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Piping Benchmark Problems

Dynamic Analysis Uniform Support Motion
Response Spectrum Method

MASTER

Prepared by P. Bezler, M. Hartzman, M. Reich

Brookhaven National Laboratory

Prepared for
U.S. Nuclear Regulatory
Commission

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Dynamic Analysis Uniform Support Motion Response Spectrum Method

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ABSTRACT

A set of benchmark problems and solutions have been developed for verifying the adequacy of computer programs used for dynamic analysis and design of nuclear piping systems by the Response Spectrum Method. The problems range from simple to complex configurations which are assumed to experience linear elastic behavior. The dynamic loading is represented by uniform support motion, assumed to be induced by seismic excitation in three spatial directions. The solutions consist of frequencies, participation factors, nodal displacement components and internal force and moment components. Solutions to associated anchor point motion static problems are not included.

TABLE OF CONTENTS

	Page
Abstract	iii
Table of Contents	iv
List of Figures	v
I. Introduction	1
II. Background	3
II.1 Program Description	3
II.2 Input-Output	8
III. Description of Piping Benchmark Problems	13
III.1 Benchmark Problem 1	15
III.2 Benchmark Problem 2	16
III.3 Benchmark Problem 3	17
III.4 Benchmark Problem 4	18
III.5 Benchmark Problem 5	19
III.6 Benchmark Problem 6	20
III.7 Benchmark Problem 7	21
IV. Piping Benchmark Problems and Solutions	23
IV.1 Benchmark Problem 1	24
IV.2 Benchmark Problem 2	48
IV.3 Benchmark Problem 3	81
IV.4 Benchmark Problem 4	122
IV.5 Benchmark Problem 5	218
IV.6 Benchmark Problem 6	263
IV.7 Benchmark Problem 7	328
References	403

LIST OF FIGURES

<u>Figure</u>	<u>Title</u>	<u>Page</u>
1	Sign Convention for Forces and Moments	12
1.1	Benchmark Problem 1	24
1.2	Benchmark Problem 1 Spectrum	25
2.1	Benchmark Problem 2	48
2.2	Benchmark Problem 2 Spectrum	49
3.1	Benchmark Problem 3	81
3.2	Benchmark Problem 3 Spectrum	82
4.1	Benchmark Problem 4	122
4.2	Benchmark Problem 4 Spectrum	123
5.1	Benchmark Problem 5	218
5.2	Benchmark Problem 5 Spectrum	219
6.1	Benchmark Problem 6	263
6.2	Benchmark Problem 6 X-Z Spectrum	264
6.3	Benchmark Problem 6 Y Spectrum	265
7.1	Benchmark Problem 7	328
7.2	Benchmark Problem 7 X-Z Spectrum	329
7.3	Benchmark Problem 7 Y Spectrum	330

I. INTRODUCTION

Dynamic structural analysis of piping systems is one of the most extensive engineering efforts required for the safety design of nuclear power plants. Such analysis is normally performed by using computer programs which can handle complex system geometries and various loading conditions, static or dynamic.

Applicants for nuclear power plant licenses are required to provide confirmation of the adequacy of their programs, as prescribed by the guidelines of the Standard Review Plant (NUREG-75/087, Sept. 1975) and Appendix B, Section III, of 10CFR50. Of particular concern is the class of programs which are used by the industry to perform dynamic structural analyses of complex piping systems using the response spectrum method. These are generally large programs, based on the finite element method, which consider the structures to be elastic over the entire deformation history and to experience small displacements and rotations. Some of these programs are commonly available general purpose programs, while others are of a proprietary nature.

A need has been determined for additional verification of these structural computer programs beyond the level currently provided by applicants and licenses. The quality of these programs may be determined from a comparison of program generated solutions with known solutions of selected benchmark problems. A set of such problems and corresponding solutions are provided herein. The structures defined in these problems are assumed to experience linear elastic behavior and be subjected to dynamic loading induced by uniform earthquake

type excitation in three directions. Dynamic solutions were determined by application of the response spectrum method of seismic analysis, based on the following combinations described in Regulatory Guide 1.92, Rev. 1, Feb. 1976: Interspatial combination - SRSS (Section 2.1); Intermodal combination - Grouping method (Section 1.2.1).

The benchmark solutions were obtained by using the program EPIPE, which is a modification of the widely available program SAP IV. A brief outline and pertinent background of this program, and descriptions of its input-output formats are also included in this report.

II. BACKGROUND

II.1 Program Description

The EPIPE program is a modified version of the general purpose program SAP IV⁴ specifically prepared to perform piping analyses. The piping system may consist of straight elements, elbows and tees with spring hangers and anchor restraints. The loads can consist of mechanical loads, dead weight loads, thermal loads, anchor point support movements, seismic loadings, or any combinations of these conditions.

Since elastic piping analysis is a well established procedure, only a brief outline of the theoretical considerations used in obtaining the dynamic solutions will be presented. The analysis of a piping system is carried out by use of the stiffness matrix method, in which the piping is represented by a network of basic elements (straight and curved beams, and one-dimensional elements) interconnected at the nodes. The formulation of stiffness matrices for straight pipe (beam) and curved pipe may be found in several references such as (6) and (7). For a curved pipe or tee, the flexibility factor and stress intensification factor are considered in the formulation of the stiffness matrix and in the stress calculations, respectively. These factors are generally functions of pipe geometry and internal pressure.^{5,8}

The dynamic response of a piping system is described mathematically by the equations of motion

$$[M] \{\ddot{u}\} + [C] \{\dot{u}\} + [K] \{u\} = \{R(t)\}. \quad (1)$$

Only the lumped mass approximation is allowed. Thus, in equation (1) M represents the diagonal mass matrix of the structure, $\ddot{u}$, the nodal acceleration vector; $\dot{u}$, the nodal velocity vector; C , a damping matrix, for which the Rayleigh damping is assumed, i.e., $C = \alpha M + \beta K$, where both α and β are the damping coefficients; K , the stiffness matrix and $R(t)$, either a vector of arbitrary time-dependent loads or of effective loads resulting from earthquake motion.

The dynamic analysis may be performed by either the mode superposition method, the direct integration method, or by response spectrum analysis. All three methods are available in the EPIPE program, however only the response spectrum analysis procedure was employed in developing the solutions included herein.

The response spectrum analysis method is the primary method used to determine the dynamic response of a piping system to earthquake excitations. It is considered an acceptable, usually conservative, substitute for the more complex time history analysis methods.

The solution by this method closely parallels the solution by the modal superposition method. For ground motion excitation the system equations are expressed in terms of the relative deflection vector u_r ;

$$[M] \{\ddot{u}_r\} + [C] \{\dot{u}_r\} + [K] \{u_r\} = - [M] \{\ddot{u}_g\} \quad (2)$$

where

$u_r = u - u_g$, system relative displacement

u_g = ground displacement

u = system absolute displacement.

The equations are then expanded in terms of the system modal matrix and generalized coordinates;

$$[M] [\phi] \{\ddot{q}\} + [C] [\phi] \{\dot{q}\} + [K] [\phi] \{q\} = - [M] \{\ddot{u}_g\} \quad (3)$$

where

$[\phi]$ = normalized modal matrix, $[\phi^T] [M] [\phi] = I$

$\{q\}$ = generalized coordinates vector.

Multiplication by the transpose of the modal matrix yields

$$\{\ddot{q}\} + [\Delta] \{\dot{q}\} + [\omega^2] \{q\} = - [\phi^T] [M] \{\ddot{u}_g\} \quad (4)$$

where

$[\omega^2]$ = diagonal matrix of eigen-values

$[\Delta]$ = diagonal matrix of modal damping coefficients, where the damping is assumed to satisfy the modal orthogonality condition.

This results in n uncoupled equations for the generalized coordinates.

The equation set can be solved for the maximum modal response for each system degree of freedom corresponding to excitation in each spatial direction. That is the solution provides;

$$u_{m,n,i} = \frac{S_{n,i}}{\omega_n^2} \phi_{m,n} \Gamma_{n,i} \quad (5)$$

where

$u_{m,n,i}$ = maximum displacement of m-th degree of freedom in the n-th mode due to excitation in the i-th spatial direction.

$S_{n,i}$ = value of spectral acceleration corresponding to frequency ω_n , and the i-th spatial direction input response spectrum

$\Gamma_{n,i}$ = modal participation factor for mode n and i-th spatial direction

ω_n = n-th system natural frequency

$\phi_{m,n}$ = modal deflection of degree of freedom m in n-th mode

m = degree of freedom index

n = modal index

i = spatial index

For the general case where a three component seismic excitation is considered the solution provides 3(m)(n) component answers. For the final solution the component results must be combined over the n modes, intermodal combination, and over the 3 excitations, interspatial combination, to provide m resultant system degree of freedom displacements.

The EPIPE program has the facility to perform the spatial and modal combinations in several ways. The procedure adopted in all solutions except where noted is to perform the interspatial combination first in accordance with the SRSS rule followed by intermodal combinations using the grouping method as described in Section 1.2.1

of the Regulatory Guide 1.92. However problems 2, 4, 6 and 7 also contain the solutions calculated by performing the intramodal combination first followed by the interspatial combination.

II.2 Input-Output Format

To facilitate proper use of the bench mark problems a brief summary of the pertinent EPIPE input-output data lists will be presented.

As with any piping analysis code the input data must fully define the geometry of the system under study, the calculational mode to be employed in the analysis and the forcing functions, if any, driving the system. The EPIPE data input format is almost identical to that of SAP IV, clearly labeled and should be easily interpreted. In the description to follow only those parameters for which misinterpretation may occur will be discussed.

The first page shows a table indicating the number of nodal points, element types, load cases, frequencies, etc., followed by a listing of the nodal point coordinates. The number of load cases refers to static analysis runs and is not applicable to these problems. The number of frequencies is the number of frequencies solved for in the eigen-value routine and used in the subsequent response spectrum analysis. In the nodal point list, all dimensions are in inches and for the boundary condition codes "1" signifies that that degree of freedom is completely restrained while "0" or "-0" signifies complete freedom. As indicated, each node potentially has six degrees of freedom. "X" signifying displacement in the X global direction, "XX" signifying rotation about the X global axis.

The next blocks of input information are the input element data lists. Since the system may be subdivided into groups of elements

this data is entered group by group. Only two types of elements exist, boundary or spring elements and pipe (either tangent or bend) elements. A single group is comprised of all pipe elements or all spring elements as intermixing element types within a group is not allowed.

For a typical pipe element data group, the first page lists control information for the group, i.e., type of element, number of elements, etc. This is followed by a material properties table where on each line of this table are specified; the material identification number, the temperature for which the data applies and the corresponding modulus of elasticity, Poisson ratio and coefficient of thermal expansion. Following this is the section properties table where all data entries are clearly labeled. Next are listed entries entitled "Load Case Multipliers". These only apply to static analysis runs and may be ignored. The last and largest list in the group data is the element definition and connectivity table. Again the columns in this table are clearly labeled. For the bend elements, two lines are shown. The pressure indicated on the first line is the value of pressure used in the computation of the bend flexibility. The entries on the second line are the bend radius, third point declarer and the X, Y and Z coordinates of the third point. If the third point declarer is "TI" the coordinates of the bend tangent intercept are listed, if "CC" the coordinates of the bend center of curvature are listed. The columns entitled direction cosines, wall fraction and input tag may be ignored.

The group data list for boundary or spring elements is somewhat simpler. There is the element control information followed by

element load case multipliers which again may be ignored. The element definition and connectivity list follows and is clearly labeled. The interpretation of the pertinent information in this table is; the spring spans between the piping system node N and the fixed ground node NI, code KD and KR are spring type declarers where KD=1 signifies a linear spring while KR=1 signifies a torsional spring; the last column lists the appropriate spring rates. All other information in this table may be ignored.

The next table of input is labeled nodal loads. For the dynamic cases the table is a listing of all the concentrated masses, and the nodes at which they are located, acting on the system. The total mass used in each analysis is the sum of these quantities plus any distributed mass developed in the pipe elements. Distributed mass is developed in the pipe elements only if quantities appear in the columns entitled weight/unit length - mass/unit length in the pipe element section property tables.

The remaining input data describes the forcing function input spectra. The data is interspersed between the natural frequency - mode shape - modal participation factor outputs. The information describing the type and number of input spectra, the spectra weighting factors, the combination rule declarer and the cluster factor employed are listed immediately following the output frequency list. The input spectrum definition list immediately follows the participation factor

output. It must be noted that linear interpolation is used vis-a-vis the spectrum table.

The output includes listings of the system natural frequencies, some of the corresponding mode shapes for both a mass normalization and a unity normalization, the global displacements/rotations of all nodal points and element force outputs (labeled stresses) presented group by group. The element force outputs are referred to local element coordinate systems, not the global system. Figure 1 shows the sign convention and coordinate interpretation of these element forces. All of the output tables are clearly labeled.

Fig. 1

III. DESCRIPTION OF PIPING BENCHMARK PROBLEMS

Seven benchmark problems are included in this report, ranging from simple configurations to configurations taken from actual nuclear power plant piping systems. For each problem a schematic of the system, a complete listing of the input data and a complete listing of the output results for a response spectrum computation are included.

Although the response spectrum method was used throughout, the excitation function and computation options were not identical for all problems. The differences include: the combination sequence used, the use or ignorance of clustering, the number of input spectra and the corresponding weighting factors used and the frequency number approximation. A brief description of each problem delineating these differences is presented below; however the user is referred to the problem input data lists for the definitive description of each benchmark problem.

For benchmark problems 2,4,6 and 7 clustering by the grouping method was employed. For each of these problems two solutions are included. The first solution, designated a, corresponds to the interspatial/intermodal combination sequence while the second solution, designated b, corresponds to the intermodal/interspatial combination sequence. The two solutions are provided to demonstrate that solutions with clustering are combination dependent, to quantify to a limited extent the resultant differences, and to accommodate those users' whose computer methods have one or the other combinational sequence preprogrammed.

As mentioned the benchmark problems range from simple configurations, problems 1-3, to complex configurations problems 4-7. The simple configurations are included as they allow ready hand calculational checks of all pertinent results. However the solution of only these should not be construed as a suitable verification of a user code. To perform a complete verification solutions to all the problems should be developed.

III.1 Benchmark Problem 1, Hovgaard Problem

This problem is a simple, three-dimensional piping bend made up of only in line straight and bend pipe elements between two fixed anchors, Figure 1.1. The pertinent parameters are:

pipe outer diameter	- 7.288"
pipe wall thickness	- .241"
modulus of elasticity	- 24×10^6 psi
Poissons ratio	- .3
reference pressure	- 0.0 psi
distributed mass	- no

where the reference pressure is the value of pressure used in the computation of bend element flexibility factors and the no statement for distributed mass indicates that all the mass is input as concentrated loadings (i.e., no internal generation of element mass). For the solution a five frequency approximation was used with a single input spectrum, shown in Figure 1.2, having weighting factors of 1.0, 0.667 and 1.0 in the X, Y and Z global directions respectively. As all resultant system natural frequencies are spaced greater than 10% apart, clustering does not occur and the solution is therefore independent of the combination sequence employed.

This problem was selected as a benchmark because its simplicity allows the ready checking of key results. If lack of agreement between these and user generated results occurs, hand calculations can be used to resolve the differences. The problem is also one of the few piping problems for which partial analytical

solutions for static loadings exist in the literature^{9,10}. As such it was one of the problems used in the verification testing of the EPIPE code¹.

III.2 Benchmark Problem 2, Coffee Table

The structure is a multibranched configuration resembling a table, Figure 2.1. The pertinent parameters are:

pipe outer diameter	-	2.375"
pipe wall thickness	-	.154 "
modulus of elasticity	-	27.9×10^6 psi
Poissons ratio	-	.3
reference pressure	-	0.0 psi
distributed mass	-	no

For the solutions included a five frequency approximation was used with a single input spectrum, Figure 2.2, having weighting factors of 1.0, 0.667 and 1.0 respectively. Clustering via the grouping method was employed with a cluster factor of 0.1. Solutions were developed for both combination sequences. The solution corresponding to the interspatial/intermodal combination is designated 2a. Only the output listing for the second solution is included designated 2b.

This problem is a modification of a problem which exists in the literature and for which both experimental and analytically estimates for frequencies were determined, references 12, 13, 14. The original problem was modified so that its frequencies fell in the high amplification region of the prescribed response spectrum. The problem in its original form was used in the verification

testing of EPIPE. The problem has symmetric and antisymmetric modes which permits a quick check on the symmetry of the deformation and clustering of frequencies which permits a hand check on various methods of modal combination.

III.3 Benchmark Problem 3

This structure, Figure 3.1, is an expanded version of the first benchmark problem. The pertinent parameters are:

pipe outer diameter	- 7.288"
pipe wall thickness	- 0.241"
modulus of elasticity	- 24.0×10^6 psi
Poissons ratio	- 0.3
reference pressure	- 350 psi
distributed mass	- yes

For the solution a ten frequency approximation was used with a single input spectrum, Figure 3.2, having weighting factors of 1.0, 0.6667 and 1.0 respectively. A cluster factor of 0.1 was used but because of the natural frequency spacing clustering did not occur and the solution is insensitive to the combination sequence.

This problem was developed as an alternate to benchmark problem two. It contains several anchors and a branch connection, as with that problem, but in a configuration more nearly resembling a real piping system. It is a simple system which permits hand checking of modal combination methods if necessary. It includes intermediate spring supports to simulate hangers and snubbers and a flexible anchor at nodal point 1. The problem is designed to evaluate the capacity of a users code to assess these features.

The flexibility provision at anchor 1 allows a check on boundary or anchor force predictions.

III.4 Benchmark Problem 4

This structure, Figure 4.1, simulates the primary system of a hypothetical two loop reactor plant. It consists of an elastically supported reactor vessel, nodes 48-51, two steam generators, nodes 1-10 and 88-97 and four primary pumps connected by three and four foot diameter piping. The reactor, steam generators and pumps were modeled with massless pipe elements dimensioned to simulate the stiffness of these components. The pertinent parameters are:

pipe outer diameter	- 36 thru 144"
pipe wall thickness	- 0.38 thru 8"
modulus of elasticity	- 29.0×10^6 psi
Poissons ratio	- 0.3
reference pressure	- 2400 psi
distributed mass	- yes

For the solutions a thirty frequency approximation was used with a single input spectrum, Figure 4.2, having weighting factors of 1.0, 0.6667 and 1.0 respectively. Clustering, with a cluster factor of 0.1, was used and was effective. Two solutions are included, that designated 4a corresponding to the interspatial/intermodal combination sequence while that labeled 4b corresponding to the inverted sequence.

This problem was designed to be a definitive benchmark. It incorporates most of the features found in true piping systems in a realistic configuration. It is of a size or larger than the problems that would normally be considered in real plant evaluations. It is

bisymmetric and exhibits some near equal eigen-values, frequency pairs 19/20, 24/25 and 26/27. The large problem size, the symmetry and the equal eigen-value characteristics all pose significant tests of users codes. Any tendency towards round off error buildup will be magnified by the problem size and exhibited by a lack of symmetry in the solution results. Any sensitivity to the equal eigen-value condition, a common characteristic of many eigen-value solver routines, will result in completely distorted solution results. In short the problem is of sufficient complexity to fully exercise any computer code being used in the industry.

This problem, in a slightly modified form, was the subject of an extensive study². Solutions were developed for a response spectrum analysis, a time history analysis using the modal superposition solution method and a time history analysis using the direct integration solution method. The solution sensitivity to integration time step size, rotary inertia affects and the equal eigen-value condition were evaluated.

III.5 Benchmark Problem 5

The structure, Figure 5.1, is an inline system between two fixed anchors. The pertinent parameters are:

pipe outer diameter	- 12.75 and 14.0"
pipe wall thickness	- 0.375 thru 1.312"
modulus of elasticity	- 25.2×10^6 and 26.2×10^6 psi
Poissons ratio	- 0.3
reference pressure	- 0.0 psi
distributed mass	- no

For the solution an eleven frequency approximation was used with one spectrum, Figure 5.2, having weighting factors of 1.0, .6667 and 1.0 respectively. As clustering was not used the solution is insensitive to the combination sequence; however the interspatial/intermodal sequence was used for the solution included.

This problem, as well as the two problems to follow, were each taken from actual nuclear power plant piping systems. The problem is relatively straight forward with a simple geometry. It has two unique features; a transition between two materials and the inclusion of some valves. As regards the valves, they were modeled with thick walled, stiffened pipe elements where the stiffening was achieved by increasing the modulus of elasticity of the valve elements by a factor of three. This method of simulating valves is in accord with present industry practice. This problem is used to investigate the facility with which analysis methods treat the material transition and valve component.

III.6 Benchmark Problem 6

The structure, Figure 6.1, is essentially one large sweeping bend between two fixed points. The pertinent parameters are:

pipe outer diameter	- 30. and 32."
pipe wall thickness	- 0.85 and 0.905"
modulus of elasticity	- 29.9×10^6 psi
Poissons ratio	- 0.3
reference pressure	- 0.0 psi
distributed mass	- no

For the solutions a thirty-one frequency approximation was used with two excitation spectras, Figures 6.2 and 6.3. Clustering was employed ($CF = .10$), and solutions for both combination sequences are included. In addition, a solution with no clustering is also included labeled 6c.

This problem was selected from an actual piping system. It was chosen because of its unique, continuous curve geometry. For some of the analysis methods in use this type of geometry may pose a special problem as they require the introduction of imaginary tangent elements between bend elements. The problem can be used to investigate this characteristic. Additionally the problem includes independent spectra input allowing the investigation of the facility with which independent inputs are treated by other analysis codes.

III.7 Benchmark Problem 7.

The structure, Figure 7.1, is a multibranched configuration containing four anchor points. The pertinent parameters are:

pipe outer diameter	-	3.5 and 4.5"
pipe wall thickness	-	0.3 and 0.337"
modulus of elasticity	-	27.0×10^6 psi
Poissons ratio	-	0.3
reference pressure	-	0.0 psi
distributed mass	-	no

For the solution a twenty-two frequency approximation was used with two independent input excitation spectra, Figure 7.1 and 7.2. Clustering was employed ($CF = 0.1$) and two solutions 7a and 7b are included for the two combination sequences.

This problem was again selected from an actual piping system. It is the largest of the benchmark problems and permits checking analysis features which include multiple branches, multiple anchors, intermediate supports and hangers, valves and multiple excitation.

IV. PIPING BENCHMARK PROBLEMS

NOTE :

CIRCLED NUMBERS ARE
ELEMENT NUMBERS.

BENCHMARK PROBLEM NO.1

Figure 1.1

BENCHMARK PROBLEM NO. 1

Figure 1.2

HOVGAARD PROBLEM (RESPONSE SPECTRUM ANALYSIS)

CONTROL INFORMATION

NUMBER OF NODAL POINTS ■ 11
 NUMBER OF ELEMENT TYPES ■ 1
 NUMBER OF LOAD CASES ■ 0
 NUMBER OF FREQUENCIES ■ 5
 ANALYSIS CODE (NDYN) ■ 3
 EQ.0, STATIC
 EQ.1, MODAL EXTRACTION
 EQ.2, FORCED RESPONSE
 EQ.3, RESPONSE SPECTRUM
 EQ.4, DIRECT INTEGRATION
 SOLUTION MODE (MODEX) ■ 0
 EQ.0, EXECUTION
 EQ.1, DATA CHECK
 NUMBER OF SUBSPACE
 ITERATION VECTORS (NAD) ■ 0
 EQUATIONS PER BLOCK ■ 0
 TAPE10 SAVE FLAG (N10SV) ■ -0

NODAL POINT INPUT DATA

-26-

NODE NUMBER	BOUNDARY CONDITION CODES						NODAL POINT COORDINATES				T
	X	Y	Z	XX	YY	ZZ	X	Y	Z		
1	1	1	1	1	1	1	0.000	0.000	0.000	=0	-0.000
2	0	0	0	0	0	0	0.000	54.450	0.000	=0	-0.000
3	0	0	0	0	0	0	0.000	108.900	0.000	=0	-0.000
4	0	0	0	0	0	0	10.632	134.568	0.000	=0	-0.000
5	0	0	0	0	0	0	36.300	145.200	0.000	=0	-0.000
6	0	0	0	0	0	0	54.150	145.200	0.000	=0	-0.000
7	0	0	0	0	0	0	72.000	145.200	0.000	=0	-0.000
8	0	0	0	0	0	0	97.668	145.200	10.632	=0	-0.000
9	0	0	0	0	0	0	108.300	145.200	36.300	=0	-0.000
10	0	0	0	0	0	0	108.300	145.200	56.800	=0	-0.000
11	1	1	1	1	1	1	108.300	145.200	77.300	=0	-0.000

GENERATED NODAL DATA

NODE NUMBER	BOUNDARY CONDITION CODES						NODAL POINT COORDINATES				T
	X	Y	Z	XX	YY	ZZ	X	Y	Z		
1	1	1	1	1	1	1	0.000	0.000	0.000	=0.000	
2	0	0	0	0	0	0	0.000	54.450	0.000	=0.000	
3	0	0	0	0	0	0	0.000	108.900	0.000	=0.000	
4	0	0	0	0	0	0	10.632	134.568	0.000	=0.000	
5	0	0	0	0	0	0	36.300	145.200	0.000	=0.000	
6	0	0	0	0	0	0	54.150	145.200	0.000	=0.000	
7	0	0	0	0	0	0	72.000	145.200	0.000	=0.000	
8	0	0	0	0	0	0	97.668	145.200	10.632	=0.000	
9	0	0	0	0	0	0	108.300	145.200	36.300	=0.000	
10	0	0	0	0	0	0	108.300	145.200	56.800	=0.000	
11	1	1	1	1	1	1	108.300	145.200	77.300	=0.000	

C T R O L I N F O R M A T I O N

NUMBER OF PIPE ELEMENTS = 10
 NUMBER OF MATERIAL SETS = 1
 MAXIMUM NUMBER OF MATERIAL
 TEMPERATURE INPUT POINTS = 1
 NUMBER OF SECTION PROPERTY SETS = 1
 NUMBER OF BRANCH POINT NODES = 0
 MAXIMUM NUMBER OF TANGENTS
 COMMON TO A BRANCH POINT = 3
 FLAG FOR NEGLECTING AXIAL
 DEFORMATIONS IN BEND ELEMENTS = 0
 (EQ.1, NEGLECT)

M A T E R I A L P R O P E R T Y T A B L E S

MATERIAL NUMBER = (1)
 NUMBER OF
 TEMPERATURE POINTS = (1)
 IDENTIFICATION = (ALLOY STEEL
 1 -0.00 24000000.0 .300 .710E-05

SECTION PROPERTY TABLE

SECTION NUMBER	OUTSIDE DIAMETER	WALL THICKNESS	SHAPE FACTOR FOR SHEAR	WEIGHT/ UNIT LENGTH	MASS/ UNIT LENGTH	DESCRIPTION
1	7.288	.2410	-0.0000	-0.	0.	

ELEMENT LOAD CASE MULTIPLIERS

	CASE A	CASE B	CASE C	CASE D
X-DIRECTION GRAVITY	-0.000	-0.000	-0.000	-0.000
Y-DIRECTION GRAVITY	-0.000	-0.000	-0.000	-0.000
Z-DIRECTION GRAVITY	-0.000	-0.000	-0.000	-0.000
THERMAL DISTORTION	-0.000	-0.000	-0.000	-0.000
PRESSURE DISTORTION	-0.000	-0.000	-0.000	-0.000

EL I	T R	ELEMENT TYPE	NODE =I	NODE =J	MATL. NUMBER	SECTION NUMBER	REFERENCE TEMPERATURE (HEND RADIUS)	INTERNAL PRESSURE (THIRD POINT)	D I R E C T I O N C O S I N E S			N INCREM (WALL FRACTION)	INPUT TAG
									A(VX) (X3= ORDINATE)	A(VY) (Y3= ORDINATE)	A(VZ) (Z3= ORDINATE)		
	1	TANGENT	1	2	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
	2	TANGENT	2	3	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
	3	HEND	3	4	1	1	-0.00	-0.00					IC
							(36.300)	(CC) (	36.300)(	108.900)(	0.000) (	.1000)	
	4	HEND	4	5	1	1	-0.00	-0.00					IC
							(36.300)	(CC) (	36.300)(	108.900)(	0.000) (	.1000)	
	5	TANGENT	5	6	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
	6	TANGENT	6	7	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
	7	HEND	7	8	1	1	-0.00	-0.00					IC
							(36.300)	(CC) (	72.000)(	145.200)(	36.300) (	.1000)	
	8	HEND	8	9	1	1	-0.00	-0.00					IC
							(36.300)	(CC) (	72.000)(	145.200)(	36.300) (	.1000)	
	9	TANGENT	9	10	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
	10	TANGENT	10	11	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II

NODAL LOADS (STATIC) OR MASSES (DYNAMIC)

NODE NUMBER	LOAD CASE	X-AXIS FORCE	Y-AXIS FORCE	Z-AXIS FORCE	X-AXIS MOMENT	Y-AXIS MOMENT	Z-AXIS MOMENT
2	0	.39880E-01	.34880E-01	.39880E-01	=0.	=0.	=0.
3	0	.50320E-01	.50320E-01	.50320E-01	=0.	=0.	=0.
4	0	.20880E-01	.20880E-01	.20880E-01	=0.	=0.	=0.
5	0	.16980E-01	.16980E-01	.16980E-01	=0.	=0.	=0.
6	0	.13070E-01	.13070E-01	.13070E-01	=0.	=0.	=0.
7	0	.16980E-01	.16980E-01	.16980E-01	=0.	=0.	=0.
8	0	.10440E-01	.10440E-01	.10440E-01	=0.	=0.	=0.
9	0	.17950E-01	.17950E-01	.17950E-01	=0.	=0.	=0.
10	0	.15010E-01	.15010E-01	.15010E-01	=0.	=0.	=0.

STRUCTURE LOAD CASE	ELEMENT A	LOAD B	MULTIPLIERS C	D
1	-0.000	-0.000	-0.000	-0.000

PRINT OF FREQUENCIES

MOD NUM	CIRCULAR FREQUENCY (RAD/SEC)	FREQUENCY (CYCLES/SEC)	PERIOD (SEC)
1	.1793E+03	.2853E+02	.3504E-01
2	.3504E+03	.5577E+02	.1793E-01
3	.5121E+03	.8150E+02	.1227E-01
4	.8906E+03	.1417E+03	.7055E-02
5	.1023E+04	.1628E+03	.6142E-02

MODAL ANALYSIS

MODE NUMBER 1
FREQUENCY = 28.5350 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X- TRANSLATION	Y- TRANSLATION	Z- TRANSLATION	X- ROTATION	Y- ROTATION	Z- ROTATION
2	3.42220E-01	-5.68485E-05	-8.85645E-01	-2.79575E-02	-1.00245E-02	-1.07313E-02
3	1.01698E+00	-1.13666E-04	-2.66879E+00	-3.37631E-02	-2.00490E-02	-1.25227E-02
4	1.30013E+00	-1.10545E-01	-3.19652E+00	-2.65449E-02	-2.72333E-02	-9.09107E-03
5	1.38233E+00	-2.90462E-01	-2.62144E+00	-2.08346E-02	-3.67169E-02	-5.17444E-03
6	1.38218E+00	-3.73609E-01	-1.94797E+00	-1.85808E-02	-3.83704E-02	-4.15648E-03
7	1.38194E+00	-4.39014E-01	-1.25435E+00	-1.63271E-02	-3.88531E-02	-3.20969E-03
8	9.98898E-01	-3.46124E-01	-3.01433E-01	-1.24720E-02	-3.28633E-02	-1.57579E-03
9	3.57079E-01	-1.24835E-01	-1.31918E-03	-5.78475E-03	-1.61227E-02	-1.38556E-03
10	9.54511E-02	-3.27589E-02	-6.59614E-04	-3.07754E-03	-8.85114E-03	-6.92778E-04

M A L A N A L Y S I S

MODE NUMBER 1
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X- TRANSLATION	Y- TRANSLATION	Z- TRANSLATION	X- ROTATION	Y- ROTATION	Z- ROTATION
1	0.	0.	0.	0.	0.	0.
2	-1.07000E-01	1.77845E-05	2.77005E-01	8.74623E-03	3.13606E-03	3.35719E-03
3	-3.18154E-01	3.55593E-05	8.34905E-01	1.05025E-02	6.27212E-03	3.41754E-03
4	-4.06735E-01	3.45830E-02	1.00000E+00	8.30589E-03	8.51967E-03	2.84405E-03
5	-4.32448E-01	9.04681E-02	8.20092E-01	6.51790E-03	1.14865E-02	1.61877E-03
6	-4.32401E-01	1.16880E-01	6.09402E-01	5.81283E-03	1.20038E-02	1.30031E-03
7	-4.32328E-01	1.37341E-01	3.42410E-01	5.10777E-03	1.21548E-02	1.00412E-03
8	-3.12495E-01	1.08281E-01	9.43003E-02	3.90173E-03	1.02810E-02	4.92970E-04
9	-1.11709E-01	3.90535E-02	4.12692E-04	1.81127E-03	5.04342E-03	4.33458E-04
10	-3.00174E-02	1.02483E-02	2.06354E-04	9.62743E-04	2.76899E-03	2.16724E-04
11	0.	0.	0.	0.	0.	0.

MODAL ANALYSIS

MODE NUMBER 2
FREQUENCY = 55.7724 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X- TRANSLATION	Y- TRANSLATION	Z- TRANSLATION	X- ROTATION	Y- ROTATION	Z- ROTATION
2	9.04855E-01	-2.07745E-04	7.23240E-01	2.03365E-02	1.39412E-02	-2.54586E-02
3	2.21235E+00	-4.15056E-04	1.76570E+00	1.42084E-02	2.78825E-02	-1.79003E-02
4	2.43128E+00	-5.91614E-02	1.56927E+00	1.68264E-04	3.67200E-02	-1.28283E-03
5	2.42082E+00	-3.34368E-02	5.76743E-01	-1.48105E-03	3.52968E-02	1.01100E-03
6	2.41826E+00	-1.84942E-02	-1.84269E-02	-1.17404E-03	2.97910E-02	7.02217E-04
7	2.41517E+00	-8.13543E-03	-4.76724E-01	-8.67035E-04	1.99653E-02	4.93019E-04
8	2.28098E+00	3.38835E-03	-4.06210E-01	-3.09250E-04	-2.76935E-02	4.00310E-05
9	1.19743E+00	4.39435E-03	2.96750E-03	1.13667E-04	-4.40585E-02	-4.55960E-05
10	3.73511E-01	1.61722E-03	1.48347E-03	1.18205E-04	-3.07772E-02	-2.27980E-05

M A L A N A L Y S I S

MODE NUMBER 2
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X- TRANSLATION	Y- TRANSLATION	Z- TRANSLATION	X- ROTATION	Y- ROTATION	Z- ROTATION
1	0.	0.	0.	0.	0.	0.
2	3.72172E-01	-8.54465E-05	2.97445E-01	8.36450E-03	5.73411E-03	-1.04713E-02
3	9.09950E-01	-1.70715E-04	7.26241E-01	5.84398E-03	1.14682E-02	-7.36250E-03
4	1.00000E+00	-2.43334E-02	6.45448E-01	6.92077E-05	1.51032E-02	-5.27635E-04
5	9.95645E-01	-1.37527E-02	2.37218E-01	-6.09166E-04	1.45178E-02	4.15826E-04
6	9.94646E-01	-7.60678E-03	-7.57908E-03	-4.82891E-04	1.22532E-02	2.88826E-04
7	9.93374E-01	-3.34615E-03	-1.96079E-01	-3.56616E-04	8.21183E-03	2.02781E-04
8	9.38179E-01	1.39365E-03	-1.67076E-01	-1.27196E-04	-1.13905E-02	1.64650E-05
9	4.92509E-01	1.80742E-03	1.22055E-03	4.67518E-05	-1.81215E-02	-1.87539E-05
10	1.53627E-01	6.65172E-04	6.10365E-04	4.86184E-05	-1.26588E-02	-4.37694E-06
11	0.	0.	0.	0.	0.	0.

MODAL ANALYSIS

MODE NUMBER 3
FREQUENCY = 81.5000 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X- TRANSLATION	Y- TRANSLATION	Z- TRANSLATION	X- ROTATION	Y- ROTATION	Z- ROTATION
2	-4.11753E-01	-1.25395E-02	4.68251E-01	1.01245E-02	-4.46765E-04	1.97079E-02
3	-1.20689E+00	-2.50233E-02	6.20428E-01	-8.17178E-03	-9.43529E-04	-1.59548E-02
4	-7.66579E-02	-6.03984E-01	2.54954E-02	-3.64076E-02	2.31327E-03	-6.73028E-02
5	6.98456E-01	-2.47147E+00	-4.89100E-01	-5.21965E-02	6.86809E-05	-6.57881E-02
6	6.98894E-01	-3.56108E+00	-4.66191E-01	-6.08808E-02	-2.77863E-03	-5.41198E-02
7	6.98998E-01	-4.39551E+00	-3.89744E-01	-6.95650E-02	-5.69373E-03	-3.40026E-02
8	5.80963E-01	-3.95303E+00	-1.39614E-01	-8.66527E-02	-1.27204E-02	1.21125E-04
9	2.58512E-01	-1.75695E+00	-8.81195E-04	-6.95974E-02	-1.03030E-02	2.54053E-03
10	7.67148E-02	-5.23574E-01	-4.40736E-04	-4.46162E-02	-6.55782E-03	1.27026E-03

MODAL ANALYSIS

MODE NUMBER 3
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X- TRANSLATION	Y- TRANSLATION	Z- TRANSLATION	X- ROTATION	Y- ROTATION	Z- ROTATION
1	0.	0.	0.	0.	0.	0.
2	2.07428E-01	2.85281E-03	-1.06529E-01	-2.30337E-03	1.13016E-04	-4.48365E-03
3	2.74574E-01	5.69293E-03	-1.41150E-01	1.85912E-03	2.26033E-04	3.62980E-03
4	1.74400E-02	1.37409E-01	-5.80033E-03	8.28292E-03	-5.26280E-04	1.53117E-02
5	-1.58402E-01	5.62273E-01	1.11273E-01	1.18750E-02	-1.56252E-05	1.49671E-02
6	-1.59002E-01	8.10162E-01	1.06061E-01	1.38507E-02	6.32151E-04	1.23125E-02
7	-1.54025E-01	1.00000E+00	8.86688E-02	1.58264E-02	1.29535E-03	8.87328E-03
8	-1.32172E-01	8.99334E-01	3.17628E-02	1.97139E-02	2.89396E-03	-2.75565E-05
9	-5.88128E-02	3.49715E-01	2.00470E-04	1.58338E-02	2.34349E-03	-5.77983E-04
10	-1.74530E-02	1.19116E-01	1.00270E-04	1.01504E-02	1.49194E-03	-2.88992E-04
11	0.	0.	0.	0.	0.	0.

MODAL ANALYSIS

MODE NUMBER 4
FREQUENCY = 141.742 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X- TRANSLATION	Y- TRANSLATION	Z- TRANSLATION	X- ROTATION	Y- ROTATION	Z- ROTATION
2	1.63019E-01	-6.30600E-03	-2.59979E+00	-3.87677E-02	-2.76003E-02	-3.10802E-03
3	2.42168E-01	-1.25272E-02	-1.71408E+00	7.02914E-02	-5.52006E-02	-5.34572E-04
4	3.13033E-01	-6.21472E-02	1.79015E+00	1.19713E-01	-6.12623E-02	-7.68300E-03
5	4.24876E-01	-3.76639E-01	3.70256E+00	3.34849E-02	1.68665E-02	-1.34464E-02
6	4.21862E-01	-6.02679E-01	3.11288E+00	5.40801E-02	4.77748E-02	-1.06929E-02
7	4.18237E-01	-7.53797E-01	2.02108E+00	4.46753E-02	6.83542E-02	-5.97563E-03
8	1.09557E+00	-9.19707E-01	2.26237E-01	9.95421E-03	4.49990E-02	1.04846E-02
9	1.15490E+00	-5.96224E-01	2.28673E-02	-1.79443E-02	-3.04828E-02	1.06237E-02
10	4.25617E-01	-2.08297E-01	1.14446E-02	-1.57618E-02	-3.09992E-02	5.31184E-03

M A L A N A L Y S I S

MODE NUMBER 4
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X- TRANSLATION	Y- TRANSLATION	Z- TRANSLATION	X- ROTATION	Y- ROTATION	Z- ROTATION
1	0.	0.	0.	0.	0.	0.
2	4.40288E-02	-1.70315E-03	-7.02100E-01	-1.04705E-02	-7.45434E-03	-8.39425E-04
3	6.54057E-02	-5.38339E-03	-4.62446E-01	1.89846E-02	-1.49088E-02	-1.45730E-04
4	8.45450E-02	-1.67849E-02	4.83491E-01	3.23325E-02	-1.65459E-02	-2.07505E-03
5	1.14752E-01	-1.01724E-01	1.00000E+00	2.25479E-02	4.55537E-03	-3.63165E-03
6	1.13938E-01	-1.62774E-01	8.40738E-01	1.73070E-02	1.29032E-02	-2.88798E-03
7	1.12459E-01	-2.03588E-01	5.45861E-01	1.20661E-02	1.84614E-02	-1.61392E-03
8	2.95895E-01	-2.48348E-01	6.11024E-02	2.68847E-03	1.21535E-02	2.83172E-03
9	3.11919E-01	-1.81030E-01	6.17604E-03	-4.84645E-03	-8.23291E-03	2.86428E-03
10	1.14452E-01	-5.62577E-02	3.09094E-03	-4.25702E-03	-8.37237E-03	1.43464E-03
11	0.	0.	0.	0.	0.	0.

MODAL ANALYSIS

MODE NUMBER 5
FREQUENCY = 162.820 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X- TRANSLATION	Y- TRANSLATION	Z- TRANSLATION	X- ROTATION	Y- ROTATION	Z- ROTATION
2	-3.26947E+00	1.85720E-03	-2.54724E-01	-2.68102E-03	5.53053E-03	4.04174E-02
3	-1.54153E+00	3.68144E-03	-1.70891E-02	1.08414E-02	1.10611E-02	-6.77539E-02
4	1.14521E+00	-1.06916E+00	2.72620E-01	2.10019E-02	1.31944E-02	-7.53788E-02
5	1.49734E+00	-1.20183E+00	1.55074E-01	2.81283E-02	1.40426E-02	5.91981E-02
6	1.50466E+00	1.36131E-01	-8.85964E-02	1.28020E-02	1.22623E-02	6.34935E-02
7	1.50911E+00	1.73418E+00	-2.76960E-01	1.74756E-02	8.02499E-03	6.86161E-02
8	1.44624E+00	3.18733E+00	-2.28086E-01	1.49833E-02	-1.42102E-02	5.48752E-02
9	8.28326E-01	1.93073E+00	-6.07465E-04	6.82498E-02	-2.81082E-02	2.72084E-02
10	2.73838E-01	6.24086E-01	-3.04115E-04	4.99306E-02	-2.15497E-02	1.36042E-02

D D A L A N A L Y S I S

MODE NUMBER 5
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X- TRANSLATION	Y- TRANSLATION	Z- TRANSLATION	X- ROTATION	Y- ROTATION	Z- ROTATION
1	0.	0.	0.	0.	0.	0.
2	1.00000E+00	-5.68043E-04	7.94343E-02	8.20017E-04	-1.69157E-03	-1.23621E-02
3	4.71494E-01	-1.12600E-03	5.22689E-03	-3.31546E-03	-3.38314E-03	2.68404E-02
4	-3.50275E-01	3.27019E-01	-8.33637E-02	-6.42364E-03	-4.03564E-03	2.30554E-02
5	-4.57975E-01	3.67590E-01	-4.74310E-02	-8.60333E-03	-4.29508E-03	-1.81063E-02
6	-4.60214E-01	-4.16370E-02	2.70981E-02	-1.00328E-02	-3.75054E-03	-2.55373E-02
7	-4.61576E-01	-5.30418E-01	8.47109E-02	-1.14623E-02	-2.45452E-03	-2.71041E-02
8	-4.42346E-01	-9.74878E-01	6.97625E-02	-1.68172E-02	4.34634E-03	-1.67841E-02
9	-2.53352E-01	-5.90534E-01	1.85799E-04	-2.08749E-02	8.59716E-03	-6.32198E-03
10	-8.37562E-02	-1.90883E-01	9.30165E-05	-1.52718E-02	6.59119E-03	-4.16099E-03
11	0.	0.	0.	0.	0.	0.

E I G E N S O L U T I O N T I M E L O G

EIGENSOLUTION = .14
PRINTING = .06

CASE 1

DIRECTION FACTORS

X = 1.0000 Y = .6667 Z = 1.0000

INDICATOR FOR DISPLACEMENT OR ACCELERATION SPECTRUM = 1

EQ.0 DISPLACEMENT
EQ.1 ACCELERATION IN IN./SEC.2
EQ.2 ACCELERATION IN GS

1 SPECTRA ARE ENTERED FOR CASE 1. KIND= 2

CLUSTER FACTOR, CF = .10000

MODAL PARTICIPATION FACTORS

MOD	X-DIRECTION	Y-DIRECTION	Z-DIRECTION
1	.1752E+00	-.2593E-01	-.3308E+00
2	.3028E+00	-.2074E-02	.1478E+00
3	-.5347E-01	-.2582E+00	.2743E-01
4	.8361E-01	-.5268E-01	-.1174E-01
5	-.7925E-01	.0605E-01	-.1115E-01

SPECTRUM TABLE (IMPERIAL VALLEY E.Q. ELCENTRO 1940 SE

NUMBER OF POINTS = 11
SCALE FACTOR = .10000E+01

INPUT POINT	PERIOD	SPECTRUM VALUE
1	.1698E-02	.1450E+03
2	.2800E-01	.3800E+03
3	.5800E-01	.7750E+03
4	.7100E-01	.7750E+03
5	.9100E-01	.4400E+03
6	.1140E+00	.1188E+04
7	.1410E+00	.1188E+04
8	.1720E+00	.7000E+03
9	.2000E+00	.5710E+03
10	.2500E+00	.5710E+03
11	.3210E+00	.4000E+03

CLUSTERING. +1 MEANS MODE I CLOSE TO I+1. -1, NO1.
-1. -1. -1. -1. 0.

N O D E D I S P L A C E M E N T S / R E L A T I O N S

NUDE NUMBER	NUDE NUMBER	X- TRANSLATION	Y- TRANSLATION	Z- TRANSLATION	X- ROTATION	Y- ROTATION	Z- ROTATION
1	TOTAL..	0.	0.	0.	0.	0.	0.
2	TOTAL..	2.04357E-03	2.10823E-06	4.86378E-03	1.53224E-04	5.60049E-05	6.29377E-05
3	TOTAL..	5.89413E-03	4.20722E-06	1.46073E-02	1.84130E-04	1.12010E-04	7.01236E-05
4	TOTAL..	7.41387E-03	6.12191E-04	1.74471E-02	1.44572E-04	1.51908E-04	5.07153E-05
5	TOTAL..	7.83967E-03	1.63235E-03	1.42699E-02	1.13684E-04	2.02321E-04	3.02036E-05
6	TOTAL..	7.83822E-03	2.11587E-03	1.05968E-02	1.01589E-04	2.10497E-04	2.43603E-05
7	TOTAL..	7.83621E-03	2.49629E-03	6.83757E-03	8.95652E-05	2.12142E-04	1.86710E-05
8	TOTAL..	5.82150E-03	1.99362E-03	1.68145E-03	6.93439E-05	1.80566E-04	8.62004E-06
9	TOTAL..	2.23063E-03	7.39284E-04	7.69032E-03	3.35482E-05	9.65399E-05	7.56499E-06
10	TOTAL..	6.24073E-04	1.98397E-04	3.84537E-06	1.83133E-05	5.57923E-05	3.78250E-06
11	TOTAL..	0.	0.	0.	0.	0.	0.

OR 1 ELEMENT, THE FOLLOWING INFORMATION IS PRINTED:

1. FOR EACH EARTH QUAKE DIRECTION, THE NUMBER OF THE MODE WITH THE LARGEST STRESS.
 2. THE VALUE OF THAT STRESS.
 3. IF REQUESTED, THE MODE BY MODE STRESSES FOR EACH EARTH QUAKE DIRECTION.
 4. THE RESULTANT FOR EACH EARTH QUAKE DIRECTION.
 5. THE GRAND TOTAL OF THE THREE EARTH QUAKE DIRECTIONS.
- (NOTE: THE X, Y, OR Z REFERS TO THE EARTH QUAKE DIRECTION.)

