spectrum

The frequency sampling for evaluating the spectral compatibility given in SRP 3.7.1 (page 1-6) is listed in Table 4-4. Using the definition in SRP 3.7.1 (page 1-6), the spectrum of a time history is considered to envelope a design spectrum if the following conditions are met:

No more than 5 points fall below the target spectrum

No points fall more than 10 percent below the target spectrum

Table 4-4 NRC recommended frequency sampling for the target spectrum
From SRP 3.7.1

Frequency Range (Hz)	Frequency Increment (Hz)
0.2 – 3.0	0.10
3.0 – 3.6	0.15
3.6 – 5.0	0.20
5.0 – 8.0	0.25
8.0 – 15.0	0.50
15.0 – 18.0	1.0
18.0 – 22.0	2.0
22.0 – 34.0	3.0

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 12 of 63

Date: 10/22/01

5. METHOD AND EQUATION SUMMARY

5.1 Methods

The methods used to check the applicability of the PEA time histories to the DCPD spectra are described below. If the time histories are properly baseline corrected (5.1.2), meet the objective of the PSD (5.1.4) and meet the statistical independence criteria (5.1.5), then scaled versions of the time histories will also meet these criteria. Scale factors are then determined such that the scaled time histories meet the NRC definition of "enveloping" a spectrum (input 4.4).

5.1.1 Review the methodology and assumptions used by PEA in developing the PEA time histories and determine if they are appropriate for use at DCPD.

5.1.2 Integrate the PEA acceleration time histories to velocity and displacement to determine if they are baseline corrected. The integration is done in the time domain using a midpoint rule (eq. 5-3).

5.1.3 Interpolate the HE and LTSP spectral values to the NRC recommended frequencies (Table 4-4) using eq. (5-2).

5.1.4 Determine if the PEA time histories meet the objective of the PSD requirement using the alternative method described in Assumption 3.1.

(A) Compute the spectral values at 5% damping for the HE and LTSP time histories using the program SPCTLR.EXE.

(B) Determine if

$$\frac{\left(\frac{Sa_{TH}(f)}{Sa_{Target}(f)} \right)_{\max}}{\left(\frac{Sa_{TH}(f)}{Sa_{Target}(f)} \right)_{\min}} < 1.44$$

5.1.5. Compute the cross-correlation of the 3-components for each set using eq. (5-1) and determine if it is below 0.3 as required by ASCE 4.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 13 of 63

Date: 10/22/01

- 5.1.6 Determine if the spectra envelope the target spectra at all damping values for each component separately.
- (A) Compute the spectral values for 4% and 7% damping for the HE using the program SPCTLR.EXE.
 - (B) Determine the number of spectral values that fall below the target spectra for the HE at 4%, 5%, and 7% damping and for the LTSP at 5% damping
 - (C) Determine the minimum ratio of the computed spectral values to the target spectral values for the HE at 4%, 5%, and 7% damping and for the LTSP at 5% damping.
 - (D) If more than 5 points fall below the target or the minimum ratio is less than 0.90, determine the smallest scale factor that can be applied to the spectral values such that no more than 5 points fall below the target and the minimum ratio is greater than 0.90.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 14 of 63

Date: 10/22/01

5.2 Equations

5.2.1 Cross-correlation

The absolute value of the cross-correlation of two time series, $x(t)$ and $y(t)$, is given by (Kanasewich, 1981, page 84).

$$\left| \frac{\sum x(t_i)y(t_i)}{\sqrt{\sum x^2(t_i)\sum y^2(t_i)}} \right| \quad (5-1)$$

5.2.2 Equation for log-log interpolation of response spectra

The interpolation of the response spectral values is done using linear interpolation on the log spectral acceleration – log period. Given the spectral values $Sa(T)$ at periods T_1 and T_2 , respectively, then using linear interpolation on the log-log values, the spectral acceleration at period T is given by

$$\ln(Sa(T)) = \ln(Sa(T_1)) + [\ln(T/T_1)] * [\ln(Sa(T_2)/Sa(T_1))] / [\ln(T_2/T_1)] \quad (5-2)$$

5.2.3 Equation for integration of time histories

Linear interpolation is used for integrating the time histories. The equation is

$$y(t_i) = \sum_{j=1}^i \left(\frac{x(t_{j-1}) + x(t_j)}{2} \right) \Delta t \quad (5-3)$$

where $y(t)$ is the integration of $x(t)$ and Δt is the time step. This is a well known equation based on linear interpolating between sample points.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 15 of 63

Date: 10/22/01

5.3 Computer Software

5.3.1 SPCTLR.EXE

The response spectrum is computed using the program SPCTLR.EXE, which was verified in calculation GEO.DCPP.01.32.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 16 of 63

Date: 10/22/01

6. BODY OF CALCULATIONS

6.1 Review of Assumption and Methodology used by Pacific Engineering and Analysis (1999)

The key assumption is the selection of the initial time history for use in the spectral matching. For both the HE and the LTSP, the Lucerne recording from the 1992 Landers earthquake was selected. This recording is about 1 km from a magnitude 7.3 strike-slip earthquake. The magnitude and distance of this recording are similar to those for the HE and LTSP (see input 4.4). It is representative of forward rupture directivity conditions. Therefore, this recording is appropriate for use for DCP.

The methodology used to develop the spectrum compatible time histories is the frequency domain approach implemented in the computer program RASCALS (Silva and Lee, 1987). This approach first replaces the computed Fourier amplitude spectrum with a Fourier amplitude spectrum computed from the response spectrum based on random vibration theory. The Fourier phase of the recorded time history is maintained. The program then modifies the Fourier amplitudes to improve the match with the target spectrum. This is a standard procedure for spectral matching that is commonly used. It is appropriate for application to developing ground motions for DCP.

The computer program RASCALS (Silva and Lee, 1987) has not been verified by Geosciences. In this calculation, the results from RASCALS are verified.

6.2 Determine if the PEA Time Histories are Baseline Corrected

The 3 components for the HE acceleration time histories and 3 components for the LTSP acceleration time histories are integrated using eq. (5-3) to compute the velocity and displacement time histories. These are plotted in Figures 6-1a, 6-1b, and 6-1c for the HE and in Figures 6-2a, 6-2b, and 6-2c for the LTSP. The displacement time histories do not show a significant long period drift indicating that time histories are baseline corrected.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 17 of 63

Date: 10/22/01

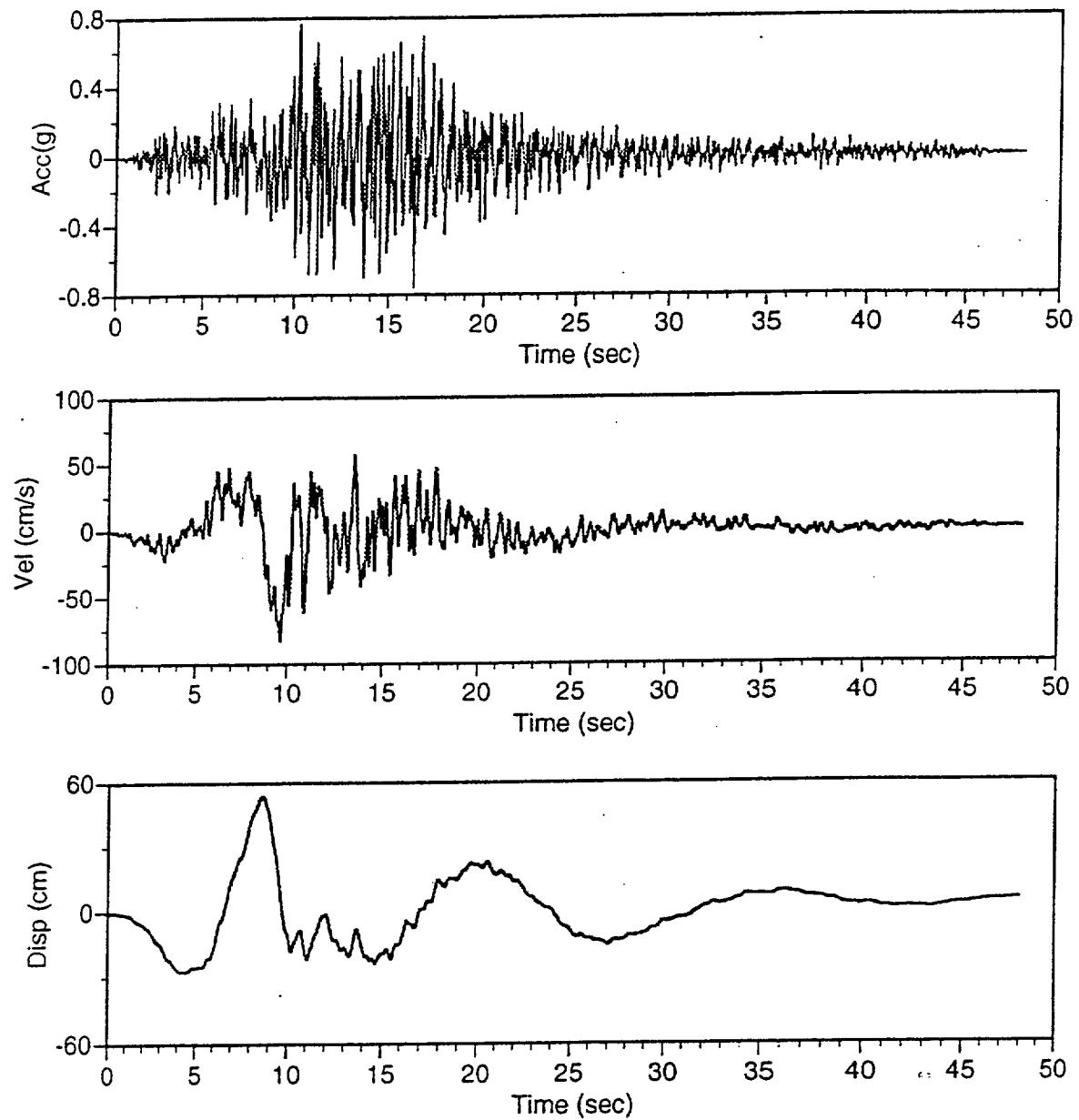


Figure 6-1a. Acceleration, velocity, and displacement time histories for the HE component H1.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 18 of 63

Date: 10/22/01

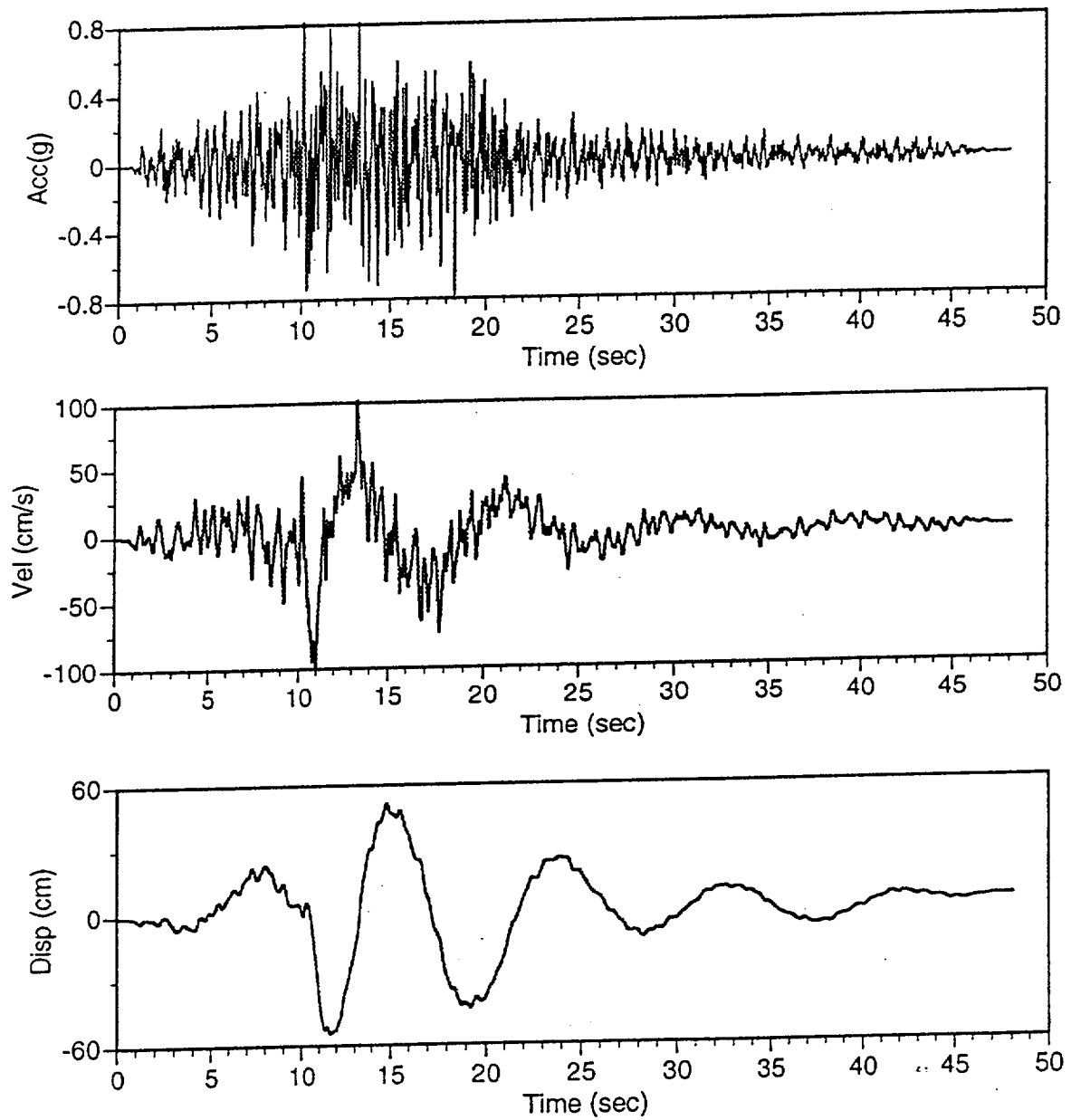


Figure 6-1b. Acceleration, velocity, and displacement time histories for the HE component H2.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 19 of 63

Date: 10/22/01

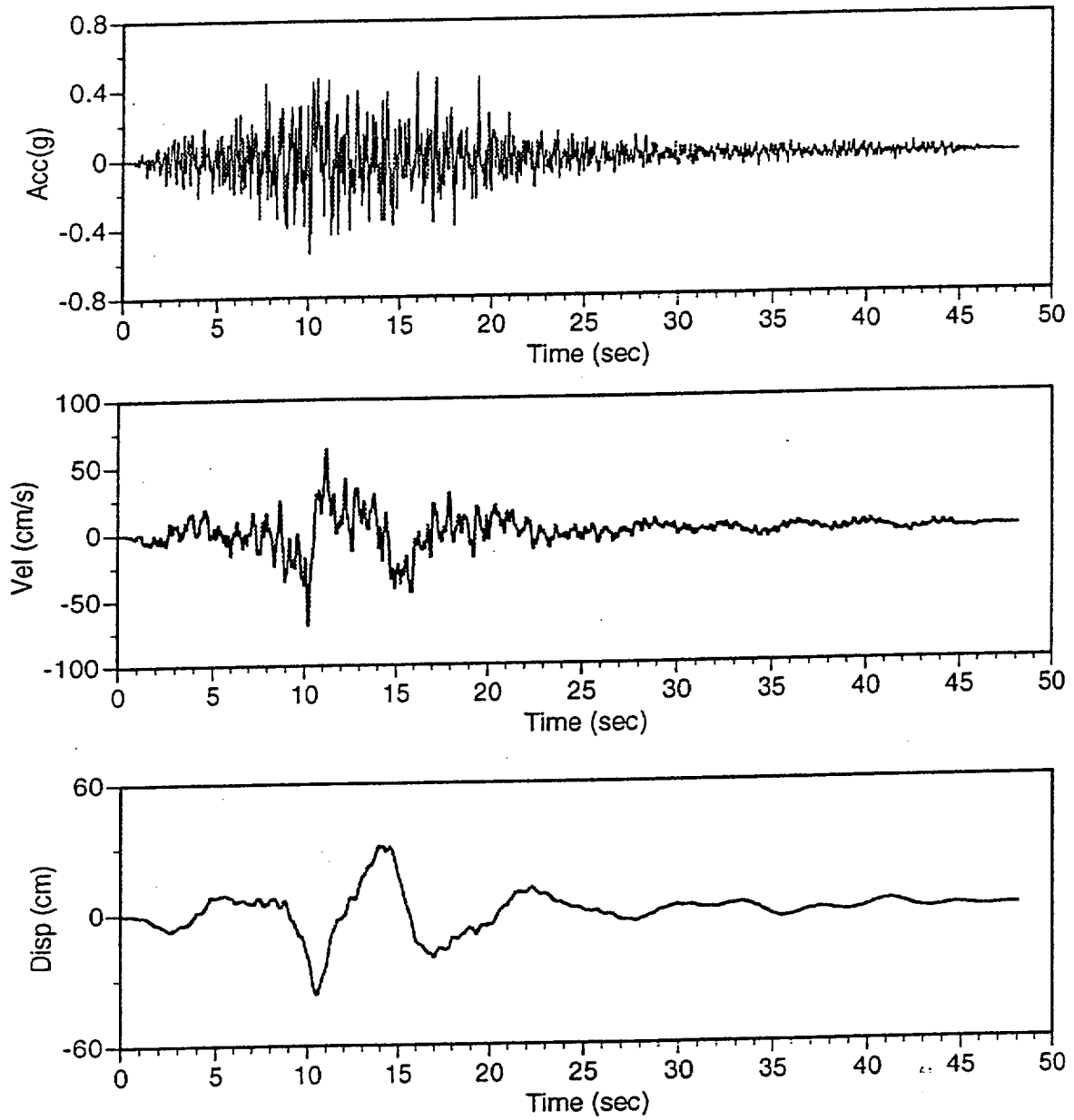


Figure 6-1c. Acceleration, velocity, and displacement time histories for the HE component Z.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 20 of 63

Date: 10/22/01

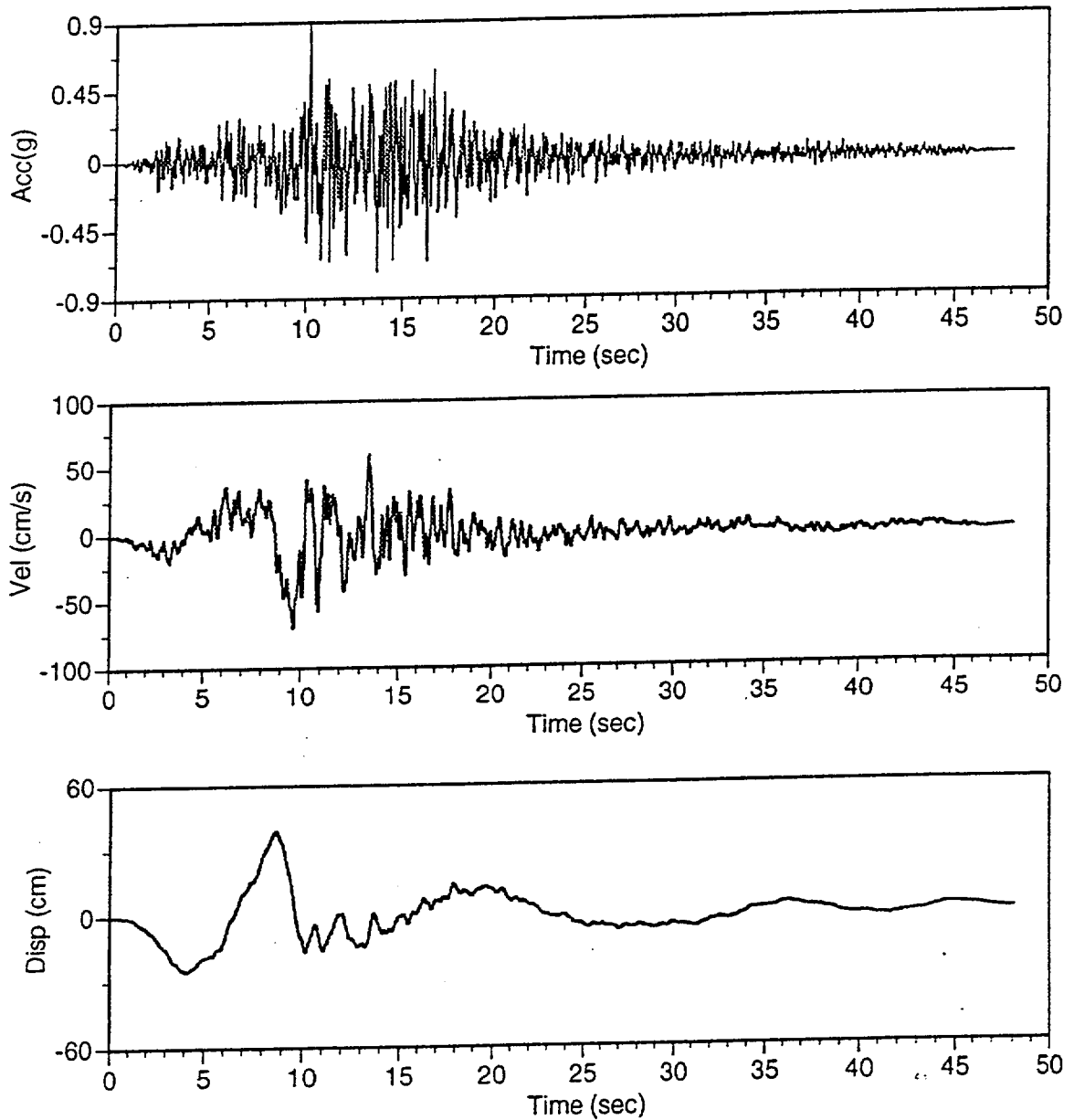


Figure 6-2a. Acceleration, velocity, and displacement time histories for the LTSP component H1.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 21 of 63

Date: 10/22/01

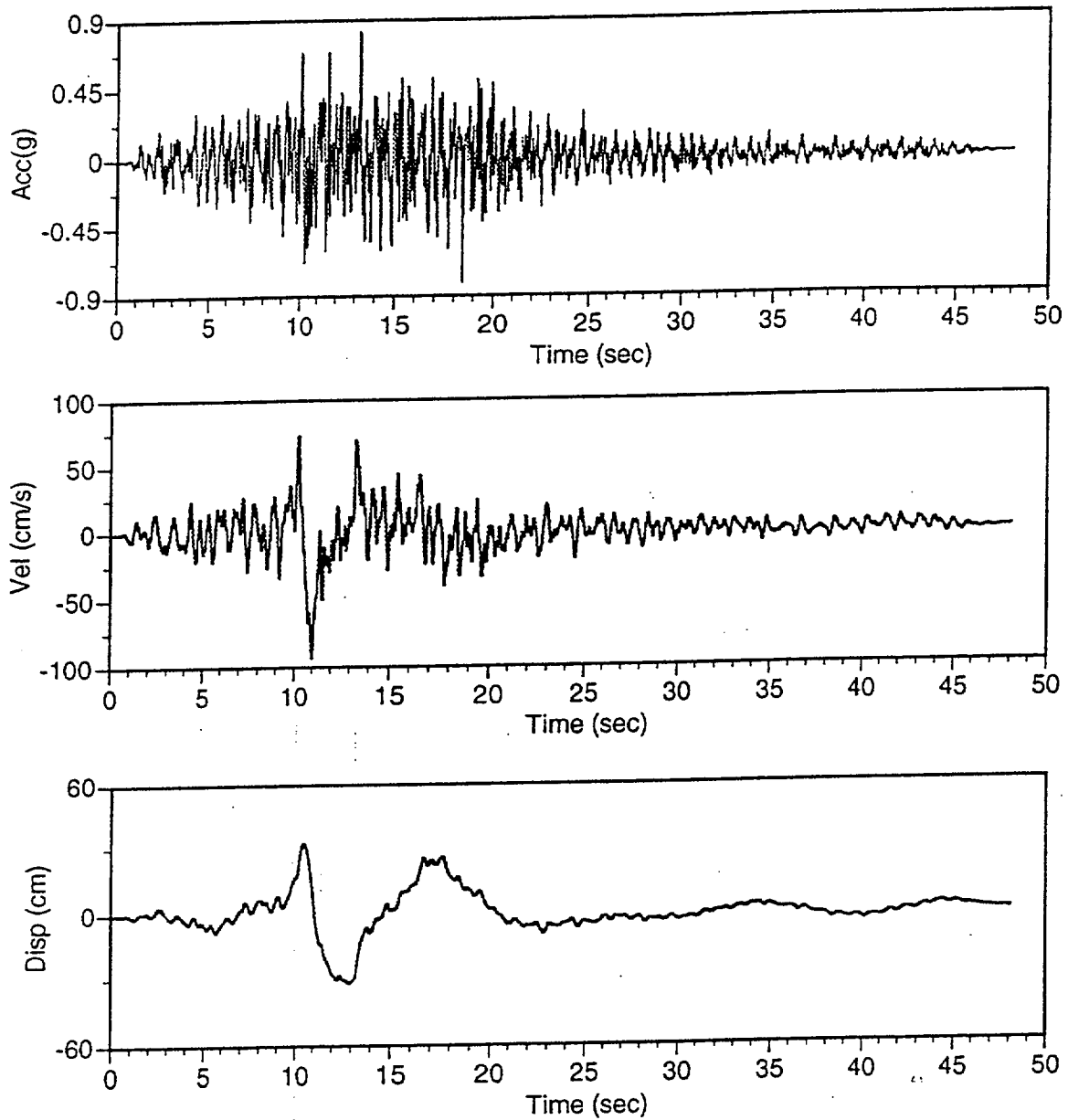


Figure 6-2b. Acceleration, velocity, and displacement time histories for the LTSP component H2.

Calc Number: GEO.DCPPP.01.37

Rev Number: 1

Sheet Number: 22 of 63

Date: 10/22/01

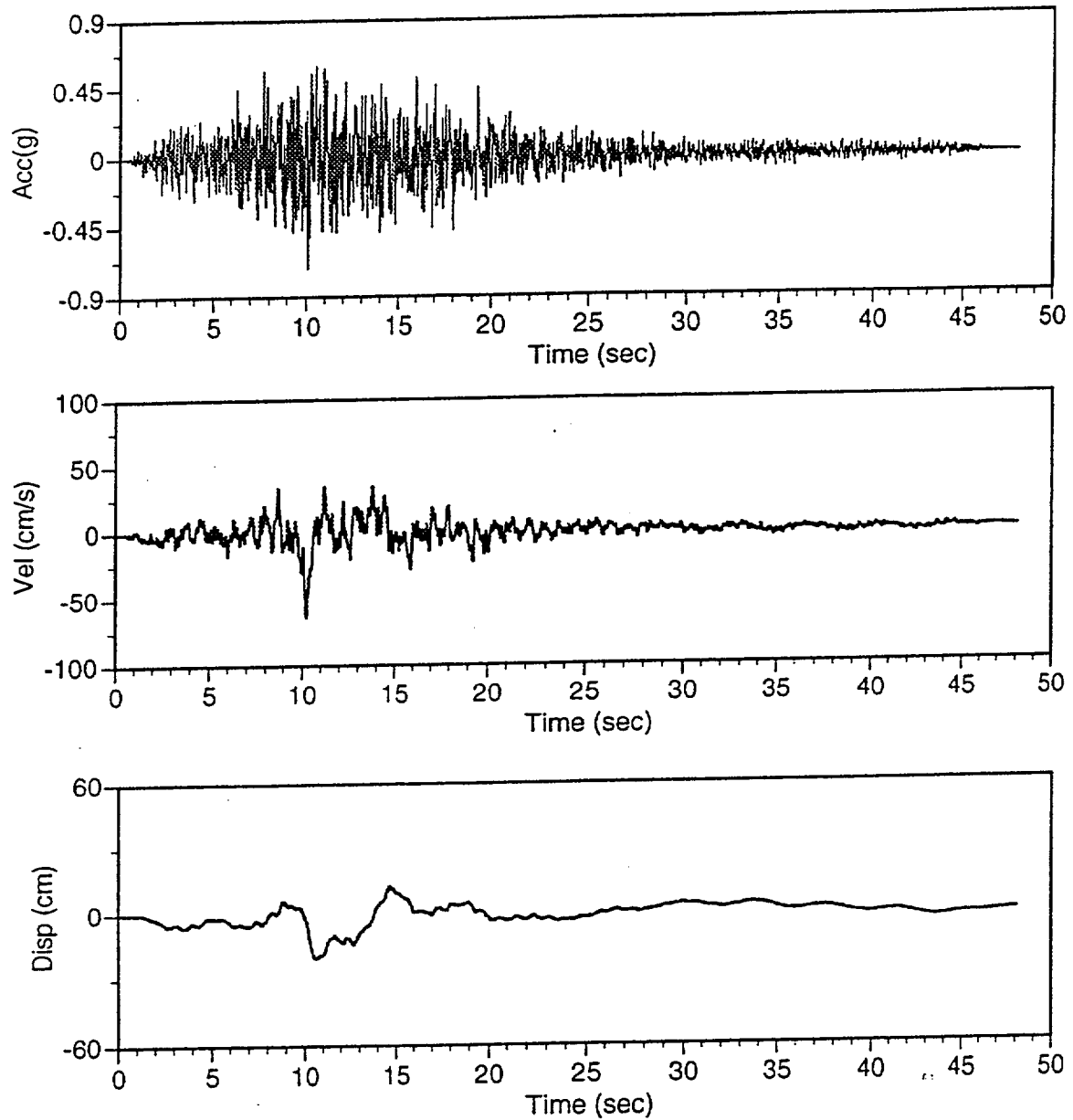


Figure 6-2c. Acceleration, velocity, and displacement time histories for the LTSP component Z.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 23 of 63

Date: 10/22/01

6.3 Interpolate the HE and LTSP Spectral Values to the NRC Frequencies

For the HE, the larger values at each period of the Newmark Hosgri and Blume Hosgri spectra are used to define the HE spectrum at each damping value. The Newmark and Blume spectra values listed in Tables 4-1 and 4-2 are already defined at the NRC frequencies (and are also defined at additional frequencies). The HE spectra at 4%, 5%, and 7% damping at the NRC frequencies are listed in Table 6-1. The Work Plan calls for limiting the HE spectra to periods less than 0.8 seconds (frequencies above 1.25 Hz). Therefore, the spectral values in Table 6-1 are restricted to the NRC frequencies greater than 1.2 Hz.

For the LTSP, the spectral values from Table 4-3 are interpolated to develop the target spectra at the NRC frequencies using eq. (5-2). The resulting spectral values are listed in Table 6-2 for both the horizontal and vertical components. As a check, the interpolated LTSP spectral values are plotted against the LTSP spectral values from Table 4-3 in Figure 6-3. This figure shows that the interpolation is correct.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 24 of 63

Date: 10/22/01

Table 6-1. Spectral values for HE at NRC recommended frequencies.

Period (sec)	Freq (Hz)	Horizontal Spectral Acc (g)			Vertical Spectral Acc (g)		
		4% damping	5% damping	7% damping	4% damping	5% damping	7% damping
0.0294	34.000	0.750	0.750	0.750	0.500	0.500	0.500
0.0323	31.000	0.787	0.784	0.779	0.525	0.523	0.519
0.0357	28.000	0.851	0.842	0.830	0.567	0.561	0.553
0.0400	25.000	0.928	0.912	0.890	0.619	0.608	0.593
0.0455	22.000	1.023	0.997	0.963	0.682	0.665	0.642
0.0500	20.000	1.101	1.067	1.022	0.734	0.711	0.681
0.0556	18.000	1.194	1.149	1.091	0.796	0.766	0.727
0.0588	17.000	1.246	1.195	1.130	0.831	0.797	0.753
0.0625	16.000	1.317	1.268	1.173	0.878	0.845	0.782
0.0667	15.000	1.373	1.306	1.221	0.915	0.871	0.814
0.0690	14.500	1.407	1.334	1.246	0.938	0.889	0.831
0.0714	14.000	1.447	1.371	1.274	0.965	0.914	0.849
0.0741	13.500	1.489	1.408	1.303	0.993	0.939	0.869
0.0769	13.000	1.531	1.444	1.334	1.021	0.963	0.889
0.0800	12.500	1.581	1.489	1.366	1.054	0.993	0.911
0.0833	12.000	1.629	1.528	1.401	1.086	1.019	0.934
0.0870	11.500	1.681	1.574	1.438	1.121	1.049	0.959
0.0909	11.000	1.741	1.624	1.478	1.161	1.083	0.985
0.0952	10.500	1.804	1.678	1.522	1.203	1.119	1.015
0.1000	10.000	1.873	1.737	1.568	1.249	1.158	1.045
0.1053	9.500	1.948	1.801	1.619	1.299	1.201	1.079
0.1111	9.000	2.030	1.870	1.674	1.353	1.247	1.116
0.1176	8.500	2.121	1.947	1.734	1.414	1.298	1.156
0.1250	8.000	2.222	2.032	1.800	1.481	1.355	1.200
0.1290	7.750	2.222	2.032	1.800	1.481	1.355	1.200
0.1333	7.500	2.222	2.032	1.800	1.481	1.355	1.200
0.1379	7.250	2.222	2.032	1.800	1.481	1.355	1.200
0.1429	7.000	2.222	2.032	1.800	1.481	1.355	1.200
0.1481	6.750	2.222	2.032	1.800	1.481	1.355	1.200
0.1538	6.500	2.222	2.032	1.800	1.481	1.355	1.200
0.1600	6.250	2.222	2.032	1.800	1.481	1.355	1.200
0.1667	6.000	2.222	2.032	1.800	1.481	1.355	1.200
0.1739	5.750	2.222	2.032	1.800	1.481	1.355	1.200
0.1818	5.500	2.222	2.044	1.800	1.481	1.363	1.200
0.1905	5.250	2.222	2.061	1.800	1.481	1.374	1.200

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 25 of 63

Date: 10/22/01

Table 6-1 (cont).

Period (sec)	Freq (Hz)	Horizontal Spectral Acc (g)			Vertical Spectral Acc (g)		
		4% damping	5% damping	7% damping	4% damping	5% damping	7% damping
0.2000	5.000	2.222	2.080	1.800	1.481	1.387	1.200
0.2083	4.800	2.237	2.092	1.804	1.491	1.395	1.203
0.2174	4.600	2.255	2.106	1.809	1.503	1.404	1.206
0.2273	4.400	2.271	2.117	1.814	1.514	1.411	1.209
0.2381	4.200	2.287	2.128	1.818	1.525	1.419	1.212
0.2500	4.000	2.290	2.125	1.815	1.527	1.417	1.210
0.2632	3.800	2.288	2.118	1.808	1.525	1.412	1.205
0.2778	3.600	2.281	2.111	1.801	1.521	1.407	1.201
0.2899	3.450	2.265	2.095	1.800	1.510	1.397	1.200
0.3030	3.300	2.245	2.075	1.800	1.497	1.383	1.200
0.3175	3.150	2.224	2.054	1.800	1.483	1.369	1.200
0.3333	3.000	2.222	2.032	1.800	1.481	1.355	1.200
0.3448	2.900	2.222	2.032	1.800	1.481	1.355	1.200
0.3571	2.800	2.222	2.032	1.800	1.481	1.355	1.200
0.3704	2.700	2.222	2.032	1.800	1.481	1.355	1.200
0.3846	2.600	2.222	2.032	1.800	1.481	1.355	1.200
0.4000	2.500	2.222	2.032	1.800	1.481	1.355	1.200
0.4167	2.400	2.222	2.032	1.800	1.481	1.355	1.200
0.4348	2.300	2.198	2.032	1.800	1.465	1.355	1.200
0.4545	2.200	2.115	1.975	1.800	1.410	1.317	1.200
0.4762	2.100	2.020	1.885	1.707	1.347	1.257	1.138
0.5000	2.000	1.924	1.795	1.626	1.283	1.197	1.084
0.5263	1.900	1.828	1.705	1.545	1.219	1.137	1.030
0.5556	1.800	1.732	1.616	1.464	1.155	1.077	0.976
0.5882	1.700	1.636	1.526	1.382	1.091	1.017	0.921
0.6250	1.600	1.539	1.436	1.301	1.026	0.957	0.867
0.6667	1.500	1.443	1.346	1.220	0.962	0.897	0.813
0.7143	1.400	1.347	1.257	1.138	0.898	0.838	0.759
0.7692	1.300	1.251	1.167	1.057	0.834	0.778	0.705
0.8333	1.200	1.154	1.077	0.976	0.769	0.718	0.651

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 26 of 63

Date: 10/22/01

Table 6-2. Spectral values for LTSP at NRC recommended frequencies.

Period (sec)	Frequency (Hz)	Spectral Acc (g)	
		Horizontal 5% damping	Vertical 5% damping
0.02941	34.000	0.830	0.808
0.03226	31.000	0.858	0.886
0.03571	28.000	0.907	0.985
0.04000	25.000	0.964	1.109
0.04545	22.000	1.045	1.273
0.05000	20.000	1.110	1.410
0.05556	18.000	1.179	1.498
0.05882	17.000	1.218	1.548
0.06250	16.000	1.260	1.603
0.06667	15.000	1.307	1.664
0.06897	14.500	1.333	1.697
0.07143	14.000	1.360	1.716
0.07407	13.500	1.390	1.725
0.07692	13.000	1.421	1.735
0.08000	12.500	1.455	1.745
0.08333	12.000	1.490	1.755
0.08696	11.500	1.527	1.790
0.09091	11.000	1.567	1.852
0.09524	10.500	1.609	1.919
0.10000	10.000	1.654	1.992
0.10526	9.500	1.699	1.962
0.11111	9.000	1.747	1.931
0.11765	8.500	1.800	1.898
0.12500	8.000	1.844	1.854
0.12903	7.750	1.865	1.828
0.13333	7.500	1.886	1.802
0.13793	7.250	1.908	1.776
0.14286	7.000	1.926	1.750
0.14815	6.750	1.942	1.725
0.15385	6.500	1.953	1.694
0.16000	6.250	1.962	1.659
0.16667	6.000	1.971	1.624
0.17391	5.750	1.980	1.587
0.18182	5.500	1.988	1.547
0.19048	5.250	1.997	1.506
0.20000	5.000	2.006	1.465

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 27 of 63

Date: 10/22/01

Table 6-2 (cont).

Period (sec)	Frequency (Hz)	Spectral Acc (g)	
		Horizontal 5% damping	Vertical 5% damping
0.20833	4.800	2.008	1.432
0.21739	4.600	2.009	1.399
0.22727	4.400	2.011	1.365
0.23810	4.200	2.013	1.330
0.25000	4.000	2.015	1.295
0.26316	3.800	2.000	1.254
0.27778	3.600	1.984	1.211
0.28986	3.450	1.972	1.179
0.30303	3.300	1.955	1.146
0.31746	3.150	1.922	1.113
0.33333	3.000	1.887	1.079
0.34483	2.900	1.863	1.056
0.35714	2.800	1.839	1.033
0.37037	2.700	1.814	1.009
0.38462	2.600	1.789	0.985
0.40000	2.500	1.763	0.961
0.41667	2.400	1.723	0.934
0.43478	2.300	1.682	0.907
0.45455	2.200	1.640	0.879
0.47619	2.100	1.597	0.851
0.50000	2.000	1.554	0.823
0.52632	1.900	1.489	0.793
0.55556	1.800	1.424	0.762
0.58824	1.700	1.359	0.731
0.62500	1.600	1.292	0.699
0.66667	1.500	1.225	0.667
0.71429	1.400	1.157	0.634
0.76923	1.300	1.090	0.599
0.83333	1.200	1.024	0.558
0.90909	1.100	0.958	0.516
1.00000	1.000	0.890	0.474
1.11111	0.900	0.795	0.413
1.25000	0.800	0.701	0.355
1.42857	0.700	0.608	0.298
1.66667	0.600	0.504	0.251
2.00000	0.500	0.400	0.207

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 28 of 63

Date: 10/22/01

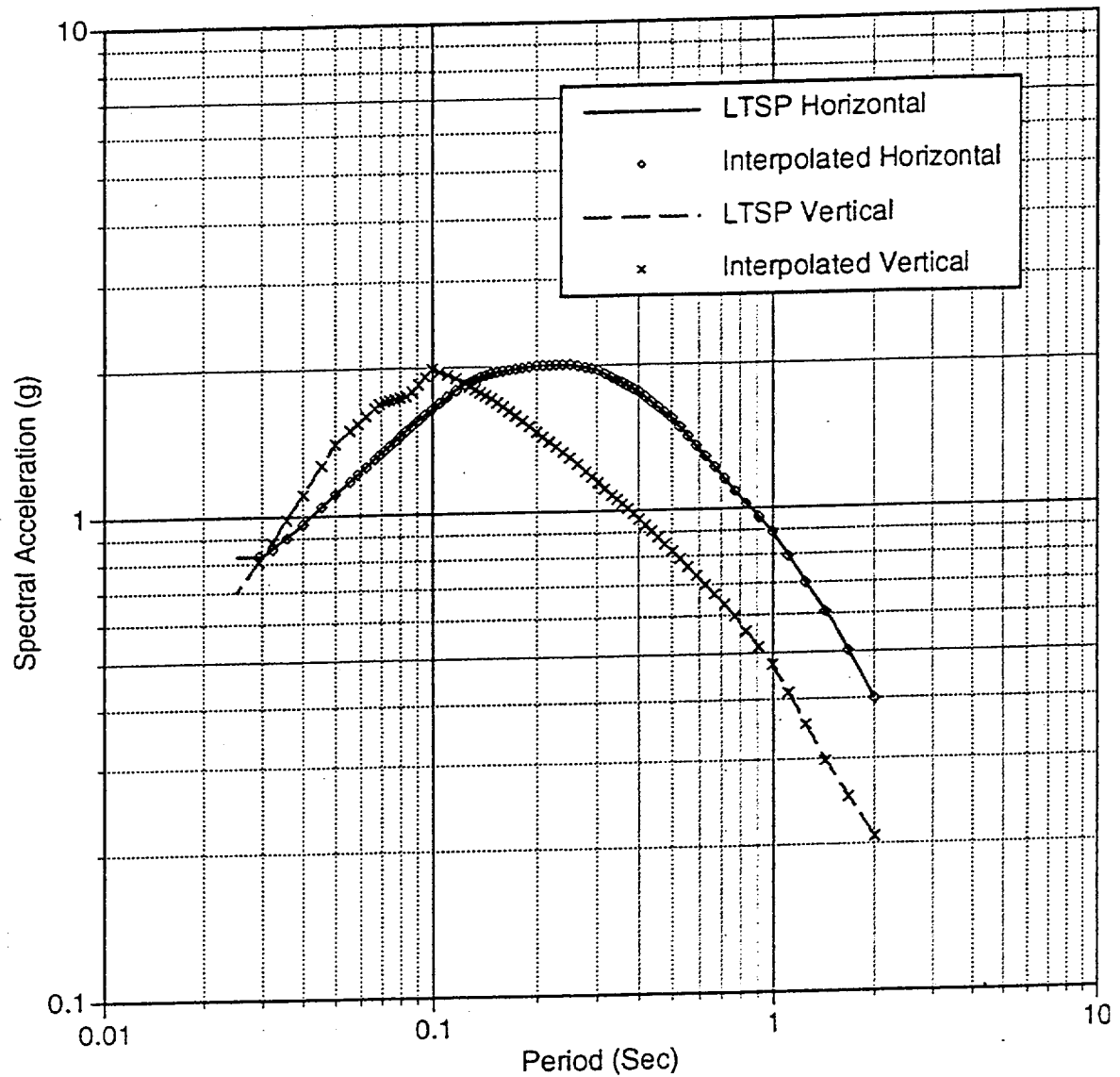


Figure 6-3. Comparison of the interpolated spectral values for the LTSP with the spectral values from Table 4-3.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 29 of 63

Date: 10/22/01

6.4.1 Determine if the PEA Time Histories Meet the Objective of the PSD Requirement

6.4.1A: Compute the response spectral values

The spectra for the HE and LTSP at 5% damping are computed using the program SPCTLR.EXE. The resulting spectral values are listed in Table 6-3 for the HE and in Table 6-4 for the LTSP.

The computed spectra at 5% damping are compared to the target spectra for the three components of the HE in Figures 6-4a, 6-4b, and 6-4c. The computed spectra at 5% damping are compared to the target spectra for the three components of the LTSP in Figures 6-5a, 6-5b, and 6-5c.