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (1)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	3	1	2	1	1	1	3	1	2	1	1	1
X MAXIMUM	1.441E+00	-1.657E+01	9.387E+00	-2.867E+02	-5.803E+02	-1.490E+03	1.441E+00	-1.657E+01	9.387E+00	-2.867E+02	-2.176E+02	-5.883E+02
Y	3	1	3	1	3	1	3	1	3	1	3	1
Y MAXIMUM	4.594E+00	1.635E+00	3.058E+00	2.828E+01	-1.281E+02	1.470E+02	4.594E+00	1.635E+00	3.058E+00	2.828E+01	3.839E+01	5.804E+01
Z	3	1	1	1	1	1	3	1	1	1	1	1
Z MAXIMUM	-7.455E-01	3.128E-01	-1.258E+01	5.412E+02	1.045E+03	2.814E+03	-7.455E-01	3.128E+01	-1.258E+01	5.412E+02	4.107E+02	1.111E+03
GRAND TOTAL	4.958E+00	3.643E-01	1.788E+01	6.296E+02	1.344E+03	3.227E+03	4.958E+00	3.643E+01	1.788E+01	6.296E+02	4.732E+02	1.260E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (2)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	3	1	2	1	1	1	3	1	2	1	1	2
X MAXIMUM	1.434E+00	-1.368E-01	5.632E+00	-2.867E+02	-2.176E+02	-5.883E+02	1.434E+00	-1.368E-01	5.632E+00	-2.867E+02	2.469E+02	-1.489E+02
Y	3	1	3	1	3	1	3	1	3	1	3	3
Y MAXIMUM	4.574E+00	1.350E-00	1.573E+00	2.828E+01	3.839E+01	5.804E+01	4.574E+00	1.350E+00	1.573E+00	2.828E+01	1.240E+02	6.364E+01
Z	3	1	1	1	1	1	3	1	1	1	1	1
Z MAXIMUM	-7.422E-01	2.582E-01	-1.047E+01	5.412E+02	4.107E+02	1.111E+03	-7.422E-01	2.582E+01	-1.047E+01	5.412E+02	-1.593E+02	-2.457E+02
GRAND TOTAL	4.936E+00	2.967E-01	1.344E+01	6.296E+02	4.732E+02	1.260E+03	4.936E+00	2.967E+01	1.344E+01	6.296E+02	3.484E+02	4.050E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (3)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	3	2	2	1	2	2	2	2	2	1	1	2
X MAXIMUM	1.418E+00	-5.952E-00	4.727E+00	-2.867E+02	-1.989E+02	-2.469E+02	-2.657E+00	-5.341E+00	4.727E+00	-1.475E+02	2.419E+02	-1.654E+02
Y	3	3	4	1	3	3	3	3	4	3	3	3
Y MAXIMUM	4.523E+00	-9.083E-01	5.932E-01	2.828E+01	6.364E+01	-1.240E+02	3.831E+00	-2.570E+00	5.932E-01	2.386E+01	5.195E+01	-4.891E+01
Z	3	1	1	1	1	1	2	1	1	1	1	1
Z MAXIMUM	-7.339E-01	-2.570E-00	-5.097E+00	5.412E+02	-2.457E+02	1.593E+02	-1.082E+00	-2.620E+00	-5.097E+00	3.727E+02	-5.510E+02	1.968E+02
GRAND TOTAL	4.881E+00	7.318E-00	7.875E+00	6.296E+02	4.050E+02	3.484E+02	5.056E+00	7.198E+00	7.875E+00	4.279E+02	6.528E+02	3.043E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (3)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	2	2	1	1	1
X MAXIMUM	-4.494E+00	-3.918E-00	4.727E+00	-6.326E+01	3.828E+02	-1.230E+02
Y	3	3	4	3	1	3
Y MAXIMUM	2.556E+00	-3.840E-00	5.932E-01	4.863E+01	-3.776E+01	-5.263E+01
Z	2	1	1	1	1	1
Z MAXIMUM	-1.832E+00	-2.271E+00	-5.097E+00	1.194E+02	-7.225E+02	2.321E+02
GRAND TOTAL	5.915E+00	6.511E-00	7.875E+00	1.421E+02	6.284E+02	2.849E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (4)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	2	2	1	1	1	2	2	2	1	1	1
X MAXIMUM	-8.183E+00	-7.744E+00	8.136E+00	-6.326E+01	3.828E+02	-1.230E+02	-1.049E+01	-4.038E+00	8.136E+00	6.042E+01	3.345E+02	-1.180E+02

Y	3	3	3	3	1	3	5	3	3	1	5	
Y MAXIMUM	2.145E+00	-3.522E+00	-4.901E-01	4.063E+01	-3.775E+01	-5.263E+01	6.468E-01	-4.075E+00	-4.901E-01	4.657E+01	-3.350E+01	-1.301E+01
Z	2	2	1	1	1	1	2	2	1	1	1	
Z MAXIMUM	-3.316E+00	-3.154E+00	5.205E+00	1.194E+02	-7.225E+02	2.321E+02	-4.271E+00	-1.645E+00	5.205E+00	-1.518E+02	-6.409E+02	2.227E+02
GRAND TOTAL	9.300E+00	9.239E+00	1.063E+01	1.421E+02	8.284E+02	2.899E+02	1.157E+01	6.154E+00	1.063E+01	1.606E+02	7.265E+02	2.542E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (4)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	3	2	1	1	1
X MAXIMUM	-1.123E+01	-1.257E+00	8.136E+00	1.966E+02	2.446E+02	-1.177E+02
Y	3	3	3	3	1	3
Y MAXIMUM	-9.737E-01	-4.007E+00	-4.901E-01	4.640E+01	-2.413E+01	6.058E+01
Z	2	3	1	1	1	1
Z MAXIMUM	-4.575E+00	6.502E-01	5.205E+00	-3.711E+02	-4.617E+02	2.222E+02
GRAND TOTAL	1.238E+01	4.305E+00	1.063E+01	4.237E+02	5.419E+02	2.613E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (5)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	3	2	1	1	1	2	3	2	1	2	1
X MAXIMUM	-1.551E+01	7.189E-01	-9.155E+00	1.966E+02	-2.446E+02	1.177E+02	-1.551E+01	7.189E-01	-9.155E+00	1.966E+02	-2.697E+02	1.132E+02
Y	3	3	1	3	1	3	3	3	1	3	3	3
Y MAXIMUM	-4.892E-01	2.293E+00	-6.311E-01	4.640E+01	2.413E+01	-6.058E+01	-4.892E-01	2.293E+00	-6.311E-01	4.640E+01	2.112E+01	-1.015E+02
Z	2	1	1	1	1	1	2	1	1	1	1	1
Z MAXIMUM	-6.317E+00	-4.768E-01	-1.208E+01	-3.711E+02	4.617E+02	-2.222E+02	-6.317E+00	-4.768E-01	-1.208E+01	-3.711E+02	2.462E+02	-2.137E+02
GRAND TOTAL	1.780E+01	2.628E+00	1.688E+01	4.237E+02	5.419E+02	2.613E+02	1.780E+01	2.628E+00	1.688E+01	4.237E+02	4.207E+02	2.654E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (6)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	5	2	1	2	1	2	5	2	1	2	1
X MAXIMUM	-1.880E+01	-6.536E-01	-9.130E+00	1.966E+02	-2.897E+02	1.132E+02	-1.880E+01	-6.536E-01	-9.130E+00	1.966E+02	-4.527E+02	1.016E+02
Y	1	3	1	3	3	3	1	3	1	3	3	3
Y MAXIMUM	4.197E-01	3.913E-01	-8.365E-01	4.640E+01	2.112E+01	-1.015E+02	4.197E-01	3.913E-01	-8.365E-01	4.640E+01	1.937E+01	-1.085E+02
Z	1	1	1	1	1	1	1	1	1	1	2	1
Z MAXIMUM	8.031E+00	-1.231E+00	-1.601E+01	-3.711E+02	2.462E+02	-2.137E+02	8.031E+00	-1.231E+00	-1.601E+01	-3.711E+02	-1.843E+02	-1.917E+02
GRAND TOTAL	2.226E+01	1.652E+00	2.066E+01	4.237E+02	4.207E+02	2.654E+02	2.226E+01	1.652E+00	2.066E+01	4.237E+02	4.914E+02	2.459E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (7)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(L)	VY(L)	VZ(L)	TX(L)	MY(L)	MZ(L)
X	2	1	1	1	1	2	2	1	1	1	3	2
X MAXIMUM	-2.307E+01	1.022E+01	-1.261E+00	1.966E+02	1.016E+02	4.527E+02	-2.448E+01	1.181E+01	-1.261E+00	2.170E+02	-2.542E+01	5.041E+02
Y	1	1	3	3	3	3	4	1	3	1	3	1
Y MAXIMUM	6.090E-01	-1.008E+00	2.658E+00	4.640E+01	-1.085E+02	1.937E+01	4.730E-01	-1.165E+00	2.658E+00	-2.141E+01	-6.107E+01	1.775E+01
Z	1	1	1	1	1	2	2	1	1	1	3	1
Z MAXIMUM	1.165E+01	-1.929E+01	2.381E+00	-3.711E+02	-1.917E+02	1.843E+02	-9.970E+00	-2.228E+01	2.381E+00	-4.697E+02	1.316E+01	3.397E+02
GRAND TOTAL	2.820E+01	2.367E+01	3.919E+00	4.237E+02	2.459E+02	4.914E+02	2.674E+01	2.531E+01	3.919E+00	4.644E+02	6.695E+01	6.668E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (7)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	1	1	1	1	2
X MAXIMUM	-2.217E+01	1.159E+01	-1.261E+00	1.974E+02	-9.959E+01	4.201E+02
Y	4	1	3	1	3	1
Y MAXIMUM	6.053E-01	-1.144E+00	2.658E+00	-1.948E+01	-4.131E+01	3.442E+01
Z	2	1	1	1	1	1
Z MAXIMUM	-9.029E+00	-2.188E+01	2.381E+00	-3.727E+02	1.860E+02	6.586E+02
GRAND TOTAL	2.476E+01	2.725E+01	3.919E+00	4.226E+02	2.180E+02	8.735E+02

EL TYPE (3/D P I P E) / / / ELEMENT NUMBER (8)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	2	2	1	1	1	2	2	2	1	1	1	1
X MAXIMUM	-2.361E+01	1.251E+01	-1.557E+00	1.974E+02	-4.959E+01	4.201E+02	-1.702E+01	2.060E+01	-1.557E+00	1.400E+02	-1.692E+02	-5.141E+02
Y	4	1	3	1	3	1	1	1	3	3	3	1
Y MAXIMUM	0.710E-01	-1.221E+00	4.344E+00	-1.948E+01	-4.131E+01	3.442E+01	-0.897E-01	-1.036E+00	4.344E+00	-1.026E+01	2.817E+01	5.072E+01
Z	2	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	-9.615E+00	-2.336E+01	2.939E+00	-3.727E+02	1.880E+02	0.506E+02	-1.320E+01	-1.482E+01	2.939E+00	-2.042E+02	3.571E+02	4.704E+02
GRAND TOTAL	2.608E+01	2.973E+01	5.706E+00	4.226E+02	2.180E+02	8.735E+02	2.376E+01	3.162E+01	5.706E+00	3.001E+02	4.058E+02	1.117E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (8)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	2	1	1	1	1
X MAXIMUM	1.048E+01	2.554E+01	-1.557E+00	5.262E+01	-2.500E+02	-0.407E+02
Y	1	1	3	3	3	1
Y MAXIMUM	-1.034E+00	-0.931E-01	4.344E+00	5.910E+00	4.336E+01	0.320E+01
Z	1	1	1	1	1	1
Z MAXIMUM	-1.978E+01	-1.326E+01	2.939E+00	-9.933E+01	4.719E+02	1.209E+03
GRAND TOTAL	2.401E+01	3.163E+01	5.706E+00	1.130E+02	5.437E+02	1.380E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (9)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	3	2	1	1	1	1	3	2	1	1	1
X MAXIMUM	1.048E+01	-1.766E+00	2.778E+01	5.262E+01	0.407E+02	-2.500E+02	1.048E+01	-1.766E+00	2.778E+01	5.262E+01	7.954E+02	-2.857E+02
Y	1	3	3	3	1	3	1	3	3	3	1	3
Y MAXIMUM	-1.034E+00	-5.632E+00	-8.063E-01	5.910E+00	-0.320E+01	4.336E+01	-1.034E+00	-5.632E+00	-8.063E-01	5.910E+00	-7.847E+01	2.088E+02
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	-1.978E+01	-3.285E+00	-1.425E+01	-9.933E+01	-1.209E+03	4.719E+02	-1.978E+01	-3.285E+00	-1.425E+01	-9.933E+01	-1.501E+03	5.392E+02
GRAND TOTAL	2.402E+01	7.116E+00	3.410E+01	1.130E+02	1.380E+03	5.437E+02	2.402E+01	7.116E+00	3.410E+01	1.130E+02	1.871E+03	0.501E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (10)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	3	2	1	1	1	1	3	2	1	1	1
X MAXIMUM	1.048E+01	-1.867E+00	2.836E+01	5.262E+01	7.954E+02	-2.857E+02	1.048E+01	-1.867E+00	2.836E+01	5.262E+01	1.303E+03	-3.222E+02
Y	1	3	3	3	1	3	1	3	3	3	1	3
Y MAXIMUM	-1.034E+00	-5.953E+00	-8.533E-01	5.910E+00	-7.847E+01	2.088E+02	-1.034E+00	-5.953E+00	-8.533E-01	5.910E+00	-9.396E+01	3.309E+02
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	-1.978E+01	-3.361E+00	-1.447E+01	-9.933E+01	-1.501E+03	5.392E+02	-1.978E+01	-3.361E+00	-1.447E+01	-9.933E+01	-1.798E+03	0.081E+02
GRAND TOTAL	2.402E+01	7.472E+00	3.478E+01	1.130E+02	1.871E+03	0.501E+02	2.402E+01	7.472E+00	3.478E+01	1.130E+02	2.477E+03	7.745E+02

NOTE:

CIRCLED NUMBERS ARE
ELEMENT NUMBERS.

BENCHMARK PROBLEM NO. 2

Figure 2.1

BENCHMARK PROBLEM NO. 2

Figure 2.2

DYNAMIC RESPONSE OF A COFFEE TARIFF RESPONSE SPECTRUM ANALYSIS

CONTROL INFORMATION

NUMBER OF NODAL POINTS * 18
 NUMBER OF ELEMENT TYPES * 1
 NUMBER OF LOAD CASES * 0
 NUMBER OF FREQUENCIES * 5
 ANALYSIS CODE (NDYNI) * 3
 EQ.0. STATIC
 EQ.1. MODAL EXTRACTION
 EQ.2. FORCED RESPONSE
 EQ.3. RESPONSE SPECTRUM
 EQ.4. DIRECT INTEGRATION
 SOLUTION MODE (MOOFX) * 0
 EQ.0. EXECUTION
 EQ.1. DATA CHECK
 NUMBER OF SUBSPACE
 ITERATION VECTORS (NADI) * 0
 EQUATIONS PER BLOCK * 0
 TAPEIO SAVE FLAG (NIDSV) * -0

NODAL POINT INPUT DATA

NODE NUMBER	BOUNDARY CONDITION CODES						NODAL POINT COORDINATES				
	X	Y	Z	XX	YY	ZZ	X	Y	Z	T	
1	0	0	0	0	0	0	0.000	-30.000	0.000	-0	-0.000
2	0	0	0	0	0	0	27.250	-30.000	0.000	-0	-0.000
3	0	0	0	0	0	0	27.250	-30.000	17.250	-0	-0.000
4	0	0	0	0	0	0	0.000	-30.000	17.250	-0	-0.000
5	0	0	0	0	0	0	0.000	18.625	17.250	-0	-0.000
6	0	0	0	0	0	0	0.000	18.625	8.625	-0	-0.000
7	0	0	0	0	0	0	0.000	18.625	0.000	-0	-0.000
8	0	0	0	0	0	0	8.625	18.625	0.000	-0	-0.000
9	0	0	0	0	0	0	18.625	18.625	0.000	-0	-0.000
10	0	0	0	0	0	0	27.250	18.625	0.000	-0	-0.000
11	0	0	0	0	0	0	27.250	18.625	8.625	-0	-0.000
12	0	0	0	0	0	0	27.250	18.625	17.250	-0	-0.000
13	0	0	0	0	0	0	18.625	18.625	17.250	-0	-0.000
14	0	0	0	0	0	0	8.625	18.625	17.250	-0	-0.000
15	1	1	1	1	1	1	0.000	-80.000	0.000	-0	-0.000
16	1	1	1	1	1	1	27.250	-80.000	0.000	-0	-0.000
17	1	1	1	1	1	1	27.250	-80.000	17.250	-0	-0.000
18	1	1	1	1	1	1	0.000	-80.000	17.250	-0	-0.000

GENERATED NODAL DATA

NODE NUMBER	BOUNDARY CONDITION CODES						NODAL POINT COORDINATES				
	X	Y	Z	XX	YY	ZZ	X	Y	Z	T	
1	0	0	0	0	0	0	0.000	-30.000	0.000	-0.000	
2	0	0	0	0	0	0	27.250	-30.000	0.000	-0.000	
3	0	0	0	0	0	0	27.250	-30.000	17.250	-0.000	
4	0	0	0	0	0	0	0.000	-30.000	17.250	-0.000	
5	0	0	0	0	0	0	0.000	18.625	17.250	-0.000	
6	0	0	0	0	0	0	0.000	18.625	8.625	-0.000	
7	0	0	0	0	0	0	0.000	18.625	0.000	-0.000	
8	0	0	0	0	0	0	8.625	18.625	0.000	-0.000	
9	0	0	0	0	0	0	18.625	18.625	0.000	-0.000	
10	0	0	0	0	0	0	27.250	18.625	0.000	-0.000	

	0	0	0	0	0	0	8.625	18.625	17.250	-0.000
							0.000	-80.000	0.000	-0.000
16	1	1	1	1	1	1	27.250	-80.000	0.000	-0.000
17	1	1	1	1	1	1	27.250	-00.000	17.250	-0.000
18	1	1	1	1	1	1	0.000	-80.000	17.250	-0.000

PIPE ELEMENT INPUT DATA

CONTROL INFORMATION

NUMBER OF PIPE ELEMENTS • 18
 NUMBER OF MATERIAL SETS • 1
 MAXIMUM NUMBER OF MATERIAL
 TEMPERATURE INPUT POINTS • 1
 NUMBER OF SECTION PROPERTY SETS • 1
 NUMBER OF BRANCH POINT NODES • 1
 MAXIMUM NUMBER OF TANGENTS
 COMMON TO A BRANCH POINT • 4
 FLAG FOR NEGLECTING AXIAL
 DEFORMATIONS IN BEND ELEMENTS • 0
 (EQ.1, NEGLECT)

MATERIAL PROPERTY TABLES

MATERIAL NUMBER • 1 11
 NUMBER OF
 TEMPERATURE POINTS • 1 11
 IDENTIFICATION • 1
 1 0.00 27900000.0 .300 0.

SECTION PROPERTY TABLE

SECTION NUMBER	OUTSIDE DIAMETER	WALL THICKNESS	SHAPE FACTOR FOR SHEAR	WEIGHT/ UNIT LENGTH	MASS/ UNIT LENGTH	DESCRIPTION
1	2.375	.1540	-0.0000	0.	0.	

ELEMENT LOAD CASE MULTIPLIERS

	CASE A	CASE B	CASE C	CASE D
X-DIRECTION GRAVITY	-0.000	-0.000	-0.000	-0.000
Y-DIRECTION GRAVITY	-0.000	-0.000	-0.000	-0.000
Z-DIRECTION GRAVITY	-0.000	-0.000	-0.000	-0.000
THERMAL DISTORTION	-0.000	-0.000	-0.000	-0.000
PRESSURE DISTORTION	-0.000	-0.000	-0.000	-0.000

PIPE ELEMENT INPUT DATA

ELEMENT NUMBER	ELEMENT TYPE	NODE -I	NODE -J	MATL. NUMBER	SECTION NUMBER	REFERENCE TEMPERATURE (BEND RADIUS)	INTERNAL PRESSURE (THIRD POINT)	D I R E C T I O N C O S I N E S			NODE INCRMENT (HALL FRACTION)	INPUT TAG
								A1YX)	A1YY)	A1YZ)		
								(X3- ORDINATE)	(Y3- ORDINATE)	(Z3- ORDINATE)		
1	TANGENT	15	1	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	11
2	TANGENT	1	7	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	11
3	TANGENT	7	6	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	11
4	TANGENT	6	5	1	1	-0.00	-0.00	0.0000	-0.0000	-0.0000	1	11
5	TANGENT	5	4	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	11
6	TANGENT	4	18	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	11
7	TANGENT	16	2	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	11
8	TANGENT	2	10	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	11
9	TANGENT	10	11	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	11
10	TANGENT	11	12	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	11
11	TANGENT	12	3	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	11
12	TANGENT	3	17	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	11
13	TANGENT	12	13	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	11
14	TANGENT	13	14	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	11
15	TANGENT	14	5	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	11
16	TANGENT	7	8	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	11
17	TANGENT	8	9	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	11
18	TANGENT	9	10	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	11

NODAL LOADS (STATIC) OR MASSES (DYNAMIC)

NODE NUMBER	LOAD CASE	X-AXIS FORCE	Y-AXIS FORCE	Z-AXIS FORCE	X-AXIS MOMENT	Y-AXIS MOMENT	Z-AXIS MOMENT
1	-0	.44700E-01	.44700E-01	.44700E-01	-0.	-0.	-0.
2	-0	.44700E-01	.44700E-01	.44700E-01	-0.	-0.	-0.
3	-0	.44700E-01	.44700E-01	.44700E-01	-0.	-0.	-0.
4	-0	.44700E-01	.44700E-01	.44700E-01	-0.	-0.	-0.
5	-0	.43270E-01	.43270E-01	.43270E-01	-0.	-0.	-0.
6	-0	.89400E-02	.89400E-02	.89400E-02	-0.	-0.	-0.
7	-0	.43270E-01	.43270E-01	.43270E-01	-0.	-0.	-0.
8	-0	.89400E-02	.89400E-02	.89400E-02	-0.	-0.	-0.
9	-0	.89400E-02	.89400E-02	.89400E-02	-0.	-0.	-0.
10	-0	.43270E-01	.43270E-01	.43270E-01	-0.	-0.	-0.
11	-0	.89400E-02	.89400E-02	.89400E-02	-0.	-0.	-0.
12	-0	.43270E-01	.43270E-01	.43270E-01	-0.	-0.	-0.
13	-0	.89400E-02	.89400E-02	.89400E-02	-0.	-0.	-0.
14	-0	.89400E-02	.89400E-02	.89400E-02	-0.	-0.	-0.

STRUCTURE LOAD CASE	ELEMENT A	LOAD B	MULTIPLIER C	D
1	-0.000	-0.000	-0.000	-0.000

PRINT OF FREQUENCIES

MODE NUMBER	CIRCULAR FREQUENCY (RAD/SEC)	FREQUENCY CYCLES/SEC	PERIOD (SEC)
1	.5474E+02	.8712E+01	.1148E+00
2	.5533E+02	.8806E+01	.1136E+00
3	.1100E+03	.1751E+02	.5712E-01
4	.2536E+03	.4037E+02	.2477E-01
5	.2615E+03	.4163E+02	.2402E-01

MODAL ANALYSIS

MODE NUMBER 1
FREQUENCY = 8.71107 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	9.57401E-01	2.06221E-03	1.85150E-06	4.57369E-08	9.12521E-06	-2.79462E-02
2	9.57401E-01	-2.06221E-03	-1.15249E-06	-2.54470E-08	9.12522E-06	-2.79462E-02
3	9.57401E-01	-2.06221E-03	1.85145E-06	4.57354E-08	-9.12520E-06	-2.79462E-02
4	9.57401E-01	2.06221E-03	-1.15244E-06	-2.54455E-08	-9.12522E-06	-2.79462E-02
5	1.92035E+00	4.06727E-03	-7.76167E-07	5.72030E-08	-1.79995E-05	-4.62897E-03
6	1.92054E+00	4.06775E-03	6.92336E-07	-8.21298E-11	8.31443E-12	-4.62897E-03
7	1.92035E+00	4.06727E-03	2.16083E-06	-5.44550E-08	1.79995E-05	-4.62897E-03
8	1.92037E+00	-7.41379E-03	-3.55664E-05	-1.91138E-08	-4.07819E-06	7.14639E-04
9	1.92037E+00	7.41380E-03	3.69514E-05	2.18616E-08	-4.07815E-06	7.14639E-04
10	1.92035E+00	-4.06727E-03	-7.76267E-07	5.72029E-08	1.79995E-05	-4.62897E-03
11	1.92054E+00	-4.06775E-03	6.92236E-07	-8.21072E-11	-6.98041E-13	-4.62897E-03
12	1.92035E+00	-4.06727E-03	2.16073E-06	-5.44552E-08	-1.79995E-05	-4.62897E-03
13	1.92037E+00	7.41379E-03	-3.55664E-05	-1.91138E-08	4.07820E-06	7.14639E-04
14	1.92037E+00	-7.41380E-03	3.69515E-05	2.18617E-08	4.07816E-06	7.14639E-04

MODAL ANALYSIS

MODE NUMBER 1
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X=	Y=	Z=	X=	Y=	Z=
	TRANSLATION	TRANSLATION	TRANSLATION	ROTATION	ROTATION	ROTATION
1	4.98505E-01	1.07377E-03	9.64051E-07	2.38145E-08	4.75137E-06	-1.45512E-02
2	4.98505E-01	-1.07376E-03	-6.00348E-07	-1.32499E-08	4.75138E-06	-1.45512E-02
3	4.98505E-01	-1.07377E-03	9.64025E-07	2.38138E-08	-4.75137E-06	-1.45512E-02
4	4.98505E-01	1.07376E-03	-6.00321E-07	-1.32491E-08	-4.75137E-06	-1.45512E-02
5	9.99901E-01	2.11777E-03	-4.04140E-07	2.97848E-08	-9.37208E-06	-2.41024E-03
6	1.00000E+00	2.11802E-03	3.60490E-07	-4.27638E-11	4.32921E-12	-2.41024E-03
7	9.99901E-01	2.11777E-03	1.12512E-06	-2.83540E-08	9.37207E-06	-2.41024E-03
8	9.99909E-01	-3.86026E-03	-1.85189E-05	-9.95227E-09	-2.12346E-06	3.72103E-04
9	9.99909E-01	3.86026E-03	1.92401E-05	1.13830E-08	-2.12344E-06	3.72103E-04
10	9.99901E-01	-2.11777E-03	-4.04142E-07	2.97847E-08	9.37209E-06	-2.41024E-03
11	1.00000E+00	-2.11802E-03	3.60438E-07	-4.27521E-11	-3.63460E-13	-2.41024E-03
12	9.99901E-01	-2.11777E-03	1.12508E-06	-2.83541E-08	-9.37207E-06	-2.41024E-03
13	9.99909E-01	3.86026E-03	-1.85189E-05	-9.95230E-09	2.12346E-06	3.72103E-04
14	9.99909E-01	-3.86026E-03	1.92401E-05	1.13831E-08	2.12344E-06	3.72103E-04
15	0.	0.	0.	0.	0.	0.
16	0.	0.	0.	0.	0.	0.
17	0.	0.	0.	0.	0.	0.
18	0.	0.	0.	0.	0.	0.

MODAL ANALYSIS

MODE NUMBER 2
FREQUENCY 8.80024 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X=	Y=	Z=	X=	Y=	Z=
	TRANSLATION	TRANSLATION	TRANSLATION	ROTATION	ROTATION	ROTATION
1	-9.96853E-06	-1.35970E-03	-9.66873E-01	-2.80852E-02	2.22923E-05	2.51739E-07
2	1.00868E-05	-1.35970E-03	-9.66873E-01	-2.80852E-02	-2.22923E-05	-2.55193E-07
3	-9.96850E-06	1.35970E-03	-9.66873E-01	-2.80852E-02	-2.22923E-05	2.51738E-07
4	1.00869E-05	1.35970E-03	-9.66873E-01	-2.80852E-02	2.22923E-05	-2.55193E-07
5	1.29226E-05	6.62626E-03	-1.91651E+00	-3.80356E-03	4.39715E-05	2.49156E-07
6	1.18703E-07	2.51415E-10	-1.91652E+00	2.27336E-04	-1.24515E-05	-2.86103E-10
7	-1.26853E-05	-6.62626E-03	-1.91651E+00	-3.80356E-03	4.39715E-05	-2.49728E-07
8	-4.58004E-06	-6.62910E-03	-1.91717E+00	-3.80356E-03	5.46972E-05	-2.24828E-07
9	4.81737E-06	-6.62910E-03	-1.91717E+00	-3.80356E-03	-5.46972E-05	2.24917E-07
10	1.29226E-05	-6.62626E-03	-1.91651E+00	-3.80356E-03	-4.39715E-05	2.49156E-07
11	1.18703E-07	-2.51417E-10	-1.91652E+00	2.27336E-04	1.24515E-05	-2.86103E-10
12	-1.26852E-05	6.62626E-03	-1.91651E+00	-3.80356E-03	-4.39715E-05	-2.49728E-07
13	-4.57998E-06	6.62910E-03	-1.91717E+00	-3.80356E-03	-5.46972E-05	-2.24828E-07
14	4.81742E-06	6.62910E-03	-1.91717E+00	-3.80356E-03	5.46972E-05	2.24917E-07

MODAL ANALYSIS

MODE NUMBER 2
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	5.19461E-06	1.75243E-03	5.04323E-01	1.46493E-02	-1.16277E-05	-1.31308E-07
2	-5.26132E-06	1.75243E-03	5.04323E-01	1.46493E-02	1.16277E-05	1.33109E-07
3	5.19459E-06	-1.75243E-03	5.04323E-01	1.46493E-02	1.16277E-05	-1.31307E-07
4	-5.26134E-06	-1.75243E-03	5.04323E-01	1.46493E-02	-1.16277E-05	1.33109E-07
5	-6.74048E-06	-3.45628E-03	9.99658E-01	1.98394E-03	-2.29356E-05	-1.24460E-07
6	-6.19158E-06	-1.31139E-10	9.99662E-01	-1.18579E-04	6.49475E-06	1.49232E-10
7	6.61666E-06	3.45628E-03	9.99658E-01	1.98394E-03	-2.29357E-05	1.30259E-07
8	2.38896E-06	3.45776E-03	1.00000E+00	1.98394E-03	-2.85302E-05	1.17271E-07
9	-2.51275E-06	3.45776E-03	1.00000E+00	1.98394E-03	2.85302E-05	-1.17317E-07
10	-6.74045E-06	3.45628E-03	9.99658E-01	1.98394E-03	2.29356E-05	-1.29960E-07
11	-6.19158E-06	1.31140E-10	9.99662E-01	-1.18579E-04	-6.49476E-06	1.49232E-10
12	6.61663E-06	-3.45628E-03	9.99658E-01	1.98394E-03	2.29356E-05	1.30259E-07
13	2.38893E-06	-3.45776E-03	1.00000E+00	1.98394E-03	2.85302E-05	1.17271E-07
14	-2.51278E-06	-3.45776E-03	1.00000E+00	1.98394E-03	-2.85302E-05	-1.17317E-07
15	0.	0.	0.	0.	0.	0.
16	0.	0.	0.	0.	0.	0.
17	0.	0.	0.	0.	0.	0.
18	0.	0.	0.	0.	0.	0.

MODAL ANALYSIS

MODE NUMBER 3
FREQUENCY 17.5074 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

MODE NUMBER	X=	Y=	Z=	X=	Y=	Z=
	TRANSLATION	TRANSLATION	TRANSLATION	ROTATION	ROTATION	ROTATION
1	-6.03147E-01	1.14969E-03	9.70100E-01	2.46567E-02	6.03597E-02	1.53263E-02
2	-6.03147E-01	-1.14969E-03	-9.70100E-01	-2.46567E-02	6.03597E-02	1.53263E-02
3	6.03147E-01	1.14969E-03	-9.70100E-01	-2.46567E-02	6.03597E-02	-1.53263E-02
4	6.03147E-01	-1.14969E-03	9.70100E-01	2.46567E-02	6.03597E-02	-1.53263E-02
5	1.03461E+00	-2.26675E-03	1.66517E+00	1.85501E-03	1.19060E-01	-1.12523E-03
6	-9.82467E-11	-1.48672E-13	1.66520E+00	-2.59441E-04	1.20248E-01	1.68765E-13
7	-1.03461E+00	2.26675E-03	1.66517E+00	1.85501E-03	1.19060E-01	1.12523E-03
8	-1.03464E+00	3.48884E-03	6.17688E-01	6.80738E-04	1.22958E-01	-4.68575E-04
9	-1.03464E+00	-3.48884E-03	-6.17688E-01	-6.80738E-04	1.22958E-01	-4.68575E-04
10	-1.03461E+00	-2.26675E-03	-1.66517E+00	-1.85501E-03	1.19060E-01	1.12523E-03
11	-9.83382E-11	1.48672E-13	-1.66520E+00	2.59441E-04	1.20248E-01	1.68765E-13
12	1.03461E+00	2.26675E-03	-1.66517E+00	-1.85501E-03	1.19060E-01	-1.12523E-03
13	1.03464E+00	3.48884E-03	-6.17688E-01	-6.80738E-04	1.22958E-01	4.68575E-04
14	1.03464E+00	-3.48884E-03	6.17688E-01	6.80738E-04	1.22958E-01	4.68575E-04

MODAL ANALYSIS

MODE NUMBER 3
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X=	Y=	Z=	X=	Y=	Z=
	TRANSLATION	TRANSLATION	TRANSLATION	ROTATION	ROTATION	ROTATION
1	-3.62207E-01	6.90422E-04	5.82574E-01	1.48071E-02	3.62478E-02	9.20388E-03
2	-3.62207E-01	-6.90422E-04	-5.82574E-01	-1.48071E-02	3.62478E-02	9.20388E-03
3	3.62207E-01	6.90422E-04	-5.82574E-01	-1.48071E-02	3.62478E-02	-9.20388E-03
4	3.62207E-01	-6.90422E-04	5.82574E-01	1.48071E-02	3.62478E-02	-9.20388E-03
5	6.21313E-01	-1.36125E-03	9.99984E-01	1.11399E-03	7.14988E-02	-6.75732E-04
6	-5.90001E-11	-8.92822E-14	1.00000E+00	-1.55802E-04	7.22126E-02	1.01281E-13
7	-6.21313E-01	1.36125E-03	9.99984E-01	1.11399E-03	7.14988E-02	6.75732E-04
8	-6.21313E-01	2.09515E-03	3.70940E-01	4.08803E-04	7.38399E-02	-2.81393E-04
9	-6.21313E-01	-2.09515E-03	-3.70940E-01	-4.08803E-04	7.38399E-02	-2.81393E-04
10	-6.21313E-01	-1.36125E-03	-9.99984E-01	-1.11399E-03	7.14988E-02	6.75732E-04
11	-5.90550E-11	8.91904E-14	-1.00000E+00	1.55802E-04	7.22126E-02	1.01348E-13
12	6.21313E-01	1.36125E-03	-9.99984E-01	-1.11399E-03	7.14988E-02	-6.75732E-04
13	6.21313E-01	2.09515E-03	-3.70940E-01	-4.08803E-04	7.38399E-02	2.81393E-04
14	6.21313E-01	-2.09515E-03	3.70940E-01	4.08803E-04	7.38399E-02	2.81393E-04
15	0.	0.	0.	0.	0.	0.
16	0.	0.	0.	0.	0.	0.
17	0.	0.	0.	0.	0.	0.
18	0.	0.	0.	0.	0.	0.

MODAL ANALYSIS I 8

MODE NUMBER 4
FREQUENCY = 40.366 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X=	Y=	Z=	X=	Y=	Z=
	TRANSLATION	TRANSLATION	TRANSLATION	ROTATION	ROTATION	ROTATION
1	-2.36247E+00	-2.34097E+04	-4.13419E-05	-1.43475E-07	-2.36729E-07	8.20167E-03
2	2.36247E+00	-2.34097E+04	-4.13419E-05	-1.43475E-07	2.36729E-07	-8.20167E-03
3	2.36247E+00	-2.34097E+04	4.13419E-05	1.43475E-07	-2.36729E-07	-8.20167E-03
4	-2.36247E+00	-2.34097E+04	4.13419E-05	1.43475E-07	2.36729E-07	8.20167E-03
5	-1.36755E-03	-4.60664E-04	1.46837E-08	-7.09631E-07	4.66948E-07	-4.05301E-02
6	-1.37129E-03	-4.64308E-04	1.33140E-14	2.70195E-16	2.97188E-15	-4.05301E-02
7	-1.36755E-03	-4.60664E-04	-1.46830E-08	7.09631E-07	-4.66948E-07	-4.05301E-02
8	-5.01883E-04	-2.40431E-01	2.74993E-06	7.09631E-07	-1.72519E-07	-1.49751E-02
9	5.01883E-04	-2.40431E-01	2.74993E-06	7.09631E-07	1.72519E-07	1.49751E-02
10	1.36755E-03	-4.60664E-04	-1.46830E-08	7.09631E-07	4.66948E-07	4.05301E-02
11	1.37129E-03	-4.64308E-04	-6.44413E-15	2.64640E-16	3.02725E-15	4.05301E-02
12	1.36755E-03	-4.60664E-04	1.46830E-08	-7.09631E-07	-4.66948E-07	4.05301E-02
13	5.01883E-04	-2.40431E-01	-2.74993E-06	-7.09631E-07	-1.72519E-07	1.49751E-02
14	-5.01883E-04	-2.40431E-01	-2.74993E-06	-7.09631E-07	1.72519E-07	-1.49751E-02

MODAL ANALYSIS

MODE NUMBER 4
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	1.00000E+00	9.90898E-05	1.74994E-05	6.07308E-08	1.00204E-07	-3.47164E-03
2	-1.00000E+00	9.90898E-05	1.74994E-05	6.07308E-08	-1.00204E-07	3.47164E-03
3	-1.00000E+00	9.90898E-05	-1.74994E-05	-6.07308E-08	1.00204E-07	3.47164E-03
4	1.00000E+00	9.90898E-05	-1.74994E-05	-6.07308E-08	-1.00204E-07	-3.47164E-03
5	5.78864E-04	1.94992E-04	-6.21537E-09	3.00376E-07	-1.97652E-07	1.71558E-02
6	5.80445E-04	1.96535E-04	-5.63562E-15	-1.14370E-16	-1.25795E-15	1.71558E-02
7	5.78864E-04	1.94992E-04	6.21536E-09	-3.00376E-07	1.97652E-07	1.71558E-02
8	2.12440E-04	1.01771E-01	-1.16401E-06	-3.00376E-07	7.30249E-08	6.33872E-03
9	-2.12440E-04	1.01771E-01	-1.16401E-06	-3.00376E-07	-7.30249E-08	-6.33872E-03
10	-5.78864E-04	1.94992E-04	6.21537E-09	-3.00376E-07	-1.97652E-07	-1.71558E-02
11	-5.80445E-04	1.96535E-04	2.72771E-15	-1.12018E-16	-1.28139E-15	-1.71558E-02
12	-5.78864E-04	1.94992E-04	-6.21537E-09	3.00376E-07	1.97652E-07	-1.71558E-02
13	-2.12440E-04	1.01771E-01	1.16401E-06	3.00376E-07	7.30249E-08	-6.33872E-03
14	2.12440E-04	1.01771E-01	1.16401E-06	3.00376E-07	-7.30249E-08	6.33872E-03
15	0.	0.	0.	0.	0.	0.
16	0.	0.	0.	0.	0.	0.
17	0.	0.	0.	0.	0.	0.
18	0.	0.	0.	0.	0.	0.

MODAL ANALYSIS

MODE NUMBER 9
FREQUENCY 41.6264 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X=	Y=	Z=	X=	Y=	Z=
	TRANSLATION	TRANSLATION	TRANSLATION	ROTATION	ROTATION	ROTATION
1	-4.67960E-05	6.98736E-05	2.36453E+00	5.84921E-03	-4.85179E-07	1.15822E-07
2	4.67960E-05	6.98736E-05	2.36453E+00	5.84921E-03	4.85179E-07	-1.15822E-07
3	4.67939E-05	6.98736E-05	-2.36453E+00	-5.84921E-03	-4.85179E-07	-1.15818E-07
4	-4.67938E-05	6.98736E-05	-2.36453E+00	-5.84921E-03	4.85179E-07	1.15818E-07
5	-3.06139E-08	1.37479E-04	-9.60379E-04	3.11645E-02	9.57016E-07	-6.16270E-07
6	-4.16331E-06	1.34714E-01	-8.35756E-13	-5.20915E-15	2.22110E-13	-6.16281E-07
7	-3.06172E-08	1.37479E-04	9.60379E-04	-3.11645E-02	-9.57016E-07	-6.16293E-07
8	-1.12370E-08	1.34466E-04	9.70496E-04	-3.11645E-02	-7.87350E-07	-1.65732E-07
9	1.12351E-08	1.34466E-04	9.70496E-04	-3.11645E-02	7.87350E-07	1.65732E-07
10	3.06153E-08	1.37479E-04	9.60379E-04	-3.11645E-02	9.57016E-07	6.16292E-07
11	4.16331E-06	1.34714E-01	2.80953E-13	-2.69887E-14	4.39303E-14	6.16281E-07
12	3.06158E-08	1.37479E-04	-9.60379E-04	3.11645E-02	-9.57016E-07	6.16270E-07
13	1.12365E-08	1.34466E-04	-9.70496E-04	3.11645E-02	-7.87350E-07	1.65723E-07
14	-1.12346E-08	1.34466E-04	-9.70496E-04	3.11645E-02	7.87350E-07	-1.65724E-07

MODAL ANALYSIS

MODE NUMBER 5
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

MODE NUMBER	X- TRANSLATION	Y- TRANSLATION	Z- TRANSLATION	X- ROTATION	Y- ROTATION	Z- ROTATION
1	-1.97908E-05	2.95507E-05	1.00000E+00	2.47373E-03	-2.05190E-07	4.89829E-08
2	1.97908E-05	2.95507E-05	1.00000E+00	2.47373E-03	2.05190E-07	-4.89829E-08
3	1.97899E-05	2.95507E-05	-1.00000E+00	-2.47373E-03	-2.05190E-07	-4.89813E-08
4	-1.97899E-05	2.95507E-05	-1.00000E+00	-2.47373E-03	2.05190E-07	4.89813E-08
5	-1.29471E-08	5.81422E-05	-4.06160E-04	1.31800E-02	4.04738E-07	-2.60630E-07
6	-1.76073E-06	5.69729E-02	-3.53455E-13	-2.20303E-15	9.39339E-14	-2.60635E-07
7	-1.29485E-08	5.81422E-05	4.06160E-04	-1.31800E-02	-4.04737E-07	-2.60640E-07
8	-4.75232E-09	5.68679E-05	4.10438E-04	-1.31800E-02	-3.32983E-07	-7.00907E-08
9	4.75150E-09	5.68679E-05	4.10438E-04	-1.31800E-02	3.32983E-07	7.00907E-08
10	1.29477E-08	5.81422E-05	4.06160E-04	-1.31800E-02	4.04738E-07	2.60640E-07
11	1.76073E-06	5.69729E-02	1.18819E-13	-1.14140E-14	1.85788E-14	2.60635E-07
12	1.29479E-08	5.81422E-05	-4.06160E-04	1.31800E-02	-4.04738E-07	2.60631E-07
13	4.75210E-09	5.68679E-05	-4.10438E-04	1.31800E-02	-3.32983E-07	7.00871E-08
14	-4.75128E-09	5.68679E-05	-4.10438E-04	1.31800E-02	3.32983E-07	-7.00872E-08
15	0.	0.	0.	0.	0.	0.
16	0.	0.	0.	0.	0.	0.
17	0.	0.	0.	0.	0.	0.
18	0.	0.	0.	0.	0.	0.

-99-

EIGENSOLUTION TIME LOG

EIGENSOLUTION ■ 1.35
PRINTING ■ .08

CASE 1

01 ION FACTORS

X = 1.0000 Y = .6667 Z = 1.0000

INDICATOR FOR DISPLACEMENT OR ACCELERATION SPECTRUM = 1

EQ.0 DISPLACEMENT
EQ.1 ACCELERATION IN IN./SEC.2
EQ.2 ACCELERATION IN GS

1 SPECTRA ARE ENTERED FOR CASE 1, RTAD= 2

CLUSTER FACTOR, CF = .10000

MODAL PARTICIPATION FACTORS

MODE	X-DIRECTION	Y-DIRECTION	Z-DIRECTION
1	.6066E+00	.4814E-16	.2194E-06
2	.3749E-07	-.9541E-17	-.6074E+00
3	-.3236E-10	.3448E-16	.6086E-11
4	-.2781E-13	-.8728E-02	-.9547E-15
5	.2142E-14	.2450E-02	.9942E-13

SPECTRUM TABLE (IMPERIAL VALLEY E.Q. ELCENTRO 1940 SE

NUMBER OF POINTS = 11
SCALE FACTOR = .10000E+01

INPUT POINT	PERIOD	SPECTRUM VALUE
1	.1678E+02	.1450E+03
2	.2460E+01	.3800E+03
3	.5400E+01	.7750E+03
4	.7100E+01	.7750E+03
5	.9100E+01	.4400E+03
6	.1140E+00	.1188E+00
7	.1410E+00	.1188E+00
8	.1720E+00	.7000E+03
9	.2000E+00	.8710E+03
10	.2500E+00	.8710E+03
11	.3230E+00	.4000E+03

CLUSTERING. +1 MEANS MODE I CLOSE TO I+1. -1, NOT.
1, -1, -1, 1, 0.

Solution 2a

Interspatial/intermodal combination

NODE DISPLACEMENTS / ROTATIONS							
NODE NUMBER	NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	TOTAL..	2.30252E-01	1.27420E-03	2.25121E-01	6.53420E-03	7.38496E-06	6.72097E-03
2	TOTAL..	2.30252E-01	1.27420E-03	2.25121E-01	6.53420E-03	7.38496E-06	6.72097E-03
3	TOTAL..	2.30252E-01	1.27420E-03	2.25121E-01	6.53420E-03	7.38496E-06	6.72097E-03
4	TOTAL..	2.30252E-01	1.27420E-03	2.25121E-01	6.53420E-03	7.38496E-06	6.72097E-03
5	TOTAL..	4.61837E-01	2.52097E-03	4.46230E-01	8.85610E-04	1.45668E-05	1.11330E-03
6	TOTAL..	4.61837E-01	2.52097E-03	4.46230E-01	8.85610E-04	1.45668E-05	1.11330E-03
7	TOTAL..	4.61837E-01	2.52097E-03	4.46230E-01	8.85610E-04	1.45668E-05	1.11330E-03
8	TOTAL..	4.61839E-01	3.32646E-03	4.46391E-01	8.85601E-04	1.37162E-05	1.71920E-04
9	TOTAL..	4.61839E-01	3.32647E-03	4.46391E-01	8.85602E-04	1.37161E-05	1.71920E-04
10	TOTAL..	4.61837E-01	2.52097E-03	4.46230E-01	8.85610E-04	1.45668E-05	1.11330E-03
11	TOTAL..	4.61837E-01	2.52097E-03	4.46230E-01	8.85610E-04	1.45668E-05	1.11330E-03
12	TOTAL..	4.61837E-01	2.52097E-03	4.46230E-01	8.85610E-04	1.45668E-05	1.11330E-03
13	TOTAL..	4.61839E-01	3.32646E-03	4.46391E-01	8.85601E-04	1.37162E-05	1.71920E-04
14	TOTAL..	4.61839E-01	3.32647E-03	4.46391E-01	8.85602E-04	1.37161E-05	1.71920E-04
15	TOTAL..	0.	0.	0.	0.	0.	0.
16	TOTAL..	0.	0.	0.	0.	0.	0.
17	TOTAL..	0.	0.	0.	0.	0.	0.
TAL..		0.	0.	0.	0.	0.	0.

OR ELEMENT, THE FOLLOWING INFORMATION IS PRINTED:

1. FOR EACH EARTH QUAKE DIRECTION, THE NUMBER OF THE MODE WITH THE LARGEST STRESS.
 2. THE VALUE OF THAT STRESS.
 3. IF REQUESTED, THE MODE BY MODE STRESSES FOR EACH EARTH QUAKE DIRECTION.
 4. THE RESULTANT FOR EACH EARTH QUAKE DIRECTION.
 5. THE GRAND TOTAL OF THE THREE EARTH QUAKE DIRECTIONS.
- (NOTE: THE X, Y, OR Z REFERS TO THE EARTH QUAKE DIRECTION.)

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (1)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	2.974E+02	2.490E+04	1.093E+02	6.271E+01	5.229E+03	1.156E+02	2.974E+02	2.490E+04	1.093E+02	6.271E+01	2.351E+02	3.390E+03
Y	4	5	4	4	4	5	4	5	4	4	4	5
Y MAXIMUM	4.400E+03	3.162E+02	1.188E+01	2.121E+06	3.005E+00	8.083E+01	4.400E+03	3.162E+02	1.188E+01	2.121E+06	2.674E+00	7.730E+01
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	4.640E+02	1.082E+02	1.503E+03	1.483E+00	5.434E+02	5.135E+03	4.640E+02	1.082E+02	1.503E+03	1.483E+00	1.579E+02	2.769E+02
GRAND TOTAL	7.664E+02	1.082E+02	1.093E+02	2.110E+00	5.229E+03	5.135E+03	7.664E+02	1.082E+02	1.093E+02	2.110E+00	2.352E+02	2.769E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (2)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	2.973E+02	2.392E+04	7.844E+01	6.271E+01	2.351E+02	3.390E+03	2.973E+02	2.392E+04	7.844E+01	6.271E+01	4.049E+03	1.502E+02
Y	4	5	4	4	4	5	4	5	4	4	4	5
Y MAXIMUM	4.379E+03	2.707E+02	9.419E+02	2.121E+06	2.874E+00	7.730E+01	4.379E+03	2.707E+02	9.419E+02	2.121E+06	1.707E+00	5.434E+01
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	4.644E+02	7.744E+01	1.185E+03	1.483E+00	1.574E+02	2.769E+02	4.644E+02	7.744E+01	1.185E+03	1.483E+00	7.341E+02	4.042E+03
GRAND TOTAL	7.662E+02	7.744E+01	7.844E+01	2.110E+00	2.352E+02	2.769E+02	7.662E+02	7.744E+01	7.844E+01	2.110E+00	4.049E+03	4.042E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (3)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	-1.228E+00	1.328E+02	-6.186E+00	-5.600E+06	1.736E+01	2.910E+02	-1.228E+00	1.328E+02	-6.186E+00	-5.600E+06	-3.600E+01	-8.542E+02
Y	5	5	4	5	4	5	5	5	4	5	4	5
Y MAXIMUM	-2.710E+02	3.344E+04	-1.236E+05	1.535E+10	2.178E+05	-5.434E+01	-2.710E+02	3.344E+04	-1.236E+05	1.535E+10	-8.483E+05	-5.463E+01
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	6.107E+00	4.687E+02	-6.560E+00	-9.621E+02	5.658E+01	4.042E+03	6.107E+00	4.687E+02	-6.560E+00	-9.621E+02	-1.302E+05	3.090E+08
GRAND TOTAL	7.334E+00	4.687E+02	1.275E+01	9.621E+02	7.394E+01	4.042E+03	7.334E+00	4.687E+02	1.275E+01	9.621E+02	3.600E+01	5.530E+01

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (4)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	-1.228E+00	-1.293E+02	6.186E+00	-5.602E+06	-3.600E+01	-8.542E+02	-1.228E+00	-1.293E+02	6.186E+00	-5.602E+06	1.736E+01	2.608E+02
Y	5	5	4	5	4	5	5	5	4	5	4	5
Y MAXIMUM	-2.710E+02	-3.344E+04	1.236E+05	1.535E+10	-8.483E+05	-5.463E+01	-2.710E+02	-3.344E+04	1.236E+05	1.535E+10	2.178E+05	-5.434E+01
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	-6.107E+00	4.687E+02	-6.560E+00	-9.621E+02	-1.302E+05	3.090E+08	-6.107E+00	4.687E+02	-6.560E+00	-9.621E+02	-5.658E+01	4.042E+03
GRAND TOTAL	7.334E+00	4.687E+02	1.275E+01	9.621E+02	3.600E+01	5.530E+01	7.334E+00	4.687E+02	1.275E+01	9.621E+02	7.394E+01	4.042E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (5)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	2.973E+02	1.814E+04	7.844E+01	6.271E+01	4.009E+03	1.200E+02	2.973E+02	1.814E+04	7.844E+01	6.271E+01	2.351E+02	3.183E+03

	4	5	4	4	4	5	4	5	4	4	4	5
Y MAXIMUM	4.379E-03	-2.707E-02	-9.419E-02	-2.121E-06	1.707E+00	-5.434E-01	4.379E-03	-2.707E-02	-9.419E-02	-2.121E-06	-2.674E+00	7.730E-01
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	-4.689E+02	-7.744E+01	-1.194E-03	-1.483E+00	7.389E-02	-4.042E+03	-4.689E+02	-7.744E+01	-1.194E-03	-1.483E+00	1.582E+02	-2.769E+02
GRAND TOTAL	7.662E+02	7.744E+01	7.844E+01	2.110E+00	4.049E+03	4.042E+03	7.662E+02	7.744E+01	7.844E+01	2.110E+00	2.352E+02	2.769E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (6)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	2.974E+02	2.183E-04	1.093E+02	-6.271E-01	-2.351E+02	3.183E-03	2.974E+02	2.183E-04	1.093E+02	-6.271E-01	3.229E+03	-7.730E-03
Y	4	5	4	4	4	5	4	5	4	4	4	5
Y MAXIMUM	4.400E-03	3.162E-02	1.188E-01	-2.121E-06	-2.674E+00	7.730E-01	4.400E-03	3.162E-02	1.188E-01	-2.121E-06	3.065E+00	-8.083E-01
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	-4.690E+02	-1.082E+02	-1.516E-03	-1.483E+00	1.582E+02	-2.769E+02	-4.690E+02	-1.082E+02	-1.516E-03	-1.483E+00	5.997E+02	5.135E+03
GRAND TOTAL	7.664E+02	1.082E+02	1.093E+02	2.110E+00	2.352E+02	2.769E+02	7.664E+02	1.082E+02	1.093E+02	2.110E+00	3.229E+03	5.135E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (7)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	-2.974E+02	-2.183E-04	1.093E+02	6.271E-01	-5.229E+03	-7.730E-03	-2.974E+02	-2.183E-04	1.093E+02	6.271E-01	2.351E+02	3.183E-03
Y	4	5	4	4	4	5	4	5	4	4	4	5
Y MAXIMUM	4.400E-03	3.162E-02	-1.188E-01	-2.121E-06	3.065E+00	8.083E-01	4.400E-03	3.162E-02	-1.188E-01	-2.121E-06	-2.674E+00	-7.730E-01
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	4.690E+02	1.082E+02	-1.516E-03	-1.483E+00	5.997E+02	5.135E+03	4.690E+02	1.082E+02	-1.516E-03	-1.483E+00	-1.582E+02	-2.769E+02
GRAND TOTAL	7.664E+02	1.082E+02	1.093E+02	2.110E+00	5.229E+03	5.135E+03	7.664E+02	1.082E+02	1.093E+02	2.110E+00	2.352E+02	2.769E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (8)

-72-

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	-2.973E+02	-1.814E-04	7.844E+01	6.271E-01	2.351E+02	3.183E-03	-2.973E+02	-1.814E-04	7.844E+01	6.271E-01	4.049E+03	1.200E-02
Y	4	5	4	4	4	5	4	5	4	4	4	5
Y MAXIMUM	4.379E-03	-2.707E-02	-9.419E-02	-2.121E-06	-2.674E+00	-7.730E-01	4.379E-03	-2.707E-02	-9.419E-02	-2.121E-06	1.707E+00	5.434E-01
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	4.689E+02	7.744E+01	-1.194E-03	-1.483E+00	-1.582E+02	-2.769E+02	4.689E+02	7.744E+01	-1.194E-03	-1.483E+00	-7.389E-02	-4.042E+03
GRAND TOTAL	7.662E+02	7.744E+01	7.844E+01	2.110E+00	2.352E+02	2.769E+02	7.662E+02	7.744E+01	7.844E+01	2.110E+00	4.049E+03	4.042E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (9)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	1.228E+00	-1.293E-02	-6.186E+00	1.583E-08	1.736E+01	-2.608E-02	1.228E+00	-1.293E-02	-6.186E+00	1.583E-08	-3.600E+01	8.542E-02
Y	5	5	4	5	4	5	5	5	4	5	4	5
Y MAXIMUM	-2.710E-02	3.344E-04	1.236E-05	-1.490E-10	-2.178E-05	-5.434E-01	-2.710E-02	3.344E-04	1.236E-05	-1.490E-10	8.483E-05	-5.463E-01
Z	2	2	2	2	2	2	2	2	2	2	2	1
Z MAXIMUM	6.107E+00	4.687E+02	6.560E+00	9.621E-02	-5.658E+01	4.042E+03	6.107E+00	4.687E+02	6.560E+00	9.621E-02	-1.302E+05	3.090E-08
GRAND TOTAL	7.334E+00	4.687E+02	1.275E+01	9.621E-02	7.394E+01	4.042E+03	7.334E+00	4.687E+02	1.275E+01	9.621E-02	3.600E+01	5.530E-01

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (10)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	1.228E+00	1.324E-02	6.186E+00	1.587E-08	-3.600E+01	8.542E-02	1.228E+00	1.324E-02	6.186E+00	1.587E-08	1.736E+01	-2.610E-02
Y	5	5	4	5	4	5	5	5	4	5	4	5
Y MAXIMUM	-2.710E-02	-3.344E-04	1.236E-05	-1.490E-10	8.483E-05	-5.463E-01	-2.710E-02	-3.344E-04	1.236E-05	-1.490E-10	-2.178E-05	-5.434E-01
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	-6.107E+00	-4.687E+02	-6.560E+00	-9.621E-02	-1.302E+05	3.090E-08	-6.107E+00	-4.687E+02	-6.560E+00	-9.621E-02	-5.658E+01	-4.042E+03
GRAND TOTAL	7.334E+00	4.687E+02	1.275E+01	9.621E-02	-3.600E+01	5.530E-01	7.334E+00	4.687E+02	1.275E+01	9.621E-02	7.394E+01	4.042E+03

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	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	-2.973E+02	-2.392E-04	7.844E+01	-6.271E-01	4.049E+03	-1.502E-02	-2.973E+02	-2.392E-04	7.844E+01	-6.271E-01	-2.351E+02	-3.390E+03
Y	4	5	4	4	4	5	4	5	4	4	4	5
Y MAXIMUM	4.379E-03	-2.707E-02	9.419E-02	2.121E-06	-1.707E+00	-5.434E-01	4.379E-03	-2.707E-02	9.419E-02	2.121E-06	2.874E+00	7.730E-01
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	-4.689E+02	-7.744E+01	1.185E-03	1.483E+00	-7.341E-02	-4.042E+03	-4.689E+02	-7.744E+01	1.185E-03	1.483E+00	-1.579E-02	-2.769E+02
GRAND TOTAL	7.662E+02	7.744E+01	7.844E+01	2.110E+00	4.049E+03	4.042E+03	7.662E+02	7.744E+01	7.844E+01	2.110E+00	2.352E+02	2.769E+02

ELEMENT TYPE (3/D) P I P E) / / / ELEMENT NUMBER (12)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	-2.474E+02	-2.490E+04	1.043E+02	-6.271E+01	-2.351E+02	-3.340E+03	-2.974E+02	-2.490E+04	1.093E+02	-6.271E+01	5.229E+03	1.156E+02
Y	4	5	4	4	4	5	4	5	4	4	4	5
Y MAXIMUM	4.400E-03	3.162E-02	-1.188E-01	2.121E-06	2.874E+00	7.730E-01	4.400E-03	3.162E-02	-1.188E-01	2.121E-06	-3.065E+00	-8.083E-01
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	-4.690E+02	-1.082E+02	1.503E-03	1.483E+00	-1.579E+02	-2.769E+02	-4.690E+02	-1.082E+02	1.503E-03	1.483E+00	5.934E+02	5.135E+03
GRAND TOTAL	7.664E+02	1.082E+02	1.073E+02	2.110E+00	2.352E+02	2.769E+02	7.664E+02	1.082E+02	1.093E+02	2.110E+00	5.229E+03	5.135E+03