6.4.1B: Determine if the spectral values meet the objective of the PSD requirement

The ratios of the computed spectral values to the target spectral values are also listed in Table 6-3 and 6-4 for the HE and LTSP, respectively. The minimum and maximum values of the ratios are listed in Table 6-5. For all three components of the HE and LTSP time histories, the maximum ratio over the minimum ratio is less than 1.44. Therefore, these time histories meet the objective of the PSD requirement as described in assumption 3.1.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 30 of 63

Date: 10/22/01

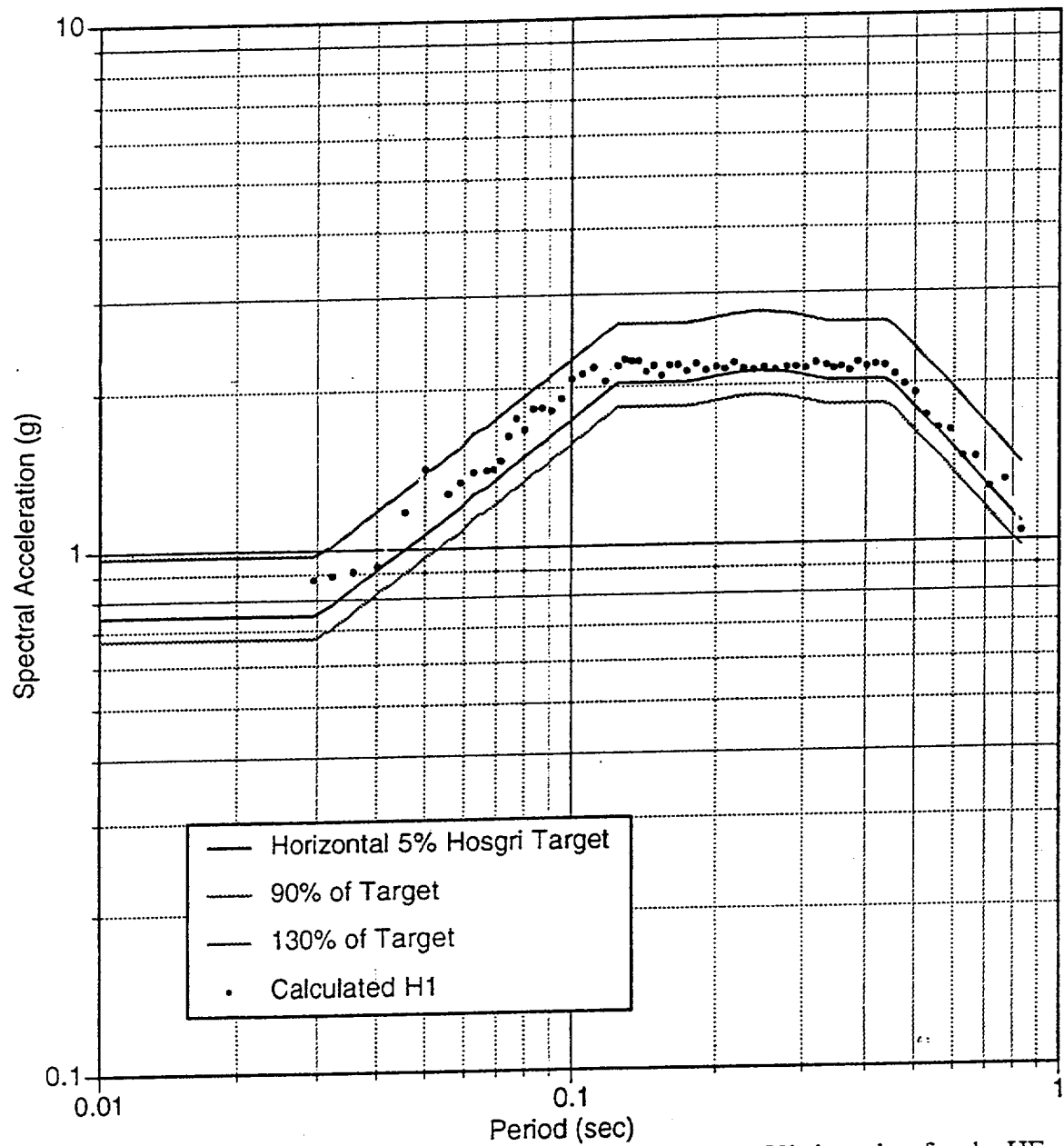


Figure 6-4a. Comparison of the target and computed spectra at 5% damping for the HE component H1.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 31 of 63

Date: 10/22/01

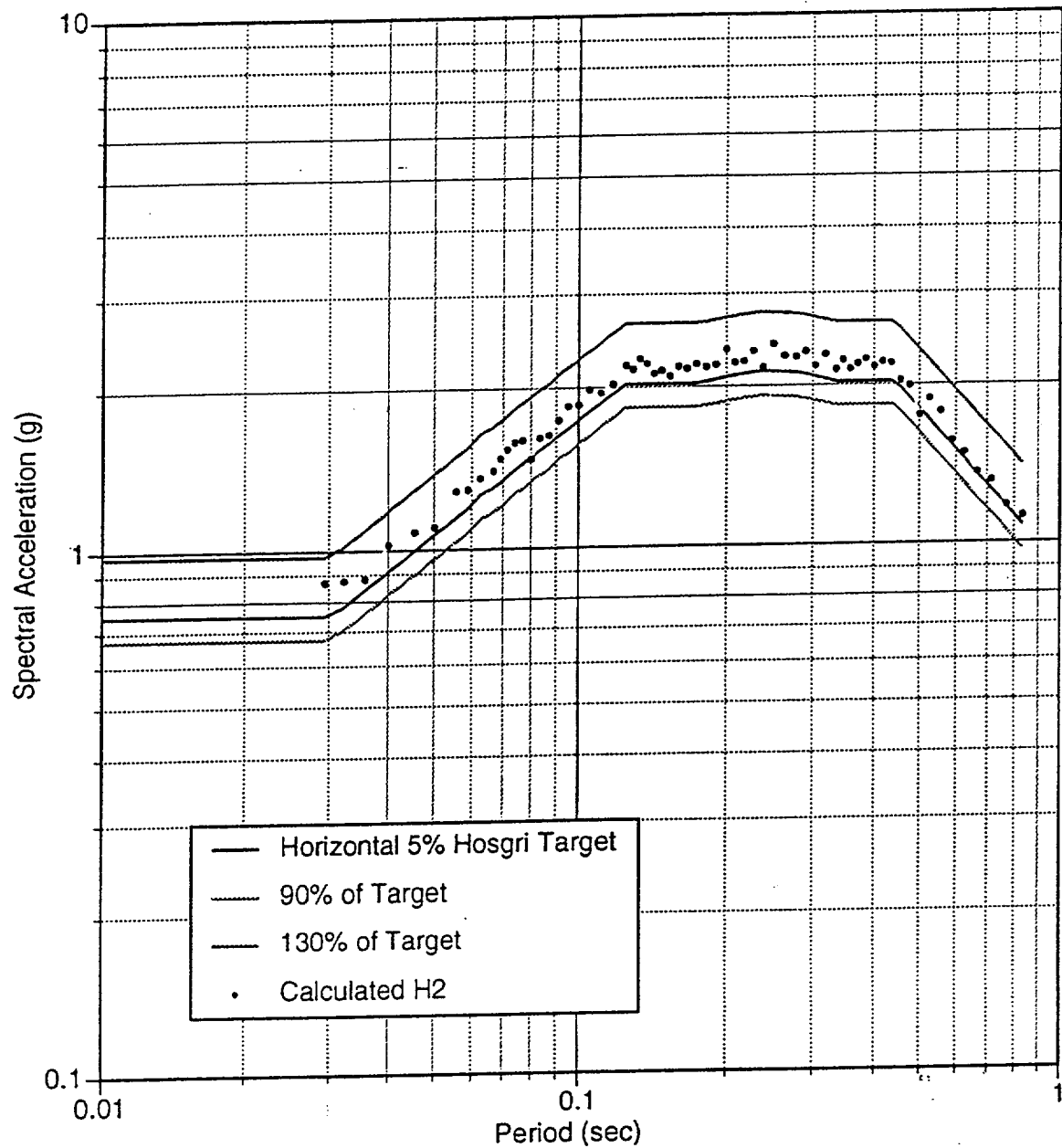


Figure 6-4b. Comparison of the target and computed spectra at 5% damping for the HE component H2.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 32 of 63

Date: 10/22/01

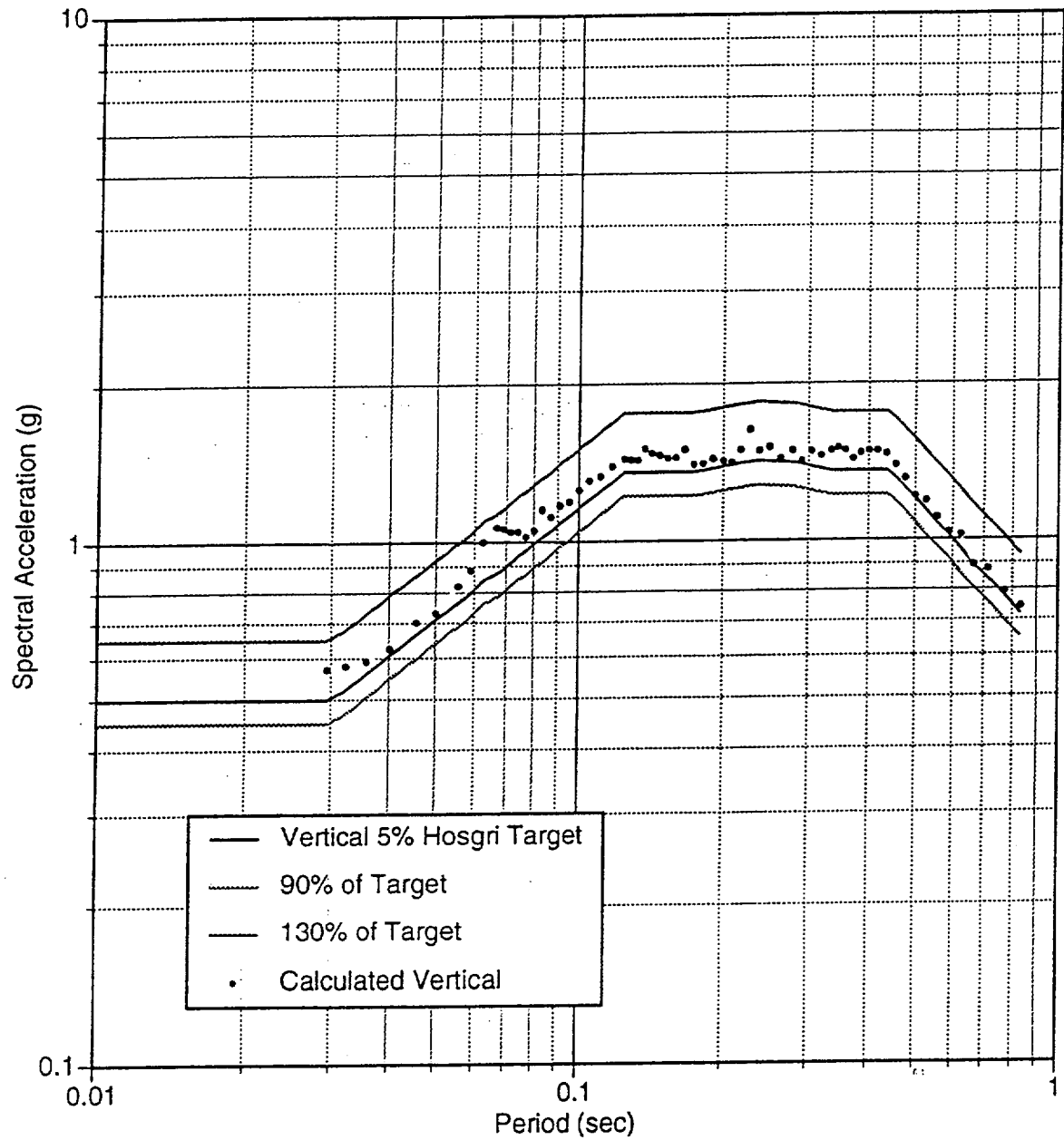


Figure 6-4c. Comparison of the target and computed spectra at 5% damping for the HE component Z.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 33 of 63

Date: 10/22/01

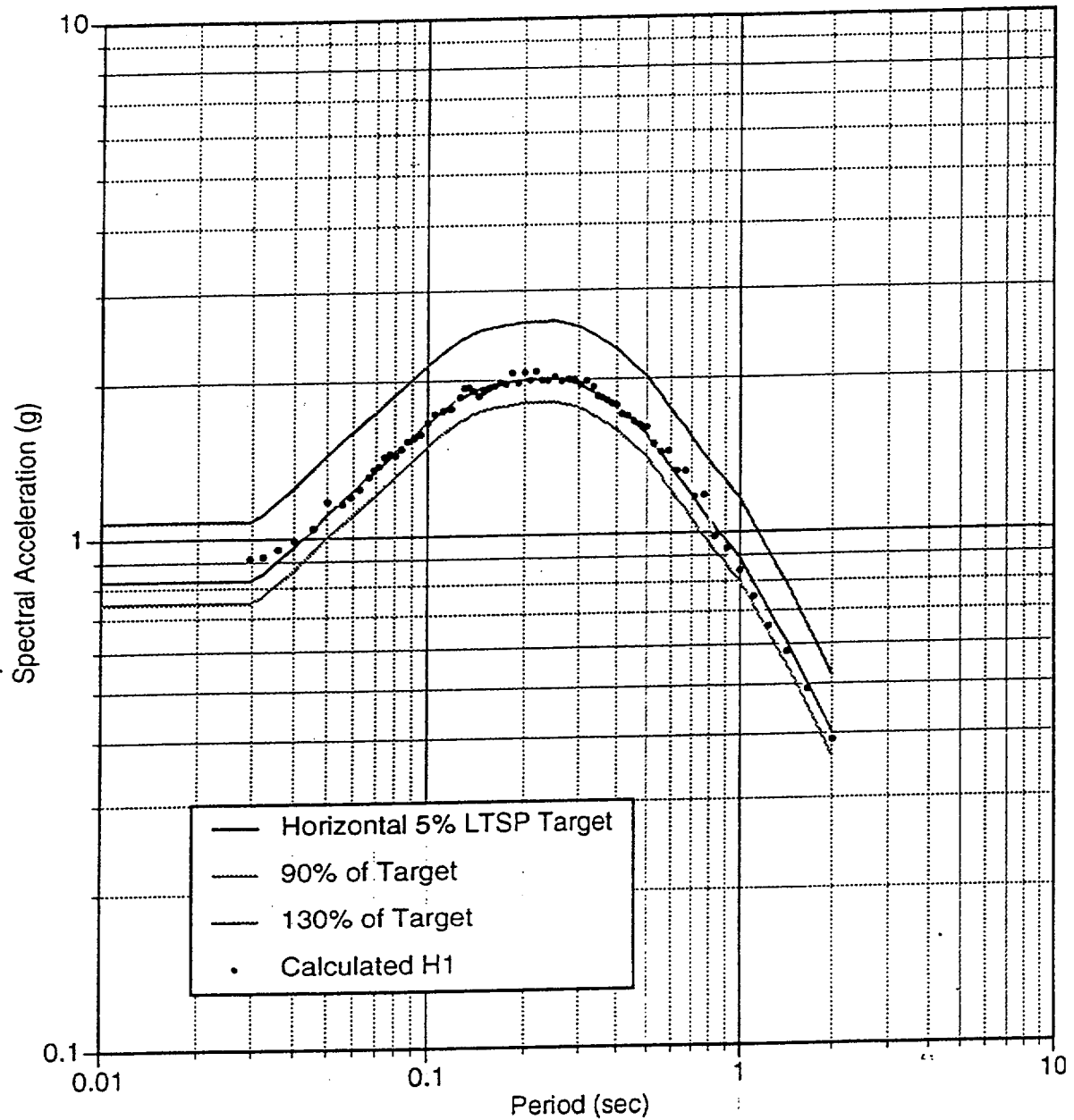


Figure 6-5a. Comparison of the target and computed spectra at 5% damping for the LTSP component H1.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 34 of 63

Date: 10/22/01

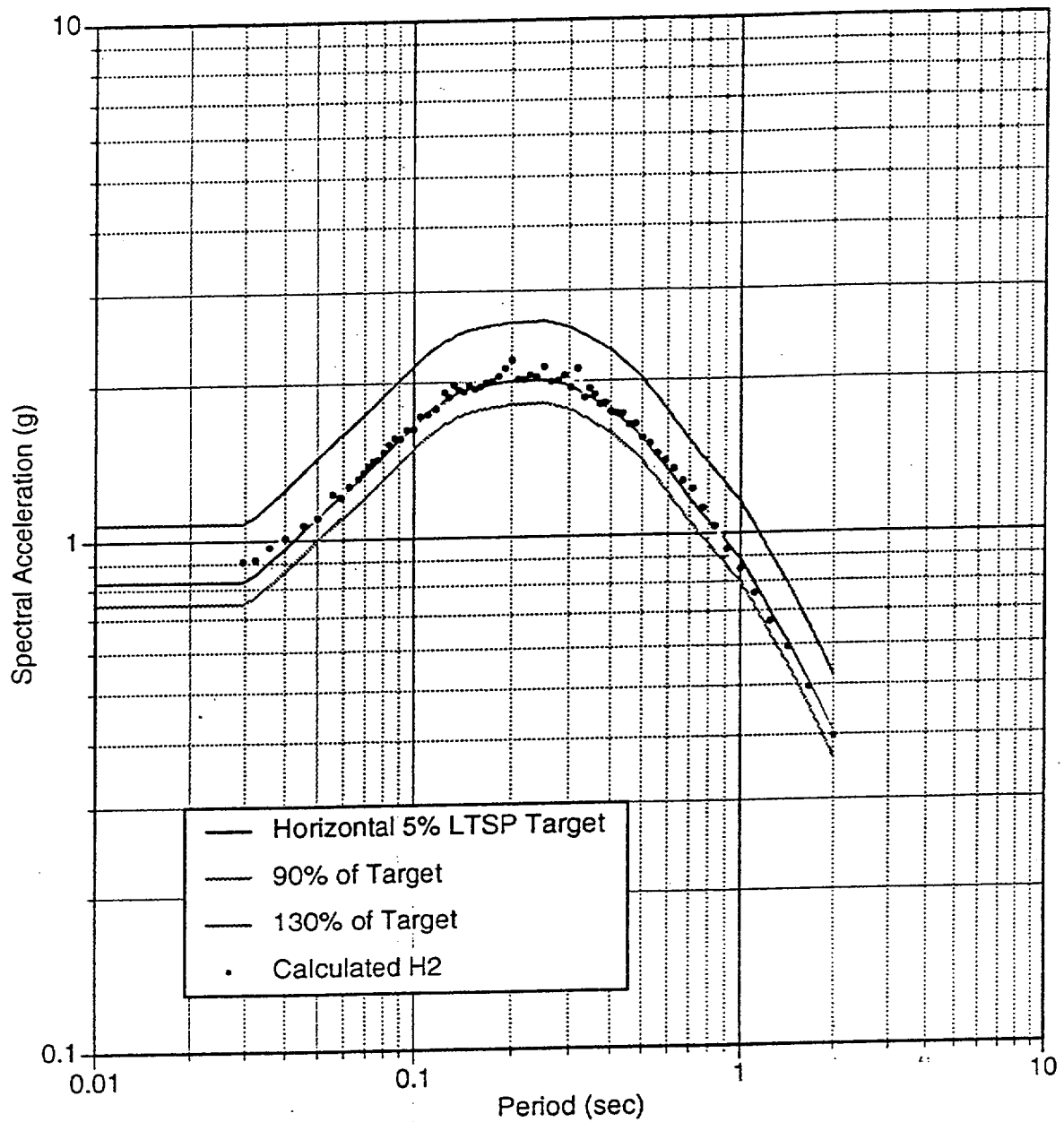


Figure 6-5b. Comparison of the target and computed spectra at 5% damping for the LTSP component H2.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 35 of 63

Date: 10/22/01

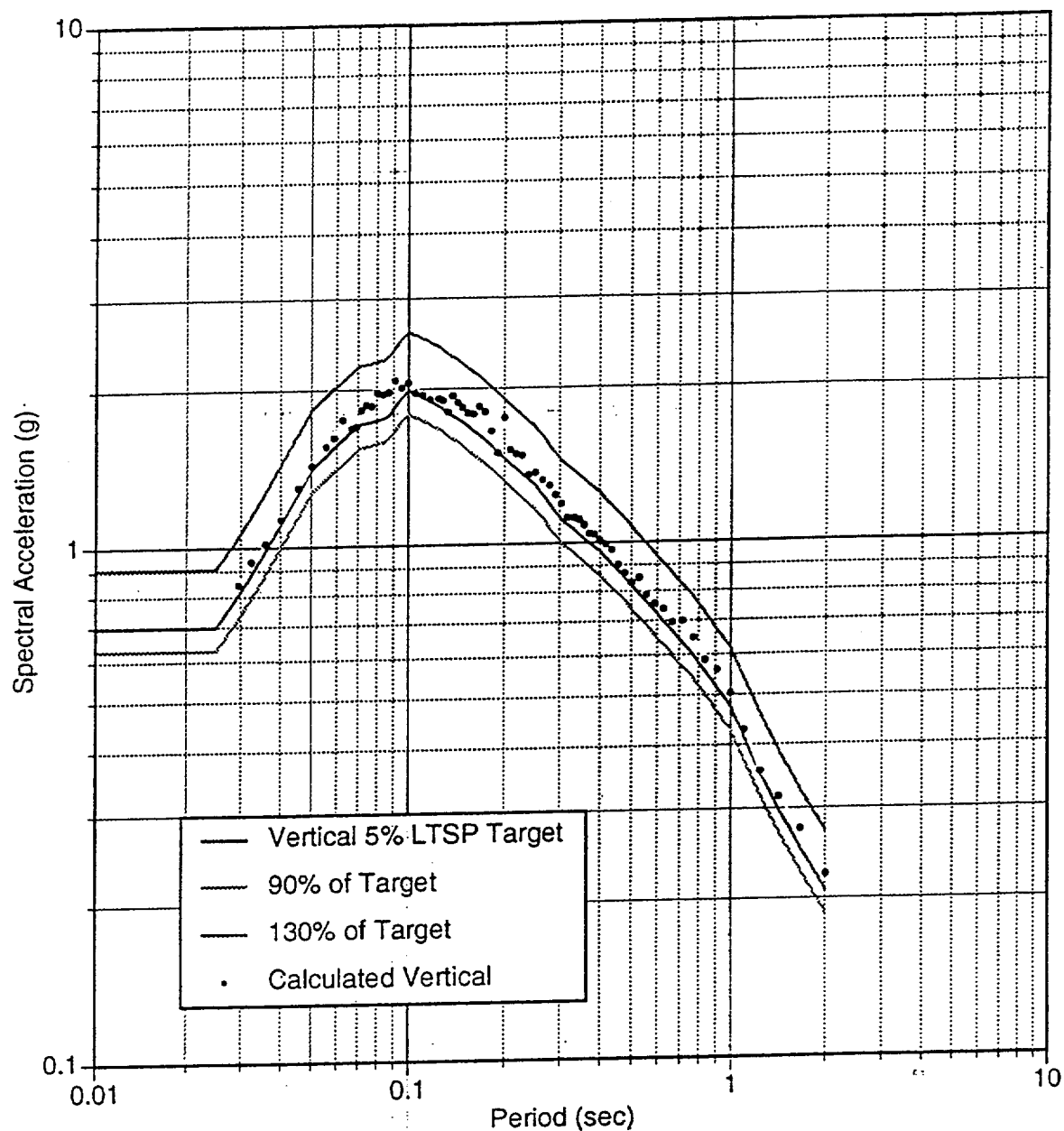


Figure 6-5c. Comparison of the target and computed spectra at 5% damping for the LTSP component Z.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 36 of 63

Date: 10/22/01

Table 6-3. Comparison of calculated and target spectra values for 5% damping for the HE.

Period (sec)	Freq (Hz)	Spectral Acc (g)					Ratio		
		Calculated	Calculated	Calculated	HE Spectrum	HE Spectrum	Calculated / HE Spectrum		
		H1	H2	Z	Horiz	Vertical	H1	H2	Z
0.02941	34.000	0.879	0.870	0.572	0.750	0.500	1.17	1.16	1.14
0.03226	31.000	0.893	0.877	0.580	0.784	0.523	1.14	1.12	1.11
0.03571	28.000	0.907	0.883	0.592	0.842	0.561	1.08	1.05	1.05
0.04000	25.000	0.926	1.024	0.626	0.912	0.608	1.02	1.12	1.03
0.04545	22.000	1.178	1.082	0.703	0.997	0.665	1.18	1.08	1.06
0.05000	20.000	1.417	1.105	0.732	1.067	0.711	1.33	1.04	1.03
0.05556	18.000	1.272	1.287	0.824	1.149	0.766	1.11	1.12	1.08
0.05882	17.000	1.335	1.295	0.884	1.195	0.797	1.12	1.08	1.11
0.06250	16.000	1.393	1.360	1.000	1.268	0.845	1.10	1.07	1.18
0.06667	15.000	1.404	1.404	1.068	1.306	0.871	1.08	1.08	1.23
0.06897	14.500	1.411	1.477	1.060	1.334	0.889	1.06	1.11	1.19
0.07143	14.000	1.463	1.536	1.046	1.371	0.914	1.07	1.12	1.14
0.07407	13.500	1.627	1.584	1.047	1.408	0.939	1.16	1.13	1.12
0.07692	13.000	1.758	1.597	1.023	1.444	0.963	1.22	1.11	1.06
0.08000	12.500	1.670	1.473	1.051	1.489	0.993	1.12	0.99	1.06
0.08333	12.000	1.829	1.612	1.153	1.528	1.019	1.20	1.05	1.13
0.08696	11.500	1.835	1.631	1.117	1.574	1.049	1.17	1.04	1.06
0.09091	11.000	1.812	1.739	1.173	1.624	1.083	1.12	1.07	1.08
0.09524	10.500	1.910	1.845	1.192	1.678	1.119	1.14	1.10	1.07
0.10000	10.000	2.074	1.854	1.255	1.737	1.158	1.19	1.07	1.08
0.10526	9.500	2.120	1.981	1.310	1.801	1.201	1.18	1.10	1.09
0.11111	9.000	2.179	1.954	1.333	1.870	1.247	1.17	1.04	1.07
0.11765	8.500	2.048	2.031	1.391	1.947	1.298	1.05	1.04	1.07
0.12500	8.000	2.194	2.197	1.438	2.032	1.355	1.08	1.08	1.06
0.12903	7.750	2.255	2.160	1.432	2.032	1.355	1.11	1.06	1.06
0.13333	7.500	2.240	2.261	1.431	2.032	1.355	1.10	1.11	1.06
0.13793	7.250	2.241	2.211	1.505	2.032	1.355	1.10	1.09	1.11
0.14286	7.000	2.133	2.118	1.474	2.032	1.355	1.05	1.04	1.09
0.14815	6.750	2.191	2.144	1.461	2.032	1.355	1.08	1.06	1.08
0.15385	6.500	2.094	2.093	1.441	2.032	1.355	1.03	1.03	1.06
0.16000	6.250	2.192	2.181	1.445	2.032	1.355	1.08	1.07	1.07
0.16667	6.000	2.195	2.161	1.498	2.032	1.355	1.08	1.06	1.11
0.17391	5.750	2.134	2.205	1.400	2.032	1.355	1.05	1.09	1.03
0.18182	5.500	2.206	2.176	1.405	2.044	1.363	1.08	1.06	1.03
0.19048	5.250	2.141	2.196	1.435	2.061	1.374	1.04	1.07	1.04
0.20000	5.000	2.173	2.352	1.420	2.080	1.387	1.04	1.13	1.02
0.20833	4.800	2.151	2.213	1.411	2.092	1.395	1.03	1.06	1.01

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 37 of 63

Date: 10/22/01

Table 6-3 (cont).

Period	Freq	Spectral Acc (g)					Ratio		
		Calculated	Calculated	Calculated	HE Spectrum	HE Spectrum	Calculated / HE Spectrum		
		H1	H2	Z	Horiz	Vertical	H1	H2	Z
0.21739	4.600	2.211	2.229	1.493	2.106	1.404	1.05	1.06	1.06
0.22727	4.400	2.152	2.330	1.633	2.117	1.411	1.02	1.10	1.16
0.23810	4.200	2.138	2.164	1.487	2.128	1.419	1.00	1.02	1.05
0.25000	4.000	2.161	2.403	1.510	2.125	1.417	1.02	1.13	1.07
0.26316	3.800	2.139	2.278	1.435	2.118	1.412	1.01	1.08	1.02
0.27778	3.600	2.161	2.265	1.485	2.111	1.407	1.02	1.07	1.05
0.28986	3.450	2.161	2.322	1.417	2.095	1.397	1.03	1.11	1.01
0.30303	3.300	2.148	2.176	1.481	2.075	1.383	1.04	1.05	1.07
0.31746	3.150	2.201	2.289	1.453	2.054	1.369	1.07	1.11	1.06
0.33333	3.000	2.175	2.137	1.486	2.032	1.355	1.07	1.05	1.10
0.34483	2.900	2.144	2.231	1.503	2.032	1.355	1.05	1.10	1.11
0.35714	2.800	2.161	2.142	1.486	2.032	1.355	1.06	1.05	1.10
0.37037	2.700	2.121	2.192	1.429	2.032	1.355	1.04	1.08	1.05
0.38462	2.600	2.200	2.241	1.469	2.032	1.355	1.08	1.10	1.08
0.40000	2.500	2.158	2.163	1.481	2.032	1.355	1.06	1.06	1.09
0.41667	2.400	2.177	2.209	1.482	2.032	1.355	1.07	1.09	1.09
0.43478	2.300	2.164	2.195	1.461	2.032	1.355	1.07	1.08	1.08
0.45455	2.200	2.077	2.036	1.388	1.975	1.317	1.05	1.03	1.05
0.47619	2.100	1.989	1.991	1.311	1.885	1.257	1.06	1.06	1.04
0.50000	2.000	1.913	1.744	1.210	1.795	1.197	1.07	0.97	1.01
0.52632	1.900	1.734	1.878	1.185	1.705	1.137	1.02	1.10	1.04
0.55556	1.800	1.638	1.772	1.104	1.616	1.077	1.01	1.10	1.03
0.58824	1.700	1.623	1.557	1.034	1.526	1.017	1.06	1.02	1.02
0.62500	1.600	1.447	1.477	1.020	1.436	0.957	1.01	1.03	1.07
0.66667	1.500	1.442	1.357	0.894	1.346	0.897	1.07	1.01	1.00
0.71429	1.400	1.264	1.309	0.877	1.257	0.838	1.01	1.04	1.05
0.76923	1.300	1.303	1.174	0.791	1.167	0.778	1.12	1.01	1.02
0.83333	1.200	1.038	1.121	0.742	1.077	0.718	0.96	1.04	1.03

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 38 of 63

Date: 10/22/01

Table 6-4. Calculated spectra values for 5% damping for the LTSP.

Period (sec)	Freq (Hz)	Spectral Acc (g)					Ratio		
		Calculated	Calculated	Calculated	LTSP Spectrum	LTSP Spectrum	Calculated / LTSP Spectrum		
		H1	H2	Z	Horiz	Vertical	H1	(sec)	(Hz)
0.0294	34.000	0.916	0.910	0.847	0.830	0.808	1.104	1.096	1.048
0.0323	31.000	0.922	0.917	0.939	0.858	0.886	1.075	1.069	1.060
0.0357	28.000	0.953	0.972	1.018	0.907	0.985	1.051	1.072	1.034
0.0400	25.000	0.988	1.011	1.130	0.964	1.109	1.025	1.049	1.019
0.0455	22.000	1.044	1.069	1.297	1.045	1.273	0.999	1.023	1.019
0.0500	20.000	1.173	1.104	1.433	1.110	1.410	1.057	0.995	1.016
0.0556	18.000	1.161	1.228	1.556	1.179	1.498	0.985	1.042	1.039
0.0588	17.000	1.197	1.212	1.617	1.218	1.548	0.983	0.995	1.045
0.0625	16.000	1.239	1.269	1.754	1.260	1.603	0.983	1.007	1.094
0.0667	15.000	1.309	1.314	1.685	1.307	1.664	1.002	1.005	1.013
0.0690	14.500	1.349	1.348	1.698	1.333	1.697	1.012	1.011	1.001
0.0714	14.000	1.369	1.388	1.830	1.360	1.716	1.007	1.021	1.066
0.0741	13.500	1.427	1.421	1.871	1.390	1.725	1.027	1.022	1.085
0.0769	13.000	1.448	1.430	1.861	1.421	1.735	1.019	1.006	1.073
0.0800	12.500	1.438	1.473	1.972	1.455	1.745	0.988	1.012	1.130
0.0833	12.000	1.478	1.525	1.959	1.490	1.755	0.992	1.023	1.116
0.0870	11.500	1.529	1.567	1.977	1.527	1.790	1.001	1.026	1.104
0.0909	11.000	1.549	1.562	2.081	1.567	1.852	0.989	0.997	1.124
0.0952	10.500	1.574	1.623	2.017	1.609	1.919	0.978	1.009	1.051
0.1000	10.000	1.658	1.630	2.060	1.654	1.992	1.002	0.985	1.034
0.1053	9.500	1.723	1.726	1.968	1.699	1.962	1.014	1.016	1.003
0.1111	9.000	1.747	1.740	1.949	1.747	1.931	1.000	0.996	1.009
0.1176	8.500	1.762	1.780	1.910	1.800	1.898	0.979	0.989	1.006
0.1250	8.000	1.860	1.912	1.917	1.844	1.854	1.009	1.037	1.034
0.1290	7.750	1.936	1.872	1.901	1.865	1.828	1.038	1.004	1.040
0.1333	7.500	1.941	1.977	1.806	1.886	1.802	1.029	1.048	1.002
0.1379	7.250	1.910	1.934	1.938	1.908	1.776	1.001	1.014	1.091
0.1429	7.000	1.866	1.916	1.882	1.926	1.750	0.969	0.995	1.075
0.1481	6.750	1.904	1.970	1.840	1.942	1.725	0.980	1.014	1.067
0.1538	6.500	1.930	1.940	1.795	1.953	1.694	0.988	0.993	1.060
0.1600	6.250	1.950	1.959	1.789	1.962	1.659	0.994	0.998	1.078
0.1667	6.000	1.981	1.994	1.848	1.971	1.624	1.005	1.012	1.138
0.1739	5.750	1.968	2.006	1.804	1.980	1.587	0.994	1.013	1.137
0.1818	5.500	2.068	2.051	1.655	1.988	1.547	1.040	1.032	1.070
0.1905	5.250	1.977	2.126	1.502	1.997	1.506	0.990	1.065	0.997
0.2000	5.000	2.071	2.202	1.755	2.006	1.465	1.032	1.098	1.198

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 39 of 63

Date: 10/22/01

Table 6-4 (cont).

Period (sec)	Freq (Hz)	Spectral Acc (g)					Ratio		
		Calculated	Calculated	Calculated	LTSP Spectrum	LTSP Spectrum	Calculated / LTSP Spectrum		
		H1	H2	Z	Horiz	Vertical	H1	H2	Z
0.2083	4.800	2.000	2.022	1.521	2.008	1.432	0.996	1.007	1.062
0.2174	4.600	2.080	2.021	1.493	2.009	1.399	1.035	1.006	1.067
0.2273	4.400	1.999	2.062	1.483	2.011	1.365	0.994	1.025	1.086
0.2381	4.200	1.998	2.044	1.358	2.013	1.330	0.993	1.015	1.021
0.2500	4.000	2.028	2.136	1.372	2.015	1.295	1.006	1.060	1.059
0.2632	3.800	1.992	2.001	1.325	2.000	1.265	0.996	1.001	1.067
0.2778	3.600	2.004	2.008	1.293	1.984	1.216	1.010	1.012	1.087
0.2899	3.450	2.003	2.055	1.240	1.972	1.185	1.016	1.042	1.079
0.3030	3.300	1.956	1.946	1.191	1.955	1.153	1.001	0.995	1.072
0.3175	3.150	1.990	2.117	1.119	1.922	1.118	1.035	1.101	1.032
0.3333	3.000	1.936	1.857	1.118	1.887	1.083	1.026	0.984	1.058
0.3448	2.900	1.856	1.932	1.107	1.863	1.059	0.996	1.037	1.066
0.3571	2.800	1.841	1.881	1.082	1.839	1.035	1.001	1.023	1.061
0.3704	2.700	1.820	1.803	1.042	1.814	1.011	1.003	0.994	1.031
0.3846	2.600	1.795	1.813	1.037	1.789	0.986	1.003	1.013	1.057
0.4000	2.500	1.781	1.742	1.011	1.763	0.961	1.010	0.988	1.052
0.4167	2.400	1.707	1.732	0.993	1.723	0.934	0.991	1.005	1.063
0.4348	2.300	1.692	1.726	0.968	1.682	0.907	1.006	1.026	1.067
0.4545	2.200	1.653	1.643	0.904	1.640	0.879	1.008	1.002	1.028
0.3704	2.700	1.820	1.803	1.042	1.814	1.000	1.003	0.994	1.042
0.4762	2.100	1.624	1.649	0.871	1.597	0.851	1.017	1.033	1.024
0.5000	2.000	1.604	1.549	0.833	1.554	0.823	1.032	0.997	1.012
0.5263	1.900	1.490	1.509	0.852	1.489	0.793	1.001	1.013	1.074
0.5556	1.800	1.434	1.444	0.788	1.424	0.762	1.007	1.014	1.034
0.5882	1.700	1.442	1.400	0.757	1.359	0.731	1.061	1.030	1.036
0.6250	1.600	1.317	1.348	0.738	1.292	0.699	1.019	1.043	1.056
0.6667	1.500	1.315	1.275	0.697	1.225	0.667	1.073	1.041	1.045
0.7143	1.400	1.173	1.230	0.700	1.157	0.634	1.014	1.063	1.104
0.7690	1.300	1.181	1.127	0.649	1.090	0.599	1.083	1.034	1.083
0.8330	1.200	0.983	1.034	0.587	1.024	0.558	0.960	1.010	1.052
0.9090	1.100	0.930	0.933	0.561	0.958	0.516	0.971	0.974	1.087
1.0000	1.000	0.843	0.851	0.504	0.890	0.474	0.947	0.956	1.063

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 40 of 63

Date: 10/22/01

Table 6-4 (cont).

Period (sec)	Freq (Hz)	Spectral Acc (g)					Ratio		
		Calculated	Calculated	Calculated	LTSP Spectrum	LTSP Spectrum	Calculated / LTSP Spectrum		
		H1	H2	Z	Horiz	Vertical	H1	H2	Z
1.1110	0.900	0.748	0.760	0.428	0.795	0.413	0.941	0.956	1.036
1.2500	0.800	0.656	0.670	0.356	0.701	0.355	0.936	0.956	1.003
1.4290	0.700	0.583	0.594	0.317	0.608	0.298	0.959	0.977	1.064
1.6670	0.600	0.491	0.496	0.274	0.504	0.251	0.974	0.984	1.092
2.0000	0.500	0.391	0.398	0.223	0.400	0.207	0.978	0.995	1.077

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 41 of 63

Date: 10/22/01

Table 6-5. Evaluation of the PEA time histories for meeting the objective of the PSD criteria.

Earthquake	Damping	Component	Minimum Ratio to Target	Maximum Ratio to Target	Maximum Ratio Divided by the Minimum Ratio
HE	5%	H1	0.96	1.33	1.39
HE	5%	H2	0.97	1.16	1.20
HE	5%	Z	1.00	1.23	1.23
LTSP	5%	H1	0.936	1.104	1.18
LTSP	5%	H2	0.956	1.096	1.15
LTSP	5%	Z	0.997	1.198	1.20

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 42 of 63

Date: 10/22/01

6.5 Statistical Independence

The Work Plan requires that 3 components for each set of ground motions be statistically independent. This cross correlation is computed using eq. (5-1). The resulting absolute values of the cross-correlation are listed in Table 6-6. All of the sets meet the criteria that the cross-correlation is less than 0.3.

Table 6-6. Cross-correlation of acceleration

Components	Earthquake	
	HE	LTSP
H1-H2	0.01	0.05
H1-Z	0.04	0.04
H2-Z	0.15	0.12

6.6 Determine if the Spectra Envelope the Target Spectra6.6.1 A: Compute the response spectral values

The spectra for damping values of 4% and 7% for the HE are computed using the program SPCTLR.EXE. The resulting spectral values are listed in Tables 6-7, and 6-8 for 4%, and 7% damping, respectively. The spectra at 5% damping were computed in 6.4.1A and are listed in Tables 6-3 and 6-4.

6.6.1 B. Determine the number of spectral values that fall below the target

The computed spectra are compared to the target spectra for each damping value and for each component in Figures 6-6a-c, 6-7a-c, and 6-8a-c for the HE at damping values of 4%, 5%, and 7% and in Figures 6-9a-c for the LTSP at a damping value of 5%.

The number of point below the target and the minimum and maximum ratios of the computed spectral to the target spectra are listed in Table 6-9.

As shown in Table 6-9, the PEA time histories for the HE meet the criteria for enveloping the HE spectra at 4% and 5% damping, but not at 7% damping. The PEA time histories for the LTSP do not meet the enveloping criteria at 5% damping.

Scale factors were derived such that the spectra of the scaled time histories will meet the criteria for enveloping the design spectra. These factors are listed in Table 6-10.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 43 of 63

Date: 10/22/01

Table 6-7. Calculated spectra values for 4% HE.

Period	Freq	Spectral Acc (g)					Ratio		
		Calculated	Calculated	Calculated	HE Spectrum	HE Spectrum	Calculated / HE Spectrum		
		H1	H2	Z	Horizontal	Vertical	H1	H2	Z
0.02941	34.000	0.881	0.871	0.573	0.750	0.500	1.17	1.16	1.15
0.03226	31.000	0.896	0.880	0.581	0.787	0.525	1.14	1.12	1.11
0.03571	28.000	0.910	0.882	0.596	0.851	0.567	1.07	1.04	1.05
0.04000	25.000	0.937	1.067	0.662	0.928	0.619	1.01	1.15	1.07
0.04545	22.000	1.314	1.131	0.741	1.023	0.682	1.28	1.11	1.09
0.05000	20.000	1.577	1.167	0.761	1.101	0.734	1.43	1.06	1.04
0.05556	18.000	1.329	1.378	0.897	1.194	0.796	1.11	1.15	1.13
0.05882	17.000	1.468	1.375	0.956	1.246	0.831	1.18	1.10	1.15
0.06250	16.000	1.480	1.442	1.120	1.317	0.878	1.12	1.09	1.28
0.06667	15.000	1.449	1.492	1.187	1.373	0.915	1.06	1.09	1.30
0.06897	14.500	1.436	1.539	1.209	1.407	0.938	1.02	1.09	1.29
0.07143	14.000	1.511	1.601	1.105	1.447	0.965	1.04	1.11	1.15
0.07407	13.500	1.783	1.672	1.101	1.489	0.993	1.20	1.12	1.11
0.07692	13.000	1.934	1.711	1.069	1.531	1.021	1.26	1.12	1.05
0.08000	12.500	1.783	1.620	1.151	1.581	1.054	1.13	1.02	1.09
0.08333	12.000	1.970	1.763	1.251	1.629	1.086	1.21	1.08	1.15
0.08696	11.500	2.006	1.833	1.222	1.681	1.121	1.19	1.09	1.09
0.09091	11.000	1.968	2.008	1.263	1.741	1.161	1.13	1.15	1.09
0.09524	10.500	2.059	1.997	1.233	1.804	1.203	1.14	1.11	1.02
0.10000	10.000	2.213	2.044	1.348	1.873	1.249	1.18	1.09	1.08
0.10526	9.500	2.356	2.181	1.420	1.948	1.299	1.21	1.12	1.09
0.11111	9.000	2.432	2.093	1.407	2.030	1.353	1.20	1.03	1.04
0.11765	8.500	2.261	2.230	1.465	2.121	1.414	1.07	1.05	1.04
0.12500	8.000	2.380	2.495	1.586	2.222	1.481	1.07	1.12	1.07
0.12903	7.750	2.431	2.378	1.568	2.222	1.481	1.09	1.07	1.06
0.13333	7.500	2.396	2.511	1.604	2.222	1.481	1.08	1.13	1.08
0.13793	7.250	2.479	2.466	1.611	2.222	1.481	1.12	1.11	1.09
0.14286	7.000	2.291	2.278	1.535	2.222	1.481	1.03	1.03	1.04
0.14815	6.750	2.457	2.316	1.519	2.222	1.481	1.11	1.04	1.03
0.15385	6.500	2.328	2.321	1.491	2.222	1.481	1.05	1.04	1.01
0.16000	6.250	2.349	2.460	1.497	2.222	1.481	1.06	1.11	1.01
0.16667	6.000	2.355	2.367	1.609	2.222	1.481	1.06	1.07	1.09
0.17391	5.750	2.437	2.423	1.583	2.222	1.481	1.10	1.09	1.07
0.18182	5.500	2.406	2.447	1.606	2.222	1.481	1.08	1.10	1.08
0.19048	5.250	2.374	2.400	1.637	2.222	1.481	1.07	1.08	1.10
0.20000	5.000	2.411	2.728	1.590	2.222	1.481	1.08	1.23	1.07
0.20833	4.800	2.342	2.400	1.555	2.237	1.491	1.05	1.07	1.04
0.21739	4.600	2.509	2.381	1.582	2.255	1.503	1.11	1.06	1.05

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 44 of 63

Date: 10/22/01

Table 6-7 (cont).