ELEMENT TYPE (3/D) P I P E) / / / ELEMENT NUMBER (13)

		PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1	1
-Y	4	4	4	4	4	4	4	4	4	4	4	4	4
Z	2	2	2	2	2	2	2	2	2	2	2	2	2
X MAXIMUM		-1.237E+01	-2.972E+02	-1.224E+00	-1.408E-02	1.673E+01	-4.049E+03	-1.237E+01	-2.972E+02	-1.228E+00	-1.408E-02	6.140E+00	-1.486E+03
-Y MAXIMUM		-9.432E-02	4.335E-03	4.811E-06	-9.379E-13	-1.906E-05	-1.707E+00	-9.432E-02	4.335E-03	4.811E-06	-9.379E-13	2.375E-05	-1.744E+00
Z MAXIMUM		0.560E+00	-4.223E-02	-1.222E+01	1.754E-08	5.807E+01	-1.646E-01	0.560E+00	-4.223E-02	-1.222E+01	1.754E-08	-4.731E+01	1.946E-01
GRAND TOTAL		1.893E+01	2.972E+02	1.345E+01	1.408E-02	7.480E+01	4.049E+03	1.893E+01	2.972E+02	1.345E+01	1.408E-02	5.345E+01	1.486E+03

ELEMENT TYPE (3/1) P I P E) / / / ELEMENT NUMBER (14)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	2.369E-06	-2.972E+02	-1.228E+00	1.408E-02	6.140E+00	-1.486E+03	2.369E-06	-2.972E+02	-1.228E+00	1.408E-02	6.140E+00	1.486E+03
Y	4	5	5	5	5	4	4	5	5	5	5	4
Y MAXIMUM	-9.433E-02	3.378E-13	2.110E-13	-9.326E-13	2.375E-05	-1.744E+00	-9.433E-02	3.378E-13	2.110E-13	-9.326E-13	2.375E-05	-1.744E+00
Z	2	4	1	2	2	2	2	1	2	2	2	2
Z MAXIMUM	6.560E+00	-1.075E-04	-4.442E-07	1.755E-08	-4.731E+01	1.944E+01	6.560E+00	-1.075E-04	-4.442E-07	1.755E-08	-4.731E+01	1.944E+01
GRAND TOTAL	6.560E+00	2.972E+02	1.228E+00	1.408E-02	5.345E+01	1.486E+03	6.560E+00	2.972E+02	1.228E+00	1.408E-02	5.345E+01	1.486E+03

ELEMENT TYPE (S/D P I P E) / / / ELEMENT NUMBER (15)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	1.237E+01	-2.972E+02	-1.228E+00	-1.408E+02	-6.140E+00	1.486E+03	1.237E+01	-2.972E+02	-1.228E+00	-1.408E+02	-1.673E+01	4.049E+03
Y	4	4	5	5	5	4	4	4	5	5	4	4
Y MAXIMUM	-4.432E+02	-4.335E+03	-4.814E+06	-8.633E+13	2.375E+05	-1.744E+00	-4.432E+02	-4.335E+03	-4.814E+06	-8.633E+13	-1.966E+05	-1.707E+00
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	6.560E+00	4.226E+02	1.222E+01	1.778E+08	-4.731E+01	1.944E+01	6.560E+00	4.226E+02	1.222E+01	1.778E+08	5.807E+01	-1.701E+01
GRAND TOTAL	1.843E+01	2.472E+02	1.345E+01	1.408E+02	5.345E+01	1.486E+03	1.843E+01	2.472E+02	1.345E+01	1.408E+02	7.480E+01	4.049E+03

ELEMENT TYPE (3/0	P I P E	1	/	/	/	ELEMENT NUMBER (16)
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[illegible]

X MAXIMUM	1.237E+01	2.472E+02	1.228E+00	1.408E-02	-1.673E+01	4.049E+03	1.237E+01	2.472E+02	1.228E+00	1.408E-02	-6.140E+00	1.486E+03
Y	4	4	5	5	4	4	4	4	5	5	5	4
Y MAXIMUM	-9.432E-02	4.335E-03	4.818E-06	-9.130E-13	-1.966E-05	-1.707E+00	-9.432E-02	4.335E-03	4.818E-06	-9.130E-13	2.375E-05	-1.744E+00
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	-6.560E+00	4.223E-02	1.222E+01	1.591E-08	-5.807E+01	1.646E-01	-6.560E+00	4.223E-02	1.222E+01	1.591E-08	4.731E+01	-1.946E-01
GRAND TOTAL	1.893E+01	2.972E+02	1.345E+01	1.408E-02	7.480E+01	4.049E+03	1.893E+01	2.972E+02	1.345E+01	1.408E-02	5.345E+01	1.486E+03

ELEMENT TYPE (3/0) P I P E) / / / ELEMENT NUMBER (17)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	-2.429E-06	2.472E+02	1.228E+00	1.408E-02	-6.140E+00	1.486E+03	-2.429E-06	2.472E+02	1.228E+00	1.408E-02	-6.140E+00	1.486E+03
Y	4	5	5	5	5	4	4	5	5	5	5	4
Y MAXIMUM	-9.433E-02	3.376E-13	2.111E-13	-9.148E-13	2.375E-05	-1.744E+00	-9.433E-02	3.376E-13	2.111E-13	-9.148E-13	2.375E-05	-1.744E+00
Z	2	1	1	2	2	2	2	1	1	2	2	2
Z MAXIMUM	-6.560E+00	1.075E-04	4.442E-07	1.588E-08	4.731E+01	-1.946E-01	-6.560E+00	1.075E-04	4.442E-07	1.588E-08	4.731E+01	-1.946E-01
GRAND TOTAL	6.560E+00	2.972E+02	1.228E+00	1.408E-02	5.345E+01	1.486E+03	6.560E+00	2.472E+02	1.228E+00	1.408E-02	5.345E+01	1.486E+03

ELEMENT TYPE (3/0) P I P I) / / / ELEMENT NUMBER (18)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	-1.237E+01	2.472E+02	1.228E+00	1.408E-02	-6.140E+00	-1.486E+03	-1.237E+01	2.472E+02	1.228E+00	1.408E-02	-1.673E+01	-4.049E+03
Y	4	4	5	5	5	4	4	4	5	5	4	4
Y MAXIMUM	-9.432E-02	-4.335E-03	-4.818E-06	-9.130E-13	2.375E-05	-1.744E+00	-9.432E-02	-4.335E-03	-4.818E-06	-9.130E-13	-1.966E-05	-1.707E+00
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	-6.560E+00	-4.223E-02	-1.222E+01	1.588E-08	4.731E+01	-1.944E-01	-6.560E+00	-4.223E-02	-1.222E+01	1.588E-08	-5.807E+01	1.701E-01
GRAND TOTAL	1.893E+01	2.972E+02	1.345E+01	1.408E-02	5.345E+01	1.486E+03	1.893E+01	2.472E+02	1.345E+01	1.408E-02	7.480E+01	4.049E+03

Solution 2b

Intermodal/Interspatial Combination

N O D E D I S P L A C E M E N T S / R O T A T I O N S							
NODE NUMBER	MODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	TOTAL..	2.30250E-01	9.26222E-04	2.25121E-01	6.53919E-03	9.63528E-06	6.72092E-03
2	TOTAL..	2.30250E-01	9.26221E-04	2.25121E-01	6.53919E-03	9.63528E-06	6.72092E-03
3	TOTAL..	2.30250E-01	9.26222E-04	2.25121E-01	6.53919E-03	9.63528E-06	6.72092E-03
4	TOTAL..	2.30250E-01	9.26221E-04	2.25121E-01	6.53919E-03	9.63528E-06	6.72092E-03
5	TOTAL..	4.61834E-01	1.82677E-03	4.46230E-01	8.85597E-04	1.11156E-05	1.11324E-03
6	TOTAL..	4.61880E-01	9.78271E-04	4.46231E-01	5.29316E-05	2.89914E-06	1.11324E-03
7	TOTAL..	4.61934E-01	1.82677E-03	4.46230E-01	8.85597E-04	1.11156E-05	1.11324E-03
8	TOTAL..	4.61838E-01	2.35826E-03	4.46382E-01	8.85597E-04	1.27731E-05	1.71867E-04
9	TOTAL..	4.61838E-01	2.35826E-03	4.46382E-01	8.85597E-04	1.27731E-05	1.71867E-04
10	TOTAL..	4.61834E-01	1.82677E-03	4.46230E-01	8.85597E-04	1.11156E-05	1.11324E-03
11	TOTAL..	4.61880E-01	9.78271E-04	4.46231E-01	5.29316E-05	2.89914E-06	1.11324E-03
12	TOTAL..	4.61834E-01	1.82677E-03	4.46230E-01	8.85597E-04	1.11156E-05	1.11324E-03
13	TOTAL..	4.61838E-01	2.35826E-03	4.46382E-01	8.85597E-04	1.27731E-05	1.71867E-04
14	TOTAL..	4.61838E-01	2.35826E-03	4.46382E-01	8.85597E-04	1.27731E-05	1.71867E-04
15	TOTAL..	0.	0.	0.	0.	0.	0.
16	TOTAL..	0.	0.	0.	0.	0.	0.
17	TOTAL..	0.	0.	0.	0.	0.	0.
	TOTAL..	0.	0.	0.	0.	0.	0.

ON EACH ELEMENT THE VALUES AND INFORMATION IS PRINTED.

1. FOR EACH EARTH QUAKE DIRECTION, THE NUMBER OF THE MODE WITH THE LARGEST STRESS.
 2. THE VALUE OF THAT STRESS.
 3. IF REQUESTED, THE MODE BY MODE STRESSES FOR EACH EARTH QUAKE DIRECTION.
 4. THE RESULTANT FOR EACH EARTH QUAKE DIRECTION.
 5. THE GRAND TOTAL OF THE THREE EARTH QUAKE DIRECTIONS.
- (NOTE: THE X, Y, OR Z REFERS TO THE EARTH QUAKE DIRECTION.)

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (1)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	2.974E+02	2.940E+04	1.093E+02	6.271E+01	5.229E+03	1.156E+02	2.974E+02	2.940E+04	1.093E+02	6.271E+01	2.351E+02	3.390E+03
Y	4	5	4	4	4	5	4	4	5	4	4	5
Y MAXIMUM	-4.400E+03	3.162E+02	-1.184E+01	-2.121E+06	3.065E+00	8.083E+01	-4.400E+03	3.162E+02	-1.184E+01	-2.121E+06	-2.870E+00	-7.730E+01
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	-4.690E+02	-1.042E+02	-1.503E+03	1.483E+00	5.934E+02	-5.135E+03	-4.690E+02	-1.042E+02	-1.503E+03	1.483E+00	-1.577E+02	2.769E+02
GRAND TOTAL	5.554E+02	1.082E+02	1.093E+02	1.610E+00	5.229E+03	5.135E+03	5.554E+02	1.082E+02	1.093E+02	1.610E+00	2.351E+02	2.769E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (2)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	2.973E+02	2.392E+04	7.844E+01	6.271E+01	2.351E+02	3.390E+03	2.973E+02	2.392E+04	7.844E+01	6.271E+01	4.049E+03	-1.502E+02
Y	4	5	4	4	4	5	4	4	5	4	4	5
Y MAXIMUM	-4.374E+03	-2.707E+02	9.419E+02	-2.121E+06	-2.874E+00	-7.730E+01	-4.374E+03	-2.707E+02	9.419E+02	-2.121E+06	1.707E+00	5.434E+01
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	-4.689E+02	-7.744E+01	-1.185E+03	1.483E+00	-1.579E+02	2.769E+02	-4.689E+02	-7.744E+01	-1.185E+03	1.483E+00	-7.341E+02	4.042E+03
GRAND TOTAL	5.552E+02	7.744E+01	7.844E+01	1.610E+00	2.351E+02	2.769E+02	5.552E+02	7.744E+01	7.844E+01	1.610E+00	4.049E+03	4.042E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (3)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	-1.228E+00	1.328E+02	-6.146E+00	-5.600E+08	1.736E+01	2.910E+02	-1.228E+00	1.328E+02	-6.146E+00	-5.600E+08	-3.600E+01	-0.542E+02
Y	5	5	4	5	5	4	5	5	4	5	5	4
Y MAXIMUM	-2.710E+02	3.344E+04	1.236E+05	1.535E+10	-2.178E+05	-5.434E+01	-2.710E+02	3.344E+04	1.236E+05	1.535E+10	8.483E+05	-5.463E+01
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	-6.107E+00	-4.687E+02	6.560E+00	9.621E+02	-5.658E+01	-4.042E+03	-6.107E+00	-4.687E+02	6.560E+00	9.621E+02	-1.302E+05	-3.090E+08
GRAND TOTAL	6.229E+00	4.687E+02	9.617E+00	9.621E+02	5.919E+01	4.042E+03	6.229E+00	4.687E+02	9.617E+00	9.621E+02	3.600E+01	5.530E+01

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (4)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	-1.228E+00	-1.293E+02	6.186E+00	-5.602E+08	-3.600E+01	-4.542E+02	-1.228E+00	-1.293E+02	6.186E+00	-5.602E+08	1.736E+01	2.608E+02
Y	5	5	4	5	5	4	5	5	4	5	5	4
Y MAXIMUM	-2.710E+02	-3.344E+04	-1.236E+05	1.535E+10	8.483E+05	-5.463E+01	-2.710E+02	-3.344E+04	-1.236E+05	1.535E+10	-2.178E+05	-5.434E+01
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	6.107E+00	-4.687E+02	6.560E+00	9.621E+02	-1.302E+05	-3.090E+08	6.107E+00	-4.687E+02	6.560E+00	9.621E+02	5.658E+01	4.042E+03
GRAND TOTAL	6.229E+00	4.687E+02	9.617E+00	9.621E+02	3.600E+01	5.530E+01	6.229E+00	4.687E+02	9.617E+00	9.621E+02	5.919E+01	4.042E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (5)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	2.973E+02	1.810E+04	7.844E+01	6.271E+01	4.049E+03	1.200E+02	2.973E+02	1.810E+04	7.844E+01	6.271E+01	2.351E+02	3.183E+03

		4	5	4	4	4	5	4	5	4	4	5
Y												
Y MAXIMUM	-4.379E-03	-2.707E-02	9.419E-02	2.121E-06	-1.707E+00	-5.434E-01	-4.379E-03	-2.707E-02	9.419E-02	2.121E-06	2.874E+00	7.730E-01
Z												
Z MAXIMUM	4.689E+02	7.744E+01	1.194E-03	1.483E+00	-7.389E-02	4.042E+03	4.689E+02	7.744E+01	1.194E-03	1.483E+00	-1.582E-02	2.769E+02
GRAND TOTAL	5.552E+02	7.744E+01	7.844E+01	1.610E+00	4.049E+03	4.042E+03	5.552E+02	7.744E+01	7.844E+01	1.610E+00	2.351E+02	2.769E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (6)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	2.974E+02	2.183E-04	1.093E+02	-6.271E-01	-2.351E+02	3.183E-03	2.974E+02	2.183E-04	1.093E+02	-6.271E-01	9.229E+03	-7.730E-03
Y		4	5	4	4	4	5	4	5	4	4	5
Y MAXIMUM	-4.400E-03	3.162E-02	-1.188E-01	2.121E-06	2.874E+00	7.730E-01	-4.400E-03	3.162E-02	-1.188E-01	2.121E-06	3.065E+00	-8.083E-01
Z		2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	4.690E+02	1.082E+02	1.516E-03	1.483E+00	-1.582E-02	2.769E+02	4.690E+02	1.082E+02	1.516E-03	1.483E+00	5.997E-02	-5.135E+03
GRAND TOTAL	5.554E+02	1.082E+02	1.093E+02	1.610E+00	2.351E+02	2.769E+02	5.554E+02	1.082E+02	1.093E+02	1.610E+00	5.229E+03	5.135E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (7)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	-2.974E+02	-2.183E-04	1.093E+02	6.271E-01	-5.229E+03	-7.730E-03	-2.974E+02	-2.183E-04	1.093E+02	6.271E-01	2.351E+02	3.183E-03
Y		4	5	4	4	4	5	4	5	4	4	5
Y MAXIMUM	-4.400E-03	3.162E-02	1.188E-01	2.121E-06	-3.065E+00	8.083E-01	-4.400E-03	3.162E-02	1.188E-01	2.121E-06	2.874E+00	-7.730E-01
Z		2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	-4.690E+02	-1.082E+02	1.516E-03	-1.483E+00	-5.997E-02	-5.135E+03	-4.690E+02	-1.082E+02	1.516E-03	-1.483E+00	1.582E-02	2.769E+02
GRAND TOTAL	5.554E+02	1.082E+02	1.093E+02	1.610E+00	5.229E+03	5.135E+03	5.554E+02	1.082E+02	1.093E+02	1.610E+00	2.351E+02	2.769E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (8)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	-2.973E+02	-1.814E-04	7.844E+01	6.271E-01	2.351E+02	3.183E-03	-2.973E+02	-1.814E-04	7.844E+01	6.271E-01	4.049E+03	1.200E-02
Y		4	5	4	4	4	5	4	5	4	4	5
Y MAXIMUM	-4.379E-03	-2.707E-02	9.419E-02	2.121E-06	2.874E+00	-7.730E-01	-4.379E-03	-2.707E-02	9.419E-02	2.121E-06	-1.707E+00	5.434E-01
Z		2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	-4.689E+02	-7.744E+01	1.194E-03	-1.483E+00	1.582E-02	2.769E+02	-4.689E+02	-7.744E+01	1.194E-03	-1.483E+00	7.389E-02	4.042E+03
GRAND TOTAL	5.552E+02	7.744E+01	7.844E+01	1.610E+00	2.351E+02	2.769E+02	5.552E+02	7.744E+01	7.844E+01	1.610E+00	4.049E+03	4.042E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (9)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	1.228E+00	-1.293E-02	-6.186E+00	1.583E-08	1.736E+01	-2.608E-02	1.228E+00	-1.293E-02	-6.186E+00	1.583E-08	-3.600E+01	8.542E-02
Y		5	5	4	5	4	5	5	5	4	5	5
Y MAXIMUM	-2.710E-02	3.344E-04	-1.236E-05	-1.490E-10	2.178E-05	-5.434E-01	-2.710E-02	3.344E-04	-1.236E-05	-1.490E-10	-8.483E-05	-5.463E-01
Z		2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	-6.107E+00	-4.687E+02	-6.560E+00	-9.621E-02	5.658E+01	-4.042E+03	-6.107E+00	-4.687E+02	-6.560E+00	-9.621E-02	-1.302E+05	3.090E+08
GRAND TOTAL	6.229E+00	4.687E+02	9.017E+00	9.621E-02	5.919E+01	4.042E+03	6.229E+00	4.687E+02	9.017E+00	9.621E-02	3.600E+01	5.530E-01

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (10)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	1.228E+00	1.328E-02	6.186E+00	1.587E-08	-3.600E+01	8.542E-02	1.228E+00	1.328E-02	6.186E+00	1.587E-08	1.736E+01	-2.910E-02
Y		5	5	4	5	4	5	5	5	4	5	5
Y MAXIMUM	-2.710E-02	-3.344E-04	1.236E-05	-1.490E-10	-8.483E-05	-5.463E-01	-2.710E-02	-3.344E-04	1.236E-05	-1.490E-10	2.178E-05	-5.434E-01
Z		2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	-6.107E+00	-4.687E+02	-6.560E+00	-9.621E-02	5.658E+01	-4.042E+03	-6.107E+00	-4.687E+02	-6.560E+00	-9.621E-02	-1.302E+05	3.090E+08

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
(IMUM	-2.973E+02	-2.392E+04	7.844E+01	-6.271E-01	-4.049E+03	-1.502E-02	-2.971E+02	-2.392E+04	7.844E+01	-6.271E-01	-2.392E+04	-3.390E+03
Y	4	5	5	4	4	4	5	5	5	4	4	5
Y MAXIMUM	-4.379E-03	-2.707E-02	-9.419E-02	-2.121E-06	1.707E+00	5.434E-01	-4.379E-03	-2.707E-02	-9.419E-02	-2.121E-06	-2.874E+00	7.730E+01
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	4.689E+02	7.744E+01	-1.185E-03	-1.483E+00	7.341E-02	4.042E+03	4.689E+02	7.744E+01	-1.185E-03	-1.483E+00	1.579E+02	2.769E+02
GRAND TOTAL	5.552E+02	7.744E+01	7.844E+01	1.610E+00	4.049E+03	4.042E+03	5.552E+02	7.744E+01	7.844E+01	1.610E+00	2.351E+02	2.769E+02

ELEMENT TYPE (3/0) P I P E) / / / ELEMENT NUMBER (12)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	-2.974E+02	-2.990E+04	1.093E+02	-6.271E-01	-2.351E+02	-3.390E-03	-2.974E+02	-2.990E+04	1.093E+02	-6.271E-01	5.229E+03	1.156E-02
Y	4	5	5	4	4	4	5	5	5	4	4	5
Y MAXIMUM	-4.400E-03	3.162E-02	1.188E-01	-2.121E-06	-2.874E+00	7.730E-01	-4.400E-03	3.162E-02	1.188E-01	-2.121E-06	3.065E+00	-8.083E-01
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	4.690E+02	1.082E+02	-1.503E-03	-1.483E+00	1.579E+02	2.769E+02	4.690E+02	1.082E+02	-1.503E-03	-1.483E+00	-5.930E-02	-5.135E+03
GRAND TOTAL	5.554E+02	1.082E+02	1.093E+02	1.610E+00	2.351E+02	2.769E+02	5.554E+02	1.082E+02	1.093E+02	1.610E+00	5.229E+03	5.135E+03

ELEMENT TYPE (3/0) P I P E) / / / ELEMENT NUMBER (13)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	-1.237E+01	-2.972E+02	-1.228E+00	-1.408E-02	1.673E+01	-4.049E+03	-1.237E+01	-2.972E+02	-1.228E+00	-1.408E-02	6.140E+00	-1.486E+03
Y	4	5	5	4	4	4	5	5	5	4	4	5
Y MAXIMUM	9.432E-02	-4.335E-03	4.818E-06	-9.450E-13	1.906E-05	1.707E+00	9.432E-02	-4.335E-03	4.818E-06	-9.450E-13	2.375E-05	1.700E+00
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	-6.560E+00	4.223E+02	1.222E+01	-1.754E-08	5.807E+01	1.676E-01	-6.560E+00	4.223E+02	1.222E+01	-1.754E-08	4.731E+01	-1.906E-01
GRAND TOTAL	1.400E+01	2.972E+02	1.228E+01	-1.408E-02	6.043E+01	4.049E+03	1.400E+01	2.972E+02	1.228E+01	-1.408E-02	4.771E+01	1.486E+03

ELEMENT TYPE (3/0) P I P E) / / / ELEMENT NUMBER (14)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	2.369E-06	-2.972E+02	-1.228E+00	-1.408E-02	6.140E+00	-1.486E+03	2.369E-06	-2.972E+02	-1.228E+00	-1.408E-02	-6.140E+00	1.486E+03
Y	4	5	5	4	4	4	5	5	5	4	4	5
Y MAXIMUM	9.433E-02	3.380E-13	2.111E-13	-9.415E-13	2.375E-05	1.700E+00	9.433E-02	3.380E-13	2.111E-13	-9.415E-13	2.375E-05	1.700E+00
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	-6.560E+00	-1.075E-08	-4.042E-07	-1.755E-08	4.731E+01	-1.906E-01	-6.560E+00	-1.075E-08	-4.042E-07	-1.755E-08	4.731E+01	-1.906E-01
GRAND TOTAL	6.560E+00	2.972E+02	1.228E+00	-1.408E-02	4.771E+01	1.486E+03	6.560E+00	2.972E+02	1.228E+00	-1.408E-02	4.771E+01	1.486E+03

ELEMENT TYPE (3/0) P I P E) / / / ELEMENT NUMBER (15)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	1.237E+01	-2.972E+02	-1.228E+00	-1.408E-02	-6.140E+00	1.486E+03	1.237E+01	-2.972E+02	-1.228E+00	-1.408E-02	-1.673E+01	4.049E+03
Y	4	5	5	4	4	4	5	5	5	4	4	5
Y MAXIMUM	9.432E-02	4.335E-03	-4.818E-06	-8.615E-13	2.375E-05	1.700E+00	9.432E-02	4.335E-03	-4.818E-06	-8.615E-13	1.906E+05	1.707E+00
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	-6.560E+00	-2.226E-02	-1.222E+01	-1.778E-08	4.731E+01	-1.906E-01	-6.560E+00	-2.226E-02	-1.222E+01	-1.778E-08	5.807E+01	1.701E-01
GRAND TOTAL	1.400E+01	2.972E+02	1.228E+01	-1.408E-02	4.771E+01	1.486E+03	1.400E+01	2.972E+02	1.228E+01	-1.408E-02	6.043E+01	4.049E+03

ELEMENT TYPE (3/0) P I P E) / / / ELEMENT NUMBER (16)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1

	1	2	3	4	5	6	7	8	9	10	11	12
X MAXIMUM	1.237E+01	2.972E+02	1.228E+00	1.408E-02	-1.673E+01	4.049E+03	1.247E+01	2.972E+02	1.228E+00	1.408E-02	-1.673E+01	4.049E+03
Y MAXIMUM	9.432E-02	-4.335E-03	4.818E-06	-9.148E-13	1.966E-05	1.707E+00	9.432E-02	-4.335E-03	4.818E-06	-9.148E-13	2.375E-05	1.744E+00
Z MAXIMUM	6.560E+00	-4.223E-02	-1.222E+01	-1.591E-08	5.807E+01	-1.696E+01	6.560E+00	-4.223E-02	-1.222E+01	-1.591E-08	-4.731E+01	1.944E-01
GRAND TOTAL	1.400E+01	2.972E+02	1.228E+01	1.408E-02	6.043E+01	4.049E+03	1.400E+01	2.972E+02	1.228E+01	1.408E-02	4.771E+01	1.486E+03

ELEMENT TYPE (3/D P I P E 1 / / / ELEMENT NUMBER (17)

	1	2	3	4	5	6	7	8	9	10	11	12
X MAXIMUM	-2.429E-06	2.972E+02	1.228E+00	1.408E-02	-6.140E+00	1.486E+03	-2.429E-06	2.972E+02	1.228E+00	1.408E-02	-6.140E+00	1.486E+03
Y MAXIMUM	9.433E-02	3.375E-13	2.111E-13	-9.077E-13	2.375E-05	1.744E+00	9.433E-02	3.375E-13	2.111E-13	-9.077E-13	2.375E-05	1.744E+00
Z MAXIMUM	6.560E+00	1.075E-04	4.442E-07	-1.588E-08	-4.731E+01	1.944E-01	6.560E+00	1.075E-04	4.442E-07	-1.588E-08	-4.731E+01	1.944E-01
GRAND TOTAL	6.560E+00	2.972E+02	1.228E+00	1.408E-02	4.771E+01	1.486E+03	6.560E+00	2.972E+02	1.228E+00	1.408E-02	4.771E+01	1.486E+03

ELEMENT TYPE (3/D P I P E 1 / / / ELEMENT NUMBER (18)

	1	2	3	4	5	6	7	8	9	10	11	12
X MAXIMUM	-1.237E+01	2.972E+02	1.228E+00	1.408E-02	-6.140E+00	-1.486E+03	-1.237E+01	2.972E+02	1.228E+00	1.408E-02	-1.673E+01	4.049E+03
Y MAXIMUM	9.432E-02	4.335E-03	-4.818E-06	-9.095E-13	2.375E-05	1.744E+00	9.432E-02	4.335E-03	-4.818E-06	-9.095E-13	1.966E-05	1.707E+00
Z MAXIMUM	6.560E+00	4.226E-02	1.222E+01	-1.588E-08	-4.731E+01	1.944E-01	6.560E+00	4.226E-02	1.222E+01	-1.588E-08	5.807E+01	-1.701E-01
GRAND TOTAL	1.400E+01	2.972E+02	1.228E+01	1.408E-02	4.771E+01	1.486E+03	1.400E+01	2.972E+02	1.228E+01	1.408E-02	6.043E+01	4.049E+03

BENCHMARK PROBLEM NO. 3

Figure 3.1

BENCHMARK PROBLEM NO. 3

Figure 3.2.

C C R O L I N F O R M A T I O N

NUMBER OF NODAL POINTS ■ 29
 NUMBER OF ELEMENT TYPES ■ 2
 NUMBER OF LOAD CASES ■ 0
 NUMBER OF FREQUENCIES ■ 10
 ANALYSIS CODE (NDYN) ■ 3
 EQ.0, STATIC
 EQ.1, MODAL EXTRACTION
 EQ.2, FORCED RESPONSE
 EQ.3, RESPONSE SPECTRUM
 EQ.4, DIRECT INTEGRATION
 SOLUTION MODE (MODEX) ■ 0
 EQ.0, EXECUTION
 EQ.1, DATA CHECK
 NUMBER OF SUBSPACE
 ITERATION VECTOR8 (NAD) ■ 0
 EQUATIONS PER BLOCK ■ 0
 TAPE10 SAVE FLAG (N10SV) ■ -0

NODAL POINT INPUT DATA

NODE NUMBER	BOUNDARY CONDITION CODES						NODAL POINT COORDINATES				
	X	Y	Z	XX	YY	ZZ	X	Y	Z	T	
1	0	0	0	1	1	1	0.000	0.000	0.000	-0	-0.000
2	0	0	0	0	0	0	0.000	54.450	0.000	-0	-0.000
3	0	0	0	0	0	0	0.000	108.900	0.000	-0	-0.000
4	0	0	0	0	0	0	10.632	134.568	0.000	-0	-0.000
5	0	0	0	0	0	0	36.300	145.200	0.000	-0	-0.000
6	0	0	0	0	0	0	54.150	145.200	0.000	-0	-0.000
7	0	0	0	0	0	0	72.000	145.200	0.000	-0	-0.000
8	0	0	0	0	0	0	97.668	145.200	10.632	-0	-0.000
9	0	0	0	0	0	0	108.300	145.200	36.300	-0	-0.000
10	0	0	0	0	0	0	108.300	145.200	56.800	-0	-0.000
11	0	0	0	0	0	0	108.300	145.200	77.300	-0	-0.000
12	0	0	0	0	0	0	108.300	145.200	97.800	-0	-0.000
13	0	0	0	0	0	0	108.300	145.200	118.300	-0	-0.000
14	0	0	0	0	0	0	108.300	145.200	188.800	-0	-0.000
15	0	0	0	0	0	0	108.300	181.500	225.100	-0	-0.000
16	0	0	0	0	0	0	108.300	236.000	225.100	-0	-0.000
17	1	1	1	0	0	0	108.300	290.000	225.100	-0	-0.000
18	0	0	0	0	0	0	148.300	145.200	97.800	-0	-0.000
19	0	0	0	0	0	0	188.300	145.200	97.800	-0	-0.000
20	0	0	0	0	0	0	224.600	145.200	61.500	-0	-0.000
21	1	1	1	1	1	1	224.600	145.200	20.000	-0	-0.000
22	1	1	1	1	1	1	1.000	0.000	0.000	-0	-0.000
23	1	1	1	1	1	1	0.000	0.000	0.000	-0	-0.000
24	1	1	1	1	1	1	0.000	0.000	1.000	-0	-0.000
25	1	1	1	1	1	1	72.000	145.200	-1.000	-0	-0.000
26	1	1	1	1	1	1	109.300	145.200	36.300	-0	-0.000
27	1	1	1	1	1	1	108.300	146.200	77.300	-0	-0.000
28	1	1	1	1	1	1	108.300	146.200	118.300	-0	-0.000
29	1	1	1	1	1	1	107.300	182.500	226.500	-0	-0.000

GENERATED NODAL DATA

NODE NUMBER	BOUNDARY CONDITION CODES						NODAL POINT COORDINATES			
	X	Y	Z	XX	YY	ZZ	X	Y	Z	T
1	0	0	0	1	1	1	0.000	0.000	0.000	-0.000
2	0	0	0	0	0	0	0.000	54.450	0.000	-0.000
3	0	0	0	0	0	0	0.000	108.900	0.000	-0.000
4	0	0	0	0	0	0	10.632	134.568	0.000	-0.000
5	0	0	0	0	0	0	36.300	145.200	0.000	-0.000
6	0	0	0	0	0	0	54.150	145.200	0.000	-0.000
7	0	0	0	0	0	0	72.000	145.200	0.000	-0.000
8	0	0	0	0	0	0	97.668	145.200	10.632	-0.000
9	0	0	0	0	0	0	108.300	145.200	36.300	-0.000
10	0	0	0	0	0	0	108.300	145.200	56.800	-0.000
11	0	0	0	0	0	0	108.300	145.200	77.300	-0.000
12	0	0	0	0	0	0	108.300	145.200	97.800	-0.000
13	0	0	0	0	0	0	108.300	145.200	118.300	-0.000
14	0	0	0	0	0	0	108.300	145.200	138.800	-0.000
15	0	0	0	0	0	0	108.300	181.500	225.100	-0.000
16	0	0	0	0	0	0	108.300	236.000	225.100	-0.000
17	1	1	1	0	0	0	108.300	290.000	225.100	-0.000
18	0	0	0	0	0	0	148.300	145.200	97.800	-0.000
19	0	0	0	0	0	0	188.300	145.200	97.800	-0.000
20	0	0	0	0	0	0	224.600	145.200	61.500	-0.000
21	1	1	1	1	1	1	224.600	145.200	20.000	-0.000
22	1	1	1	1	1	1	1.000	0.000	0.000	-0.000
23	1	1	1	1	1	1	0.000	1.000	0.000	-0.000
24	1	1	1	1	1	1	0.000	0.000	1.000	-0.000
25	1	1	1	1	1	1	72.000	145.200	-1.000	-0.000
26	1	1	1	1	1	1	109.300	145.200	36.300	-0.000
27	1	1	1	1	1	1	108.300	146.200	118.300	-0.000
28	1	1	1	1	1	1	108.300	146.200	77.300	-0.000
29	1	1	1	1	1	1	107.300	182.500	226.500	-0.000

BOUNDARY ELEMENTS

ELI TYPE # 7
NUMBER OF ELEMENTS # 8

ELEMENT LOAD CASE MULTIPLIERS

CASE(A)	CASE(B)	CASE(C)	CASE(D)
1.0000	1.0000	1.0000	1.0000

ELEMENT NUMBER	NODE (N)	NODES DEFINING (NI)	CONSTRAINT (NJ)	DIRECTION (NK)	DIRECTION (NL)	CODE KD	CODE KR	GENERATION CODE (KN)	SPECIFIED DISPLACEMENT	SPECIFIED ROTATION	SPRING RATE
1	1	22	=0	=0	=0	1	=0	=0	0.	=0.	.1000E+11
2	1	23	=0	=0	=0	1	=0	=0	0.	=0.	.1000E+11
3	1	24	=0	=0	=0	1	=0	=0	0.	=0.	.1000E+11
4	7	25	=0	=0	=0	1	=0	=0	0.	=0.	.1000E+09
5	9	26	=0	=0	=0	1	=0	=0	0.	=0.	.1000E+09
6	11	27	=0	=0	=0	1	=0	=0	0.	=0.	.1000E+05
7	13	28	=0	=0	=0	1	=0	=0	0.	=0.	.1000E+05
8	15	29	=0	=0	=0	1	=0	=0	0.	=0.	.1000E+09

PIPE ELEMENT INPUT DATA

CONTROL INFORMATION

NUMBER OF PIPE ELEMENTS	#	20
NUMBER OF MATERIAL SETS	#	1
MAXIMUM NUMBER OF MATERIAL TEMPERATURE INPUT POINTS	#	1
NUMBER OF SECTION PROPERTY SETS	#	1
NUMBER OF BRANCH POINT NODES	#	0
MAXIMUM NUMBER OF TANGENTS COMMON TO A BRANCH POINT	#	3
FLAG FOR NEGLECTING AXIAL DEFORMATIONS IN BEND ELEMENTS (EQ.1, NEGLECT)	#	0

-86- MATERIAL PROPERTY TABLES

MATERIAL NUMBER	#	(1)
NUMBER OF TEMPERATURE POINTS	#	(1)
IDENTIFICATION	#	(ALLOY STEEL
1	-0.00	24000000.0 .300 .710E-05

SECTION PROPERTY TABLE

SECT NUM	OUTSIDE DIAMETER	WALL THICKNESS	SHAPE FACTOR FOR SHEAR	WEIGHT/ UNIT LENGTH	MASS/ UNIT LENGTH	DESCRIPTION
1	7.288	.2410	-0.0000	.2179E+01	.5639E-02	

ELEMENT LOAD CASE MULTIPLIERS

	CASE A	CASE B	CASE C	CASE D
X-DIRECTION GRAVITY	0.000	-0.000	-0.000	-0.000
Y-DIRECTION GRAVITY	1.000	-0.000	-0.000	-0.000
Z-DIRECTION GRAVITY	0.000	-0.000	-0.000	-0.000
THERMAL DISTORTION	1.000	-0.000	-0.000	-0.000
PRESSURE DISTURTION	1.000	-0.000	-0.000	-0.000

PIPE ELEMENT INPUT DATA

-88-

ELEMENT NUMBER	ELEMENT TYPE	NODE -I	NODE -J	MATL. NUMBER	SECTION NUMBER	REFERENCE TEMPERATURE (BEND RADIUS)	INTERNAL PRESSURE (THIRD POINT)	D I R E C T I O N A(YX) (X3= ORDINATE)	C O S I N E S A(YV) (Y3= ORDINATE)	N O D E S A(YZ) (Z3= ORDINATE)	NODE INCREMENT (WALL FRACTION)	INPUT TAG
1	TANGENT	1	2	1	1	-0.00	350.00	-0.0000	-0.0000	-0.0000	1	II
2	TANGENT	2	3	1	1	-0.00	350.00	-0.0000	-0.0000	-0.0000	1	II
3	BEND	3	4	1	1	-0.00 (36.300)	350.00 (CC)	-0.0000 (36.300)	-0.0000 (108.900)	-0.0000 (0.000)	1 (.1000)	IC
4	BEND	4	5	1	1	-0.00 (36.300)	350.00 (CC)	-0.0000 (36.300)	-0.0000 (108.900)	-0.0000 (0.000)	1 (.1000)	IC
5	TANGENT	5	6	1	1	-0.00	350.00	-0.0000	-0.0000	-0.0000	1	II
6	TANGENT	6	7	1	1	-0.00	350.00	-0.0000	-0.0000	-0.0000	1	II
7	BEND	7	8	1	1	-0.00 (36.300)	350.00 (CC)	-0.0000 (72.000)	-0.0000 (145.200)	-0.0000 (36.300)	1 (.1000)	IC
8	BEND	8	9	1	1	-0.00 (36.300)	350.00 (CC)	-0.0000 (72.000)	-0.0000 (145.200)	-0.0000 (36.300)	1 (.1000)	IC
9	TANGENT	9	10	1	1	-0.00	350.00	-0.0000	-0.0000	-0.0000	1	II
10	TANGENT	10	11	1	1	-0.00	350.00	-0.0000	-0.0000	-0.0000	1	II
11	TANGENT	11	12	1	1	-0.00	350.00	-0.0000	-0.0000	-0.0000	1	II
12	TANGENT	12	13	1	1	-0.00	350.00	-0.0000	-0.0000	-0.0000	1	II
13	TANGENT	13	14	1	1	-0.00	350.00	-0.0000	-0.0000	-0.0000	1	II
14	BEND	14	15	1	1	-0.00 (36.300)	350.00 (CC)	-0.0000 (108.300)	-0.0000 (181.500)	-0.0000 (188.800)	1 (.1000)	IC
15	TANGENT	15	16	1	1	-0.00	350.00	-0.0000	-0.0000	-0.0000	1	II
16	TANGENT	16	17	1	1	-0.00	350.00	-0.0000	-0.0000	-0.0000	1	II
17	TANGENT	12	18	1	1	-0.00	350.00	-0.0000	-0.0000	-0.0000	1	II
18	TANGENT	18	19	1	1	-0.00	350.00	-0.0000	-0.0000	-0.0000	1	II
19	BEND	19	20	1	1	-0.00 (36.300)	350.00 (CC)	-0.0000 (188.300)	-0.0000 (145.200)	-0.0000 (61.500)	1 (.1000)	IC
20	TANGENT	20	21	1	1	-0.00	350.00	-0.0000	-0.0000	-0.0000	1	II

MODE NUMB	CIRCULAR FREQUENCY (RAD/SEC)	FREQUENCY (CYCLES/SEC)	PERIOD (SEC)
1	.4472E+02	.7118E+01	.1405E+00
2	.7945E+02	.1265E+02	.7908E-01
3	.9929E+02	.1580E+02	.6328E-01
4	.1080E+03	.1719E+02	.5819E-01
5	.1344E+03	.2139E+02	.4674E-01
6	.1572E+03	.2501E+02	.3998E-01
7	.1796E+03	.2859E+02	.3498E-01
8	.2288E+03	.3641E+02	.2747E-01
9	.2555E+03	.4067E+02	.2459E-01
10	.3062E+03	.4873E+02	.2052E-01

N O D A L L O A D S (S T A T I C) O R M A S S E S (D Y N A M I C)

NODE NUMBER	LOAD CASE	X-AXIS FORCE	Y-AXIS FORCE	Z-AXIS FORCE	X-AXIS MOMENT	Y-AXIS MOMENT	Z-AXIS MOMENT
18	0	1.51800E+00	1.51800E+00	1.51800E+00	-0.	-0.	-0.

STRUCTURE LOAD CASE	ELEMENT A	LOAD B	MULTIPLIERS C	D
1	-0.000	-0.000	-0.000	-0.000

MODAL ANALYSIS

MODE NUMBER 1
FREQUENCY = 7.11809 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	-7.04237E-08	-1.06546E-07	-9.23226E-09	0.	0.	0.
2	-4.32321E-02	-4.53164E-04	-6.94403E-03	-1.90243E-04	4.61739E-05	1.09353E-03
3	-7.54170E-02	-9.06103E-04	-1.50175E-02	-4.44808E-05	9.23477E-05	-3.87131E-04
4	-2.50960E-02	-2.89950E-02	-1.24017E-02	3.50516E-04	4.69510E-05	-3.81535E-03
5	2.70789E-02	-1.69306E-01	-6.49326E-03	7.30370E-04	-1.12753E-04	-6.63097E-03
6	2.69895E-02	-2.92184E-01	-3.98101E-03	9.46927E-04	-1.79873E-04	-6.98732E-03
7	2.68993E-02	-4.17837E-01	-1.82640E-06	1.16348E-03	-2.76998E-04	-6.95061E-03
8	2.04463E-02	-5.95168E-01	1.27490E-02	1.14623E-03	-7.43230E-04	-5.48118E-03
9	8.08580E-06	-6.64332E-01	2.12758E-02	1.19860E-04	-6.26154E-04	-3.53432E-03
10	-1.04559E-02	-6.61512E-01	2.12331E-02	-4.74214E-04	-4.19785E-04	-2.23816E-03
11	-1.74936E-02	-6.44128E-01	2.11895E-02	-1.27507E-03	-2.92282E-04	-9.41991E-04
12	-2.27362E-02	-6.08767E-01	2.11539E-02	-2.20263E-03	-2.45351E-04	3.54175E-04
13	-3.17135E-02	-5.45620E-01	2.11523E-02	-3.84171E-03	-6.03965E-04	2.18027E-04
14	-1.02845E-01	-1.65756E-01	2.13304E-02	-5.85808E-03	-1.25635E-03	-2.50189E-04
15	-1.29660E-01	-8.95276E-04	-9.19754E-02	-9.87634E-04	-1.28717E-03	-8.57466E-04
16	-7.20343E-02	-4.45633E-04	-8.35660E-02	1.06120E-03	-1.28717E-03	-1.23067E-03
17	0.	0.	0.	1.76722E-03	-1.28717E-03	-1.38064E-03
18	-2.26357E-02	-5.44837E-01	1.77333E-02	-4.75593E-05	3.24042E-04	3.08147E-03
19	-2.25106E-02	-3.71100E-01	1.18591E-03	2.10751E-03	3.85245E-04	5.05354E-03
20	-1.35274E-02	-7.40034E-02	9.21671E-05	2.87278E-03	-4.66131E-04	2.89977E-03

MODAL ANALYSIS

MODE NUMBER 1
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	1.06007E-07	1.60381E-07	1.38970E-08	0.	0.	0.
2	6.50761E-02	6.82134E-04	1.04526E-02	2.86367E-04	-6.95042E-05	-1.64606E-03
3	1.13523E-01	1.36393E-03	2.26054E-02	6.69556E-05	-1.39008E-04	5.82738E-04
4	3.77763E-02	4.36454E-02	1.86679E-02	-5.27622E-04	-7.06740E-05	5.74313E-03
5	-4.07611E-02	2.54851E-01	9.77411E-03	-1.09940E-03	1.69724E-04	9.98140E-03
6	-4.06265E-02	4.39816E-01	5.99250E-03	-1.42538E-03	2.70757E-04	1.05178E-02
7	-4.04908E-02	6.28957E-01	2.74922E-06	-1.75136E-03	4.16957E-04	1.04625E-02
8	-3.07773E-02	8.95889E-01	-1.91907E-02	-1.72538E-03	1.11876E-03	8.25066E-03
9	-1.21714E-05	1.00000E+00	-3.20259E-02	-1.80422E-04	9.42532E-04	5.32011E-03
10	1.57390E-02	9.95754E-01	-3.19615E-02	7.13821E-04	6.31890E-04	3.36903E-03
11	2.63325E-02	9.69587E-01	-3.18959E-02	1.91932E-03	4.39963E-04	1.41795E-03
12	3.42242E-02	9.16360E-01	-3.18424E-02	3.31556E-03	3.69320E-04	-5.33129E-04
13	4.77374E-02	8.21306E-01	-3.18400E-02	5.78282E-03	9.09131E-04	-3.28189E-04
14	1.54809E-01	2.49507E-01	-3.21081E-02	8.81800E-03	1.89114E-03	3.76603E-04
15	1.95173E-01	1.34763E-03	1.38448E-01	1.48668E-03	1.93753E-03	1.29072E-03
16	1.08431E-01	6.70798E-04	1.25789E-01	-1.59740E-03	1.93753E-03	1.85249E-03
17	0.	0.	0.	-2.66015E-03	1.93753E-03	2.07823E-03
18	3.40729E-02	8.20127E-01	-2.66934E-02	7.15897E-05	-4.87771E-04	-4.63844E-03
19	3.38845E-02	5.58606E-01	-1.78511E-03	-3.17238E-03	-5.79898E-04	-7.60695E-03
20	2.03624E-02	1.11395E-01	-1.38736E-04	-4.32431E-03	7.01653E-04	-4.36493E-03
21	0.	0.	0.	0.	0.	0.
22	0.	0.	0.	0.	0.	0.
23	0.	0.	0.	0.	0.	0.
24	0.	0.	0.	0.	0.	0.
25	0.	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.	0.
27	0.	0.	0.	0.	0.	0.
28	0.	0.	0.	0.	0.	0.
29	0.	0.	0.	0.	0.	0.

M A L A N A L Y S I S

MODE NUMBER 2
FREQUENCY 12.6452 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	-1.17905E-08	-8.29092E-08	-1.23739E-07	0.	0.	0.
2	1.65761E-02	-3.52631E-04	-1.66941E-01	-5.26314E-03	-3.14826E-03	-6.91636E-04
3	8.37860E-02	-7.04888E-04	-5.05179E-01	-6.51912E-03	-6.29652E-03	-1.88238E-03
4	1.52903E-01	-3.30046E-02	-5.82740E-01	-5.55844E-03	-8.25898E-03	-3.57612E-03
5	1.95666E-01	-1.41628E-01	-3.93233E-01	-4.82632E-03	-1.05964E-02	-4.57528E-03
6	1.95583E-01	-2.23762E-01	-1.99171E-01	-4.64184E-03	-1.10367E-02	-4.52727E-03
7	1.95484E-01	-3.02685E-01	1.93028E-05	-4.45737E-03	-1.11522E-02	-4.23664E-03
8	9.35723E-02	-3.47602E-01	2.62320E-01	-4.40021E-03	-7.81063E-03	-2.76196E-03
9	4.10000E-05	-2.58669E-01	3.18977E-01	-4.33941E-03	8.52663E-04	-1.52059E-03
10	5.03555E-02	-1.71325E-01	3.19339E-01	-4.13226E-03	3.52674E-03	-7.05956E-04
11	1.38588E-01	-8.99381E-02	3.19663E-01	-3.73718E-03	4.55815E-03	1.08681E-04
12	2.31324E-01	-1.90539E-02	3.20459E-01	-3.08338E-03	3.98330E-03	9.23318E-04
13	3.23489E-01	3.79783E-02	3.20739E-01	-2.41718E-03	4.80156E-03	1.63604E-03
14	6.72747E-01	9.89491E-02	3.23176E-01	9.52527E-04	4.32209E-03	4.08711E-03
15	5.97989E-01	2.02280E-03	4.25622E-01	6.34653E-04	2.57756E-03	5.36027E-03
16	3.10211E-01	1.00715E-03	3.13290E-01	-4.40305E-03	2.57756E-03	5.46690E-03
17	0.	0.	0.	-6.43352E-03	2.57756E-03	5.87012E-03
18	2.31772E-01	1.84261E-02	2.26459E-01	-2.48723E-03	1.86343E-03	8.61922E-04
19	2.31423E-01	4.72649E-02	1.35836E-01	-1.89107E-03	2.77697E-03	9.75672E-04
20	8.57982E-02	1.57953E-02	-9.05605E-06	-7.17528E-04	3.39854E-03	2.25051E-04

MODAL ANALYSIS

MODE NUMBER 2
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	-1.75259E-08	-1.23240E-07	-1.83931E-07	0.	0.	0.
2	2.46395E-02	-5.24165E-04	-2.48148E-01	-7.82336E-03	-4.67971E-03	-1.02808E-03
3	1.24543E-01	-1.04777E-03	-7.50920E-01	-9.69030E-03	-9.35942E-03	-2.79805E-03
4	2.27281E-01	-4.90595E-02	-8.66209E-01	-8.26229E-03	-1.22765E-02	-5.31570E-03
5	2.90846E-01	-2.10521E-01	-5.84518E-01	-7.17405E-03	-1.57509E-02	-6.80090E-03
6	2.90723E-01	-3.32609E-01	-2.96056E-01	-6.89983E-03	-1.64054E-02	-6.72952E-03
7	2.90575E-01	-4.49925E-01	2.86924E-05	-6.62562E-03	-1.65770E-02	-6.29754E-03
8	1.59090E-01	-5.16691E-01	3.89923E-01	-6.54066E-03	-1.16101E-02	-4.10550E-03
9	6.09442E-05	-3.84496E-01	4.74141E-01	-6.45028E-03	1.26743E-03	-2.26027E-03
10	7.48506E-02	-2.54665E-01	4.74679E-01	-6.14237E-03	5.24230E-03	-1.04936E-03
11	2.06002E-01	-1.33688E-01	4.75161E-01	-5.55510E-03	6.77543E-03	1.61548E-04
12	3.83850E-01	-2.83225E-02	4.76343E-01	-4.58327E-03	5.92094E-03	1.37246E-03
13	4.80848E-01	5.64525E-02	4.76760E-01	-3.59300E-03	7.13724E-03	2.43188E-03
14	1.00000E+00	1.47082E-01	4.80382E-01	1.41588E-03	6.42454E-03	6.07525E-03
15	8.88876E-01	3.00677E-03	6.32663E-01	9.43375E-04	3.83140E-03	7.96773E-03
16	4.61111E-01	1.49707E-03	4.65687E-01	-6.54488E-03	3.83140E-03	8.12623E-03
17	0.	0.	0.	-9.56305E-03	3.83140E-03	8.72560E-03
18	3.44516E-01	2.73894E-02	3.36619E-01	-3.69712E-03	2.76988E-03	1.28120E-03
19	3.43997E-01	7.02566E-02	2.01913E-01	-2.81097E-03	4.12781E-03	8.55703E-04
20	1.27534E-01	2.34788E-02	-1.34622E-05	-1.06656E-03	5.05173E-03	3.34526E-04
21	0.	0.	0.	0.	0.	0.
22	0.	0.	0.	0.	0.	0.
23	0.	0.	0.	0.	0.	0.
24	0.	0.	0.	0.	0.	0.
25	0.	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.	0.
27	0.	0.	0.	0.	0.	0.
28	0.	0.	0.	0.	0.	0.
29	0.	0.	0.	0.	0.	0.

GLOBAL ANALYSIS

MODE NUMBER 3
FREQUENCY 15.8032 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	3.40540E-08	-6.43144E-08	-6.59216E-08	0.	0.	0.
2	5.33099E-02	-2.73543E-04	-8.02381E-02	-2.48440E-03	-1.64702E-03	-1.71904E-03
3	1.70781E-01	-5.46670E-04	-2.36565E-01	-2.96536E-03	-3.29403E-03	-2.47001E-03
4	2.40552E-01	-3.06954E-02	-2.66687E-01	-2.61091E-03	-4.25000E-03	-2.98008E-03
5	2.73247E-01	-1.10936E-01	-1.72921E-01	-2.63532E-03	-4.95219E-03	-3.11650E-03
6	2.73114E-01	-1.65540E-01	-8.42911E-02	-2.77770E-03	-4.85376E-03	-2.93514E-03
7	2.72944E-01	-2.15377E-01	-4.74469E-05	-2.92008E-03	-4.44834E-03	-2.60672E-03
8	2.20682E-01	-2.32807E-01	1.16062E-01	-3.33921E-03	-6.03062E-03	-1.33473E-03
9	-3.69765E-05	-1.53142E-01	1.96501E-01	-3.51340E-03	-1.07691E-02	-5.40196E-04
10	-2.28761E-01	-8.28106E-02	1.95806E-01	-3.25171E-03	-1.05950E-02	-8.68561E-05
11	-4.23757E-01	-2.10220E-02	1.95076E-01	-2.66403E-03	-7.52263E-03	3.66484E-04
12	-5.27238E-01	2.50528E-02	1.94621E-01	-1.70658E-03	-1.74845E-03	8.19824E-04
13	-5.34183E-01	4.84124E-02	1.94446E-01	-6.38645E-04	1.14547E-03	4.33745E-04
14	-1.52686E-01	1.60422E-02	1.94635E-01	9.26172E-04	8.65578E-03	-8.93989E-04
15	2.66781E-01	-8.45771E-05	1.90636E-01	-8.79027E-04	1.12264E-02	4.19870E-05
16	1.90631E-01	-4.21206E-05	1.18254E-01	-1.82449E-03	1.12264E-02	2.68696E-03
17	0.	0.	0.	-2.35497E-03	1.12264E-02	3.91115E-03
18	-5.26252E-01	7.04267E-02	1.23075E-01	-1.75624E-03	4.41796E-03	1.00306E-03
19	-5.26430E-01	9.43252E-02	-8.25057E-02	-1.80590E-03	4.07262E-03	2.49986E-04
20	-2.77952E-01	2.96865E-02	1.32156E-03	-1.22065E-03	-9.85367E-03	-1.43301E-04

MODAL ANALYSIS

MODE NUMBER 3
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	-6.37496E-08	1.20398E-07	1.23406E-07	0.	0.	0.
2	-9.97969E-02	5.12077E-04	1.50207E-01	4.65083E-03	3.08324E-03	3.21806E-03
3	-3.19705E-01	1.02336E-03	4.42853E-01	5.55120E-03	6.16648E-03	4.62391E-03
4	-4.50316E-01	5.74623E-02	4.99242E-01	4.88767E-03	7.95607E-03	5.57876E-03
5	-5.11522E-01	2.07673E-01	3.23711E-01	4.93336E-03	9.27058E-03	5.83414E-03
6	-5.11275E-01	3.09893E-01	1.57794E-01	5.19989E-03	9.10504E-03	5.49462E-03
7	-5.10956E-01	4.03189E-01	8.88214E-05	5.46643E-03	8.32737E-03	4.87982E-03
8	-4.13120E-01	4.35819E-01	-2.17270E-01	6.25105E-03	1.12894E-02	2.49863E-03
9	6.92244E-05	2.86684E-01	-3.67852E-01	6.57715E-03	2.01599E-02	1.01126E-03
10	4.28244E-01	1.55023E-01	-3.66552E-01	6.08726E-03	1.98339E-02	1.62596E-04
11	7.93279E-01	3.93536E-02	-3.65185E-01	4.98711E-03	1.40825E-02	-6.86064E-04
12	9.86998E-01	-4.68992E-02	-3.64335E-01	3.19475E-03	3.27312E-03	-1.53472E-03
13	1.00000E+00	-9.06288E-02	-3.64006E-01	1.19555E-03	-2.14435E-03	-8.11978E-04
14	2.85830E-01	-3.01062E-02	-3.64360E-01	-1.73381E-03	-1.62038E-02	1.67356E-03
15	-4.99418E-01	1.56330E-04	-3.56878E-01	1.64555E-03	-2.10161E-02	-7.86004E-05
16	-3.56864E-01	7.88504E-05	-2.21374E-01	3.41548E-03	-2.10161E-02	-5.03004E-03
17	0.	0.	0.	4.40853E-03	-2.10161E-02	-7.32174E-03
18	9.88897E-01	-1.31840E-01	-2.30399E-01	3.28771E-03	-8.27049E-03	-1.87774E-03
19	9.85485E-01	-1.76578E-01	1.54452E-01	3.38067E-03	-7.62401E-03	-4.67977E-04
20	5.20331E-01	-5.55737E-02	-2.47399E-03	2.28507E-03	1.84462E-02	2.68262E-04
21	0.	0.	0.	0.	0.	0.
22	0.	0.	0.	0.	0.	0.
23	0.	0.	0.	0.	0.	0.
24	0.	0.	0.	0.	0.	0.
25	0.	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.	0.
27	0.	0.	0.	0.	0.	0.
28	0.	0.	0.	0.	0.	0.
29	0.	0.	0.	0.	0.	0.

MODE NUMBER 4
 FREQUENCY 17.1855 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	2.87274E-07	4.16983E-07	-1.71495E-07	0.	0.	0.
2	1.82765E-01	1.77352E-03	-1.45475E-01	-4.13941E-03	-1.36811E-03	-4.69626E-03
3	3.50544E-01	3.54392E-03	-3.58856E-01	-2.85992E-03	-2.73621E-03	9.10977E-05
4	2.23781E-01	7.76455E-02	-3.46277E-01	1.12592E-03	-4.09863E-03	1.01944E-02
5	8.72103E-02	4.37098E-01	-1.94837E-01	4.05513E-03	-5.47775E-03	1.59845E-02
6	8.73092E-02	7.25803E-01	-9.60916E-02	5.57512E-03	-5.47814E-03	1.58691E-02
7	8.73939E-02	1.00090E+00	-2.62843E-06	7.09512E-03	-5.16340E-03	1.45861E-02
8	4.66849E-02	1.19416E+00	1.08980E-01	1.09075E-02	-3.04978E-03	7.52250E-03
9	1.80764E-06	9.06084E-01	1.32945E-01	1.51105E-02	-8.09173E-04	2.06610E-03
10	-1.04068E-02	5.91138E-01	1.32971E-01	1.51535E-02	-3.02306E-04	-9.69451E-04
11	-1.35102E-02	2.90882E-01	1.32968E-01	1.35425E-02	-9.88443E-05	-4.00500E-03
12	-1.56082E-02	4.31090E-02	1.33161E-01	9.97269E-03	-2.07299E-04	-7.04056E-03
13	-2.21967E-02	-1.14936E-01	1.33092E-01	5.66097E-03	-4.01549E-04	-6.33670E-03
14	-3.81655E-02	-1.43365E-01	1.33384E-01	-3.08193E-03	-4.68223E-04	-3.91614E-03
15	1.03419E-02	-2.06326E-03	8.86775E-03	-1.89765E-03	-6.88268E-04	-1.15605E-03
16	3.21875E-02	-1.02765E-03	-3.41100E-02	1.22095E-04	-6.88268E-04	2.32542E-04
17	0.	0.	0.	8.61876E-04	-6.88268E-04	7.60294E-04
18	-1.53451E-02	-2.88657E-01	1.27162E-01	1.01001E-02	1.03915E-03	-7.35325E-03
19	-1.49847E-02	-4.90064E-01	5.03729E-02	1.02276E-02	2.25622E-03	-2.96518E-03
20	-2.83641E-02	-1.68199E-01	4.76212E-04	6.91128E-03	-7.95376E-04	2.03045E-04

MODAL ANALYSIS

MODE NUMBER 4
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	2.40566E-07	3.49185E-07	-1.43611E-07	0.	0.	0.
2	1.53049E-01	1.48516E-03	-1.21822E-01	-3.46638E-03	-1.14566E-03	-3.93269E-03
3	2.93548E-01	2.96771E-03	-3.00509E-01	-2.39492E-03	-2.29133E-03	7.62859E-05
4	1.87396E-01	6.50210E-02	-2.89976E-01	9.42851E-04	-3.43223E-03	8.53684E-03
5	7.30306E-02	3.66030E-01	-1.63158E-01	3.39580E-03	-4.58711E-03	1.33856E-02
6	7.31135E-02	6.07793E-01	-8.04679E-02	4.66865E-03	-4.58744E-03	1.32889E-02
7	7.31844E-02	8.38164E-01	-2.20107E-06	5.94151E-03	-4.52388E-03	1.22145E-02
8	3.90944E-02	1.00000E+00	9.12605E-02	9.13403E-03	-2.55391E-03	6.29940E-03
9	1.51373E-06	7.58762E-01	1.11329E-01	1.26536E-02	-6.77608E-04	1.73017E-03
10	-8.71472E-03	4.95024E-01	1.11351E-01	1.26897E-02	-2.53154E-04	-8.11826E-04
11	-1.13135E-02	2.43587E-01	1.11349E-01	1.13406E-02	-8.27731E-05	-3.35382E-03
12	-1.30704E-02	3.60999E-02	1.11510E-01	8.35121E-03	-1.73594E-04	-5.89582E-03
13	-1.85877E-02	-9.62480E-02	1.11452E-01	4.74054E-03	-3.36261E-04	-5.30641E-03
14	-4.87083E-02	-1.20055E-01	1.11697E-01	-2.58083E-03	-3.92094E-04	-3.27941E-03
15	8.66038E-03	-1.72779E-03	7.42592E-03	-1.58911E-03	-5.76361E-04	-9.68082E-04
16	2.69541E-02	-8.60564E-04	-2.85640E-02	1.02244E-04	-5.76361E-04	1.94732E-04
17	0.	0.	0.	7.21743E-04	-5.76361E-04	6.36676E-04
18	-1.28502E-02	-2.41724E-01	1.06487E-01	8.45795E-03	8.70194E-04	-6.15767E-03
19	-1.29483E-02	-4.10383E-01	4.21827E-02	8.56468E-03	1.88938E-03	-2.48306E-03
20	-2.37523E-02	-1.40852E-01	3.98784E-04	5.78757E-03	-6.66055E-04	1.70031E-04
21	0.	0.	0.	0.	0.	0.
22	0.	0.	0.	0.	0.	0.
23	0.	0.	0.	0.	0.	0.
24	0.	0.	0.	0.	0.	0.
25	0.	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.	0.
27	0.	0.	0.	0.	0.	0.
28	0.	0.	0.	0.	0.	0.
29	0.	0.	0.	0.	0.	0.

MODAL ANALYSIS

MODE NUMBER 5
FREQUENCY # 21.3944 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	-8.97187E-08	-8.80753E-08	-4.85691E-07	0.	0.	0.
2	-6.29425E-02	-3.77155E-04	-4.06353E-01	-1.15158E-02	-6.61223E-03	1.68204E-03
3	-1.37509E-01	-7.53332E-04	-1.01837E+00	-9.13699E-03	-1.32245E-02	6.72138E-04
4	-1.28679E-01	-8.63997E-03	-9.94546E-01	-2.60402E-03	-1.74667E-02	-1.31442E-03
5	-1.10758E-01	-5.41397E-02	-5.34966E-01	-8.32113E-04	-1.76941E-02	-1.78806E-03
6	-1.10665E-01	-8.43437E-02	-2.34194E-01	-4.50056E-04	-1.51399E-02	-1.48840E-03
7	-1.10543E-01	-1.06667E-01	-1.36828E-04	-6.79994E-05	-1.01561E-02	-9.27786E-04
8	-1.08934E-01	-1.04188E-01	5.82029E-02	2.10157E-04	3.11670E-03	1.39876E-03
9	-1.47370E-06	-8.99482E-02	1.16917E-02	5.12670E-04	3.54351E-03	3.31294E-03
10	6.04460E-02	-1.03070E-01	1.04751E-02	8.02093E-04	2.13384E-03	4.60684E-03
11	8.50800E-02	-1.23440E-01	9.25494E-03	1.25619E-03	7.08790E-05	5.90074E-03
12	6.12416E-02	-1.55642E-01	8.04170E-03	2.00029E-03	-2.56511E-03	7.19465E-03
13	-1.95165E-02	-2.14707E-01	6.55231E-03	3.21011E-03	-4.99877E-03	5.61489E-03
14	-4.82440E-01	-3.23113E-01	1.47842E-03	-2.68238E-03	-6.14629E-03	1.82064E-04
15	-5.40577E-01	-4.42627E-03	-3.82813E-01	-7.07886E-03	-3.04428E-03	-3.40469E-03
16	-3.29895E-01	-2.20552E-03	-4.43279E-01	4.53719E-03	-3.04428E-03	-4.98001E-03
17	0.	0.	0.	9.86762E-03	-3.04428E-03	-6.61929E-03
18	6.20555E-02	1.64402E-01	8.96940E-02	-9.11814E-04	-8.13339E-04	6.89941E-03
19	6.22586E-02	3.49321E-01	6.65413E-02	-3.82392E-03	1.49886E-03	2.59435E-03
20	9.46785E-03	1.38389E-01	4.74965E-04	-5.33635E-03	5.86565E-04	-7.15612E-04

MODAL ANALYSIS

MODE NUMBER 5
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	8.81007E-08	8.70761E-08	4.76932E-07	0.	0.	0.
2	6.18074E-02	3.70353E-04	3.99025E-01	1.13081E-02	6.49299E-03	-1.65171E-03
3	1.35029E-01	7.39746E-04	1.00000E+00	8.97221E-03	1.29860E-02	-6.60017E-04
4	1.26359E-01	8.48415E-03	9.76611E-01	2.55706E-03	1.71517E-02	1.29072E-03
5	1.08760E-01	5.31633E-02	5.25318E-01	8.17107E-04	1.73750E-02	1.75582E-03
6	1.08669E-01	8.20226E-02	2.29971E-01	4.41940E-04	1.48669E-02	1.46156E-03
7	1.08550E-01	1.04744E-01	1.34361E-04	6.67731E-05	9.97296E-03	9.11054E-04
8	1.08969E-01	1.02309E-01	-5.71532E-02	-2.06367E-04	-3.06049E-03	-1.37354E-03
9	1.44713E-06	8.83260E-02	-1.14809E-02	-5.03425E-04	-3.47961E-03	-3.25319E-03
10	-5.93559E-02	1.01212E-01	-1.02862E-02	-7.87628E-04	-2.09536E-03	-4.52376E-03
11	-8.35457E-02	1.21214E-01	-9.08804E-03	-1.23353E-03	-6.96007E-05	-5.79433E-03
12	-6.01372E-02	1.52835E-01	-7.89667E-03	-1.96422E-03	2.51885E-03	-7.06490E-03
13	1.91645E-02	2.10835E-01	-6.43415E-03	-3.15222E-03	4.90863E-03	-9.51363E-03
14	4.73740E-01	3.17286E-01	-1.45176E-03	2.63400E-03	6.03544E-03	-1.78780E-04
15	5.30829E-01	4.34645E-03	3.75910E-01	6.95119E-03	2.98938E-03	3.34329E-03
16	3.23946E-01	2.16574E-03	4.35285E-01	-4.45537E-03	2.98938E-03	4.89020E-03
17	0.	0.	0.	-9.68966E-03	2.98938E-03	6.49992E-03
18	-6.09363E-02	-1.61438E-01	-8.80764E-02	8.95370E-04	7.98671E-04	-6.77499E-03
19	-6.11358E-02	-3.43021E-01	-6.53413E-02	3.75496E-03	-1.47183E-03	-2.54757E-03
20	-9.29711E-03	-1.35893E-01	-4.66399E-04	5.24012E-03	-5.75987E-04	7.02707E-04
21	0.	0.	0.	0.	0.	0.
22	0.	0.	0.	0.	0.	0.
23	0.	0.	0.	0.	0.	0.
24	0.	0.	0.	0.	0.	0.
25	0.	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.	0.
27	0.	0.	0.	0.	0.	0.
28	0.	0.	0.	0.	0.	0.
29	0.	0.	0.	0.	0.	0.

GLOBAL ANALYSIS

MODE NUMBER 6
FREQUENCY = 25.0137 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	1.82723E-07	3.57613E-09	4.08607E-07	0.	0.	0.
2	1.26919E-01	1.52101E-05	3.08298E-01	8.45535E-03	5.76301E-03	-3.37902E-03
3	2.82915E-01	3.03675E-05	7.36441E-01	6.04369E-03	1.15260E-02	-1.74383E-03
4	2.89406E-01	2.84709E-03	6.83694E-01	2.00044E-03	1.47630E-02	1.07025E-03
5	2.71993E-01	4.83644E-02	3.25849E-01	2.92995E-03	1.26984E-02	2.10319E-03
6	2.71603E-01	8.72223E-02	1.21314E-01	4.01047E-03	9.29080E-03	2.27016E-03
7	2.71119E-01	1.29634E-01	1.66691E-04	5.09099E-03	3.31060E-03	2.53340E-03
8	1.87985E-01	1.45042E-01	1.37384E-01	6.59664E-03	-9.88495E-03	3.98299E-03
9	1.24194E-04	1.37563E-02	2.34085E-01	7.04695E-03	-1.58920E-03	6.08402E-03
10	1.64652E-02	-1.27877E-01	2.35485E-01	6.53591E-03	1.94445E-03	7.71930E-03
11	6.56478E-02	-2.51865E-01	2.36778E-01	5.38704E-03	1.62281E-03	9.35458E-03
12	6.90299E-02	-3.47506E-01	2.38331E-01	3.90151E-03	-2.49219E-03	1.09899E-02
13	1.43604E-02	-4.25290E-01	2.37698E-01	3.09034E-03	-2.76513E-03	9.43477E-03
14	-1.61012E-01	-3.68907E-01	2.36054E-01	-5.69200E-03	-1.60183E-03	4.08678E-03
15	-2.11136E-01	-4.59773E-03	-1.47443E-01	-6.98941E-03	7.16115E-04	-1.79607E-04
16	-1.59931E-01	-2.29194E-03	-2.74652E-01	2.13770E-03	7.16115E-04	-2.03041E-03
17	0.	0.	0.	6.41818E-03	7.16115E-04	-3.38242E-03
18	7.12637E-02	1.26145E-01	4.11245E-01	-3.39377E-04	-1.02620E-03	1.09121E-02
19	7.29388E-02	4.34032E-01	2.38852E-01	-4.58026E-03	7.40083E-03	4.96307E-03
20	-5.63277E-02	1.93445E-01	2.27611E-03	-7.35459E-03	-9.56798E-04	-4.73919E-04

MODAL ANALYSIS

MODE NUMBER 6
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	2.48116E-07	4.85597E-09	5.54841E-07	0.	0.	0.
2	1.72342E-01	2.06535E-05	4.18633E-01	1.14814E-02	7.82549E-03	-4.58831E-03
3	3.84165E-01	4.12355E-05	1.00000E+00	8.20662E-03	1.56510E-02	-2.36792E-03
4	3.92979E-01	3.86601E-03	9.28376E-01	2.71636E-03	2.00464E-02	1.45327E-03
5	3.69334E-01	6.56732E-02	4.42465E-01	3.97852E-03	1.72429E-02	2.85588E-03
6	3.68805E-01	1.18438E-01	1.64730E-01	5.44574E-03	1.26158E-02	3.08261E-03
7	3.68147E-01	1.76027E-01	2.26347E-04	6.91296E-03	4.49541E-03	3.44006E-03
8	2.55262E-01	1.96950E-01	1.86551E-01	8.95746E-03	-1.34226E-02	5.40843E-03
9	1.68641E-04	1.86822E-02	3.17859E-01	9.56892E-03	-2.13794E-03	8.26139E-03
10	2.23578E-02	-1.73642E-01	3.19761E-01	8.87499E-03	2.64033E-03	1.04819E-02
11	8.91420E-02	-3.42003E-01	3.21516E-01	7.31497E-03	2.20359E-03	1.27024E-02
12	9.37344E-02	-4.71872E-01	3.23626E-01	5.29779E-03	-3.38410E-03	1.49229E-02
13	1.94997E-02	-5.77493E-01	3.22765E-01	4.19631E-03	-3.75472E-03	1.28113E-02
14	-2.18635E-01	-5.00932E-01	3.20533E-01	-7.72906E-03	-2.17509E-03	5.54936E-03
15	-2.86698E-01	-6.24318E-03	-2.00210E-01	-9.49080E-03	9.72400E-04	-2.43884E-04
16	-2.17168E-01	-3.11219E-03	-3.72946E-01	2.90274E-03	9.72400E-04	-2.75706E-03
17	0.	0.	0.	8.71513E-03	9.72400E-04	-4.59292E-03
18	4.67677E-02	1.71290E-01	5.58423E-01	-4.60834E-04	-1.39345E-03	1.42742E-02
19	9.84991E-02	5.89365E-01	3.24333E-01	-6.21945E-03	1.00495E-02	6.73927E-03
20	-7.64864E-02	2.62676E-01	3.09069E-03	-9.98661E-03	-1.29922E-03	-6.43527E-04
21	0.	0.	0.	0.	0.	0.
22	0.	0.	0.	0.	0.	0.
23	0.	0.	0.	0.	0.	0.
24	0.	0.	0.	0.	0.	0.
25	0.	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.	0.
27	0.	0.	0.	0.	0.	0.
28	0.	0.	0.	0.	0.	0.
29	0.	0.	0.	0.	0.	0.

AL ANALYSIS

MODE NUMBER 7
FREQUENCY = 28.5917 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	2.63999E-07	2.16150E-07	-2.01902E-07	0.	0.	0.
2	1.42271E-01	9.19331E-04	-9.77390E-02	-2.17254E-03	5.75578E-04	-3.37227E-03
3	2.44946E-01	1.83457E-03	-1.39595E-01	1.37263E-03	1.15116E-03	4.64577E-04
4	1.57393E-01	4.98492E-02	-4.33131E-02	7.00898E-03	7.27920E-04	6.06842E-03
5	8.23497E-02	2.37129E-01	3.35605E-02	1.10240E-02	6.45131E-04	7.44696E-03
6	8.21012E-02	3.67129E-01	1.95249E-02	1.32955E-02	9.39721E-04	6.98884E-03
7	8.18154E-02	4.86366E-01	-3.87408E-05	1.55670E-02	1.25625E-03	6.41734E-03
8	8.46694E-02	4.50328E-01	-2.06989E-02	1.89682E-02	-9.67395E-04	6.37529E-03
9	-3.36049E-05	3.30478E-02	5.07836E-03	1.78991E-02	-4.85351E-03	9.87784E-03
10	-1.00402E-01	-3.11235E-01	4.47544E-03	1.48692E-02	-3.89058E-03	1.28250E-02
11	-1.47864E-01	-5.68286E-01	3.86904E-03	9.58515E-03	2.44675E-04	1.57721E-02
12	-7.95874E-02	-6.99113E-01	3.24595E-03	2.91291E-03	7.30769E-03	1.87192E-02
13	1.03050E-01	-7.07615E-01	4.65339E-03	-2.37875E-03	9.79824E-03	1.87493E-02
14	7.24188E-01	-1.32373E-01	9.59295E-03	-9.32929E-03	4.05547E-03	1.88525E-02
15	4.51916E-02	3.87501E-04	3.18305E-02	2.87392E-03	-4.13974E-03	1.07845E-02
16	-2.21195E-01	1.93262E-04	9.45276E-02	-5.73604E-04	-4.13974E-03	-5.91764E-04
17	0.	0.	0.	-2.28220E-03	-4.13974E-03	-5.67941E-03
18	-8.23652E-02	7.44556E-02	-3.28639E-01	-2.80929E-03	3.99510E-03	1.77415E-02
19	-8.36952E-02	6.44024E-01	-2.34698E-01	-8.53149E-03	-6.28621E-03	1.02631E-02
20	5.20605E-02	3.17721E-01	-2.55224E-03	-1.20441E-02	7.47943E-04	4.39524E-04

MODAL ANALYSIS

MODE NUMBER 7
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	3.64544E-07	2.98471E-07	-2.78797E-07	0.	0.	0.
2	1.96456E-01	1.26946E-03	-1.34964E-01	-2.99996E-03	7.94790E-04	-4.65662E-03
3	3.38235E-01	2.53328E-03	-1.92761E-01	1.89541E-03	1.58958E-03	6.41514E-04
4	2.17337E-01	6.88345E-02	-5.98042E-02	9.67840E-03	1.00515E-03	8.37962E-03
5	1.13713E-01	3.27441E-01	4.63022E-02	1.52225E-02	8.90833E-04	1.02832E-02
6	1.13370E-01	5.06953E-01	2.69679E-02	1.83542E-02	1.29762E-03	9.65059E-03
7	1.12975E-01	6.71602E-01	-5.34955E-05	2.14958E-02	1.73470E-03	8.86142E-03
8	1.16916E-01	6.21839E-01	-2.85822E-02	2.61924E-02	-1.33583E-03	8.80337E-03
9	-4.64036E-05	4.56342E-02	7.01249E-03	2.47161E-02	-6.70200E-03	1.36399E-02
10	-1.38640E-01	-4.29771E-01	6.17994E-03	2.05322E-02	-5.37233E-03	1.77094E-02
11	-2.04179E-01	-7.84721E-01	5.34370E-03	1.32357E-02	3.37861E-04	2.17790E-02
12	-1.09899E-01	-9.65375E-01	4.48219E-03	4.02232E-03	1.00909E-02	2.58486E-02
13	1.42297E-01	-9.77114E-01	6.42566E-03	-3.28471E-03	1.35300E-02	2.58900E-02
14	1.00000E+00	-1.82788E-01	1.32465E-02	-1.28824E-02	5.60002E-03	2.60326E-02
15	6.24031E-02	5.35084E-04	4.39533E-02	3.96847E-03	-5.71639E-03	1.48918E-02
16	-3.05439E-01	2.66867E-04	1.30529E-01	-7.92065E-04	-5.71639E-03	-8.17142E-04
17	0.	0.	0.	-3.15139E-03	-5.71639E-03	-7.84245E-03
18	-1.13734E-01	1.02812E-01	-4.53803E-01	-3.87922E-03	5.51666E-03	2.44984E-02
19	-1.15571E-01	8.89309E-01	-3.24084E-01	-1.17808E-02	-8.68035E-03	1.41719E-02
20	7.18881E-02	4.38727E-01	-3.52428E-03	-1.66311E-02	1.03280E-03	6.06920E-04
21	0.	0.	0.	0.	0.	0.
22	0.	0.	0.	0.	0.	0.
23	0.	0.	0.	0.	0.	0.
24	0.	0.	0.	0.	0.	0.
25	0.	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.	0.
27	0.	0.	0.	0.	0.	0.
28	0.	0.	0.	0.	0.	0.
29	0.	0.	0.	0.	0.	0.

MODAL ANALYSIS

MODE NUMBER 8
FREQUENCY = 36.4075 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	-6.96033E-08	3.99902E-07	-1.96089E-07	0.	0.	0.
2	-5.73578E-02	1.70087E-03	-7.97807E-02	-1.55402E-03	5.30365E-04	1.61814E-03
3	-1.61349E-01	3.38972E-03	-8.58183E-02	1.80915E-03	1.06073E-03	2.35995E-03
4	-2.48510E-01	4.59870E-02	7.67524E-03	6.18585E-03	8.66205E-04	4.84347E-03
5	-3.07438E-01	1.99601E-01	6.01655E-02	8.97925E-03	1.30997E-03	6.27751E-03
6	-3.06546E-01	3.07907E-01	3.32691E-02	1.05781E-02	1.68818E-03	5.53552E-03
7	-3.05430E-01	3.95943E-01	7.67236E-03	1.21770E-02	1.98947E-03	4.24620E-03
8	-2.47770E-01	3.10750E-01	-1.01644E-01	1.48330E-02	7.67058E-03	1.39650E-03
9	-9.42645E-05	-4.89970E-02	-1.99455E-01	1.26549E-02	7.92733E-03	2.77380E-03
10	1.24958E-01	-2.80262E-01	-1.97904E-01	9.16114E-03	3.80648E-03	4.22982E-03
11	1.51345E-01	-4.17671E-01	-1.96101E-01	3.78496E-03	-1.57067E-03	5.68584E-03
12	5.75587E-02	-4.32571E-01	-1.94554E-01	-2.37206E-03	-7.76281E-03	7.14186E-03
13	-1.50774E-01	-3.34106E-01	-1.93452E-01	-7.01928E-03	-1.13039E-02	2.45173E-03
14	-7.57019E-01	2.74258E-01	-1.89239E-01	-3.72904E-03	1.80779E-04	-1.36777E-02
15	3.87475E-01	1.41988E-03	2.75689E-01	1.28394E-02	1.71403E-02	-1.65764E-02
16	8.03877E-01	7.09073E-04	6.00233E-01	-3.37175E-03	1.71403E-02	4.63015E-03
17	0.	0.	0.	-1.46138E-02	1.71403E-02	1.95202E-02
18	6.00066E-02	-5.49491E-03	8.99651E-02	-5.51182E-03	-4.20438E-03	1.26891E-02
19	6.07443E-02	4.90458E-01	1.10589E-01	-8.65158E-03	2.01671E-03	1.03770E-02
20	-1.50256E-02	2.79196E-01	1.42096E-03	-1.03978E-02	3.15736E-05	1.71766E-03

MODAL ANALYSIS

MODE NUMBER 8
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	-8.65845E-08	4.97467E-07	-2.43929E-07	0.	0.	0.
2	-7.13515E-02	2.11583E-03	-9.92549E-02	-1.43316E-03	6.59758E-04	2.01292E-03
3	-2.00714E-01	4.21671E-03	-1.06755E-01	2.25053E-03	1.31952E-03	2.93571E-03
4	-3.09139E-01	5.72065E-02	9.54777E-03	7.69502E-03	1.07753E-03	6.02513E-03
5	-3.82443E-01	2.48298E-01	7.48442E-02	1.11699E-02	1.62956E-03	7.80904E-03
6	-3.81335E-01	3.83028E-01	4.13857E-02	1.31589E-02	2.10005E-03	6.88602E-03
7	-3.79946E-01	4.92542E-01	9.54419E-05	1.51478E-02	2.47485E-03	5.28215E-03
8	-3.08219E-01	3.86564E-01	-1.26443E-01	1.84518E-02	9.54198E-03	1.73721E-03
9	-1.17262E-04	-6.09508E-02	-2.48116E-01	1.57423E-02	9.86136E-03	3.45053E-03
10	1.55444E-01	-3.48638E-01	-2.46186E-01	1.13962E-02	4.73516E-03	5.26177E-03
11	1.88268E-01	-5.19571E-01	-2.44018E-01	4.70841E-03	-1.95387E-03	7.07302E-03
12	7.16014E-02	-5.38105E-01	-2.42025E-01	-2.95077E-03	-9.65671E-03	8.88426E-03
13	-1.87558E-01	-4.15618E-01	-2.40649E-01	-8.73178E-03	-1.40617E-02	3.04988E-03
14	-9.41710E-01	3.41169E-01	-2.35408E-01	-4.63881E-03	2.24884E-04	-1.70147E-02
15	4.82007E-01	1.76629E-03	3.42949E-01	1.59719E-02	2.13220E-02	-2.06206E-02
16	1.00000E+00	8.82066E-04	7.46673E-01	-4.19436E-03	2.13220E-02	5.75978E-03
17	0.	0.	0.	-1.81791E-02	2.13220E-02	2.42825E-02
18	7.46465E-02	-6.83551E-03	1.11939E-01	-6.85654E-03	-5.23013E-03	1.57849E-02
19	7.55641E-02	6.10115E-01	1.37570E-01	-1.07623E-02	2.50873E-03	1.29087E-02
20	-1.86914E-02	3.47312E-01	1.76763E-03	-1.29346E-02	3.92766E-05	2.13672E-03
21	0.	0.	0.	0.	0.	0.
22	0.	0.	0.	0.	0.	0.
23	0.	0.	0.	0.	0.	0.
24	0.	0.	0.	0.	0.	0.
25	0.	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.	0.
27	0.	0.	0.	0.	0.	0.
28	0.	0.	0.	0.	0.	0.
29	0.	0.	0.	0.	0.	0.

M I L A N A L Y S I S

MODE NUMBER 9
FREQUENCY = 40.6675 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	9.04264E-07	-1.71730E-07	7.69406E-08	0.	0.	0.
2	4.08624E-01	-7.30406E-04	2.95600E-02	5.45586E-04	-8.15624E-05	-8.66051E-03
3	6.30510E-01	-1.45441E-03	2.95151E-02	-6.71351E-04	-1.63125E-04	1.10757E-03
4	5.10047E-01	5.48009E-02	-4.68357E-03	-1.99709E-03	-9.68599E-05	5.16327E-03
5	4.74516E-01	8.73913E-02	-2.35038E-02	-2.67390E-03	-4.33898E-04	-3.48182E-03
6	4.71981E-01	-1.66401E-04	-1.38254E-02	-3.05810E-03	-6.54095E-04	-5.88469E-03
7	4.69014E-01	-1.19890E-01	-1.72354E-04	-3.44229E-03	-6.65803E-04	-7.08603E-03
8	3.85288E-01	-2.68302E-01	1.21989E-01	-4.59453E-03	-1.22899E-02	-6.93434E-03
9	3.39642E-04	-1.89073E-01	2.78562E-01	-6.45156E-03	-8.79509E-03	-5.72650E-03
10	-8.51492E-02	-5.59464E-02	2.75207E-01	-6.10564E-03	-3.28356E-04	-5.22253E-03
11	-2.27508E-02	5.58978E-02	2.71518E-01	-4.30420E-03	5.52421E-03	-4.71855E-03
12	1.30924E-01	1.15098E-01	2.67938E-01	-1.02959E-03	8.54756E-03	-4.21458E-03
13	1.66945E-01	9.94803E-02	2.68418E-01	2.26610E-03	-3.88233E-03	-7.32375E-03
14	-7.18763E-01	-1.63634E-01	2.69054E-01	1.35048E-03	-1.04720E-02	-1.80163E-02
15	1.95275E-02	-3.01899E-03	1.61916E-02	-6.82929E-03	3.07287E-03	-1.76358E-02
16	5.40838E-01	-1.50892E-03	-1.85619E-01	2.60249E-04	3.07287E-03	1.17659E-03
17	0.	0.	0.	4.87272E-03	3.07287E-03	1.40087E-02
18	1.34139E-01	2.44270E-02	-3.45273E-01	-4.70689E-04	9.89625E-03	-1.39843E-03
19	1.32585E-01	-2.51177E-02	-2.95286E-01	8.82134E-05	-8.25161E-03	-1.00078E-03
20	2.29099E-01	-2.17160E-02	-4.96501E-03	7.57131E-04	5.96008E-03	-1.47794E-04

MODAL ANALYSIS

MODE NUMBER 9
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	-1.25808E-06	2.38925E-07	-1.07046E-07	0.	0.	0.
2	-5.68510E-01	1.01620E-03	-4.11263E-02	-7.59062E-04	1.13476E-04	1.20492E-02
3	-8.77215E-01	2.02350E-03	-4.10638E-02	9.34036E-04	2.26952E-04	-1.54093E-03
4	-7.09618E-01	-7.62432E-02	6.51615E-03	2.77976E-03	1.34759E-04	-7.18355E-03
5	-6.60184E-01	-1.21586E-01	3.27003E-02	3.72014E-03	6.03674E-04	4.84418E-03
6	-6.56657E-01	2.31510E-04	1.92350E-02	4.25467E-03	9.10029E-04	8.18724E-03
7	-6.52529E-01	1.66801E-01	2.39793E-04	4.78919E-03	1.20457E-03	9.85864E-03
8	-5.36043E-01	3.73283E-01	-1.69720E-01	6.39227E-03	1.70986E-02	9.64760E-03
9	-4.72537E-04	2.63053E-01	-3.87558E-01	8.97592E-03	1.22364E-02	7.96716E-03
10	1.18466E-01	7.78398E-02	-3.82849E-01	8.49464E-03	4.56835E-04	7.26599E-03
11	3.16526E-02	-7.77694E-02	-3.77757E-01	5.98834E-03	-7.68571E-03	6.56482E-03
12	-1.82151E-01	-1.60134E-01	-3.72777E-01	1.43245E-03	-1.18920E-02	5.86366E-03
13	-2.32267E-01	-1.38405E-01	-3.73444E-01	-3.15278E-03	5.40140E-03	1.01894E-02
14	1.00000E+00	2.27660E-01	-3.74329E-01	-1.87889E-03	1.45694E-02	2.50657E-02
15	-2.71682E-02	4.20025E-03	-2.25270E-02	9.50144E-03	-4.27522E-03	2.45363E-02
16	-7.52457E-01	2.09933E-03	2.58248E-01	-3.62079E-04	-4.27522E-03	-1.63696E-03
17	0.	0.	0.	-6.77932E-03	-4.27522E-03	-1.94900E-02
18	-1.86625E-01	-3.39847E-02	4.80371E-01	6.54860E-04	-1.37684E-02	1.94560E-03
19	-1.84463E-01	3.49457E-02	4.10826E-01	-1.22729E-04	1.14803E-02	1.39236E-03
20	-3.18741E-01	3.02130E-02	6.90771E-03	-1.05338E-03	-8.29214E-03	2.05623E-04
21	0.	0.	0.	0.	0.	0.
22	0.	0.	0.	0.	0.	0.
23	0.	0.	0.	0.	0.	0.
24	0.	0.	0.	0.	0.	0.
25	0.	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.	0.
27	0.	0.	0.	0.	0.	0.
28	0.	0.	0.	0.	0.	0.
29	0.	0.	0.	0.	0.	0.

MODE NUMBER 10
 FREQUENCY = 48.7289 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	-2.46403E-06	-1.00172E-06	7.90093E-07	0.	0.	0.
2	-8.70055E-01	-4.26053E-03	2.70067E-01	4.37274E-03	1.09570E-03	1.46585E-02
3	-8.30435E-01	-8.46791E-03	2.22502E-01	-6.20925E-03	2.19139E-03	-1.58307E-02
4	-1.69517E-01	-3.05257E-01	-7.53859E-02	-1.29086E-02	2.59543E-03	-2.70869E-02
5	5.52289E-02	-7.02379E-01	-2.24983E-01	-1.28689E-02	-3.19237E-03	1.33051E-04
6	5.80853E-02	-6.01039E-01	-1.41373E-01	-1.28026E-02	-6.30261E-03	1.07042E-02
7	6.08653E-02	-3.26152E-01	1.99060E-04	-1.27362E-02	-9.48954E-03	1.87394E-02
8	-2.26543E-02	4.40709E-01	2.48381E-01	-1.04329E-02	-4.25806E-03	2.54897E-02
9	-2.63267E-04	7.63932E-01	2.56275E-01	6.41005E-03	3.80986E-04	1.81329E-02
10	-2.37428E-02	5.54024E-01	2.58407E-01	1.34984E-02	-1.52387E-03	1.37482E-02
11	-4.97964E-02	2.22892E-01	2.50090E-01	1.72211E-02	8.63384E-05	9.36351E-03
12	-8.03218E-03	-1.31520E-01	2.61747E-01	1.53720E-02	5.00120E-03	4.97882E-03
13	5.68827E-02	-4.07586E-01	2.65248E-01	1.02114E-02	1.47139E-03	3.31490E-03
14	-8.62860E-02	-3.70357E-01	2.75511E-01	-9.29640E-03	-3.07286E-03	-2.40735E-03
15	5.04017E-02	-7.39067E-03	4.11166E-02	-1.88118E-03	-9.72431E-04	-7.35202E-03
16	3.36284E-01	-3.70079E-03	-1.80536E-02	-2.53879E-04	-9.72431E-04	3.89831E-04
17	0.	0.	0.	6.00059E-04	-9.72431E-04	8.86474E-03
18	-9.59152E-03	-3.07771E-03	-1.32669E-01	1.05736E-02	7.46307E-03	1.83072E-03
19	-1.06611E-02	3.09397E-02	-1.80000E-01	5.77528E-03	-3.32719E-03	4.61704E-05
20	8.73349E-02	4.02968E-02	-2.89803E-03	-9.38830E-04	1.81190E-03	-1.18062E-03

MODAL ANALYSIS

MODE NUMBER 10
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	2.83204E-06	1.15133E-06	-9.08095E-07	0.	0.	0.
2	1.00000E+00	4.89685E-03	-3.10402E-01	-5.02581E-03	-1.25934E-03	-1.68478E-02
3	9.54463E-01	9.73261E-03	-2.55733E-01	7.13661E-03	-2.51868E-03	1.81950E-02
4	1.94834E-01	3.50848E-01	8.66450E-02	1.48365E-02	-2.98307E-03	3.11324E-02
5	-6.34775E-02	8.07281E-01	2.58585E-01	1.47909E-02	3.66916E-03	-1.52922E-04
6	-6.67605E-02	6.90805E-01	1.62488E-01	1.47146E-02	7.24392E-03	-1.23029E-02
7	-6.99557E-02	3.74864E-01	-2.28791E-04	1.46384E-02	1.09068E-02	-2.15381E-02
8	2.60378E-02	-5.06530E-01	-2.85478E-01	1.19911E-02	4.89400E-03	-2.92967E-02
9	3.02587E-04	-8.78027E-01	-2.94550E-01	-7.36740E-03	-4.37887E-04	-2.08411E-02
10	2.72889E-02	-6.36768E-01	-2.97000E-01	-1.55145E-02	1.75147E-03	-1.58015E-02
11	5.72336E-02	-2.56181E-01	-2.98935E-01	-1.97931E-02	-9.92332E-05	-1.07620E-02
12	9.23181E-03	1.51163E-01	-3.00840E-01	-1.76678E-02	-5.74814E-03	-5.72241E-03
13	-6.53782E-02	4.68460E-01	-3.04921E-01	-1.17365E-02	-1.69115E-03	-3.80999E-03
14	9.91730E-02	4.25670E-01	-3.16659E-01	1.06848E-02	3.53179E-03	2.76689E-03
15	-5.79294E-02	8.49448E-03	-4.72574E-02	2.16214E-03	1.11767E-03	8.45006E-03
16	-3.86508E-01	4.25351E-03	2.07499E-02	2.91796E-04	1.11767E-03	-4.48053E-04
17	0.	0.	0.	-6.89679E-04	1.11767E-03	-1.01887E-02
18	1.10240E-02	3.53737E-03	1.52483E-01	-1.21528E-02	-8.57770E-03	-2.10414E-03
19	1.22534E-02	-3.55606E-02	2.06884E-01	-6.63783E-03	3.82411E-03	-5.53648E-05
20	-1.00379E-01	-4.63152E-02	3.33086E-03	1.07905E-03	-2.08251E-03	1.35694E-03
21	0.	0.	0.	0.	0.	0.
22	0.	0.	0.	0.	0.	0.
23	0.	0.	0.	0.	0.	0.
24	0.	0.	0.	0.	0.	0.
25	0.	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.	0.
27	0.	0.	0.	0.	0.	0.
28	0.	0.	0.	0.	0.	0.
29	0.	0.	0.	0.	0.	0.

-110-

EIGEN SOLUTION TIME LOG

EIGENSOLUTION # 1.12
PRINTING # .21

CTION FACTORS

X = 1.0000 Y = .0007 Z = 1.0000

INDICATOR FOR DISPLACEMENT OR ACCELERATION SPECTRUM = 1

EQ.0 DISPLACEMENT

EQ.1 ACCELERATION IN IN./SEC.2

EQ.2 ACCELERATION IN GS

1 SPECTRA ARE ENTERED FOR CASE 1. FIND# 2

CLUSTER FACTOR, CF = .10000

-111-

MUDAL PARTICIPATION FACTORS

MODE	X-DIRECTION	Y-DIRECTION	Z-DIRECTION
1	.1100E+01	-.7024E-01	.9739E+00
2	-.2524E+00	-.1832E+01	.4422E-01
3	-.1427E+01	.2045E+00	.2254E+00
4	-.2013E+00	-.2259E+00	-.5095E-01
5	-.4652E+00	-.2786E-01	-.7775E+00
6	-.1314E+00	.9327E-01	-.1337E+01
7	-.2254E+00	.2343E+00	.4693E+00
8	.1061E+00	.1737E-02	.1092E+00
9	-.4223E+00	.1801E-01	.4207E+00
10	-.4552E+00	-.2184E+00	.1601E+00

SPECTRUM TABLE (IMPERIAL VALLEY E.Q. ELCENTRO 1940) SE

-112-

NUMBER OF POINTS = 11
SCALE FACTOR = .10000E+01

INPUT POINT	PERIOD	SPECTRUM VALUE
1	.1678E-02	.1450E+03
2	.2860E-01	.3800E+03
3	.3800E-01	.7750E+03
4	.7100E-01	.7750E+03
5	.7100E-01	.4400E+03
6	.1140E+00	.1188E+04
7	.1410E+00	.1188E+04
8	.1720E+00	.7000E+03
9	.2000E+00	.8710E+03
10	.2530E+00	.8710E+03
11	.5230E+00	.4000E+03

CLUSTERING. +1 MEANS NODE 1 CLOSE TO 1+1, -1, NOT.
-1, -1, -1, -1, -1, -1, -1, 1, -1, 0.

NODE NUM	NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	TOTAL..	2.09177E-08	1.54402E-08	4.63322E-08	0.	0.	0.
2	TOTAL..	2.74424E-02	6.56707E-05	6.59521E-02	2.10534E-03	1.20018E-03	8.74451E-04
3	TOTAL..	8.47772E-02	1.31246E-04	2.03664E-01	2.71028E-03	2.40035E-03	1.15749E-03
4	TOTAL..	1.13928E-01	1.29359E-02	2.39490E-01	2.37044E-03	3.17197E-03	1.22819E-03
5	TOTAL..	1.25322E-01	0.44900E-02	1.66408E-01	1.94809E-03	4.31735E-03	1.24172E-03
6	TOTAL..	1.25311E-01	0.59767E-02	8.62422E-02	1.79088E-03	4.66347E-03	1.20837E-03
7	TOTAL..	1.25294E-01	8.65619E-02	1.45498E-05	1.63618E-03	4.99380E-03	1.14563E-03
8	TOTAL..	7.40846E-02	7.80058E-02	1.29572E-01	1.42107E-03	4.37353E-03	9.52113E-04
9	TOTAL..	1.13534E-05	7.92374E-02	1.66289E-01	1.09541E-03	1.60941E-03	8.82206E-04
10	TOTAL..	2.89916E-02	0.26359E-02	1.66533E-01	9.25098E-04	1.36094E-03	8.76265E-04
11	TOTAL..	5.41993E-02	5.13220E-02	1.66766E-01	6.46496E-04	1.44345E-03	9.06201E-04
12	TOTAL..	7.66464E-02	4.59076E-02	1.66987E-01	4.82658E-04	1.51083E-03	9.68695E-04
13	TOTAL..	9.48969E-02	4.06244E-02	1.67132E-01	4.55129E-04	1.84177E-03	9.60229E-04
14	TOTAL..	2.24130E-01	2.15428E-02	1.67543E-01	4.41202E-04	2.36092E-03	1.34865E-03
15	TOTAL..	2.35596E-01	4.24471E-04	1.68024E-01	7.29864E-04	2.29732E-03	1.90095E-03
16	TOTAL..	1.25643E-01	2.11374E-04	1.05872E-01	1.65392E-03	2.29732E-03	2.19279E-03
17	TOTAL..	0.	1.	0.	2.10204E-03	2.29732E-03	2.39003E-03
18	TOTAL..	7.68156E-02	7.07802E-02	1.11073E-01	4.75351E-04	1.58059E-03	5.55182E-04
19	TOTAL..	7.66454E-02	6.17353E-02	4.76205E-02	8.44524E-04	1.62163E-03	2.99037E-04

20 TOTAL..	3.53521E-02	2.35440E-02	2.05242E-04	9.29067E-04	1.24504E-03	3.88065E-04
21 TOTAL..	0.	0.	0.	0.	0.	0.
22 TOTAL..	0.	0.	0.	0.	0.	0.
23 TOTAL..	0.	0.	0.	0.	0.	0.
24 TOTAL..	0.	0.	0.	0.	0.	0.
25 TOTAL..	0.	0.	0.	0.	0.	0.
26 TOTAL..	0.	0.	0.	0.	0.	0.
27 TOTAL..	0.	0.	0.	0.	0.	0.
28 TOTAL..	0.	0.	0.	0.	0.	0.
29 TOTAL..	0.	0.	0.	0.	0.	0.

FOR EACH ELEMENT, THE FOLLOWING INFORMATION IS PRINTED:

1. FOR EACH EARTH QUAKE DIRECTION, THE NUMBER OF THE MODE WITH THE LARGEST STRESS.
 2. THE VALUE OF THAT STRESS.
 3. IF REQUESTED, THE MODE BY MODE STRESSES FOR EACH EARTH QUAKE DIRECTION.
 4. THE RESULTANT FOR EACH EARTH QUAKE DIRECTION.
 5. THE GRAND TOTAL OF THE THREE EARTH QUAKE DIRECTIONS.
- (NOTE: THE X, Y, OR Z REFERS TO THE EARTH QUAKE DIRECTION.)

ELEMENT TYPE (H U U N D A R Y)) / / / ELEMENT NUMBER (1)

	HDRY=F	HDRY=M
X	1	0
X MAXIMUM	1.070E+02 0.	
Y	2	0
Y MAXIMUM	7.053E+01 0.	
Z	1	0
Z MAXIMUM	1.044E+02 0.	
GRAND TOTAL	2.092E+02 0.	

ELEMENT TYPE (H U U N D A R Y)) / / / ELEMENT NUMBER (2)

	HDRY=F	HDRY=M
X	1	0
X MAXIMUM	-6.174E+01 0.	
Y	2	0
Y MAXIMUM	8.932E+01 0.	
Z	1	0
Z MAXIMUM	-5.919E+01 0.	
GRAND TOTAL	1.544E+02 0.	

ELEMENT TYPE (H U U N D A R Y)) / / / ELEMENT NUMBER (3)

	HDRY=F	HDRY=M
X	1	0
X MAXIMUM	-2.482E+02 0.	
Y	1	0
Y MAXIMUM	1.591E+01 0.	
Z	1	0
Z MAXIMUM	-2.893E+02 0.	
GRAND TOTAL	4.633E+02 0.	

ELEMENT TYPE (H U U N D A R Y)) / / / ELEMENT NUMBER (4)

	HDRY=F	HDRY=M
X	1	0
X MAXIMUM	-1.196E+03 0.	
Y	2	0
Y MAXIMUM	-9.545E+01 0.	
Z	1	0
Z MAXIMUM	-1.160E+03 0.	
GRAND TOTAL	1.855E+03 0.	

ELEMENT TYPE (H U U N D A R Y)) / / / ELEMENT NUMBER (5)

	HDRY=F	HDRY=M
X	1	0
X MAXIMUM	6.441E+02 0.	

-116-

	HDDY=F	HDDY=M
X	2	0
X MAXIMUM	4.410E+01 0.	
Y	2	0
Y MAXIMUM	4.794E+02 0.	
Z	1	0
Z MAXIMUM	-8.490E+01 0.	
GRAND TOTAL	5.132E+02 0.	

	HOURY=F	HOURY=M
X	2	0
X MAXIMUM	7.975E+01 U.	
Y	2	0
Y MAXIMUM	3.455E+02 U.	
Z	6	0
Z MAXIMUM	-6.227E+01 U.	
GRAND TOTAL	4.002E+02 U.	

	DDRY=F	DDRY=M
X	1	0
X MAXIMUM	-5.157E+02 U.	
Y	2	0
Y MAXIMUM	-1.291E+02 U.	
Z	1	0
Z MAXIMUM	-5.003E+02 U.	
GRAND TOTAL	9.608E+02 U.	