Period	Freq	Spectral Acc (g)					Ratio		
		Calculated	Calculated	Calculated	HE Spectrum	HE Spectrum	Calculated / HE Spectrum		
		H1	H2	Z	Horizontal	Vertical	H1	H2	Z
0.22727	4.400	2.479	2.678	1.770	2.271	1.514	1.09	1.18	1.17
0.23810	4.200	2.318	2.409	1.606	2.287	1.525	1.01	1.05	1.05
0.25000	4.000	2.302	2.580	1.638	2.290	1.527	1.01	1.13	1.07
0.26316	3.800	2.407	2.381	1.622	2.288	1.525	1.05	1.04	1.06
0.27778	3.600	2.321	2.387	1.684	2.281	1.521	1.02	1.05	1.11
0.28986	3.450	2.315	2.500	1.507	2.265	1.510	1.02	1.10	1.00
0.30303	3.300	2.452	2.457	1.553	2.245	1.497	1.09	1.09	1.04
0.31746	3.150	2.342	2.637	1.496	2.224	1.483	1.05	1.19	1.01
0.33333	3.000	2.386	2.398	1.545	2.222	1.481	1.07	1.08	1.04
0.34483	2.900	2.357	2.497	1.574	2.222	1.481	1.06	1.12	1.06
0.35714	2.800	2.338	2.366	1.563	2.222	1.481	1.05	1.06	1.06
0.37037	2.700	2.309	2.362	1.537	2.222	1.481	1.04	1.06	1.04
0.38462	2.600	2.468	2.377	1.579	2.222	1.481	1.11	1.07	1.07
0.40000	2.500	2.360	2.382	1.562	2.222	1.481	1.06	1.07	1.05
0.41667	2.400	2.498	2.346	1.582	2.222	1.481	1.12	1.06	1.07
0.43478	2.300	2.505	2.382	1.589	2.198	1.465	1.14	1.08	1.08
0.45455	2.200	2.382	2.243	1.567	2.115	1.410	1.13	1.06	1.11
0.47619	2.100	2.137	2.207	1.472	2.020	1.347	1.06	1.09	1.09
0.50000	2.000	2.039	1.963	1.369	1.924	1.283	1.06	1.02	1.07
0.52632	1.900	1.912	2.060	1.315	1.828	1.219	1.05	1.13	1.08
0.55556	1.800	1.720	2.001	1.275	1.732	1.155	0.99	1.16	1.10
0.58824	1.700	1.759	1.749	1.161	1.636	1.091	1.08	1.07	1.06
0.62500	1.600	1.564	1.588	1.129	1.539	1.026	1.02	1.03	1.10
0.66667	1.500	1.535	1.427	1.016	1.443	0.962	1.06	0.99	1.06
0.71429	1.400	1.391	1.389	0.936	1.347	0.898	1.03	1.03	1.04
0.76923	1.300	1.410	1.244	0.867	1.251	0.834	1.13	0.99	1.04
0.83333	1.200	1.098	1.222	0.894	1.154	0.769	0.95	1.06	1.16

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 45 of 63

Date: 10/22/01

Table 6-8. Calculated spectra values for 7% HE.

Period	Freq	Spectral Acc (g)					Ratio		
		Calculated	Calculated	Calculated	HE Spectrum	HE Spectrum	Calculated / HE Spectrum		
		H1	H2	Z	Horizontal	Vertical	H1	H2	Z
0.02941	34.000	0.875	0.867	0.571	0.750	0.500	1.17	1.16	1.14
0.03226	31.000	0.887	0.875	0.577	0.779	0.519	1.14	1.12	1.11
0.03571	28.000	0.900	0.883	0.585	0.830	0.553	1.08	1.06	1.06
0.04000	25.000	0.903	0.960	0.583	0.890	0.593	1.01	1.08	0.98
0.04545	22.000	1.008	1.006	0.657	0.963	0.642	1.05	1.04	1.02
0.05000	20.000	1.198	1.054	0.694	1.022	0.681	1.17	1.03	1.02
0.05556	18.000	1.186	1.161	0.755	1.091	0.727	1.09	1.06	1.04
0.05882	17.000	1.199	1.196	0.787	1.130	0.753	1.06	1.06	1.04
0.06250	16.000	1.257	1.245	0.833	1.173	0.782	1.07	1.06	1.07
0.06667	15.000	1.331	1.294	0.889	1.221	0.814	1.09	1.06	1.09
0.06897	14.500	1.355	1.361	0.896	1.246	0.831	1.09	1.09	1.08
0.07143	14.000	1.384	1.421	0.939	1.274	0.849	1.09	1.12	1.11
0.07407	13.500	1.435	1.447	0.954	1.303	0.869	1.10	1.11	1.10
0.07692	13.000	1.518	1.439	0.944	1.334	0.889	1.14	1.08	1.06
0.08000	12.500	1.480	1.342	0.967	1.366	0.911	1.08	0.98	1.06
0.08333	12.000	1.600	1.375	1.003	1.401	0.934	1.14	0.98	1.07
0.08696	11.500	1.610	1.358	0.962	1.438	0.959	1.12	0.94	1.00
0.09091	11.000	1.609	1.396	1.041	1.478	0.985	1.09	0.94	1.06
0.09524	10.500	1.668	1.621	1.095	1.522	1.015	1.10	1.06	1.08
0.10000	10.000	1.809	1.616	1.125	1.568	1.045	1.15	1.03	1.08
0.10526	9.500	1.791	1.721	1.144	1.619	1.079	1.11	1.06	1.06
0.11111	9.000	1.815	1.705	1.208	1.674	1.116	1.08	1.02	1.08
0.11765	8.500	1.745	1.731	1.258	1.734	1.156	1.01	1.00	1.09
0.12500	8.000	1.909	1.820	1.274	1.800	1.200	1.06	1.01	1.06
0.12903	7.750	1.964	1.837	1.240	1.800	1.200	1.09	1.02	1.03
0.13333	7.500	1.954	1.907	1.255	1.800	1.200	1.09	1.06	1.05
0.13793	7.250	1.887	1.870	1.340	1.800	1.200	1.05	1.04	1.12
0.14286	7.000	1.886	1.872	1.356	1.800	1.200	1.05	1.04	1.13
0.14815	6.750	1.899	1.849	1.356	1.800	1.200	1.05	1.03	1.13
0.15385	6.500	1.909	1.848	1.346	1.800	1.200	1.06	1.03	1.12
0.16000	6.250	1.939	1.866	1.341	1.800	1.200	1.08	1.04	1.12
0.16667	6.000	1.905	1.836	1.330	1.800	1.200	1.06	1.02	1.11
0.17391	5.750	1.787	1.935	1.192	1.800	1.200	0.99	1.08	0.99
0.18182	5.500	1.861	1.953	1.152	1.800	1.200	1.03	1.09	0.96
0.19048	5.250	1.812	1.906	1.173	1.800	1.200	1.01	1.06	0.98
0.20000	5.000	1.864	1.937	1.183	1.800	1.200	1.04	1.08	0.99
0.20833	4.800	1.843	2.009	1.226	1.804	1.203	1.02	1.11	1.02
0.21739	4.600	1.798	1.989	1.333	1.809	1.206	0.99	1.10	1.11

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 46 of 63

Date: 10/22/01

Table 6-8 (cont).

Period	Freq	Spectral Acc (g)					Ratio		
		Calculated	Calculated	Calculated	HE Spectrum	HE Spectrum	Calculated / HE Spectrum		
		H1	H2	Z	Horizontal	Vertical	H1	H2	Z
0.22727	4.400	1.707	1.995	1.421	1.814	1.209	0.94	1.10	1.17
0.23810	4.200	1.864	1.906	1.339	1.818	1.212	1.03	1.05	1.10
0.25000	4.000	1.920	2.115	1.316	1.815	1.210	1.06	1.17	1.09
0.26316	3.800	1.901	2.085	1.266	1.808	1.205	1.05	1.15	1.05
0.27778	3.600	1.902	2.047	1.285	1.801	1.201	1.06	1.14	1.07
0.28986	3.450	1.875	2.012	1.330	1.800	1.200	1.04	1.12	1.11
0.30303	3.300	1.823	1.930	1.366	1.800	1.200	1.01	1.07	1.14
0.31746	3.150	1.976	1.915	1.364	1.800	1.200	1.10	1.06	1.14
0.33333	3.000	1.945	1.747	1.376	1.800	1.200	1.08	0.97	1.15
0.34483	2.900	1.806	1.833	1.378	1.800	1.200	1.00	1.02	1.15
0.35714	2.800	1.853	1.819	1.360	1.800	1.200	1.03	1.01	1.13
0.37037	2.700	1.824	1.962	1.333	1.800	1.200	1.01	1.09	1.11
0.38462	2.600	1.845	2.017	1.333	1.800	1.200	1.02	1.12	1.11
0.40000	2.500	1.823	1.989	1.328	1.800	1.200	1.01	1.10	1.11
0.41667	2.400	1.769	1.973	1.303	1.800	1.200	0.98	1.10	1.09
0.43478	2.300	1.731	1.903	1.246	1.800	1.200	0.96	1.06	1.04
0.45455	2.200	1.677	1.701	1.122	1.800	1.200	0.93	0.95	0.94
0.47619	2.100	1.721	1.659	1.069	1.707	1.138	1.01	0.97	0.94
0.50000	2.000	1.694	1.521	0.990	1.626	1.084	1.04	0.94	0.91
0.52632	1.900	1.584	1.575	1.000	1.545	1.030	1.03	1.02	0.97
0.55556	1.800	1.494	1.432	0.950	1.464	0.976	1.02	0.98	0.97
0.58824	1.700	1.404	1.278	0.855	1.382	0.921	1.02	0.92	0.93
0.62500	1.600	1.289	1.295	0.851	1.301	0.867	0.99	1.00	0.98
0.66667	1.500	1.317	1.228	0.760	1.220	0.813	1.08	1.01	0.93
0.71429	1.400	1.159	1.168	0.780	1.138	0.759	1.02	1.03	1.03
0.76923	1.300	1.117	1.048	0.699	1.057	0.705	1.06	0.99	0.99
0.83333	1.200	0.952	0.949	0.578	0.976	0.651	0.97	0.97	0.89

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 47 of 63

Date: 10/22/01

Table 6-9. Evaluation of the spectral fit for PEA time histories.

Earthquake	Damping	Component	Number of Points Below Spectrum	Minimum Ratio
HE	4%	H1	2	0.95
HE	4%	H2	2	0.99
HE	4%	Z	0	1.00
HE	5%	H1	1	0.96
HE	5%	H2	2	0.97
HE	5%	Z	0	1.00
HE	7%	H1	8	0.93
HE	7%	H2	12	0.92
HE	7%	Z	15	0.89
LTSP	5%	H1	29	0.936
LTSP	5%	H2	21	0.956
LTSP	5%	Z	1	0.997

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 48 of 63

Date: 10/22/01

Table 6-10. Evaluation of the spectral fit for the scaled PEA time histories

Earthquake	Damping	Component	Scale Factor	Number of Points Below Spectrum	Minimum Ratio
HE	4%	H1	1.00	2	0.95
HE	4%	H2	1.00	2	0.99
HE	4%	Z	1.00	0	1.00
HE	5%	H1	1.00	1	0.96
HE	5%	H2	1.00	2	0.97
HE	5%	Z	1.00	0	1.00
HE	7%	H1	1.02	4	0.95
HE	7%	H2	1.06	2	0.98
HE	7%	Z	1.07	3	0.95
LTSP	5%	H1	1.05	3	0.983
LTSP	5%	H2	1.03	3	0.984
LTSP	5%	Z	1.00	1	0.997

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 49 of 63

Date: 10/22/01

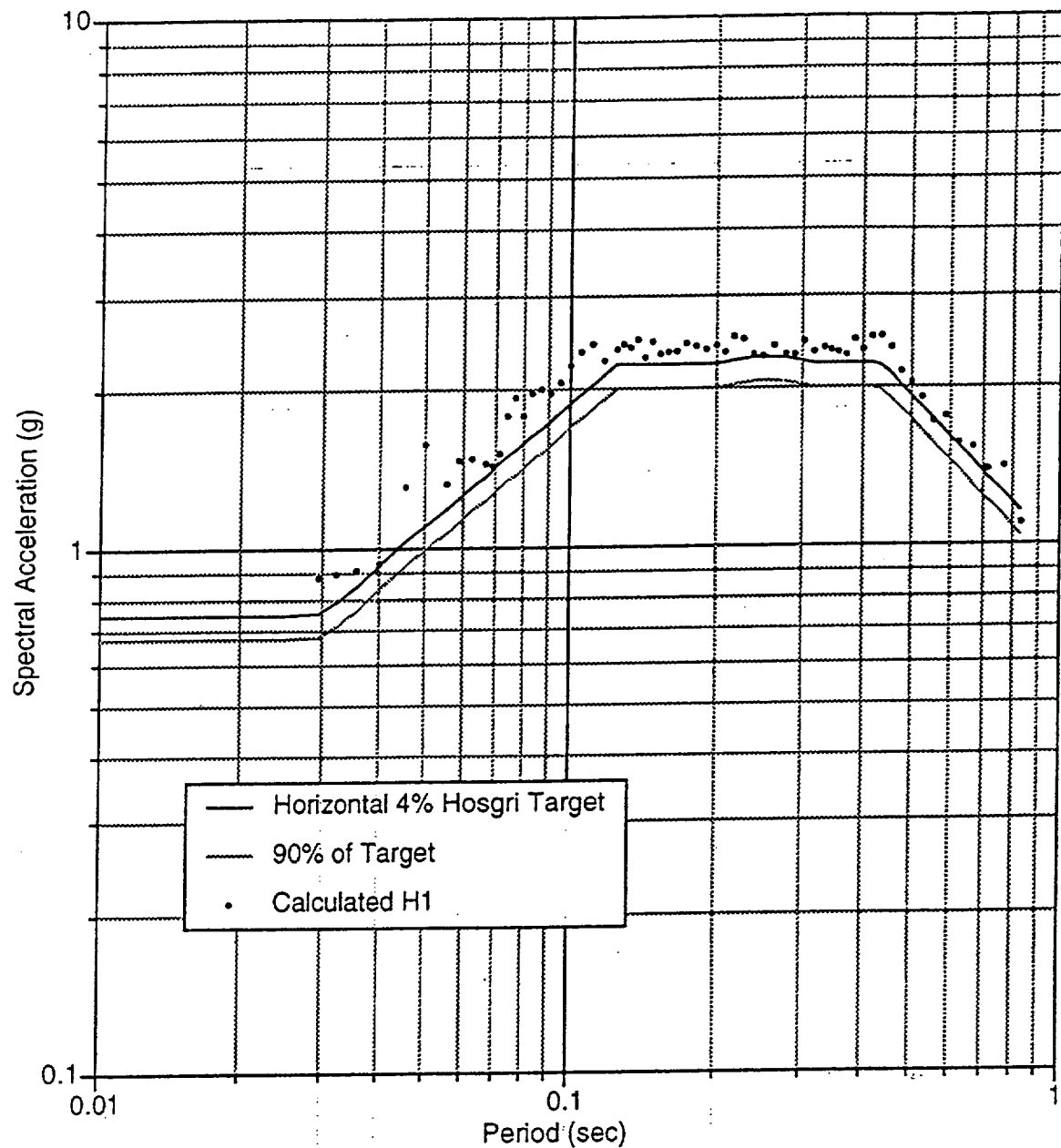


Figure 6-6a. Comparison of the spectra for the PEA time history for the HE component H1 at 4% damping to the HE target spectrum.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 50 of 63

Date: 10/22/01

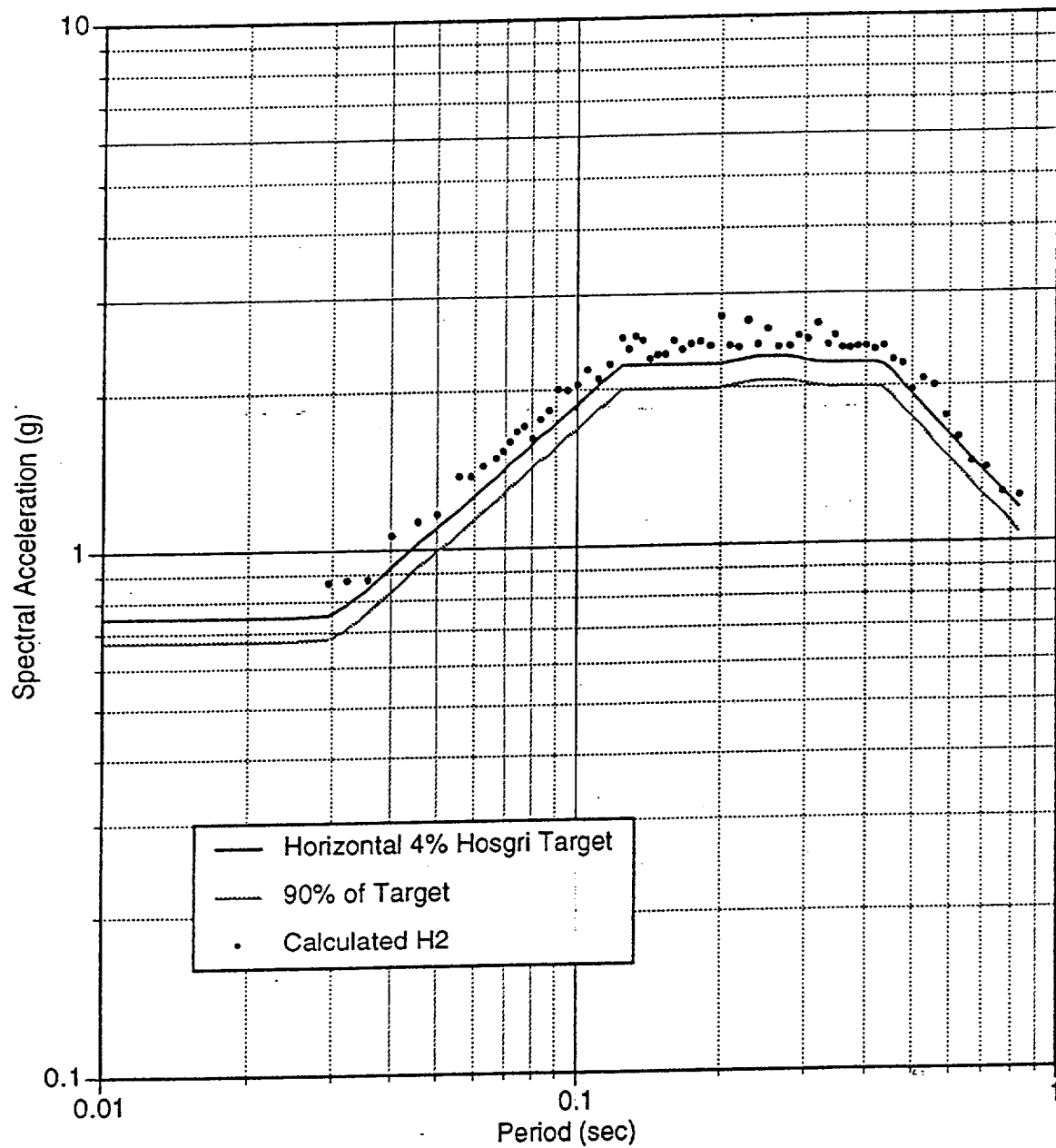


Figure 6-6b. Comparison of the spectra for the PEA time history for the HE component H2 at 4% damping to the HE target spectrum.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 51 of 63

Date: 10/22/01

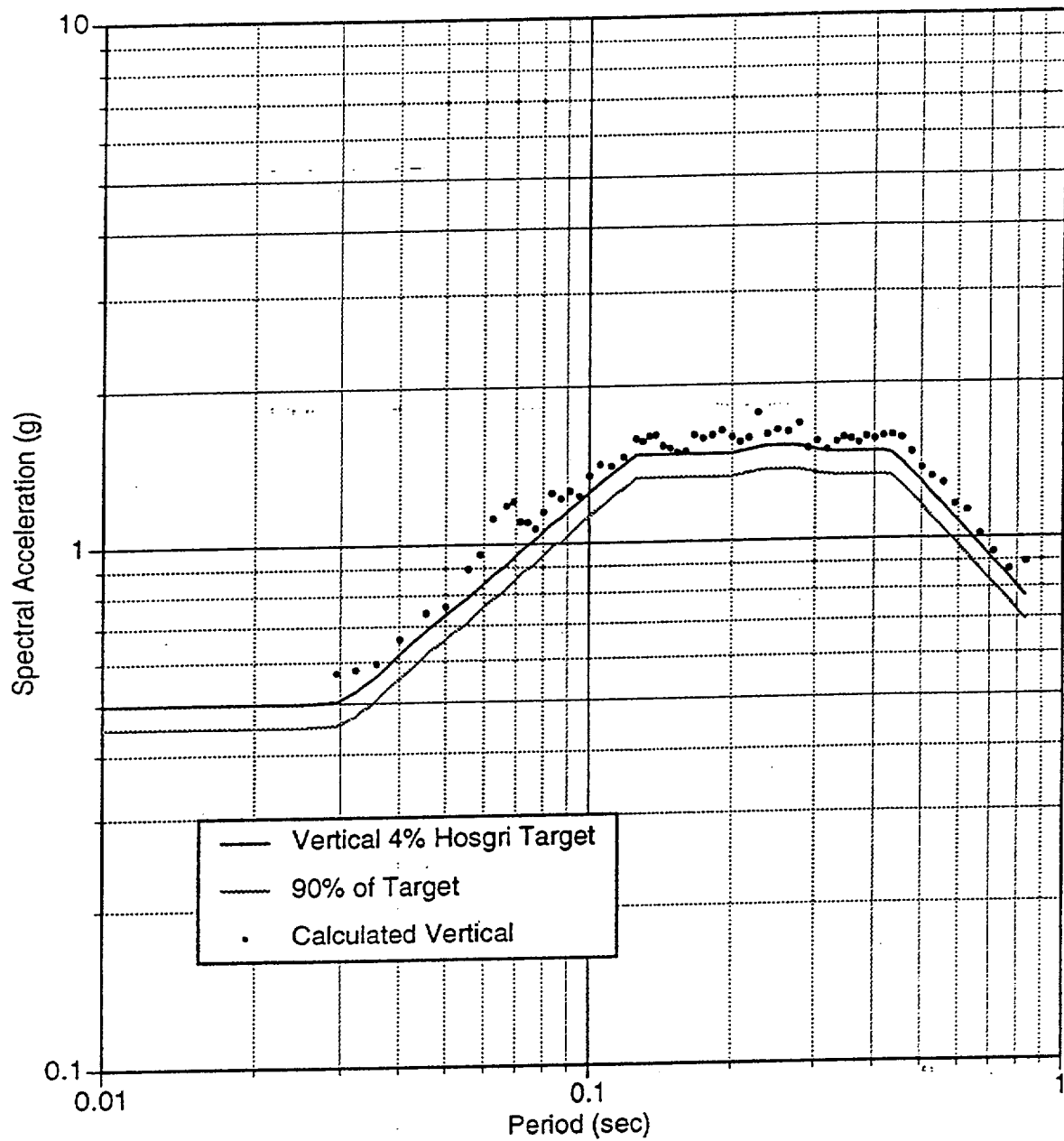


Figure 6-6c. Comparison of the spectra for the PEA time history for the HE component Z at 4% damping to the HE target spectrum.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 52 of 63

Date: 10/22/01

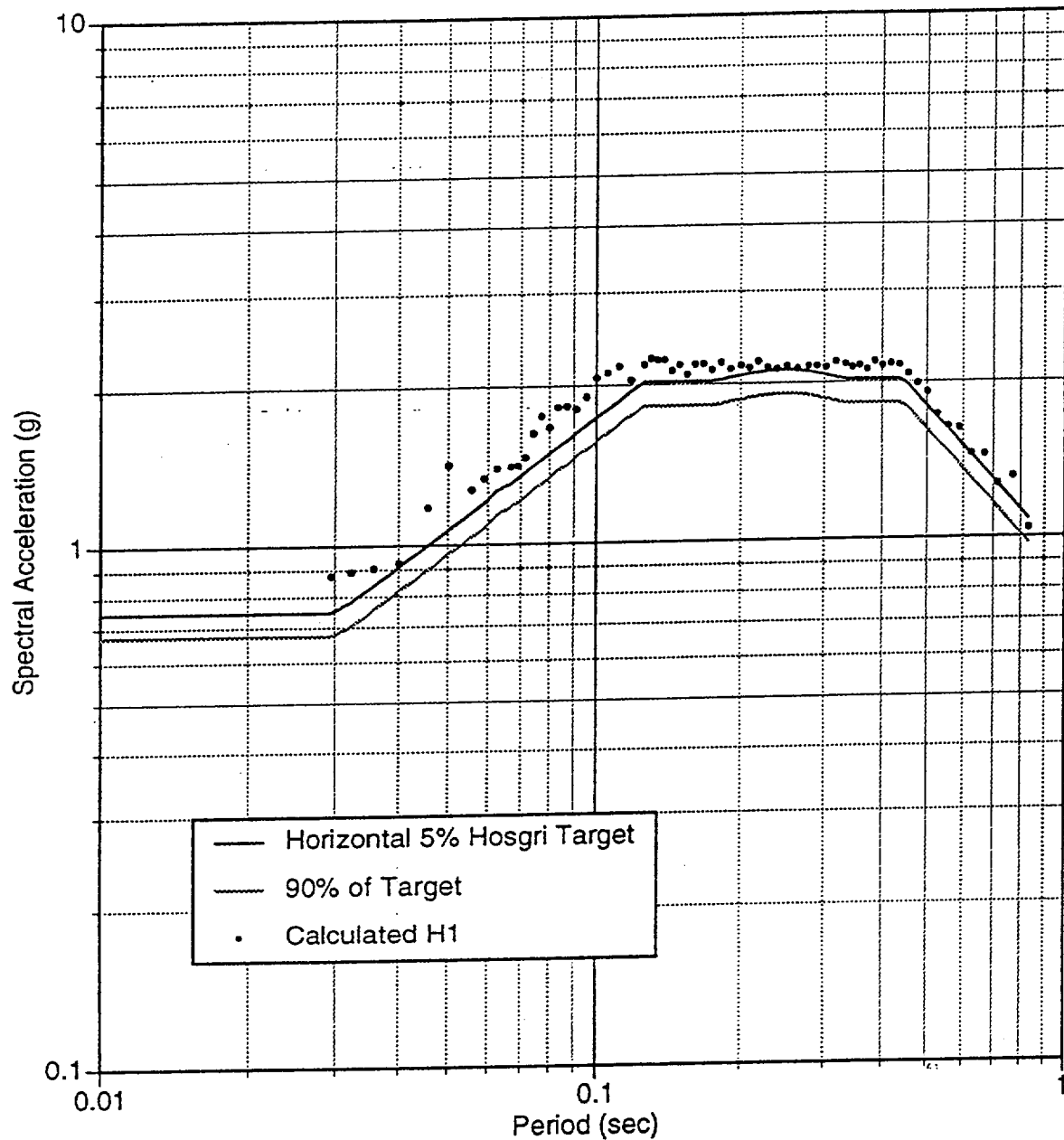


Figure 6-7a. Comparison of the spectra for the PEA time history for the HE component H1 at 5% damping to the HE target spectrum.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 53 of 63

Date: 10/22/01

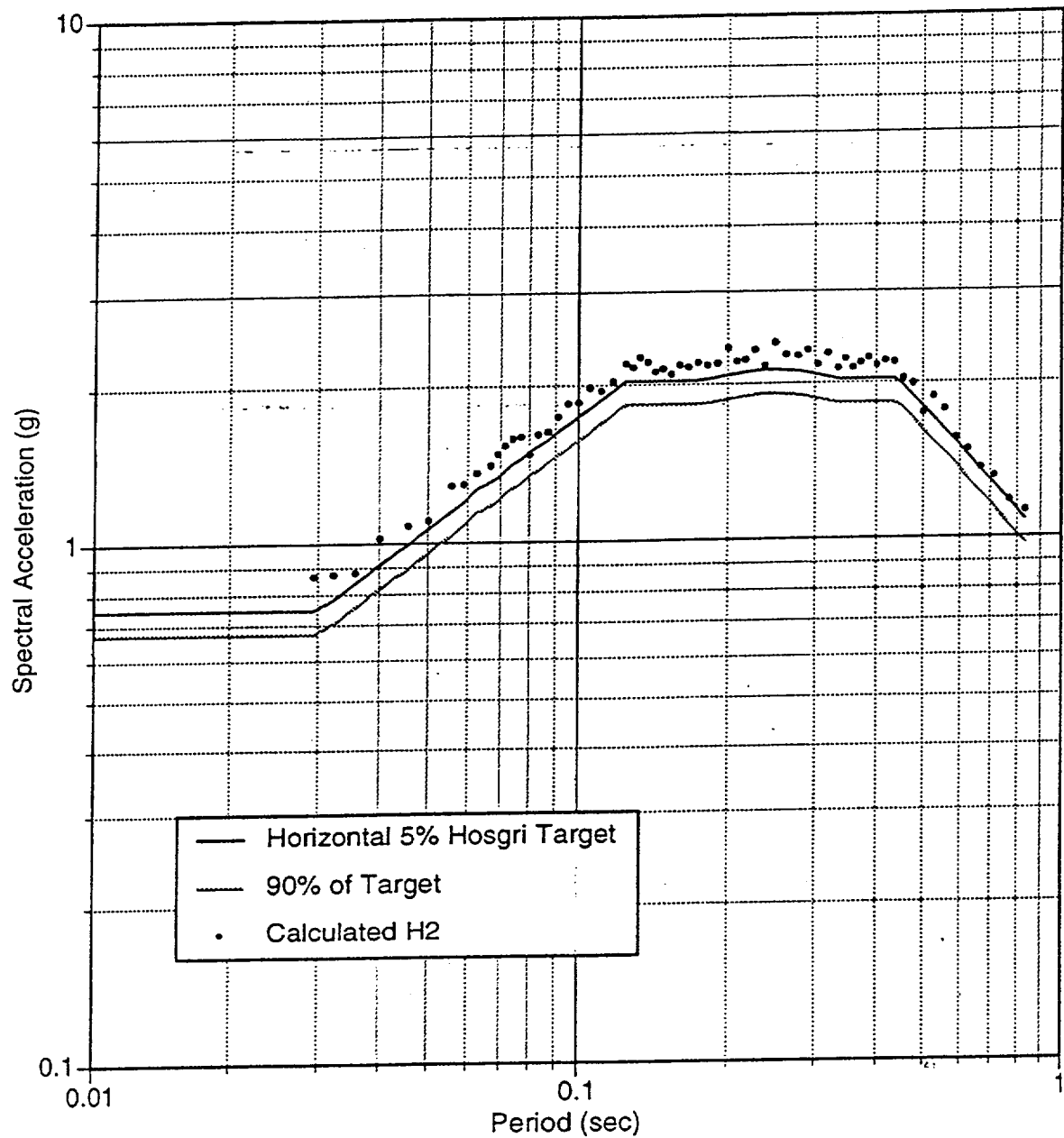


Figure 6-7b. Comparison of the spectra for the PEA time history for the HE component H2 at 5% damping to the HE target spectrum.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 54 of 63

Date: 10/22/01

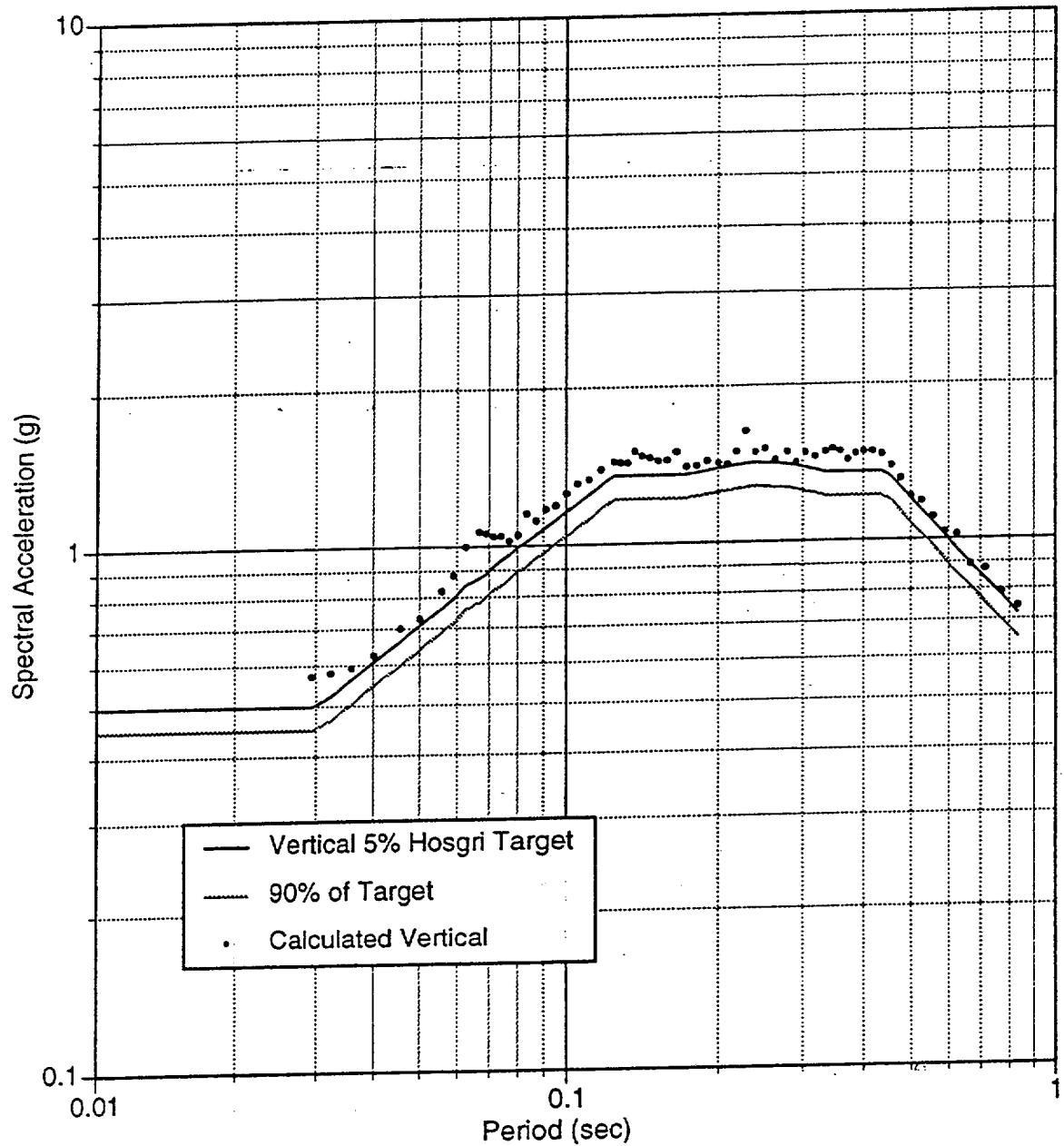


Figure 6-7c. Comparison of the spectra for the PEA time history for the HE component Z at 5% damping to the HE target spectrum.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 55 of 63

Date: 10/22/01

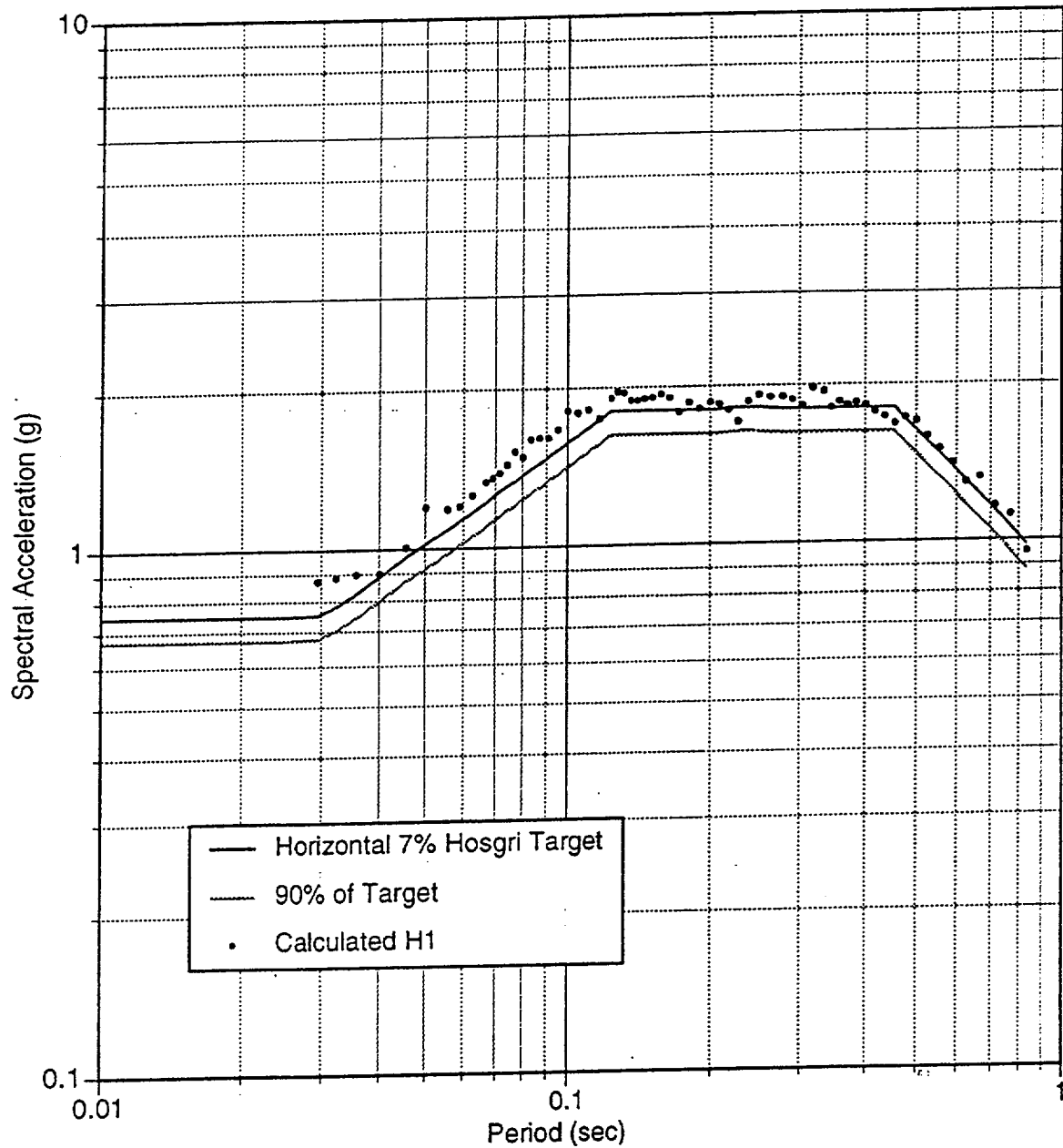


Figure 6-8a. Comparison of the spectra for the PEA time history for the HE component 1 at 7% damping to the HE target spectrum.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 56 of 63

Date: 10/22/01

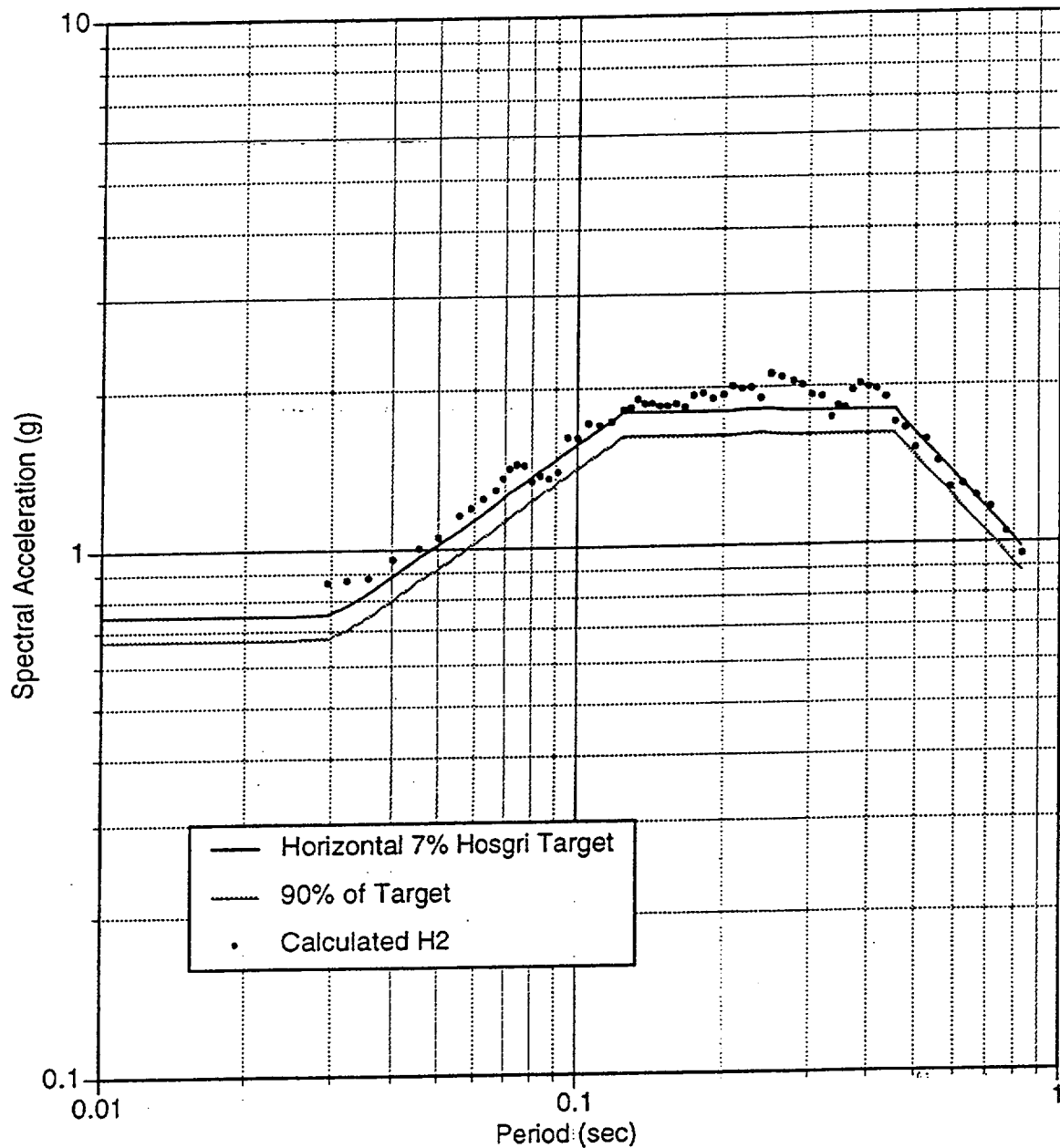


Figure 6-8b. Comparison of the spectra for the PEA time history for the HE component 2 at 7% damping to the HE target spectrum.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 57 of 63

Date: 10/22/01

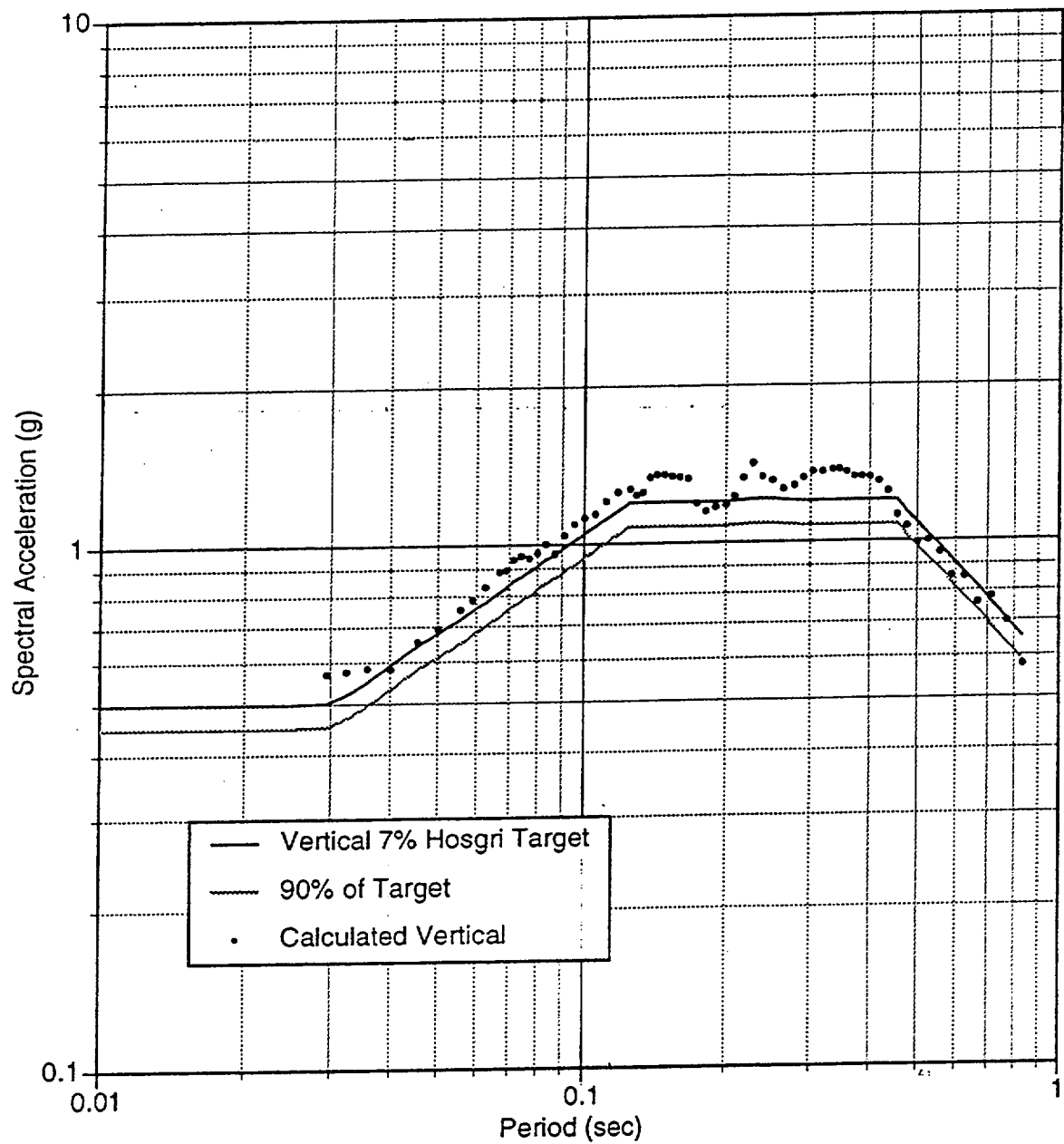


Figure 6-8c. Comparison of the spectra for the PEA time history for the HE component Z at 7% damping to the HE target spectrum.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 58 of 63

Date: 10/22/01

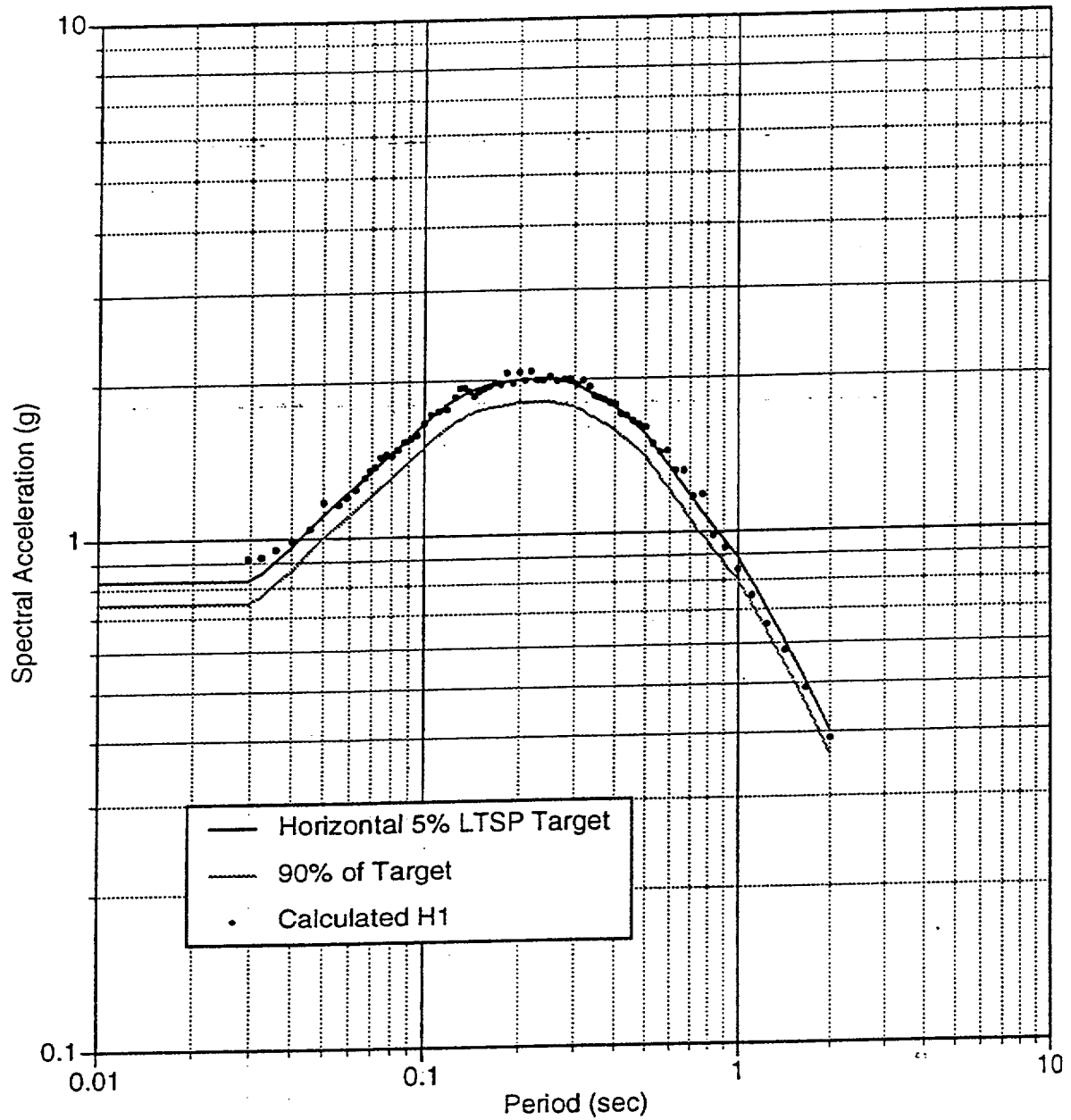


Figure 6-9a. Comparison of the spectra for the PEA time history for the LTSP component H1 at 5% damping to the LTSP target spectrum.