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	-6.174E+01	-2.942E+02	1.076E+02	-9.413E+03	-1.152E+04	-2.465E+04	-6.174E+01	-2.942E+02	1.076E+02	-9.413E+03	-5.663E+03	-1.341E+04
Y	2	1	2	2	2	1	2	1	2	2	2	1
Y MAXIMUM	8.932E+01	1.391E+01	7.053E+01	5.781E+02	-3.261E+03	1.383E+03	8.932E+01	1.391E+01	7.053E+01	5.781E+02	5.798E+02	6.255E+02
Z	3	2	3	3	3	2	3	2	3	3	3	2
Z MAXIMUM	-5.949E+01	-2.893E+02	1.044E+02	-9.131E+03	-1.118E+04	-2.876E+04	-5.949E+01	-2.893E+02	1.044E+02	-9.131E+03	-5.493E+03	-1.301E+04
GRAND TOTAL	1.544E+02	4.633E+02	2.092E+02	1.349E+04	1.806E+04	4.313E+04	1.544E+02	4.633E+02	2.092E+02	1.349E+04	8.095E+03	1.876E+04

[illegible]

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (3)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY	MZ(C)
X	1	1	1	1	5	3	4	1	1	1	1	3
X MAXIMUM	-6.167E+01	4.104E+01	1.338E+02	-9.413E+03	-1.655E+03	2.097E+03	5.877E+03	6.207E+01	1.338E+02	-8.259E+03	5.625E+03	2.217E+03
Y	2	2	2	2	2	2	2	2	2	2	2	2
Y MAXIMUM	8.914E+01	5.441E+01	8.640E+00	5.781E+02	6.977E+02	-4.010E+03	1.032E+02	1.616E+01	8.640E+00	8.250E+02	5.434E+02	-4.520E+03
Z	1	1	1	1	6	5	1	1	1	1	1	5
Z MAXIMUM	-5.982E+01	4.010E+01	1.298E+02	-9.131E+03	-2.917E+03	-1.176E+03	-3.981E+01	6.021E+01	1.298E+02	-8.011E+03	5.457E+03	-1.085E+03
GRAND TOTAL	1.539E+02	1.036E+02	2.071E+02	1.349E+04	4.541E+03	5.560E+03	1.530E+02	1.027E+02	2.071E+02	1.164E+04	8.868E+03	5.798E+03

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (3)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	0	1	1	1	1	3
X MAXIMUM	5.187E+01	7.305E+01	1.338E+02	-5.108E+03	1.022E+04	2.208E+03
Y	2	2	2	2	1	2
Y MAXIMUM	1.015E+02	-2.456E+01	8.640E+00	9.940E+02	-4.765E+02	-4.459E+03
Z	0	1	1	1	1	1
Z MAXIMUM	-3.223E+01	7.086E+01	1.298E+02	-4.955E+03	9.910E+03	-8.507E+02
GRAND TOTAL	1.390E+02	1.213E+02	2.071E+02	7.226E+03	1.459E+04	5.691E+03

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (4)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	4	1	5	1	1	3	9	1	5	1	1	3
X MAXIMUM	4.712E+01	3.849E+01	8.021E+01	-5.108E+03	1.022E+04	2.208E+03	-5.373E+01	5.154E+01	8.021E+01	-6.499E+02	1.194E+04	1.727E+03
Y	2	4	2	2	1	2	2	2	2	2	1	2
Y MAXIMUM	9.416E+01	-2.239E+01	1.520E+01	9.940E+02	-4.765E+02	-4.459E+03	8.305E+01	-5.861E+01	1.520E+01	1.078E+03	-5.570E+02	-3.875E+03
Z	6	1	6	1	1	1	6	1	6	1	1	1
Z MAXIMUM	-4.776E+01	3.734E+01	1.391E+02	-4.955E+03	9.910E+03	-8.507E+02	-4.967E+01	4.499E+01	1.391E+02	-6.790E+02	1.159E+04	-1.481E+03
GRAND TOTAL	1.533E+02	1.012E+02	2.184E+02	7.226E+03	1.459E+04	5.691E+03	1.352E+02	1.240E+02	2.184E+02	1.607E+03	1.668E+04	5.087E+03

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (4)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	4	1	5	1	1	1
X MAXIMUM	-5.382E+01	5.674E+01	8.021E+01	4.033E+03	1.185E+04	-2.309E+03
Y	2	2	2	2	1	2
Y MAXIMUM	5.431E+01	-8.593E+01	1.520E+01	1.081E+03	-5.528E+02	-2.831E+03
Z	6	1	6	1	1	1
Z MAXIMUM	-4.402E+01	5.500E+01	1.391E+02	3.912E+03	1.150E+04	-2.240E+03
GRAND TOTAL	1.103E+02	1.801E+02	2.184E+02	5.824E+03	1.687E+04	4.671E+03

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (5)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	4	5	1	1	1	9	4	5	1	1	1
X MAXIMUM	-7.008E+01	4.450E+01	-1.017E+02	4.033E+03	-1.185E+04	2.309E+03	-7.008E+01	4.450E+01	-1.017E+02	4.033E+03	-1.160E+04	3.092E+03
Y	2	2	2	2	2	2	2	2	2	2	1	2
Y MAXIMUM	5.876E+01	7.115E+01	-1.914E+01	1.081E+03	5.528E+02	2.831E+03	5.876E+01	7.115E+01	-1.914E+01	1.081E+03	5.412E+02	1.561E+03
Z	6	1	5	1	1	1	6	1	5	1	1	1
Z MAXIMUM	-6.494E+01	-4.255E+01	-1.700E+02	3.912E+03	-1.150E+04	2.240E+03	-6.494E+01	-4.255E+01	-1.700E+02	3.912E+03	-1.126E+04	2.999E+03
GRAND TOTAL	1.584E+02	1.191E+02	2.625E+02	5.823E+03	1.687E+04	4.671E+03	1.584E+02	1.191E+02	2.625E+02	5.823E+03	1.805E+04	4.859E+03

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (6)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
	3	4	5	1	1	1	3	4	5	1	1	1

X MAXIMUM	8.649E+01	3.143E+01	-1.189E+02	4.033E+03	-1.160E+04	3.092E+03	8.649E+01	3.143E+01	-1.089E+02	4.033E+03	-1.097E+04	3.623E+03
Y	2	2	2	2	1	2	2	2	2	2	2	4
Y MAXIMUM	6.218E+01	5.150E+01	-2.062E+01	1.081E+03	5.412E+02	1.561E+03	6.218E+01	5.150E+01	-2.062E+01	1.081E+03	-6.136E+02	-7.942E+02
Z	6	1	5	1	1	1	6	1	5	1	1	1
Z MAXIMUM	-8.193E+01	-2.849E+01	-1.420E+02	3.912E+03	-1.126E+04	2.949E+03	-8.103E+01	-2.849E+01	-1.420E+02	3.912E+03	-1.064E+04	3.515E+03
GRAND TOTAL	2.051E+02	8.729E+01	2.422E+02	5.823E+03	1.805E+04	4.859E+03	2.051E+02	8.729E+01	2.822E+02	5.823E+03	2.004E+04	5.439E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (7)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	3	1	3	1	1	1	1	1	3	1	1	1
X MAXIMUM	1.201E+02	1.231E+03	1.980E+01	4.033E+03	3.623E+03	1.097E+04	3.679E+02	1.180E+03	1.986E+01	5.131E+03	1.896E+03	-6.441E+03
Y	2	2	2	2	4	2	2	1	2	2	4	3
Y MAXIMUM	6.662E+01	7.523E+01	-1.470E+01	1.081E+03	-7.942E+02	6.136E+02	9.034E+01	-5.505E+01	-1.470E+01	1.204E+03	-1.037E+03	4.392E+02
Z	1	1	7	1	1	1	1	1	7	1	1	1
Z MAXIMUM	-1.084E+02	1.194E+03	-9.657E+00	3.912E+03	3.515E+03	1.064E+04	3.569E+02	1.145E+03	-9.667E+00	4.477E+03	1.840E+03	-6.248E+03
GRAND TOTAL	2.796E+02	1.813E+03	3.915E+01	5.823E+03	5.439E+03	2.004E+04	6.116E+02	1.729E+03	3.915E+01	7.308E+03	3.361E+03	1.250E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (7)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	3	1	4	1
X MAXIMUM	7.916E+02	9.496E+02	1.980E+01	5.485E+03	-1.479E+03	-2.182E+04
Y	2	1	2	2	4	1
Y MAXIMUM	1.003E+02	-4.429E+01	-1.470E+01	1.062E+03	-1.122E+03	1.018E+03
Z	1	1	7	1	5	1
Z MAXIMUM	7.679E+02	9.212E+02	-9.667E+00	5.320E+03	-6.147E+02	-2.117E+04
GRAND TOTAL	1.200E+03	1.386E+03	3.915E+01	7.810E+03	2.256E+03	3.174E+04

-811- ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (8)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	1	1	4	1	4	1	1	1	4	1	1	1
X MAXIMUM	7.355E+02	9.324E+02	2.366E+01	5.485E+03	-1.449E+03	-2.182E+04	1.036E+03	5.804E+02	2.366E+01	4.961E+03	-2.515E+03	-3.275E+04
Y	2	1	2	2	4	1	2	2	2	2	4	1
Y MAXIMUM	1.054E+02	-4.351E+01	4.777E+01	1.062E+03	-1.122E+03	1.018E+03	9.906E+01	-3.535E+01	4.797E+01	8.504E+02	-6.943E+02	1.527E+03
Z	1	1	1	1	5	1	1	1	1	1	1	1
Z MAXIMUM	7.134E+02	9.049E+02	-2.138E+01	5.320E+03	-6.147E+02	-2.117E+04	1.005E+03	5.630E+02	-2.138E+01	4.812E+03	-2.440E+03	-3.177E+04
GRAND TOTAL	1.140E+03	1.364E+03	7.232E+01	7.810E+03	2.256E+03	3.174E+04	1.556E+03	8.584E+02	7.232E+01	7.154E+03	3.798E+03	4.691E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (8)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	3	4	1	1	1
X MAXIMUM	1.180E+03	-1.554E+02	2.366E+01	3.560E+03	-4.528E+03	-3.794E+04
Y	2	2	2	4	1	1
Y MAXIMUM	7.836E+01	-7.073E+01	4.797E+01	-7.830E+02	2.112E+02	1.770E+03
Z	1	1	1	1	1	1
Z MAXIMUM	1.144E+03	1.354E+02	-2.138E+01	3.453E+03	-4.342E+03	-3.681E+04
GRAND TOTAL	1.747E+03	3.248E+02	7.232E+01	5.334E+03	6.413E+03	5.408E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (9)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	4	3	1	1	1	1	4	3	1	1	1
X MAXIMUM	1.123E+03	-4.469E+01	-7.123E+02	3.560E+03	3.794E+04	-4.528E+03	1.123E+03	-4.469E+01	-7.123E+02	3.560E+03	2.760E+04	-5.300E+03
Y	2	2	3	4	1	1	2	2	3	4	1	2
Y MAXIMUM	8.244E+01	-1.016E+02	6.805E+01	-7.830E+02	-1.770E+03	2.112E+02	8.244E+01	-1.016E+02	6.805E+01	-7.830E+02	-1.200E+03	2.077E+03
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	1.049E+03	3.654E+01	-8.804E+02	3.453E+03	3.641E+04	-4.342E+03	1.049E+03	3.654E+01	-8.804E+02	3.453E+03	2.670E+04	-5.142E+03

GRAND TOTAL 1.675E+03 1.355E+02 1.041E+03 5.334E+03 5.408E+04 6.413E+03 1.675E+03 1.355E+02 1.041E+03 5.334E+03 3.903E+04 7.912E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (10)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	4	3	1	1	1	1	4	3	1	3	1
X MAXIMUM	1.075E+03	-5.591E+01	-6.826E+02	3.560E+03	2.700E+04	-5.300E+03	1.075E+03	-5.591E+01	-6.826E+02	3.560E+03	-1.959E+04	-6.231E+03
Y	2	2	3	4	1	2	2	2	3	4	3	2
Y MAXIMUM	4.505E+01	-1.413E+02	6.520E+01	-7.830E+02	-1.247E+03	2.077E+03	8.585E+01	-1.413E+02	6.520E+01	-7.830E+02	1.871E+03	4.974E+03
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	1.043E+03	4.404E+01	-4.911E+02	3.453E+03	2.678E+04	-5.142E+03	1.043E+03	4.404E+01	-4.911E+02	3.453E+03	1.671E+04	-6.044E+03
GRAND TOTAL	1.616E+03	1.795E+02	1.020E+03	5.334E+03	3.903E+04	7.912E+03	1.616E+03	1.795E+02	1.020E+03	5.334E+03	3.168E+04	1.061E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (11)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	2	3	1	3	1	1	2	3	1	3	1
X MAXIMUM	1.028E+03	6.259E+01	-6.262E+02	3.560E+03	-1.459E+04	-6.231E+03	1.028E+03	6.259E+01	-6.262E+02	3.560E+03	-3.243E+04	-5.439E+03
Y	2	2	3	4	3	2	2	2	3	4	3	4
Y MAXIMUM	8.924E+01	3.028E+02	5.982E+01	-7.830E+02	1.871E+03	4.974E+03	8.924E+01	3.028E+02	5.982E+01	-7.830E+02	3.098E+03	1.750E+03
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	9.971E+02	-3.747E+01	-4.989E+02	3.453E+03	1.671E+04	-6.044E+03	9.971E+02	-3.747E+01	-4.989E+02	3.453E+03	-8.692E+03	-5.276E+03
GRAND TOTAL	1.558E+03	3.213E+02	9.772E+02	5.334E+03	3.168E+04	1.061E+04	1.558E+03	3.213E+02	9.772E+02	5.334E+03	3.571E+04	8.878E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (12)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	3	1	1	1	1	1	3	1	1	3	1
X MAXIMUM	6.608E+02	8.673E+01	-1.852E+02	4.625E+03	1.141E+04	-4.826E+03	6.608E+02	8.673E+01	-1.852E+02	4.625E+03	-1.179E+04	-3.832E+03
Y	2	2	2	2	2	2	2	2	2	2	3	2
Y MAXIMUM	5.564E+01	-3.383E+02	-3.808E+01	-2.369E+03	1.734E+03	-8.401E+03	5.564E+01	-3.383E+02	-3.808E+01	-2.369E+03	1.126E+03	-1.467E+03
Z	1	6	1	1	1	1	1	6	1	1	1	1
Z MAXIMUM	6.449E+02	-6.339E+01	-1.797E+02	4.486E+03	1.145E+04	-4.682E+03	6.449E+02	-6.339E+01	-1.797E+02	4.486E+03	7.768E+03	-3.717E+03
GRAND TOTAL	1.006E+03	3.756E+02	2.971E+02	7.467E+03	1.948E+04	1.225E+04	1.006E+03	3.756E+02	2.971E+02	7.467E+03	1.679E+04	6.414E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (13)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	3	1	1	3	1	1	3	1	1	3	3
X MAXIMUM	5.544E+02	6.727E+01	-1.413E+02	4.625E+03	-1.179E+04	-3.832E+03	5.544E+02	6.727E+01	-1.413E+02	4.625E+03	-7.269E+03	-3.594E+03
Y	2	2	2	2	3	2	2	2	2	2	3	8
Y MAXIMUM	6.313E+01	-1.557E+01	-2.278E+01	-2.369E+03	1.126E+03	-1.467E+03	6.313E+01	-1.557E+01	-2.278E+01	-2.369E+03	6.943E+02	4.859E+02
Z	1	6	1	1	1	1	1	6	1	1	6	6
Z MAXIMUM	5.422E+02	-8.593E+01	-1.370E+02	4.486E+03	7.768E+03	-3.717E+03	5.422E+02	-8.593E+01	-1.370E+02	4.486E+03	2.074E+03	5.193E+03
GRAND TOTAL	8.877E+02	1.440E+02	2.296E+02	7.467E+03	1.679E+04	6.414E+03	8.877E+02	1.440E+02	2.296E+02	7.467E+03	8.621E+03	8.547E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (14)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	1	3	3	1	3	3	1	1	3	1	1	1
X MAXIMUM	4.103E+02	4.811E+01	2.002E+02	4.625E+03	-7.269E+03	-3.594E+03	2.725E+02	-3.077E+02	2.002E+02	2.462E+03	-3.270E+03	2.486E+03
Y	2	2	3	2	3	2	2	2	3	2	2	2
Y MAXIMUM	7.355E+01	-4.508E+01	-1.913E+01	-2.369E+03	6.943E+02	4.859E+02	1.956E+01	-8.445E+01	-1.913E+01	-1.446E+03	1.675E+03	1.590E+03
Z	1	7	6	1	6	6	1	1	6	1	1	1
Z MAXIMUM	3.940E+02	-2.530E+01	-5.714E+01	4.486E+03	2.074E+03	5.193E+03	2.643E+02	-2.985E+02	-5.714E+01	2.348E+03	-3.172E+03	2.411E+03
GRAND TOTAL	7.469E+02	9.439E+01	2.375E+02	7.467E+03	8.621E+03	8.547E+03	5.260E+02	5.346E+02	2.375E+02	4.260E+03	5.280E+03	5.260E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (14)

PX(J) VY(J) VZ(J) TX(J) MY(J) MZ(J)

X	3	1	3	1	3	1
X MAXIMUM	4.818E+01	-4.103E+02	2.002E+02	-1.463E+09	5.036E+03	1.328E+04
Y	2	2	2	10	2	2
Y MAXIMUM	-4.544E+01	7.355E+01	-1.913E+01	3.190E+10	3.022E+03	3.968E+03
Z	7	1	6	1	1	1
Z MAXIMUM	-2.530E+01	3.080E+02	-5.714E+01	-1.630E+09	-2.544E+03	1.248E+04
GRAND TOTAL	9.434E+01	7.469E+02	2.375E+02	2.840E+09	7.303E+03	2.072E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (15)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	3	1	3	1	1	1	3	1	1	1
X MAXIMUM	-2.443E+02	-8.306E+01	3.214E+01	4.657E+10	-5.036E+03	-1.328E+04	-2.443E+02	-8.306E+01	3.214E+01	4.657E+10	3.898E+03	-4.754E+03
Y	2	2	2	2	2	2	2	2	2	2	2	2
Y MAXIMUM	-1.109E+02	-2.456E+01	2.445E+01	6.548E+11	-3.022E+03	-3.968E+03	-1.109E+02	-2.456E+01	2.445E+01	6.548E+11	-1.417E+03	-2.355E+03
Z	1	1	6	1	1	1	1	1	6	1	1	1
Z MAXIMUM	-2.758E+02	-8.058E+01	-2.947E+01	4.657E+10	2.544E+03	-1.248E+04	-2.758E+02	-8.058E+01	-2.947E+01	4.657E+10	3.782E+03	-8.492E+03
GRAND TOTAL	5.007E+02	1.250E+02	7.346E+01	7.631E+10	7.303E+03	2.072E+04	5.007E+02	1.250E+02	7.346E+01	7.631E+10	7.272E+03	1.438E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (16)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	1	1	1	1	1	1	1	1
X MAXIMUM	-2.445E+02	-1.621E+02	-7.219E+01	3.492E+10	3.448E+03	-8.754E+03	-2.445E+02	-1.621E+02	-7.219E+01	3.492E+10	2.328E+09	-9.313E+10
Y	2	2	2	3	2	2	2	2	2	3	1	1
Y MAXIMUM	-1.110E+02	-4.360E+01	2.624E+01	2.183E+11	-1.417E+03	-2.355E+03	-1.110E+02	-4.360E+01	2.624E+01	2.183E+11	-1.164E+10	7.276E+11
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	-2.754E+02	-1.573E+02	-7.003E+01	3.492E+10	3.782E+03	-8.492E+03	-2.754E+02	-1.573E+02	-7.003E+01	3.492E+10	2.328E+09	-1.397E+09
GRAND TOTAL	5.012E+02	2.663E+02	1.347E+02	5.275E+10	7.272E+03	1.438E+04	5.012E+02	2.663E+02	1.347E+02	5.275E+10	3.599E+09	1.767E+09

-120-

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (17)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	3	3	3	2	3	3	3	3	3	2	3	2
X MAXIMUM	3.800E+02	-1.250E+02	3.549E+02	-1.482E+03	-2.278E+04	-2.126E+03	3.800E+02	-1.250E+02	3.549E+02	-1.482E+03	-8.581E+03	-4.118E+03
Y	3	2	2	2	2	2	3	2	2	2	2	2
Y MAXIMUM	-3.630E+01	5.767E+02	4.029E+01	-7.168E+03	-3.678E+03	3.144E+03	-3.630E+01	5.767E+02	4.029E+01	-7.168E+03	-2.067E+03	-1.992E+04
Z	1	6	6	6	6	6	1	6	6	6	6	6
Z MAXIMUM	2.900E+02	8.792E+01	3.772E+02	-9.948E+02	-6.327E+03	1.843E+03	2.900E+02	8.792E+01	3.772E+02	-9.948E+02	8.760E+03	-1.623E+03
GRAND TOTAL	6.354E+02	6.198E+02	6.698E+02	7.608E+03	2.550E+04	5.244E+03	6.354E+02	6.198E+02	6.698E+02	7.608E+03	1.553E+04	2.043E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (18)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	3	2	3	2	3	2	3	2	3	2	3	2
X MAXIMUM	-7.054E+02	-5.563E+01	4.977E+02	-1.482E+03	-8.581E+03	-4.118E+03	-7.054E+02	-5.563E+01	4.977E+02	-1.482E+03	1.141E+04	-1.893E+03
Y	2	2	2	2	2	2	2	2	2	2	2	2
Y MAXIMUM	-1.114E+02	-2.691E+02	8.467E+01	-7.168E+03	-2.067E+03	-1.942E+04	-1.114E+02	-2.691E+02	8.467E+01	-7.168E+03	1.320E+03	-9.159E+03
Z	1	1	1	6	6	6	1	1	1	6	1	6
Z MAXIMUM	1.429E+02	-1.442E+01	-2.001E+02	-9.948E+02	8.760E+03	-1.623E+03	1.429E+02	-1.442E+01	-2.001E+02	-9.948E+02	2.331E+03	-1.500E+03
GRAND TOTAL	7.661E+02	2.747E+02	6.173E+02	7.608E+03	1.553E+04	2.083E+04	7.661E+02	2.747E+02	6.173E+02	7.608E+03	1.240E+04	9.846E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (19)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	3	3	2	2	3	3	3	3	2	1	3	3
X M IM	-4.751E+02	-4.664E+02	-4.371E+01	-1.482E+03	1.843E+03	1.141E+04	-9.449E+02	2.447E+02	-4.371E+01	8.453E+02	-3.572E	1.409E+04
Y	2	2	2	2	2	2	2	2	2	2	2	2
Y M IM	-1.245E+02	-4.426E+01	-7.044E+02	-7.168E+03	9.159E+03	1.320E+03	-1.476E+02	2.847E+01	-4.049E+02	-2.698E+03	1.151E	1.159E+03
Z	3	1	6	6	6	1	1	6	6	1	6	1

1.313E+02 2.277E+02 4.553E+01 5.788E+02 1.500E+03 2.331E+03 2.472E+02 8.154E+01 4.538E+01 8.200E+02 6.019E+02 6.954E+03
 GRAND TOTAL 9.222E+02 6.327E+02 4.253E+02 7.608E+03 9.848E+03 1.240E+04 1.069E+03 3.287E+02 4.253E+02 3.269E+03 1.558E+03 1.779E+04

ELEM TYPE (3/D P 1 P E) / / / ELEMENT NUMBER (19)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	3	3	2	2	2	1
X MAXIMUM	-4.668E+02	6.751E+02	-4.371E+01	-1.145E+03	-1.557E+03	-6.516E+03
Y	2	2	2	2	2	3
Y MAXIMUM	-8.426E+01	1.245E+02	-4.049E+02	-5.541E+03	-7.531E+03	3.259E+02
Z	1	3	6	2	1	1
Z MAXIMUM	2.297E+02	-1.383E+02	-3.538E+01	2.007E+02	-1.359E+03	-6.321E+03
GRAND TOTAL	6.327E+02	4.222E+02	4.253E+02	5.724E+03	8.126E+03	9.945E+03

ELEMENT TYPE (3/D P 1 P E) / / / ELEMENT NUMBER (20)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	3	2	3	2	1	2	3	2	3	2	3	2
X MAXIMUM	-4.672E+02	-9.183E+01	-9.637E+02	-1.145E+03	-6.516E+03	1.557E+03	-4.672E+02	-9.183E+01	-9.637E+02	-1.145E+03	-4.341E+04	5.368E+03
Y	2	2	2	2	3	2	2	2	2	2	2	2
Y MAXIMUM	-8.431E+01	-4.402E+02	-1.322E+02	-5.541E+03	3.259E+02	7.531E+03	-8.431E+01	-4.402E+02	-1.322E+02	-5.541E+03	-5.628E+03	2.597E+04
Z	1	6	3	2	1	1	1	6	3	2	3	6
Z MAXIMUM	2.298E+02	-6.427E+01	1.523E+02	2.007E+02	-6.321E+03	1.359E+03	2.298E+02	-6.427E+01	1.523E+02	2.007E+02	6.858E+03	3.316E+03
GRAND TOTAL	6.333E+02	4.712E+02	1.012E+03	5.724E+03	9.945E+03	8.126E+03	6.333E+02	4.712E+02	1.012E+03	5.724E+03	4.468E+04	2.757E+04

BENCHMARK PROBLEM NO. 4

BENCHMARK PROBLEM NO.4

Figure 4.2

BENCHMARK PROBLEM 4. TWO LOOP SYSTEM, RESPONSE SPECTRUM ANALYSIS

CONTROL INFORMATION

NUMBER OF NODAL POINTS = 97
 NUMBER OF ELEMENT TYPES = 2
 NUMBER OF LOAD CASES = 0
 NUMBER OF FREQUENCIES = 30
 ANALYSIS CODE (NDYN) = 3
 EQ.0, STATIC
 EQ.1, MODAL EXTRACTION
 EQ.2, FORCED RESPONSE
 EQ.3, RESPONSE SPECTRUM
 EQ.4, DIRECT INTEGRATION
 SOLUTION MODF (MODEX) = 0
 EQ.0, EXECUTION
 EQ.1, DATA CHECK
 NUMBER OF SUBSPACE
 ITERATION VECTORS (NAD) = -0
 EQUATIONS PER BLOCK = -0
 TAPE10 SAVE FLAG (N10SV) = -0

NODAL POINT INPUT DATA

NODE NUMBER	BOUNDARY CONDITION CODES						NODAL POINT COORDINATES				
	X	Y	Z	XX	YY	ZZ	X	Y	Z	T	
1	-0	-0	-0	-0	-0	-0	384.000	696.000	0.000	-0	-0.000
2	-0	-0	-0	-0	-0	-0	384.000	552.000	0.000	-0	-0.000
3	-0	-0	-0	-0	-0	-0	384.000	456.000	0.000	-0	-0.000
4	-0	-0	-0	-0	-0	-0	384.000	276.000	0.000	-0	-0.000
5	1	1	1	1	1	1	383.000	276.000	0.000	-0	-0.000
6	1	1	1	1	1	1	384.000	276.000	1.000	-0	-0.000
7	1	1	1	1	1	1	385.000	276.000	0.000	-0	-0.000
8	1	1	1	1	1	1	384.000	276.000	-1.000	-0	-0.000
9	-0	-0	-0	-0	-0	-0	384.000	96.000	0.000	-0	-0.000
10	1	1	1	1	1	1	384.000	-180.000	0.000	-0	-0.000
11	-0	-0	-0	-0	-0	-0	399.000	26.900	-56.000	-0	-0.000
12	-0	-0	-0	-0	-0	-0	338.800	42.100	0.000	-0	-0.000
13	-0	-0	-0	-0	-0	-0	399.000	26.900	56.000	-0	-0.000
14	-0	-0	-0	-0	-0	-0	402.600	-11.600	-69.500	-0	-0.000
15	-0	-0	-0	-0	-0	-0	248.400	0.000	0.000	-0	-0.000
16	-0	-0	-0	-0	-0	-0	402.600	-11.600	69.500	-0	-0.000
17	-0	-0	-0	-0	-0	-0	402.600	-72.000	-69.500	-0	-0.000
18	-0	-0	-0	-0	-0	-0	402.600	-72.000	69.500	-0	-0.000
19	-0	-0	-0	-0	-0	-0	354.700	-132.000	-105.600	-0	-0.000
20	-0	-0	-0	-0	-0	-0	354.700	-132.000	105.600	-0	-0.000
21	-0	-0	-0	-0	-0	-0	335.900	-132.000	-119.900	-0	-0.000
22	-0	-0	-0	-0	-0	-0	335.900	-132.000	119.900	-0	-0.000
23	-0	-0	-0	-0	-0	-0	288.000	-72.000	-156.000	-0	-0.000
24	-0	-0	-0	-0	-0	-0	288.000	-72.000	156.000	-0	-0.000
25	-0	-0	-0	-0	-0	-0	288.000	0.000	-156.000	-0	-0.000
26	-0	-0	-0	-0	-0	-0	288.000	0.000	156.000	-0	-0.000
27	1	1	1	1	1	1	288.000	-180.000	-156.000	-0	-0.000
28	1	1	1	1	1	1	288.000	-180.000	156.000	-0	-0.000
29	-0	-0	-0	-0	-0	-0	288.000	126.000	-156.000	-0	-0.000
30	-0	-0	-0	-0	-0	-0	288.000	126.000	156.000	-0	-0.000
	-0	-0	-0	-0	-0	-0	253.200	0.000	-146.700	-0	-0.000
	-0	-0	-0	-0	-0	-0	253.200	0.000	146.700	-0	-0.000
	-0	-0	-0	-0	-0	-0	187.300	0.000	-128.500	-0	-0.000
34	-0	-0	-0	-0	-0	-0	177.000	0.000	0.000	-0	-0.000

35	-0	-0	-0	-0	-0	-0	187.300	0.000	128.500	-0	-0.000
36	-0	-0	-0	-0	-0	-0	121.400	0.000	-110.200	-0	-0.000
37	-0	-0	-0	-0	-0	-0	121.400	0.000	110.200	-0	-0.000
38	-0	-0	-0	-0	-0	-0	94.600	0.000	-94.600	-0	-0.000
39	-0	-0	-0	-0	-0	-0	96.000	0.000	0.000	-0	-0.000
40	-0	-0	-0	-0	-0	-0	94.600	0.000	94.600	-0	-0.000
41	1	1	1	1	1	1	95.600	0.000	-93.600	-0	-0.000
42	1	1	1	1	1	1	96.000	0.000	1.000	-0	-0.000
43	1	1	1	1	1	1	93.600	0.000	95.600	-0	-0.000
44	1	1	1	1	1	1	94.600	-1.000	-94.600	-0	-0.000
45	1	1	1	1	1	1	96.000	-1.000	0.000	-0	-0.000
46	1	1	1	1	1	1	94.600	-1.000	94.600	-0	-0.000
47	-0	-0	-0	-0	-0	-0	0.000	0.000	0.000	-0	-0.000
48	-0	-0	-0	-0	-0	-0	0.000	-192.000	0.000	-0	-0.000
49	-0	-0	-0	-0	-0	-0	0.000	84.000	0.000	-0	-0.000
50	-0	-0	-0	-0	-0	-0	0.000	156.000	0.000	-0	-0.000
51	-0	-0	-0	-0	-0	-0	0.000	288.000	0.000	-0	-0.000
52	1	1	1	1	1	1	-94.600	-1.000	-94.600	-0	-0.000
53	1	1	1	1	1	1	-96.000	-1.000	0.000	-0	-0.000
54	1	1	1	1	1	1	-94.600	-1.000	94.600	-0	-0.000
55	1	1	1	1	1	1	-95.600	0.000	-93.600	-0	-0.000
56	1	1	1	1	1	1	-96.000	0.000	1.000	-0	-0.000
57	1	1	1	1	1	1	-93.600	0.000	95.600	-0	-0.000
58	-0	-0	-0	-0	-0	-0	-94.600	0.000	-94.600	-0	-0.000
59	-0	-0	-0	-0	-0	-0	-96.000	0.000	0.000	-0	-0.000
60	-0	-0	-0	-0	-0	-0	-94.600	0.000	94.600	-0	-0.000
61	-0	-0	-0	-0	-0	-0	-121.400	0.000	-110.200	-0	-0.000
62	-0	-0	-0	-0	-0	-0	-121.400	0.000	110.200	-0	-0.000
63	-0	-0	-0	-0	-0	-0	-187.300	0.000	-128.500	-0	-0.000
64	-0	-0	-0	-0	-0	-0	-177.000	0.000	0.000	-0	-0.000
65	-0	-0	-0	-0	-0	-0	-187.300	0.000	128.500	-0	-0.000
66	-0	-0	-0	-0	-0	-0	-253.200	0.000	-146.700	-0	-0.000
67	-0	-0	-0	-0	-0	-0	-253.200	0.000	146.700	-0	-0.000
68	-0	-0	-0	-0	-0	-0	-288.000	126.000	-156.000	-0	-0.000
69	-0	-0	-0	-0	-0	-0	-288.000	126.000	156.000	-0	-0.000
70	1	1	1	1	1	1	-288.000	-180.000	-156.000	-0	-0.000
71	1	1	1	1	1	1	-288.000	-160.000	156.000	-0	-0.000
72	-0	-0	-0	-0	-0	-0	-288.000	0.000	-156.000	-0	-0.000
73	-0	-0	-0	-0	-0	-0	-288.000	0.000	156.000	-0	-0.000
74	-0	-0	-0	-0	-0	-0	-288.000	-72.000	-156.000	-0	-0.000
75	-0	-0	-0	-0	-0	-0	-288.000	-72.000	156.000	-0	-0.000
76	-0	-0	-0	-0	-0	-0	-335.900	-152.000	-119.900	-0	-0.000
77	-0	-0	-0	-0	-0	-0	-335.900	-132.000	119.900	-0	-0.000
78	-0	-0	-0	-0	-0	-0	-354.700	-132.000	-105.600	-0	-0.000
79	-0	-0	-0	-0	-0	-0	-354.700	-132.000	105.600	-0	-0.000
80	-0	-0	-0	-0	-0	-0	-402.600	-72.000	-69.500	-0	-0.000
81	-0	-0	-0	-0	-0	-0	-402.600	-72.000	69.500	-0	-0.000
82	-0	-0	-0	-0	-0	-0	-402.600	-11.600	-69.500	-0	-0.000
83	-0	-0	-0	-0	-0	-0	-248.400	0.000	0.000	-0	-0.000
84	-0	-0	-0	-0	-0	-0	-402.600	-11.600	69.500	-0	-0.000
85	-0	-0	-0	-0	-0	-0	-399.000	26.900	-56.000	-0	-0.000
86	-0	-0	-0	-0	-0	-0	-399.000	26.900	56.000	-0	-0.000
87	-0	-0	-0	-0	-0	-0	-338.800	42.100	0.000	-0	-0.000
88	1	1	1	1	1	1	-384.000	-180.000	0.000	-0	-0.000
89	-0	-0	-0	-0	-0	-0	-384.000	96.000	0.000	-0	-0.000
90	-0	-0	-0	-0	-0	-0	-384.000	276.000	0.000	-0	-0.000
91	1	1	1	1	1	1	-383.000	276.000	0.000	-0	-0.000
92	1	1	1	1	1	1	-385.000	276.000	0.000	-0	-0.000
93	1	1	1	1	1	1	-384.000	276.000	1.000	-0	-0.000
94	1	1	1	1	1	1	-384.000	276.000	-1.000	-0	-0.000
95	-0	-0	-0	-0	-0	-0	-484.000	456.000	0.000	-0	-0.000
96	-0	-0	-0	-0	-0	-0	-384.000	552.000	0.000	-0	-0.000
97	-0	-0	-0	-0	-0	-0	-384.000	696.000	0.000	-0	-0.000

GENERATED NODAL DATA

NODE NUMBER	BOUNDARY CONDITION CODES						NODAL POINT COORDINATES			
	X	Y	Z	XX	YY	ZZ	X	Y	Z	T
1	-0	-0	-0	-0	-0	-0	384.000	636.000	0.000	-0.000
2	-0	-0	-0	-0	-0	-0	384.000	552.000	0.000	-0.000
3	-0	-0	-0	-0	-0	-0	384.000	456.000	0.000	-0.000
4	-0	-0	-0	-0	-0	-0	384.000	276.000	0.000	-0.000
5	1	1	1	1	1	1	383.000	276.000	0.000	-0.000
6	1	1	1	1	1	1	384.000	276.000	1.000	-0.000
7	1	1	1	1	1	1	385.000	276.000	0.000	-0.000
8	1	1	1	1	1	1	384.000	276.000	-1.000	-0.000
9	-0	-0	-0	-0	-0	-0	384.000	46.000	0.000	-0.000
10	1	1	1	1	1	1	384.000	-180.000	0.000	-0.000
11	-0	-0	-0	-0	-0	-0	399.000	26.900	-56.000	-0.000
12	-0	-0	-0	-0	-0	-0	338.800	42.100	0.000	-0.000
13	-0	-0	-0	-0	-0	-0	399.000	26.900	56.000	-0.000
14	-0	-0	-0	-0	-0	-0	402.600	-11.600	-69.500	-0.000
15	-0	-0	-0	-0	-0	-0	248.400	0.000	0.000	-0.000
16	-0	-0	-0	-0	-0	-0	402.600	-11.600	69.500	-0.000
17	-0	-0	-0	-0	-0	-0	402.600	-72.000	-69.500	-0.000
18	-0	-0	-0	-0	-0	-0	402.600	-72.000	69.500	-0.000
19	-0	-0	-0	-0	-0	-0	354.700	-132.000	-105.600	-0.000
20	-0	-0	-0	-0	-0	-0	354.700	-132.000	105.600	-0.000
21	-0	-0	-0	-0	-0	-0	335.900	-132.000	-119.900	-0.000
22	-0	-0	-0	-0	-0	-0	335.900	-132.000	119.900	-0.000
23	-0	-0	-0	-0	-0	-0	288.000	-72.000	-156.000	-0.000
24	-0	-0	-0	-0	-0	-0	288.000	-72.000	156.000	-0.000
25	-0	-0	-0	-0	-0	-0	288.000	0.000	-156.000	-0.000
26	-0	-0	-0	-0	-0	-0	288.000	0.000	156.000	-0.000
27	1	1	1	1	1	1	288.000	-180.000	-156.000	-0.000
28	1	1	1	1	1	1	288.000	-180.000	156.000	-0.000
29	-0	-0	-0	-0	-0	-0	288.000	126.000	-156.000	-0.000
30	-0	-0	-0	-0	-0	-0	288.000	126.000	156.000	-0.000
31	-0	-0	-0	-0	-0	-0	253.200	0.000	-146.700	-0.000
32	-0	-0	-0	-0	-0	-0	253.200	0.000	146.700	-0.000
33	-0	-0	-0	-0	-0	-0	187.300	0.000	-128.500	-0.000
34	-0	-0	-0	-0	-0	-0	177.000	0.000	0.000	-0.000
35	-0	-0	-0	-0	-0	-0	187.300	0.000	128.500	-0.000
36	-0	-0	-0	-0	-0	-0	121.400	0.000	-110.200	-0.000
37	-0	-0	-0	-0	-0	-0	121.400	0.000	110.200	-0.000
38	-0	-0	-0	-0	-0	-0	94.600	0.000	-94.600	-0.000
39	-0	-0	-0	-0	-0	-0	96.000	0.000	0.000	-0.000
40	-0	-0	-0	-0	-0	-0	94.600	0.000	94.600	-0.000
41	1	1	1	1	1	1	95.600	0.000	-95.600	-0.000
42	1	1	1	1	1	1	96.000	0.000	1.000	-0.000
43	1	1	1	1	1	1	93.600	0.000	95.600	-0.000
44	1	1	1	1	1	1	94.600	-1.000	-94.600	-0.000
45	1	1	1	1	1	1	96.000	-1.000	0.000	-0.000
46	1	1	1	1	1	1	94.600	-1.000	94.600	-0.000
47	-0	-0	-0	-0	-0	-0	0.000	0.000	0.000	-0.000
48	-0	-0	-0	-0	-0	-0	0.000	-192.000	0.000	-0.000
49	-0	-0	-0	-0	-0	-0	0.000	84.000	0.000	-0.000
50	-0	-0	-0	-0	-0	-0	0.000	156.000	0.000	-0.000
51	-0	-0	-0	-0	-0	-0	0.000	288.000	0.000	-0.000
52	1	1	1	1	1	1	-94.600	-1.000	-94.600	-0.000
53	1	1	1	1	1	1	-96.000	-1.000	0.000	-0.000
54	1	1	1	1	1	1	-94.600	-1.000	94.600	-0.000
55	1	1	1	1	1	1	-95.600	0.000	-95.600	-0.000
56	1	1	1	1	1	1	-96.000	0.000	1.000	-0.000

60	-0	-0	-0	-0	-0	-0	-94.600	0.000	94.600	-0.000
61	-0	-0	-0	-0	-0	-0	-121.400	0.000	-110.200	-0.000
62	-0	-0	-0	-0	-0	-0	-121.400	0.000	110.200	-0.000
63	-0	-0	-0	-0	-0	-0	-187.300	0.000	-128.500	-0.000
64	-0	-0	-0	-0	-0	-0	-177.000	0.000	0.000	-0.000
65	-0	-0	-0	-0	-0	-0	-187.300	0.000	128.500	-0.000
66	-0	-0	-0	-0	-0	-0	-253.200	0.000	-146.700	-0.000
67	-0	-0	-0	-0	-0	-0	-253.200	0.000	146.700	-0.000
68	-0	-0	-0	-0	-0	-0	-288.000	126.000	-156.000	-0.000
69	-0	-0	-0	-0	-0	-0	-288.000	126.000	156.000	-0.000
70	1	1	1	1	1	1	-288.000	-180.000	-156.000	-0.000
71	1	1	1	1	1	1	-288.000	-180.000	156.000	-0.000
72	-0	-0	-0	-0	-0	-0	-288.000	0.000	-156.000	-0.000
73	-0	-0	-0	-0	-0	-0	-288.000	0.000	156.000	-0.000
74	-0	-0	-0	-0	-0	-0	-288.000	-72.000	-156.000	-0.000
75	-0	-0	-0	-0	-0	-0	-288.000	-72.000	156.000	-0.000
76	-0	-0	-0	-0	-0	-0	-335.900	-132.000	-119.900	-0.000
77	-0	-0	-0	-0	-0	-0	-335.900	-132.000	119.900	-0.000
78	-0	-0	-0	-0	-0	-0	-354.700	-132.000	-105.600	-0.000
79	-0	-0	-0	-0	-0	-0	-354.700	-132.000	105.600	-0.000
80	-0	-0	-0	-0	-0	-0	-402.600	-72.000	-69.500	-0.000
81	-0	-0	-0	-0	-0	-0	-402.600	-72.000	69.500	-0.000
82	-0	-0	-0	-0	-0	-0	-402.600	-11.600	-69.500	-0.000
83	-0	-0	-0	-0	-0	-0	-248.400	0.000	0.000	-0.000
84	-0	-0	-0	-0	-0	-0	-402.600	-11.600	69.500	-0.000
85	-0	-0	-0	-0	-0	-0	-399.000	26.900	-56.000	-0.000
86	-0	-0	-0	-0	-0	-0	-399.000	26.900	56.000	-0.000
87	-0	-0	-0	-0	-0	-0	-338.800	42.100	0.000	-0.000
88	1	1	1	1	1	1	-334.000	-180.000	0.000	-0.000
89	-0	-0	-0	-0	-0	-0	-334.000	96.000	0.000	-0.000
90	-0	-0	-0	-0	-0	-0	-300.000	276.000	0.000	-0.000
91	1	1	1	1	1	1	-383.000	276.000	0.000	-0.000
92	1	1	1	1	1	1	-385.000	276.000	0.000	-0.000
93	1	1	1	1	1	1	-384.000	276.000	1.000	-0.000
94	1	1	1	1	1	1	-384.000	276.000	-1.000	-0.000
95	-0	-0	-0	-0	-0	-0	-384.000	456.000	0.000	-0.000
96	-0	-0	-0	-0	-0	-0	-384.000	552.000	0.000	-0.000
97	-0	-0	-0	-0	-0	-0	-384.000	696.000	0.000	-0.000

BOUNDARY ELEMENTS

ELEMENT TYPE = 7
NUMBER OF ELEMENTS = 20

ELEMENT LOAD CASE MULTIPLIERS

CASE(A)	CASE(B)	CASE(C)	CASE(D)
1.0000	-0.0000	-0.0000	-0.0000

ELEMENT NUMBER	NODE (N)	NODES DEFINING (NI)	CONSTRAINT DIRECTION (NJ)	(NK)	(NL)	CODE KD	CODE KR	GENERATION CODE (KN)	SPECIFIED DISPLACEMENT	SPECIFIED ROTATION	SPRING RATE
1	4	5	-0	-0	-0	1	-0	-0	-0.	-0.	.1000E+11
2	4	6	-0	-0	-0	1	-0	-0	-0.	-0.	.1000E+11
3	4	7	-0	-0	-0	1	-0	-0	-0.	-0.	.1000E+11
4	4	8	-0	-0	-0	1	-0	-0	-0.	-0.	.1000E+11
5	38	44	-0	-0	-0	1	-0	-0	-0.	-0.	.5000E+08
6	39	45	-0	-0	-0	1	-0	-0	-0.	-0.	.5000E+08
7	40	46	-0	-0	-0	1	-0	-0	-0.	-0.	.5000E+08
8	39	42	-0	-0	-0	1	-0	-0	-0.	-0.	.1000E+08
9	40	43	-0	-0	-0	1	-0	-0	-0.	-0.	.1000E+08
10	38	41	-0	-0	-0	1	-0	-0	-0.	-0.	.1000E+08
11	59	53	-0	-0	-0	1	-0	-0	-0.	-0.	.5000E+08
12	59	56	-0	-0	-0	1	-0	-0	-0.	-0.	.1000E+08
13	60	54	-0	-0	-0	1	-0	-0	-0.	-0.	.5000E+08
14	60	57	-0	-0	-0	1	-0	-0	-0.	-0.	.1000E+08
15	58	52	-0	-0	-0	1	-0	-0	-0.	-0.	.5000E+08
16	58	55	-0	-0	-0	1	-0	-0	-0.	-0.	.1000E+08
17	90	91	-0	-0	-0	1	-0	-0	-0.	-0.	.1000E+11
18	90	92	-0	-0	-0	1	-0	-0	-0.	-0.	.1000E+11
19	90	93	-0	-0	-0	1	-0	-0	-0.	-0.	.1000E+11
20	90	94	-0	-0	-0	1	-0	-0	-0.	-0.	.1000E+11

CONTROL INFORMATION

NUMBER OF PIPE ELEMENTS = 80
 NUMBER OF MATERIAL SETS = 1
 MAXIMUM NUMBER OF MATERIAL
 TEMPERATURE INPUT POINTS = 1
 NUMBER OF SECTION PROPERTY SETS = 7
 NUMBER OF BRANCH POINT NODES = 7
 MAXIMUM NUMBER OF TANGENTS
 COMMON TO A BRANCH POINT = 8
 FLAG FOR NEGLECTING AXIAL
 DEFORMATIONS IN BEND ELEMENTS = 0
 (EQ.1, NEGLECT)

MATERIAL PROPERTY TABLES

MATERIAL NUMBER = (1)
 NUMBER OF
 TEMPERATURE POINTS = (1)
 IDENTIFICATION = (STAINLESS STEEL
 1 70.00 29000000.0 .300 .500E-04

SECTION PROPERTY TABLE

SECTION NUMBER	OUTSIDE DIAMETER	WALL THICKNESS	SHAPE FACTOR FOR SHEAR	WEIGHT/ UNIT LENGTH	MASS/ UNIT LENGTH	DESCRIPTION
1	144.000	3.0000	0.0000	-0.	0.	SI
2	36.000	2.5000	-0.0000	.8200E+02	.2122E+00	PI
3	48.000	3.7500	-0.0000	.1640E+03	.4244E+00	PI
4	72.000	4.0000	-0.0000	-0.	0.	PI
5	192.000	8.0000	-0.0000	-0.	0.	RE
6	135.000	.4000	-0.0000	-0.	0.	SU
7	100.000	.3800	-0.0000	-0.	0.	

BRANCH POINT NODE LIST

BRANCH POINT	NODE NUMBER
1	9
2	25
3	26
4	47
5	72
6	73
7	89

ELEMENT LOAD CASE MULTIPLIERS

	CASE A	CASE B	CASE C	CASE D
X-DIRECTION GRAVITY	1.000	-0.000	-0.000	-0.000
Y-DIRECTION GRAVITY	1.000	-0.000	-0.000	-0.000
Z-DIRECTION GRAVITY	1.000	-0.000	-0.000	-0.000
THERMAL DISTORTION	-0.000	-0.000	-0.000	-0.000
PRESSURE DISTORTION	1.000	-0.000	-0.000	-0.000

PIPE ELEMENT INPUT DATA

ELEMENT NUMBER	ELEMENT TYPE	NODE -I	NODE -J	MATL. NUMBER	SECTION NUMBER	REFERENCE TEMPERATURE (BEND RADIUS)	INTERNAL PRESSURE (THIRD POINT)	D I R E C T I O N A (YX) (X3- ORDINATE)	C O S I N E S A (YY) (Y3- ORDINATE)	A (Y7) (Z3- ORDINATE)	NODE INCREMENT (WALL FRACTION)	INPUT TAG
1	TANGENT	1	2	1	1	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
2	TANGENT	2	3	1	1	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
3	TANGENT	3	4	1	1	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
4	TANGENT	4	9	1	1	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
5	TANGENT	9	10	1	6	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
6	TANGENT	9	11	1	1	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
7	TANGENT	9	13	1	1	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
8	TANGENT	9	12	1	1	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
9	BEND	11	14	1	2	-0.00	2400.00	(60.000)	(TI) (402.600)	(10.200) (-69.500)	(.1000)	IC
10	BEND	12	15	1	3	-0.00	2400.00	(117.900)	(TI) (303.400)	(0.000) (0.000)	(.1000)	IC
11	BEND	13	16	1	2	-0.00	2400.00	(60.000)	(TI) (402.600)	(10.200) (69.500)	(.1000)	IC
12	TANGENT	14	17	1	2	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
13	TANGENT	16	18	1	2	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
14	BEND	17	19	1	2	-0.00	2400.00	(60.000)	(TI) (402.600)	(-132.000) (-69.500)	(.1000)	IC
15	BEND	18	20	1	2	-0.00	2400.00	(60.000)	(TI) (402.600)	(-132.000) (69.500)	(.1000)	IC
16	TANGENT	19	21	1	2	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
17	TANGENT	20	22	1	2	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
18	BEND	21	23	1	2	-0.00	2400.00	(60.000)	(TI) (288.000)	(-132.000) (-156.000)	(.1000)	IC
19	BEND	22	24	1	2	-0.00	2400.00	(60.000)	(TI) (288.000)	(-132.000) (156.000)	(.1000)	IC
20	TANGENT	23	25	1	4	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
21	TANGENT	24	26	1	4	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
22	TANGENT	25	27	1	7	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
23	TANGENT	26	28	1	7	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
24	TANGENT	25	29	1	4	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
25	TANGENT	26	30	1	4	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
26	TANGENT	25	31	1	4	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
27	TANGENT	26	32	1	4	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
28	TANGENT	31	33	1	2	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
29	TANGENT	15	34	1	3	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
30	TANGENT	32	35	1	2	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
31	TANGENT	33	36	1	2	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
32	TANGENT	34	39	1	3	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
33	TANGENT	35	37	1	2	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
34	BEND	36	38	1	2	-0.00	2400.00	(60.000)	(TI) (106.000)	(0.000) (-106.000)	(.1000)	IC

PIPE ELEMENT INPUT DATA

EL N	ELEMENT TYPE	NODE -I	NODE -J	MATL. NUMBER	SECTION NUMBER	REFERENCE TEMPERATURE (HEND RADIUS)	INTERNAL PRESSURE (THIRD POINT)	D I R E C T I O N C O S I N E S			NODE INCREMENT (WALL FRACTION)	T ...G
								A(YX) (X3- ORDINATE)	A(YY) (Y3- ORDINATE)	A(YZ) (Z3- ORDINATE)		
35	BEND	37	40	1	2	-0.00 (60.000)	2400.00 (11)	(106.000)	(0.000)	(106.000)	(.1000)	IC
36	TANGENT	38	47	1	5	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
37	TANGENT	39	47	1	5	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
38	TANGENT	40	47	1	5	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
39	TANGENT	47	48	1	5	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
40	TANGENT	47	49	1	5	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
41	TANGENT	49	50	1	5	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
42	TANGENT	50	51	1	5	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
43	TANGENT	47	58	1	5	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
44	TANGENT	47	59	1	5	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
45	TANGENT	47	60	1	5	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
46	BEND	61	58	1	2	-0.00 (60.000)	2400.00 (11)	(-106.000)	(0.000)	(-106.000)	(.1000)	IC
47	BEND	62	60	1	2	-0.00 (60.000)	2400.00 (11)	(-106.000)	(0.000)	(106.000)	(.1000)	IC
48	TANGENT	61	63	1	2	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
49	TANGENT	59	64	1	3	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
50	TANGENT	62	65	1	2	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
51	TANGENT	65	66	1	2	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
52	TANGENT	64	83	1	3	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
53	TANGENT	65	67	1	2	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
54	TANGENT	66	72	1	4	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
55	TANGENT	67	73	1	4	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
56	TANGENT	68	72	1	4	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
57	TANGENT	69	73	1	4	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
58	TANGENT	70	72	1	7	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
59	TANGENT	71	73	1	7	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
60	TANGENT	72	74	1	4	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
61	TANGENT	73	75	1	4	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
62	BEND	76	74	1	2	-0.00 (60.000)	2400.00 (11)	(-288.000)	(-132.000)	(-156.000)	(.1000)	IC
63	BEND	77	75	1	2	-0.00 (60.000)	2400.00 (11)	(-288.000)	(-132.000)	(156.000)	(.1000)	IC
64	TANGENT	76	78	1	2	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
65	TANGENT	77	79	1	2	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
66	BEND	80	78	1	2	-0.00 (60.000)	2400.00 (11)	(-402.600)	(-132.000)	(-69.500)	(.1000)	IC
67	BEND	81	79	1	2	-0.00 (60.000)	2400.00 (11)	(-402.600)	(-132.000)	(69.500)	(.1000)	IC
68	TANGENT	80	82	1	2	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
69	TANGENT	81	84	1	2	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
70	BEND	85	82	1	2	-0.00 (60.000)	2400.00 (11)	(-402.600)	(10.200)	(-69.500)	(.1000)	IC

PIPE ELEMENT INPUT DATA

ELEMENT NUMBER	ELEMENT TYPE	NODE -I	NODE -J	MATL. NUMBER	SECTION NUMBER	REFERENCE TEMPERATURE (BEND RADIUS)	INTERNAL PRESSURE (THIRD POINT)	D I R E C T I O N A(YX) (X3- ORDINATE)	C O S I N E S A(YY) (Y3- ORDINATE)	A(YZ) (Z3- ORDINATE)	NODE INCREMENT (WALL FRACTION)	INPUT TAG
71	BEND	87	83	1	3	-0.00 (117.900)	2400.00 (11)	(-303.400)(	0.000)(	0.000)(	.1000)	IC
72	BEND	86	84	1	2	-0.00 (60.000)	2400.00 (11)	(-402.600)(	10.200)(	69.500)(	.1000)	IC
73	TANGENT	85	89	1	1	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
74	TANGENT	87	89	1	1	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
75	TANGENT	86	89	1	1	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
76	TANGENT	88	89	1	6	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
77	TANGENT	89	90	1	1	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
78	TANGENT	90	95	1	1	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
79	TANGENT	95	96	1	1	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II
80	TANGENT	96	97	1	1	-0.00	2400.00	-0.0000	-0.0000	-0.0000	1	II

BRANCH POINT	NODE NUMBER	C O N N E C T I O N S . . .							
-	9	-4AT J	5AT J	6AT I	7AT I	8AT I	0NONE	0NONE	E
2	25	-20AT J	22AT I	24AT I	26AT I	0NONE	0NONE	0NONE	0NONE
3	26	-21AT J	23AT I	25AT I	27AT J	0NONE	0NONE	0NONE	0NONE
4	47	-36AT J	-37AT J	-38AT J	39AT I	40AT I	43AT I	44AT I	45AT I
5	72	-54AT J	-56AT J	-58AT J	60AT I	0NONE	0NONE	0NONE	0NONE
6	73	-55AT J	-57AT J	-59AT J	61AT I	0NONE	0NONE	0NONE	0NONE
7	89	-73AT J	-74AT J	-75AT J	-76AT J	77AT I	0NONE	0NONE	0NONE

NODAL LOADS (STATIC) OR MASSES (DYNAMIC)

NODE NUMBER	LOAD CASE	X-AXIS FORCE	Y-AXIS FORCE	Z-AXIS FORCE	X-AXIS MOMENT	Y-AXIS MOMENT	Z-AXIS MOMENT
1	0	5.18000E+02	5.18000E+02	5.18000E+02	-0.	-0.	-0.
2	0	2.59000E+02	2.59000E+02	2.59000E+02	-0.	-0.	-0.
3	0	2.59000E+02	2.59000E+02	2.59000E+02	-0.	-0.	-0.
4	0	9.06000E+02	9.06000E+02	9.06000E+02	-0.	-0.	-0.
9	0	2.33000E+02	2.33000E+02	2.33000E+02	-0.	-0.	-0.
25	0	1.30000E+02	1.30000E+02	1.30000E+02	-0.	-0.	-0.
26	0	1.30000E+02	1.30000E+02	1.30000E+02	-0.	-0.	-0.
29	0	3.89000E+02	3.89000E+02	3.89000E+02	-0.	-0.	-0.
30	0	3.89000E+02	3.89000E+02	3.89000E+02	-0.	-0.	-0.
47	0	2.07300E+03	2.07300E+03	2.07300E+03	-0.	-0.	-0.
48	0	1.94300E+03	1.94300E+03	1.94300E+03	-0.	-0.	-0.
49	0	1.29500E+03	1.29500E+03	1.29500E+03	-0.	-0.	-0.
50	0	5.18000E+02	5.18000E+02	5.18000E+02	-0.	-0.	-0.
51	0	3.89000E+02	3.89000E+02	3.89000E+02	-0.	-0.	-0.
68	0	3.89000E+02	3.89000E+02	3.89000E+02	-0.	-0.	-0.
69	0	3.89000E+02	3.89000E+02	3.89000E+02	-0.	-0.	-0.
72	0	1.30000E+02	1.30000E+02	1.30000E+02	-0.	-0.	-0.
73	0	1.30000E+02	1.30000E+02	1.30000E+02	-0.	-0.	-0.
89	0	2.33000E+02	2.33000E+02	2.33000E+02	-0.	-0.	-0.
90	0	9.06000E+02	9.06000E+02	9.06000E+02	-0.	-0.	-0.
95	0	2.59000E+02	2.59000E+02	2.59000E+02	-0.	-0.	-0.
96	0	2.59000E+02	2.59000E+02	2.59000E+02	-0.	-0.	-0.
97	0	5.18000E+02	5.18000E+02	5.18000E+02	-0.	-0.	-0.