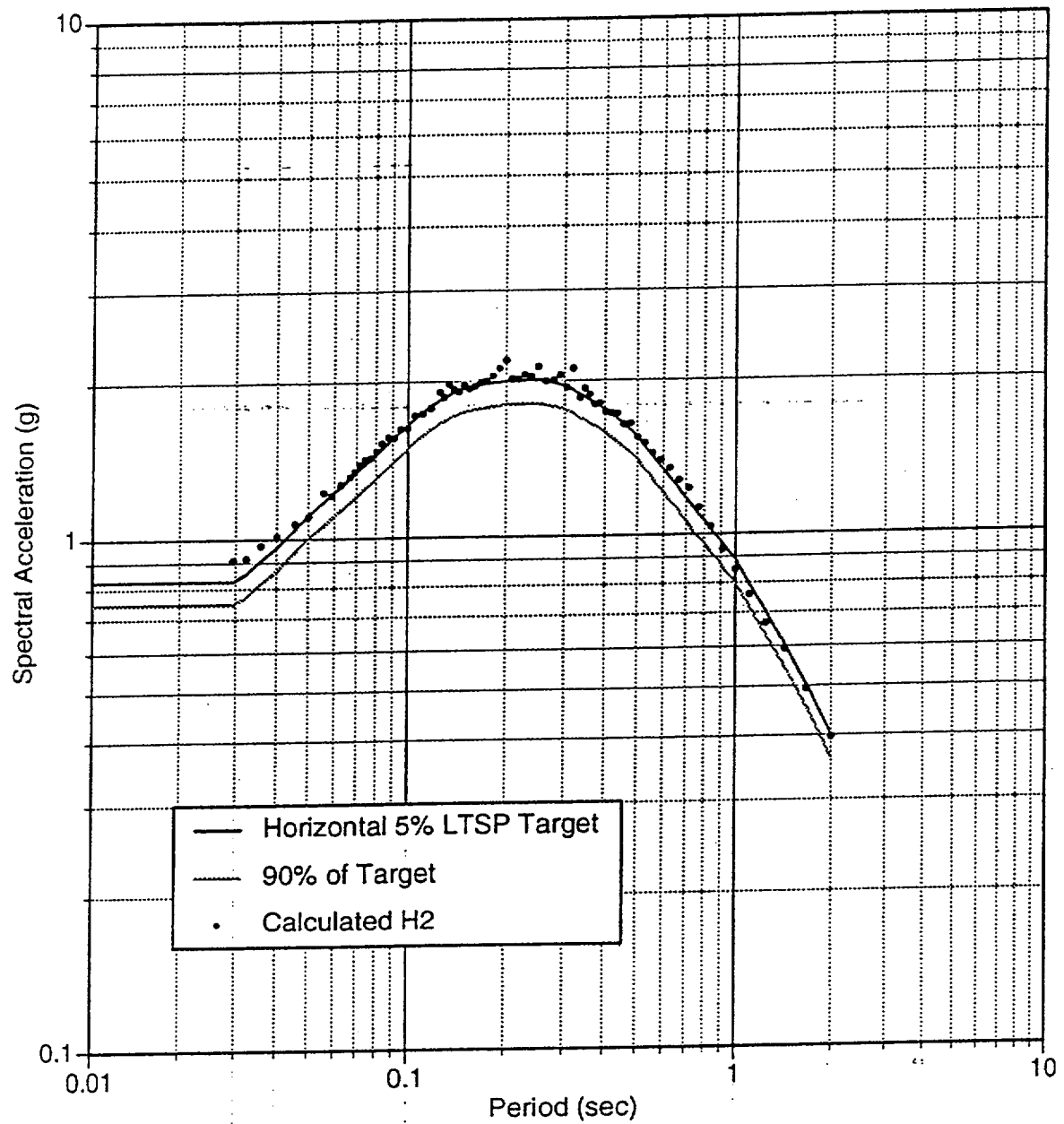


Figure 6-9b. Comparison of the spectra for the PEA time history for the LTSP component H2 at 5% damping to the LTSP target spectrum.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 60 of 63

Date: 10/22/01

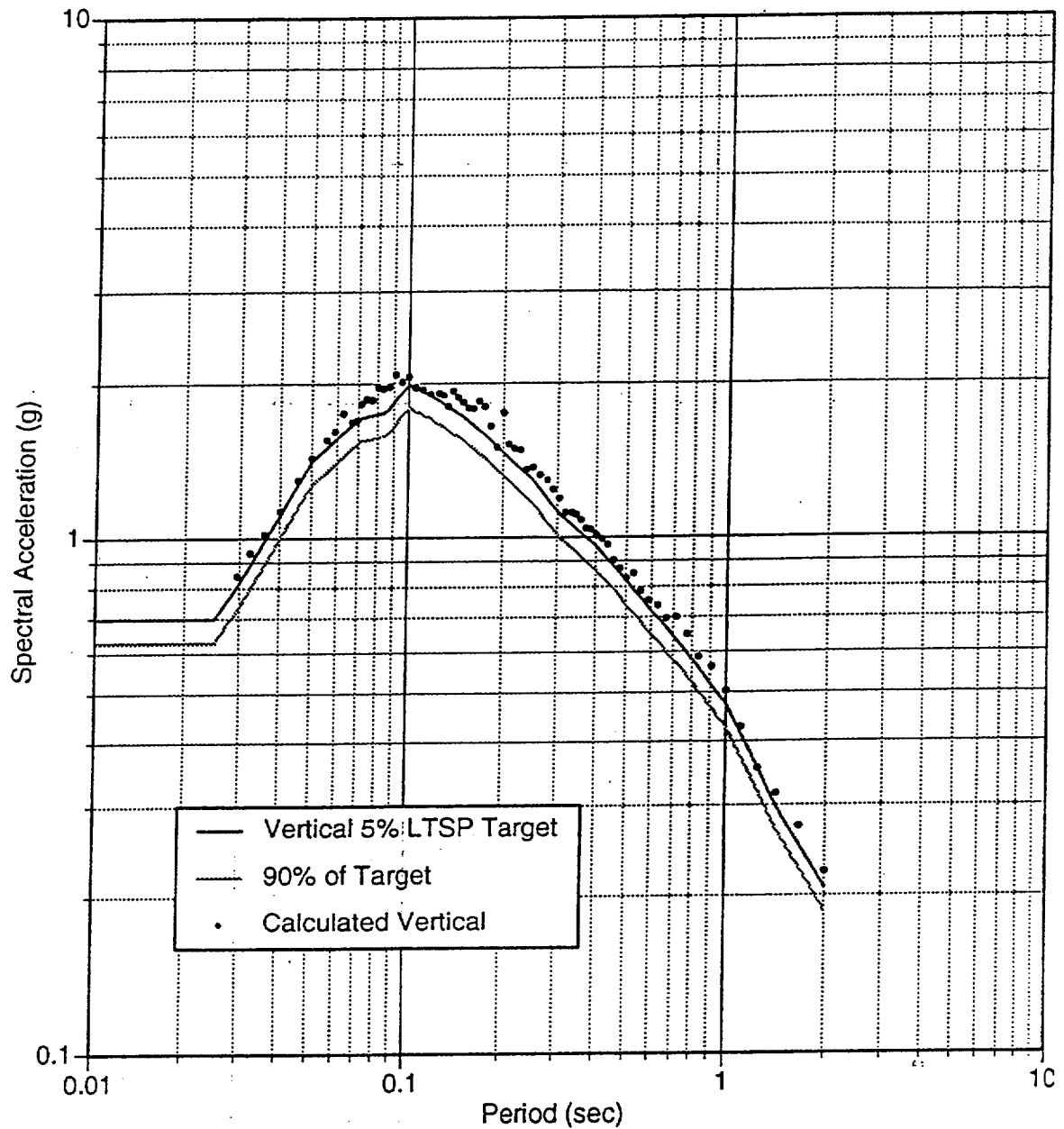


Figure 6-9c. Comparison of the spectra for the PEA time history for the LTSP component Z at 5% damping to the LTSP target spectrum.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 61 of 63

Date: 10/22/01

7. RESULTS

The PEA time histories developed for the HE and LTSP have the appropriate non-stationary character of the waveforms. They are based on recordings from an appropriate magnitude and distance, they have been base-line corrected, and they meet the statistical independence requirements.

To meet the NRC spectra matching requirements, the amplitudes of the acceleration time histories must be multiplied by the scale factors listed in Table 6-10.

8. CONCLUSIONS

Limitations:

This calculation has only developed the scale factors required to make the time histories meet the spectral matching requirements of SRP 3.7.1. The use of these scale factors to scale the results of non-linear time history analyses of the ISFSI systems and components needs to be justified on a case-by-case basis.

Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 62 of 63

Date: 10/22/01

9. REFERENCES

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Calc Number: GEO.DCPP.01.37

Rev Number: 1

Sheet Number: 63 of 63

Date: 10/22/01

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**CALCULATION PACKAGE
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SUPPORTING DOCUMENT**

**SPECTRAL COMPATIBLE
ACCELERATION TIME HISTORIES**

DESIGN EARTHQUAKE

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**CALCULATION PACKAGE
GEO.DCPP.01.37 REV. 1
SUPPORTING DOCUMENT**

**SPECTRAL COMPATIBLE
ACCELERATION TIME HISTORIES**

DESIGN EARTHQUAKE

Prepared by
Pacific Engineering and Analysis (2001)

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Calculation GEO.DCPP.01.37 Rev. 1

PG&E, DESIGN EARTHQUAKE, HORIZONTAL 1
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0.100682	0.101203	0.100111	0.097103	0.091768	0.083690	0.072533	0.058140
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0.097415	0.086145	0.069280	0.047136	0.020560	-0.009111	-0.040160	-0.070625
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0.025499	0.033757	0.042192	0.050382	0.057931	0.064482	0.069733	0.073447
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0.059062	0.072527	0.088033	0.103961	0.118416	0.129407	0.135062	0.133891
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input file: dehor1.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: dehor1.xls

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input file: dehor1.ath

output file with header and footer: dehor1.xls

Calculation GEO.DCPP.01.37 Rev. 1

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0.040724	0.046647	0.052235	0.057010	0.060446	0.062019	0.061264	0.057838
0.051566	0.042488	0.030873	0.017217	0.002225	-0.013237	-0.028210	-0.041707
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0.059103	0.070636	0.079825	0.086229	0.089638	0.090066	0.087741	0.083063
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0.019202	0.018318	0.018415	0.019317	0.020790	0.022571	0.024394	0.026015
0.027230	0.027890	0.027913	0.027280	0.026034	0.024269	0.022118	0.019736
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0.008947	0.008803	0.010936	0.012248	0.013638	0.014993	0.016207	0.017172
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input file: dehor1.ath

output file with header and footer: dehor1.xls

Calculation GEO.DCPP.01.37 Rev. 1

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input file: dehor1.ath

output file with header and footer: dehor1.xls

Calculation GEO.DCPP.01.37 Rev. 1

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Calculation GEO.DCPP.01.37 Rev. 1

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0.022778	0.020677	0.017235	0.013018	0.008659	0.004787	0.001963	0.000608
0.000967	0.003075	0.006763	0.011678	0.017330	0.023159	0.028597	0.033147
0.036435	0.038256	0.038592	0.037605	0.035610	0.033024	0.030306	0.027885
0.026106	0.025177	0.025143	0.025876	0.027094	0.028403	0.029347	0.029468
0.028373	0.025783	0.021587	0.015772	0.008603	0.000414	-0.008345	-0.017173
-0.025577	-0.033121	-0.039473	-0.044426	-0.047914	-0.050005	-0.050874	-0.050778
-0.050013	-0.048875	-0.047633	-0.046501	-0.045626	-0.045084	-0.044889	-0.045006
-0.045366	-0.045885	-0.046469	-0.047024	-0.047455	-0.047655	-0.047504	-0.046855

input file: dehor1.ath

output file with header and footer: dehor1.xls

Calculation GEO.DCPP.01.37 Rev. 1

-0.045533	-0.043339	-0.040058	-0.035479	-0.029427	-0.021788	-0.012542	-0.001781
0.010269	0.023255	0.036712	0.050091	0.062810	0.074297	0.084060	0.091719
0.097058	0.100042	0.100823	0.099711	0.097155	0.093674	0.089807	0.086053
0.082813	0.080364	0.078826	0.078174	0.078256	0.078828	0.079605	0.080310
0.080720	0.080695	0.080201	0.079300	0.078131	0.076872	0.075692	0.074708
0.073938	0.073278	0.072496	0.071250	0.069121	0.065677	0.060536	0.053437
0.044300	0.033276	0.020755	0.007366	-0.006075	-0.018628	-0.029326	-0.037272
-0.041749	-0.042296	-0.038793	-0.031475	-0.020942	-0.008114	-0.005847	-0.019636
0.031923	0.041477	0.047273	0.048587	0.045061	0.036726	0.023989	0.007597
-0.011446	-0.031963	-0.052716	-0.072499	-0.090244	-0.105075	-0.116386	-0.123834
-0.127357	-0.127167	-0.123674	-0.117478	-0.109270	-0.099817	-0.089888	-0.080217
-0.071465	-0.064200	-0.058872	-0.055802	-0.055172	-0.057024	-0.061258	-0.067636
-0.075791	-0.085241	-0.095419	-0.105697	-0.115437	-0.124005	-0.130872	-0.135587
-0.137889	-0.137649	-0.134976	-0.130122	-0.123525	-0.115717	-0.107299	-0.098857
-0.090924	-0.083901	-0.078021	-0.073327	-0.069668	-0.066718	-0.064023	-0.061062
-0.057309	-0.052313	-0.045756	-0.037506	-0.027641	-0.016452	-0.004420	0.007833
0.019613	0.030224	0.039059	0.045660	0.049775	0.051394	0.050752	0.048298
0.044656	0.040551	0.036725	0.033858	0.032489	0.032951	0.035340	0.039495
0.045019	0.051321	0.057673	0.063295	0.067431	0.069427	0.068802	0.065286
0.058851	0.049706	0.038273	0.025143	0.011014	-0.003372	-0.017298	-0.030129
-0.041357	-0.050634	-0.057782	-0.062782	-0.065758	-0.066938	-0.066612	-0.065099
-0.062696	-0.059660	-0.056178	-0.052370	-0.048283	-0.043909	-0.039204	-0.034119
-0.028615	-0.022691	-0.016398	-0.009847	-0.003213	0.003279	0.009366	0.014764
0.019196	0.022415	0.024223	0.024493	0.023183	0.020345	0.016127	0.010770
0.004600	-0.001992	-0.008563	-0.014645	-0.019773	-0.023506	-0.025464	-0.025348
-0.022964	-0.018243	-0.011256	-0.002211	-0.008550	0.020565	0.033279	0.046077
0.058322	0.069402	0.078767	0.085973	0.090713	0.092832	0.092341	0.089406
0.084328	0.077514	0.069426	0.060549	0.051328	0.042144	0.033267	0.024853
0.016926	0.009405	0.002120	-0.005145	-0.012612	-0.020459	-0.028786	-0.037581
-0.046704	-0.055885	-0.064745	-0.072821	-0.079618	-0.084651	-0.087503	-0.087874
-0.085614	-0.080752	-0.073500	-0.064243	-0.053507	-0.041922	-0.030167	-0.018911
-0.008764	-0.000224	0.006353	0.010781	0.013041	0.013276	0.011762	0.008872
0.005037	0.000703	-0.003717	-0.007867	-0.011477	-0.014377	-0.016497	-0.017857
-0.018553	-0.018731	-0.018567	-0.018238	-0.017899	-0.017670	-0.017622	-0.017772
-0.018086	-0.018484	-0.018948	-0.019043	-0.018923	-0.018358	-0.017235	-0.015487
-0.013092	-0.010087	-0.006569	-0.002698	-0.001312	0.005201	0.008680	0.011450
0.013229	0.013773	0.012909	0.010551	0.006725	0.001579	-0.004619	-0.011486
-0.018551	-0.025284	-0.031139	-0.035599	-0.038229	-0.038714	-0.036901	-0.032821
-0.026694	-0.018925	-0.010073	-0.000807	0.008150	0.016078	0.022335	0.026401
0.027942	0.026828	0.023154	0.017231	0.009554	0.000765	-0.008409	-0.017215
-0.024939	-0.030961	-0.034802	-0.036157	-0.034900	-0.031088	-0.024972	-0.016883
-0.007280	0.003330	0.014431	0.025537	0.036207	0.046074	0.054849	0.062319
0.068343	0.072834	0.075753	0.077091	0.076867	0.075118	0.071905	0.067314
0.061467	0.054520	0.046679	0.038193	0.029355	0.020489	0.011941	0.004049
-0.002864	-0.008520	-0.012708	-0.015293	-0.016228	-0.015561	-0.013428	-0.010042
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0.027317	0.027949	0.027653	0.026571	0.024902	0.022886	0.020785	0.018870
0.017399	0.016600	0.016648	0.017660	0.019668	0.022624	0.026394	0.030763
0.035454	0.040141	0.044483	0.048145	0.050840	0.052345	0.052539	0.051404
0.049045	0.045670	0.041582	0.037146	0.032748	0.028759	0.025490	0.023152
0.021827	0.021456	0.021828	0.022601	0.023329	0.023505	0.022612	0.020176
0.015827	0.009338	0.000663	-0.010044	-0.022434	-0.035976	-0.050000	-0.063743
-0.076413	-0.087248	-0.095583	-0.100902	-0.102884	-0.101402	-0.096587	-0.088741
-0.078367	-0.066105	-0.052680	-0.038848	-0.025344	-0.012826	-0.001843	0.007204
0.014071	0.018673	0.021075	0.021471	0.020156	0.017488	0.013862	0.009667
0.005270	0.000986	-0.002938	-0.006321	-0.009061	-0.011118	-0.012509	-0.013297
-0.013567	-0.013421	-0.012961	-0.012275	-0.011437	-0.010495	-0.009479	-0.008398
-0.007251	-0.006030	-0.004731	-0.003363	-0.001952	-0.000546	0.000782	0.001939
0.002816	0.003299	0.003278	0.002659	0.001380	-0.000580	-0.003193	-0.006377
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-0.009139	-0.007670	-0.007126	-0.007555	-0.008933	-0.011169	-0.014117	-0.017592
-0.021390	-0.025311	-0.029172	-0.032822	-0.036151	-0.039088	-0.041599	-0.043681
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0.027488	0.038005	0.047622	0.055807	0.062048	0.065888	0.066969	0.065048
0.060031	0.051984	0.041138	0.027887	0.012768	-0.003560	-0.020355	-0.036829
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0.005933	0.011324	0.015113	0.017561	0.019018	0.019885	0.020561	0.021387
0.022619	0.024381	0.026664	0.029318	0.032075	0.034583	0.036448	0.037285
0.036768	0.034679	0.030939	0.025632	0.019005	0.011457	0.003506	-0.004255
-0.011209	-0.016775	-0.020457	-0.021892	-0.020882	-0.017411	-0.011643	-0.003910
0.005329	0.015517	0.026059	0.036365	0.045896	0.054200	0.060943	0.065914
0.069036	0.070346	0.069980	0.068148	0.065104	0.061120	0.056467	0.051389
0.046104	0.040794	0.035605	0.030659	0.026057	0.021886	0.018227	0.015154
0.012736	0.011029	0.010076	0.009889	0.010452	0.011712	0.013576	0.015921
0.018590	0.021411	0.024202	0.026787	0.029008	0.030734	0.031862	0.032328
0.032097	0.031168	0.029563	0.027320	0.024494	0.021151	0.017368	0.013239
0.008874	0.004412	0.000021	-0.004103	-0.007731	-0.010619	-0.012514	-0.013180
-0.012416	-0.010087	-0.006143	-0.000641	0.006245	0.014222	0.022885	0.031747
0.040262	0.047867	0.054036	0.058312	0.060359	0.059985	0.057169	0.052058
0.044964	0.036329	0.026693	0.016645	0.006772	-0.002390	-0.010399	-0.016935
-0.021822	-0.025025	-0.026641	-0.026871	-0.025986	-0.024289	-0.022074	-0.019595
-0.017038	-0.014516	-0.012061	-0.009644	-0.007196	-0.004635	-0.001899	0.001024
0.004082	0.007144	0.010007	0.012414	0.014079	0.014726	0.014134	0.012170
0.008824	0.004238	-0.001301	-0.007359	-0.013390	-0.018778	-0.022886	-0.025119
-0.024987	-0.022148	-0.016460	-0.007996	0.002942	0.015846	0.030029	0.044679
0.058914	0.071850	0.082666	0.090655	0.095278	0.096187	0.093242	0.086510

input file: dehor1.ath

output file with header and footer: dehor1.xls

Calculation GEO.DCPP.01.37 Rev. 1

0.076245	0.062860	0.046891	0.028957	0.009716	-0.010164	-0.030040	-0.049312
-0.067441	-0.083952	-0.098440	-0.110574	-0.120073	-0.126770	-0.130534	-0.131315
-0.129183	-0.124268	-0.116811	-0.107141	-0.095697	-0.082979	-0.069549	-0.055993
-0.042898	-0.030807	-0.020193	-0.011424	-0.004750	-0.000281	0.002006	0.002259
0.000733	-0.002239	-0.006279	-0.010991	-0.015995	-0.020946	-0.025552	-0.029576
-0.032840	-0.035216	-0.036609	-0.036954	-0.036195	-0.034287	-0.031195	-0.026897
-0.021400	-0.014760	-0.007089	0.001423	0.010502	0.019795	0.028877	0.037279
0.044519	0.050140	0.053758	0.055095	0.054023	0.050572	0.044952	0.037527
0.028806	0.019383	0.009904	0.000994	-0.006787	-0.013002	-0.017363	-0.019766
-0.020277	-0.019130	-0.016681	-0.013371	-0.009674	-0.006039	-0.002846	-0.000369
0.001247	0.001991	0.001979	0.001423	0.000597	-0.000200	-0.000694	-0.000666
0.000015	0.001376	0.003343	0.005747	0.008350	0.010876	0.013044	0.014600
0.015353	0.015188	0.014081	0.012097	0.009379	0.006132	0.002594	-0.000985
-0.004372	-0.007368	-0.009825	-0.011650	-0.012808	-0.013313	-0.013219	-0.012604
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0.002093	0.003300	0.004093	0.004365	0.004019	0.002981	0.001210	-0.001289
-0.004460	-0.008190	-0.012315	-0.016632	-0.020903	-0.024886	-0.028346	-0.031078
-0.032923	-0.033781	-0.033620	-0.032474	-0.030437	-0.027654	-0.024303	-0.020580
-0.016677	-0.012773	-0.009012	-0.005505	-0.002320	0.000511	0.002988	0.005131
0.006969	0.008528	0.009824	0.010854	0.011594	0.012004	0.012228	0.011610
0.010703	0.009279	0.007346	0.004950	0.002188	-0.000796	-0.003815	-0.006647
-0.009048	-0.010773	-0.011591	-0.011308	-0.009785	-0.006952	-0.002920	0.002515
0.008871	0.015992	0.023564	0.031226	0.038607	0.045340	0.051097	0.055606
0.058671	0.060186	0.060141	0.058617	0.055778	0.051856	0.047125	0.041885
0.036428	0.031025	0.025905	0.021236	0.017132	0.013642	0.010754	0.008457
0.006653	0.005274	0.004249	0.003519	0.003049	0.002823	0.002844	0.003122
0.003664	0.004458	0.005468	0.006625	0.007825	0.008935	0.009801	0.010722
0.010208	0.009508	0.008127	0.006083	0.003469	0.000447	-0.002752	-0.005896
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0.024308	0.025266	0.026002	0.026624	0.027195	0.027712	0.028136	0.028243
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-0.029206	-0.024463	-0.018355	-0.011270	-0.003633	0.004130	0.011531	0.018546
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0.037062	0.034418	0.030857	0.026364	0.020959	0.014711	0.007754	0.000338
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0.069905	0.078346	0.085128	0.089918	0.092490	0.092745	0.090714	0.086555
0.080544	0.073049	0.064515	0.055421	0.046260	0.037503	0.029575	0.022831
0.017538	0.013865	0.011880	0.011548	0.012744	0.015256	0.018812	0.023091
0.027744	0.032422	0.036786	0.040538	0.043427	0.045264	0.045538	0.045405
0.043702	0.040926	0.037236	0.032832	0.027943	0.022809	0.017564	0.012727
0.008185	0.004185	0.000833	-0.001808	-0.003723	-0.004933	-0.005494	-0.005491
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-0.001105	-0.002468	-0.004487	-0.007138	-0.010343	-0.013978	-0.017873	-0.021825
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-0.023836	-0.025171	-0.026570	-0.027712	-0.028274	-0.027966	-0.026565	-0.023943
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0.025602	0.028277	0.029609	0.029648	0.028527	0.026445	0.023623	0.020287
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0.006416	0.008595	0.009133	0.007998	0.005305	0.001296	-0.003686	-0.009232
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-0.031921	-0.030000	-0.027677	-0.025146	-0.022558	-0.020027	-0.017520	-0.015376
-0.013315	-0.011451	-0.009804	-0.008421	-0.007365	-0.006720	-0.005574	-0.004709
-0.008080	-0.009795	-0.012103	-0.014885	-0.017958	-0.021082	-0.023980	-0.026366
-0.027978	-0.028601	-0.028103	-0.026445	-0.023702	-0.020047	-0.015750	-0.011141
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-0.007416	-0.005398	-0.003059	-0.000628	0.001682	0.003692	0.005281	0.006393
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0.008166	0.009158	0.010332	0.011589	0.012818	0.013910	0.014770	0.015326
0.015532	0.015372	0.014848	0.013984	0.012803	0.011334	0.009593	0.007585
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0.023092	0.015106	0.006834	-0.001328	-0.009019	-0.015923	-0.022798	-0.026474
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0.016198	0.011527	0.006513	0.001472	-0.003257	-0.007329	-0.010417	-0.012239
-0.012582	-0.011316	-0.008422	-0.003984	0.001799	0.008632	0.016136	0.023878
0.031401	0.038260	0.044052	0.048452	0.051233	0.052283	0.051613	0.049350

input file: dehor1.ath

output file with header and footer: dehor1.xls

Calculation GEO.DCPP.01.37 Rev. 1

0.045723	0.041036	0.035645	0.029917	0.024203	0.018803	0.013951	0.009789
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-0.014127	-0.012089	-0.009213	-0.005605	-0.001429	0.003113	0.007799	0.012411
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0.032578	0.032616	0.032438	0.032073	0.031531	0.030798	0.029853	0.028676
0.027257	0.025608	0.023760	0.021773	0.019725	0.017705	0.015805	0.014102
0.012649	0.011465	0.010532	0.009792	0.009156	0.008519	0.007772	0.006819
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0.038227	0.035433	0.032221	0.028788	0.025304	0.021896	0.018643	0.015576
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0.013963	0.013125	0.011983	0.010559	0.008914	0.007137	0.005338	0.003631
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0.010381	0.012234	0.014224	0.016259	0.018215	0.019941	0.021278	0.022075
0.022210	0.021606	0.020243	0.018169	0.015499	0.012409	0.009945	0.007395
0.002945	0.000545	-0.001129	-0.001946	-0.001848	-0.000854	0.001575	0.002528
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input file: dehor1.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: dehor1.xls

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0.015295	0.015199	0.014842	0.014109	0.012867	0.010991	0.008380	0.004977
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-0.000128	0.000037	0.000304	0.000569	0.000689	0.000513	-0.000103	-0.001265
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-0.021051	-0.020270	-0.018317	-0.015284	-0.011368	-0.006844	-0.002045	0.002678
0.006996	0.010634	0.013397	0.015192	0.016026	0.016000	0.015295	0.014132
0.012744	0.011346	0.010101	0.009102	0.008359	0.007810	0.007325	0.006740
0.005879	0.004592	0.002777	0.000410	-0.002451	-0.005660	-0.009002	-0.012211
-0.014999	-0.017098	-0.018285	-0.018415	-0.017438	-0.015408	-0.012477	-0.008881
-0.004914	-0.000894	0.002867	0.006099	0.008594	0.010228	0.010966	0.010853
0.010005	0.008587	0.006784	0.004781	0.002737	0.000771	-0.001044	-0.002686
-0.004168	-0.005528	-0.006814	-0.008061	-0.009279	-0.010443	-0.011495	-0.012345
-0.012886	-0.013012	-0.012637	-0.011714	-0.010251	-0.008316	-0.006045	-0.003623
-0.001273	0.000769	0.002286	0.003100	0.003105	0.002277	0.000691	-0.001490
-0.004024	-0.006611	-0.008927	-0.010657	-0.011525	-0.011332	-0.009974	-0.007452
-0.003880	0.000530	0.005487	0.010651	0.015664	0.020189	0.023941	0.026708
0.028376	0.028933	0.028462	0.027131	0.025174	0.022856	0.020450	0.018206
0.016325	0.014944	0.014123	0.013844	0.014021	0.014509	0.015128	0.015685
0.015996	0.015910	0.015322	0.014188	0.012529	0.010430	0.008027	0.005499
0.003047	0.000877	-0.000823	-0.001895	-0.002228	-0.001765	-0.000511	0.001475
0.004081	0.007153	0.010511	0.013957	0.017299	0.020353	0.022966	0.025011
0.025402	0.027090	0.027061	0.026335	0.024957	0.022994	0.020528	0.017649
0.014454	0.011044	0.007523	0.003999	0.000580	-0.002620	-0.005490	-0.007918
-0.009798	-0.011038	-0.011566	-0.011336	-0.010336	-0.008593	-0.006176	-0.003196
0.000204	0.003848	0.007548	0.011108	0.014350	0.017117	0.019289	0.020796
0.021612	0.021765	0.021321	0.020380	0.019062	0.017490	0.015780	0.014025
0.012291	0.010611	0.008988	0.007401	0.005814	0.004192	0.002508	0.000761
-0.001023	-0.002782	-0.004426	-0.005840	-0.006898	-0.007479	-0.007483	-0.006848
-0.005555	-0.003646	-0.001215	0.001591	0.004591	0.007578	0.010348	0.012712
0.014519	0.015670	0.016122	0.015893	0.015053	0.013713	0.012009	0.010081
0.008056	0.006036	0.004082	0.002213	0.000410	-0.001374	-0.003200	-0.005129
-0.007197	-0.009408	-0.011719	-0.014038	-0.016230	-0.018128	-0.019551	-0.020328
-0.020322	-0.019448	-0.017696	-0.015136	-0.011920	-0.008271	-0.004469	-0.000821
0.002366	0.004819	0.006326	0.006756	0.006081	0.004374	0.001805	-0.001374

input file: dehor1.ath

output file with header and footer: dehor1.xls

Calculation GEO.DCPP.01.37 Rev. 1

-0.004859	-0.008318	-0.011426	-0.013898	-0.015511	-0.016126	-0.015699	-0.014276
-0.011987	-0.009033	-0.005651	-0.002104	0.001357	0.004505	0.007164	0.009210
0.010582	0.011276	0.011335	0.010842	0.009899	0.008623	0.007124	0.005503
0.003844	0.002217	0.000673	-0.000745	-0.002002	-0.003065	-0.003898	-0.004463
-0.004725	-0.004648	-0.004207	-0.003394	-0.002219	-0.000717	0.001052	0.003003
0.005034	0.007028	0.008869	0.010446	0.011667	0.012462	0.012793	0.012652
0.012060	0.011063	0.009724	0.008117	0.006316	0.004387	0.002386	0.000355
-0.001682	-0.003707	-0.005711	-0.007685	-0.009612	-0.011466	-0.013207	-0.014780
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-0.012510	-0.010457	-0.008347	-0.006319	-0.004502	-0.003009	-0.001923	-0.001288
-0.001110	-0.001354	-0.001948	-0.002794	-0.003775	-0.004770	-0.005668	-0.006371
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-0.002440	-0.001817	-0.001359	-0.001069	-0.000924	-0.000884	-0.000892	-0.000885
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0.004334	0.004923	0.005254	0.005268	0.004924	0.004211	0.003147	0.001778
0.000175	-0.001569	-0.003350	-0.005059	-0.006591	-0.007854	-0.008776	-0.009312
-0.009446	-0.009189	-0.008582	-0.007687	-0.006583	-0.005358	-0.004100	-0.002892
-0.001801	-0.000878	-0.000148	0.000380	0.000724	0.000912	0.000989	0.001000
0.000993	0.001006	0.001065	0.001184	0.001356	0.001564	0.001773	0.001944
0.002030	0.001988	0.001782	0.001387	0.000789	-0.000006	-0.000977	-0.002089
-0.003295	-0.004537	-0.005755	-0.006887	-0.007877	-0.008671	-0.009231	-0.009527
-0.009543	-0.009278	-0.008743	-0.007961	-0.006967	-0.005807	-0.004532	-0.003200
-0.001871	-0.000608	0.000533	0.001499	0.002246	0.002742	0.002968	0.002920
0.002612	0.002070	0.001337	0.000464	-0.000488	-0.001456	-0.002380	-0.003206
-0.003887	-0.004393	-0.004709	-0.004832	-0.004778	-0.004572	-0.004249	-0.003846
-0.003405	-0.002961	-0.002542	-0.002170	-0.001855	-0.001598	-0.001394	-0.001231
-0.001094	-0.000969	-0.000847	-0.000720	-0.000588	-0.000457	-0.000335	-0.000236
-0.000173	-0.000154	-0.000188	-0.000273	-0.000403	-0.000564	-0.000737	-0.000899
-0.001025	-0.001094	-0.001087	-0.000993	-0.000809	-0.000540	-0.000202	0.000184
0.000591	0.000989	0.001347	0.001638	0.001840	0.001937	0.001921	0.001792
0.001557	0.001230	0.000829	0.000373	-0.000114	-0.000611	-0.001097	-0.001556
-0.001972	-0.002333	-0.002629	-0.002852	-0.002998	-0.003061	-0.003042	-0.002939
-0.002755	-0.002494	-0.002165	-0.001777	-0.001344	-0.000882	-0.000409	0.000056
0.000493	0.000886	0.001218	0.001476	0.001653	0.001744	0.001752	0.001680
0.001537	0.001335	0.001088	0.000809	0.000512	0.000209	-0.000089	-0.000373
-0.000637	-0.000875	-0.001086	-0.001267	-0.001420	-0.001546	-0.001645	-0.001719
-0.001772	-0.001805	-0.001822	-0.001826	-0.001820	-0.001808	-0.001792	-0.001776
-0.001761	-0.001748	-0.001738	-0.001730	-0.001720	-0.001707	-0.001686	-0.001655
-0.001610	-0.001549	-0.001472	-0.001379	-0.001272	-0.001155	-0.001032	-0.000908
-0.000789	-0.000680	-0.000584	-0.000503	-0.000440	-0.000392	-0.000357	-0.000333
-0.000314	-0.000296	-0.000275	-0.000249	-0.000214	-0.000171	-0.000120	-0.000063
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0.000181	0.000153	0.000120	0.000085	0.000054	0.000027	0.000009	0.000002
0.000004	0.000018	0.000041	0.000072	0.000109	0.000151	0.000194	0.000236
0.000276	0.000313	0.000344	0.000371	0.000391	0.000405	0.000414	0.000418
0.000419	0.000416	0.000411	0.000406	0.000401	0.000397	0.000396	0.000397
0.000403	0.000412	0.000425	0.000441	0.000462	0.000485	0.000510	0.000537
0.000564	0.000592	0.000619	0.000646	0.000671	0.000695	0.000718	0.000739

input file: dehor2.ath

output file with header and footer: dehor2.xls

Calculation GEO.DCPP.01.37 Rev.1

PG&E. DESIGN EARTHQUAKE, HORIZONTAL 2
OUTPUT ACCELERATION TIME HISTORY (G'S)

NPTS= 8192, dt= 0.0050SEC

-0.000337	-0.000337	-0.000338	-0.000338	-0.000340	-0.000340	-0.000342	-0.000340
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-0.000293	-0.000260	-0.000241	-0.000190	-0.000159	-0.000092	-0.000056	0.000017
0.000044	0.000104	0.000101	0.000130	0.000082	0.000069	-0.000029	-0.000077
-0.000211	-0.000272	-0.000414	-0.000456	-0.000572	-0.000564	-0.000630	-0.000552
-0.000557	-0.000406	-0.000350	-0.000130	-0.000020	0.000268	0.000433	0.000791
0.001016	0.001448	0.001729	0.002220	0.002525	0.003024	0.003278	0.003690
0.003784	0.003994	0.003815	0.003729	0.003216	0.002817	0.002005	0.001385
0.000422	-0.000222	-0.001107	-0.001533	-0.002108	-0.002114	-0.002232	-0.001741
-0.001404	-0.000503	0.000123	0.001212	0.001867	0.002870	0.003298	0.004002
0.004052	0.004387	0.004071	0.004124	0.003590	0.003550	0.003001	0.003058
0.002643	0.002890	0.002634	0.003027	0.002826	0.003217	0.002903	0.003131
0.002574	0.002560	0.001746	0.001549	0.000600	0.000394	-0.000485	-0.000492
-0.001114	-0.000779	-0.001066	-0.000381	-0.000396	0.000514	0.000602	0.001546
0.001548	0.002364	0.002160	0.002780	0.002358	0.002819	0.002247	0.002633
0.001990	0.002353	0.001649	0.001954	0.001109	0.001243	0.000129	-0.000026
-0.001490	-0.001957	-0.003716	-0.004350	-0.006175	-0.006577	-0.008221	-0.008227
-0.009151	-0.008383	-0.008505	-0.006904	-0.006303	-0.004091	-0.003121	-0.000763
0.000032	0.001957	0.002001	0.002964	0.001817	0.001496	-0.001026	-0.002659
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-0.033621	-0.033995	-0.035160	-0.033568	-0.032750	-0.029184	-0.026592	-0.021482
-0.017753	-0.011920	-0.008019	-0.002521	0.000468	0.004593	0.005746	0.007758
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-0.021714	-0.023871	-0.027368	-0.027649	-0.029111	-0.027242	-0.026642	-0.022829
-0.020574	-0.015391	-0.012182	-0.006411	-0.003072	0.002455	0.005118	0.009649
0.010963	0.013929	0.013451	0.014557	0.012156	0.011451	0.007368	0.005281
0.000120	-0.002595	-0.007970	-0.010391	-0.015058	-0.016329	-0.019560	-0.019133
-0.020602	-0.018392	-0.018256	-0.014638	-0.013447	-0.009095	-0.007584	-0.003231
-0.002076	0.001699	0.002037	0.004894	0.004185	0.005977	0.004121	0.004768
0.001688	0.001105	-0.003274	-0.005116	-0.010735	-0.013629	-0.020078	-0.023375
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-0.023141	-0.013019	-0.005355	0.006234	0.014171	0.024854	0.030688	0.038311
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0.018867	0.018462	0.015708	0.018143	0.018050	0.022700	0.024035	0.029220
0.030064	0.033858	0.032504	0.033812	0.029319	0.027617	0.020872	0.017382
0.009601	0.005954	-0.001214	-0.003539	-0.008938	-0.009215	-0.012594	-0.011028
-0.012974	-0.010420	-0.011906	-0.009310	-0.011127	-0.009024	-0.011396	-0.009700
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0.038076	0.045611	0.047792	0.053496	0.053167	0.055868	0.052178	0.051417
0.044335	0.040505	0.030806	0.024999	0.014010	0.007693	-0.003067	-0.008409
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-0.017533	-0.008458	-0.003400	0.007045	0.012714	0.022987	0.027544	0.036126
0.038253	0.043629	0.042207	0.043829	0.038641	0.036742	0.028453	0.024083
0.014050	0.008765	-0.001374	-0.005986	-0.014809	-0.017588	-0.024268	-0.024762
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0.038410	0.046376	0.046655	0.049073	0.042982	0.038611	0.025778	0.015239
-0.002680	-0.016744	-0.036256	-0.049736	-0.066422	-0.074946	-0.084848	-0.085224
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0.018806	0.031152	0.034912	0.040327	0.037216	0.036371	0.028057	0.023356
0.012655	0.006990	-0.003449	-0.007930	-0.016628	-0.019173	-0.026059	-0.027139
-0.033006	-0.033488	-0.039032	-0.039229	-0.044245	-0.043395	-0.046626	-0.043135
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0.040233	0.051673	0.054858	0.059644	0.055470	0.052820	0.041778	0.033430
0.018353	0.007964	-0.007021	-0.015256	-0.026289	-0.029199	-0.034076	-0.030591
-0.029418	-0.020744	-0.015638	-0.004534	0.001415	0.011856	0.015852	0.023365
0.023836	0.027606	0.024464	0.025034	0.019291	0.017947	0.010969	0.008986
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-0.030069	-0.030444	-0.035341	-0.034182	-0.037130	-0.033674	-0.034099	-0.028068
-0.026064	-0.017959	-0.014435	-0.005524	-0.002018	0.006000	0.007759	0.013259
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0.034468	0.044630	0.046789	0.051072	0.047106	0.045466	0.036228	0.030379
0.018327	0.011280	-0.000256	-0.005123	-0.013009	-0.013072	-0.015421	-0.009703
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0.050435	0.050831	0.042917	0.037369	0.024371	0.015006	-0.000240	-0.010106
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-0.019246	-0.005658	0.003043	0.016404	0.023326	0.033565	0.036345	0.041822
0.039672	0.040514	0.034451	0.032460	0.024902	0.022880	0.016737	0.017414
0.014959	0.019913	0.021850	0.030817	0.035908	0.046765	0.052190	0.061677
0.064050	0.068991	0.065675	0.064259	0.054480	0.047093	0.032404	0.021659
0.005524	-0.004572	-0.017969	-0.023443	-0.030724	-0.029121	-0.029006	-0.020365
-0.014219	-0.001123	0.007479	0.020793	0.027345	0.036522	0.037223	0.039368
0.032492	0.027196	0.013675	0.003099	-0.013902	-0.025902	-0.042218	-0.051567
-0.063590	-0.067469	-0.073395	-0.071136	-0.071432	-0.064507	-0.061432	-0.052593
-0.049043	-0.040990	-0.039167	-0.033365	-0.033860	-0.029995	-0.031668	-0.027957
-0.028640	-0.022840	-0.020530	-0.011166	-0.005146	0.007609	0.016242	0.030444
0.039085	0.051729	0.057284	0.065515	0.065677	0.067989	0.062208	0.059062
0.048763	0.042388	0.030360	0.023809	0.013049	0.008961	0.001500	0.001125
-0.002642	0.000262	-0.000950	0.003594	0.003050	0.007370	0.005910	0.008907
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0.018369	0.028335	0.034257	0.046065	0.052907	0.064621	0.070358	0.080055

input file: dehor2.ath

Calculation GEO.DCPP.01.37 Rev.1

output file with header and footer: dehor2.xls

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input file: dehor2.ath

output file with header and footer: dehor2.xls

Calculation GEO.DCPP.01.37 Rev.1

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-0.040125	-0.029739	-0.021535	-0.005885	0.005917	0.023190	0.034530	0.049357
0.056576	0.066077	0.067348	0.070906	0.066827	0.066116	0.059171	0.057115
0.050251	0.049405	0.044427	0.045592	0.042180	0.043962	0.039845	0.039426
0.031669	0.026459	0.013259	0.002605	-0.015307	-0.029216	-0.048309	-0.060889
-0.075956	-0.081910	-0.088130	-0.083659	-0.078710	-0.063271	-0.048522	-0.025327
-0.005567	0.019440	0.037651	0.057893	0.068552	0.079121	0.078819	0.078046
0.066919	0.056644	0.037983	0.022576	0.001392	-0.013947	-0.032686	-0.043565
-0.056292	-0.060106	-0.065205	-0.061269	-0.058858	-0.047931	-0.039246	-0.022902
-0.009755	0.010008	0.025441	0.046258	0.061394	0.080445	0.092257	0.106388
0.111726	0.117974	0.114284	0.110735	0.096982	0.083667	0.061020	0.040265
0.012124	-0.011802	-0.040577	-0.062569	-0.086994	-0.102545	-0.118893	-0.125273

input file: dehor2.ath

output file with header and footer: dehor2.xls

Calculation GEO.DCPP.01.37 Rev.1

-0.131955	-0.128730	-0.126364	-0.115051	-0.105780	-0.088859	-0.075285	-0.055245
-0.039545	-0.018171	-0.001736	0.019921	0.036263	0.057445	0.072858	0.092531
0.105701	0.122261	0.131329	0.142794	0.145827	0.150447	0.146100	0.143138
0.131350	0.121462	0.103628	0.088880	0.067579	0.050850	0.029070	0.013265
-0.006376	-0.019077	-0.034933	-0.043466	-0.055052	-0.059456	-0.067246	-0.068324
-0.073333	-0.072192	-0.075521	-0.073181	-0.075701	-0.072840	-0.075018	-0.071878
-0.073733	-0.070129	-0.071295	-0.066720	-0.066599	-0.060427	-0.058450	-0.050256
-0.046232	-0.036147	-0.030596	-0.019562	-0.013837	-0.003566	0.000364	0.007808
0.007973	0.010914	0.006138	0.004074	-0.005357	-0.011309	-0.023485	-0.030755
-0.042657	-0.048047	-0.056605	-0.057475	-0.060752	-0.056065	-0.054021	-0.044729
-0.039186	-0.027760	-0.021539	-0.010811	-0.006422	0.001709	0.003181	0.008540
0.007800	0.011816	0.010762	0.015474	0.015931	0.022618	0.025053	0.033214
0.036135	0.043404	0.043818	0.046932	0.041721	0.038120	0.025660	0.014937
-0.003831	-0.019414	-0.041093	-0.057340	-0.077390	-0.089922	-0.104619	-0.110806
-0.118935	-0.119107	-0.122483	-0.119743	-0.122352	-0.121017	-0.126922	-0.130228
-0.141349	-0.149507	-0.164177	-0.173701	-0.186854	-0.191565	-0.192151	-0.189897
-0.181061	-0.159142	-0.134626	-0.097938	-0.060853	-0.014940	0.179755	0.162952
0.110421	0.146867	0.170292	0.189754	0.192028	0.192028	-0.013503	-0.018796
0.135190	0.109035	0.076475	0.050192	0.021921	0.003738	0.058176	0.074624
-0.022452	-0.014623	-0.006678	0.010363	0.024522	0.044456	0.062607	0.054911
0.082353	0.091046	0.090123	0.090171	0.081467	0.075337	0.046630	0.057808
0.043120	0.038653	0.031925	0.033706	0.033637	0.062644	0.045871	0.030292
0.063556	0.072889	0.074187	0.076764	0.069556	-0.080359	-0.086179	-0.079317
0.006685	-0.013080	-0.037612	-0.054701	-0.072923	0.073309	0.102725	0.133753
-0.069990	-0.048284	-0.025566	0.007018	0.037229	0.161646	0.139516	0.118537
0.154246	0.173162	0.179248	0.182544	0.172959	-0.009811	-0.019643	-0.019109
0.090170	0.066640	0.039367	0.020255	0.000146	0.031124	0.037260	0.046411
-0.019087	-0.010074	-0.003508	0.009773	0.018221	0.045437	0.041210	0.043518
0.047952	0.052298	0.049436	0.050300	0.045256	0.070766	0.072130	0.076009
0.042364	0.048193	0.050430	0.058929	0.062567	-0.001532	-0.028834	-0.051457
0.071153	0.067270	0.053667	0.040750	0.018612	-0.126217	-0.118584	-0.098920
-0.078118	-0.096778	-0.116218	-0.124741	-0.131707	0.068304	0.087145	0.104887
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0.110286	0.113309	0.103795	0.092776	0.071065	-0.079964	-0.077709	-0.066250
-0.027283	-0.045825	-0.065153	-0.074021	-0.082379	-0.008138	-0.011910	-0.015124
-0.057261	-0.041895	-0.032082	-0.018946	-0.014107	-0.101894	-0.116007	-0.121113
-0.027747	-0.038619	-0.056974	-0.071116	-0.098992	-0.086456	-0.076384	-0.061878
-0.127078	-0.123469	-0.120952	-0.109841	-0.101429	-0.029861	-0.031333	-0.026919
-0.054108	-0.043242	-0.039827	-0.033349	-0.033711	0.024464	0.035703	0.051729
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0.061228	0.073694	0.078082	0.084309	0.081852	-0.004899	-0.018470	-0.026248
0.052856	0.043624	0.028653	0.018811	0.004103	-0.070879	-0.074797	-0.070244
-0.038608	-0.045169	-0.056163	-0.060962	-0.059506	0.026775	0.051098	0.080808
-0.066999	-0.054300	-0.042359	-0.020997	-0.001108	0.171528	0.164664	0.157668
0.104024	0.129613	0.145869	0.162106	0.167282	0.051629	0.033615	0.023176
0.141148	0.126640	0.105085	0.088131	0.066554	-0.017892	-0.025194	-0.027470
0.009950	0.004048	-0.005321	-0.008317	-0.015816	-0.045655	-0.045509	-0.037595
-0.034994	-0.037153	-0.043915	-0.044452	-0.048634	0.045302	0.062050	0.084198
-0.032167	-0.018905	-0.008337	0.009609	0.024191	0.166300	0.164460	0.162448
0.100735	0.121310	0.134797	0.150761	0.158060	0.033475	0.001590	-0.023159
0.149669	0.136576	0.113262	0.090910	0.060363	-0.077163	-0.069130	-0.053354
-0.049448	-0.065483	-0.080598	-0.083944	-0.086000	-0.032166	-0.052357	-0.072789
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-0.101960	-0.127134	-0.156009	-0.175531	-0.015434	0.024953	0.054931	0.082662
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0.096269	0.105385	0.099772	0.090663	-0.087147	-0.083661	-0.080604	-0.068848
-0.033580	-0.052561	-0.071694	-0.079832	-0.023171	-0.018509	-0.022762	-0.025294
-0.060209	-0.045851	-0.037574	-0.026254	-0.074257	-0.076768	-0.080455	-0.074261
-0.035824	-0.043049	-0.056166	-0.063543	0.010115	0.038343	0.060944	0.086652
-0.068198	-0.051952	-0.036329	-0.011798	0.015907	0.115907	0.056927	0.078879
0.103563	0.120719	0.126745	0.131405	0.124217	-0.044910	-0.055466	-0.055587
0.052922	0.031115	0.004820	-0.014001	-0.034359	-0.003943	0.002666	0.011913
-0.056000	-0.047112	-0.040344	-0.026584	-0.017495	-0.006100	-0.017122	-0.022708
0.012981	0.016097	0.011083	0.008734	-0.047099	-0.043871	-0.044194	-0.037792
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0.051141	0.066902	0.076677	0.090320	0.097017	0.089708	0.080003	0.075437
0.111435	0.111951	0.105480	0.102801	0.093963	0.034498	0.025371	0.021740
0.065784	0.061447	0.052043	0.047887	0.038581	0.008480	0.010130	0.018865
0.013520	0.011403	0.005392	0.006193	0.003716	0.070460	0.073856	0.080590
0.024001	0.035435	0.042247	0.054189	0.060314	0.066455	0.056056	0.049462
0.080172	0.082960	0.078689	0.077870	0.070296	-0.035451	-0.055538	-0.069968
0.036266	0.026762	0.010562	-0.001918	-0.020837	-0.112404	-0.106884	-0.092318
-0.088189	-0.098866	-0.111423	-0.114709	-0.118541	-0.015176	-0.017256	-0.019699
-0.080144	-0.061426	-0.048141	-0.031590	-0.023653	-0.103579	-0.111556	-0.107148
-0.032396	-0.043910	-0.062990	-0.077289	-0.094985	0.046271	0.077971	0.110904
-0.099962	-0.079612	-0.057210	-0.023867	0.007994	0.130689	0.106081	0.083861
0.132489	0.151415	0.156348	0.157460	0.145005	-0.003563	-0.000158	0.013299
0.056131	0.035636	0.014073	0.003338	-0.006043	0.071371	0.060898	0.048584
0.024694	0.042301	0.053555	0.066714	0.069631	-0.112620	-0.134741	-0.144386
0.024771	0.001155	-0.030782	-0.058488	-0.089983	-0.053779	-0.024794	0.008568
-0.150907	-0.143567	-0.133073	-0.110043	-0.086404	0.079037	0.063338	0.047360
0.033722	0.059091	0.072815	0.084302	0.082839	-0.086889	-0.102866	-0.109387
0.022326	0.000345	-0.027181	-0.048278	-0.071960	-0.104565	-0.103494	-0.097807
-0.117081	-0.116141	-0.117708	-0.112299	-0.111126	-0.074736	-0.067322	-0.051632
-0.097841	-0.092952	-0.093000	-0.086983	-0.084566	0.078574	0.099418	0.123252
-0.037941	-0.016077	0.003146	0.029394	0.051423	0.162145	0.148466	0.135556
0.138751	0.155422	0.162277	0.169212	0.165704	-0.000191	-0.022479	-0.036055
0.113758	0.094344	0.067971	0.046114	0.019566			

input file: dehor2.ath

output file with header and footer: dehor2.xls

Calculation GEO.DCPP.01.37 Rev.1

-0.050613	-0.055388	-0.060641	-0.056232	-0.053055	-0.041559	-0.033135	-0.018590
-0.009488	0.003396	0.008739	0.016198	0.015042	0.015614	0.007900	0.002922
-0.008778	-0.015795	-0.027423	-0.032327	-0.040100	-0.039898	-0.041933	-0.036047
-0.033113	-0.023536	-0.018587	-0.008859	-0.005581	0.000918	-0.000142	0.001489
-0.004337	-0.006758	-0.015408	-0.019065	-0.027206	-0.028658	-0.033140	-0.029892
-0.029142	-0.020683	-0.015266	-0.003111	0.004738	0.017934	0.025476	0.037212
0.042442	0.051379	0.053700	0.059947	0.060038	0.054645	0.063693	0.067754
0.066572	0.070488	0.069018	0.072315	0.069779	0.071538	0.067061	0.066628
0.059908	0.057408	0.049004	0.045347	0.036380	0.032727	0.024209	0.021255
0.013445	0.010962	0.003173	0.000121	-0.008870	-0.013694	-0.024852	-0.031984
-0.045287	-0.054079	-0.068276	-0.076990	-0.090030	-0.096525	-0.106415	-0.109074
-0.114736	-0.113108	-0.114746	-0.109610	-0.108438	-0.101250	-0.098756	-0.090842
-0.088020	-0.079971	-0.077002	-0.068645	-0.065137	-0.056030	-0.051674	-0.041798
-0.036967	-0.027127	-0.023005	-0.014627	-0.012691	-0.007071	-0.008200	-0.005600
-0.009310	-0.008469	-0.012795	-0.011222	-0.013420	-0.008447	-0.006271	0.003606
0.010667	0.024816	0.034972	0.050566	0.060201	0.073182	0.078202	0.084874
0.082376	0.080940	0.070432	0.061770	0.045430	0.032804	0.014668	0.002506
-0.013019	-0.020716	-0.030366	-0.031311	-0.033904	-0.028045	-0.024570	-0.013764
-0.006725	0.006138	0.013721	0.025716	0.031194	0.040075	0.041682	0.046188
0.043165	0.043011	0.035508	0.031243	0.020179	0.013073	0.000043	-0.008021
-0.020906	-0.027667	-0.038112	-0.041394	-0.047503	-0.045868	-0.046822	-0.040190
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0.000156	-0.002850	-0.013566	-0.021035	-0.034839	-0.043727	-0.057138	-0.063846
-0.073478	-0.075134	-0.078870	-0.074273	-0.071893	-0.061773	-0.054834	-0.041378
-0.032464	-0.018398	-0.010121	0.002268	0.008100	0.017580	0.020343	0.026862
0.026984	0.031328	0.029816	0.033077	0.030980	0.034059	0.032069	0.035420
0.033742	0.037345	0.035787	0.039328	0.037507	0.040594	0.038160	0.040524
0.037321	0.038938	0.035080	0.036200	0.032057	0.033142	0.029229	0.030794
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-0.004107	0.013561	0.024301	0.037771	0.043016	0.049962	0.048025	0.047574
0.038494	0.031601	0.017162	0.006265	-0.010684	-0.022597	-0.039205	-0.049664
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-0.021268	0.004765	0.026212	0.052105	0.070681	0.090945	0.101359	0.111428
0.110316	0.108395	0.095833	0.083962	0.063808	0.047400	0.026186	0.012310
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0.077034	0.098857	0.112084	0.125621	0.128077	0.129280	0.118857	0.107695
0.086431	0.066780	0.039975	0.018058	-0.007714	-0.025562	-0.044750	-0.054214
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-0.025133	-0.018906	-0.019744	-0.016993	-0.020471	-0.019122	-0.022553	-0.019707
-0.020397	-0.013959	-0.010729	-0.006626	0.005438	0.017053	0.022964	0.032616
0.034826	0.039324	0.035402	0.033396	0.023266	0.016006	0.002141	-0.006930
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0.041046	0.045481	0.044700	0.049432	0.049531	0.055372	0.056410	0.062645
0.063230	0.067992	0.066068	0.067430	0.061508	0.058669	0.048788	0.042666
0.030538	0.023440	0.011682	0.006210	-0.002905	-0.005077	-0.010658	-0.009478
-0.012252	-0.009059	-0.010709	-0.007223	-0.009203	-0.006355	-0.008909	-0.006205
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0.031466	0.046463	0.055711	0.069362	0.076754	0.087810	0.091589	0.097752
0.095186	0.093529	0.081846	0.070177	0.048199	0.026738	-0.003654	-0.031274
-0.064792	-0.091941	-0.121110	-0.140087	-0.157699	-0.162491	-0.164281	-0.152816
-0.139147	-0.114156	-0.089834	-0.057709	-0.030064	0.001665	0.025625	0.051087
0.067080	0.083827	0.091240	0.100265	0.101297	0.105493	0.103147	0.105078
0.101094	0.101418	0.095291	0.092488	0.082007	0.073627	0.056597	0.041182
0.017286	-0.004081	-0.032281	-0.055676	-0.083187	-0.102988	-0.124087	-0.135026
-0.145379	-0.144449	-0.142680	-0.130204	-0.118214	-0.097466	-0.079581	-0.055512
-0.036885	-0.014475	0.000405	0.017376	0.025565	0.035026	0.035287	0.036763
0.029299	0.023595	0.009763	-0.001234	-0.019024	-0.032389	-0.050731	-0.062666
-0.077523	-0.083984	-0.091608	-0.089485	-0.087759	-0.076245	-0.065893	-0.047340
-0.032279	-0.011911	0.001752	0.017498	0.023644	0.029629	0.024695	0.019391
0.004142	-0.009379	-0.029810	-0.048482	-0.062860	-0.071725	-0.080413	-0.077727
-0.073846	-0.058908	-0.044404	-0.021613	-0.002868	0.020101	0.034959	0.050420
0.054984	0.058495	0.050753	0.042924	0.026003	0.012097	-0.007213	-0.019638
-0.033829	-0.038111	-0.042045	-0.035051	-0.027852	-0.010971	0.003942	0.025697
0.042291	0.062506	0.074620	0.087958	0.091519	0.095442	0.089552	0.084742
0.071451	0.061013	0.044114	0.032138	0.015648	0.005776	-0.007267	-0.012757
-0.020904	-0.021392	-0.024799	-0.021126	-0.021211	-0.015251	-0.014209	-0.008345
-0.008615	-0.005197	-0.008890	-0.009643	-0.017957	-0.023424	-0.036155	-0.045342
-0.060720	-0.071169	-0.086207	-0.094619	-0.105974	-0.109250	-0.114345	-0.110676
-0.086664	-0.098245	-0.090331	-0.075294	-0.064343	-0.048006	-0.037492	-0.023184
-0.016020	-0.006032	-0.003765	0.001139	-0.001525	-0.001134	-0.007719	-0.010578
-0.019739	-0.024556	-0.035133	-0.040886	-0.051953	-0.057727	-0.068268	-0.072851
-0.081398	-0.083062	-0.087698	-0.084480	-0.083397	-0.073877	-0.066286	-0.050517
-0.037446	-0.017478	-0.001926	0.018487	0.032299	0.048839	0.056902	0.066269
0.066336	0.067577	0.060106	0.055052	0.043101	0.035728	0.023748	0.018588

input file: dehor2.ath

output file with header and footer: dehor2.xls

Calculation GEO.DCPP.01.37 Rev.1

0.010759	0.011219	0.009881	0.017049	0.021998	0.034466	0.043292	0.057952
0.067201	0.080605	0.087166	0.096810	0.098968	0.104012	0.101808	0.103072
0.097938	0.097317	0.091409	0.091106	0.086516	0.088384	0.086636	0.091815
0.093626	0.102383	0.107579	0.119297	0.126818	0.140012	0.147978	0.160434
0.166368	0.175497	0.176852	0.180319	0.175194	0.171726	0.159624	0.149595
0.131821	0.117394	0.096825	0.081386	0.061620	0.048682	0.032836	0.024846
0.014502	0.012069	0.006875	0.008799	0.006903	0.010956	0.010063	0.014166
0.012649	0.015794	0.013320	0.015782	0.013072	0.015784	0.013700	0.017164
0.015601	0.018954	0.016246	0.017091	0.010324	0.005550	-0.008199	-0.020909
-0.042951	-0.063579	-0.092364	-0.117769	-0.148655	-0.172970	-0.192270	-0.192270
-0.192270	-0.192271	-0.192271	-0.192271	-0.192271	-0.166501	-0.133876	-0.091153
-0.050534	-0.003653	0.037135	0.080297	0.113798	0.146595	0.167320	0.185680
0.191058	0.191907	0.184436	0.173679	0.152286	0.131803	0.103131	0.077942
0.047139	0.022263	-0.006011	-0.026479	-0.048874	-0.062442	-0.077386	-0.083415
-0.091149	-0.090637	-0.092754	-0.087696	-0.086364	-0.078878	-0.075971	-0.067528
-0.064017	-0.055063	-0.050914	-0.041045	-0.035651	-0.024261	-0.017215	-0.004277
0.003923	0.017323	0.025017	0.036732	0.041458	0.048941	0.048326	0.049648
0.042445	0.037219	0.024006	0.013791	-0.002980	-0.015016	-0.031705	-0.041745
-0.054673	-0.059478	-0.066099	-0.064008	-0.063657	-0.055021	-0.049001	-0.035927
-0.026946	-0.012515	-0.003773	0.008936	0.014676	0.023377	0.024413	0.028028
0.023891	0.022508	0.013752	0.008274	-0.003967	-0.012286	-0.026731	-0.036656
-0.052156	-0.062629	-0.078201	-0.088274	-0.102951	-0.111565	-0.124152	-0.129945
-0.138873	-0.140116	-0.143554	-0.138398	-0.134647	-0.121696	-0.109848	-0.088878
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0.116302	0.125572	0.123237	0.119749	0.105291	0.091187	0.068372	0.048739
0.023566	0.004813	-0.016467	-0.028815	-0.041905	-0.045173	-0.049256	-0.044524
-0.042436	-0.033968	-0.030912	-0.024275	-0.025566	-0.025230	-0.033998	-0.041397
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-0.131752	-0.119286	-0.107326	-0.086479	-0.068325	-0.043878	-0.024880	-0.002246
0.012593	0.029205	0.036759	0.045468	0.045125	0.046495	0.035808	0.036127
0.025830	0.019989	0.008877	0.003366	-0.006527	-0.010214	-0.017962	-0.019445
-0.025164	-0.024983	-0.029542	-0.028800	-0.033446	-0.033430	-0.035380	-0.041128
-0.049123	-0.052965	-0.062817	-0.067967	-0.078256	-0.082673	-0.090828	-0.091571
-0.094504	-0.088625	-0.083943	-0.069616	-0.056433	-0.034413	-0.014716	0.011929
0.033876	0.060099	0.078898	0.099457	0.110537	0.121992	0.123417	0.125591
0.118989	0.115137	0.105057	0.100539	0.092571	0.092582	0.090902	0.098115
0.103580	0.116915	0.126630	0.141684	0.150237	0.161267	0.163258	0.165836
0.158375	0.151551	0.135779	0.122676	0.103406	0.090029	0.073791	0.066446
0.058627	0.061176	0.063638	0.075700	0.085813	0.102738	0.114283	0.128882
0.134392	0.139669	0.133279	0.125050	0.104678	0.083157	0.051271	0.020953
-0.016298	-0.048124	-0.082908	-0.108472	-0.133636	-0.146891	-0.157870	-0.155959
-0.151703	-0.135325	-0.118108	-0.090898	-0.065402	-0.032701	-0.004586	0.027957
0.053379	0.081044	0.099845	0.119648	0.129869	0.140898	0.142637	0.145893
0.140908	0.138754	0.129807	0.125136	0.115056	0.110456	0.101357	0.096955
0.091133	0.089961	0.084250	0.084048	0.078646	0.078069	0.071678	0.069655
0.061581	0.057890	0.048423	0.043838	0.034141	0.030077	0.021645	0.019491
0.013430	0.013866	0.010336	0.012960	0.011023	0.014448	0.012404	0.014782
0.010816	0.010546	0.003418	-0.000267	-0.010792	-0.017590	-0.030713	-0.039426
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-0.123152	-0.124689	-0.130613	-0.130715	-0.135446	-0.134516	-0.138308	-0.136417
-0.139127	-0.135973	-0.137166	-0.132242	-0.131464	-0.124407	-0.121455	-0.112346
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-0.059856	-0.056828	-0.060239	-0.059324	-0.063902	-0.062976	-0.066232	-0.062665
-0.062095	-0.053793	-0.047975	-0.034407	-0.023858	-0.006641	0.005979	0.023303
0.033845	0.046867	0.051060	0.056070	0.051146	0.046626	0.032524	0.019944
-0.000406	-0.016867	-0.038373	-0.053139	-0.070220	-0.078185	-0.086645	-0.084878
-0.083281	-0.071921	-0.061923	-0.043944	-0.029517	-0.009495	-0.004611	0.022178
0.032093	0.044254	0.048136	0.054218	0.052504	0.053905	0.048719	0.047996
0.042029	0.041722	0.037117	0.038800	0.036461	0.040345	0.035845	0.044977
0.044992	0.049860	0.048872	0.052115	0.049066	0.050031	0.044727	0.043692
0.036853	0.034916	0.027915	0.025605	0.020990	0.021732	0.019671	0.022242
0.022018	0.028141	0.029878	0.037091	0.038810	0.044730	0.043811	0.045788
0.039780	0.035804	0.023363	0.012938	-0.005452	-0.020813	-0.042547	-0.059578
-0.080849	-0.094986	-0.111309	-0.118609	-0.126606	-0.124634	-0.123037	-0.111785
-0.101847	-0.083700	-0.068707	-0.047583	-0.031738	-0.017167	0.001192	0.016929
0.024756	0.034934	0.037211	0.042210	0.039938	0.041160	0.035907	0.034866
0.027914	0.025544	0.017434	0.013905	0.004512	-0.000473	-0.01476	-0.018147
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-0.114085	-0.118806	-0.127491	-0.129675	-0.135599	-0.134740	-0.137217	-0.132375
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0.123012	0.111516	0.088555	0.065569	0.033625	0.004731	-0.029721	-0.057657
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-0.137081	-0.125889	-0.120116	-0.110380	-0.107782	-0.102374	-0.104568	-0.103729
-0.109684	-0.111251	-0.117883	-0.118237	-0.121766	-0.117338	-0.114800	-0.103538
-0.094006	-0.076248	-0.061338	-0.039880	-0.023375	-0.002698	0.010567	0.025657
0.031290	0.037176	0.032637	0.028082	0.013569	0.000222	-0.021245	-0.039177
-0.062487	-0.079329	-0.098631	-0.108757	-0.119039	-0.118392	-0.116836	-0.104036
-0.090785	-0.067516	-0.045687	-0.016284	0.008832	0.038452	0.060687	0.084490
0.098317	0.111629	0.113519	0.114166	0.103439	0.092310	0.071363	0.052198
0.025908	0.004427	-0.021013	-0.038543	-0.057200	-0.065577	-0.073341	-0.069838
-0.065556	-0.050685	-0.036504	-0.013887	-0.005373	0.030095	0.048412	0.069322
0.081371	0.094173	0.097038	0.100434	0.094532	0.090592	0.079433	0.072761
0.061592	0.057580	0.051351	0.054034	0.055549	0.066113	0.074791	0.090979
0.103060	0.119954	0.129821	0.141619	0.143813	0.145905	0.137110	0.127758
0.107952	0.088890	0.061389	0.037220	0.007546	-0.015752	-0.041634	-0.058561
-0.076007	-0.083074	-0.089947	-0.086445	-0.083426	-0.071287	-0.061336	-0.044267
-0.031524	-0.013782	-0.002317	0.012485	0.019731	0.029488	0.031343	0.035842
0.033025	0.033826	0.028590	0.028452	0.023834	0.025813	0.024627	0.031043

input file: dehor2.ath

Calculation GEO.DCPP.01.37 Rev.1

output file with header and footer: dehor2.xls

0.034876	0.046392	0.054867	0.070028	0.080656	0.096090	0.104873	0.116267
0.118976	0.122616	0.116439	0.110767	0.095649	0.082287	0.061526	0.045231
0.024730	0.012103	-0.001410	-0.004125	-0.005493	0.005237	0.017514	0.040907
0.063720	0.094520	0.120834	0.150790	0.171819	0.191816	0.191816	0.191816
0.191816	0.185214	0.161162	0.136635	0.103241	0.073580	0.039576	0.013743
-0.012449	-0.027275	-0.040300	-0.040992	-0.040151	-0.028407	-0.017554	0.001041
0.015166	0.033371	0.043703	0.055272	0.056921	0.058720	0.050528	0.043403
0.028072	0.016259	-0.000894	-0.011531	-0.024667	-0.028867	-0.033787	-0.028790
-0.024408	-0.010885	0.000448	0.018699	0.032091	0.049521	0.059252	0.070508
0.072040	0.073740	0.065189	0.057108	0.039895	0.024991	0.003366	-0.013164
-0.033480	-0.045846	-0.059443	-0.063030	-0.066435	-0.059156	-0.051800	-0.034616
-0.018880	0.004620	0.024238	0.049005	0.067294	0.088338	0.100878	0.114627
0.118914	0.124060	0.119985	0.117549	0.107105	0.099831	0.086241	0.077541
0.064125	0.056957	0.046093	0.042099	0.034605	0.033763	0.028836	0.029685
0.025383	0.025719	0.019813	0.017617	0.008520	0.002825	-0.009675	-0.018257
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-0.059331	-0.042661	-0.027159	-0.003148	0.018102	0.045862	0.068581	0.095397
0.114784	0.136055	0.147995	0.160349	0.162411	0.164463	0.156355	0.148853
0.132222	0.117563	0.095349	0.076775	0.052299	0.033031	0.009273	-0.008060
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-0.081139	-0.071448	-0.064075	-0.049014	-0.037133	-0.018735	-0.004971	0.013629
0.025774	0.040921	0.047907	0.056467	0.055859	0.056356	0.047838	0.041225
0.027014	0.016656	0.001029	-0.008228	-0.020267	-0.023706	-0.028172	-0.022936
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0.084646	0.087136	0.078995	0.070882	0.053180	0.037368	0.014482	-0.003563
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0.068998	0.071227	0.068994	0.072374	0.070633	0.073711	0.070842	0.072050
0.066740	0.065180	0.057065	0.052957	0.042831	0.037477	0.027028	0.022346
0.013541	0.011363	0.005720	0.007098	0.005097	0.009870	0.010693	0.017425
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-0.015415	-0.002709	0.001187	0.005970	0.000949	-0.003496	-0.017359	-0.029602
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-0.109255	-0.096291	-0.088845	-0.076793	-0.070728	-0.060541	-0.056870	-0.049650
-0.049535	-0.046424	-0.050856	-0.052527	-0.061684	-0.067658	-0.080296	-0.088532
-0.101856	-0.108964	-0.119215	-0.121359	-0.124998	-0.119276	-0.114363	-0.100042
-0.087180	-0.066239	-0.048657	-0.025331	-0.007936	0.012615	0.024853	0.038281
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-0.023980	-0.030335	-0.039018	-0.039294	-0.041423	-0.035209	-0.031394	-0.020161
-0.012512	0.001242	0.010103	0.023875	0.031770	0.043864	0.049662	0.059528
0.063224	0.071310	0.073666	0.080892	0.082823	0.089934	0.091873	0.098879
0.100340	0.106232	0.105716	0.108577	0.103856	0.101338	0.090158	0.080308
0.061255	0.043424	0.016794	-0.007644	-0.039337	-0.066759	-0.098906	-0.123944
-0.150725	-0.167478	-0.183341	-0.187041	-0.188376	-0.176921	-0.163384	-0.138241
-0.113117	-0.079198	-0.048652	-0.012985	0.015626	0.045919	0.066225	0.086010
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0.044181	0.041157	0.036314	0.040117	0.041918	0.051433	0.057364	0.068941
0.074582	0.083449	0.084113	0.086090	0.078475	0.071431	0.054769	0.039376
0.015742	-0.004666	-0.030927	-0.051318	-0.074862	-0.089981	-0.106035	-0.111959
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-0.017564	-0.002884	0.003130	0.010445	0.008656	0.008397	-0.000133	-0.005817
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0.153797	0.147529	0.127147	0.104136	0.069788	0.036496	-0.003846	-0.038572
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0.001728	0.003592	0.004295	0.014225	0.022725	0.039506	0.053238	0.073031
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0.052324	0.057303	0.058435	0.065133	0.065992	0.070370	0.067101	0.066039
0.056693	0.049681	0.035258	0.024670	0.008611	-0.001480	-0.014982	-0.020764
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0.008558	0.018382	0.022839	0.032562	0.037560	0.048569	0.055512	0.068857
0.078111	0.093229	0.103188	0.117453	0.124661	0.134104	0.134437	0.135205
0.125530	0.115572	0.095127	0.075085	0.045932	0.019124	-0.014431	-0.043030
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0.006220	0.027199	0.037428	0.046009	0.041636	0.034147	0.013163	-0.010428
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input file: dehor2.ath

Calculation GEO.DCPP.01.37 Rev.1

output file with header and footer: dehor2.xls

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0.091968	0.090623	0.079996	0.070752	0.053062	0.038026	0.016221	-0.000910
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0.024497	0.002324	-0.024006	-0.042744	-0.063050	-0.073619	-0.084169	-0.084027
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0.057691	0.074519	0.087451	0.106080	0.119112	0.135874	0.144932	0.155598
0.156599	0.157570	0.147743	0.137350	0.116341	0.095708	0.066129	0.039289
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0.050375	0.054361	0.053720	0.058423	0.057562	0.060847	0.057241	0.056475
0.047688	0.040940	0.025819	0.012921	-0.007589	-0.024555	-0.047316	-0.064337
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0.075719	0.073395	0.064579	0.059866	0.049224	0.043430	0.032602	0.027611
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0.032384	0.042175	0.046624	0.055720	0.058849	0.066239	0.067513	0.073107
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0.009611	0.020984	0.029539	0.045649	0.058788	0.078961	0.095280	0.117426
0.134249	0.155217	0.169058	0.185234	0.191714	0.191714	0.191714	0.191714
0.183687	0.170817	0.147898	0.125979	0.095603	0.068279	0.034941	0.007334
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input file: dehor2.ath

Calculation GEO.DCPP.01.37 Rev.1

output file with header and footer: dehor2.xls

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input file: dehor2.ath

Calculation GEO.DCPP.01.37 Rev.1

output file with header and footer: dehor2.xls

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input file: dehor2.ath

Calculation GEO.DCPP.01.37 Rev.1

output file with header and footer: dehor2.xls

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-0.029222	-0.015907	-0.008623	0.002559	0.006974	0.014812	0.015676	0.020014
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0.000393	0.001865	-0.001416	0.000788	-0.002039	0.000292	-0.002738	-0.000894
-0.004610	-0.003534	-0.007959	-0.007386	-0.011971	-0.011104	-0.014856	-0.012626
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0.019909	0.012179	-0.001689	-0.010689	-0.024506	-0.032124	-0.043310	-0.047215
-0.053840	-0.052624	-0.053885	-0.047375	-0.043701	-0.032866	-0.025672	-0.012243
-0.003435	0.010639	0.019196	0.032237	0.039123	0.050019	0.054444	0.062705
0.064449	0.070080	0.069313	0.072592	0.069652	0.070946	0.066203	0.065872
0.059682	0.058090	0.050841	0.048413	0.040585	0.037868	0.030071	0.027730
0.020669	0.019428	0.013818	0.014354	0.010803	0.013621	0.012511	0.017848
0.019242	0.026976	0.030560	0.040172	0.045224	0.059021	0.064411	0.074657
0.079038	0.087548	0.089479	0.094879	0.093136	0.094434	0.088338	0.085322
0.074904	0.067968	0.054432	0.045103	0.030140	0.020442	0.006204	-0.001719
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-0.015456	-0.007755	-0.005373	0.001628	0.002623	0.007730	0.006540	0.009387
0.006072	0.007105	0.002426	0.002621	-0.002335	-0.001894	-0.006149	-0.004668
-0.007678	-0.004896	-0.006681	-0.002881	-0.003940	0.000226	-0.000844	0.002937
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-0.011386	-0.011514	-0.016499	-0.015962	-0.019980	-0.018229	-0.020834	-0.017556
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0.009259	0.014767	0.014590	0.018801	0.017266	0.020155	0.017447	0.019387
0.016032	0.017649	0.014306	0.016217	0.013396	0.015944	0.013773	0.016849
0.014980	0.018026	0.015736	0.017925	0.014368	0.014920	0.009464	0.007964
0.000463	-0.002933	-0.012013	-0.016548	-0.026203	-0.030691	-0.039627	-0.042750
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0.015807	0.019743	0.017331	0.018401	0.013318	0.012029	0.005039	0.002367
-0.005404	-0.008251	-0.015593	-0.017483	-0.023416	-0.023590	-0.027617	-0.025870
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0.001110	0.012275	0.017323	0.024972	0.026003	0.029415	0.026324	0.025994
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0.021217	0.023790	0.021931	0.024082	0.021458	0.022415	0.018193	0.017162
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0.004580	0.014626	0.020667	0.030034	0.034446	0.041298	0.042509	0.045655
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0.003673	0.008462	0.009189	0.012751	0.011874	0.013536	0.010649	0.010315
0.005644	0.003845	-0.001817	-0.004097	-0.009666	-0.011330	-0.015788	-0.015983
-0.018702	-0.017065	-0.017960	-0.014675	-0.014165	-0.009826	-0.008616	-0.003975
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0.009808	0.009718	0.005791	0.004375	-0.000828	-0.003394	-0.009465	-0.012542
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-0.022062	-0.015491	-0.011185	-0.003449	0.001293	0.008648	0.012243	0.017720
0.018872	0.021479	0.019585	0.019154	0.014494	0.011733	0.005382	0.001640
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-0.013388	-0.009166	-0.007619	-0.003472	-0.002546	0.000496	0.000018	0.001490
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0.012217	0.013435	0.010865	0.009608	0.004687	0.001362	-0.005130	-0.009431
-0.016176	-0.020017	-0.025583	-0.027653	-0.030957	-0.030495	-0.031156	-0.028189
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input file: dehor2.ath

Calculation GEO.DCPP.01.37 Rev.1

output file with header and footer: dehor2.xls

-0.004722	-0.004353	-0.007244	-0.008609	-0.012842	-0.015120	-0.019771	-0.022031
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0.002163	-0.002080	-0.008435	-0.012689	-0.018320	-0.021217	-0.024930	-0.025537
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0.000888	0.005424	0.007559	0.010754	0.011470	0.013239	0.012648	0.013264
0.011758	0.011679	0.009734	0.009416	0.007432	0.007194	0.005403	0.005386
0.003845	0.004040	0.002689	0.003008	0.001753	0.002111	0.000887	0.001251
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0.008656	0.008401	0.006717	0.006346	0.004714	0.004530	0.003239	0.003487
0.002722	0.003509	0.003284	0.004535	0.004690	0.006173	0.006429	0.007846
0.007914	0.009013	0.008707	0.009385	0.008693	0.009032	0.008117	0.008342
0.007463	0.007834	0.007223	0.007913	0.007658	0.008659	0.008652	0.009765
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0.005801	0.005027	0.003336	0.002834	0.001617	0.001718	0.001205	0.002010
0.002161	0.003492	0.004006	0.005468	0.005897	0.007037	0.006970	0.007459
0.006684	0.006452	0.005042	0.004295	0.002568	0.001699	0.000076	-0.000510
-0.001682	-0.001737	-0.002332	-0.001859	-0.002007	-0.001244	-0.001260	-0.000557
-0.000783	-0.000436	-0.001082	-0.001190	-0.002235	-0.002656	-0.003856	-0.004271
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0.002170	0.002520	0.002133	0.002018	0.001196	0.000684	-0.000449	-0.001188
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-0.001592	-0.001153	-0.000800	-0.000127	0.000374	0.001085	0.001529	0.002082
0.002301	0.002568	0.002483	0.002440	0.002079	0.001801	0.001278	0.000907
0.000376	0.000063	-0.000339	-0.000477	-0.000663	-0.000578	-0.000535	-0.000245
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0.002248	0.002177	0.002026	0.001984	0.001877	0.001876	0.001815	0.001854
0.001830	0.001895	0.001896	0.001974	0.001987	0.002068	0.002087	0.002169
0.002194	0.002279	0.002314	0.002406	0.002450	0.002547	0.002597	0.002691
0.002736	0.002813	0.002837	0.002884	0.002877	0.002886	0.002842	0.002814
0.002741	0.002686	0.002597	0.002532	0.002445	0.002387	0.002317	0.002278
0.002232	0.002216	0.002193	0.002195	0.002188	0.002199	0.002198	0.002209
0.002205	0.002207	0.002196	0.002187	0.002166	0.002148	0.002120	0.002095
0.002063	0.002035	0.002004	0.001977	0.001948	0.001923	0.001898	0.001877
0.001856	0.001838	0.001820	0.001804	0.001787	0.001771	0.001755	0.001738

input file: devert.ath

output file with header and footer: devert.xls

Calculation GEO.DCPP.01.37 Rev. 1

PG&E, DESIGN EARTHQUAKE, VERTICAL
OUTPUT ACCELERATION TIME HISTORY (G'S)

NPTS= 8192, dt= 0.050SEC

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0.000179	0.000190	0.000214	0.000233	0.000264	0.000284	0.000314	0.000329
0.000351	0.000351	0.000359	0.000338	0.000325	0.000282	0.000249	0.000185
0.000140	0.000069	0.000030	-0.000027	-0.000034	-0.000048	0.000002	0.000053
0.000178	0.000298	0.000492	0.000662	0.000889	0.001064	0.001272	0.001393
0.001526	0.001547	0.001570	0.001471	0.001389	0.001197	0.001050	0.000822
0.000678	0.000483	0.000406	0.000295	0.000323	0.000308	0.000432	0.000486
0.000655	0.000716	0.000861	0.000852	0.000899	0.000758	0.000653	0.000340
0.000066	-0.000423	-0.000850	-0.001474	-0.002000	-0.002688	-0.003221	-0.003877
-0.004318	-0.004841	-0.005104	-0.005426	-0.005468	-0.005584	-0.005433	-0.005407
-0.005160	-0.005108	-0.004886	-0.004923	-0.004823	-0.004997	-0.005014	-0.005276
-0.005302	-0.005493	-0.005344	-0.005274	-0.004768	-0.004299	-0.003361	-0.002488
-0.001200	-0.000076	0.001337	0.002435	0.003690	0.004480	0.005328	0.005631
0.005966	0.005751	0.005638	0.005040	0.004657	0.003892	0.003466	0.002743
0.002431	0.001876	0.001758	0.001365	0.001410	0.001124	0.001229	0.000956
0.001045	0.000716	0.000759	0.000383	0.000412	0.000066	0.000202	0.000004
0.000382	0.000497	0.001244	0.001764	0.002962	0.003896	0.005464	0.006584
0.008399	0.009570	0.011066	0.011756	0.012541	0.012322	0.012008	0.010544
0.008988	0.006294	0.003654	0.000131	-0.003031	-0.006691	-0.009544	-0.012511
-0.014219	-0.015742	-0.015769	-0.015447	-0.013659	-0.011644	-0.008392	-0.005295
-0.001326	0.001970	0.005716	0.008354	0.011052	0.012389	0.013578	0.013359
0.013039	0.011414	0.010001	0.007502	0.005598	0.002988	0.001281	-0.000769
-0.001643	-0.002678	-0.002350	-0.002195	-0.000680	0.000544	0.002877	0.004688
0.007304	0.008993	0.011197	0.012123	0.013259	0.012920	0.012646	0.010812
0.009137	0.006004	0.003262	-0.000653	-0.003821	-0.007835	-0.010714	-0.014083
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0.000983	0.002736	0.005243	0.006195	0.007793	0.007619	0.008160	0.006971
0.006624	0.004915	0.004351	0.002801	0.002958	0.002433	0.003998	0.005229
0.008576	0.011596	0.016628	0.020889	0.026725	0.031301	0.036778	0.040355
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0.032796	0.027857	0.024373	0.019823	0.017146	0.013634	0.011990	0.009510
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0.019555	0.020875	0.023939	0.025323	0.028404	0.029491	0.031806	0.031741
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0.044111	0.044526	0.045296	0.042923	0.040955	0.036021	0.031611	0.024498
0.018267	0.009647	0.002446	-0.006667	-0.013841	-0.022229	-0.028081	-0.034694
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0.002890	0.003743	0.006190	0.006834	0.009288	0.010001	0.012577	0.013507
0.016038	0.016772	0.019105	0.019356	0.021238	0.021201	0.022854	0.022977
0.025202	0.026311	0.029979	0.032865	0.038538	0.043492	0.050935	0.057203
0.065401	0.071381	0.078313	0.082171	0.085890	0.085746	0.085090	0.080313
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0.021649	0.025080	0.028224	0.027749	0.027608	0.024815	0.023521	0.020781
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0.048095	0.048304	0.047736	0.042821	0.037046	0.027130	0.017249	0.004531
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-0.066026	-0.067780	-0.065481	-0.062494	-0.055772	-0.049031	-0.039305	-0.030797
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Calculation GEO.DCPP.01.37 Rev. 1