-136-

STRUCTURE LOAD CASE	ELEMENT		LOAD		MULTIPLIERS	
	A	H	C	D		
1	-0.000	-0.000	-0.000	-0.000		

PRINT OF FREQUENCIES

MOD NUM	CIRCULAR FREQUENCY (RAD/SEC)	FREQUENCY (CYCLES/SEC)	PERIOD (SEC)
1	.3854E+02	.6133E+01	.1630E+00
2	.3885E+02	.6183E+01	.1617E+00
3	.4120E+02	.6557E+01	.1525E+00
4	.4129E+02	.6571E+01	.1522E+00
5	.4167E+02	.6632E+01	.1508E+00
6	.4170E+02	.6636E+01	.1507E+00
7	.4224E+02	.6722E+01	.1488E+00
8	.5017E+02	.7984E+01	.1252E+00
9	.6417E+02	.1021E+02	.9791E-01
10	.7372E+02	.1173E+02	.8523E-01
11	.8419E+02	.1340E+02	.7463E-01
12	.8730E+02	.1389E+02	.7197E-01
13	.8952E+02	.1425E+02	.7019E-01
14	.9108E+02	.1450E+02	.6899E-01
15	.9242E+02	.1471E+02	.6799E-01
16	.9782E+02	.1557E+02	.6423E-01
17	.1074E+03	.1710E+02	.5849E-01
18	.1188E+03	.1890E+02	.5290E-01
19	.1777E+03	.2829E+02	.3535E-01
20	.1779E+03	.2831E+02	.3532E-01
21	.1855E+03	.2952E+02	.3387E-01
22	.1872E+03	.2980E+02	.3356E-01
23	.1905E+03	.3032E+02	.3298E-01
24	.1916E+03	.3049E+02	.3280E-01
25	.1916E+03	.3050E+02	.3279E-01
26	.2000E+03	.3183E+02	.3141E-01
27	.2002E+03	.3186E+02	.3139E-01
28	.2482E+03	.3950E+02	.2532E-01
29	.2539E+03	.4042E+02	.2474E-01

30 .2559E+03 .4073E+02 .2455E-01

EIGENSOLUTION TIME LOG

EIGENSOLUTION = 88.60
PRINTING = .03

MODE NUMBER 1
FREQUENCY = 6.13318 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X=	Y=	Z=	X=	Y=	Z=
	TRANSLATION	TRANSLATION	TRANSLATION	ROTATION	ROTATION	ROTATION
1	-1.10801E-14	-6.20554E-16	-2.20773E-02	-5.53596E-05	-1.47509E-05	2.77839E-17
2	-6.95790E-15	-6.18774E-16	-1.38638E-02	-5.35219E-05	-1.47509E-05	2.68616E-17
3	-4.31042E-15	-6.16992E-16	-8.58872E-03	-4.99985E-05	-1.47509E-05	2.50933E-17
4	-1.16538E-18	-6.12543E-16	-2.52237E-06	-3.70484E-05	-1.47509E-05	1.85940E-17
9	2.41748E-15	-6.00244E-16	4.75942E-03	-2.39643E-05	-1.47509E-05	1.16871E-17
11	7.90934E-04	-1.33968E-03	6.61752E-03	-2.36945E-05	-1.47575E-05	-2.55464E-07
12	3.01908E-15	-1.10108E-15	5.31613E-03	-2.35584E-05	-1.51532E-05	1.12685E-17
13	-7.90934E-04	1.33968E-03	6.61752E-03	-2.36945E-05	-1.47575E-05	2.55464E-07
14	6.08998E-04	-1.55683E-03	7.00780E-03	2.23670E-06	-1.41552E-05	-1.21521E-05
15	3.17304E-15	-1.09225E-15	3.85689E-03	-1.13269E-05	-2.55076E-05	-4.87392E-16
16	-6.68998E-04	1.55683E-03	7.00780E-03	2.23670E-06	-1.41552E-05	1.21521E-05
17	-2.32411E-04	-1.56825E-03	6.50913E-03	1.05299E-05	-1.87369E-05	-1.41975E-05
18	2.32411E-04	1.56825E-03	6.50913E-03	1.05299E-05	-1.87369E-05	1.41975E-05
19	1.03151E-04	-7.55922E-04	4.27897E-03	1.62540E-05	-2.99945E-05	1.05556E-06
20	-1.03151E-04	7.55922E-04	4.27897E-03	1.62540E-05	-2.99945E-05	-1.05556E-06
21	5.34982E-04	-5.73108E-04	3.69710E-03	1.70070E-05	-3.04277E-05	2.27282E-06
22	-5.34982E-04	5.73108E-04	3.69710E-03	1.70070E-05	-3.04277E-05	-2.27282E-06
23	1.70204E-03	-8.18311E-05	3.90639E-03	4.35256E-05	-2.56432E-05	-1.17195E-05
24	-1.70204E-03	8.18311E-05	3.90639E-03	4.35256E-05	-2.56432E-05	1.17195E-05
25	2.55151E-03	7.78193E-05	7.05472E-03	4.50358E-05	-2.54478E-05	-1.27631E-05
26	-2.55151E-03	-7.78193E-05	7.05472E-03	4.50358E-05	-2.54478E-05	1.27631E-05
29	4.34221E-03	7.80045E-05	1.32878E-02	4.92752E-05	-2.54478E-05	-1.41485E-05
30	-4.34221E-03	-7.80045E-05	1.32878E-02	4.92752E-05	-2.54478E-05	1.41485E-05
31	2.30206E-03	1.03119E-04	6.12491E-03	4.43388E-05	-2.63697E-05	-1.25530E-05
32	-2.30206E-03	-1.03119E-04	6.12491E-03	4.43388E-05	-2.63697E-05	1.25530E-05
33	1.65030E-03	1.05357E-04	3.77035E-03	2.67238E-05	-3.71560E-05	-7.03471E-06
34	3.17535E-15	-5.77582E-16	2.01949E-03	-6.04200E-06	-2.10568E-05	-6.12710E-18
35	-1.65030E-03	-1.05357E-04	3.77035E-03	2.67238E-05	-3.71560E-05	7.03471E-06
36	9.48748E-04	5.52457E-05	1.25175E-03	9.15875E-06	-3.11629E-05	-1.30783E-06
37	-9.48748E-04	-5.52457E-05	1.25175E-03	9.15875E-06	-3.11629E-05	1.30783E-06
38	6.31439E-04	9.09161E-07	6.33872E-04	5.86383E-08	-6.90943E-06	-2.87335E-08
39	3.17701E-15	-1.24371E-16	6.65624E-04	-4.65717E-08	-7.04931E-06	-1.48462E-18
40	-6.31439E-04	-9.09161E-07	6.33872E-04	5.86383E-08	-6.90943E-06	2.87335E-08
47	3.17717E-15	6.37452E-18	-1.08011E-13	-7.37940E-19	-6.91281E-06	-1.44443E-18
48	2.99942E-15	6.39977E-18	-1.11624E-13	9.78534E-18	-6.91281E-06	-1.15689E-18
49	3.34429E-15	6.39585E-18	-1.04500E-13	-5.88397E-18	-6.91281E-06	-1.62255E-18
50	3.47837E-15	6.39803E-18	-1.10419E-13	-7.66525E-18	-6.91281E-06	-1.68404E-18
51	3.71448E-15	6.39716E-18	-1.11851E-13	-6.65770E-18	-6.91281E-06	-1.71881E-18
58	6.31439E-04	-9.09161E-07	-6.33872E-04	-5.86383E-08	-6.90943E-06	-2.87335E-08
59	3.17037E-15	1.49101E-16	-6.65624E-04	4.65717E-08	-7.04931E-06	-1.50512E-18
60	-6.31439E-04	9.09161E-07	-6.33872E-04	-5.86383E-08	-6.90943E-06	2.87335E-08
61	9.48748E-04	5.52457E-05	-1.25175E-03	-9.15875E-06	-3.11629E-05	-1.30783E-06
62	-9.48748E-04	-5.52457E-05	-1.25175E-03	-9.15875E-06	-3.11629E-05	1.30783E-06
63	1.65030E-03	-1.05357E-04	-3.77035E-03	-2.67238E-05	-3.71560E-05	-7.03471E-06
64	3.07667E-15	6.83056E-16	-2.01949E-03	6.04200E-06	-2.10568E-05	-7.04385E-18

65	-1.65030E-03	1.05354E-04	-3.77035E-03	-2.67238E-05	-3.71560E-05	7.03471E-06
66	2.30260E-03	-1.03119E-04	-6.12491E-03	-4.43388E-05	-2.63697E-05	-1.25530E-05
67	-2.30260E-03	1.03119E-04	-6.12491E-03	-4.43388E-05	-2.63697E-05	1.25530E-05
68	4.34221E-03	-7.80485E-05	-1.32678E-02	-4.92752E-05	-2.54478E-05	-1.41485E-05
69	-4.34221E-03	7.80485E-05	-1.32678E-02	-4.92752E-05	-2.54478E-05	1.41485E-05
72	2.55151E-03	-7.78193E-05	-7.05472E-03	-4.50358E-05	-2.54478E-05	-1.27631E-05
73	-2.55151E-03	7.78193E-05	-7.05472E-03	-4.50358E-05	-2.54478E-05	1.27631E-05
74	1.70204E-03	-8.18311E-05	-3.90639E-03	-4.35256E-05	-2.56432E-05	-1.17195E-05
75	-1.70204E-03	8.18311E-05	-3.90639E-03	-4.35256E-05	-2.56432E-05	1.17195E-05
76	5.34942E-04	5.73108E-04	-3.69710E-03	-1.70070E-05	-3.04277E-05	2.27282E-06
77	-5.34942E-04	-5.73108E-04	-3.69710E-03	-1.70070E-05	-3.04277E-05	-2.27282E-06
78	1.03161E-04	7.55422E-04	-4.27897E-03	-1.62540E-05	-2.99945E-05	1.05556E-06
79	-1.03161E-04	-7.55422E-04	-4.27897E-03	-1.62540E-05	-2.99945E-05	-1.05556E-06
80	-2.32411E-04	1.56825E-03	-6.50913E-03	-1.05299E-05	-1.87369E-05	-1.41975E-05
81	2.32411E-04	-1.56825E-03	-6.50913E-03	-1.05299E-05	-1.87369E-05	1.41975E-05
82	6.64948E-04	1.55643E-03	-7.00780E-03	-2.23670E-06	-1.41552E-05	-1.21521E-05
83	-6.64948E-04	-1.55643E-03	-7.00780E-03	-2.23670E-06	-1.41552E-05	1.21521E-05
84	2.99843E-15	1.26294E-15	-3.85609E-03	1.13269E-05	-2.55076E-05	-4.70955E-18
85	-2.99843E-15	-1.26294E-15	-3.85609E-03	1.13269E-05	-2.55076E-05	4.70955E-18
86	6.64948E-04	1.55643E-03	-7.00780E-03	-2.23670E-06	-1.41552E-05	-1.21521E-05
87	-6.64948E-04	-1.55643E-03	-7.00780E-03	-2.23670E-06	-1.41552E-05	1.21521E-05
88	7.90934E-04	1.33968E-03	-6.61752E-03	2.36945E-05	-1.47575E-05	-2.55464E-07
89	-7.90934E-04	-1.33968E-03	-6.61752E-03	2.36945E-05	-1.47575E-05	2.55464E-07
90	2.58708E-15	9.87707E-16	-5.31613E-03	2.35584E-05	-1.51532E-05	9.53689E-18
91	-2.58708E-15	-9.87707E-16	-5.31613E-03	2.35584E-05	-1.51532E-05	-9.53689E-18
92	1.99123E-15	5.21834E-16	-4.75992E-03	2.39643E-05	-1.47509E-05	4.33228E-18
93	-1.99123E-15	-5.21834E-16	-4.75992E-03	2.39643E-05	-1.47509E-05	-4.33228E-18
94	4.89458E-19	5.27001E-16	2.52237E-06	3.70484E-05	-1.47509E-05	1.51804E-17
95	-4.89458E-19	-5.27001E-16	2.52237E-06	3.70484E-05	-1.47509E-05	-1.51804E-17
96	3.51901E-15	5.32804E-16	8.58872E-03	4.9985E-05	-1.47509E-05	2.04865E-17
97	-3.51901E-15	-5.32804E-16	8.58872E-03	4.9985E-05	-1.47509E-05	-2.04865E-17
98	-5.68045E-15	5.34303E-16	1.38638E-02	5.35219E-05	-1.47509E-05	2.19302E-17
99	5.68045E-15	-5.34303E-16	-1.38638E-02	-5.35219E-05	1.47509E-05	-2.19302E-17
100	-9.04584E-15	5.35423E-16	2.20773E-02	5.53596E-05	-1.47509E-05	2.26831E-17
101	9.04584E-15	-5.35423E-16	-2.20773E-02	-5.53596E-05	1.47509E-05	-2.26831E-17

ANALYSIS

MODE NUMBER 1
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

MODE NUMBER	X=	Y=	Z=	X=	Y=	Z=
	TRANSLATION	TRANSLATION	TRANSLATION	ROTATION	ROTATION	ROTATION
1	-5.01870E-13	-2.81084E-14	-1.00000E+00	-2.50754E-03	-6.68149E-04	1.25848E-15
2	-3.15161E-13	-2.80270E-14	-6.27900E-01	-2.42430E-03	-6.68149E-04	1.21671E-15
3	-1.95242E-13	-2.79469E-14	-3.89029E-01	-2.26470E-03	-6.68149E-04	1.13661E-15
4	-5.27824E-17	-2.77454E-14	-1.14252E-04	-1.67812E-03	-6.68149E-04	6.42221E-16
5	0.	0.	0.	0.	0.	0.
6	0.	0.	0.	0.	0.	0.
7	0.	0.	0.	0.	0.	0.
8	0.	0.	0.	0.	0.	0.
9	1.09501E-13	-2.73645E-14	2.15003E-01	-1.08547E-03	-6.68149E-04	5.29373E-16
10	0.	0.	0.	0.	0.	0.
11	3.58257E-02	-6.06815E-02	2.99743E-01	-1.07325E-03	-6.68446E-04	-1.15713E-05
12	1.36786E-13	-4.98739E-14	2.40790E-01	-1.06709E-03	-6.86371E-04	5.10409E-16
13	-3.58257E-02	6.06815E-02	2.99743E-01	-1.07325E-03	-6.68446E-04	1.15713E-05
14	3.03025E-02	-7.05171E-02	3.17424E-01	1.01312E-04	-6.41167E-04	-5.50436E-04
15	1.43700E-13	-4.94741E-14	1.74644E-01	-5.13055E-04	-1.15538E-03	-2.20766E-16
16	-3.03025E-02	7.05171E-02	3.17424E-01	1.01312E-04	-6.41167E-04	5.50436E-04
17	-1.05271E-02	-7.10343E-02	2.94834E-01	4.76957E-04	-8.48698E-04	-6.43080E-04
18	1.05271E-02	7.10343E-02	2.94834E-01	4.76957E-04	-8.48698E-04	6.43080E-04
19	4.67270E-03	-3.42398E-02	1.43818E-01	7.36232E-04	-1.35861E-03	4.78121E-05
20	-4.67270E-03	3.42398E-02	1.93818E-01	7.36232E-04	-1.35861E-03	-4.78121E-05
21	2.42322E-02	-2.59541E-02	1.67452E-01	7.70341E-04	-1.37820E-03	1.02948E-04
22	-2.42322E-02	2.59541E-02	1.67452E-01	7.70341E-04	-1.37820E-03	-1.02948E-04
23	7.70947E-02	3.70657E-03	1.76941E-01	1.97151E-03	-1.16152E-03	-5.30839E-04
24	-7.70947E-02	-3.70657E-03	1.76941E-01	1.97151E-03	-1.16152E-03	5.30839E-04
25	1.15572E-01	3.52486E-03	3.19540E-01	2.03992E-03	-1.15267E-03	-5.78111E-04
26	-1.15572E-01	-3.52486E-03	3.19540E-01	2.03992E-03	-1.15267E-03	5.78111E-04
27	0.	0.	0.	0.	0.	0.
28	0.	0.	0.	0.	0.	0.
29	1.90682E-01	3.53524E-03	6.01878E-01	2.23194E-03	-1.15267E-03	-6.40861E-04
30	-1.90682E-01	-3.53524E-03	6.01878E-01	2.23194E-03	-1.15267E-03	6.40861E-04
31	1.04300E-01	4.67084E-03	2.77430E-01	2.00834E-03	-1.19442E-03	-5.68593E-04
32	-1.04300E-01	-4.67084E-03	2.77430E-01	2.00834E-03	-1.19442E-03	5.68593E-04
33	7.47510E-02	4.77200E-03	1.70780E-01	1.21047E-03	-1.68300E-03	-3.18640E-04
34	1.43829E-13	-2.61613E-14	9.14901E-02	-2.73675E-04	-9.53778E-04	-2.77529E-16
35	-7.47510E-02	-4.77200E-03	1.70780E-01	1.21047E-03	-1.68300E-03	3.18640E-04
36	4.24739E-02	2.50234E-03	5.66480E-02	4.14849E-04	-1.41154E-03	-5.92389E-05
37	-4.24739E-02	-2.50234E-03	5.66480E-02	4.14849E-04	-1.41154E-03	5.92389E-05
38	2.86013E-02	4.11808E-15	2.87115E-02	2.65604E-06	-3.12965E-04	-1.30149E-06
39	1.43904E-13	-5.63303E-15	3.01447E-02	-2.10948E-06	-3.19301E-04	-6.72466E-17
40	-2.86013E-02	-4.11808E-15	2.87115E-02	2.65604E-06	-3.12965E-04	1.30149E-06
41	0.	0.	0.	0.	0.	0.
42	0.	0.	0.	0.	0.	0.
43	0.	0.	0.	0.	0.	0.
44	0.	0.	0.	0.	0.	0.
45	0.	0.	0.	0.	0.	0.
46	0.	0.	0.	0.	0.	0.
47	1.43911E-13	2.88730E-16	-4.80239E-12	-3.34277E-17	-3.13118E-04	-6.54261E-17

48	1.35878E-13	2.89880E-16	-5.05608E-12	4.43231E-16	-3.13118E-04	-5.24018E-17
49	1.51481E-13	2.89703E-16	-4.95987E-12	-2.66517E-16	-3.13118E-04	-7.34941E-17
50	1.57554E-13	2.89801E-16	-5.00146E-12	-3.47200E-16	-3.13118E-04	-7.62791E-17
51	1.64267E-13	2.89762E-16	-5.06632E-12	-3.92154E-16	-3.13118E-04	-7.78540E-17
52	0.	0.	0.	0.	0.	0.
53	0.	0.	0.	0.	0.	0.
54	0.	0.	0.	0.	0.	0.
55	0.	0.	0.	0.	0.	0.
56	0.	0.	0.	0.	0.	0.
57	0.	0.	0.	0.	0.	0.
58	2.86013E-02	-4.11808E-05	-2.87115E-02	-2.65604E-06	-3.12965E-04	-1.30149E-06
59	1.43603E-13	6.34594E-15	-3.01497E-02	2.10946E-06	-3.19301E-04	-6.81751E-17
60	-2.86013E-02	4.11808E-05	-2.87115E-02	-2.65604E-06	-3.12965E-04	1.30149E-06
61	4.29739E-02	-2.50238E-03	-5.66986E-02	-4.14849E-04	-1.41154E-03	-5.92389E-05
62	-4.29739E-02	2.50238E-03	-5.66986E-02	-4.14849E-04	-1.41154E-03	5.92389E-05
63	7.47510E-02	-4.77206E-03	-1.70780E-01	-1.21047E-03	-1.68300E-03	-3.18640E-04
64	1.39359E-13	3.00393E-14	-9.14961E-02	2.73675E-04	-9.53778E-04	-3.19054E-16
65	-7.47510E-02	4.77206E-03	-1.70780E-01	-1.21047E-03	-1.68300E-03	3.18640E-04
66	1.04390E-01	-4.67084E-03	-2.77430E-01	-2.10834E-03	-1.19442E-03	-5.68593E-04
67	-1.04390E-01	4.67084E-03	-2.77430E-01	-2.10834E-03	-1.19442E-03	5.68593E-04
68	1.96602E-01	-3.53524E-03	-6.01878E-01	-2.23194E-03	-1.15267E-03	-6.40861E-04
69	-1.96602E-01	3.53524E-03	-6.01878E-01	-2.23194E-03	-1.15267E-03	6.40861E-04
70	0.	0.	0.	0.	0.	0.
71	0.	0.	0.	0.	0.	0.
72	1.15572E-01	-3.52486E-03	-3.19546E-01	-2.03992E-03	-1.15267E-03	-5.78111E-04
73	-1.15572E-01	3.52486E-03	-3.19546E-01	-2.03992E-03	-1.15267E-03	5.78111E-04
74	7.70947E-02	-3.70657E-03	-1.76941E-01	-1.97151E-03	-1.16152E-03	-5.30839E-04
75	-7.70947E-02	3.70657E-03	-1.76941E-01	-1.97151E-03	-1.16152E-03	5.30839E-04
76	2.42322E-02	2.59571E-02	-1.67462E-01	-7.70341E-04	-1.37824E-03	1.02948E-04
77	-2.42322E-02	-2.59571E-02	-1.67462E-01	-7.70341E-04	-1.37824E-03	-1.02948E-04
78	4.67270E-03	3.42398E-02	-1.93818E-01	-7.36232E-04	-1.35861E-03	4.78121E-05
79	-4.67270E-03	-3.42398E-02	-1.93818E-01	-7.36232E-04	-1.35861E-03	-4.78121E-05
80	-1.05271E-02	7.10343E-02	-2.94834E-01	-4.76957E-04	-8.48698E-04	-6.43080E-04
81	1.05271E-02	-7.10343E-02	-2.94834E-01	-4.76957E-04	-8.48698E-04	6.43080E-04
82	3.03025E-02	7.05171E-02	-3.17424E-01	-1.01312E-04	-6.41167E-04	-5.50436E-04
83	1.35815E-13	5.72055E-14	-1.74699E-01	5.13055E-04	-1.15538E-03	-2.13321E-16
84	-3.03025E-02	-7.05171E-02	-3.17424E-01	-1.01312E-04	-6.41167E-04	5.50436E-04
85	3.58257E-02	6.06815E-02	-2.99743E-01	1.07325E-03	-6.68446E-04	-1.15713E-05
86	-3.58257E-02	-6.06815E-02	-2.99743E-01	1.07325E-03	-6.68446E-04	1.15713E-05
87	1.17143E-13	4.07366E-14	-2.40776E-01	1.06709E-03	-6.86371E-04	4.31977E-16
88	0.	0.	0.	0.	0.	0.
89	9.01436E-14	2.30307E-14	-2.15603E-01	1.08547E-03	-6.68149E-04	4.22709E-16
90	-4.02843E-17	2.30313E-14	1.14252E-04	1.67812E-03	-6.68149E-04	6.87601E-16
91	0.	0.	0.	0.	0.	0.
92	0.	0.	0.	0.	0.	0.
93	0.	0.	0.	0.	0.	0.
94	0.	0.	0.	0.	0.	0.
95	-1.59395E-13	2.41354E-14	3.89029E-01	2.26476E-03	-6.68149E-04	4.27943E-16
96	-2.57298E-13	2.42051E-14	6.27908E-01	2.42430E-03	-6.68149E-04	4.93335E-16
97	-4.09735E-13	2.42749E-14	1.00000E+00	2.50754E-03	-6.68149E-04	1.02744E-15

MODAL ANALYSIS

MODE NUMBER 2
FREQUENCY = 6.18341 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	-4.22219E-13	-2.04253E-14	2.24141E-02	5.62509E-05	1.54534E-05	1.06566E-15
2	-2.03546E-13	-2.03574E-14	1.40645E-02	5.43545E-05	1.54534E-05	1.02598E-15
3	-1.62101E-13	-2.02995E-14	8.70515E-03	5.07187E-05	1.54534E-05	4.49940E-16
4	-5.21924E-17	-2.01223E-14	2.01351E-00	3.73572E-05	1.54534E-05	6.70723E-16
9	8.01974E-14	-1.90849E-14	-4.75176E-03	2.38965E-05	1.54534E-05	3.81483E-16
11	-8.26657E-04	1.33547E-03	-6.61405E-03	2.36178E-05	1.54464E-05	2.79810E-07
12	9.98336E-14	-3.60966E-14	-5.26037E-03	2.34412E-05	1.58839E-05	3.66997E-16
13	8.26657E-04	-1.33547E-03	-6.61405E-03	2.36178E-05	1.54464E-05	-2.79810E-07
14	-6.06442E-04	1.55954E-03	-6.98848E-03	-2.91331E-06	1.40371E-05	1.38810E-05
15	1.04190E-13	-3.52760E-14	-3.70425E-03	1.09263E-05	2.50209E-05	-1.78788E-16
16	6.06442E-04	-1.55054E-03	-6.98848E-03	-2.91331E-06	1.40371E-05	-1.38810E-05
17	3.59437E-04	1.56132E-03	-6.44140E-03	-1.14348E-05	1.80923E-05	1.62242E-05
18	-3.59437E-04	-1.56132E-03	-6.44140E-03	-1.14348E-05	1.80923E-05	-1.62242E-05
19	1.67631E-04	6.57343E-04	-4.19848E-03	-1.69324E-05	2.88481E-05	-4.67629E-07
20	-1.67631E-04	-6.57343E-04	-4.19848E-03	-1.69324E-05	2.88481E-05	4.67629E-07
21	-2.46375E-04	4.65524E-04	-3.63970E-03	-1.77091E-05	2.92831E-05	-2.59667E-06
22	2.46375E-04	-4.65524E-04	-3.63970E-03	-1.77091E-05	2.92831E-05	2.59667E-06
23	-1.20632E-03	-1.12007E-04	-3.88205E-03	-4.27889E-05	2.49881E-05	7.79551E-06
24	1.20632E-03	1.12007E-04	-3.88205E-03	-4.27889E-05	2.49881E-05	-7.79551E-06
25	-1.76947E-03	-1.08218E-04	-6.97651E-03	-4.42859E-05	2.48385E-05	8.81919E-06
26	1.76947E-03	1.08218E-04	-6.97651E-03	-4.42859E-05	2.48385E-05	-8.81919E-06
29	-3.00927E-03	-1.08543E-04	-1.31170E-02	-4.85397E-05	2.48385E-05	4.79506E-06
30	3.00927E-03	1.08543E-04	-1.31170E-02	-4.85397E-05	2.48385E-05	-4.79506E-06
31	-1.52548E-03	-1.23696E-05	-6.06700E-03	-4.35497E-05	2.57418E-05	8.83816E-06
32	1.52548E-03	1.23696E-05	-6.06700E-03	-4.35497E-05	2.57418E-05	-8.83816E-06
33	-8.87789E-04	4.21909E-05	-3.77754E-03	-2.55067E-05	3.54529E-05	7.09931E-06
34	1.04075E-13	-1.77409E-14	-1.44646E-03	5.81316E-06	1.83779E-05	-2.04425E-16
35	8.87789E-04	-4.21909E-05	-3.77754E-03	-2.55067E-05	3.54529E-05	-7.09931E-06
36	-2.28091E-04	-1.35494E-05	-1.42107E-03	-8.25324E-06	2.75942E-05	2.48591E-06
37	2.28091E-04	1.35494E-05	-1.42107E-03	-8.25324E-06	2.75942E-05	-2.48591E-06
38	9.21830E-06	2.77567E-07	-9.34546E-04	-8.03810E-08	4.96917E-08	4.02572E-08
39	1.03910E-13	-3.24258E-15	-9.38383E-04	1.25857E-08	1.62656E-07	-3.76030E-17
40	-9.21830E-06	-2.77567E-07	-9.34546E-04	-8.03810E-08	4.96917E-08	-4.02572E-08
47	1.93886E-13	1.16551E-16	-9.41636E-04	3.24724E-08	4.00732E-16	-3.58453E-17
48	1.00809E-13	1.17104E-16	-9.68268E-04	5.95802E-08	4.00736E-16	-2.52023E-17
49	1.08520E-13	1.16825E-16	-9.56930E-04	-7.77847E-08	4.00751E-16	-4.17510E-17
50	1.12099E-13	1.16923E-16	-9.66843E-04	-9.35087E-08	4.00752E-16	-4.38381E-17
51	1.14386E-13	1.17005E-16	-9.82965E-04	-1.02352E-07	4.00754E-16	-4.50237E-17
58	-9.21830E-06	2.74507E-07	-9.34546E-04	-8.03810E-08	-4.96917E-08	4.02572E-08
59	1.03887E-13	3.47603E-15	-9.38383E-04	1.25857E-08	-1.62656E-07	-3.77733E-17
60	9.21830E-06	-2.74507E-07	-9.34546E-04	-8.03810E-08	4.96917E-08	4.02572E-08
61	2.28091E-04	-1.35494E-05	-1.42107E-03	-8.25324E-06	-2.75942E-05	-2.48591E-06
62	-2.28091E-04	1.35494E-05	-1.42107E-03	-8.25324E-06	2.75942E-05	2.48591E-06
63	8.87789E-04	4.21909E-05	-3.77754E-03	-2.55067E-05	-3.54529E-05	-7.09931E-06
64	1.03841E-13	1.90121E-14	-1.44646E-03	5.81316E-06	-1.83779E-05	-2.04424E-16

65	-8.87749E-04	-4.21909E-05	-3.77754E-03	-2.55067E-05	-3.54529E-05	7.09931E-06
66	1.52548E-03	-1.23696E-05	-6.06700E-03	-4.35497E-05	-2.57418E-05	-6.83816E-06
67	-1.52548E-03	1.23696E-05	-6.06700E-03	-4.35497E-05	-2.57418E-05	6.83816E-06
68	3.00927E-03	-1.08543E-04	-1.31170E-02	-4.85397E-05	-2.48385E-05	-4.79506E-06
69	-3.00927E-03	1.08543E-04	-1.31170E-02	-4.85397E-05	-2.48385E-05	4.79506E-06
72	1.76947E-03	-1.08218E-04	-6.97651E-03	-4.42859E-05	-2.48385E-05	-6.81919E-06
73	-1.76947E-03	1.08218E-04	-6.97651E-03	-4.42859E-05	-2.48385E-05	6.81919E-06
74	1.20632E-03	-1.12007E-04	-3.88205E-03	-4.27889E-05	-2.49881E-05	-7.79551E-06
75	-1.20632E-03	1.12007E-04	-3.88205E-03	-4.27889E-05	-2.49881E-05	7.79551E-06
76	2.46375E-04	4.65524E-04	-3.63970E-03	-1.77091E-05	-2.92831E-05	2.59667E-06
77	-2.46375E-04	-4.65524E-04	-3.63970E-03	-1.77091E-05	-2.92831E-05	-2.59667E-06
78	-1.67631E-04	6.57343E-04	-4.19848E-03	-1.69324E-05	-2.88481E-05	4.67629E-07
79	1.67631E-04	-6.57343E-04	-4.19848E-03	-1.69324E-05	-2.88481E-05	-4.67629E-07
80	-3.59937E-04	1.50132E-03	-6.44140E-03	-1.14348E-05	-1.80923E-05	-1.62242E-05
81	3.59937E-04	-1.50132E-03	-6.44140E-03	-1.14348E-05	-1.80923E-05	1.62242E-05
82	6.66442E-04	1.55054E-03	-6.98848E-03	-2.91331E-06	-1.40371E-05	-1.38810E-05
83	-6.66442E-04	-1.55054E-03	-6.98848E-03	-2.91331E-06	-1.40371E-05	1.38810E-05
84	1.03772E-13	3.79602E-14	-3.70425E-03	1.04263E-05	-2.50209E-05	-1.94297E-16
85	-1.03772E-13	-3.79602E-14	-3.70425E-03	1.04263E-05	-2.50209E-05	1.94297E-16
86	0.66042E-04	1.33547E-03	-6.61405E-03	2.36176E-05	-1.54464E-05	-2.79810E-07
87	-0.66042E-04	-1.33547E-03	-6.61405E-03	2.36176E-05	-1.54464E-05	2.79810E-07
88	9.42092E-14	3.93799E-14	-5.26037E-03	2.34412E-05	-1.54839E-05	3.63378E-16
89	-9.42092E-14	-3.93799E-14	-5.26037E-03	2.34412E-05	-1.54839E-05	-3.63378E-16
90	7.95498E-14	2.31883E-14	-4.75170E-03	2.38965E-05	-1.54534E-05	6.64906E-16
91	-7.95498E-14	-2.31883E-14	-4.75170E-03	2.38965E-05	-1.54534E-05	-6.64906E-16
92	-5.14142E-17	2.35560E-14	2.61351E-06	3.73572E-05	-1.54534E-05	4.41751E-16
93	5.14142E-17	-2.35560E-14	-2.61351E-06	-3.73572E-05	1.54534E-05	-4.41751E-16
94	-1.60702E-13	2.37533E-14	8.70515E-03	5.07187E-05	-1.54534E-05	1.01719E-15
95	1.60702E-13	-2.37533E-14	-8.70515E-03	-5.07187E-05	1.54534E-05	-1.01719E-15
96	-2.61273E-13	2.38324E-14	1.40645E-02	5.43545E-05	-1.54534E-05	1.05649E-15
97	2.61273E-13	-2.38324E-14	-1.40645E-02	-5.43545E-05	1.54534E-05	-1.05649E-15

MODE NUMBER 2
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X=	Y=	Z=	X=	Y=	Z=
	TRANSLATION	TRANSLATION	TRANSLATION	ROTATION	ROTATION	ROTATION
1	-1.88373E-11	-9.11271E-13	1.00000E+00	2.50963E-03	6.89453E-04	4.75444E-14
2	-1.17581E-11	-4.04263E-13	6.27487E-01	2.42502E-03	6.89453E-04	4.57741E-14
3	-7.23210E-12	-9.05257E-13	3.88379E-01	2.26281E-03	6.89453E-04	4.23815E-14
4	-2.32856E-15	-8.47755E-13	1.16601E-04	1.66649E-03	6.89453E-04	2.99242E-14
5	0.	0.	0.	0.	0.	0.
6	0.	0.	0.	0.	0.	0.
7	0.	0.	0.	0.	0.	0.
8	0.	0.	0.	0.	0.	0.
9	3.57801E-12	-8.83772E-13	-2.11944E-01	1.06614E-03	6.89453E-04	1.70198E-14
10	0.	0.	0.	0.	0.	0.
11	-3.68812E-02	5.95818E-02	-2.95085E-01	1.05371E-03	6.89137E-04	1.24837E-05
12	4.45406E-12	-1.61043E-12	-2.34691E-01	1.04583E-03	7.08658E-04	1.63735E-14
13	3.68812E-02	-5.95818E-02	-2.95085E-01	1.05371E-03	6.89137E-04	-1.24837E-05
14	-2.47332E-02	6.91773E-02	-3.11812E-01	-1.24977E-04	6.26263E-04	6.19300E-04
15	4.64842E-12	-1.57383E-12	-1.65204E-01	4.87473E-04	1.11630E-03	-7.97662E-15
16	2.47332E-02	-6.91773E-02	-3.11812E-01	-1.24977E-04	6.26263E-04	-6.19300E-04
17	1.60585E-02	6.96583E-02	-2.87382E-01	-5.10161E-04	8.07184E-04	7.23842E-04
18	-1.60585E-02	-6.96583E-02	-2.87382E-01	-5.10161E-04	8.07184E-04	-7.23842E-04
19	7.47883E-03	2.93273E-02	-1.87337E-01	-7.55439E-04	1.28705E-03	-4.31707E-05
20	-7.47883E-03	-2.93273E-02	-1.87337E-01	-7.55439E-04	1.28705E-03	4.31707E-05
21	-1.04920E-02	2.07643E-02	-1.62385E-01	-7.90088E-04	1.30646E-03	-1.19850E-04
22	1.04920E-02	-2.07643E-02	-1.62385E-01	-7.90088E-04	1.30646E-03	1.19850E-04
23	-5.34146E-02	4.99717E-03	-1.73197E-01	-1.90902E-03	1.11484E-03	3.47796E-04
24	5.34146E-02	-4.99717E-03	-1.73197E-01	-1.90902E-03	1.11484E-03	-3.47796E-04
25	-7.82815E-03	-4.82815E-03	-3.11250E-01	-1.97581E-03	1.10816E-03	3.93467E-04
26	7.82815E-03	4.82815E-03	-3.11250E-01	-1.97581E-03	1.10816E-03	-3.93467E-04
27	0.	0.	0.	0.	0.	0.
28	0.	0.	0.	0.	0.	0.
29	-1.34258E-01	-4.84261E-03	-5.45214E-01	-2.16559E-03	1.10816E-03	4.37005E-04
30	1.34258E-01	4.84261E-03	-5.45214E-01	-2.16559E-03	1.10816E-03	-4.37005E-04
31	-6.80593E-02	-5.51867E-04	-2.70678E-01	-1.94296E-03	1.14847E-03	3.94313E-04
32	6.80593E-02	5.51867E-04	-2.70678E-01	-1.94296E-03	1.14847E-03	-3.94313E-04
33	-3.96086E-02	1.84234E-03	-1.68534E-01	-1.13748E-03	1.58173E-03	3.16735E-04
34	4.64328E-12	-7.91910E-13	-8.68412E-02	2.59353E-04	8.19930E-04	-9.12041E-15
35	3.96086E-02	-1.84234E-03	-1.68534E-01	-1.13748E-03	1.58173E-03	-3.16735E-04
36	-1.01762E-02	6.04505E-04	-6.34007E-02	-3.68217E-04	1.23111E-03	1.10908E-04
37	1.01762E-02	-6.04505E-04	-6.34007E-02	-3.68217E-04	1.23111E-03	-1.10908E-04
38	4.11273E-04	1.24728E-05	-4.16947E-02	-3.58619E-06	2.21699E-06	1.79607E-06
39	4.63593E-12	-1.44667E-13	-4.18654E-02	5.61508E-07	7.25648E-06	-1.67765E-15
40	-4.11273E-04	-1.24728E-05	-4.16947E-02	-3.58619E-06	2.21699E-06	-1.79607E-06
41	0.	0.	0.	0.	0.	0.
42	0.	0.	0.	0.	0.	0.
43	0.	0.	0.	0.	0.	0.
44	0.	0.	0.	0.	0.	0.
45	0.	0.	0.	0.	0.	0.
46	0.	0.	0.	0.	0.	0.
47	4.63485E-12	5.19991E-15	-4.20096E-02	-1.44875E-06	1.78786E-14	-1.59923E-15

48	4.4975HE-12	5.22457E-15	-4.31992E-02	2.65816E-06	1.78788E-14	-1.12440E-15
49	4.8415HE-12	5.21212E-15	-4.26936E-02	-3.47035E-06	1.78794E-14	-1.86271E-15
50	5.00128E-12	5.21651E-15	-4.31378E-02	-4.17188E-06	1.78795E-14	-1.95583E-15
51	5.2017HE-12	5.22016E-15	-4.39548E-02	-4.56641E-06	1.78796E-14	-2.00873E-15
52	0.	0.	0.	0.	0.	0.
53	0.	0.	0.	0.	0.	0.
54	0.	0.	0.	0.	0.	0.
55	0.	0.	0.	0.	0.	0.
56	0.	0.	0.	0.	0.	0.
57	0.	0.	0.	0.	0.	0.
58	-4.11273E-04	1.24728E-05	-4.16947E-02	-3.58619E-06	-2.21699E-06	-1.79607E-06
59	4.63491E-12	1.55043E-13	-4.18659E-02	5.61508E-07	-7.25688E-06	-1.68525E-15
60	4.11273E-04	-1.24728E-05	-4.16947E-02	-3.58619E-06	-2.21699E-06	1.79607E-06
61	1.01762E-02	-6.04505E-04	-6.34007E-02	-3.68217E-04	-1.23111E-03	-1.10908E-04
62	-1.01762E-02	6.04505E-04	-6.34007E-02	-3.68217E-04	-1.23111E-03	1.10908E-04
63	3.90086E-02	1.44234E-03	-1.68534E-01	-1.13798E-03	-1.58173E-03	-3.16735E-04
64	4.63287E-12	8.44224E-13	-8.68412E-02	2.99353E-04	-8.19930E-04	-4.82528E-15
65	-3.96086E-02	-1.44234E-03	-1.68534E-01	-1.13798E-03	-1.58173E-03	3.16735E-04
66	6.80543E-02	-5.51867E-04	-2.70678E-01	-1.94296E-03	-1.14847E-03	-3.94313E-04
67	-6.80543E-02	5.51867E-04	-2.70678E-01	-1.94296E-03	-1.14847E-03	3.94313E-04
68	1.34258E-01	-4.84261E-03	-5.85214E-01	-2.16559E-03	-1.10816E-03	-4.37005E-04
69	-1.34258E-01	4.84261E-03	-5.85214E-01	-2.16559E-03	-1.10816E-03	4.37005E-04
70	0.	0.	0.	0.	0.	0.
71	0.	0.	0.	0.	0.	0.
72	7.89447E-02	-4.82815E-03	-3.11250E-01	-1.97581E-03	-1.10816E-03	-3.93467E-04
73	-7.89447E-02	4.82815E-03	-3.11250E-01	-1.97581E-03	-1.10816E-03	3.93467E-04
74	5.38198E-02	-4.99717E-03	-1.73147E-01	-1.90902E-03	-1.11484E-03	-3.47796E-04
75	-5.38198E-02	4.99717E-03	-1.73147E-01	-1.90902E-03	-1.11484E-03	3.47796E-04
76	1.09420E-02	2.07643E-02	-1.62385E-01	-7.30088E-04	-1.30646E-03	1.15850E-04
77	-1.09420E-02	-2.07643E-02	-1.62385E-01	-7.30088E-04	-1.30646E-03	-1.15850E-04
78	7.47883E-03	2.93273E-02	-1.87337E-01	-7.55439E-04	-1.28705E-03	4.31707E-05
79	-7.47883E-03	-2.93273E-02	-1.87337E-01	-7.55439E-04	-1.28705E-03	-4.31707E-05
80	-1.60585E-02	6.96583E-02	-2.87342E-01	-5.10161E-04	-8.07184E-04	-7.23842E-04
81	1.60585E-02	-6.96583E-02	-2.87342E-01	-5.10161E-04	-8.07184E-04	7.23842E-04
82	2.97332E-02	6.91773E-02	-3.11812E-01	-1.29977E-04	-6.26263E-04	-6.19300E-04
83	-2.97332E-02	-6.91773E-02	-3.11812E-01	-1.29977E-04	-6.26263E-04	6.19300E-04
84	3.68812E-02	5.95818E-02	-2.95085E-01	1.05371E-03	-6.89137E-04	-1.24837E-05
85	-3.68812E-02	-5.95818E-02	-2.95085E-01	1.05371E-03	-6.89137E-04	1.24837E-05
86	4.42620E-12	1.75673E-12	-2.34691E-01	1.04583E-03	-7.08658E-04	1.62120E-14
87	0.	0.	0.	0.	0.	0.
88	0.	0.	0.	0.	0.	0.
89	3.55089E-12	1.03454E-12	-2.11949E-01	1.06614E-03	-6.89453E-04	1.68194E-14
90	-2.29344E-15	1.05095E-12	1.16601E-04	1.66664E-03	-6.89453E-04	2.46647E-14
91	0.	0.	0.	0.	0.	0.
92	0.	0.	0.	0.	0.	0.
93	0.	0.	0.	0.	0.	0.
94	0.	0.	0.	0.	0.	0.
95	-7.1696HE-12	1.05475E-12	3.88374E-01	2.26281E-03	-6.89453E-04	4.20161E-14
96	-1.16567E-11	1.06324E-12	6.27447E-01	2.42502E-03	-6.89453E-04	4.53800E-14
97	-1.86750E-11	1.06681E-12	1.00000E+00	2.50963E-03	-6.89453E-04	4.71352E-14

MODAL ANALYSIS

MODE NUMBER 3
FREQUENCY = 6.55734 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X=	Y=	Z=	X=	Y=	Z=
	TRANSLATION	TRANSLATION	TRANSLATION	ROTATION	ROTATION	ROTATION
1	5.86942E-03	2.70298E-04	-2.09267E-13	-5.28445E-16	-1.71504E-16	-1.48247E-05
2	3.66122E-03	2.69410E-04	-1.30550E-13	-5.08621E-16	-1.71504E-16	-1.42662E-05
3	2.25015E-03	2.68523E-04	-8.02446E-14	-4.70534E-16	-1.71504E-16	-1.31960E-05
4	7.40452E-07	2.66308E-04	-2.72934E-17	-3.30700E-16	-1.71504E-16	-4.26664E-06
9	-1.09590E-03	2.62180E-04	3.88994E-14	-1.89765E-16	-1.71504E-16	-5.21690E-06
11	-1.43020E-03	2.20508E-04	-3.56463E-05	2.73054E-07	-9.44492E-08	-5.09226E-06
12	-1.36133E-03	4.82938E-04	4.06425E-14	-1.85706E-16	-1.75066E-16	-5.00399E-06
13	-1.43020E-03	2.20508E-04	3.56463E-05	-2.73054E-07	9.44492E-08	-5.09226E-06
14	-1.42930E-03	3.14063E-04	-3.55325E-04	1.11548E-05	-3.87459E-06	5.17138E-08
15	-1.41277E-03	4.63268E-04	2.36983E-14	-8.38145E-17	-2.35644E-16	2.42496E-06
16	-1.42930E-03	3.14063E-04	3.55325E-04	-1.11548E-05	3.87459E-06	5.17138E-08
17	-1.40584E-03	3.35169E-04	-1.12837E-03	1.10541E-05	-7.78335E-06	-2.06364E-06
18	-1.40584E-03	3.35169E-04	1.12837E-03	-1.10541E-05	7.78335E-06	-2.06364E-06
19	-1.78265E-03	9.60070E-04	-1.66511E-03	-1.63237E-05	1.74162E-06	-1.67639E-05
20	-1.78265E-03	9.60070E-04	1.66511E-03	1.63237E-05	-1.74162E-06	-1.67639E-05
21	-1.80086E-03	1.04783E-03	-1.64020E-03	-2.34582E-05	4.15551E-06	-1.81846E-05
22	-1.80086E-03	1.04783E-03	1.64020E-03	2.34582E-05	-4.15551E-06	-1.81846E-05
23	-2.64808E-03	-1.20415E-04	-4.47978E-03	-8.25532E-05	3.49902E-05	2.53100E-05
24	-2.64808E-03	-1.20415E-04	4.47978E-03	8.25532E-05	-3.49902E-05	2.53100E-05
25	-4.49212E-03	-1.13034E-04	-1.04913E-02	-8.36738E-05	3.67678E-05	2.66850E-05
26	-4.49212E-03	-1.13034E-04	1.04913E-02	8.36738E-05	-3.67678E-05	2.66850E-05
29	-8.25091E-03	-1.13415E-04	-2.20960E-02	-9.17321E-05	3.67678E-05	2.96940E-05
30	-8.25091E-03	-1.13415E-04	2.20960E-02	9.17321E-05	-3.67678E-05	2.96940E-05
31	-4.12383E-03	-2.55462E-04	-4.11631E-03	-8.24261E-05	3.87734E-05	2.61024E-05
32	-4.12383E-03	-2.55462E-04	4.11631E-03	8.24261E-05	-3.87734E-05	2.61024E-05
33	-3.04162E-03	-2.94483E-04	-5.21501E-03	-5.03908E-05	6.26463E-05	1.27944E-05
34	-1.40918E-03	2.28637E-04	7.50457E-15	-4.46560E-17	-1.63329E-16	2.71384E-06
35	-3.04162E-03	-2.94483E-04	5.21501E-03	5.03908E-05	-6.26463E-05	1.27944E-05
36	-1.84139E-03	-1.06659E-04	-4.10951E-04	-1.77865E-05	5.06932E-05	1.48579E-06
37	-1.84139E-03	-1.06659E-04	4.10951E-04	1.77865E-05	-5.06932E-05	1.48579E-06
38	-1.38669E-03	2.38804E-05	2.70380E-07	-1.32246E-07	1.34008E-07	4.30261E-07
39	-1.40408E-03	3.86300E-05	-8.52267E-16	-4.81555E-19	1.54634E-17	4.29188E-07
40	-1.39869E-03	2.38804E-05	-2.70380E-07	1.32246E-07	-1.34008E-07	4.30261E-07
47	-1.40405E-03	-8.71342E-16	4.81144E-16	-1.40592E-19	1.78203E-17	4.03428E-07
48	-1.37930E-03	-8.75435E-16	5.24688E-16	-2.06702E-19	1.77972E-17	2.55961E-07
49	-1.45991E-03	-8.72425E-16	4.87241E-16	-8.90408E-20	1.77964E-17	4.83426E-07
50	-1.50244E-03	-8.72566E-16	4.86351E-16	-6.90309E-20	1.78005E-17	5.11596E-07
51	-1.57670E-03	-8.72758E-16	4.78268E-16	-6.20606E-20	1.77974E-17	5.27548E-07
58	-1.39869E-03	-2.38804E-05	-2.70380E-07	1.32246E-07	1.34008E-07	4.30261E-07
59	-1.40408E-03	-3.86300E-05	1.77414E-15	2.01503E-19	1.55232E-17	4.29188E-07
60	-1.39869E-03	-2.38804E-05	2.70380E-07	-1.32246E-07	-1.34008E-07	4.30261E-07
61	-1.84139E-03	1.06659E-04	4.10951E-04	1.77865E-05	5.06932E-05	1.48579E-06
62	-1.84139E-03	1.06659E-04	-4.10951E-04	-1.77865E-05	-5.06932E-05	1.48579E-06
63	-3.04162E-03	2.94483E-04	5.21501E-03	5.03908E-05	6.26463E-05	1.27944E-05
64	-1.40918E-03	-2.28637E-04	-7.50457E-15	4.42958E-17	-1.64379E-16	2.71384E-06

65	-3.04162E-03	2.94483E-04	-5.21501E-03	-5.03908E-05	-6.26463E-05	1.27944E-05
66	-4.12383E-03	2.55002E-04	9.11631E-03	8.24261E-05	3.87734E-05	2.61024E-05
67	-4.12383E-03	2.55002E-04	-4.11631E-03	-8.24261E-05	-3.87734E-05	2.61024E-05
68	-4.25091E-03	1.13415E-04	2.20960E-02	9.17321E-05	3.67678E-05	2.96940E-05
69	-4.25091E-03	1.13415E-04	-2.20960E-02	-9.17321E-05	-3.67678E-05	2.96940E-05
72	-4.44212E-03	1.13034E-04	1.04913E-02	8.36738E-05	3.67678E-05	2.66850E-05
73	-4.44212E-03	1.13034E-04	-1.04913E-02	-8.36738E-05	-3.67678E-05	2.66850E-05
74	-2.64806E-03	1.23415E-04	4.47978E-03	8.25532E-05	3.49902E-05	2.53100E-05
75	-2.64806E-03	1.23415E-04	-4.47978E-03	-8.25532E-05	-3.49902E-05	2.53100E-05
76	-1.80086E-03	-1.04743E-03	1.64020E-03	2.34582E-05	4.15551E-06	-1.81846E-05
77	-1.80086E-03	-1.04743E-03	-1.64020E-03	-2.34582E-05	-4.15551E-06	-1.81846E-05
78	-1.78265E-03	-9.60070E-04	1.66511E-03	1.63237E-05	1.74162E-06	-1.67639E-05
79	-1.78265E-03	-9.60070E-04	-1.66511E-03	-1.63237E-05	-1.74162E-06	-1.67639E-05
80	-1.40584E-03	-3.35169E-04	1.12837E-03	-1.10541E-05	-7.78335E-06	-2.06364E-06
81	-1.40584E-03	-3.35169E-04	-1.12837E-03	1.10541E-05	7.78335E-06	-2.06364E-06
82	-1.42930E-03	-3.14663E-04	3.55325E-04	-1.11548E-05	-3.87459E-06	5.17138E-06
83	-1.41277E-03	-4.63258E-04	-2.27448E-04	8.31723E-07	-2.43459E-06	2.42496E-06
84	-1.42930E-03	-3.14663E-04	-3.55325E-04	1.11548E-05	3.87459E-06	5.17138E-06
85	-1.43020E-03	-2.20508E-04	3.56463E-05	-2.73054E-07	-9.44492E-08	-5.09226E-06
86	-1.43020E-03	-2.20508E-04	-3.56463E-05	2.73054E-07	9.44492E-08	-5.09226E-06
87	-1.36133E-03	-4.82938E-04	-4.05559E-04	1.85891E-06	-1.41200E-06	-5.00399E-06
89	-1.04590E-03	-2.62180E-04	-3.91111E-04	1.90091E-06	-1.77396E-06	-5.21690E-06
90	7.40452E-07	-2.66308E-04	2.75450E-07	3.33224E-06	-1.77396E-06	-4.26664E-06
95	2.25015E-03	-2.68523E-04	8.09735E-04	4.74914E-06	-1.77396E-06	-1.31960E-05
96	3.66122E-03	-2.67410E-04	1.31767E-03	5.13508E-06	-1.77396E-06	-1.42662E-05
97	5.86942E-03	-2.70298E-04	2.11261E-03	5.33647E-06	-1.77396E-06	-1.48247E-05