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0.043472	0.027902	0.014410	0.000155	-0.010966	-0.022053	-0.029545	-0.036805
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-0.096151	-0.082860	-0.065454	-0.048337	-0.028857	-0.011571	0.006185	0.020147
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0.042466	0.037629	0.034972	0.031169	0.029531	0.026756	0.026011	0.023712
0.023173	0.020662	0.019748	0.016895	0.015714	0.012886	0.012228	0.010399
0.011166	0.011202	0.013985	0.015984	0.020418	0.023465	0.028044	0.030143
0.032737	0.031546	0.029749	0.023561	0.016137	0.004233	-0.008278	-0.024459
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0.125384	0.111297	0.095707	0.076795	0.059442	0.041613	0.028386	0.017409
0.012837	0.011641	0.017241	0.025254	0.038293	0.051379	0.066283	0.077999
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0.009260	0.013694	0.021359	0.028132	0.036813	0.043505	0.051130	0.055918
0.061276	0.063581	0.066663	0.067139	0.068694	0.068194	0.069174	0.068192
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Calculation GEO.DCPP.01.37 Rev. 1

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input file: devert.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: devert.xls

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input file: devert.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: devert.xls

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0.035291	0.037217	0.040073	0.040535	0.042192	0.041546	0.042288	0.041210

input file: devert.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: devert.xls

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input file: devert.ath

output file with header and footer: devert.xls

Calculation GEO.DCPP.01.37 Rev. 1

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0.078590	0.079493	0.078708	0.072302	0.063612	0.049482	0.033948	0.014474
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0.019376	0.013688	0.011134	0.008318	0.008635	0.008289	0.010428	0.011192
0.013663	0.013854	0.015097	0.013523	0.012416	0.008333	0.004648	-0.002004
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0.064878	0.065865	0.067721	0.066526	0.065564	0.061148	0.056892	0.049450
0.042821	0.034007	0.027094	0.019307	0.014589	0.009987	0.009197	0.008710
0.011971	0.015059	0.020892	0.025495	0.031672	0.035287	0.039496	0.040331
0.041169	0.038566	0.036059	0.030474	0.025673	0.018415	0.012585	0.004958
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0.008885	0.011860	0.018270	0.024071	0.031977	0.037836	0.044271	0.047117
0.049357	0.047041	0.043659	0.035719	0.027150	0.015035	0.003488	-0.010030
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0.098925	0.096595	0.095711	0.093075	0.092115	0.089406	0.088393	0.085344
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0.088212	0.082429	0.077268	0.069490	0.062912	0.054188	0.046814	0.037490
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Calculation GEO.DCPP.01.37 Rev. 1

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0.002193	-0.003383	-0.003088	-0.000838	0.005854	0.012599	0.021721	0.028506
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0.006513	0.000281	-0.001729	-0.002646	0.001393	0.006853	0.016645	0.026715
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Calculation GEO.DCPP.01.37 Rev. 1

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input file: devert.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: devert.xls

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0.031083	0.026575	0.023244	0.017831	0.014126	0.008913	0.005858	0.001602
-0.000256	-0.003234	-0.003792	-0.005496	-0.004969	-0.005672	-0.004236	-0.004247
-0.002195	-0.001697	0.000694	0.001418	0.003857	0.004450	0.006602	0.006683
0.008193	0.007556	0.008249	0.006849	0.006893	0.004953	0.004685	0.002651
0.002419	0.000636	0.000722	-0.000798	-0.000435	-0.001800	-0.001484	-0.003017
-0.002942	-0.004817	-0.005058	-0.007136	-0.007424	-0.009333	-0.009291	-0.010644
-0.009956	-0.010702	-0.009428	-0.009815	-0.008480	-0.009057	-0.008211	-0.009512
-0.009483	-0.011564	-0.012127	-0.014490	-0.014846	-0.016515	-0.015721	-0.015738

input file: devert.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: devert.xls

-0.013014	-0.011020	-0.006358	-0.002710	0.003099	0.007208	0.012786	0.015932
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-0.039742	-0.041627	-0.040854	-0.041082	-0.038956	-0.038042	-0.035087	-0.033736
-0.030620	-0.029395	-0.026675	-0.025987	-0.023848	-0.023736	-0.022016	-0.022110
-0.020347	-0.020081	-0.017717	-0.016639	-0.013307	-0.011280	-0.007114	-0.004397
0.000132	0.002836	0.007043	0.009107	0.012399	0.013376	0.015571	0.015507
0.016806	0.016085	0.016994	0.016169	0.017184	0.016625	0.018044	0.017878
0.019607	0.019679	0.021476	0.021433	0.022996	0.022601	0.023687	0.022791
0.023349	0.021893	0.021920	0.019869	0.019321	0.016669	0.015453	0.012181
0.010350	0.006581	0.004404	0.000520	-0.001438	-0.004807	-0.005848	-0.007959
-0.007528	-0.007936	-0.005755	-0.004563	-0.000988	0.001233	0.005367	0.007623
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0.010527	0.008138	0.007867	0.006381	0.007332	0.007244	0.009636	0.010938
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0.023454	0.025515	0.028980	0.030168	0.032375	0.032016	0.032410	0.029954
0.028253	0.023760	0.020113	0.014141	0.009462	0.002942	-0.001571	-0.007358
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0.029378	0.029797	0.031166	0.029712	0.028856	0.024969	0.021578	0.015412
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-0.022109	-0.021353	-0.017772	-0.015231	-0.010565	-0.007688	-0.003477	-0.001730
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-0.010233	-0.012495	-0.012240	-0.012903	-0.010968	-0.009830	-0.006134	-0.003435
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0.035943	0.036661	0.038097	0.036751	0.036150	0.032877	0.030553	0.025903
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0.008958	0.005689	0.004515	0.002508	0.003181	0.003497	0.006858	0.009895
0.015880	0.021222	0.028913	0.035333	0.043275	0.049137	0.055714	0.059453
0.063409	0.064079	0.064744	0.062239	0.059891	0.054759	0.050364	0.043749
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0.007426	0.005989	0.005670	0.003921	0.003562	0.002118	0.002274	0.001543
0.002528	0.002598	0.004305	0.004913	0.006924	0.007602	0.009395	0.009677
0.010932	0.010539	0.011124	0.010156	0.010218	0.008877	0.008762	0.007367
0.007312	0.006137	0.006316	0.005389	0.005822	0.005092	0.005621	0.004917
0.005386	0.004530	0.004825	0.003746	0.003828	0.002661	0.002684	0.001633
0.001944	0.001343	0.002304	0.002428	0.004249	0.005240	0.007770	0.009357
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0.009228	0.008979	0.009460	0.008885	0.009090	0.008267	0.008272	0.007305
0.007179	0.006140	0.005994	0.004963	0.004874	0.003969	0.004017	0.003303
0.003582	0.003118	0.003651	0.003476	0.004277	0.004330	0.005327	0.005521
0.006534	0.006641	0.007429	0.007164	0.007431	0.006502	0.006009	0.004280
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input file: devert.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: devert.xls

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0.001663	0.002120	0.002776	0.002875	0.003208	0.003023	0.003104	0.002729
0.002649	0.002160	0.001992	0.001444	0.001243	0.000689	0.000491	-0.000025
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0.000898	0.000429	0.000238	-0.000151	-0.000258	-0.000563	-0.000616	-0.000881
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0.000511	0.000521	0.000531	0.000531	0.000532	0.000524	0.000518	0.000505
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0.000457	0.000459	0.000463	0.000466	0.000469	0.000471	0.000472	0.000471
0.000469	0.000467	0.000464	0.000461	0.000459	0.000458	0.000458	0.000460

**CALCULATION PACKAGE
GEO.DCPP.01.37 REV. 1
SUPPORTING DOCUMENT**

**SPECTRAL COMPATIBLE
ACCELERATION TIME HISTORIES**

HOSGRI EARTHQUAKE

Prepared by
Pacific Engineering and Analysis (2001)

input file: hehor1.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hehor1.xls

PG&E, HOSGRI EARTHQUAKE, HORIZONTAL 1
OUTPUT ACCELERATION TIME HISTORY (G'S)

NPTS= 9625, dt= 0.050SEC

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-0.001213	-0.001214	-0.001234	-0.001267	-0.001303	-0.001324	-0.001318	-0.001277
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-0.001573	-0.001732	-0.001845	-0.001899	-0.001898	-0.001857	-0.001796	-0.001736
-0.001699	-0.001702	-0.001755	-0.001868	-0.002039	-0.002259	-0.002504	-0.002745
-0.002948	-0.003089	-0.003152	-0.003138	-0.003057	-0.002914	-0.002706	-0.002412
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0.001383	0.001108	0.000830	0.000661	0.000661	0.000811	0.001025	0.001185
0.001192	0.001007	0.000677	0.000320	0.000094	0.000134	0.000509	0.001187
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input file: hehor1.ath

output file with header and footer: hehor1.xls

Calculation GEO.DCPP.01.37 Rev. 1

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input file: hehor1.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hehor1.xls

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input file: hehor1.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hehor1.xls

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0.025786	0.033986	0.057603	0.077333	0.075614	0.045007	-0.007436	0.410014
-0.092432	-0.078322	-0.011949	0.096447	0.221580	0.331528	0.398935	-0.116574
0.368291	0.291409	0.202660	0.121263	0.055495	0.001448	-0.052306	0.081850
-0.193778	-0.274205	-0.338068	-0.362318	-0.329565	-0.235211	-0.090163	0.395903
0.251173	0.390573	0.482240	0.521317	0.515327	0.480289	0.435071	0.343743
0.372541	0.366814	0.373811	0.383902	0.388608	0.382305	0.365357	

input file: hehor1.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hehor1.xls

0.326219	0.319926	0.325925	0.336994	0.338811	0.314722	0.252354	0.149495
0.016541	-0.125700	-0.252516	-0.343387	-0.388776	-0.392675	-0.370365	-0.342146
-0.325855	-0.331037	-0.356964	-0.394698	-0.431917	-0.458299	-0.469066	-0.465410
-0.451756	-0.431526	-0.403509	-0.360766	-0.292925	-0.191188	-0.053997	0.109235
0.278329	0.426849	0.529757	0.571318	0.550239	0.479932	0.383881	0.287698
0.211069	0.162558	0.139126	0.130066	0.123298	0.111258	0.093840	0.077444
0.070915	0.080674	0.107327	0.145353	0.185914	0.221233	0.248210	0.269258
0.289912	0.314485	0.341986	0.364711	0.370387	0.347368	0.290272	0.203452
0.100256	-0.001888	-0.088384	-0.153322	-0.201550	-0.245819	-0.300279	-0.373181
-0.462152	-0.554123	-0.630096	-0.672658	-0.673204	-0.635612	-0.575003	-0.512050
-0.465085	-0.443209	-0.442806	-0.448796	-0.439757	-0.395347	-0.303216	-0.163382
0.011202	0.197753	0.369382	0.501681	0.578471	0.595206	0.559340	0.487701
0.401749	0.322140	0.264085	0.234825	0.233531	0.253266	0.283919	0.315047
0.337822	0.345982	0.336165	0.308268	0.265858	0.216407	0.170321	0.138586
0.129334	0.144544	0.178490	0.219222	0.252824	0.268934	0.265065	0.247531
0.228108	0.218078	0.222188	0.235621	0.245599	0.237034	0.199683	0.133427
0.049046	-0.035812	-0.103733	-0.144154	-0.156618	-0.149326	-0.134045	-0.120047
-0.110533	-0.103080	-0.093959	-0.083459	-0.079073	-0.094105	-0.141685	-0.226626
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0.221213	0.343706	0.402800	0.410284	0.389356	0.362429	0.340653	0.319644
0.283142	0.212674	0.098707	-0.051968	-0.216073	-0.361250	-0.457898	-0.490299
-0.462252	-0.394835	-0.317399	-0.255628	-0.221894	-0.211714	-0.207604	-0.188526
-0.140531	-0.064115	0.024885	0.101097	0.139742	0.126723	0.064592	-0.027968
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0.127060	0.184175	0.251259	0.332998	0.424736	0.512605	0.577861	0.603565
0.580657	0.511098	0.407017	0.286453	0.167676	0.064305	-0.017146	-0.076785
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-0.300338	-0.257040	-0.207692	-0.165545	-0.141255	-0.139801	-0.159527	-0.193766
-0.234026	-0.273275	-0.308110	-0.338764	-0.367338	-0.395254	-0.421333	-0.441604
-0.450937	-0.445575	-0.425234	-0.393531	-0.356484	-0.319842	-0.286543	-0.255658
-0.223298	-0.184999	-0.138267	-0.083995	-0.026640	0.030649	0.082219	0.127249
0.166649	0.202210	0.234843	0.263597	0.285948	0.299360	0.303218	0.300056
0.295561	0.297005	0.311043	0.341464	0.387964	0.446139	0.508739	0.567662
0.615797	0.648238	0.662630	0.658580	0.636904	0.598918	0.546488	0.482615
0.412268	0.342739	0.282856	0.241243	0.223861	0.231930	0.261250	0.303063
0.346422	0.380852	0.398598	0.395446	0.370317	0.324260	0.259458	0.179021
0.087444	-0.008724	-0.100852	-0.179248	-0.235203	-0.263191	-0.262656	-0.238437
-0.199784	-0.158072	-0.124108	-0.105785	-0.106857	-0.126855	-0.162094	-0.207121
-0.256137	-0.303799	-0.345573	-0.377581	-0.396448	-0.399559	-0.385733	-0.356130
-0.315014	-0.269696	-0.229518	-0.203734	-0.198846	-0.216461	-0.252235	-0.296797
-0.338460	-0.366973	-0.376912	-0.369317	-0.350683	-0.329575	-0.312254	-0.298902
-0.282601	-0.251514	-0.193975	-0.104308	0.013093	0.143323	0.264724	0.355675
0.401801	0.400942	0.363662	0.309334	0.259126	0.228704	0.223310	0.236975
0.255821	0.263951	0.249699	0.209955	0.151365	0.087937	0.036427	0.010803
0.017834	0.055106	0.111992	0.173157	0.223474	0.252622	0.258076	0.245319
0.225411	0.210816	0.210917	0.228925	0.261072	0.298250	0.329307	0.344689
0.339123	0.312640	0.269755	0.217315	0.162027	0.108436	0.058128	0.010123
-0.037846	-0.087723	-0.139875	-0.192506	-0.242058	-0.284125	-0.314557	-0.330081
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0.434424	0.535302	0.588124	0.585538	0.531755	0.441521	0.335087	0.231339
0.141540	0.066767	-0.000061	-0.068101	-0.141616	-0.215579	-0.276240	-0.306854
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0.104477	0.102588	0.083699	0.042544	-0.015095	-0.072398	-0.106758	-0.098276
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-0.212014	-0.207661	-0.212389	-0.212733	-0.197563	-0.163587	-0.116845	-0.069803
-0.035712	-0.023052	-0.032437	-0.057196	-0.086859	-0.111667	-0.125969	-0.129071
-0.123547	-0.112215	-0.095514	-0.070562	-0.032136	0.024956	0.103347	0.201417
0.312911	0.427878	0.534413	0.620626	0.676468	0.695405	0.575790	0.621835
0.543671	0.456184	0.376374	0.319530	0.295259	0.304520	0.339092	0.382825
0.421234	0.436768	0.423142	0.382186	0.323555	0.261177	0.208525	0.174720
0.162418	0.168073	0.183970	0.201089	0.211885	0.212127	0.201501	0.183129
0.162161	0.143637	0.130345	0.121244	0.111073	0.091561	0.054142	-0.006551
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-0.387787	-0.398534	-0.396525	-0.382496	-0.355792	-0.314797	-0.258914	-0.191053
-0.119131	-0.055392	-0.013098	-0.001810	-0.023076	-0.068748	-0.123074	-0.168120
-0.190432	-0.186140	-0.162163	-0.132782	-0.112866	-0.110877	-0.124755	-0.142733
-0.148996	-0.131432	-0.087982	-0.028523	0.028670	0.064575	0.067742	0.039595
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0.172075	0.151167	0.116221	0.084594	0.070460	0.079665	0.108563	0.146983
0.183726	0.212147	0.233104	0.254091	0.284986	0.332294	0.394601	0.461300
0.515193	0.538362	0.518576	0.454117	0.354763	0.238622	0.125997	0.032711
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-0.313210	-0.269902	-0.224331	-0.184790	-0.155036	-0.133412	-0.113819	-0.088211
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0.303235	0.258451	0.203375	0.150461	0.109980	0.087369	0.082187	0.089062
0.100232	0.108846	0.111794	0.111046	0.112823	0.125084	0.154051	0.201429
0.263018	0.329536	0.389126	0.430808	0.447644	0.438534	0.408172	0.365479
0.321079	0.284759	0.263367	0.259730	0.272496	0.296655	0.324813	0.348648

input file: hehor1.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hehor1.xls

0.360828	0.356727	0.335830	0.301924	0.262008	0.224021	0.193933	0.173328
0.158622	0.142452	0.116706	0.076078	0.020698	-0.043323	-0.105789	-0.155966
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-0.118551	-0.133701	-0.152912	-0.173395	-0.192030	-0.205565	-0.211342	-0.208636
-0.199607	-0.189568	-0.185842	-0.195559	-0.223001	-0.267512	-0.322962	-0.379128
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-0.366498	-0.382426	-0.394799	-0.394577	-0.376883	-0.342250	-0.295660	-0.243746
-0.191792	-0.141960	-0.093682	-0.045866	0.000393	0.040326	0.066314	0.070953
0.051030	0.010341	-0.040301	-0.086326	-0.114776	-0.119513	-0.103819	-0.079071
-0.059775	-0.056984	-0.073058	-0.100014	-0.122406	-0.123699	-0.093585	-0.033016
0.045120	0.120224	0.171471	0.185469	0.161249	0.110283	0.051925	0.005940
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0.004296	0.043042	0.082188	0.124907	0.172083	0.221149	0.266528	0.301554
0.321349	0.325318	0.318146	0.308622	0.306520	0.318529	0.345071	0.379148
0.408296	0.418860	0.401185	0.353573	0.283327	0.204354	0.132351	0.079301
0.049780	0.040331	0.042119	0.045575	0.044892	0.040394	0.037731	0.044379
0.065125	0.098659	0.136920	0.167533	0.178410	0.162431	0.120404	0.061020
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0.162389	0.152177	0.120119	0.066979	0.000260	-0.067190	-0.120899	-0.149604
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0.211885	0.254345	0.264697	0.245829	0.206964	0.159968	0.115599	0.080940
0.058800	0.048697	0.048634	0.056544	0.070758	0.089606	0.110777	0.131118
0.147308	0.157053	0.160093	0.158406	0.155194	0.152961	0.151809	0.148789
0.138951	0.117841	0.084476	0.043147	0.003145	-0.023801	-0.027524	-0.003288
0.046027	0.110343	0.175286	0.226472	0.253600	0.252882	0.227147	0.183909
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0.084334	0.122165	0.150000	0.166857	0.176280	0.183885	0.194014	0.207063
0.218577	0.220727	0.205466	0.168257	0.110878	0.041970	-0.025032	-0.075979
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0.012921	0.046832	0.056025	0.046417	0.029802	0.018570	0.020589	0.036288
0.058909	0.077586	0.081796	0.065375	0.028552	-0.022562	-0.078489	-0.129593
-0.168660	-0.192042	-0.199193	-0.191326	-0.170147	-0.137272	-0.094635	-0.045460
0.004970	0.049369	0.079680	0.089063	0.073869	0.034774	-0.023362	-0.092871
-0.165335	-0.233500	-0.292252	-0.338642	-0.371023	-0.388002	-0.387790	-0.368257
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0.192753	0.171765	0.131971	0.086294	0.048351	0.028774	0.032224	0.056241
0.092419	0.129624	0.158015	0.172427	0.173629	0.167174	0.160134	0.157407
0.159163	0.150698	0.154799	0.135478	0.101450	0.057606	0.013668	-0.019398
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0.045070	0.056160	0.080110	0.111452	0.139177	0.150508	0.135358	0.090009
0.018421	-0.069054	-0.159009	-0.238950	-0.300601	-0.341244	-0.363081	-0.370878
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0.047722	0.039386	0.031817	0.019998	0.001013	-0.024454	-0.052403	-0.077353
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0.041308	0.085146	0.125784	0.156770	0.174535	0.180332	0.180029	0.181432
0.190522	0.208277	0.229901	0.246838	0.250837	0.237919	0.210366	0.175702
0.143159	0.119474	0.106031	0.098733	0.090525	0.075307	0.051183	0.021579
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0.036833	0.006229	-0.039876	-0.083274	-0.107094	-0.102378	-0.071426	-0.026432
0.016019	0.041964	0.045605	0.030962	0.009079	-0.007663	-0.011402	-0.002115
0.012982	0.023456	0.021045	0.003839	-0.022572	-0.047376	-0.059025	-0.049788
-0.018440	0.029803	0.085744	0.139669	0.184261	0.215893	0.234214	0.240668
0.236971	0.224396	0.204024	0.177309	0.146544	0.114567	0.083965	0.056181
0.031223	0.008251	-0.013191	-0.032023	-0.045351	-0.049449	-0.041701	-0.022610
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-0.043656	-0.010967	0.041876	0.102175	0.154220	0.184813	0.187933	0.166955
0.133281	0.101920	0.085682	0.090335	0.112605	0.141905	0.164932	0.171285
0.157669	0.128945	0.095826	0.070371	0.061290	0.071028	0.095596	0.126963
0.156677	0.179038	0.192521	0.199075	0.201893	0.202943	0.201336	0.193458
0.174429	0.140483	0.090945	0.029243	-0.037486	-0.099963	-0.149036	-0.177973
-0.184124	-0.169621	-0.140836	-0.106668	-0.076025	-0.055118	-0.045397	-0.042991
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input file: hehor1.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hehor1.xls

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0.135927	0.129675	0.137230	0.157510	0.184860	0.211080	0.228512	0.232895
0.224905	0.209472	0.193514	0.182808	0.179555	0.181595	0.183584	0.179473
0.165151	0.140042	0.107055	0.071046	0.036752	0.007110	-0.017241	-0.037250
-0.054083	-0.067939	-0.077729	-0.081729	-0.078822	-0.069576	-0.056575	-0.043842
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0.148892	0.156244	0.155961	0.145295	0.125307	0.100497	0.077144	0.060930
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0.038500	0.036985	0.035266	0.036947	0.045433	0.061703	0.082955	0.102880
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0.074059	0.060718	0.059892	0.072360	0.093779	0.116046	0.130156	0.129479
0.112076	0.081273	0.044035	0.008158	-0.020703	-0.040758	-0.053909	-0.063829
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0.146288	0.131773	0.106513	0.075629	0.046750	0.027079	0.020553	0.026438
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0.012221	0.030740	0.047131	0.058022	0.061457	0.057131	0.046350	0.031692
0.016391	0.003576	-0.004479	-0.006826	-0.003849	0.003119	0.012405	0.022553
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0.105558	0.131979	0.152078	0.160693	0.155340	0.137099	0.110253	0.080873
0.054650	0.035271	0.023503	0.017599	0.014625	0.012081	0.009026	0.006216
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0.059794	0.033778	0.015638	0.013563	0.029422	0.057346	0.085554	0.100864
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0.081766	0.084760	0.090844	0.099171	0.107100	0.110857	0.106615	0.091908
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input file: hehor1.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hehor1.xls

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0.014660	0.028615	0.030450	0.019509	-0.001078	-0.025464	-0.047118	-0.061023
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0.081524	0.092802	0.100376	0.105659	0.111134	0.119012	0.130010	0.142726
0.153917	0.159684	0.157038	0.145211	0.126233	0.104437	0.085072	0.072459
0.068506	0.072011	0.079139	0.084881	0.084977	0.077561	0.063892	0.047848
0.034380	0.027521	0.028731	0.036257	0.045736	0.051845	0.050358	0.039834
0.022302	0.002667	-0.012987	-0.019563	-0.014825	-0.000295	0.019157	0.036956
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0.087503	0.087293	0.084658	0.080123	0.074353	0.067728	0.059951	0.049979
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0.063362	0.067571	0.065161	0.057071	0.045310	0.032240	0.019995	0.010190
0.003906	0.001810	0.004261	0.011260	0.022280	0.036101	0.050829	0.064193
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0.029626	0.024137	0.020046	0.017708	0.017877	0.021384	0.028598	0.038920
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input file: hehor1.ath

output file with header and footer: hehor1.xls

Calculation GEO.DCPP.01.37 Rev. 1

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0.057497	0.055082	0.058760	0.068088	0.080811	0.093517	0.102662	0.105622
0.101380	0.090769	0.076017	0.060027	0.045485	0.034163	0.026590	0.022117
0.019336	0.016697	0.013158	0.008634	0.004077	0.001135	0.001450	0.005848
0.013743	0.023050	0.030731	0.033821	0.030547	0.021032	0.007280	-0.007622
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0.048808	0.054380	0.056785	0.055222	0.050041	0.042558	0.034439	0.026970
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0.031283	0.035526	0.040628	0.044933	0.047584	0.048947	0.050389	0.053553
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input file: hehor1.ath

output file with header and footer: hehor1.xls

Calculation GEO.DCPP.01.37 Rev. 1

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0.058969	0.067464	0.073486	0.076474	0.076853	0.075687	0.074136	0.072954
0.072201	0.071281	0.069221	0.065081	0.058329	0.049081	0.038126	0.026785
0.016604	0.008975	0.004750	0.003999	0.005976	0.009332	0.012525	0.014306
0.014083	0.012003	0.008711	0.004926	0.001007	-0.003268	-0.008596	-0.015741
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0.067373	0.064740	0.060947	0.058327	0.058722	0.062718	0.069396	0.076668
0.082105	0.083833	0.081149	0.074606	0.065586	0.055622	0.045805	0.036560
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input file: hehor1.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hehor1.xls

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0.012345	0.012299	0.013531	0.016938	0.023878	0.035173	0.050130	0.066161
0.079330	0.085708	0.083001	0.071711	0.055238	0.038777	0.027396	0.024087
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0.024681	0.031675	0.034950	0.034199	0.030583	0.026079	0.022571	0.021113
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input file: hehor1.ath

output file with header and footer: hehor1.xls

Calculation GEO.DCPP.01.37 Rev. 1

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input file: hehor1.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hehor1.xls

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input file: hehor1.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hehor1.xls

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-0.000084	0.000194	0.000424	0.000687	0.001048	0.001535	0.002125	0.002748
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0.002482	0.002356	0.002290	0.002268	0.002284	0.002342	0.002440	0.002547
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0.002411	0.002553	0.002634	0.002608	0.002458	0.002190	0.001836	0.001432
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-0.001894	-0.001690	-0.001472	-0.001281	-0.001135	-0.001026	-0.000926	-0.000802
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0.001810	0.001570	0.001322	0.001107	0.000953	0.000865	0.000830	0.000826
0.000825	0.000808	0.000769	0.000710	0.000641	0.000574	0.000515	0.000463
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input file: hehor2.ath

output file with header and footer: hehor2.xls

PG&E, HOSGRI EARTHQUAKE, HORIZONTAL 2
 OUTPUT ACCELERATION TIME HISTORY (G'S)
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-0.001975	-0.001709	-0.001531	-0.001331	-0.001195	-0.000984	-0.000828	-0.000598
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0.000226	-0.000193	-0.000761	-0.000985	-0.001247	-0.001204	-0.001494	-0.001755
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0.007605	0.007694	0.006592	0.006054	0.004677	0.003878	0.001423	0.000127
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0.111560	0.106675	0.100645	0.098670	0.096300	0.097913	0.084659	0.081029
0.100265	0.101174	0.099254	0.097907	0.093356	0.090767	0.074448	0.071519
0.075372	0.073144	0.071470	0.074971	0.076082	0.077634	-0.000496	-0.013419
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0.102596	0.103133	0.098313	0.096057	0.087736	0.081141	0.067037	0.081193
0.041494	0.031943	0.024284	0.026893	0.031547	0.045716	0.060146	0.199996
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0.131257	0.109257	0.083076	0.067637	0.057849	0.062528	0.068889	0.083809
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0.088169	0.112416	0.128452	0.143937	0.147550	0.146582	0.131600	0.115618
0.094893	0.081105	0.068493	0.069800	0.073566	0.085022	0.090961	0.098555
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input file: hehor2.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hehor2.xls

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0.241637	0.257439	0.266508	0.273924	0.272141	0.267593	0.246602	0.220247
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input file: hehor2.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hehor2.xls

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input file: hehor2.ath

output file with header and footer: hehor2.xls

Calculation GEO.DCPP.01.37 Rev. 1

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0.134198	0.146622	0.132536	0.106383	0.067014	0.043312	0.032943	0.046557
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0.038835	0.007548	-0.036321	-0.079722	-0.123912	-0.158154	-0.173974	-0.172005
-0.176820	-0.178921	-0.194109	-0.209256	-0.223576	-0.219874	-0.195771	-0.143435
-0.079369	-0.007012	0.052278	0.101993	0.132108	0.161351	0.176590	0.188371
0.210872	0.257272	0.307925	0.376153	0.440290	0.497686	0.531621	0.529938
0.505315	0.471839	0.413505	0.355855	0.290463	0.223388	0.150039	0.085388
0.019843	-0.038111	-0.090021	-0.124800	-0.154349	-0.173076	-0.193578	-0.203931
-0.212571	-0.213162	-0.215366	-0.207348	-0.198627	-0.177942	-0.156501	-0.127666
-0.092689	-0.052068	-0.018769	0.019287	0.053205	0.091339	0.124692	0.166226
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0.045070	0.015944	0.006362	0.017398	0.037708	0.068769	0.098451	0.138033
0.179282	0.239146	0.296725	0.352121	0.392799	0.421705	0.436434	0.447134
0.444992	0.435506	0.404498	0.369043	0.328773	0.289993	0.249009	0.215594
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0.198191	0.262787	0.303740	0.318286	0.323824	0.326517	0.306402	0.276884
0.228219	0.172231	0.108573	0.056550	0.012870	-0.018947	-0.048771	-0.063790
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0.286745	0.261510	0.212550	0.150238	0.069267	-0.007633	-0.068806	-0.162841
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0.263812	0.259610	0.222094	0.163934	0.090763	0.019789	-0.052207	-0.102328
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0.239167	0.241533	0.213534	0.167124	0.104159	0.056039	0.007451	-0.036838
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-0.568009	-0.505483	-0.424363	-0.325494	-0.226299	-0.125564	-0.043347	0.028692
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0.191225	0.197131	0.227006	0.275895	0.323855	0.367205	0.389237	0.401150
0.397713	0.397754	0.407005	0.427629	0.434116	0.427710	0.388716	0.321783
0.237225	0.169048	0.122923	0.119292	0.158276	0.226596	0.287102	0.336531

input file: hehor2.ath

output file with header and footer: hehor2.xls

Calculation GEO.DCPP.01.37 Rev. 1

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-0.270966	-0.389021	-0.490613	-0.573152	-0.653436	-0.702141	-0.725163	-0.717962
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0.101767	0.085708	0.084828	0.098210	0.112619	0.298513	0.172014	0.207989
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-0.061124	0.016492	0.101324	0.192580	0.272497	0.319958	-0.139306	0.266264
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-0.538941	-0.512442	-0.431903	-0.295927	-0.140051	0.023724	0.163593	0.254525
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0.205474	0.289409	0.342000	0.375201	0.377537	0.372488	0.354352	0.333044
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0.046300	0.071063	0.097704	0.121472	0.125511	0.115138	0.082836	0.040308
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0.171279	0.123145	0.067512	0.025706	0.005479	0.025004	0.071260	0.130733
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input file: hehor2.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hehor2.xls

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0.106454	0.090756	0.092801	0.120693	0.158759	0.203526	0.239369	0.265552
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0.268793	0.275484	0.262612	0.248749	0.231103	0.224544	0.219913	0.218108
0.211865	0.206673	0.194810	0.193310	0.194309	0.214036	0.244646	0.287169
0.326215	0.365423	0.388139	0.393269	0.369523	0.331589	0.274989	0.216726
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0.198899	0.208986	0.204539	0.200826	0.192880	0.189452	0.184515	0.188054
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0.145704	0.190043	0.222428	0.251610	0.266318	0.293011	0.322795	0.352732
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input file: hehor2.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hehor2.xls

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input file: hehor2.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hehor2.xls

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Calculation GEO.DCPP.01.37 Rev. 1

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-0.045116	-0.032570	-0.026675	-0.013769	-0.004502	0.007990	0.015146	0.024017
0.025344	0.026994	0.020139	0.016266	0.006164	-0.000895	-0.013703	-0.020434
-0.029544	-0.034858	-0.044613	-0.050974	-0.067583	-0.083688	-0.104687	-0.120803
-0.136959	-0.141998	-0.142783	-0.130778	-0.118844	-0.100277	-0.087903	-0.073835
-0.067045	-0.057604	-0.052971	-0.042530	-0.033851	-0.020438	-0.012054	-0.000035
0.004912	0.014617	0.019955	0.028697	0.035040	0.046306	0.051402	0.060435
0.063975	0.070382	0.069496	0.070796	0.067305	0.065670	0.057914	0.056361
0.049246	0.044163	0.034016	0.027316	0.014094	0.006802	0.000228	0.003177
0.007937	0.022879	0.035573	0.052495	0.061694	0.070244	0.069816	0.071213
0.065342	0.063033	0.059603	0.062462	0.063944	0.069965	0.069840	0.071159
0.066470	0.066854	0.065039	0.069250	0.070118	0.076041	0.073948	0.071894
0.060975	0.051261	0.034907	0.022485	0.006068	-0.004336	-0.016573	-0.023006

input file: hehor2.ath

output file with header and footer: hehor2.xls

Calculation GEO.DCPP.01.37 Rev. 1

-0.030906	-0.029406	-0.030044	-0.026169	-0.028668	-0.028000	-0.034211	-0.042108
-0.055213	-0.061162	-0.069677	-0.071240	-0.075939	-0.075415	-0.081214	-0.085677
-0.093294	-0.093063	-0.093305	-0.083575	-0.074942	-0.059138	-0.046877	-0.030921
-0.020168	-0.006730	-0.000064	0.009251	0.013376	0.020690	0.023243	0.030210
0.030994	0.032684	0.025026	0.017610	0.000385	-0.013346	-0.028533	-0.035527
-0.043185	-0.045641	-0.053683	-0.058737	-0.069973	-0.075820	-0.080881	-0.074957
-0.067018	-0.049403	-0.033902	-0.015313	-0.004822	0.005821	0.010047	0.017068
0.020539	0.027535	0.029592	0.035516	0.032049	0.026605	0.013147	0.002595
-0.013267	-0.021014	-0.025785	-0.019200	-0.013978	-0.005259	-0.005100	-0.005900
-0.014179	-0.018251	-0.023713	-0.019579	-0.016283	-0.008340	-0.006972	-0.003091
-0.005993	-0.003495	-0.002054	0.005342	0.008084	0.013151	0.010861	0.011085
0.005084	0.004492	0.003653	0.010231	0.012305	0.019449	0.020720	0.024047
0.023122	0.027081	0.028309	0.037267	0.041519	0.049599	0.052916	0.058469
0.058037	0.061649	0.059839	0.057902	0.044871	0.033348	0.014981	0.000353
-0.015645	-0.022163	-0.030593	-0.032177	-0.035018	-0.033643	-0.036439	-0.032714
-0.033674	-0.031424	-0.034765	-0.035362	-0.040926	-0.039625	-0.038661	-0.028643
-0.021307	-0.011107	-0.009995	-0.010582	-0.021294	-0.030564	-0.044492	-0.051424
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-0.083138	-0.089240	-0.093767	-0.087246	-0.079903	-0.063207	-0.052827	-0.043029
-0.040874	-0.036314	-0.037813	-0.036820	-0.041337	-0.040586	-0.043493	-0.040548
-0.038522	-0.026873	-0.016968	-0.002940	0.002962	0.008943	0.010004	0.015477
0.016367	0.023715	0.027202	0.033120	0.033285	0.038846	0.039708	0.045910
0.048871	0.055544	0.056559	0.060589	0.058360	0.059579	0.056390	0.058973
0.057878	0.062528	0.064879	0.074164	0.078196	0.084606	0.085837	0.086846
0.078161	0.072734	0.063775	0.062777	0.060819	0.066361	0.068652	0.072967
0.068487	0.064436	0.051979	0.040692	0.024570	0.014456	0.000760	-0.005544
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0.021026	0.023836	0.018841	0.014819	0.003647	-0.005118	-0.019678	-0.029085
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-0.001615	0.005309	0.007027	0.012782	0.011812	0.011829	0.002979	-0.005568
-0.017864	-0.026337	-0.038934	-0.043130	-0.049732	-0.048117	-0.046120	-0.038733
-0.037597	-0.033083	-0.035453	-0.037796	-0.044957	-0.044153	-0.044394	-0.035885
-0.028304	-0.016234	-0.011546	-0.006089	-0.007715	-0.005737	-0.006428	0.001678
0.006831	0.015081	0.015345	0.012911	-0.001860	-0.016601	-0.035242	-0.044271
-0.051428	-0.046494	-0.041434	-0.032728	-0.030128	-0.027282	-0.032828	-0.035225
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-0.014507	-0.010449	-0.010609	-0.002536	0.002988	0.010505	0.008257	0.004465
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-0.033109	-0.027566	-0.024863	-0.016522	-0.012999	-0.004755	-0.002098	0.002181
-0.001444	-0.003664	-0.013185	-0.023693	-0.041720	-0.054812	-0.070312	-0.077332
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-0.006532	0.017701	0.035585	0.053239	0.058631	0.060630	0.054582	0.051880
0.046289	0.047388	0.045506	0.050084	0.049716	0.051124	0.045965	0.043917
0.035782	0.030958	0.021797	0.018812	0.014982	0.020037	0.023646	0.033885
0.040098	0.049139	0.053146	0.062341	0.065982	0.074819	0.081532	0.092348
0.098041	0.106177	0.107381	0.107656	0.096754	0.090545	0.077323	0.066906
0.054832	0.049098	0.038625	0.031532	0.017230	0.001529	-0.020914	-0.037084
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0.014859	0.007589	-0.009515	-0.023240	-0.041048	-0.051342	-0.060925	-0.061578
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-0.035041	-0.028420	-0.025363	-0.020960	-0.027559	-0.034818	-0.048943	-0.059609
-0.070215	-0.068219	-0.063794	-0.050455	-0.040968	-0.030780	-0.030468	-0.029302
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0.010962	0.018739	0.021172	0.027893	0.031084	0.040922	0.046655	0.055020
0.058390	0.063070	0.057220	0.053051	0.044013	0.038844	0.030358	0.029269
0.025873	0.028437	0.026791	0.030737	0.031071	0.035754	0.035632	0.039535
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0.095660	0.094379	0.085632	0.080842	0.071353	0.066515	0.057684	0.054652
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0.057123	0.073764	0.085901	0.102234	0.113781	0.127429	0.134110	0.144055
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-0.036797	-0.041047	-0.050684	-0.053956	-0.057042	-0.051946	-0.052821	-0.051055
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-0.035214	-0.026241	-0.025323	-0.025291	-0.036402	-0.044002	-0.052891	-0.051980
-0.049175	-0.036257	-0.024865	-0.009981	-0.002173	0.005574	0.004590	0.006762
0.001208	-0.001675	-0.009085	-0.011771	-0.019429	-0.023148	-0.028832	-0.026406
-0.025862	-0.018510	-0.012255	0.001216	0.008689	0.016059	0.017541	0.025148
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-0.013408	-0.005046	-0.003445	-0.003363	-0.012422	-0.020018	-0.031688	-0.033609
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0.038549	0.031102	0.017975	0.010157	0.001487	0.000133	-0.003906	-0.002206
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0.007745	0.009112	0.004867	0.003345	-0.004159	-0.005816	-0.006141	0.006179
0.020347	0.039933	0.051918	0.057143	0.042323	0.023209	-0.003501	-0.020180

input file: hehor2.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hehor2.xls

-0.027645	-0.018026	-0.003213	0.020012	0.035274	0.046895	0.042740	0.035927
0.022219	0.012873	0.004815	0.006076	0.002203	0.004699	0.003541	0.003360
-0.001855	-0.000107	-0.001342	0.004402	0.008240	0.015200	0.016077	0.022832
0.027775	0.037507	0.043003	0.053842	0.054168	0.053128	0.044365	0.036641
0.023351	0.013300	-0.001117	-0.012307	-0.029198	-0.037167	-0.045289	-0.043518
-0.040667	-0.031672	-0.027361	-0.018668	-0.017838	-0.016663	-0.018198	-0.011455
-0.005971	0.009598	0.025290	0.046593	0.061381	0.076115	0.078320	0.076538
0.063968	0.051204	0.033424	0.022048	0.009751	0.005689	-0.000429	0.001259
0.001943	0.009561	0.013287	0.020800	0.019544	0.017778	0.007296	-0.002351
-0.017334	-0.024728	-0.031982	-0.030193	-0.027783	-0.018239	-0.011821	-0.001783
0.001555	0.005983	0.001421	0.000201	-0.005087	-0.003639	-0.002905	0.004040
0.006960	0.014032	0.012835	0.011178	0.002978	-0.001625	-0.009934	-0.009678
-0.009112	-0.001239	0.002593	0.011561	0.014353	0.017702	0.013800	0.013652
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0.018314	0.024527	0.021884	0.021555	0.017783	0.021654	0.026169	0.037285
0.042893	0.049864	0.046884	0.043972	0.032981	0.026715	0.019581	0.021365
0.022687	0.030477	0.036198	0.044747	0.043448	0.043991	0.036728	0.032424
0.026739	0.029822	0.033697	0.047014	0.059080	0.074565	0.082241	0.091480
0.092594	0.097019	0.098452	0.106125	0.107431	0.109981	0.102954	0.094528
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0.027695	0.029743	0.027766	0.031031	0.029501	0.033133	0.033209	0.038816
0.040844	0.046994	0.048117	0.053281	0.051176	0.052632	0.050949	0.052785
0.049688	0.051080	0.046237	0.042645	0.033546	0.028881	0.020125	0.017027
0.010242	0.011689	0.011296	0.015867	0.016771	0.022670	0.023032	0.025596
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0.028402	0.027338	0.018775	0.013779	0.003477	-0.001422	-0.006069	-0.003070
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0.020485	0.016584	0.009427	0.011001	0.012626	0.021837	0.025684	0.031887
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0.056604	0.050182	0.043604	0.045654	0.044269	0.045641	0.040015	0.037321
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input file: hehor2.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hehor2.xls

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input file: hehor2.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hehor2.xls

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input file: hehor2.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hehor2.xls

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Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hevert.xls

PG&E, HOSGRI EARTHQUAKE, VERTICAL
OUTPUT ACCELERATION TIME HISTORY (G'S)