MODE NUMBER 3
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	2.05033E-01	1.22329E-02	-9.47081E-12	-2.39182E-14	-7.76178E-15	-6.70923E-04
2	1.05097E-01	1.21427E-02	-5.90851E-12	-2.30187E-14	-7.76178E-15	-6.45648E-04
3	1.01835E-01	1.21526E-02	-3.03104E-12	-2.12950E-14	-7.76178E-15	-5.97211E-04
4	3.35108E-05	1.20524E-02	-1.23522E-15	-1.49065E-14	-7.76178E-15	-4.19382E-04
5	0.	0.	0.	0.	0.	0.
6	0.	0.	0.	0.	0.	0.
7	0.	0.	0.	0.	0.	0.
8	0.	0.	0.	0.	0.	0.
9	-0.495975E-02	1.18655E-02	1.76047E-12	-8.58825E-15	-7.76178E-15	-2.36102E-04
10	0.	0.	0.	0.	0.	0.
11	-0.47269E-02	9.97955E-03	-1.01325E-03	1.23577E-05	-4.27450E-06	-2.30461E-04
12	-0.16101E-02	2.18504E-02	1.83936E-12	-8.40451E-15	-7.92298E-15	-2.26466E-04
13	-0.47269E-02	9.97955E-03	1.01325E-03	-1.23577E-05	4.27450E-06	-2.30461E-04
14	-0.40862E-02	1.42407E-02	-1.00810E-02	5.00833E-04	-1.75353E-04	2.34042E-06
15	-0.39382E-02	2.07662E-02	1.07252E-12	-3.79321E-15	-1.06646E-14	1.09747E-04
16	-0.40862E-02	1.42407E-02	1.00810E-02	-5.00833E-04	1.75353E-04	2.34042E-06
17	-0.30245E-02	1.51688E-02	-5.10667E-02	5.00279E-04	-3.52252E-04	-4.33943E-05
18	-0.30245E-02	1.51688E-02	5.10667E-02	-5.00279E-04	3.52252E-04	-4.33943E-05
19	-0.06775E-02	4.34500E-02	-7.53583E-02	7.38763E-04	-7.88208E-05	-7.58685E-04
20	-0.06775E-02	4.34500E-02	7.53583E-02	-7.38763E-04	7.88208E-05	-7.58685E-04
21	-0.15018E-02	4.74216E-02	-7.42309E-02	-1.06165E-03	1.88066E-04	-0.22982E-04
22	-0.15018E-02	4.74216E-02	7.42309E-02	1.06165E-03	-1.88066E-04	-0.22982E-04
23	-1.19844E-01	-5.44965E-03	-2.02742E-01	3.73612E-03	-1.58356E-03	1.14546E-03
24	-1.19844E-01	-5.44965E-03	2.02742E-01	-3.73612E-03	1.58356E-03	1.14546E-03
25	-2.03301E-01	-5.11559E-03	-4.74805E-01	-3.78684E-03	1.66400E-03	1.20769E-03
26	-2.03301E-01	-5.11559E-03	4.74805E-01	3.78684E-03	-1.66400E-03	1.20769E-03
27	0.	0.	0.	0.	0.	0.
28	0.	0.	0.	0.	0.	0.
29	-3.73413E-01	-5.13283E-03	-1.00000E+00	-4.15154E-03	1.66400E-03	1.34387E-03
30	-3.73413E-01	-5.13283E-03	1.00000E+00	4.15154E-03	-1.66400E-03	1.34387E-03
31	-1.40633E-01	-1.15615E-02	-4.12578E-01	-3.73037E-03	1.75477E-03	1.18132E-03
32	-1.40633E-01	-1.15615E-02	4.12578E-01	3.73037E-03	-1.75477E-03	1.18132E-03
33	-1.37655E-01	-1.33274E-02	-2.36017E-01	-2.28054E-03	2.83519E-03	5.79040E-04
34	-0.37754E-02	1.03475E-02	3.39636E-13	-2.02100E-15	-7.39181E-15	1.22821E-04
35	-1.37655E-01	-1.33274E-02	2.36017E-01	2.28054E-03	-2.83519E-03	5.79040E-04
36	-0.33361E-02	-4.82710E-03	-4.12271E-02	-8.04964E-04	2.29423E-03	6.72428E-05
37	-0.33361E-02	-4.82710E-03	4.12271E-02	8.04964E-04	-2.29423E-03	6.72428E-05
38	-0.33008E-02	1.08076E-03	1.22366E-05	-5.98509E-06	6.06483E-06	1.94724E-05
39	-0.35719E-02	1.74829E-03	-3.45712E-14	-2.17938E-17	6.49824E-16	1.94238E-05
40	-0.33008E-02	1.08076E-03	-1.22366E-05	5.98509E-06	-6.06483E-06	1.94724E-05
41	0.	0.	0.	0.	0.	0.
42	0.	0.	0.	0.	0.	0.
43	0.	0.	0.	0.	0.	0.
44	0.	0.	0.	0.	0.	0.
45	0.	0.	0.	0.	0.	0.
46	0.	0.	0.	0.	0.	0.
47	-0.45434E-02	-3.91503E-14	2.17777E-14	-0.36261E-18	8.06496E-16	1.82580E-05

48	-6.24230E-02	-3.92242E-14	2.39269E-14	-9.35475E-18	8.05449E-16	1.15841E-05
49	-6.60713E-02	-3.94835E-14	2.20511E-14	-3.62242E-18	8.05413E-16	2.18785E-05
50	-6.79964E-02	-3.94899E-14	2.20109E-14	-3.12414E-18	8.05600E-16	2.31534E-05
51	-7.13570E-02	-3.94985E-14	2.16451E-14	-2.80869E-18	8.05460E-16	2.38753E-05
52	0.	0.	0.	0.	0.	0.
53	0.	0.	0.	0.	0.	0.
54	0.	0.	0.	0.	0.	0.
55	0.	0.	0.	0.	0.	0.
56	0.	0.	0.	0.	0.	0.
57	0.	0.	0.	0.	0.	0.
58	-6.33008E-02	-1.08076E-03	-1.22366E-05	5.98509E-06	6.06483E-06	1.94724E-05
59	-6.35719E-02	-1.74827E-03	8.02926E-14	9.11942E-18	7.02538E-16	1.94238E-05
60	-6.33008E-02	-1.08076E-03	1.22366E-05	-5.98509E-06	-6.06483E-06	1.94724E-05
61	-8.33361E-02	4.82710E-03	4.12271E-02	8.04964E-04	2.29423E-03	6.72428E-05
62	-8.33361E-02	4.82710E-03	-4.12271E-02	-8.04964E-04	-2.29423E-03	6.72428E-05
63	-1.37655E-01	1.33274E-02	2.36017E-01	2.28054E-03	2.83519E-03	5.79040E-04
64	-6.37754E-02	-1.03475E-02	-2.90615E-13	2.00470E-15	-7.43932E-15	1.22821E-04
65	-1.37655E-01	1.33274E-02	-2.36017E-01	-2.28054E-03	-2.83519E-03	5.79040E-04
66	-1.86633E-01	1.15615E-02	4.12578E-01	3.73037E-03	1.79477E-03	1.18132E-03
67	-1.86633E-01	1.15615E-02	-4.12578E-01	-3.73037E-03	-1.79477E-03	1.18132E-03
68	-3.73413E-01	5.13283E-03	1.00000E+00	4.15154E-03	1.66400E-03	1.34387E-03
69	-3.73413E-01	5.13283E-03	-1.00000E+00	-4.15154E-03	-1.66400E-03	1.34387E-03
70	0.	0.	0.	0.	0.	0.
71	0.	0.	0.	0.	0.	0.
72	-2.03301E-01	5.11559E-03	4.74805E-01	3.78684E-03	1.66400E-03	1.20769E-03
73	-2.03301E-01	5.11559E-03	-4.74805E-01	-3.78684E-03	-1.66400E-03	1.20769E-03
74	-1.19844E-01	5.44965E-03	2.02742E-01	3.73612E-03	1.58356E-03	1.14546E-03
75	-1.19844E-01	5.44965E-03	-2.02742E-01	-3.73612E-03	-1.58356E-03	1.14546E-03
76	-8.15018E-02	-4.74216E-02	7.42309E-02	-1.06165E-03	1.88066E-04	-8.22982E-04
77	-8.15018E-02	-4.74216E-02	-7.42309E-02	1.06165E-03	-1.88066E-04	-8.22982E-04
78	-8.06775E-02	-4.34500E-02	7.53583E-02	7.38763E-04	7.88208E-05	-7.58685E-04
79	-8.06775E-02	-4.34500E-02	-7.53583E-02	-7.38763E-04	-7.88208E-05	-7.58685E-04
80	-6.36245E-02	-1.51648E-02	5.10667E-02	-5.00279E-04	-3.52252E-04	-4.33943E-05
81	-6.36245E-02	-1.51648E-02	-5.10667E-02	5.00279E-04	3.52252E-04	-4.33943E-05
82	-6.46862E-02	-1.42407E-02	1.60810E-02	-5.04833E-04	-1.75353E-04	2.34042E-06
83	-6.39382E-02	-2.09682E-02	-1.02959E-12	3.76414E-15	-1.10183E-14	1.09747E-04
84	-6.46862E-02	-1.42407E-02	-1.60810E-02	5.04833E-04	1.75353E-04	2.34042E-06
85	-6.47269E-02	-9.97955E-03	1.61325E-03	-1.23577E-05	-4.27450E-06	-2.30461E-04
86	-6.47269E-02	-9.97955E-03	-1.61325E-03	1.23577E-05	4.27450E-06	-2.30461E-04
87	-6.16101E-02	-2.18564E-02	-1.83544E-12	8.41291E-15	-8.20062E-15	-2.26466E-04
88	0.	0.	0.	0.	0.	0.
89	-4.95975E-02	-1.18655E-02	-1.77006E-12	8.60115E-15	-8.02845E-15	-2.36102E-04
90	3.35108E-05	-1.29524E-02	1.24603E-15	1.50808E-14	-8.02845E-15	-4.19382E-04
91	0.	0.	0.	0.	0.	0.
92	0.	0.	0.	0.	0.	0.
93	0.	0.	0.	0.	0.	0.
94	0.	0.	0.	0.	0.	0.
95	1.01835E-01	-1.21526E-02	3.66403E-12	2.14933E-14	-8.02845E-15	-5.97211E-04
96	1.65647E-01	-1.21927E-02	5.96341E-12	2.32394E-14	-8.02845E-15	-6.45648E-04
97	2.65633E-01	-1.22329E-02	9.56197E-12	2.41514E-14	-8.02845E-15	-6.70923E-04

MODAL ANALYSIS

MODE NUMBER 4
FREQUENCY = 6.57117 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

MODE NUMBER	X- TRANSLATION	Y- TRANSLATION	Z- TRANSLATION	X- ROTATION	Y- ROTATION	Z- ROTATION
1	1.99012E-04	-2.95045E-04	3.69234E-10	9.33815E-13	3.35061E-13	-5.02711E-07
2	1.24121E-04	-2.94072E-04	2.30039E-10	8.97881E-13	3.35061E-13	-4.83695E-07
3	7.62726E-05	-2.93009E-04	1.41173E-10	8.29023E-13	3.35061E-13	-4.47254E-07
4	5.25225E-04	-2.90672E-04	4.91565E-14	5.76270E-13	3.35061E-13	-3.13466E-07
9	-2.91969E-05	-2.86147E-04	-6.64954E-11	3.20945E-13	3.35061E-13	-2.67927E-07
11	-6.21236E-05	-3.26654E-04	4.00014E-05	-3.06021E-07	7.07605E-08	-2.97214E-07
12	-3.00000E-05	-2.80578E-04	-6.73484E-11	3.14220E-13	3.41487E-13	-2.25409E-07
13	-6.21235E-05	-3.26654E-04	-4.00016E-05	3.06022E-07	-7.07598E-08	-2.97214E-07
14	-1.06794E-04	-4.42919E-04	4.20002E-04	-1.33325E-05	2.03956E-06	1.06662E-06
15	-2.54071E-05	-2.17992E-04	-3.43370E-11	1.51437E-13	4.46124E-13	-1.37512E-06
16	-1.06794E-04	-4.42919E-04	-4.20002E-04	1.33325E-05	-2.03956E-06	1.06662E-06
17	2.61152E-05	-4.61495E-04	-1.34932E-03	-1.32584E-05	5.52729E-06	4.96361E-06
18	2.61152E-05	-4.61495E-04	-1.34932E-03	1.32584E-05	-5.52729E-06	4.96361E-06
19	7.14722E-04	-1.15365E-03	1.76940E-03	1.96208E-05	-5.43554E-06	1.74823E-05
20	7.14722E-04	-1.15365E-03	-1.76940E-03	-1.96208E-05	5.43554E-06	1.74823E-05
21	7.88671E-04	-1.19724E-03	1.67556E-03	-2.73899E-05	7.87374E-06	1.87230E-05
22	7.88671E-04	-1.19724E-03	-1.67556E-03	2.73899E-05	-7.87374E-06	1.87230E-05
23	1.72012E-03	1.61793E-04	4.70475E-03	8.81082E-05	-3.74750E-05	-2.16580E-05
24	1.72012E-03	1.61793E-04	-4.70475E-03	-8.81082E-05	3.74750E-05	-2.16580E-05
25	3.30066E-03	1.55150E-04	1.11188E-02	-8.91091E-05	-3.92180E-05	-2.26813E-05
26	3.30066E-03	1.55150E-04	-1.11188E-02	8.91091E-05	3.92180E-05	-2.26813E-05
29	6.47076E-03	1.55675E-04	2.34745E-02	9.77081E-05	-3.92180E-05	-2.50511E-05
30	6.47076E-03	1.55675E-04	-2.34745E-02	-9.77081E-05	3.92180E-05	-2.50511E-05
31	2.90854E-03	1.22140E-04	9.65430E-03	-8.76936E-05	-4.13060E-05	-2.24242E-05
32	2.90854E-03	1.22140E-04	-9.65430E-03	8.76936E-05	4.13060E-05	-2.24242E-05
33	1.76691E-03	9.01159E-05	5.53209E-03	5.23205E-05	-6.60414E-05	-1.40905E-05
34	-1.42962E-05	-9.81365E-05	-3.60435E-12	9.27951E-14	3.19393E-13	-1.31087E-06
35	1.76691E-03	9.01159E-05	-5.53209E-03	-5.23205E-05	6.60414E-05	-1.40905E-05
36	5.04369E-04	6.75525E-05	1.00322E-03	1.75702E-05	-5.33423E-05	-3.45500E-06
37	5.04369E-04	6.75525E-05	-1.00322E-03	-1.75702E-05	5.33423E-05	-3.45500E-06
38	3.92391E-05	-1.15147E-05	4.47520E-05	1.16103E-07	-2.92252E-07	-5.85057E-08
39	-1.68497E-06	-1.50804E-05	1.35732E-11	2.66940E-14	2.36890E-15	-1.50276E-08
40	3.92391E-05	-1.15147E-05	-4.47520E-05	-1.16103E-07	2.92252E-07	-5.85057E-08
47	1.97749E-13	-1.44152E-05	1.44781E-11	2.61790E-14	-2.75452E-15	-5.12968E-17
48	1.95406E-13	-1.44439E-05	9.83617E-12	2.51034E-14	-2.75452E-15	-3.02944E-17
49	2.05156E-13	-1.44492E-05	1.69586E-11	2.72628E-14	-2.75453E-15	-6.25671E-17
50	2.10749E-13	-1.44612E-05	1.90285E-11	2.76681E-14	-2.75453E-15	-6.65300E-17
51	2.20477E-13	-1.44706E-05	2.27801E-11	2.79038E-14	-2.75453E-15	-6.87724E-17
58	-3.92341E-05	-1.15147E-05	4.47520E-05	1.16103E-07	2.92252E-07	5.85057E-08
59	1.68497E-06	-1.50804E-05	1.31127E-11	2.66940E-14	-2.36890E-15	1.50276E-08
60	-3.92391E-05	-1.15147E-05	-4.47520E-05	-1.16103E-07	-2.92252E-07	5.85057E-08
61	-5.04369E-04	6.75525E-05	1.00322E-03	1.75702E-05	5.33423E-05	3.45500E-06
62	-5.04369E-04	6.75525E-05	-1.00322E-03	-1.75702E-05	-5.33423E-05	3.45500E-06
63	-1.76691E-03	9.01159E-05	5.53209E-03	5.23205E-05	6.60414E-05	1.40905E-05
64	1.42962E-05	9.81365E-05	-3.60502E-12	-9.27951E-14	-3.19393E-13	1.31087E-06

65	-1.76601E-03	9.01159E-05	-5.53209E-03	-5.23205E-05	-6.60414E-05	1.40905E-05
66	-2.90854E-03	1.22140E-04	9.65430E-03	8.76936E-05	4.13060E-05	2.24242E-05
67	-2.90854E-03	1.22140E-04	-9.65430E-03	-8.76936E-05	-4.13060E-05	2.24242E-05
68	-6.47076E-03	1.55675E-04	2.34745E-02	9.77081E-05	3.92180E-05	2.50511E-05
69	-6.47076E-03	1.55675E-04	-2.34745E-02	-9.77081E-05	-3.92180E-05	2.50511E-05
72	-3.30066E-03	1.55150E-04	1.11188E-02	8.91091E-05	3.92180E-05	2.26813E-05
73	-3.30066E-03	1.55150E-04	-1.11188E-02	-8.91091E-05	-3.92180E-05	2.26813E-05
74	-1.72012E-03	1.61793E-04	4.70475E-03	8.81082E-05	3.74750E-05	2.16580E-05
75	-1.72012E-03	1.61793E-04	-4.70475E-03	-8.81082E-05	-3.74750E-05	2.16580E-05
76	-7.88671E-04	-1.19724E-03	1.67550E-03	2.73899E-05	7.87374E-06	-1.87230E-05
77	-7.88671E-04	-1.19724E-03	-1.67550E-03	-2.73899E-05	-7.87374E-06	-1.87230E-05
78	-7.14722E-04	-1.15365E-03	1.76980E-03	1.96208E-05	5.43554E-06	-1.74823E-05
79	-7.14722E-04	-1.15365E-03	-1.76980E-03	-1.96208E-05	-5.43554E-06	-1.74823E-05
80	-2.61152E-05	-4.61495E-04	1.34932E-03	-1.32584E-05	-5.52729E-06	-4.96361E-06
81	-2.61152E-05	-4.61495E-04	-1.34932E-03	1.32584E-05	5.52729E-06	-4.96361E-06
82	1.06794E-04	-4.42919E-04	4.20002E-04	-1.33325E-05	-2.03956E-06	-1.06662E-06
83	2.54091E-05	-2.17972E-04	-3.15942E-11	1.40737E-13	-4.13640E-13	1.57512E-06
84	1.06794E-04	-4.42914E-04	-4.20002E-04	1.33325E-05	2.03956E-06	-1.06662E-06
85	6.21236E-05	-3.26658E-04	4.00014E-05	-3.06021E-07	-7.07604E-08	2.97214E-07
86	6.21235E-05	-3.26658E-04	-4.00010E-05	3.06022E-07	7.07598E-08	2.97214E-07
87	3.00000E-05	-2.86147E-04	-6.21328E-11	2.90060E-13	-3.15905E-13	2.25409E-07
89	2.91469E-05	-2.86147E-04	-6.13730E-11	2.96263E-13	-3.09970E-13	2.67927E-07
90	-5.25225E-08	-2.93672E-04	4.53524E-14	5.31806E-13	-3.09970E-13	3.13466E-07
95	-7.62726E-05	-2.93672E-04	1.30273E-10	7.65007E-13	-3.09970E-13	4.47254E-07
96	-1.24121E-04	-2.94072E-04	2.12276E-10	8.28534E-13	-3.09470E-13	4.83695E-07
97	-1.99012E-04	-2.95045E-04	3.40720E-10	8.61693E-13	-3.09970E-13	5.02711E-07

AL ANALYSIS

MODE NUMBER 4
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	4.47548E-03	-1.25601E-02	1.57258E-08	3.97714E-11	1.42704E-11	-2.14106E-05
2	5.29634E-03	-1.25246E-02	9.79744E-09	3.82410E-11	1.42704E-11	-2.06007E-05
3	3.24847E-03	-1.24832E-02	6.01294E-09	3.53083E-11	1.42704E-11	-1.90487E-05
4	2.23695E-06	-1.23708E-02	2.09354E-12	2.45435E-11	1.42704E-11	-1.33506E-05
5	0.	0.	0.	0.	0.	0.
6	0.	0.	0.	0.	0.	0.
7	0.	0.	0.	0.	0.	0.
8	0.	0.	0.	0.	0.	0.
9	-1.24351E-03	-1.21471E-02	-2.83208E-09	1.36709E-11	1.42704E-11	-1.14111E-05
10	0.	0.	0.	0.	0.	0.
11	-2.64586E-03	-1.39125E-02	1.70367E-03	-1.30335E-05	3.01371E-06	-1.26584E-05
12	-1.27771E-03	-1.19499E-02	-2.86839E-09	1.33827E-11	1.45440E-11	-4.60024E-06
13	-2.64546E-03	-1.39125E-02	-1.70368E-03	1.30336E-05	-3.01368E-06	-1.26584E-05
14	-4.54840E-03	-1.88640E-02	1.79880E-02	-5.67835E-04	8.68654E-05	4.54275E-05
15	-1.08218E-03	-9.28432E-03	-1.46242E-09	6.44973E-12	1.90005E-11	-5.85647E-05
16	-4.54840E-03	-1.88640E-02	-1.78880E-02	5.67835E-04	-8.68654E-05	4.54274E-05
17	1.11225E-03	-1.96552E-02	5.74681E-02	-5.64681E-04	2.35409E-04	2.11402E-04
18	1.11225E-03	-1.96552E-02	-5.74681E-02	5.64681E-04	-2.35409E-04	2.11402E-04
19	3.04402E-02	-4.91343E-02	7.53761E-02	8.35654E-04	-2.31501E-04	7.44575E-04
20	3.04402E-02	-4.91343E-02	-7.53761E-02	-8.35654E-04	2.31501E-04	7.44575E-04
21	3.35897E-02	-5.09909E-02	7.13626E-02	1.16654E-03	-3.35345E-04	7.97417E-04
22	3.35897E-02	-5.09909E-02	-7.13626E-02	-1.16654E-03	3.35345E-04	7.97417E-04
23	7.32604E-02	6.89074E-03	2.00377E-01	3.75255E-03	-1.59607E-03	-4.22422E-04
24	7.32604E-02	6.89074E-03	-2.00377E-01	-3.75255E-03	1.59607E-03	-4.22422E-04
25	1.40576E-01	6.60787E-03	4.73551E-01	3.79518E-03	-1.67031E-03	-4.66002E-04
26	1.40576E-01	6.60787E-03	-4.73551E-01	-3.79518E-03	1.67031E-03	-4.66002E-04
27	0.	0.	0.	0.	0.	0.
28	0.	0.	0.	0.	0.	0.
29	2.75591E-01	6.63022E-03	1.00000E+00	4.16142E-03	-1.67031E-03	-1.06693E-03
30	2.75591E-01	6.63022E-03	-1.00000E+00	-4.16142E-03	1.67031E-03	-1.06693E-03
31	1.23875E-01	5.20198E-03	4.11174E-01	3.73489E-03	-1.75923E-03	-4.55052E-04
32	1.23875E-01	5.20198E-03	-4.11174E-01	-3.73489E-03	1.75923E-03	-4.55052E-04
33	7.52151E-02	3.83806E-03	2.35613E-01	2.22834E-03	-2.81272E-03	-6.00117E-04
34	-6.04881E-04	-4.17406E-03	-1.53510E-10	3.96069E-12	1.36030E-11	-5.58304E-05
35	7.52151E-02	3.83806E-03	-2.35613E-01	-2.22834E-03	2.81272E-03	-6.00117E-04
36	2.14812E-02	2.87708E-03	4.27274E-02	7.48319E-04	-2.27186E-03	-1.47150E-04
37	2.14812E-02	2.87708E-03	-4.27274E-02	-7.48319E-04	2.27186E-03	-1.47149E-04
38	1.67121E-03	-4.94016E-04	1.90600E-03	4.94488E-06	-1.24471E-05	-2.49177E-06
39	-7.17632E-05	-6.42549E-04	5.78088E-10	1.13690E-12	1.00892E-13	-6.40028E-07
40	1.67121E-03	-4.94016E-04	-1.90600E-03	-4.94488E-06	1.24471E-05	-2.49177E-06
41	0.	0.	0.	0.	0.	0.
42	0.	0.	0.	0.	0.	0.
43	0.	0.	0.	0.	0.	0.
44	0.	0.	0.	0.	0.	0.
45	0.	0.	0.	0.	0.	0.
46	0.	0.	0.	0.	0.	0.
47	8.42216E-12	-6.13947E-04	6.16628E-10	1.11447E-12	-1.17316E-13	-2.18474E-15

48	8.32238E-12	-6.16872E-04	4.18925E-10	1.06916E-12	-1.17316E-13	-1.29025E-15
49	8.73765E-12	-6.15394E-04	7.22271E-10	1.16113E-12	-1.17316E-13	-2.66475E-15
50	8.97587E-12	-6.15906E-04	8.10428E-10	1.17839E-12	-1.17316E-13	-2.83353E-15
51	9.39016E-12	-6.16308E-04	9.70204E-10	1.18843E-12	-1.17316E-13	-2.92904E-15
52	0.	0.	0.	0.	0.	0.
53	0.	0.	0.	0.	0.	0.
54	0.	0.	0.	0.	0.	0.
55	0.	0.	0.	0.	0.	0.
56	0.	0.	0.	0.	0.	0.
57	0.	0.	0.	0.	0.	0.
58	-1.67121E-03	-4.90010E-04	1.90600E-03	4.94888E-06	1.24471E-05	2.49177E-06
59	7.17632E-05	-6.42549E-04	5.58475E-10	1.13503E-12	-3.19698E-13	6.40028E-07
60	-1.67121E-03	-4.90010E-04	-1.90600E-03	-4.94888E-06	-1.24471E-05	2.49177E-06
61	-2.14812E-02	2.87708E-03	4.27274E-02	7.48319E-04	2.27186E-03	1.47150E-04
62	-2.14812E-02	2.87708E-03	-4.27274E-02	-7.48319E-04	-2.27186E-03	1.47149E-04
63	-7.52151E-02	3.83806E-03	2.35613E-01	2.22834E-03	2.81272E-03	6.00117E-04
64	6.08881E-04	-4.17966E-03	-1.30540E-10	3.71757E-12	-1.26879E-11	5.58304E-05
65	-7.52151E-02	3.83806E-03	-2.35613E-01	-2.22834E-03	-2.81272E-03	6.00117E-04
66	-1.23875E-01	5.20198E-03	4.11179E-01	3.73489E-03	1.75923E-03	4.55052E-04
67	-1.23875E-01	5.20197E-03	-4.11179E-01	-3.73489E-03	-1.75923E-03	4.55052E-04
68	-2.75541E-01	6.63022E-03	1.00000E+00	4.16142E-03	1.67031E-03	1.06693E-03
69	-2.75541E-01	6.63022E-03	-1.00000E+00	-4.16142E-03	-1.67031E-03	1.06693E-03
70	0.	0.	0.	0.	0.	0.
71	0.	0.	0.	0.	0.	0.
72	-1.40576E-01	6.60787E-03	4.73551E-01	3.79518E-03	1.67031E-03	4.66002E-04
73	-1.40576E-01	6.60787E-03	-4.73551E-01	-3.79518E-03	-1.67031E-03	4.66002E-04
74	-7.32604E-02	6.89079E-03	2.00377E-01	3.79255E-03	1.59607E-03	4.22422E-04
75	-7.32604E-02	6.89079E-03	-2.00377E-01	-3.79255E-03	-1.59607E-03	4.22422E-04
76	-3.35847E-02	-5.09909E-02	7.13626E-02	1.16854E-03	3.35345E-04	-7.97417E-04
77	-3.35847E-02	-5.09909E-02	-7.13626E-02	-1.16854E-03	-3.35345E-04	-7.97417E-04
78	-3.04402E-02	-4.91343E-02	7.53761E-02	8.35654E-04	2.31501E-04	-7.44575E-04
79	-3.04402E-02	-4.91343E-02	-7.53761E-02	-8.35654E-04	-2.31501E-04	-7.44575E-04
80	-1.11225E-03	-1.96552E-02	5.74681E-02	-5.64681E-04	-2.35409E-04	-2.11402E-04
81	-1.11225E-03	-1.96552E-02	-5.74681E-02	5.64681E-04	2.35409E-04	-2.11402E-04
82	4.54840E-03	-1.88640E-02	1.78880E-02	-5.67835E-04	-8.68654E-05	-4.54275E-05
83	1.08218E-03	-9.28432E-03	-1.34560E-04	5.99403E-12	-1.76170E-11	5.85667E-05
84	4.54840E-03	-1.88640E-02	-1.78880E-02	5.67835E-04	8.68654E-05	-4.54274E-05
85	2.64586E-03	-1.30125E-02	1.70367E-03	-1.30335E-05	-3.01371E-06	1.26584E-05
86	2.64586E-03	-1.30125E-02	-1.70367E-03	1.30336E-05	3.01368E-06	1.26584E-05
87	1.27771E-03	-1.19494E-02	-2.64626E-04	1.23538E-11	-1.34545E-11	4.60024E-06
88	0.	0.	0.	0.	0.	0.
89	1.24351E-03	-1.21871E-02	-2.61389E-04	1.26179E-11	-1.32017E-11	1.14111E-05
90	-2.23695E-06	-1.23708E-02	1.43157E-12	2.26498E-11	-1.32017E-11	1.33506E-05
91	0.	0.	0.	0.	0.	0.
92	0.	0.	0.	0.	0.	0.
93	0.	0.	0.	0.	0.	0.
94	0.	0.	0.	0.	0.	0.
95	-3.24847E-03	-1.24832E-02	5.54836E-09	3.25819E-11	-1.32017E-11	1.40487E-05
96	-5.28834E-03	-1.25246E-02	9.04089E-09	3.52877E-11	-1.32017E-11	2.06007E-05
97	-8.47598E-03	-1.25661E-02	1.45114E-08	3.66998E-11	-1.32017E-11	2.14106E-05

J A L A N A L Y S I S

MODE NUMBER 5
FREQUENCY 6.63198 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X=	Y=	Z=	X=	Y=	Z=
TRANSLATION	TRANSLATION	TRANSLATION	ROTATION	ROTATION	ROTATION	
1	1.42139E-13	-5.70972E-15	-1.53876E-02	-3.89154E-05	-1.39812E-05	-3.59474E-16
2	8.85561E-14	-5.67054E-15	-4.58674E-03	-3.74185E-05	-1.39812E-05	-3.45642E-16
3	5.43468E-14	-5.67139E-15	-5.88331E-03	-3.45490E-05	-1.39812E-05	-3.19139E-16
4	1.46773E-17	-5.62356E-15	-2.04443E-06	-2.40162E-05	-1.39812E-05	-2.21853E-16
9	-2.53879E-14	-5.53444E-15	2.77136E-03	-1.33778E-05	-1.39812E-05	-1.26151E-16
11	7.74287E-04	-7.06753E-04	3.84850E-03	-1.28752E-05	-1.40447E-05	-1.50447E-07
12	-3.11867E-14	-4.9768E-16	2.89624E-03	-1.30967E-05	-1.42492E-05	-1.19130E-16
13	7.74287E-04	7.06753E-04	3.84850E-03	-1.28752E-05	-1.40447E-05	1.50447E-07
14	7.49032E-04	-6.94506E-04	3.64520E-03	1.68111E-05	-1.49866E-05	-1.14331E-05
15	-3.17437E-14	1.06020E-15	1.42878E-03	-6.33233E-06	-1.46347E-05	1.58869E-18
16	-7.40032E-04	6.94506E-04	3.64520E-03	1.68111E-05	-1.45866E-05	1.14331E-05
17	-1.60966E-04	-6.84219E-04	2.27924E-03	1.6051E-05	-2.02014E-05	-1.77380E-05
18	1.60966E-04	6.84219E-04	2.27924E-03	2.16051E-05	-2.02014E-05	1.77380E-05
19	-9.17185E-04	7.69432E-04	3.77223E-04	-1.25197E-05	-1.29548E-05	-2.20076E-05
20	9.17185E-04	-7.69432E-04	3.77223E-04	-1.25197E-05	-1.29548E-05	2.20076E-05
21	-7.28331E-04	9.80333E-04	1.16439E-04	-2.08433E-05	-1.04231E-05	-2.22964E-05
22	7.28331E-04	-9.80333E-04	1.16439E-04	-2.08433E-05	-1.04231E-05	2.22964E-05
23	-1.05078E-03	-1.43667E-04	-3.33510E-03	-7.62168E-05	2.49495E-05	1.90003E-05
24	1.05078E-03	1.43667E-04	-3.33510E-03	-7.62168E-05	2.49495E-05	-1.90003E-05
25	-2.44382E-03	-1.38103E-04	-8.89442E-03	-7.65172E-05	2.69650E-05	1.95582E-05
26	2.44382E-03	1.38103E-04	-8.89442E-03	-7.65172E-05	2.69650E-05	-1.95582E-05
29	-5.16185E-03	-1.38579E-04	-1.94942E-02	-8.37886E-05	2.69650E-05	2.14836E-05
30	5.16185E-03	1.38579E-04	-1.94942E-02	-8.37886E-05	2.69650E-05	-2.14836E-05
31	-2.17125E-03	-1.14321E-04	-7.87641E-03	-7.53058E-05	2.86744E-05	1.93762E-05
32	2.17125E-03	1.14321E-04	-7.87641E-03	-7.53058E-05	2.86744E-05	-1.93762E-05
33	-1.32855E-03	-1.20494E-04	-4.83190E-03	-4.51544E-05	0.95960E-05	1.27732E-05
34	-3.12040E-14	5.71312E-16	1.44332E-04	-3.40738E-06	-1.33790E-05	6.84461E-18
35	1.32855E-03	1.20494E-04	-4.83190E-03	-4.51544E-05	0.95960E-05	-1.27732E-05
36	-3.68534E-04	-1.47123E-04	-1.38123E-03	-1.56937E-05	4.07332E-05	3.63161E-06
37	3.68534E-04	1.47123E-04	-1.38123E-03	-1.56937E-05	4.07332E-05	-3.63161E-06
38	-1.12576E-05	-7.94129E-05	-6.43672E-04	-1.18164E-06	1.61435E-07	1.03391E-07
39	-3.05238E-14	-6.62273E-17	-5.78600E-04	-1.15638E-06	-2.14050E-07	3.21332E-18
40	1.12576E-05	7.94129E-05	-6.43672E-04	-1.18164E-06	1.61435E-07	-1.03391E-07
47	-3.04326E-14	-4.03422E-16	-6.27824E-04	-1.13501E-06	1.58446E-13	3.06599E-18
48	-3.10547E-14	-4.05437E-16	-4.26573E-04	-1.08836E-06	1.58446E-13	-3.29976E-19
49	-3.11649E-14	-4.04646E-16	-7.35360E-04	-1.18200E-06	1.58446E-13	4.78129E-18
50	3.16730E-14	-4.05173E-16	-8.25110E-04	-1.19958E-06	1.58446E-13	5.37866E-18
51	-3.25297E-14	-4.05560E-16	-9.87763E-04	-1.20980E-06	1.58446E-13	5.71533E-18
58	1.12576E-05	-7.94129E-05	-6.43672E-04	-1.18164E-06	-1.61435E-07	-1.03391E-07
59	-3.04152E-14	-7.74568E-16	-5.78600E-04	-1.15638E-06	2.14050E-07	4.02263E-18
60	-1.12576E-05	7.94129E-05	-6.43672E-04	-1.18164E-06	-1.61435E-07	1.03391E-07
61	3.68534E-04	-1.47123E-04	-1.38123E-03	-1.56937E-05	-4.07332E-05	-3.63161E-06
62	-3.68534E-04	1.47123E-04	-1.38123E-03	-1.56937E-05	-4.07332E-05	3.63161E-06
63	1.32855E-03	-1.20494E-04	-4.83190E-03	-4.51544E-05	-0.95960E-05	-1.27732E-05
64	-3.02949E-14	-5.92000E-15	1.44332E-04	-3.40738E-06	1.33790E-05	7.74652E-17

65	-1.32855E-03	1.20474E-04	-4.83140E-03	-4.51544E-05	-4.95960E-05	1.27732E-05
66	2.17125E-03	-1.14321E-04	-7.87641E-03	-7.53058E-05	-2.86744E-05	-1.93762E-05
67	-2.17125E-03	1.14321E-04	-7.87641E-03	-7.53058E-05	-2.86744E-05	1.93762E-05
68	5.16185E-03	-1.38579E-04	-1.94942E-02	-8.37886E-05	-2.69650E-05	-2.14836E-05
69	-5.16185E-03	1.38579E-04	-1.94942E-02	-8.37886E-05	-2.69650E-05	2.14836E-05
72	2.44382E-03	-1.34103E-04	-8.89441E-03	-7.65172E-05	-2.69650E-05	-1.95582E-05
73	-2.44382E-03	1.34103E-04	-8.89441E-03	-7.65172E-05	-2.69650E-05	1.95582E-05
74	1.05078E-03	-1.43667E-04	-3.33510E-03	-7.62168E-05	-2.49495E-05	-1.90003E-05
75	-1.05078E-03	1.43667E-04	-3.33510E-03	-7.62168E-05	-2.49495E-05	1.90003E-05
76	7.28331E-04	-9.80333E-04	1.16439E-04	-2.08433E-05	1.04231E-05	2.22964E-05
77	-7.28331E-04	9.80333E-04	1.16439E-04	-2.08433E-05	1.04231E-05	-2.22964E-05
78	9.17185E-04	-7.67432E-04	3.77223E-04	-1.25197E-05	1.29548E-05	2.20076E-05
79	-9.17185E-04	7.67432E-04	3.77223E-04	-1.25197E-05	1.29548E-05	-2.20076E-05
80	1.60966E-04	-6.84219E-04	2.27924E-03	2.16051E-05	2.02014E-05	1.77380E-05
81	-1.60966E-04	6.84219E-04	2.27924E-03	2.16051E-05	2.02014E-05	-1.77380E-05
82	-7.40032E-04	-6.99506E-04	3.64520E-03	1.64111E-05	1.45866E-05	1.14331E-05
83	3.01846E-14	-1.29027E-14	1.42878E-03	-6.33233E-06	1.86347E-05	7.53801E-17
84	7.40032E-04	6.99506E-04	3.64520E-03	1.64111E-05	1.45866E-05	-1.14331E-05
85	-7.74287E-04	-7.06753E-04	3.84850E-03	-1.28752E-05	1.40447E-05	1.50447E-07
86	7.74287E-04	7.06753E-04	3.84850E-03	-1.28752E-05	1.40447E-05	-1.50447E-07
87	-2.91500E-14	-1.45569E-14	2.40624E-03	-1.30967E-05	1.42492E-05	-1.05282E-16
88	-2.34205E-14	-9.86255E-15	2.77130E-03	-1.33778E-05	1.39812E-05	-1.09513E-16
90	1.64052E-17	-1.00214E-14	-2.04843E-06	-2.40162E-05	1.39812E-05	-2.01111E-16
95	4.92642E-14	-1.01066E-14	-5.88331E-03	-3.45490E-05	1.39812E-05	-2.49301E-16
96	4.02752E-14	-1.01408E-14	-9.58674E-03	-3.74185E-05	1.39812E-05	-3.13327E-16
97	1.24449E-13	-1.01750E-14	-1.53876E-02	-3.89159E-05	1.39812E-05	-3.25865E-16

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X- TRANSLATION	Y- TRANSLATION	Z- TRANSLATION	X- ROTATION	Y- ROTATION	Z- ROTATION
1	-7.29157E-12	2.92874E-13	7.89342E-01	1.99629E-03	7.17201E-04	1.84400E-14
2	-4.54269E-12	2.91910E-13	4.91775E-01	1.91947E-03	7.17201E-04	1.77305E-14
3	-2.78745E-12	2.90927E-13	3.01798E-01	1.77227E-03	7.17201E-04	1.63710E-14
4	-1.00939E-15	2.84474E-13	1.05079E-04	1.23197E-03	7.17201E-04	1.13405E-14
5	0.	0.	0.	0.	0.	0.
6	0.	0.	0.	0.	0.	0.
7	0.	0.	0.	0.	0.	0.
8	0.	0.	0.	0.	0.	0.
9	1.30233E-12	2.83902E-13	-1.42163E-01	6.86245E-04	7.17201E-04	6.47123E-15
10	0.	0.	0.	0.	0.	0.
11	-3.97189E-02	3.62545E-02	-1.47418E-01	6.60465E-04	7.20456E-04	7.71754E-06
12	1.54074E-12	2.51751E-14	-1.43952E-01	6.71827E-04	7.30974E-04	6.11108E-15
13	3.97189E-02	-3.62545E-02	-1.47418E-01	6.60465E-04	7.20456E-04	-7.71754E-06
14	-3.79617E-02	3.50828E-02	-1.86984E-01	-8.62367E-04	7.48255E-04	5.86488E-04
15	1.63093E-12	-5.43446E-14	-7.32925E-02	3.24832E-04	9.55912E-04	-8.14956E-17
16	3.74617E-02	-3.54628E-02	-1.86984E-01	-8.62367E-04	7.48255E-04	-5.86488E-04
17	4.25711E-03	3.50946E-02	-1.16919E-01	-1.10824E-03	1.03628E-03	4.09914E-04
18	-4.25711E-03	-3.50946E-02	-1.16919E-01	-1.10824E-03	1.03628E-03	-4.09914E-04
19	4.70492E-02	-3.94648E-02	-1.93506E-02	6.42225E-04	6.64546E-04	1.12893E-03
20	-4.70492E-02	3.94648E-02	-1.93506E-02	6.42225E-04	6.64546E-04	-1.12893E-03
21	3.73619E-02	-5.02445E-02	-5.97301E-03	1.06921E-03	5.34677E-04	1.14375E-03
22	-3.73619E-02	5.02445E-02	-5.97301E-03	1.06921E-03	5.34677E-04	-1.14375E-03
23	5.34021E-02	7.36974E-03	1.71082E-01	3.90972E-03	-1.27984E-03	-4.74666E-04
24	-5.34021E-02	-7.36974E-03	1.71082E-01	3.90972E-03	-1.27984E-03	4.74666E-04
25	1.25362E-01	7.08430E-03	4.56286E-01	3.42513E-03	-1.38323E-03	-1.00328E-03
26	-1.25362E-01	-7.08430E-03	4.56286E-01	3.42513E-03	-1.38323E-03	1.00328E-03
27	0.	0.	0.	0.	0.	0.
28	0.	0.	0.	0.	0.	0.
29	2.64749E-01	7.10872E-03	1.00800E+00	4.29813E-03	-1.38323E-03	-1.10205E-03
30	-2.64749E-01	-7.10872E-03	1.00800E+00	4.29813E-03	-1.38323E-03	1.10205E-03
31	1.11379E-01	5.86436E-03	4.04034E-01	3.86299E-03	-1.47022E-03	-4.93950E-04
32	-1.11379E-01	-5.86436E-03	4.04034E-01	3.86299E-03	-1.47022E-03	4.93950E-04
33	6.81511E-02	6.18105E-03	2.47864E-01	2.31630E-03	-2.54415E-03	-6.55230E-04
34	1.60008E-12	-2.93068E-14	-7.40387E-03	2.00438E-04	6.86308E-04	-3.51213E-16
35	-6.81511E-02	-6.18105E-03	2.47864E-01	2.31630E-03	-2.54415E-03	6.55230E-04
36	1.89048E-02	7.54701E-03	7.08535E-02	4.05045E-04	-2.08451E-03	-1.86292E-04
37	-1.89048E-02	-7.54701E-03	7.08535E-02	4.05045E-04	-2.08451E-03	1.86292E-04
38	5.77446E-04	4.07357E-03	3.30187E-02	6.06170E-05	-8.28120E-06	-5.30367E-06
39	1.56579E-12	3.37729E-15	2.96811E-02	5.93190E-05	1.00802E-05	-1.64435E-16
40	-5.77446E-04	-4.07357E-03	3.30187E-02	6.06170E-05	-8.28120E-06	5.30367E-06
41	0.	0.	0.	0.	0.	0.
42	0.	0.	0.	0.	0.	0.
43	0.	0.	0.	0.	0.	0.
44	0.	0.	0.	0.	0.	0.
45	0.	0.	0.	0.	0.	0.
46	0.	0.	0.	0.	0.	0.
47	1.56111E-12	2.00945E-14	3.22057E-02	5.82228E-05	-8.12788E-12	-1.57277E-16

48	1.54303E-12	2.07979E-14	2.18821E-02	5.58300E-05	-8.12788E-12	1.69269E-17
49	1.54807E-12	2.07573E-14	3.77224E-02	6.06337E-05	-8.12788E-12	-2.45267E-16
50	1.62474E-12	2.07803E-14	4.23259E-02	6.15352E-05	-8.12788E-12	-2.75911E-16
51	1.60848E-12	2.03042E-14	5.06697E-02	6.20595E-05	-8.12788E-12	-2.93181E-16
52	0.	0.	0.	0.	0.	0.
53	0.	0.	0.	0.	0.	0.
54	0.	0.	0.	0.	0.	0.
55	0.	0.	0.	0.	0.	0.
56	0.	0.	0.	0.	0.	0.
57	0.	0.	0.	0.	0.	0.
58	-5.77485E-04	4.07307E-03	3.30187E-02	6.06170E-05	8.28118E-06	5.30367E-06
59	1.50022E-12	3.97333E-14	2.96811E-02	5.93190E-05	-1.09802E-05	-2.06350E-16
60	5.77485E-04	-4.07307E-03	3.30187E-02	6.06170E-05	8.28118E-06	-5.30367E-06
61	-1.89048E-02	7.54701E-03	7.08535E-02	8.05045E-04	2.08951E-03	1.86292E-04
62	1.89048E-02	-7.54701E-03	7.08535E-02	8.05045E-04	2.08951E-03	-1.86292E-04
63	-6.81511E-02	6.18105E-03	2.47864E-01	2.31630E-03	2.54415E-03	6.55230E-04
64	1.55425E-12	3.04142E-13	-7.04380E-03	2.00438E-04	-6.86308E-04	-3.99428E-15
65	6.81511E-02	-6.18105E-03	2.47864E-01	2.31630E-03	2.54415E-03	-6.55230E-04
66	-1.11379E-01	5.86430E-03	4.04039E-01	3.86299E-03	1.47092E-03	4.93950E-04
67	1.11379E-01	-5.86430E-03	4.04039E-01	3.86299E-03	1.47092E-03	-4.93950E-04
68	-2.64784E-01	7.10871E-03	1.00000E+00	4.29813E-03	1.38323E-03	1.10205E-03
69	2.64784E-01	-7.10871E-03	1.00000E+00	4.29813E-03	1.38323E-03	-1.10205E-03
70	0.	0.	0.	0.	0.	0.
71	0.	0.	0.	0.	0.	0.
72	-1.25362E-01	7.08430E-03	4.56286E-01	3.42513E-03	1.38323E-03	1.00328E-03
73	1.25362E-01	-7.08430E-03	4.56286E-01	3.42513E-03	1.38323E-03	-1.00328E-03
74	-5.34021E-02	7.36974E-03	1.71082E-01	3.90972E-03	1.27984E-03	4.74666E-04
75	5.34021E-02	-7.36974E-03	1.71082E-01	3.90972E-03	1.27984E-03	-4.74666E-04
76	-3.73615E-02	-5.02885E-02	-5.97301E-03	1.06421E-03	-5.34676E-04	-1.14375E-03
77	3.73615E-02	5.02885E-02	-5.97301E-03	1.06421E-03	-5.34676E-04	1.14375E-03
78	-4.70492E-02	-3.94690E-02	-1.93506E-02	6.42225E-04	-6.64546E-04	-1.12893E-03
79	4.70492E-02	3.94690E-02	-1.93506E-02	6.42225E-04	-6.64546E-04	1.12893E-03
80	-8.25711E-03	3.50986E-02	-1.16914E-01	-1.10829E-03	-1.03628E-03	-4.09914E-04
81	8.25711E-03	-3.50986E-02	-1.16914E-01	-1.10829E-03	-1.03628E-03	4.09914E-04
82	3.79617E-02	3.58828E-02	-1.86989E-01	-0.62367E-04	-7.48255E-04	-5.86488E-04
83	1.54805E-12	6.61072E-13	-7.32925E-02	3.24832E-04	-9.55911E-04	-3.86680E-15
84	-3.79617E-02	-3.58828E-02	-1.86989E-01	-0.62367E-04	-7.48255E-04	5.86488E-04
85	3.97159E-12	3.62545E-02	-1.97418E-01	6.60465E-04	-7.20456E-04	-7.71754E-06
86	-3.97159E-12	-3.62545E-02	-1.97418E-01	6.60465E-04	-7.20456E-04	7.71754E-06
87	1.44953E-12	7.46729E-13	-1.43952E-01	6.71827E-04	-7.30904E-04	5.40068E-15
88	0.	0.	0.	0.	0.	0.
89	1.20141E-12	5.05923E-13	-1.42163E-01	6.82245E-04	-7.17201E-04	5.61772E-15
90	-8.41543E-16	5.14072E-13	1.05079E-04	1.23197E-03	-7.17201E-04	1.03165E-14
91	0.	0.	0.	0.	0.	0.
92	0.	0.	0.	0.	0.	0.
93	0.	0.	0.	0.	0.	0.
94	0.	0.	0.	0.	0.	0.
95	-2.52713E-12	5.18444E-13	3.01798E-01	1.77227E-03	-7.17201E-04	1.48400E-14
96	-4.11791E-12	5.20196E-13	4.91775E-01	1.91947E-03	-7.17201E-04	1.60729E-14
97	-6.60960E-12	5.21950E-13	7.89342E-01	1.94629E-03	-7.17201E-04	1.67160E-14

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	Y=	X=	Y=	X=	Y=	X=	Y=	X=
	TRANSLATION	TRANSLATION	TRANSLATION	TRANSLATION	ROTATION	ROTATION	ROTATION	ROTATION
1	-2.44742E-10	1.74155E-12	1.58805E-02	4.01659E-05	1.39714E-05	7.59249E-13		
2	-1.86443E-10	1.73553E-12	9.84303E-03	3.56183E-05	1.39714E-05	7.29317E-13		
3	-1.14223E-10	1.72953E-12	6.07049E-03	3.56520E-05	1.39714E-05	6.71889E-13		
4	-4.20151E-14	1.71453E-12	2.11811E-06	2.47667E-05	1.39714E-05	4.61145E-13		
9	5.16792E-11	1.63660E-12	-2.85414E-03	1.37752E-05	1.39714E-05	2.51823E-13		
11	-7.71647E-04	7.24954E-04	-3.95748E-03	1.32654E-05	1.40295E-05	1.63819E-07		
12	-6.33845E-11	-8.38902E-12	-2.46621E-03	1.32654E-05	1.42555E-05	-2.37345E-11		
13	-7.71647E-04	-7.24954E-04	-3.95748E-03	1.32654E-05	1.40295E-05	-1.63819E-07		
14	-7.14506E-04	7.24954E-04	-3.75427E-03	-1.71143E-05	1.42555E-05	1.22431E-05		
15	-6.37743E-11	-8.22391E-12	-1.52427E-03	5.96120E-06	1.86899E-05	-5.56273E-14		
16	7.14506E-04	-7.24954E-04	-3.75427E-03	-1.71143E-05	1.42555E-05	-1.22431E-05		
17	2.45016E-04	7.09602E-04	-2.36004E-03	-2.21843E-05	1.97399E-05	1.86528E-05		
18	-2.45016E-04	-7.09602E-04	-2.36004E-03	-2.21843E-05	1.97399E-05	-1.86528E-05		
19	1.05691E-03	-7.92502E-04	-4.27631E-04	1.15751E-05	1.26243E-05	2.17934E-05		
20	-1.05691E-03	7.92502E-04	-4.27631E-04	1.15751E-05	1.26243E-05	-2.17934E-05		
21	8.73253E-04	-1.01159E-03	-1.73159E-04	1.98122E-05	1.01175E-05	2.18835E-05		
22	-8.73253E-04	1.01159E-03	-1.73159E-04	1.98122E-05	1.01175E-05	-2.18835E-05		
23	1.27814E-03	1.18849E-04	3.20152E-03	7.48406E-05	-2.50077E-05	-2.04629E-05		
24	-1.27814E-03	-1.18849E-04	3.20152E-03	7.48406E-05	-2.50077E-05	2.04629E-05		
25	2.77783E-03	1.13278E-04	8.66182E-03	7.51124E-05	-2.69990E-05	-2.10108E-05		
26	-2.77783E-03	-1.13278E-04	8.66182E-03	7.51124E-05	-2.69990E-05	2.10108E-05		
29	5.70694E-03	1.13687E-04	1.96643E-02	8.22338E-05	-2.69990E-05	-2.31423E-05		
30	-5.70694E-03	-1.13687E-04	1.96643E-02	8.22338E-05	-2.69990E-05	2.31423E-05		
31	2.50540E-03	1.46908E-04	7.64304E-03	7.39437E-05	-2.87061E-05	-2.06840E-05		
32	-2.50540E-03	-1.46908E-04	7.64304E-03	7.39437E-05	-2.87061E-05	2.06840E-05		
33	1.66253E-03	1.52545E-04	4.54302E-03	4.44743E-05	-4.99899E-05	-1.18557E-05		
34	-1.66253E-03	-1.52545E-04	4.54302E-03	4.44743E-05	-4.99899E-05	1.18557E-05		
35	0.49813E-04	8.63409E-05	1.09572E-03	1.51734E-05	-4.20212E-05	-2.37191E-06		
36	-0.49813E-04	-8.63409E-05	1.09572E-03	1.51734E-05	-4.20212E-05	2.37191E-06		
37	0.49813E-04	8.63409E-05	1.09572E-03	1.51734E-05	-4.20212E-05	-2.37191E-06		
38	-0.49813E-04	-8.63409E-05	1.09572E-03	1.51734E-05	-4.20212E-05	2.37191E-06		
39	3.00447E-04	1.11176E-06	3.05049E-04	2.45102E-08	-2.84508E-06	6.86478E-15		
40	-3.00447E-04	-1.11176E-06	3.05049E-04	2.45102E-08	-2.84508E-06	-6.86478E-15		
47	0.16811E-11	8.07351E-17	-6.33740E-12	-1.14280E-14	-3.05162E-06	1.55179E-14		
48	-0.16811E-11	-8.07351E-17	-6.33740E-12	-1.14280E-14	-3.05162E-06	-1.55179E-14		
49	0.19549E-11	8.10619E-17	-7.42056E-12	-1.09571E-14	-3.05162E-06	4.70589E-15		
50	-0.19549E-11	-8.10619E-17	-7.42056E-12	-1.09571E-14	-3.05162E-06	-4.70589E-15		
51	0.17533E-11	8.10574E-17	-9.96234E-12	-1.21830E-14	-3.05162E-06	2.87677E-15		
52	-0.17533E-11	-8.10574E-17	-9.96234E-12	-1.21830E-14	-3.05162E-06	-2.87677E-15		
54	3.00447E-04	1.11176E-06	3.05049E-04	2.45102E-08	-2.84508E-06	6.86478E-15		
55	-3.00447E-04	-1.11176E-06	3.05049E-04	2.45102E-08	-2.84508E-06	-6.86478E-15		
60	3.00447E-04	1.11176E-06	3.05049E-04	2.45102E-08	-2.84508E-06	6.86478E-15		
61	-3.00447E-04	-1.11176E-06	3.05049E-04	2.45102E-08	-2.84508E-06	-6.86478E-15		
62	0.49813E-04	8.63409E-05	1.09572E-03	1.51734E-05	-4.20212E-05	-2.37191E-06		
63	-0.49813E-04	-8.63409E-05	1.09572E-03	1.51734E-05	-4.20212E-05	2.37191E-06		
64	0.49813E-04	8.63409E-05	1.09572E-03	1.51734E-05	-4.20212E-05	-2.37191E-06		
65	-0.49813E-04	-8.63409E-05	1.09572E-03	1.51734E-05	-4.20212E-05	2.37191E-06		
66	0.29800E-11	3.01177E-12	3.02300E-04	3.17980E-06	1.19600E-05	-5.58240E-14		