NPTS= 9625, dt= .0050SEC

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0.054908	0.042323	0.021040	-0.005711	-0.034622	-0.063111	-0.089257	-0.111445
-0.127904	-0.136891	-0.137369	-0.130019	-0.117824	-0.105660	-0.098771	-0.100863
-0.112406	-0.130117	-0.148032	-0.159615	-0.159838	-0.146767	-0.121645	-0.087860
-0.049326	-0.009364	0.029768	0.066466	0.099083	0.125495	0.143360	0.151005
0.148298	0.136939	0.120023	0.100896	0.081921	0.063813	0.045917	0.027094
0.006916	-0.013727	-0.032790	-0.047994	-0.057906	-0.062666	-0.053802	-0.063421
-0.063078	-0.063130	-0.062806	-0.060864	-0.056477	-0.049876	-0.042204	-0.034825
-0.028414	-0.022476	-0.015426	-0.005505	0.008253	0.025352	0.043950	0.061585
0.076243	0.087155	0.095056	0.101538	0.108135	0.115342	0.122326	0.127080

input file: hevert.ath

output file with header and footer: hevert.xls

Calculation GEO.DCPP.01.37 Rev. 1

0.127355	0.121696	0.110154	0.094528	0.078002	0.064270	0.056576	0.056729
0.064578	0.077748	0.092033	0.102200	0.103238	0.091555	0.066188	0.029199
-0.014554	-0.058613	-0.096409	-0.122853	-0.135495	-0.134772	-0.123371	-0.105241
-0.084255	-0.063485	-0.044823	-0.029121	-0.016522	-0.006704	0.001228	0.008796
0.018151	0.031567	0.050564	0.074940	0.102235	0.127897	0.146576	0.153804
0.147758	0.130190	0.106015	0.081764	0.063485	0.054747	0.055594	0.062825
0.071398	0.076331	0.074457	0.065227	0.050634	0.034218	0.019727	0.009875
0.005787	0.006871	0.011310	0.016975	0.022241	0.026333	0.029512	0.032557
0.036043	0.039648	0.041943	0.040770	0.034153	0.021336	0.003737	-0.015306
-0.031511	-0.041231	-0.042900	-0.037703	-0.028980	-0.020667	-0.015362	-0.013126
-0.011410	-0.006402	0.004946	0.023110	0.045334	0.066319	0.080148	0.082476
0.072024	0.050903	0.023752	-0.003966	-0.027648	-0.044776	-0.055283	-0.061175
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-0.219585	-0.220663	-0.209588	-0.188934	-0.162825	-0.135473	-0.110015	-0.087897
-0.069219	-0.053706	-0.041588	-0.033923	-0.032066	-0.036644	-0.046438	-0.058167
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0.053285	0.079208	0.093297	0.094152	0.083136	0.063871	0.041139	0.019747
0.003570	-0.005243	-0.006357	-0.001160	0.007800	0.017505	0.025052	0.028114
0.025374	0.016761	0.003623	-0.011431	-0.024735	-0.032293	-0.030673	-0.017929
0.005854	0.038441	0.075909	0.113464	0.146414	0.171017	0.184942	0.187529
0.179712	0.163751	0.143058	0.121449	0.102679	0.089496	0.082972	0.082054
0.083835	0.084324	0.079721	0.067629	0.047939	0.022900	-0.003485	-0.026587
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0.040337	0.042256	0.040343	0.036931	0.034267	0.033699	0.035270	0.037744
0.039377	0.038926	0.036435	0.033245	0.031494	0.032904	0.037646	0.044013
0.049145	0.050294	0.046321	0.038490	0.030171	0.025388	0.027113	0.035902
0.049639	0.064192	0.075006	0.078678	0.073892	0.061505	0.043918	0.024078
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0.016636	0.017189	0.013889	0.009633	0.007968	0.011653	0.021401	0.035447
0.050233	0.061766	0.067266	0.066132	0.059872	0.050975	0.041669	0.032956
0.024479	0.015258	0.004873	-0.005888	-0.015143	-0.020931	-0.022356	-0.020333
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-0.001734	0.028708	0.061175	0.090348	0.112146	0.124595	0.127792	0.123344
0.113583	0.100779	0.086742	0.072665	0.059160	0.046367	0.034062	0.021752
0.008778	-0.005567	-0.021766	-0.040020	-0.060103	-0.081217	-0.102043	-0.120894
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0.147151	0.148190	0.139090	0.120697	0.095298	0.065792	0.034997	0.005236
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0.013916	0.001075	-0.004952	-0.002690	0.007201	0.021283	0.033920	0.038838
0.031355	0.010288	-0.021202	-0.056671	-0.088674	-0.111356	-0.122247	-0.122684
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0.093912	0.094867	0.093909	0.092415	0.091089	0.089424	0.085665	0.077274
0.062033	0.039284	0.010712	-0.019943	-0.048058	-0.069909	-0.084178	-0.092563
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0.086369	0.068705	0.056922	0.050382	0.046756	0.043130	0.037293	0.028569
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-0.038405	-0.004869	0.037537	0.081181	0.116696	0.135782	0.133878	0.111770
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0.148909	0.134160	0.112377	0.088265	0.065461	0.050184	0.040416	0.035823
0.033419	0.029665	0.021927	0.009641	-0.004882	-0.016760	-0.020075	-0.010178
0.013995	0.048333	0.083944	0.109604	0.115742	0.098282	0.060870	0.014176
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0.077358	0.065293	0.050151	0.031560	0.010094	-0.012933	-0.035542	-0.055102

input file: hevert.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hevert.xls

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0.120015	0.122763	0.115435	0.103139	0.091800	0.086014	0.087786	0.096412
0.109471	0.124109	0.137882	0.149048	0.156540	0.159716	0.158424	0.153070
0.144866	0.135614	0.127165	0.120610	0.115786	0.111155	0.104488	0.093736
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0.054153	0.049017	0.039281	0.028254	0.020066	0.018123	0.024013	0.037196
0.055766	0.078003	0.103779	0.134896	0.174188	0.223342	0.280884	0.340971
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0.238029	0.190880	0.156851	0.146795	0.160577	0.188050	0.215004	0.230711
0.233439	0.230599	0.233490	0.249573	0.276497	0.301771	0.308062	0.281698
0.220065	0.133655	0.041574	-0.036825	-0.089582	-0.116218	-0.125247	-0.128015
-0.132209	-0.138174	-0.140556	-0.132972	-0.112980	-0.084878	-0.057568	-0.040631
-0.039790	-0.054773	-0.080459	-0.110068	-0.138152	-0.161665	-0.179163	-0.188996
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-0.290916	-0.250862	-0.204333	-0.150761	-0.093804	-0.041025	-0.000971	0.020642
0.023984	0.014988	0.002412	-0.006603	-0.009691	-0.009747	-0.012861	-0.023389
-0.044094	-0.069522	-0.093726	-0.110847	-0.118420	-0.118095	-0.113748	-0.108323
-0.101492	-0.089264	-0.066000	-0.028162	0.022976	0.080876	0.136198	0.180721
0.210800	0.228665	0.240706	0.253593	0.270592	0.289892	0.305893	0.312581
0.306901	0.290289	0.267458	0.243313	0.219413	0.192642	0.156599	0.104940
0.035238	-0.049450	-0.141411	-0.231536	-0.312866	-0.382470	-0.440755	-0.488810
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-0.254051	-0.247669	-0.262347	-0.289799	-0.321731	-0.352797	-0.380911	-0.405351
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0.444964	0.442480	0.423425	0.399322	0.379391	0.366718	0.357730	0.345892
0.326807	0.301950	0.279414	0.269906	0.281022	0.312536	0.355054	0.392604
0.408769	0.393032	0.344825	0.273806	0.196364	0.129580	0.085760	0.069211
0.076209	0.097758	0.123341	0.144737	0.158071	0.163497	0.163477	0.160586
0.155761	0.147893	0.134925	0.115666	0.091425	0.066658	0.048059	0.042485
0.053983	0.082180	0.121672	0.163345	0.197272	0.216012	0.217142	0.204225
0.185913	0.173108	0.175622	0.199166	0.243475	0.302279	0.365084	0.419776
0.455626	0.465989	0.449529	0.410361	0.357237	0.300998	0.252301	0.219311

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Calculation GEO.DCPP.01.37 Rev. 1

0.205834	0.210741	0.228615	0.251355	0.270685	0.280345	0.277342	0.262165
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-0.057835	-0.064314	-0.065179	-0.056043	-0.035041	-0.003356	0.035235	0.075906
0.114511	0.148122	0.174720	0.192543	0.199465	0.192879	0.170740	0.133007
0.082927	0.027290	-0.024964	-0.065441	-0.089043	-0.095582	-0.089613	-0.078674
-0.070239	-0.069169	-0.076729	-0.091529	-0.111410	-0.135311	-0.163964	-0.198553
-0.238383	-0.279272	-0.313321	-0.330879	-0.324344	-0.291690	-0.237853	-0.173339
-0.110056	-0.056383	-0.013809	0.023250	0.063860	0.115185	0.177929	0.244377
0.301044	0.334034	0.334879	0.304128	0.250963	0.189075	0.131086	0.084020
0.048283	0.020253	-0.003438	-0.022376	-0.031324	-0.022823	0.008438	0.061725
0.129020	0.197229	0.252817	0.286387	0.295884	0.286184	0.266233	0.245305
0.230403	0.225568	0.232592	0.252013	0.283731	0.326076	0.374253	0.419682
0.450983	0.457029	0.431205	0.374528	0.296415	0.212245	0.138345	0.086739
0.061660	0.058465	0.066487	0.073593	0.070327	0.052416	0.021088	-0.018923
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0.031312	0.013745	-0.006162	-0.026890	-0.043605	-0.050231	-0.041798	-0.016468
0.023758	0.073918	0.127560	0.178058	0.219456	0.246807	0.256670	0.247601
0.220647	0.179626	0.130247	0.078330	-0.020497	-0.020497	-0.069147	-0.121886
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0.078285	0.108272	0.125393	0.129424	0.123368	0.112517	0.102959	0.099588
0.104048	0.113637	0.122238	0.122696	0.110074	0.083833	0.048332	0.010848
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0.132225	0.109913	0.072415	0.020232	-0.042171	-0.106361	-0.161561	-0.197687
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0.113150	0.163841	0.213749	0.254516	0.277072	0.275739	0.251523	0.212812
0.173318	0.147616	0.145977	0.170957	0.216864	0.271881	0.322308	0.357008
0.370384	0.363126	0.340478	0.309473	0.276574	0.246220	0.220518	0.199957
0.184342	0.172840	0.163781	0.154314	0.140471	0.117894	0.083470	0.036727
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0.387404	0.383088	0.374681	0.365570	0.358720	0.356491	0.360206	0.369326
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0.270896	0.241794	0.214280	0.189250	0.168067	0.152076	0.141297	0.133174
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-0.189602	-0.175749	-0.156297	-0.134280	-0.112374	-0.092148	-0.073773	-0.056365
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0.251432	0.234220	0.196710	0.142222	0.080540	0.024590	-0.014214	-0.030496
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0.101383	0.095537	0.102371	0.122505	0.151413	0.181360	0.203784	0.211652
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Calculation GEO.DCPP.01.37 Rev. 1

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0.099261	0.121117	0.144458	0.172440	0.206478	0.245952	0.288307	0.329186
0.363031	0.383877	0.386667	0.368802	0.331527	0.280479	0.225146	0.176908
0.146116	0.138991	0.155654	0.189804	0.230581	0.265587	0.284611	0.282545
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0.132910	0.198004	0.251230	0.286907	0.305128	0.311398	0.314381	0.322463
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0.468093	0.427642	0.371922	0.304068	0.230016	0.157898	0.096300	0.051744
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0.094625	0.097233	0.104379	0.114659	0.125805	0.135312	0.141562	0.143965
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input file: hevert.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hevert.xls

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input file: hevert.ath

output file with header and footer: hevert.xls

Calculation GEO.DCPP.01.37 Rev. 1

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input file: hevert.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hevert.xls

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input file: hevert.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hevert.xls

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input file: hevert.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hevert.xls

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input file: hevert.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: hevert.xls

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input file: hevert.ath

Calculation GEO.DCPP.01.37 Rev. 1

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Calculation GEO.DCPP.01.37 Rev. 1

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0.000305	0.004143	0.008162	0.011892	0.014933	0.017027	0.018177	0.018599
0.018695	0.018923	0.019716	0.021301	0.023667	0.028581	0.029721	0.032749
0.035425	0.037582	0.039129	0.039904	0.039707	0.038308	0.035592	0.031654
0.026932	0.022109	0.017974	0.015167	0.013997	0.014293	0.015523	0.016976
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0.020486	0.024616	0.028610	0.031812	0.033640	0.033658	0.031694	0.027807
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0.002263	0.001998	0.001817	0.001689	0.001555	0.001352	0.001078	0.000795

input file: hevert.ath

output file with header and footer: hevert.xls

Calculation GEO.DCPP.01.37 Rev. 1

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0.003977	0.003695	0.003206	0.002583	0.001948	0.001423	0.001105	0.001041
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0.000013	0.000023	0.000031	0.000038	0.000043	0.000047	0.000049	0.000052
0.000053							

**CALCULATION PACKAGE
GEO.DCPP.01.37 REV. 1
SUPPORTING DOCUMENT**

**SPECTRAL COMPATIBLE
ACCELERATION TIME HISTORIES**

Long Term Seismic Program (LTSP)

Prepared by
Pacific Engineering and Analysis (2001)

input file: lthor1.ath

output file with header and footer: lthor1.xls

Calculation GEO.DCPP.01.37 Rev. 1

PG&E, LTSP SPECTRUM, HORIZONTAL 1

OUTPUT ACCELERATION TIME HISTORY (G/S)

NPTS= 9625, dt= .0050SEC

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0.001686	0.001215	0.000745	0.000449	0.000438	0.000672	0.001018	0.001320
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0.002508	0.003233	0.003721	0.003768	0.003298	0.002355	0.001074	-0.000341
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0.016562	0.022877	0.029138	0.034727	0.038813	0.040551	0.039516	0.035621
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0.017359	0.012172	0.006664	0.003187	0.003424	0.007761	0.014484	0.020523
0.023089	0.020919	0.014908	0.007380	0.000294	-0.005836	-0.011905	-0.019489
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0.057173	0.058104	0.061095	0.065364	0.070221	0.075384	0.080747	0.086471
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0.093368	0.121986	0.146176	0.162627	0.170167	0.168447	0.158067	0.141497
0.121737	0.100608	0.079940	0.061683	0.046544	0.034756	0.027368	0.025661
0.030678	0.043708	0.065080	0.092287	0.120640	0.144060	0.156710	0.154980

input file: lthor1.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: lthor1.xls

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input file: lthor1.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: lthor1.xls

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input file: lthor1.ath

output file with header and footer: lthor1.xls

Calculation GEO.DCPP.01.37 Rev. 1

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input file: lthor1.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: lthor1.xls

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0.291870	0.298850	0.311070	0.327960	0.350050	0.375771	0.404231	0.435901
0.467771	0.495201	0.512971	0.515471	0.504881	0.485061	0.456982	0.421072
0.376512	0.325372	0.273292	0.229882	0.206392	0.207262	0.229162	0.261883
0.291713	0.308343	0.309083	0.295763	0.271703	0.240583	0.203683	0.159043
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0.218309	0.241320	0.240140	0.211690	0.161100	0.098959	0.040328	0.001324
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0.058373	0.077127	0.082508	0.072829	0.057167	0.047877	0.053902	0.080795
0.128733	0.190033	0.251933	0.300264	0.324474	0.325414	0.308434	0.279474
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input file: lthor1.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: lthor1.xls

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input file: lthor1.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: lthor1.xls

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Calculation GEO.DCPP.01.37 Rev. 1

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0.008559	0.012169	0.016664	0.021875	0.027513	0.032209	0.033794	0.060502
0.020631	0.006192	-0.010568	-0.026668	-0.040038	-0.049968	-0.065520	

input file: lthor1.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: lthor1.xls

-0.063453	-0.066200	-0.068072	-0.067269	-0.061459	-0.049415	-0.031523	-0.009065
0.015613	0.038747	0.056986	0.068844	0.073633	0.071612	0.064719	0.055602
0.047337	0.043083	0.044822	0.052951	0.066087	0.080283	0.090412	0.093167
0.088536	0.078870	0.067784	0.058527	0.051832	0.046624	0.041685	0.036725
0.031995	0.027193	0.022060	0.016302	0.009728	0.003211	-0.001353	-0.001763
0.003238	0.012168	0.021306	0.026366	0.024612	0.016363	0.004257	-0.009001
-0.020686	-0.029120	-0.035368	-0.041644	-0.049879	-0.060947	-0.074963	-0.090386
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-0.056667	-0.049211	-0.039787	-0.026529	-0.009171	0.010988	0.031620	0.049719
0.062554	0.068406	0.066962	0.059363	0.048027	0.036242	0.026580	0.020127
0.017213	0.017356	0.019137	0.020773	0.021668	0.022670	0.024677	0.027650
0.030953	0.034353	0.037044	0.037853	0.036585	0.033567	0.030174	0.027438
0.024854	0.021783	0.017543	0.011254	0.002733	-0.006308	-0.013200	-0.015828
-0.013514	-0.007663	-0.000828	0.004429	0.006607	0.005877	0.003712	0.002579
0.004017	0.007294	0.010365	0.010787	0.006162	-0.004074	-0.018044	-0.032122
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0.062892	0.054739	0.042601	0.023564	0.018366	0.010705	0.006587	0.004985
0.005755	0.008832	0.013883	0.021056	0.030631	0.041764	0.053053	0.063039
0.069319	0.070566	0.066631	0.057765	0.046173	0.035870	0.030085	0.030419
0.036335	0.044782	0.051921	0.054853	0.052558	0.045658	0.036058	0.026246
0.017654	0.010459	0.004798	0.001119	-0.000431	-0.000443	0.000291	0.001582
0.003353	0.005020	0.006896	0.009306	0.011105	0.009777	0.003510	-0.007542
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0.032380	0.037105	0.040448	0.041060	0.038116	0.033409	0.029734	0.029272
0.033273	0.041020	0.049718	0.056119	0.057758	0.053075	0.041671	0.025163
0.006742	-0.010425	-0.023794	-0.030927	-0.030561	-0.023503	-0.011733	0.001959
0.014433	0.023842	0.030127	0.034561	0.039691	0.047769	0.059303	0.072873
0.085707	0.094675	0.097141	0.092622	0.082849	0.070615	0.058867	0.049528
0.043016	0.039295	0.038842	0.042183	0.049147	0.058233	0.067903	0.076533
0.081502	0.080786	0.074569	0.064704	0.053494	0.042511	0.033133	0.027333
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0.032333	0.045057	0.059881	0.073609	0.082414	0.083096	0.074651	0.058930
0.040462	0.024344	0.013754	0.008918	0.007162	0.004462	-0.002143	-0.012857
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0.008163	0.013505	0.016539	0.016487	0.012882	0.006556	-0.000841	-0.007479
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0.001487	-0.013596	-0.024560	-0.028770	-0.025650	-0.016571	-0.004327	0.008038
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0.002967	0.006673	0.014601	0.025798	0.038927	0.052436	0.064719	0.074270
0.080282	0.082151	0.079140	0.071647	0.061161	0.049602	0.039344	0.032597
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-0.036573	-0.021710	-0.005972	0.007343	0.015751	0.019165	0.019205	0.017218
0.014373	0.012274	0.012500	0.016349	0.023906	0.033946	0.044412	0.053236
0.058531	0.059065	0.055283	0.049338	0.044317	0.043050	0.047189	0.056433
0.068796	0.080756	0.088373	0.089037	0.082382	0.069647	0.053023	0.035146

input file: lthor1.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: lthor1.xls

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0.033790	0.016569	0.001204	-0.008052	-0.009489	-0.004255	0.004251	0.012530
0.017993	0.019331	0.017671	0.016157	0.017900	0.024381	0.035016	0.046893
0.055486	0.057286	0.051395	0.038501	0.021117	0.003564	-0.010243	-0.018315
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0.030042	0.036333	0.035700	0.029094	0.019709	0.011944	0.009602	0.013943
0.023860	0.036260	0.046941	0.052742	0.052602	0.047006	0.037454	0.026365
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0.024148	0.025372	0.027124	0.028736	0.028869	0.027347	0.024511	0.020507
0.015894	0.012118	0.010542	0.011109	0.012455	0.013015	0.011650	0.008636
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0.018601	0.012887	0.002278	-0.011043	-0.024131	-0.033734	-0.037809	-0.035736
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0.013466	0.012282	0.011036	0.008611	0.004156	-0.001962	-0.008126	-0.012523
-0.014179	-0.012620	-0.008129	-0.002166	0.002286	0.002605	-0.002019	-0.010573
-0.020076	-0.026873	-0.028100	-0.022657	-0.012215	-0.000601	0.008558	0.013408
0.013717	0.010740	0.006690	0.003345	0.001015	-0.000703	-0.002160	-0.003302
-0.003650	-0.003979	-0.005157	-0.006699	-0.008211	-0.009931	-0.011580	-0.012298
-0.011475	-0.008991	-0.005023	0.000073	0.005596	0.010089	0.011869	0.010138
0.005626	0.000146	-0.003892	-0.004408	-0.000424	0.007334	0.016768	0.025856
0.032802	0.036346	0.036972	0.036244	0.036103	0.038017	0.041201	0.042977
0.040248	0.030333	0.013171	-0.007370	-0.025515	-0.036033	-0.035956	-0.026054
-0.011245	0.001567	0.007360	0.004697	-0.004590	-0.015685	-0.022080	-0.019027
-0.005772	0.013354	0.030038	0.037797	0.032731	0.013917	-0.014011	-0.041745
-0.060095	-0.063840	-0.052760	-0.031099	-0.006651	0.011305	0.016191	0.006953
-0.011184	-0.029424	-0.040476	-0.039264	-0.024479	-0.001625	0.020139	0.032617

input file: lthor1.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: lthor1.xls

0.031341	0.017334	-0.004483	-0.026871	-0.041915	-0.044178	-0.033166	-0.013279
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0.032685	0.034596	0.035559	0.035983	0.036649	0.036818	0.035067	0.031176
0.025255	0.017478	0.009442	0.004593	0.006359	0.015460	0.030008	0.046519
0.060549	0.067828	0.066247	0.056718	0.043213	0.031550	0.025496	0.026786
0.035205	0.047077	0.056603	0.058946	0.051631	0.035828	0.016318	-0.001450
-0.013401	-0.016990	-0.013081	-0.006857	-0.004117	-0.007181	-0.015043	-0.025417
-0.035280	-0.041521	-0.041878	-0.036071	-0.026120	-0.014611	-0.003373	0.005524
0.009908	0.008299	0.000929	-0.009487	-0.018949	-0.024945	-0.027074	-0.026129
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0.010111	0.010778	0.008118	0.004173	0.001308	0.001385	0.004426	0.008814
0.012746	0.015370	0.016475	0.016208	0.014723	0.011835	0.008220	0.004887
0.001455	-0.002882	-0.007733	-0.012091	-0.015520	-0.017900	-0.019782	-0.022217
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0.003435	0.005273	0.002574	-0.002947	-0.008482	-0.010891	-0.009451	-0.006080
-0.003187	-0.002577	-0.005139	-0.009655	-0.013263	-0.013925	-0.010887	-0.003924
0.006309	0.017789	0.028120	0.035470	0.038548	0.036762	0.030946	0.023200
0.015776	0.010700	0.008948	0.009817	0.011933	0.013804	0.013587	0.010055
0.003134	-0.006485	-0.016837	-0.025521	-0.030488	-0.030183	-0.025023	-0.017542
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-0.048277	-0.054247	-0.057676	-0.058073	-0.056607	-0.054691	-0.054085	-0.056255
-0.060967	-0.066136	-0.068673	-0.065997	-0.057392	-0.043866	-0.028092	-0.013454
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0.009458	0.011957	0.017753	0.026153	0.035121	0.042219	0.045492	0.043916
0.037679	0.029011	0.021241	0.016811	0.016018	0.017652	0.019829	0.020114
0.016429	0.008765	-0.001104	-0.010983	-0.018711	-0.022263	-0.020180	-0.012482
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0.035614	0.027903	0.021225	0.017029	0.015465	0.014871	0.013106	0.008396
0.000290	-0.010101	-0.019842	-0.025481	-0.025080	-0.018109	-0.005549	0.009355
0.022172	0.029743	0.030596	0.024392	0.012642	-0.000942	-0.012376	-0.019526
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-0.018542	-0.013726	-0.007368	0.000221	0.008358	0.016146	0.022791	0.027522
0.029675	0.029283	0.026291	0.020264	0.011594	0.001500	-0.008936	-0.018537
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0.006334	0.018567	0.034411	0.051857	0.067677	0.079080	0.084160	0.082094
0.073543	0.060706	0.046443	0.033285	0.022934	0.016074	0.012299	0.010786
0.010485	0.010310	0.010186	0.010261	0.010539	0.011788	0.014514	0.018279
0.022173	0.025028	0.025575	0.022955	0.016902	0.007404	-0.005000	-0.018343
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0.022104	0.021252	0.016368	0.009687	0.004385	0.003091	0.006637	0.013880
0.022216	0.028541	0.030680	0.028660	0.024053	0.018631	0.014241	0.011909
0.011338	0.012413	0.015149	0.018970	0.023391	0.028297	0.033066	0.036452
0.037640	0.036329	0.031949	0.024741	0.016297	0.007720	-0.000254	-0.006812
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0.017346	0.015533	0.010898	0.006489	0.004385	0.005857	0.010816	0.017432
0.023487	0.027704	0.030215	0.032043	0.034656	0.039397	0.046355	0.054296
0.061575	0.066903	0.069479	0.069480	0.067535	0.064544	0.061527	0.058932
0.056546	0.053762	0.050400	0.046692	0.042467	0.036979	0.029923	0.021768
0.012383	0.001524	-0.010205	-0.021786	-0.031681	-0.037932	-0.038853	-0.034354
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0.030460	0.033285	0.033037	0.031060	0.029284	0.028243	0.027638	0.027655
0.028409	0.029384	0.030699	0.032480	0.034054	0.034407	0.033175	0.030873
0.029138	0.030168	0.034858	0.042605	0.051795	0.059357	0.062516	0.060845
0.055128	0.046870	0.038694	0.032188	0.027166	0.023255	0.020131	0.016937
0.012680	0.007227	0.001579	-0.003289	-0.006934	-0.009363	-0.011026	-0.012581
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-0.000764	-0.010874	-0.014755	-0.012404	-0.005243	0.003690	0.010636	0.013745
0.013052	0.009633	0.005310	0.002020	0.001316	0.003835	0.008505	0.012996
0.015537	0.014957	0.010273	0.001928	-0.008281	-0.018206	-0.025042	-0.026396
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0.022139	0.013858	0.002920	-0.006310	-0.010476	-0.008835	-0.003187	0.003803
0.009169	0.009970	0.005528	-0.001846	-0.008576	-0.011181	-0.007023	0.004597

input file: lthor1.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: lthor1.xls

0.021731	0.040802	0.058157	0.071160	0.078892	0.081672	0.079354	0.071948
0.060956	0.047988	0.034154	0.021417	0.011884	0.006154	0.003520	0.002636
0.001786	-0.000252	-0.003271	-0.006271	-0.007865	-0.006531	-0.001956	0.004171
0.009062	0.010340	0.006532	-0.002597	-0.015289	-0.028189	-0.038361	-0.044479
-0.046032	-0.043537	-0.038954	-0.034273	-0.030803	-0.029435	-0.030288	-0.032183
-0.033273	-0.031959	-0.027323	-0.019210	-0.008543	0.003156	0.014526	0.024200
0.031355	0.036099	0.038483	0.038692	0.037434	0.034748	0.030174	0.024164
0.017659	0.011623	0.007412	0.006174	0.007470	0.010179	0.013403	0.015917
0.017200	0.018488	0.020782	0.023525	0.026006	0.027174	0.025429	0.020217
0.012166	0.001804	-0.009988	-0.021678	-0.032193	-0.040817	-0.046299	-0.047557
-0.044534	-0.037832	-0.028625	-0.018462	-0.008916	-0.001663	0.002145	0.002688
0.001154	-0.001138	-0.002129	0.000134	0.005626	0.012981	0.020593	0.026506
0.029598	0.030621	0.030369	0.029654	0.029759	0.030530	0.030458	0.028497
0.024312	0.018254	0.011545	0.005469	0.001335	0.000665	0.003983	0.009839
0.015770	0.020054	0.021759	0.021222	0.020388	0.020788	0.022615	0.025109
0.026678	0.024738	0.017152	0.004333	-0.010839	-0.025061	-0.035583	-0.040525
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0.017194	0.023607	0.030239	0.036647	0.042233	0.045768	0.046516	0.045119
0.043007	0.041542	0.041872	0.043770	0.045705	0.046116	0.043691	0.037733
0.029376	0.021510	0.015935	0.012628	0.011218	0.010672	0.009558	0.006937
0.002353	-0.004046	-0.011049	-0.016997	-0.020487	-0.020175	-0.015479	-0.007154
0.002724	0.011364	0.016284	0.016448	0.012747	0.007103	0.001721	-0.001580
-0.002213	-0.000501	0.002553	0.005523	0.007470	0.008393	0.008478	0.008346
0.009214	0.011721	0.015849	0.021035	0.026117	0.029596	0.030011	0.026744
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0.008149	0.014395	0.018108	0.017873	0.013735	0.007617	0.001893	-0.001878
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0.022420	0.027507	0.032234	0.035549	0.036900	0.036510	0.035618	0.035208
0.035292	0.035430	0.034875	0.032505	0.028113	0.023233	0.019933	0.019185
0.020698	0.023280	0.024798	0.022985	0.017230	0.008916	-0.000584	-0.010249
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-0.002881	-0.002891	-0.002600	-0.001517	0.000060	0.001589	0.002183	0.001133
-0.001172	-0.003639	-0.005060	-0.004243	-0.000603	0.005104	0.011115	0.016038
0.018567	0.017544	0.013368	0.007650	0.002624	0.000278	0.000963	0.003727
0.006870	0.008507	0.007421	0.003706	-0.000655	-0.002736	-0.000644	0.005709
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0.015171	0.013642	0.010434	0.006657	0.002444	-0.002137	-0.007005	-0.012469
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-0.010159	-0.007762	-0.005086	-0.001557	0.002487	0.006131	0.008330	0.008303
0.006150	0.002919	0.000056	-0.001326	-0.001198	-0.000210	0.000998	0.001760
0.001737	0.001427	0.001933	0.004086	0.008265	0.014387	0.021903	0.030160
0.038208	0.044687	0.048400	0.048644	0.044879	0.037291	0.027044	0.015961
0.005971	-0.001849	-0.007108	-0.009850	-0.010746	-0.010371	-0.008968	-0.006833
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0.025131	0.026372	0.026615	0.026228	0.025368	0.024256	0.023406	0.022999
0.022993	0.023201	0.022977	0.021552	0.018945	0.015801	0.012991	0.011494
0.011803	0.014032	0.017609	0.021481	0.024655	0.026213	0.025870	0.024139
0.021777	0.019612	0.018510	0.018574	0.019069	0.019014	0.017230	0.013165
0.007281	0.000678	-0.005405	-0.009922	-0.012329	-0.012431	-0.010471	-0.007501
-0.004709	-0.003077	-0.003396	-0.005486	-0.008608	-0.012302	-0.015679	-0.017556
-0.017657	-0.016956	-0.016673	-0.017655	-0.020621	-0.025467	-0.030837	-0.034845
-0.036342	-0.034928	-0.030439	-0.023935	-0.017619	-0.013131	-0.010974	-0.011558
-0.014852	-0.019800	-0.025105	-0.029930	-0.033535	-0.034976	-0.033817	-0.030407
-0.025339	-0.019324	-0.013563	-0.009372	-0.007336	-0.006980	-0.006814	-0.004995
-0.000301	0.007475	0.017345	0.027112	0.034529	0.037829	0.036223	0.030665
0.023027	0.014957	0.008285	0.004704	0.004552	0.006930	0.010375	0.013282
0.014472	0.014103	0.013389	0.013353	0.014972	0.019285	0.026216	0.034480
0.042292	0.047741	0.049125	0.045479	0.037451	0.027047	0.002977	0.002859
0.004333	0.002887	0.003173	0.003842	0.004052	0.003575	0.005819	0.003699
0.003338	0.004253	0.005466	0.006642	0.007288	0.007044	-0.042527	-0.045624
0.000614	-0.003682	-0.009623	-0.017255	-0.026153	-0.035307	-0.022680	-0.022154
-0.043728	-0.038099	-0.031456	-0.025957	-0.022838	-0.022237	-0.009639	-0.018053
-0.019436	-0.014389	-0.008301	-0.003473	-0.001707	-0.003813	-0.014304	-0.009140
-0.026921	-0.033612	-0.036218	-0.034415	-0.029107	-0.021691	-0.000018	0.009266
-0.007293	-0.008342	-0.010695	-0.012607	-0.012196	-0.007897	0.014671	0.009010
0.017602	0.023545	0.026446	0.026240	0.023692	0.019719	-0.010322	-0.007096
0.003018	-0.003386	-0.009183	-0.012886	-0.014096	-0.013040	0.001141	0.004503
-0.004577	-0.003253	-0.002858	-0.003051	-0.002988	-0.001593	-0.006374	-0.002988
0.007425	0.008390	0.006863	0.003476	-0.001075	-0.005282		

input file: lthor1.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: lthor1.xls

0.003952	0.012774	0.021454	0.027389	0.028977	0.027008	0.023186	0.019299
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0.006870	0.001129	-0.002246	-0.002589	0.000131	0.005045	0.010285	0.013938
0.014858	0.012836	0.008269	0.002110	-0.004069	-0.008350	-0.009241	-0.006177
0.000074	0.007347	0.012762	0.013784	0.009506	0.000529	-0.011338	-0.023154
-0.032188	-0.037077	-0.037467	-0.033940	-0.028421	-0.023263	-0.020077	-0.019336
-0.020627	-0.022531	-0.022733	-0.018846	-0.009989	0.002401	0.015398	0.025769
0.030778	0.029135	0.021576	0.010553	-0.000724	-0.009051	-0.012382	-0.010724
-0.005079	0.002778	0.010194	0.014737	0.015123	0.012123	0.008142	0.005789
0.006721	0.011277	0.018203	0.024837	0.028426	0.027518	0.022089	0.013152
0.002957	-0.006011	-0.012066	-0.014412	-0.013448	-0.010895	-0.008671	-0.007775
-0.008550	-0.011247	-0.015122	-0.018521	-0.020170	-0.019951	-0.018537	-0.016703
-0.015222	-0.014854	-0.016310	-0.019290	-0.022375	-0.024588	-0.025805	-0.026272
-0.026601	-0.027407	-0.028853	-0.030410	-0.031333	-0.030968	-0.028537	-0.024097
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0.000124	0.000259	0.001638	0.003714	0.005642	0.006608	0.006267	0.005121
0.004195	0.004460	0.006212	0.009594	0.014394	0.019339	0.022943	0.024258
0.023004	0.019595	0.015259	0.011527	0.009986	0.011986	0.017608	0.025214
0.032228	0.037176	0.039184	0.038359	0.035967	0.034101	0.034640	0.037890
0.042703	0.047256	0.049642	0.048360	0.042606	0.033243	0.022593	0.013027
0.006171	0.002670	0.002162	0.003411	0.004698	0.004440	0.002442	-0.000048
-0.001748	-0.002299	-0.002080	-0.001395	-0.000453	-0.000103	-0.001167	-0.003280
-0.005766	-0.008439	-0.011104	-0.013326	-0.014482	-0.014553	-0.014303	-0.014694
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0.010420	0.016163	0.022087	0.026538	0.027952	0.025922	0.020922	0.013936
0.006671	0.001274	-0.000736	0.000880	0.005292	0.010784	0.015177	0.016823
0.015418	0.011721	0.006992	0.002966	0.001219	0.002238	0.005729	0.010849
0.015927	0.018551	0.016626	0.009844	-0.000423	-0.012171	-0.022791	-0.029980
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0.015991	0.021297	0.023801	0.023961	0.022580	0.020456	0.018609	0.017997
0.017741	0.016082	0.012732	0.008330	0.003424	-0.001377	-0.005962	-0.010666
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0.019525	0.018398	0.015486	0.012454	0.011077	0.012020	0.015045	0.019439
0.023894	0.027445	0.029697	0.030363	0.029449	0.027425	0.025279	0.023908
0.023673	0.024686	0.026389	0.027427	0.026603	0.023707	0.019327	0.014771
0.011537	0.010481	0.011865	0.015109	0.018588	0.020198	0.018701	0.013939
0.006499	-0.002277	-0.010556	-0.016494	-0.018928	-0.017856	-0.014341	-0.009955
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0.007906	0.007090	0.002848	-0.004764	-0.014454	-0.024044	-0.031252	-0.034439
-0.033002	-0.027097	-0.018015	-0.008406	-0.000442	0.004765	0.006952	0.006661
0.004815	0.002245	-0.000296	-0.002425	-0.004603	-0.007185	-0.009889	-0.012729
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-0.031111	-0.027194	-0.023392	-0.020445	-0.018407	-0.017237	-0.016513	-0.015414
-0.013295	-0.009838	-0.005094	0.000187	0.004675	0.007162	0.007146	0.004402
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0.011892	0.016653	0.018339	0.017516	0.015480	0.013524	0.012784	0.013917
0.016459	0.019028	0.020238	0.019143	0.015356	0.009513	0.003382	-0.000992
-0.002403	-0.000897	0.002363	0.005821	0.007866	0.007045	0.003152	-0.002658
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-0.002148	0.002947	0.007841	0.011551	0.013213	0.012305	0.009200	0.004840
0.000420	-0.003097	-0.005024	-0.004731	-0.002574	0.000181	0.002421	0.003801
0.004308	0.004520	0.005232	0.006803	0.008866	0.010634	0.011273	0.009775
0.005882	0.000367	-0.005738	-0.011261	-0.014892	-0.015927	-0.014585	-0.011772
-0.008672	-0.006016	-0.004297	-0.003920	-0.004273	-0.004200	-0.003439	-0.002673
-0.002628	-0.003559	-0.005271	-0.007420	-0.009265	-0.009580	-0.007423	-0.003264
0.001353	0.005068	0.006993	0.006543	0.004242	0.001931	0.001245	0.002622
0.005347	0.008165	0.009827	0.009510	0.007470	0.004870	0.002960	0.002856
0.004897	0.008444	0.012378	0.015354	0.016231	0.014392	0.010059	0.004055
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0.026942	0.025696	0.023121	0.020334	0.018544	0.018358	0.019277	0.020219
0.020254	0.018921	0.016349	0.013055	0.009798	0.007409	0.006183	0.005836
0.006070	0.006980	0.008572	0.010122	0.011101	0.011412	0.010684	0.008666
0.005426	0.001047	-0.003916	-0.008732	-0.013176	-0.016726	-0.018537	-0.018753
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0.008038	0.009728	0.009888	0.008622	0.006729	0.005170	0.004326	0.004611
0.006261	0.008718	0.011067	0.012606	0.013065	0.012437	0.010741	0.008390
0.006308	0.005228	0.005263	0.006018	0.007038	0.007945	0.008172	0.007221
0.005253	0.002996	0.001149	0.000097	-0.000054	0.000694	0.002297	0.004429
0.006393	0.007682	0.008245	0.008109	0.007225	0.005599	0.003824	0.002535
0.001748	0.001391	0.001571	0.002255	0.002991	0.003460	0.003905	0.004760
0.006167	0.007887	0.009675	0.011250	0.012100	0.011898	0.010634	0.008467
0.005671	0.002892	0.000634	-0.001259	-0.003091	-0.004870	-0.006582	-0.008391
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input file: lthor1.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: lthor1.xls

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-0.003360	-0.002909	-0.001993	-0.000777	0.000452	0.001412	0.001985	0.002265
0.002512	0.002927	0.003510	0.004185	0.004807	0.005129	0.004967	0.004342
0.003422	0.002390	0.001459	0.000840	0.000602	0.000595	0.000606	0.000505
0.000243	-0.000124	-0.000412	-0.000401	-0.000016	0.000610	0.001264	0.001686
0.001568	0.000828	-0.000341	-0.001663	-0.002877	-0.003763	-0.004237	-0.004443
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0.000431	0.001084	0.002038	0.003321	0.004836	0.006435	0.007965	0.009196
0.009907	0.010097	0.009909	0.009453	0.008878	0.008410	0.008140	0.007947
0.007698	0.007307	0.006666	0.005747	0.004645	0.003453	0.002269	0.001274
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-0.002675	-0.002676	-0.002543	-0.002270	-0.001845	-0.001294	-0.000710	-0.000178
0.000282	0.000711	0.001131	0.001548	0.001964	0.002356	0.002735	0.003127
0.003515	0.003851	0.004093	0.004188	0.004089	0.003834	0.003543	0.003331
0.003226	0.003178	0.003142	0.003108	0.003087	0.003085	0.003121	0.003200
0.003258	0.003175	0.002837	0.002199	0.001313	0.000323	-0.000623	-0.001408
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0.000296	0.000268	0.000185	0.000102	0.000051	0.000046	0.000082	0.000137
0.000191	0.000251	0.000333	0.000441	0.000569	0.000750	0.001029	0.001390
0.001771	0.002117	0.002381	0.002538	0.002616	0.002691	0.002831	0.003054
0.003307	0.003516	0.003621	0.003582	0.003403	0.003130	0.002826	0.002524
0.002213	0.001877	0.001533	0.001207	0.000916	0.000682	0.000511	0.000409
0.000367	0.000376	0.000426	0.000516	0.000637	0.000758	0.000845	0.000870
0.000790	0.000583	0.000280	-0.000068	-0.000401	-0.000656	-0.000803	-0.000838
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0.000571	0.000869	0.001166	0.001441	0.001677	0.001848	0.001957	0.002041
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0.001990	0.001940	0.001867	0.001781	0.001697	0.001625	0.001569	0.001530
0.001497	0.001456	0.001393	0.001299	0.001168	0.001010	0.000849	0.000716
0.000636	0.000623	0.000671	0.000761	0.000865	0.000953	0.001002	0.001007
0.000974	0.000918	0.000861	0.000824	0.000815	0.000826	0.000842	0.000848
0.000839	0.000815	0.000788	0.000764	0.000751	0.000753	0.000768	0.000792
0.000828	0.000876	0.000927	0.000967	0.000986	0.000979	0.000950	0.000910
0.000875	0.000860	0.000873	0.000907	0.000949	0.000985	0.001006	0.001008
0.000996	0.000981	0.000972	0.000976	0.000993	0.001017	0.001038	0.001050
0.001053	0.001049	0.001042	0.001040	0.001045	0.001058	0.001073	0.001088
0.001100	0.001108	0.001113	0.001114	0.001113	0.001112	0.001112	0.001112
0.001111	0.001109	0.001105	0.001098	0.001089	0.001079	0.001071	0.001065
0.001060	0.001057	0.001056	0.001056	0.001057	0.001058	0.001059	0.001060
0.001061	0.001062	0.001064	0.001065	0.001067	0.001068	0.001070	0.001073
0.001076							

input file: lthor2.ath

output file with header and footer: lthor2.xls

Calculation GEO.DCPP.01.37 Rev. 1

PG&E, LTSP SPECTRUM, HORIZONTAL 2
OUTPUT ACCELERATION TIME HISTORY (G'S)

NPTS= 9625, dt= .0050SEC

-0.000127	-0.000128	-0.000131	-0.000135	-0.000140	-0.000143	-0.000145	-0.000146
-0.000140	-0.000128	-0.000111	-0.000094	-0.000085	-0.000092	-0.000127	-0.000175
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0.000121	0.000345	0.000445	0.000495	0.000626	0.000852	0.001067	0.001230
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input file: lthor2.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: lthor2.xls

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-0.075487	-0.089424	-0.105185	-0.124665	-0.130185	-0.114785	-0.100895	-0.105265
-0.102925	-0.084293	-0.075777	-0.073214	-0.059289	-0.044383	-0.030245	-0.014998
-0.017594	-0.037829	-0.061837	-0.081099	-0.092623	-0.101155	-0.105365	-0.105335

input file: lthor2.ath

output file with header and footer: lthor2.xls

Calculation GEO.DCPP.01.37 Rev. 1

-0.116255	-0.148085	-0.181065	-0.198095	-0.196785	-0.175805	-0.147665	-0.120725
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0.265366	0.291835	0.309075	0.329006	0.339175	0.327685	0.301986	0.262515
0.226486	0.207365	0.205376	0.205856	0.204416	0.214986	0.219986	0.207176
0.194036	0.178846	0.151396	0.124426	0.097443	0.050553	-0.011812	-0.063636
-0.103874	-0.143274	-0.171074	-0.181214	-0.182834	-0.194484	-0.220464	-0.241354
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-0.404654	-0.390734	-0.370964	-0.362264	-0.352504	-0.324864	-0.284794	-0.232124
-0.176304	-0.123724	-0.076215	-0.044594	-0.033343	-0.033415	-0.042144	-0.076435
-0.132574	-0.187924	-0.230834	-0.271574	-0.299124	-0.303104	-0.297404	-0.291584
-0.280024	-0.266624	-0.252634	-0.218174	-0.167694	-0.131704	-0.105564	-0.068916
-0.021819	0.018772	0.051903	0.092040	0.136096	0.160106	0.158986	0.151616
0.169936	0.179446	0.161216	0.187756	0.234036	0.263756	0.289006	0.302176
0.298056	0.282956	0.257676	0.229086	0.212986	0.207076	0.203456	0.198256
0.187276	0.156706	0.111406	0.087337	0.081410	0.075669	0.080702	0.097942
0.104276	0.084206	0.054748	0.049159	0.077072	0.102046	0.112416	0.123946
0.138546	0.147097	0.158486	0.175076	0.191277	0.218687	0.238317	0.225206
0.208997	0.219807	0.250046	0.266297	0.274757	0.294257	0.293497	0.255507
0.208497	0.175817	0.151317	0.118957	0.076144	0.038473	-0.002907	-0.047935
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-0.204963	-0.217533	-0.211133	-0.197703	-0.186663	-0.172313	-0.140133	-0.122823
-0.149303	-0.146643	-0.103133	-0.075263	-0.059964	-0.008344	0.069632	0.103997
0.117448	0.179088	0.238457	0.243408	0.229137	0.220738	0.213637	0.199007
0.188767	0.203867	0.222018	0.236088	0.240328	0.211578	0.174638	0.177108
0.180498	0.144888	0.133788	0.141778	0.098306	0.028848	-0.009449	-0.020771
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-0.169302	-0.195202	-0.232962	-0.237522	-0.231152	-0.253622	-0.272002	-0.256652
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0.207758	0.195788	0.185788	0.187488	0.188718	0.179258	0.155378	0.122558
0.079708	0.034132	0.013039	0.018714	0.038796	0.059398	0.093280	0.146708
0.185498	0.185288	0.197298	0.225828	0.206168	0.180168	0.181308	0.191228
0.211218	0.230608	0.247458	0.244028	0.207918	0.194938	0.218578	0.248368
0.272918	0.290758	0.284058	0.281068	0.296338	0.267818	0.206008	0.190108
0.209598	0.202998	0.162098	0.145538	0.160198	0.149678	0.112609	0.082421
0.060874	0.035657	0.013455	0.011622	0.025830	0.026874	0.005155	-0.021789
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0.162179	0.202479	0.236089	0.200829	0.143959	0.101029	0.034536	0.050993
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0.012327	0.006422	-0.041127	-0.143701	-0.237111	-0.267281	-0.256791	-0.284451
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0.342070	0.299830	0.267100	0.302139	0.368520	0.380610	0.347810	0.293250
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0.253280	0.175730	0.094476	0.088488	0.137400	0.173900	0.194900	0.184290
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0.121120	0.129410	0.141020	0.114840	0.101220	0.140200	0.197481	0.248091
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0.101491	0.137281	0.185631	0.265991	0.355921	0.435211	0.519371	0.606151
0.659931	0.682531	0.695671	0.690631	0.671621	0.666871	0.654611	0.626201
0.646521	0.684061	0.681341	0.635631	0.547961	0.433781	0.315261	0.214921
0.162521	0.157041	0.158281	0.155391	0.152302	0.146092	0.152351	0.162152
0.155272	0.159491	0.195461	0.209662	0.182972	0.115332	0.012130	-0.148528
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0.145312	0.143272	0.093284	0.001827	-0.077575	-0.157478	-0.257698	-0.341428

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Calculation GEO.DCPP.01.37 Rev. 1

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-0.426637	-0.401357	-0.362767	-0.310047	-0.240597	-0.161837	-0.083827	-0.019069
0.027269	0.058718	0.087905	0.123513	0.167323	0.212993	0.237403	0.234913
0.191383	0.122773	0.069174	0.041254	0.030236	0.017415	-0.009198	-0.040142
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0.201713	0.192813	0.173293	0.177203	0.214853	0.265403	0.305323	0.325543
0.345373	0.369093	0.360883	0.329713	0.314363	0.299373	0.274513	0.261793
0.243794	0.203243	0.153554	0.111743	0.084089	0.065279	0.080295	0.148124
0.201504	0.234244	0.263294	0.281234	0.315104	0.357214	0.371944	0.371144
0.350464	0.275494	0.180384	0.109964	0.064148	0.033840	0.014076	0.000517
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0.338004	0.373264	0.352174	0.313014	0.289164	0.257234	0.209884	0.163124
0.154884	0.184684	0.203804	0.206814	0.228654	0.263514	0.281164	0.267454
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0.236194	0.143344	-0.016083	-0.131916	-0.210676	-0.291086	-0.356386	-0.411186
-0.456306	-0.508646	-0.576626	-0.601896	-0.566726	-0.521146	-0.474426	-0.429036
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0.103096	0.053883	0.041907	0.043083	0.052248	0.059479	0.057600	0.056710
0.075272	0.141966	0.223176	0.288676	0.330526	0.343786	0.355496	0.380726
0.416926	0.434846	0.408396	0.360826	0.319626	0.276966	0.244486	0.221126
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0.213667	0.281337	0.322547	0.308757	0.320297	0.348947	0.344407	0.311377
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0.171827	0.185177	0.195367	0.177747	0.164597	0.221137	0.303367	0.341388
0.321968	0.270388	0.212748	0.139577	0.049786	-0.022541	-0.079309	-0.136082
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-0.305592	-0.279422	-0.237862	-0.168252	-0.085524	-0.006093	0.052156	0.101798
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0.242888	0.217478	0.180838	0.148818	0.142028	0.167718	0.206298	0.243478
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0.192028	0.204028	0.190958	0.142278	0.085488	0.070206	0.050211	-0.001179
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0.246289	0.289929	0.339259	0.395419	0.457799	0.532819	0.623209	0.698509
0.747919	0.788529	0.819979	0.826959	0.822409	0.812729	0.759089	0.678709
0.567089	0.396319	0.260879	0.182939	0.136989	0.105969	0.079481	0.048149
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0.130831	0.144631	0.187221	0.242491	0.303181	0.356971	0.392151	0.403041
0.381931	0.352501	0.360801	0.390511	0.405681	0.404481	0.368331	0.279561
0.180321	0.111971	0.068778	0.060099	0.113571	0.189911	0.250561	0.311021

input file: lthor2.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: lthor2.xls

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input file: lthor2.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: lthor2.xls

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0.131062	0.136242	0.106522	0.062873	0.014394	-0.041595	-0.073363	-0.091998
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input file: lthor2.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: lthor2.xls

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input file: lthor2.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: lthor2.xls

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0.087099	0.102187	0.103147	0.102867	0.106177	0.112427	0.120727	0.128537
0.132487	0.135287	0.144507	0.151947	0.153497	0.160837	0.166147	0.159007
0.149267	0.143817	0.129927	0.110427	0.098541	0.085279	0.060474	0.036871
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0.053039	0.039086	0.035093	0.037324	0.050602	0.076119	0.101786	0.123346
0.145506	0.160796	0.168456	0.170636	0.171386	0.163986	0.145966	0.126546
0.120626	0.119706	0.108766	0.099629	0.093427	0.081927	0.071723	0.069638
0.067851	0.063869	0.057110	0.049055	0.047628	0.047770	0.046379	0.049245

input file: lthor2.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: lthor2.xls

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input file: lthor2.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: lthor2.xls

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input file: lthor2.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: lthor2.xls

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input file: lthor2.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: lthor2.xls

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input file: lthor2.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: lthor2.xls

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-0.000349	-0.000628	0.000051	0.001857	0.002842	0.001660	-0.001033	-0.004136

input file: lthor2.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: lthor2.xls

-0.006960	-0.009337	-0.010110	-0.008573	-0.007025	-0.007555	-0.009324	-0.010750
-0.012225	-0.014196	-0.014717	-0.014552	-0.014362	-0.013251	-0.011377	-0.009338
-0.007349	-0.005189	-0.003707	-0.003405	-0.003530	-0.003363	-0.003995	-0.005096
-0.004395	-0.002041	-0.000638	-0.001079	-0.002310	-0.003492	-0.003775	-0.003550
-0.003230	-0.002429	-0.001328	-0.001494	-0.002788	-0.003857	-0.005680	-0.007907
-0.008221	-0.006788	-0.005681	-0.005021	-0.003627	-0.002527	-0.002791	-0.003948
-0.005665	-0.007021	-0.007662	-0.007733	-0.006770	-0.005009	-0.002941	-0.001317
-0.000265	-0.000664	-0.001787	-0.003104	-0.004036	-0.004866	-0.006200	-0.008146
0.009939	0.010649	0.009950	0.007344	0.004344	0.002280	0.000737	-0.000057
0.000865	0.002401	0.002390	0.001946	0.002708	0.003315	0.003413	0.004774
0.007218	0.008656	0.009285	0.010520	0.011222	0.011048	0.010828	0.010093
0.008807	0.008324	0.008910	0.010518	0.012427	0.013489	0.013922	0.013690
0.012566	0.011368	0.010738	0.010053	0.009146	0.008721	0.008083	0.006716
0.005799	0.005537	0.005193	0.004671	0.004260	0.004062	0.003751	0.003784
0.004588	0.005776	0.006172	0.005307	0.004327	0.002825	0.001415	0.000602
-0.000059	-0.000546	-0.000484	0.000056	0.000166	0.000036	0.000335	0.000358
-0.000278	-0.000776	-0.000735	-0.001070	-0.001908	-0.002734	-0.003539	-0.004320
-0.000503	-0.005586	-0.005802	-0.005302	-0.004313	-0.003592	-0.002980	-0.002672
-0.002565	-0.002622	-0.002930	-0.003619	-0.004247	-0.004555	-0.004963	-0.005154
-0.005003	-0.005324	-0.005930	-0.006405	-0.007068	-0.007714	-0.007994	-0.007803
-0.007063	-0.006217	-0.005789	-0.005636	-0.005453	-0.005430	-0.005334	-0.004912
-0.004342	-0.003806	-0.003179	-0.002718	-0.002455	-0.001900	-0.001183	-0.000733
-0.000467	-0.000138	0.000653	0.000696	0.000582	0.000251	-0.000467	-0.001266
-0.001730	-0.001623	-0.001083	-0.000212	0.000839	0.001531	0.001624	0.001476
0.001478	0.001343	0.000960	0.000697	0.000593	0.000335	-0.000167	-0.000388
-0.000230	0.000025	0.000389	0.000555	0.000440	0.000060	-0.000348	-0.000293
-0.000055	-0.000003	0.000049	0.000213	0.000131	-0.000125	-0.000034	0.000247
0.000408	0.000547	0.000520	0.000515	0.000832	0.001243	0.001646	0.002037
0.002436	0.002592	0.002518	0.002588	0.002940	0.003194	0.003126	0.003050
0.003061	0.002927	0.002824	0.002902	0.002949	0.003013	0.003063	0.002959
0.002733	0.002538	0.002448	0.002364	0.002403	0.002591	0.002753	0.002785
0.002765	0.002855	0.002901	0.002723	0.002533	0.002594	0.002651	0.002560
0.002413	0.002338	0.002313	0.002264	0.002277	0.002371	0.002420	0.002268
0.002152	0.002192	0.002252	0.002262	0.002225	0.002113	0.001887	0.001567
0.001307	0.001211	0.001184	0.001107	0.001048	0.000937	0.000804	0.000691
0.000667	0.000844	0.001051	0.001098	0.001023	0.000910	0.000690	0.000395
0.000159	-0.000041	-0.000176	-0.000292	-0.000407	-0.000394	-0.000289	-0.000147
0.000033	0.000164	0.000184	0.000199	0.000216	0.000249	0.000353	0.000406
0.000409	0.000427	0.000361	0.000203	0.000118	0.000122	0.000137	0.000139
0.000153	0.000202	0.000223	0.000243	0.000327	0.000423	0.000447	0.000442
0.000470	0.000535	0.000616	0.000698	0.000787	0.000850	0.000862	0.000846
0.000824	0.000811	0.000800	0.000804	0.000826	0.000813	0.000770	0.000720
0.000679	0.000666	0.000669	0.000672	0.000686	0.000710	0.000734	0.000765
0.000811	0.000854	0.000882	0.000903	0.000913	0.000906	0.000902	0.000917
0.000938	0.000942	0.000920	0.000893	0.000880	0.000865	0.000855	0.000868
0.000885	0.000881	0.000870	0.000869	0.000869	0.000866	0.000866	0.000871
0.000877	0.000888	0.000905	0.000921	0.000936	0.000947	0.000957	0.000966
0.000975	0.000984	0.000991	0.000997	0.001001	0.001004	0.001006	0.001009
0.001011	0.001014	0.001015	0.001017	0.001017	0.001016	0.001015	0.001012
0.001009							

input file: ltvert.ath

output file with header and footer: ltvert.xls

Calculation GEO.DCPP.01.37 Rev. 1

PG&E, LTSP SPECTRUM, VERTICAL
OUTPUT ACCELERATION TIME HISTORY (G'S)

NPTS= 9625, dt= 0050SEC

0.000155	0.000156	0.000158	0.000161	0.000166	0.000175	0.000186	0.000197
0.000204	0.000206	0.000205	0.000203	0.000196	0.000176	0.000138	0.000090
0.000055	0.000050	0.000079	0.000120	0.000157	0.000174	0.000191	0.000230
0.000278	0.000288	0.000220	0.000090	-0.000040	-0.000106	-0.000078	-0.000005
0.000050	0.000100	0.000215	0.000434	0.000724	0.000988	0.001139	0.001182
0.001198	0.001251	0.001305	0.001273	0.001133	0.001023	0.001179	0.001714
0.002456	0.003010	0.003036	0.002554	0.001946	0.001567	0.001403	0.001114
0.000343	-0.000871	-0.001997	-0.002429	-0.001992	-0.001085	-0.000399	-0.000376
-0.000922	-0.001650	-0.002171	-0.002373	-0.002422	-0.002408	-0.002234	-0.001823
-0.001184	-0.000395	0.000412	0.001151	0.001845	0.002590	0.003392	0.003942
0.003858	0.002960	0.001265	-0.000925	-0.003108	-0.004781	-0.005628	-0.005606
-0.004851	-0.003589	-0.002067	-0.000691	-0.000013	-0.000301	-0.001268	-0.002373
-0.003257	-0.003772	-0.003844	-0.003392	-0.002177	-0.000081	0.002476	0.004502
0.005048	0.004200	0.003064	0.002727	0.003233	0.003483	0.002494	0.000612
-0.000543	0.000594	0.004131	0.008430	0.011309	0.011552	0.009402	0.005924
0.002123	-0.001499	-0.004932	-0.007996	-0.010390	-0.012068	-0.013098	-0.013642
-0.013650	-0.012645	-0.010638	-0.008791	-0.008633	-0.011033	-0.015601	-0.020582
-0.023809	-0.024176	-0.021964	-0.018033	-0.013215	-0.008068	-0.003278	-0.000075
0.001070	-0.000359	-0.003377	-0.005939	-0.005849	-0.002717	0.002913	0.010414
0.019060	0.027991	0.035714	0.040350	0.040049	0.034246	0.024820	0.014936
0.007222	0.002029	-0.002565	-0.008678	-0.016541	-0.024348	-0.029547	-0.030935
-0.029469	-0.027248	-0.025837	-0.025219	-0.024399	-0.022580	-0.019482	-0.015212
-0.009728	-0.003240	0.003188	0.007769	0.008835	0.006906	0.004620	0.004467
0.007132	0.011536	0.016598	0.022657	0.031166	0.042620	0.055066	0.064162
0.066014	0.060096	0.049008	0.036484	0.025051	0.015342	0.007491	0.002027
-0.000381	-0.000627	-0.001266	-0.004770	-0.011596	-0.019210	-0.023740	-0.022705
-0.016389	-0.007743	-0.000132	-0.004588	0.006360	0.006017	0.004363	0.001902
-0.000968	-0.004048	-0.007042	-0.009678	-0.011964	-0.013994	-0.015554	-0.015728
-0.013592	-0.008247	0.000767	0.013186	0.027272	0.039409	0.046157	0.046350
0.041244	0.032669	0.022260	0.011124	0.000130	-0.010099	-0.019003	-0.026816
-0.035543	-0.047369	-0.063788	-0.083258	-0.099919	-0.107331	-0.102460	-0.086715
-0.065550	-0.045652	-0.031801	-0.025611	-0.026749	-0.033199	-0.040237	-0.042974
-0.038863	-0.027642	-0.012160	0.002123	0.011590	0.017464	0.023072	0.030642
0.039152	0.044581	0.043851	0.038342	0.032804	0.030464	0.029778	0.025423
0.013181	-0.005439	-0.023802	-0.036226	-0.041948	-0.045650	-0.053172	-0.064787
-0.075050	-0.078070	-0.071907	-0.059907	-0.046844	-0.033834	-0.019232	-0.001921
0.016277	0.030298	0.036309	0.035261	0.032301	0.031803	0.032880	0.031221
0.024592	0.015243	0.008390	0.007473	0.009072	0.006754	-0.001852	-0.011577
-0.013536	-0.002321	0.019390	0.040746	0.050789	0.045920	0.030431	0.012429
-0.002501	-0.015027	-0.027882	-0.040907	-0.050580	-0.051749	-0.042310	-0.025736
0.009073	0.001606	0.003906	-0.001260	-0.010418	-0.020235	-0.028407	-0.031934
-0.028151	-0.018092	-0.005732	0.004315	0.009093	0.009343	0.007174	0.004051
-0.000095	-0.006830	-0.016918	-0.026937	-0.030927	-0.023481	-0.003841	0.021716
0.043700	0.054226	0.050413	0.033382	0.006402	-0.023772	-0.049276	-0.063839
-0.063363	-0.047606	-0.022606	0.003584	0.026280	0.043326	0.054202	0.059602
0.059483	0.054953	0.049522	0.046769	0.048344	0.051731	0.054685	0.060138
0.072362	0.093612	0.118525	0.133077	0.124212	0.088650	0.034182	-0.023363
-0.068585	-0.094698	-0.102223	-0.092418	-0.065670	-0.023889	0.024461	0.061630
0.070626	0.043249	-0.013071	-0.075565	-0.119206	-0.131292	-0.116170	-0.088917
-0.064633	-0.050601	-0.046527	-0.047383	-0.048271	-0.048027	-0.045502	-0.036859
-0.019721	0.003349	0.024636	0.034733	0.030887	0.018806	0.006621	-0.000374
-0.002331	-0.003004	-0.004549	-0.005322	-0.003178	-0.000649	-0.004372	-0.016973
-0.032013	-0.037060	-0.024206	0.001322	0.026266	0.038674	0.036461	0.027307
0.018705	0.012971	0.009360	0.008795	0.015643	0.032715	0.056444	0.073856
0.071573	0.047422	0.011005	-0.019558	-0.029881	-0.018466	0.007701	0.038664
0.064750	0.076826	0.066041	0.028689	-0.032261	-0.105713	-0.172771	-0.216142
-0.226478	-0.201413	-0.145992	-0.069991	0.013703	0.088907	0.137784	0.146747
0.111762	0.042241	-0.038385	-0.106916	-0.148738	-0.159916	-0.145957	-0.114813
-0.071161	-0.017574	0.039982	0.091068	0.125054	0.136969	0.129312	0.109882
0.086079	0.061109	0.037672	0.020109	0.013421	0.019088	0.030339	0.033722
0.020765	-0.005075	-0.031005	-0.044103	-0.042274	-0.036035	-0.038695	-0.051541
-0.063195	-0.060490	-0.039215	-0.009014	0.014034	0.020009	0.008187	-0.017944
-0.054323	-0.096232	-0.133792	-0.150841	-0.135172	-0.087342	-0.021798	0.041019
0.086579	0.110508	0.116798	0.111078	0.094256	0.068718	0.043443	0.028133
0.027923	0.040553	0.057527	0.068712	0.069711	0.063364	0.053795	0.042590
0.031954	0.026932	0.034417	0.055704	0.080875	0.097272	0.093220	0.065345
0.026656	0.001233	0.007227	0.046982	0.106388	0.162218	0.197958	0.206468
0.186387	0.140388	0.075746	0.006291	-0.047607	-0.057788	-0.051067	-0.009903
0.036592	0.069458	0.075640	0.053190	0.007410	-0.050961	-0.103393	-0.130773
-0.125993	-0.100723	-0.079451	-0.081705	-0.110033	-0.152103	-0.186943	-0.196473
-0.175073	-0.129443	-0.071986	-0.013623	0.039203	0.080893	0.105687	0.112547
0.106157	0.095156	0.090543	0.102527	0.133297	0.170607	0.195467	0.194417
0.164417	0.114607	0.062127	0.020281	-0.007415	-0.023680	-0.030482	-0.027543
-0.018526	-0.010313	-0.009514	-0.020574	-0.042048	-0.066213	-0.106724	-0.115254
-0.063698	-0.043896	-0.032651	-0.037258	-0.057651	-0.084739	-0.106724	-0.115254
-0.106684	-0.082616	-0.048023	-0.010489	0.022758	0.046253	0.055333	0.049182
0.033488	0.019163	0.017604	0.034823	0.067421	0.104775	0.134196	0.146106
0.137456	0.108476	0.062064	0.006385	-0.048772	-0.094730	-0.125515	-0.142425
-0.152975	-0.162785	-0.168505	-0.161705	-0.138125	-0.105655	-0.081922	-0.085661
-0.122435	-0.176195	-0.224685	-0.251505	-0.249875	-0.224715	-0.185915	-0.137695
-0.079561	-0.013597	0.053142	0.112615	0.159675	0.193845	0.215765	0.225895
0.223845	0.207245	0.178755	0.146775	0.118045	0.093708	0.069204	0.038070
-0.000845	-0.041265	-0.074233	-0.093311	-0.097912	-0.092269	-0.081417	-0.069215
-0.058268	-0.051995	-0.054628	-0.064655	-0.074580	-0.078588	-0.077764	-0.078302
-0.065051	-0.094848	-0.095651	-0.077917	-0.043323	-0.002105	0.035548	0.065767
0.089225	0.106854	0.118484	0.122784	0.121394	0.121644	0.129824	0.142684

input file: ltvert.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: ltvert.xls

0.150304	0.144014	0.123154	0.096184	0.072204	0.055727	0.046384	0.044327
0.054874	0.082641	0.123104	0.160894	0.175903	0.154674	0.099546	0.026871
-0.044235	-0.104347	-0.152257	-0.187537	-0.208587	-0.211197	-0.191877	-0.155217
-0.112767	-0.076847	-0.053358	-0.037078	-0.020099	-0.000538	0.016922	0.025826
0.026755	0.030356	0.049242	0.088741	0.141233	0.189253	0.217263	0.218723
0.196413	0.158423	0.111063	0.059318	0.014879	-0.004607	0.010977	0.055367
0.104903	0.131843	0.122273	0.082615	0.033495	-0.004903	-0.026507	-0.037883
-0.044340	-0.045812	-0.041153	-0.028629	-0.011841	-0.000992	-0.000127	-0.002633
0.001417	0.016454	0.037249	0.053538	0.054659	0.036045	0.005446	-0.027174
-0.055723	-0.074611	-0.077187	-0.059633	-0.027390	0.004125	0.017438	0.005015
-0.021985	-0.039621	-0.028240	0.014732	0.074361	0.128432	0.161282	0.170102
0.156162	0.120122	0.064810	0.000403	-0.055224	-0.085945	-0.089316	-0.076370
-0.062944	-0.060387	-0.070690	-0.090046	-0.118289	-0.158499	-0.208319	-0.255119
-0.280059	-0.270769	-0.230869	-0.178829	-0.133969	-0.102509	-0.078756	-0.052885
-0.020317	0.013642	0.040474	0.056960	0.063620	0.059342	0.041893	0.011114
-0.026827	-0.056020	-0.059256	-0.032739	0.009739	0.045811	0.055923	0.033633
-0.011150	-0.062524	-0.107289	-0.135639	-0.141919	-0.124369	-0.082097	-0.021633
0.038744	0.082221	0.100620	0.092401	0.063307	0.024847	-0.015393	-0.051872
-0.077211	-0.084886	-0.071002	-0.041513	-0.010283	0.012342	0.023985	0.029254
0.034020	0.038496	0.035893	0.018214	-0.011272	-0.037650	-0.045507	-0.028695
0.008007	0.054738	0.102830	0.148340	0.189910	0.224320	0.245270	0.248100
0.230820	0.196370	0.153880	0.110920	0.074779	0.050906	0.039588	0.037559
0.040547	0.044214	0.043807	0.033913	0.010396	-0.027251	-0.073010	-0.113431
-0.136121	-0.136061	-0.114221	-0.077901	-0.037206	-0.000683	0.027124	0.045110
0.054634	0.059829	0.066442	0.077982	0.091009	0.100429	0.106299	0.111579
0.117939	0.123189	0.119269	0.097802	0.064973	0.040513	0.039385	0.060829
0.088469	0.098662	0.077559	0.033506	-0.009919	-0.032935	-0.031409	-0.013910
0.008781	0.028065	0.040339	0.045768	0.041703	0.024624	-0.005028	-0.039862
-0.068464	-0.083307	-0.085522	-0.082771	-0.082511	-0.086954	-0.092768	-0.097491
-0.102712	-0.107722	-0.107792	-0.095960	-0.064530	-0.013609	0.043254	0.087879
0.109428	0.110228	0.101658	0.093402	0.088623	0.085964	0.081847	0.072925
0.057546	0.033547	-0.000532	-0.040697	-0.077934	-0.102662	-0.109972	-0.104822
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0.105277	0.105857	0.093640	0.072242	0.052941	0.048261	0.061128	0.084471
0.106087	0.114107	0.103987	0.081899	0.057861	0.037925	0.024598	0.017775
0.011371	-0.002756	-0.026690	-0.054643	-0.077624	-0.090774	-0.095082	-0.093864
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0.213405	0.216495	0.211675	0.197115	0.167265	0.121965	0.069252	0.020546
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0.156694	0.126294	0.067630	-0.002584	-0.065444	-0.104076	-0.111316	-0.096034
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0.109853	0.118304	0.124513	0.126513	0.127793	0.132713	0.140223	0.140963
0.122603	0.081156	0.025105	-0.030798	-0.073242	-0.094434	-0.094987	-0.084607
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0.028299	0.072515	0.115923	0.146723	0.156263	0.139073	0.099200	0.050015
0.009266	-0.009267	-0.003655	0.017837	0.045159	0.067621	0.076865	0.072625
0.057902	0.036500	0.016091	0.006458	0.014559	0.037607	0.060660	0.067174
0.049090	0.009157	-0.041744	-0.094032	-0.139498	-0.173368	-0.195318	-0.202968
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0.064934	0.113352	0.167072	0.219582	0.257511	0.269482	0.249171	0.199731
0.139531	0.088467	0.061699	0.068832	0.106371	0.158551	0.206771	0.229631
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-0.026044	-0.012595	-0.013482	-0.036934	-0.081515	-0.129902	-0.157922	-0.144712
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0.088897	-0.037182	-0.148512	-0.223022	-0.259242	-0.267452	-0.259912	-0.242862
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0.294817	0.285727	0.238377	0.166127	0.090786	0.037259	0.018131	0.027914
0.050215	0.065450	0.060322	0.035374	0.001262	-0.030892	-0.060872	-0.094764

input file: ltvert.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: ltvert.xls

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0.158587	0.155307	0.109107	0.049650	0.009498	0.003687	0.022820	0.045676
0.061601	0.078548	0.104616	0.132336	0.143526	0.128896	0.096638	0.066001
0.051702	0.052251	0.056717	0.060622	0.070582	0.092092	0.117556	0.128956
0.114556	0.083046	0.055410	0.045459	0.046309	0.034453	-0.009316	-0.082159
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0.110155	0.175235	0.224735	0.228985	0.164015	0.032783	-0.128815	-0.271265
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0.003777	0.009454	-0.013024	-0.056206	-0.109265	-0.163615	-0.209306	-0.233336
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0.263203	0.359733	0.438193	0.474773	0.453023	0.363443	0.217993	0.056697
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0.197810	0.161850	0.126040	0.106930	0.122390	0.177640	0.260150	0.334830
0.358970	0.311820	0.209270	0.094624	0.006818	-0.034804	-0.031788	-0.000580
0.040071	0.077194	0.099215	0.092169	0.052814	-0.003441	-0.050852	-0.068557
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0.247270	0.254280	0.259610	0.279300	0.311960	0.329740	0.312970	0.274990
0.249989	0.266039	0.319400	0.371989	0.374149	0.298249	0.159719	0.001318
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0.149295	0.093063	0.062654	0.087450	0.171695	0.291465	0.393715	0.413335
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0.577691	0.604731	0.565351	0.469081	0.354921	0.258771	0.196811	0.166001

input file: ltvert.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: ltvert.xls

0.150501	0.142031	0.148011	0.177201	0.225571	0.268901	0.275521	0.236271
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0.242030	0.274830	0.309400	0.341840	0.357930	0.343220	0.299080	0.238850
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0.025182	0.169599	0.274869	0.302309	0.265639	0.213039	0.180569	0.167439
0.148489	0.112919	0.078673	0.074752	0.122629	0.218229	0.331119	0.429649
0.493359	0.515429	0.496529	0.435209	0.334359	0.212219	0.097886	0.025732
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input file: ltvrt.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: ltvrt.xls

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input file: ltvrt.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: ltvrt.xls

-0.005009	-0.063036	-0.085365	-0.065827	-0.028793	-0.004151	0.001808	0.001491
0.009397	0.031608	0.065975	0.108992	0.159272	0.215732	0.270712	0.308972
0.311082	0.268232	0.199932	0.139882	0.112972	0.123652	0.154612	0.183342
0.195682	0.190982	0.176311	0.158272	0.138371	0.115271	0.095053	0.091477
0.108541	0.133371	0.147091	0.136441	0.101641	0.057375	0.023301	0.010685
0.017344	0.029963	0.033785	0.023184	0.000959	-0.031645	-0.073835	-0.119439
-0.161669	-0.190519	-0.193279	-0.163879	-0.108819	-0.042809	0.017894	0.054454
0.046810	-0.015685	-0.126019	-0.259279	-0.379929	-0.458659	-0.091999	0.020537
-0.382839	-0.323349	-0.284259	-0.262059	-0.235099	-0.181669	0.048929	0.024013
0.116981	0.168791	0.171901	0.141581	0.101221	0.069355	-0.164160	-0.122740
-0.021603	-0.088322	-0.159940	-0.213090	-0.228310	-0.206010	0.180680	0.148420
-0.095211	-0.073350	-0.037568	0.022354	0.097599	0.160070	-0.041182	0.009936
0.073714	-0.014549	-0.083522	-0.114010	-0.109110	-0.082024	0.003717	0.015035
0.062320	0.099466	0.109340	0.091261	0.054668	0.018947	-0.072135	-0.105450
0.038740	0.052158	0.049139	0.032866	0.005610	-0.030408	0.104210	0.099437
-0.106500	-0.061912	0.014516	0.088742	0.127850	0.124990	0.184889	0.122769
0.127790	0.177420	0.222920	0.247600	0.248079	0.226690	0.053529	0.085897
0.045123	-0.032874	-0.086769	-0.098197	-0.066044	-0.006355	-0.038356	-0.030729
0.094391	0.072985	0.039029	0.004844	-0.021687	-0.036510	-0.183071	-0.176741
-0.022278	-0.022251	-0.038255	-0.073173	-0.119411	-0.161011	-0.168361	-0.194001
-0.142381	-0.092796	-0.049489	-0.034200	-0.057442	-0.111431	0.101409	0.044536
-0.166641	-0.088149	0.014802	0.102299	0.145929	0.141849	0.173699	0.160919
-0.005656	-0.028634	-0.013075	0.036804	0.100519	0.152419	0.029470	0.076718
0.128389	0.093343	0.062079	0.033820	0.011831	0.006987	-0.061381	-0.079390
0.127388	0.152848	0.137208	0.086003	0.021795	-0.030276	-0.039486	-0.052408
-0.094512	-0.105872	-0.102352	-0.078898	-0.048687	-0.032967	0.058900	-0.000748
-0.044027	0.001638	0.071577	0.131238	0.149408	0.118169	0.042532	0.060614
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0.031348	-0.031486	-0.093258	-0.123212	-0.112342	-0.074238	-0.129093	-0.126822
0.022408	0.026217	0.012594	-0.017793	-0.060181	-0.102942	0.026203	-0.005552
-0.095698	-0.047271	0.000042	0.031917	0.045393	0.043067	-0.205423	-0.217953
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-0.223063	-0.207323	-0.168793	-0.120233	-0.083287	-0.071671	-0.041062	-0.014386
-0.106733	-0.099038	-0.085551	-0.074548	-0.067853	-0.059469	0.067656	0.071788
0.008296	0.020501	0.025899	0.030994	0.040911	0.055549	0.020924	0.032881
0.066791	0.053720	0.036180	0.019305	0.009467	0.010683	-0.088808	-0.154063
0.038397	0.034740	0.024234	0.010246	-0.009132	-0.040252	-0.222324	-0.151514
-0.221113	-0.266964	-0.284954	-0.287204	-0.282254	-0.264164	0.075112	0.150286
-0.067683	-0.008593	0.003189	-0.014296	-0.022770	0.007368	0.458936	0.427556
0.204716	0.233156	0.259866	0.310046	0.380626	0.441146	0.292256	0.283816
0.371616	0.326326	0.306846	0.303756	0.303776	0.300176	-0.028594	-0.041011
0.272876	0.245886	0.194326	0.125176	0.054835	0.000625	-0.044871	-0.027535
-0.050393	-0.063475	-0.080393	-0.090906	-0.086349	-0.068344	-0.022126	0.004871
-0.022529	-0.028827	-0.041860	-0.053402	-0.056375	-0.045879	-0.056518	-0.039166
0.018900	0.007052	-0.029944	-0.071913	-0.091889	-0.081981	-0.014649	-0.015603
-0.045833	-0.072169	-0.095468	-0.092509	-0.064807	-0.032623	-0.040771	-0.098565
-0.020486	-0.010364	0.016455	0.041314	0.041328	0.010802	-0.099891	-0.041339
-0.148335	-0.182515	-0.200855	-0.204075	-0.189585	-0.153715	-0.060185	-0.031616
0.003220	0.021015	0.009700	-0.023403	-0.057288	-0.071409	0.093177	0.120955
-0.000351	0.020478	0.025928	0.025628	0.035605	0.060268	-0.223156	-0.264226
0.130975	0.116444	0.074918	0.009468	-0.070383	-0.152726	-0.154276	-0.139726
-0.265736	-0.234786	-0.193346	-0.163146	-0.152766	-0.155256	-0.029941	-0.013543
-0.114106	-0.087821	-0.070456	-0.062744	-0.057229	-0.046332	0.258094	0.247914
0.001868	0.026098	0.069351	0.129764	0.192744	0.239814	0.167494	0.192584
0.221794	0.193834	0.172144	0.157434	0.149254	0.151454	-0.065807	-0.137726
0.214644	0.218584	0.194574	0.146154	0.082515	0.010216	-0.079062	-0.105267
-0.190336	-0.207166	-0.183946	-0.135776	-0.089748	-0.068901	-0.211287	-0.203717
-0.122987	-0.123426	-0.118597	-0.126827	-0.154737	-0.190077	-0.065240	0.030175
-0.173677	-0.143637	-0.133747	-0.143677	-0.150777	-0.129117	0.178273	0.172283
0.122113	0.182933	0.208043	0.207803	0.196253	0.184973	0.080462	0.073628
0.161903	0.147513	0.133223	0.120183	0.106583	0.092248	0.138833	0.115823
0.072539	0.081845	0.103053	0.129513	0.150383	0.154493	0.072418	0.024888
0.105283	0.114163	0.132013	0.143703	0.138693	0.113163	-0.089544	-0.034519
-0.027151	-0.084723	-0.140517	-0.177467	-0.180547	-0.146598	0.025132	0.035586
-0.001272	0.006612	0.000055	-0.005815	-0.001116	0.011880	0.116962	0.090762
0.047300	0.066864	0.095314	0.124612	0.141632	0.138062	0.089995	0.095580
0.072079	0.067140	0.072111	0.078369	0.081944	0.084627	-0.151748	-0.131478
0.089108	0.059814	0.008688	-0.053880	-0.111778	-0.147208	-0.068217	-0.099733
-0.097446	-0.059979	-0.029582	-0.014029	-0.016727	-0.036746	0.009763	0.023760
-0.118588	-0.118758	-0.103078	-0.079060	-0.050457	-0.018650	0.158162	0.168831
0.015474	-0.011833	-0.035163	-0.023598	0.029310	0.101771	-0.128969	-0.173899
0.132212	0.074517	0.025920	-0.003495	-0.029538	-0.072111	-0.108109	-0.068061
-0.182489	-0.155119	-0.118209	-0.102119	-0.111749	-0.122369	-0.117889	-0.099629
-0.026038	-0.009595	-0.029726	-0.073619	-0.112099	-0.125889	0.164381	0.097598
-0.072913	-0.027351	0.043200	0.124151	0.184661	0.199291	0.196381	0.265321
0.028059	-0.021306	-0.042226	-0.031113	0.016669	0.099689	-0.176499	-0.163309
0.268751	0.196691	0.077158	-0.043063	-0.129049	-0.169569	-0.099485	-0.159320
-0.133289	-0.085011	-0.027298	0.016521	0.019586	-0.026945	-0.103660	-0.094867
-0.179550	-0.161049	-0.126850	-0.101880	-0.095993	-0.101640	-0.016424	0.002359
-0.080889	-0.069886	-0.063900	-0.059297	-0.050627	-0.035569	0.279580	0.286700
0.022888	0.053649	0.099103	0.155250	0.210580	0.253710	0.127970	0.108500
0.276710	0.252320	0.217460	0.181170	0.154520	0.139860	-0.066796	-0.110290
0.079562	0.048892	0.024957	0.010568	-0.001343	-0.025297	-0.028039	-0.063215
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-0.118511	-0.113731	-0.094741	-0.065741	-0.032203	0.001719	0.140279	0.090508
0.103329	0.132549	0.158299	0.179499	0.188279	0.175529	-0.013440	-0.019232
0.039363	0.003131	-0.009509	-0.005377	0.000660	-0.002491		

input file: ltvert.ath

output file with header and footer: ltvert.xls

Calculation GEO.DCPP.01.37 Rev. 1

-0.011258	0.005429	0.021195	0.031172	0.038441	0.051899	0.076639	0.108269
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-0.132601	-0.159161	-0.156851	-0.126951	-0.085377	-0.051850	-0.039636	-0.050053
-0.074292	-0.099791	-0.117102	-0.127332	-0.138432	-0.155322	-0.173352	-0.180552
-0.167172	-0.131122	-0.079172	-0.026512	0.014336	0.042798	0.063272	0.076755
0.081260	0.075010	0.060750	0.044939	0.033140	0.028982	0.032796	0.040078
0.042035	0.033203	0.016016	-0.005078	-0.025944	-0.042510	-0.054346	-0.065455
-0.077286	-0.083501	-0.074258	-0.043043	0.006075	0.056275	0.086592	0.084945
0.056333	0.016727	-0.021225	-0.057074	-0.096125	-0.137952	-0.174542	-0.195032
-0.191402	-0.166602	-0.133292	-0.104432	-0.087071	-0.077977	-0.069579	-0.060837
-0.054104	-0.049331	-0.041901	-0.023942	0.007722	0.046591	0.078597	0.091384
0.085370	0.074804	0.075194	0.091941	0.116757	0.133587	0.133417	0.122227
0.109787	0.096880	0.076932	0.046106	0.010282	-0.015416	-0.018866	-0.003953
0.011316	0.008547	-0.016877	-0.053655	-0.084125	-0.097990	-0.100833	-0.101093
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0.121717	0.133157	0.120237	0.080299	0.026190	-0.022084	-0.049623	-0.058998
-0.061706	-0.061557	-0.051851	-0.023367	0.022557	0.070501	0.100626	0.103017
0.084107	0.057787	0.033501	0.014048	0.001021	-0.001206	0.013103	0.043896
0.077957	0.097021	0.093558	0.075254	0.058824	0.057465	0.067336	0.073490
0.068412	0.055895	0.043459	0.038243	0.043709	0.056210	0.070108	0.084544
0.098399	0.103386	0.089402	0.054979	0.011839	-0.021136	-0.029779	-0.015000
0.009799	0.031993	0.047446	0.057082	0.060033	0.050971	0.025774	-0.010473
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-0.112094	-0.108084	-0.094913	-0.070598	-0.029269	0.028443	0.090793	0.136706
0.146496	0.117576	0.067663	0.022090	-0.002720	-0.006895	-0.000142	0.008930
0.013830	0.010518	-0.002657	-0.028481	-0.066495	-0.107525	-0.136945	-0.145415
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0.040433	0.071354	0.082914	0.074308	0.049822	0.025103	0.020139	0.046293
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0.010541	0.054230	0.063143	0.086942	0.068124	0.039651	0.009583	-0.014350
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0.156074	0.149744	0.141884	0.126684	0.098840	0.063805	0.036953	0.032643
0.052089	0.081861	0.105234	0.114464	0.114094	0.111704	0.108534	0.099902
0.080220	0.050789	0.021154	-0.000856	-0.013192	-0.018145	-0.021673	-0.027062
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0.066071	0.052009	0.034617	0.023361	0.019578	0.021170	0.026514	0.035692
0.049883	0.066217	0.073994	0.060756	0.022483	-0.032479	-0.086220	-0.118917
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0.007497	-0.003956	-0.019505	-0.035719	-0.050223	-0.062651	-0.074361	-0.084566
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0.039804	0.003903	-0.037741	-0.078648	-0.109058	-0.119348	-0.105828	-0.077696
-0.051126	-0.035062	-0.026589	-0.018899	-0.008840	-0.001654	-0.008641	-0.035101
-0.074383	-0.111488	-0.130798	-0.124018	-0.096561	-0.063272	-0.036410	-0.017446
-0.001707	0.013570	0.027802	0.035905	0.033031	0.023856	0.020662	0.030612
0.051129	0.074394	0.090112	0.089463	0.073522	0.050980	0.029202	0.013196
0.010646	0.028297	0.050501	0.095294	0.116541	0.109701	0.074893	0.029016
-0.008188	-0.028471	-0.035656	-0.037992	-0.037214	-0.026810	-0.002232	0.027549
0.042208	0.024937	-0.021148	-0.071604	-0.099836	-0.096129	-0.071057	-0.045622
-0.032872	-0.027982	-0.018189	0.002147	0.027143	0.046243	0.054157	0.056298
0.064174	0.083265	0.107871	0.126861	0.135371	0.138491	0.142111	0.144871
0.142721	0.134261	0.121501	0.111541	0.112371	0.119151	0.115211	0.090362
0.050977	0.015519	0.001197	0.010675	0.029128	0.036709	0.023831	-0.003700
-0.033834	-0.061607	-0.089752	-0.122960	-0.159430	-0.185650	-0.184559	-0.151359
-0.098576	-0.045463	-0.006430	0.015733	0.026073	0.026752	0.017318	0.003004
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-0.056957	-0.086478	-0.109530	-0.114240	-0.096395	-0.062631	-0.025560	0.003397
0.018353	0.019436	0.009653	-0.007323	-0.025047	-0.036308	-0.037415	-0.029464
-0.018397	-0.011096	-0.006496	0.002202	0.018785	0.040948	0.059181	0.062352
0.049554	0.031150	0.019874	0.023389	0.039929	0.057054	0.061716	0.051668
0.034295	0.019566	0.014506	0.017788	0.021385	0.018087	0.004628	-0.016229
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0.150639	0.157019	0.141809	0.108249	0.069159	0.035955	0.009757	-0.015514
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0.038056	0.049340	0.055755	0.062148	0.071038	0.074593	0.060320	0.023107
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0.056352	0.042709	0.026824	0.007769	-0.015614	-0.039231	-0.055791	-0.059815
-0.049937	-0.031653	-0.013747	0.000559	0.015044	0.033647	0.056079	0.078092
0.094091	0.100767	0.098324	0.089599	0.079619	0.072881	0.066813	0.054229
0.031241	-0.000507	-0.036952	-0.071722	-0.096115	-0.103593	-0.093954	-0.073216
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-0.077322	-0.064302	-0.052596	-0.044327	-0.041017	-0.044027	-0.052603	-0.062315
-0.065451	-0.056584	-0.038027	-0.016609	0.000878	0.009223	0.008241	0.003058

input file: ltvert.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: ltvert.xls

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-0.019199	-0.023201	-0.017667	-0.008522	-0.003545	-0.007914	-0.022002	-0.040804
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0.006577	0.020023	0.017907	0.002766	-0.019687	-0.043824	-0.067449	-0.089008
-0.102864	-0.102304	-0.084701	-0.052856	-0.013276	0.026312	0.059562	0.083102
0.095506	0.098728	0.097303	0.095279	0.094565	0.094564	0.092824	0.089432
0.090549	0.101536	0.120706	0.139716	0.148066	0.139386	0.115615	0.085675
0.058089	0.035035	0.013542	-0.009137	-0.031538	-0.048694	-0.057410	-0.059294
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0.057043	0.031496	0.018367	0.017376	0.022899	0.028050	0.027574	0.018593
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input file: ltvert.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: ltvert.xls

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0.037668	0.029766	0.024222	0.021720	0.023495	0.030471	0.041161	0.052229
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0.011767	0.021239	0.030999	0.034598	0.029032	0.017475	0.055900	0.053876
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0.043280	0.043068	0.039582	0.033279	0.025499	0.018695	0.009678	0.002384
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0.041817	0.049487	0.048378	0.037617	0.023053	0.013323	-0.061233	-0.059528
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input file: ltvert.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: ltvert.xls

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input file: ltvert.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: ltvert.xls

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input file: ltvrt.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: ltvrt.xls

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input file: ltvert.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: ltvert.xls

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input file: ltvert.ath

Calculation GEO.DCPP.01.37 Rev. 1

output file with header and footer: ltvert.xls

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