48	1.59303E-12	2.07979E-14	2.18821E-02	5.58300E-05	-8.12788E-12	1.69269E-17
49	1.59467E-12	2.07573E-14	3.77224E-02	6.06337E-05	-8.12788E-12	-2.45267E-16
50	1.62474E-12	2.07843E-14	4.23259E-02	6.15352E-05	-8.12788E-12	-2.75911E-16
51	1.66848E-12	2.08042E-14	5.06697E-02	6.20595E-05	-8.12788E-12	-2.93181E-16
52	0.	0.	0.	0.	0.	0.
53	0.	0.	0.	0.	0.	0.
54	0.	0.	0.	0.	0.	0.
55	0.	0.	0.	0.	0.	0.
56	0.	0.	0.	0.	0.	0.
57	0.	0.	0.	0.	0.	0.
58	-5.77485E-04	4.07367E-03	3.30187E-02	6.06176E-05	8.28118E-06	5.30367E-06
59	1.56022E-12	3.97333E-14	2.96811E-02	5.93190E-05	-1.09802E-05	-2.06350E-16
60	5.77485E-04	-4.07367E-03	3.30187E-02	6.06176E-05	8.28118E-06	-5.30367E-06
61	-1.89048E-02	7.54701E-03	7.08535E-02	8.05045E-04	2.08951E-03	1.86292E-04
62	1.89048E-02	-7.54701E-03	7.08535E-02	8.05045E-04	2.08951E-03	-1.86292E-04
63	-6.81511E-02	6.18105E-03	2.47864E-01	2.31630E-03	2.54415E-03	6.55230E-04
64	1.55425E-12	3.04142E-13	-7.40386E-03	2.00438E-04	-6.86308E-04	-3.99428E-15
65	6.81511E-02	-6.18105E-03	2.47864E-01	2.31630E-03	2.54415E-03	-6.55230E-04
66	-1.11379E-01	5.86436E-03	4.04039E-01	3.85249E-03	1.47092E-03	4.93950E-04
67	1.11379E-01	-5.86436E-03	4.04039E-01	3.85249E-03	1.47092E-03	-4.93950E-04
68	-2.64789E-01	7.10871E-03	1.00000E+00	4.29813E-03	1.38323E-03	1.10205E-03
69	2.64789E-01	-7.10871E-03	1.00000E+00	4.29813E-03	1.38323E-03	-1.10205E-03
70	0.	0.	0.	0.	0.	0.
71	0.	0.	0.	0.	0.	0.
72	-1.25362E-01	7.08430E-03	4.56286E-01	3.42513E-03	1.38323E-03	1.00328E-03
73	1.25362E-01	-7.08430E-03	4.56286E-01	3.42513E-03	1.38323E-03	-1.00328E-03
74	-5.34021E-02	7.36974E-03	1.71082E-01	3.90972E-03	1.27984E-03	4.74666E-04
75	5.34021E-02	-7.36974E-03	1.71082E-01	3.90972E-03	1.27984E-03	-4.74666E-04
76	-3.73615E-02	5.02885E-02	-5.97301E-03	1.06421E-03	-5.34676E-04	-1.14375E-03
77	3.73615E-02	-5.02885E-02	-5.97301E-03	1.06421E-03	-5.34676E-04	1.14375E-03
78	-4.76492E-02	-3.94698E-02	-1.93500E-02	6.42225E-04	-6.64546E-04	-1.12893E-03
79	4.76492E-02	3.94698E-02	-1.93500E-02	6.42225E-04	-6.64546E-04	1.12893E-03
80	-8.25711E-03	3.50986E-02	-1.16914E-01	-1.10829E-03	-1.03628E-03	-4.09914E-04
81	8.25711E-03	-3.50986E-02	-1.16914E-01	-1.10829E-03	-1.03628E-03	4.09914E-04
82	3.79617E-02	3.58828E-02	-1.86989E-01	-8.62367E-04	-7.48255E-04	-5.86488E-04
83	1.54865E-12	6.61872E-13	-7.32425E-02	3.24832E-04	-9.55911E-04	-3.86680E-15
84	-3.79617E-02	-3.58828E-02	-1.86989E-01	-8.62367E-04	-7.48255E-04	5.86488E-04
85	3.97189E-02	3.62545E-02	-1.97418E-01	6.60465E-04	-7.20456E-04	-7.71754E-06
86	-3.97189E-02	-3.62545E-02	-1.97418E-01	6.60465E-04	-7.20456E-04	7.71754E-06
87	1.44532E-12	7.48724E-13	-1.43952E-01	6.71827E-04	-7.30904E-04	5.40068E-15
88	0.	0.	0.	0.	0.	0.
89	1.20141E-12	5.05923E-13	-1.42163E-01	6.85245E-04	-7.17201E-04	5.61772E-15
90	-8.41543E-16	5.14072E-13	1.05074E-04	1.23147E-03	-7.17201E-04	1.03165E-14
91	0.	0.	0.	0.	0.	0.
92	0.	0.	0.	0.	0.	0.
93	0.	0.	0.	0.	0.	0.
94	0.	0.	0.	0.	0.	0.
95	-2.52713E-12	5.18444E-13	3.01748E-01	1.77227E-03	-7.17201E-04	1.48404E-14
96	-4.11791E-12	5.20196E-13	4.91775E-01	1.91447E-03	-7.17201E-04	1.60729E-14
97	-6.60960E-12	5.21945E-13	7.89342E-01	1.44624E-03	-7.17201E-04	1.67160E-14

CASE 1
* *

0 IGN FACTORS

X = 1.0000 Y = .6667 Z = 1.0000

INDICATOR FOR DISPLACEMENT OR ACCELERATION SPECTRUM = 1

EQ.0 DISPLACEMENT
EQ.1 ACCELERATION IN IN./SEC.2
EQ.2 ACCELERATION IN GS

1 SPECTRA ARE ENTERED FOR CASE 1. KIND= 2

* CLUSTER FACTOR, CF = .10000

MODAL PARTICIPATION FACTORS

MODE	X-DIRECTION	Y-DIRECTION	Z-DIRECTION
1	.5102E-10	-.3716E-12	.2165E-09
2	.1383E-08	.6942E-11	.2921E+00
3	-.1657E+02	-.7767E-10	-.5514E-11
4	.2198E-08	-.1227E+01	.1421E-05
5	-.2243E-09	-.3249E-10	-.6161E+02
6	.1150E-06	.9650E-11	-.6207E-06
7	.8745E+01	.3753E-08	.2410E-09
8	.2607E-09	-.1750E+01	.7944E-12
9	-.9470E+02	.1641E-10	.4038E-10
10	.4733E-10	.1535E-10	-.7061E+02
11	-.5721E-10	.3610E-10	.1374E-10
12	-.1143E-10	-.2879E+02	.7708E-11
13	-.1298E-01	.2550E-06	.4197E-09
14	.4185E-11	.6458E+02	.3514E-07
15	.4931E-09	.3805E-08	-.3512E+02
16	.4449E-08	-.5633E-11	.9942E+01
17	.3998E+02	-.3287E-10	.3206E-09
18	.9771E+00	.1729E-10	.9803E-10
19	-.3648E-10	-.7395E-10	.1911E-08
20	-.1098E-10	.4086E-08	.2318E+02
21	.4303E-10	.7851E+02	.2391E-10
22	-.1367E+01	.6558E-08	.7041E-10
23	-.3884E-10	.4446E+02	-.6918E-10
24	.3679E-11	-.1890E-10	.9595E-06
25	-.1942E-10	-.6229E-09	-.8171E+01
26	.2161E-07	.9768E+01	-.3022E-10
27	.1911E+01	-.2359E-07	.3357E-10
28	.2910E-10	-.1770E-10	-.1168E-08
	-.5560E+01	.1681E-10	-.4396E-10
40	-.4013E-10	-.1375E+01	.9511E-11

SPECTRUM TABLE (BENCHMARK PROBLEM RESPONSE SPECTRUM.

NUMBER OF POINTS = 38

SCALE FACTOR = .10000E+01

INPUT POINT	PERIOD	SPECTRUM VALUE
1	.5000E-02	.1600E+03
2	.1020E-01	.1600E+03
3	.1391E-01	.2430E+03
4	.1700E-01	.2430E+03
5	.1923E-01	.1700E+03
6	.2164E-01	.2550E+03
7	.2439E-01	.2550E+03
8	.2667E-01	.4070E+03
9	.4202E-01	.4750E+03
10	.4609E-01	.5550E+03
11	.5528E-01	.6520E+03
12	.5882E-01	.7550E+03
13	.6711E-01	.7550E+03
14	.7110E-01	.8650E+03
15	.1000E+00	.8650E+03
16	.1156E+00	.1222E+04
17	.1413E+00	.1222E+04
18	.1482E+00	.1150E+04
19	.1534E+00	.1399E+04
20	.1876E+00	.1399E+04
21	.1923E+00	.1140E+04
22	.2268E+00	.1140E+04
23	.2392E+00	.1057E+04
24	.2924E+00	.1057E+04
25	.3049E+00	.1023E+04
26	.3175E+00	.8550E+03
27	.3460E+00	.8550E+03
28	.3571E+00	.8120E+03
29	.3922E+00	.8120E+03
30	.4167E+00	.9140E+03
31	.5208E+00	.9140E+03
32	.5263E+00	.8650E+03
33	.6173E+00	.8650E+03
34	.6250E+00	.9050E+03
35	.7813E+00	.9050E+03
36	.8696E+00	.6620E+03
37	.9524E+00	.6620E+03
38	.1000E+01	.6000E+03

CLUSTERING. +1 MEANS MODE I CLOSE TO I+1. -1, NOT.

1. 1. 1. 1. 1. 1. -1. -1. -1. -1. 1. 1. 1. 1. -1. 1. -1. -1. 1. 1. 1. 1. -1. 1. -1.
1. -1. 1. 1. 0.

Solution 4a

Interspatial/Intermodal Combination

N O D E I NUM	D I S P L A C E M E N T MODE NUMBER	X- TRANSLATION	Y- TRANSLATION	Z- TRANSLATION	X- ROTATION	Y- ROTATION	Z- ROTATION
1	TOTAL..	3.53522E-01	7.63799E-02	7.03018E-01	1.77795E-03	6.85165E-04	9.42045E-04
2	TOTAL..	2.09547E-01	7.52134E-02	4.38002E-01	1.70955E-03	6.85165E-04	8.76306E-04
3	TOTAL..	1.21051E-01	7.40533E-02	2.68808E-01	1.57849E-03	6.85165E-04	7.52539E-04
4	TOTAL..	1.20718E-04	7.11737E-02	9.38550E-05	1.09777E-03	6.85165E-04	3.53310E-04
5	TOTAL..	0.	0.	0.	0.	0.	0.
6	TOTAL..	0.	0.	0.	0.	0.	0.
7	TOTAL..	0.	0.	0.	0.	0.	0.
8	TOTAL..	0.	0.	0.	0.	0.	0.
9	TOTAL..	6.41472E-02	6.59306E-02	1.26979E-01	6.13108E-04	6.85165E-04	2.90896E-04
10	TOTAL..	0.	0.	0.	0.	0.	0.
11	TOTAL..	1.09091E-01	7.70045E-02	1.76855E-01	5.95152E-04	6.89101E-04	2.89241E-04
12	TOTAL..	8.83701E-02	6.41949E-02	1.29991E-01	6.00493E-04	6.99422E-04	3.25465E-04
13	TOTAL..	1.09091E-01	7.70045E-02	1.76855E-01	5.95152E-04	6.89101E-04	2.89241E-04
14	TOTAL..	1.09395E-01	7.80424E-02	1.74329E-01	1.05325E-03	7.88419E-04	7.30852E-04
15	TOTAL..	1.19602E-01	5.56852E-02	8.90760E-02	3.17339E-04	9.40693E-04	3.24422E-04
16	TOTAL..	1.09395E-01	7.80424E-02	1.74329E-01	1.05325E-03	7.88419E-04	7.30852E-04
17	TOTAL..	9.01020E-02	7.77114E-02	1.33817E-01	1.30768E-03	1.09383E-03	1.07365E-03
18	TOTAL..	9.01020E-02	7.77114E-02	1.33817E-01	1.30768E-03	1.09383E-03	1.07365E-03
19	TOTAL..	1.20800E-01	6.85143E-02	1.00800E-01	1.43389E-03	7.83650E-04	1.38527E-03
20	TOTAL..	1.20800E-01	6.85143E-02	1.00800E-01	1.43389E-03	7.83650E-04	1.38527E-03

21 TOTAL..	1.14317E-01	7.12521E-02	9.64466E-02	1.80492E-03	7.17481E-04	1.41851E-03
22 TOTAL..	1.14317E-01	7.12521E-02	9.64466E-02	1.80492E-03	7.17481E-04	1.41851E-03
23 TOTAL..	1.24518E-01	2.29123E-02	2.26213E-01	4.83634E-03	1.74657E-03	1.97270E-03
24 TOTAL..	1.24518E-01	2.29123E-02	2.26213E-01	4.83634E-03	1.74657E-03	1.97270E-03
25 TOTAL..	2.38773E-01	2.28652E-02	5.73150E-01	4.86020E-03	1.86211E-03	2.04576E-03
26 TOTAL..	2.38773E-01	2.28652E-02	5.73150E-01	4.86020E-03	1.86211E-03	2.04576E-03
27 TOTAL..	0.	0.	0.	0.	0.	0.
28 TOTAL..	0.	0.	0.	0.	0.	0.
29 TOTAL..	5.35547E-01	2.39140E-02	1.24560E+00	5.33244E-03	1.86211E-03	2.47273E-03
30 TOTAL..	5.35547E-01	2.39140E-02	1.24560E+00	5.33244E-03	1.86211E-03	2.47273E-03
31 TOTAL..	2.24894E-01	4.78673E-02	5.04800E-01	4.78029E-03	1.97228E-03	1.95717E-03
32 TOTAL..	2.24894E-01	4.78673E-02	5.04800E-01	4.78029E-03	1.97228E-03	1.95717E-03
33 TOTAL..	1.83245E-01	7.47348E-02	3.08565E-01	2.84233E-03	3.30590E-03	8.12854E-04
34 TOTAL..	1.26534E-01	2.52305E-02	8.81893E-02	2.29164E-04	6.76240E-04	3.50185E-04
35 TOTAL..	1.83245E-01	7.47348E-02	3.08565E-01	2.84233E-03	3.30590E-03	8.12854E-04
36 TOTAL..	1.45296E-01	3.18595E-02	1.22921E-01	1.02129E-03	2.70194E-03	5.98622E-04
37 TOTAL..	1.45296E-01	3.18595E-02	1.22921E-01	1.02129E-03	2.70194E-03	5.98622E-04
38 TOTAL..	1.33095E-01	1.54223E-02	1.08506E-01	1.66288E-04	2.35309E-05	4.49766E-05
39 TOTAL..	1.34420E-01	7.18936E-03	1.06723E-01	1.70155E-04	1.52306E-05	3.47639E-05
TOTAL..	1.33095E-01	1.54223E-02	1.08506E-01	1.66288E-04	2.35309E-05	4.49766E-05
41 TOTAL..	0.	0.	0.	0.	0.	0.

ITAL..	0.	0.	0.	0.	0.	0.
43 TOTAL..	0.	0.	0.	0.	0.	0.
44 TOTAL..	0.	0.	0.	0.	0.	0.
45 TOTAL..	0.	0.	0.	0.	0.	0.
46 TOTAL..	0.	0.	0.	0.	0.	0.
47 TOTAL..	1.35475E-01	8.13214E-03	1.11953E-01	1.70003E-04	8.62406E-12	4.00182E-05
48 TOTAL..	1.55439E-01	8.97273E-03	1.56964E-01	2.18694E-04	8.62406E-12	7.44163E-05
49 TOTAL..	1.37775E-01	8.53109E-03	1.06481E-01	1.61145E-04	8.62406E-12	3.29628E-05
50 TOTAL..	1.38582E-01	8.67402E-03	1.01344E-01	1.58973E-04	8.62406E-12	3.29880E-05
51 TOTAL..	1.39343E-01	8.78733E-03	9.37290E-02	1.57989E-04	8.62406E-12	3.36407E-05
52 TOTAL..	0.	0.	0.	0.	0.	0.
53 TOTAL..	0.	0.	0.	0.	0.	0.
54 TOTAL..	0.	0.	0.	0.	0.	0.
55 TOTAL..	0.	0.	0.	0.	0.	0.
56 TOTAL..	0.	0.	0.	0.	0.	0.
57 TOTAL..	0.	0.	0.	0.	0.	0.
58 TOTAL..	1.33095E-01	1.54223E-02	1.08506E-01	1.66288E-04	2.35309E-05	4.49766E-05
59 TOTAL..	1.34420E-01	7.18936E-03	1.06723E-01	1.70155E-04	1.52306E-05	3.47639E-05
60 TOTAL..	1.33095E-01	1.54223E-02	1.08506E-01	1.66288E-04	2.35309E-05	4.49766E-05
61 TOTAL..	1.45296E-01	3.18595E-02	1.22421E-01	1.02129E-03	2.70194E-03	5.98622E-04
62 TOTAL..	1.45296E-01	3.18595E-02	1.22921E-01	1.02129E-03	2.70194E-03	5.98622E-04

63 TOTAL..	1.83245E-01	7.47348E-02	3.08564E-01	2.84233E-03	3.30590E-03	8.12853E-04
64 TOTAL..	1.26534E-01	2.52305E-02	8.81893E-02	2.29164E-04	6.76240E-04	3.50185E-04
65 TOTAL..	1.83245E-01	7.47348E-02	3.08564E-01	2.84233E-03	3.30590E-03	8.12853E-04
66 TOTAL..	2.24894E-01	4.78673E-02	5.04800E-01	4.78029E-03	1.97228E-03	1.95717E-03
67 TOTAL..	2.24894E-01	4.78673E-02	5.04800E-01	4.78029E-03	1.97228E-03	1.95717E-03
68 TOTAL..	5.35547E-01	2.39140E-02	1.24560E+00	5.33244E-03	1.86211E-03	2.47273E-03
69 TOTAL..	5.35547E-01	2.39140E-02	1.24560E+00	5.33244E-03	1.86211E-03	2.47273E-03
70 TOTAL..	0.	0.	0.	0.	0.	0.
71 TOTAL..	0.	0.	0.	0.	0.	0.
72 TOTAL..	2.38773E-01	2.28652E-02	5.73150E-01	4.86020E-03	1.86211E-03	2.04576E-03
73 TOTAL..	2.38773E-01	2.28652E-02	5.73150E-01	4.86020E-03	1.86211E-03	2.04576E-03
74 TOTAL..	1.24518E-01	2.29123E-02	2.26213E-01	4.83634E-03	1.74657E-03	1.97270E-03
75 TOTAL..	1.24518E-01	2.29123E-02	2.26213E-01	4.83634E-03	1.74657E-03	1.97270E-03
76 TOTAL..	1.14317E-01	7.12521E-02	9.64466E-02	1.80492E-03	7.17481E-04	1.41851E-03
77 TOTAL..	1.14317E-01	7.12521E-02	9.64466E-02	1.80492E-03	7.17481E-04	1.41851E-03
78 TOTAL..	1.20800E-01	6.85143E-02	1.00800E-01	1.43389E-03	7.83650E-04	1.38527E-03
79 TOTAL..	1.20800E-01	6.85143E-02	1.00800E-01	1.43389E-03	7.83650E-04	1.38527E-03
80 TOTAL..	9.01020E-02	7.77114E-02	1.33817E-01	1.30768E-03	1.09383E-03	1.07365E-03
81 TOTAL..	9.01020E-02	7.77114E-02	1.33817E-01	1.30768E-03	1.09383E-03	1.07365E-03
82 TOTAL..	1.09395E-01	7.80424E-02	1.74429E-01	1.05325E-03	7.88419E-04	7.30852E-04
TOTAL..	1.19602E-01	5.56852E-02	8.90760E-02	5.17439E-04	9.40693E-04	3.24422E-04

84 TOTAL..	1.09395E-01	7.80424E-02	1.74129E-01	1.05325E-03	7.88419E-04	7.30852E-04
85 TOTAL..	1.09091E-01	7.70045E-02	1.76855E-01	5.95152E-04	6.89101E-04	2.89241E-04
86 TOTAL..	1.09091E-01	7.70045E-02	1.76855E-01	5.95152E-04	6.89101E-04	2.89241E-04
87 TOTAL..	8.83701E-02	6.41949E-02	1.29991E-01	6.00493E-04	6.99422E-04	3.25465E-04
88 TOTAL..	0.	0.	0.	0.	0.	0.
89 TOTAL..	6.41472E-02	6.59306E-02	1.26979E-01	6.13108E-04	6.85165E-04	2.90896E-04
90 TOTAL..	1.20778E-04	7.11737E-02	9.38550E-05	1.09777E-03	6.85165E-04	3.53310E-04
91 TOTAL..	0.	0.	0.	0.	0.	0.
92 TOTAL..	0.	0.	0.	0.	0.	0.
93 TOTAL..	0.	0.	0.	0.	0.	0.
94 TOTAL..	0.	0.	0.	0.	0.	0.
95 TOTAL..	1.21051E-01	7.40533E-02	2.68808E-01	1.57849E-03	6.85165E-04	7.52539E-04
96 TOTAL..	2.09547E-01	7.52134E-02	4.38001E-01	1.70955E-03	6.85165E-04	8.76306E-04
97 TOTAL..	3.53522E-01	7.63799E-02	7.08017E-01	1.77795E-03	6.85165E-04	9.42045E-04

RESPONSE SPECTRUM STRESS COMPONENTS (KIND = 2)

OR EACH ELEMENT, THE FOLLOWING INFORMATION IS PRINTED:

1. FOR EACH EARTH QUAKE DIRECTION; THE NUMBER OF THE MODE WITH THE LARGEST STRESS.
 2. THE VALUE OF THAT STRESS.
 3. IF REQUESTED; THE MODE BY MODE STRESSES FOR EACH EARTH QUAKE DIRECTION.
 4. THE RESULTANT FOR EACH EARTH QUAKE DIRECTION.
 5. THE GRAND TOTAL OF THE THREE EARTH QUAKE DIRECTIONS.
- (NOTE: THE X, Y, OR Z REFERS TO THE EARTH QUAKE DIRECTION.)

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (1)

	HDRY-F	HDRY-M
X	9	0
X MAXIMUM	-1.167E+06 0.	
Y	14	0
Y MAXIMUM	5.373E+04 0.	
Z	4	0
Z MAXIMUM	-5.877E-04 0.	
GRAND TOTAL	1.208E+06 0.	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (2)

	HDRY-F	HDRY-M
X	6	0
X MAXIMUM	1.781E-03 0.	
Y	4	0
Y MAXIMUM	-3.166E-04 0.	
Z	5	0
Z MAXIMUM	9.276E+05 0.	
GRAND TOTAL	9.386E+05 0.	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (3)

	HDRY-F	HDRY-M
X	9	0
X MAXIMUM	1.167E+06 0.	
Y	14	0
Y MAXIMUM	-5.373E+04 0.	
Z	4	0
Z MAXIMUM	5.877E-04 0.	
GRAND TOTAL	1.208E+06 0.	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (4)

	HDRY-F	HDRY-M
X	6	0
X MAXIMUM	-1.781E-03 0.	
Y	4	0
Y MAXIMUM	3.166E-04 0.	
Z	5	0
Z MAXIMUM	-9.276E+05 0.	
GRAND TOTAL	9.386E+05 0.	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (5)

	HDRY-F	HDRY-M
X	9	0
X MAXIMUM	-1.841E+05 0.	
Y	21	0
Y MAXIMUM	-1.694E+05 0.	
Z	10	0

GRAND TOTAL 7.711E+05 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (6)

	BDRY-F	BDRY-M
X	9	0
X MAXIMUM	-8.864E+04 0.	
Y	21	0
Y MAXIMUM	-1.815E+05 0.	
Z	4	0
Z MAXIMUM	8.440E-04 0.	
GRAND TOTAL	3.595E+05 0.	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (7)

	BDRY-F	BDRY-M
X	9	0
X MAXIMUM	-1.841E+05 0.	
Y	21	0
Y MAXIMUM	-1.694E+05 0.	
Z	10	0
Z MAXIMUM	-5.614E+05 0.	
GRAND TOTAL	7.711E+05 0.	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (8)

	BDRY-F	BDRY-M
X	6	0
X MAXIMUM	2.144E-04 0.	
Y	14	0
Y MAXIMUM	2.459E-04 0.	
Z	10	0
Z MAXIMUM	1.016E+06 0.	
GRAND TOTAL	1.067E+06 0.	

-171

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (9)

	BDRY-F	BDRY-M
X	9	0
X MAXIMUM	-8.542E+05 0.	
Y	12	0
Y MAXIMUM	6.228E+03 0.	
Z	10	0
Z MAXIMUM	6.888E+05 0.	
GRAND TOTAL	1.231E+06 0.	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (10)

	BDRY-F	BDRY-M
X	9	0
X MAXIMUM	8.542E+05 0.	
Y	12	0
Y MAXIMUM	-6.228E+03 0.	
Z	10	0
Z MAXIMUM	6.888E+05 0.	
GRAND TOTAL	1.231E+06 0.	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (11)

	BDRY-F	BDRY-M
X	9	0
X MAXIMUM	8.864E+04 0.	

Y 21 0
Y MAXIMUM -1.815E+05 0.
Z 4 0
Z MAXIMUM 8.440E-04 0.
GRAND TOTAL 3.595E+05 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (12)

BDRY-F BDRY-M
X 6 0
X MAXIMUM -2.144E-04 0.
Y 14 0
Y MAXIMUM 2.457E-04 0.
Z 10 0
Z MAXIMUM 1.016E+06 0.
GRAND TOTAL 1.067E+06 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (13)

BDRY-F BDRY-M
X 9 0
X MAXIMUM 1.841E+05 0.
Y 21 0
Y MAXIMUM -1.694E+05 0.
Z 10 0
Z MAXIMUM -5.614E+05 0.
GRAND TOTAL 7.711E+05 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (14)

BDRY-F BDRY-M
X 9 0
X MAXIMUM 8.542E+05 0.
Y 12 0
Y MAXIMUM 6.228E+03 0.
Z 10 0
Z MAXIMUM 6.888E+05 0.
GRAND TOTAL 1.231E+06 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (15)

BDRY-F BDRY-M
X 9 0
X MAXIMUM 1.841E+05 0.
Y 21 0
Y MAXIMUM -1.694E+05 0.
Z 10 0
Z MAXIMUM 5.614E+05 0.
GRAND TOTAL 7.711E+05 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (16)

BDRY-F BDRY-M
X 9 0
X MAXIMUM -8.542E+05 0.
Y 12 0
Y MAXIMUM -6.228E+03 0.
Z 10 0
Z M 4 6.888E+05 0.
GRA TAL 1.231E+06 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (17)

BDRY-F BDRY-M
X 9 0
X UM 1.167E+06 0.
Y 14 0
Y UM 5.373E+04 0.
Z 4 0
Z MAXIMUM -5.877E-04 0.
GRAND TOTAL 1.208E+06 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (18)

BDRY-F BDRY-M
X 9 0
X MAXIMUM -1.167E+06 0.
Y 14 0
Y MAXIMUM -5.373E+04 0.
Z 4 0
Z MAXIMUM 5.877E-04 0.
GRAND TOTAL 1.208E+06 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (19)

BDRY-F BDRY-M
X 6 0
X MAXIMUM -1.781E-03 0.
Y 4 0
Y MAXIMUM -2.921E-04 0.
Z 5 0
Z MAXIMUM 9.276E+05 0.
GRAND TOTAL 9.386E+05 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (20)

BDRY-F BDRY-M
X 6 0
X MAXIMUM 1.781E-03 0.
Y 4 0
Y MAXIMUM 2.921E-04 0.
Z 5 0
Z MAXIMUM -9.276E+05 0.
GRAND TOTAL 9.386E+05 0.

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (1)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	6	9	0	7	7	9	6	9	0	9	6
X MAXIMUM	4.245E+04	-1.202E-03	6.059E+05	0.	4.537E-07	6.217E-15	4.245E+04	-1.202E-03	6.059E+05	0.	8.725E+07	1.732E-01
Y	14	4	8	0	8	4	14	4	8	0	8	4
Y MAXIMUM	2.556E+05	2.139E-04	2.049E+04	0.	2.980E-07	3.553E-15	2.556E+05	2.139E-04	2.049E+04	0.	2.951E+06	-3.080E-02
Z	4	5	4	0	5	5	4	5	4	0	4	5
Z MAXIMUM	-2.915E-04	-6.267E+05	1.966E-04	0.	-8.327E-17	-1.144E-05	-2.915E-04	-6.267E+05	1.966E-04	0.	2.831E-02	9.024E+07
GRAND TOTAL	3.154E+05	6.330E+05	6.382E+05	0.	1.465E-06	1.163E-05	3.154E+05	6.330E+05	6.382E+05	0.	9.190E+07	9.116E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (2)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	6	9	6	9	6	9	6	9	6	9	6
X MAXIMUM	6.351E+04	-1.577E-03	7.804E+05	3.553E-15	8.725E+07	1.732E-01	6.351E+04	-1.577E-03	7.804E+05	3.553E-15	1.622E+08	3.245E-01
Y	14	4	8	4	8	4	14	4	8	4	8	4
Y MAXIMUM	3.814E+05	2.805E-04	2.672E+04	-8.882E-16	2.951E+06	-3.080E-02	3.814E+05	2.805E-04	2.672E+04	-8.882E-16	5.516E+06	-5.773E-02
Z	4	5	4	5	4	5	4	5	4	5	4	5
Z MAXIMUM	-4.368E-04	-8.219E+05	2.579E-04	1.907E-06	2.831E-02	9.024E+07	-4.368E-04	-8.219E+05	2.579E-04	1.907E-06	5.308E-02	1.691E+08
GRAND TOTAL	4.706E+05	8.299E+05	8.229E+05	2.200E-06	9.190E+07	9.116E+07	4.706E+05	8.299E+05	8.229E+05	2.200E-06	1.709E+08	1.708E+08

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (3)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	6	9	6	9	6	9	6	9	6	9	6
X MAXIMUM	8.439E+04	-1.807E-03	8.770E+05	5.329E-15	1.622E+08	3.245E-01	8.439E+04	-1.807E-03	8.770E+05	5.329E-15	1.200E+08	6.498E-01
Y	14	4	8	4	8	4	14	4	8	4	8	4
Y MAXIMUM	5.051E+05	3.214E-04	3.042E+04	-1.332E-15	5.516E+06	-5.773E-02	5.051E+05	3.214E-04	3.042E+04	-1.332E-15	1.099E+07	-1.156E-01
Z	4	5	4	5	4	5	4	5	4	5	4	5
Z MAXIMUM	-5.816E-04	-9.417E+05	2.956E-04	2.861E-06	5.308E-02	1.691E+08	-5.816E-04	-9.417E+05	2.956E-04	2.861E-06	1.063E-01	3.386E+08
GRAND TOTAL	6.234E+05	9.506E+05	9.260E+05	3.244E-06	1.709E+08	1.708E+08	6.234E+05	9.506E+05	9.260E+05	3.244E-06	3.476E+08	3.419E+08

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (4)

	PX(I)	VY(J)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	6	9	6	9	6	9	6	9	6	9	6
X MAXIMUM	1.560E+05	1.754E-03	-1.457E+06	3.553E-15	3.200E+08	6.498E-01	1.560E+05	1.754E-03	-1.457E+06	3.553E-15	5.783E+07	3.340E-01
Y	14	4	14	4	8	4	14	4	14	4	14	4
Y MAXIMUM	9.202E+05	-3.118E-04	8.384E+04	-4.441E-16	1.099E+07	-1.156E-01	9.202E+05	-3.118E-04	8.384E+04	-4.441E-16	6.247E+06	-5.946E-02
Z	4	5	4	5	4	5	4	5	4	5	4	5
Z MAXIMUM	-1.084E-03	9.134E+05	-8.796E-04	9.537E-07	1.063E-01	3.386E+08	-1.084E-03	9.134E+05	-8.796E-04	9.537E-07	-5.204E-02	1.742E+08
GRAND TOTAL	1.136E+06	9.273E+05	1.494E+06	9.710E-07	3.376E+08	3.419E+08	1.136E+06	9.273E+05	1.494E+06	9.710E-07	7.883E+07	1.756E+08

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (5)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	6	9	6	9	6	9	6	9	6	9	6
X MAXIMUM	3.281E+05	8.878E-04	1.808E+05	3.637E-02	-3.388E+07	1.691E-01	3.281E+05	8.878E-04	1.808E+05	3.637E-02	1.603E+07	-7.590E-02
Y	14	4	14	4	14	4	14	4	14	4	14	4
Y MAXIMUM	9.052E+05	-1.585E-04	-1.059E+04	-6.681E-03	1.781E+06	-3.019E-02	9.052E+05	-1.585E-04	-1.059E+04	-6.681E-03	-1.142E+06	1.355E-02
Z	4	5	4	5	4	5	4	5	4	5	4	5
Z MAXIMUM	-5.690E-03	4.644E+05	-1.644E-04	1.960E+07	3.476E-02	8.846E+07	-5.690E-03	4.644E+05	-1.644E-04	1.960E+07	-1.062E-02	-3.970E+07
GRAND TOTAL	1.172E+06	4.699E+05	2.314E+05	2.121E+07	4.364E+07	8.952E+07	1.172E+06	4.699E+05	2.314E+05	2.121E+07	2.025E+07	4.017E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (6)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	9	9	9	3	9	3	9	9	9	3
X MAXIMUM	4.856E+04	-4.320E+04	-3.986E+04	2.034E+06	7.254E+06	-6.116E+06	4.856E+04	-4.320E+04	-3.986E+04	2.034E+06	3.658E+06	-2.220E+06
Y	14	21	14	12	12	21	14	21	14	12	12	21
Y MAXIMUM	1.211E+04	1.050E+04	-1.523E+04	-5.264E+05	-1.833E+06	2.193E+06	1.211E+04	1.050E+04	-1.523E+04	-5.264E+05	-9.854E+05	1.245E+06
Z	5	5	5	5	5	5	5	5	5	5	5	5
Z MAXIMUM	-2.807E+04	-1.682E+05	5.459E+04	-8.347E+06	-1.065E+07	-2.907E+07	-2.807E+04	-1.682E+05	5.459E+04	-8.347E+06	-5.724E+06	-1.389E+07
GRAND TOTAL	7.817E+04	2.231E+05	1.048E+05	1.008E+07	1.908E+07	3.742E+07	7.817E+04	2.231E+05	1.048E+05	1.008E+07	9.689E+06	1.732E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (7)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	9	9	9	3	9	3	9	9	9	3
X MAXIMUM	4.856E+04	-4.320E+04	-3.986E+04	-2.034E+06	-7.254E+06	-6.116E+06	4.856E+04	-4.320E+04	-3.986E+04	-2.034E+06	-3.658E+06	-2.220E+06
Y	14	21	14	12	12	21	14	21	14	12	12	21
Y MAXIMUM	1.211E+04	1.050E+04	-1.523E+04	5.264E+05	1.833E+06	2.193E+06	1.211E+04	1.050E+04	-1.523E+04	5.264E+05	9.854E+05	1.245E+06
Z	5	5	5	5	5	5	5	5	5	5	5	5
Z MAXIMUM	2.807E+04	1.682E+05	5.459E+04	-8.347E+06	-1.065E+07	2.907E+07	2.807E+04	1.682E+05	5.459E+04	-8.347E+06	-5.724E+06	1.389E+07
GRAND TOTAL	7.817E+04	2.231E+05	1.048E+05	1.008E+07	1.908E+07	3.742E+07	7.817E+04	2.231E+05	1.048E+05	1.008E+07	9.689E+06	1.732E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (8)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	6	6	6	9	9	9	6	6	6	9
X MAXIMUM	-1.258E+06	-1.108E+06	-3.803E-04	-7.064E-04	6.096E-02	-1.065E+08	-1.258E+06	-1.108E+06	-3.803E-04	-7.064E-04	3.421E-02	-2.86
Y	14	8	4	4	4	14	14	8	4	4	4	14
Y MAXIMUM	9.959E+04	-2.544E+04	6.422E-05	3.891E-04	-1.045E-02	-8.103E+06	9.959E+04	-2.544E+04	6.422E-05	3.891E-04	-5.911E-03	-7.535E+06

Z 4 4 5 4 5 4 5 4 5 4 5 4
 X MAXIMUM -2.300E-03-1.504E-03-1.878E+05-2.806E+06 3.051E+07-1.177E-01-2.300E-03-1.504E-03-1.878E+05-2.806E+06 1.730E+07-1 -02
 TOTAL 1.271E+06 1.115E+06 2.213E+05 3.085E+06 3.521E+07 1.082E+08 1.271E+06 1.115E+06 2.213E+05 3.085E+06 1.968E+07 3 107

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (9)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	3	9	9	9	3	9	3	9	9	9	3
X MAXIMUM	4.872E+04	4.319E+04	4.100E+04	2.030E+06	-3.662E+06	2.219E+06	5.210E+04	3.762E+04	4.100E+04	8.063E+05	-3.296E+06	1.367E+06
Y	14	14	14	12	12	21	14	21	14	12	12	21
Y MAXIMUM	1.360E+04	1.157E+04	1.507E+04	-5.255E+05	9.866E+05	-1.245E+06	1.673E+04	-1.180E+04	1.507E+04	-1.912E+05	9.143E+05	-1.010E+06
Z	5	5	5	5	5	5	5	5	5	5	5	5
Z MAXIMUM	-2.848E+04	1.694E+05	-5.503E+04	-8.330E+06	5.723E+06	1.390E+07	3.102E+04	1.689E+05	-5.503E+04	-6.076E+06	7.095E+06	1.033E+07
GRAND TOTAL	7.885E+04	2.243E+05	1.057E+05	1.006E+07	9.694E+06	1.733E+07	9.394E+04	2.183E+05	1.057E+05	7.240E+06	1.004E+07	1.270E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (9)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	9	3	9	9
X MAXIMUM	4.923E+04	2.753E+04	4.100E+04	-7.102E+05	-2.534E+06	1.305E+06
Y	14	21	14	12	12	14
Y MAXIMUM	1.785E+04	-1.171E+04	1.507E+04	9.829E+04	7.323E+05	8.312E+05
Z	5	5	5	5	5	5
Z MAXIMUM	8.679E+04	1.482E+05	-5.503E+04	-3.489E+06	7.616E+06	6.988E+06
GRAND TOTAL	1.458E+05	1.889E+05	1.057E+05	4.411E+06	9.587E+06	8.549E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (10)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	9	6	6	6	9	9	9	6	6	6	9
X MAXIMUM	-1.255E+06	-1.101E+06	-3.895E-04	-6.609E-04	3.421E-02	-2.860E+07	-1.603E+06	-4.672E+05	-3.895E-04	9.558E-03	1.186E-02	1.241E+07
Y	14	8	4	4	4	14	14	14	4	4	4	14
Y MAXIMUM	1.062E+05	-2.546E+04	6.587E-05	3.812E-04	-5.911E-03	-7.535E+06	9.000E+04	-5.822E+04	6.587E-05	-1.426E-03	-2.235E-03	-5.628E+06
Z	4	4	5	10	5	4	4	4	5	5	5	4
Z MAXIMUM	-2.311E-03	-1.494E-03	-1.926E+05	-2.794E+06	1.730E+07	-1.192E-02	-2.726E-03	-3.766E-04	-1.926E+05	4.145E+06	6.563E+06	3.700E-02
GRAND TOTAL	1.269E+06	1.108E+06	2.243E+05	3.066E+06	1.968E+07	3.127E+07	1.614E+06	4.782E+05	2.243E+05	4.236E+06	7.680E+06	1.514E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (10)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	6	6	6	9
X MAXIMUM	-1.650E+06	2.542E+05	-3.895E-04	9.371E-03	-1.271E-02	1.798E+07
Y	14	14	4	4	4	14
Y MAXIMUM	5.695E+04	-9.081E+04	6.587E-05	-1.509E-03	1.860E-03	-1.731E+06
Z	4	4	5	5	5	4
Z MAXIMUM	-2.630E-03	8.113E-04	-1.926E+05	4.401E+06	-5.405E+06	2.563E-02
GRAND TOTAL	1.560E+06	2.836E+05	2.243E+05	4.543E+06	5.926E+06	1.831E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (11)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	3	9	9	9	3	9	3	9	9	9	3
X MAXIMUM	4.872E+04	4.319E+04	4.100E+04	2.030E+06	-3.662E+06	2.219E+06	5.210E+04	3.762E+04	4.100E+04	8.063E+05	-3.296E+06	1.367E+06
Y	14	14	14	12	12	21	14	21	14	12	12	21
Y MAXIMUM	1.360E+04	1.157E+04	1.507E+04	-5.255E+05	9.866E+05	-1.245E+06	1.673E+04	-1.180E+04	1.507E+04	-1.912E+05	9.143E+05	-1.010E+06
Z	5	5	5	5	5	5	5	5	5	5	5	5
Z MAXIMUM	2.848E+04	-1.694E+05	-5.503E+04	-8.330E+06	5.723E+06	-1.390E+07	-3.102E+04	-1.689E+05	-5.503E+04	-6.076E+06	7.095E+06	-1.033E+07
GRAND TOTAL	7.885E+04	2.243E+05	1.057E+05	1.006E+07	9.694E+06	1.733E+07	9.394E+04	2.183E+05	1.057E+05	7.240E+06	1.004E+07	1.270E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (11)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	9	3	9	9

X MAXIMUM 4.923E+04 2.753E+04-4.100E+04 7.102E+05 2.534E+06 1.305E+06
Y 14 21 14 12 12 14
Y MAXIMUM 1.785E+04-1.171E+04-1.507E+04-9.829E+04-7.323E+05 8.312E+05
Z 5 5 5 5 5 5
Z MAXIMUM -8.679E+04-1.482E+05-5.503E+04-3.489E+06 7.616E+06-6.988E+06
GRAND TOTAL 1.458E+05 1.889E+05 1.057E+05 4.411E+06 9.587E+06 8.549E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (12)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	9	17	9	9	9	3	3	9
X MAXIMUM	5.017E+04-2.709E+04	3.807E+04-7.102E+05	2.785E+06-8.536E+05	5.017E+04-2.709E+04	3.807E+04-7.102E+05	1.080E+06-2.244E+06	5.017E+04-2.709E+04	3.807E+04-7.102E+05	1.080E+06-2.244E+06	5.017E+04-2.709E+04	3.807E+04-7.102E+05	1.080E+06-2.244E+06
Y	14	21	14	12	12	14	14	21	14	12	12	14
Y MAXIMUM	2.234E+04-1.044E+04	1.404E+04-9.862E+04	8.196E+05-8.784E+05	2.234E+04-1.044E+04	1.404E+04-9.862E+04	9.161E+05-1.116E+06	2.234E+04-1.044E+04	1.404E+04-9.862E+04	9.161E+05-1.116E+06	2.234E+04-1.044E+04	1.404E+04-9.862E+04	9.161E+05-1.116E+06
Z	5	5	10	5	5	5	5	5	10	5	5	10
Z MAXIMUM	8.745E+04-1.605E+05	3.348E+04-3.485E+06	5.560E+06-8.715E+06	8.745E+04-1.605E+05	3.348E+04-3.485E+06	4.616E+06-1.032E+06	8.745E+04-1.605E+05	3.348E+04-3.485E+06	4.616E+06-1.032E+06	8.745E+04-1.605E+05	3.348E+04-3.485E+06	4.616E+06-1.032E+06
GRAND TOTAL	1.477E+05	2.000E+05	8.052E+04	4.409E+06	7.848E+06	1.021E+07	1.477E+05	2.000E+05	8.052E+04	4.409E+06	7.848E+06	1.021E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (13)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	9	17	9	9	9	3	3	9
X MAXIMUM	5.017E+04-2.709E+04	3.807E+04-7.102E+05	2.785E+06-8.536E+05	5.017E+04-2.709E+04	3.807E+04-7.102E+05	1.080E+06-2.244E+06	5.017E+04-2.709E+04	3.807E+04-7.102E+05	1.080E+06-2.244E+06	5.017E+04-2.709E+04	3.807E+04-7.102E+05	1.080E+06-2.244E+06
Y	14	21	14	12	12	14	14	21	14	12	12	14
Y MAXIMUM	2.234E+04-1.044E+04	1.404E+04-9.862E+04	8.196E+05-8.784E+05	2.234E+04-1.044E+04	1.404E+04-9.862E+04	9.161E+05-1.116E+06	2.234E+04-1.044E+04	1.404E+04-9.862E+04	9.161E+05-1.116E+06	2.234E+04-1.044E+04	1.404E+04-9.862E+04	9.161E+05-1.116E+06
Z	5	5	10	5	5	5	5	5	10	5	5	10
Z MAXIMUM	8.745E+04-1.605E+05	3.348E+04-3.485E+06	5.560E+06-8.715E+06	8.745E+04-1.605E+05	3.348E+04-3.485E+06	4.616E+06-1.032E+06	8.745E+04-1.605E+05	3.348E+04-3.485E+06	4.616E+06-1.032E+06	8.745E+04-1.605E+05	3.348E+04-3.485E+06	4.616E+06-1.032E+06
GRAND TOTAL	1.477E+05	2.000E+05	8.052E+04	4.409E+06	7.848E+06	1.021E+07	1.477E+05	2.000E+05	8.052E+04	4.409E+06	7.848E+06	1.021E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (14)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	9	3	3	9	9	9	3	3	3	3	9
X MAXIMUM	5.159E+04-4.951E+04	3.020E+04-7.102E+05	2.084E+06-9.630E+05	7.149E+04-2.281E+04	3.020E+04-1.904E+06	1.651E+06-2.157E+06	5.159E+04-4.951E+04	3.020E+04-7.102E+05	2.084E+06-9.630E+05	7.149E+04-2.281E+04	3.020E+04-1.904E+06	1.651E+06-2.157E+06
Y	14	14	21	12	12	14	14	14	21	12	12	14
Y MAXIMUM	2.911E+04-1.344E+04	3.581E+03-9.862E+04	3.957E+05-1.403E+06	3.009E+04-1.108E+04	3.581E+03-1.479E+05	1.994E+05-1.462E+06	2.911E+04-1.344E+04	3.581E+03-9.862E+04	3.957E+05-1.403E+06	3.009E+04-1.108E+04	3.581E+03-1.479E+05	1.994E+05-1.462E+06
Z	5	5	5	5	5	5	10	5	5	5	5	5
Z MAXIMUM	8.833E+04-1.107E+05	1.212E+05-3.485E+06	3.559E+06-3.098E+06	4.056E+04-1.407E+05	1.212E+05-7.112E+06	5.195E+06-3.149E+06	8.833E+04-1.107E+05	1.212E+05-3.485E+06	3.559E+06-3.098E+06	4.056E+04-1.407E+05	1.212E+05-7.112E+06	5.195E+06-3.149E+06
GRAND TOTAL	1.506E+05	1.452E+05	1.551E+05	4.409E+06	5.954E+06	4.289E+06	1.164E+05	1.752E+05	1.551E+05	9.492E+06	7.541E+06	5.086E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (14)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	3	3
X MAXIMUM	4.951E+04-5.159E+04	3.020E+04-7.102E+05	2.084E+06-9.630E+05	7.149E+04-2.281E+04	3.020E+04-1.904E+06	1.651E+06-2.157E+06
Y	14	14	21	12	12	14
Y MAXIMUM	1.344E+04-2.911E+04	3.581E+03-9.862E+04	3.957E+05-1.403E+06	3.009E+04-1.108E+04	3.581E+03-1.479E+05	1.994E+05-1.462E+06
Z	5	5	5	5	5	5
Z MAXIMUM	-1.107E+05-8.833E+04	1.212E+05-3.485E+06	3.559E+06-3.098E+06	4.056E+04-1.407E+05	1.212E+05-7.112E+06	5.195E+06-3.149E+06
GRAND TOTAL	1.452E+05	1.506E+05	1.551E+05	1.466E+07	5.194E+06	1.119E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (15)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	9	3	3	9	9	9	3	3	3	3	9
X MAXIMUM	5.159E+04-4.951E+04	3.020E+04-7.102E+05	2.084E+06-9.630E+05	7.149E+04-2.281E+04	3.020E+04-1.904E+06	1.651E+06-2.157E+06	5.159E+04-4.951E+04	3.020E+04-7.102E+05	2.084E+06-9.630E+05	7.149E+04-2.281E+04	3.020E+04-1.904E+06	1.651E+06-2.157E+06
Y	14	14	21	12	12	14	14	14	21	12	12	14
Y MAXIMUM	2.911E+04-1.344E+04	3.581E+03-9.862E+04	3.957E+05-1.403E+06	3.009E+04-1.108E+04	3.581E+03-1.479E+05	1.994E+05-1.462E+06	2.911E+04-1.344E+04	3.581E+03-9.862E+04	3.957E+05-1.403E+06	3.009E+04-1.108E+04	3.581E+03-1.479E+05	1.994E+05-1.462E+06
Z	5	5	5	5	5	5	10	5	5	5	5	5
Z MAXIMUM	-8.833E+04-1.107E+05	1.212E+05-3.485E+06	3.559E+06-3.098E+06	4.056E+04-1.407E+05	1.212E+05-7.112E+06	5.195E+06-3.149E+06	-8.833E+04-1.107E+05	1.212E+05-3.485E+06	3.559E+06-3.098E+06	4.056E+04-1.407E+05	1.212E+05-7.112E+06	5.195E+06-3.149E+06
GRAND TOTAL	1.506E+05	1.452E+05	1.551E+05	4.409E+06	5.954E+06	4.289E+06	1.164E+05	1.752E+05	1.551E+05	9.492E+06	7.541E+06	5.086E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (15)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	3	3
X MAXIMUM	4.951E+04	-5.159E+04	3.020E+04	5.045E+06	1.102E+06	1.511E+06
Y	14	14	21	12	21	14
Y MAXIMUM	1.344E+04	-2.911E+04	-3.5A1E+03	1.834E+05	-3.102E+05	-4.631E+05
Z	5	5	5	5	5	5
Z MAXIMUM	1.107E+05	8.833E+04	-1.212E+05	-1.083E+07	-3.788E+06	-8.842E+06
GRAND TOTAL	1.452E+05	1.506E+05	1.551E+05	1.466E+07	5.194E+06	1.119E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (16)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	3	3	9	9	3	3	3	3
X MAXIMUM	5.167E+04	-5.211E+04	-3.014E+04	-3.038E+06	-1.102E+06	1.525E+06	5.167E+04	-5.211E+04	-3.014E+04	-3.038E+06	-1.814E+06	2.327E+06
Y	14	14	21	12	21	14	14	14	21	12	21	14
Y MAXIMUM	1.472E+04	-3.221E+04	-3.288E+03	-1.832E+05	3.102E+05	-4.636E+05	1.472E+04	-3.221E+04	-3.288E+03	-1.832E+05	2.325E+05	2.972E+05
Z	5	5	5	5	5	5	5	5	5	5	5	5
Z MAXIMUM	-1.107E+05	-8.758E+04	-1.216E+05	-1.079E+07	-3.788E+06	8.890E+06	-1.107E+05	-8.758E+04	-1.216E+05	-1.079E+07	-6.660E+06	1.096E+07
GRAND TOTAL	1.463E+05	1.506E+05	1.549E+05	1.461E+07	5.194E+06	1.125E+07	1.463E+05	1.506E+05	1.549E+05	1.461E+07	8.758E+06	1.404E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (17)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	3	3	9	9	3	3	3	3
X MAXIMUM	5.167E+04	-5.211E+04	3.014E+04	3.038E+06	1.102E+06	1.525E+06	5.167E+04	-5.211E+04	3.014E+04	3.038E+06	1.814E+06	2.327E+06
Y	14	14	21	12	21	14	14	14	21	12	21	14
Y MAXIMUM	1.472E+04	-3.221E+04	3.288E+03	1.832E+05	-3.102E+05	-4.636E+05	1.472E+04	-3.221E+04	3.288E+03	1.832E+05	-2.325E+05	2.972E+05
Z	5	5	5	5	5	5	5	5	5	5	5	5
Z MAXIMUM	1.107E+05	8.758E+04	-1.216E+05	-1.079E+07	-3.788E+06	-8.890E+06	1.107E+05	8.758E+04	-1.216E+05	-1.079E+07	-6.660E+06	-1.096E+07
GRAND TOTAL	1.463E+05	1.506E+05	1.549E+05	1.461E+07	5.194E+06	1.125E+07	1.463E+05	1.506E+05	1.549E+05	1.461E+07	8.758E+06	1.404E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (18)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	9	3	3	3	3	3	9	3	3	9	3
X MAXIMUM	5.385E+04	-5.220E+04	-3.007E+04	-3.048E+06	-1.814E+06	2.313E+06	-2.144E+04	-7.499E+04	-3.007E+04	-3.966E+06	-1.443E+06	3.799E+06
Y	14	14	21	12	21	14	14	14	21	4	21	14
Y MAXIMUM	1.600E+04	-3.424E+04	-9.586E+03	-1.829E+05	2.325E+05	2.977E+05	-1.289E+04	-3.552E+04	-9.586E+03	1.981E+05	-3.249E+05	2.031E+06
Z	5	5	5	5	5	5	5	10	5	5	5	5
Z MAXIMUM	-1.097E+05	-8.661E+04	-1.226E+05	-1.084E+07	-6.660E+06	1.091E+07	-1.388E+05	3.932E+04	-1.226E+05	-1.453E+07	-2.245E+06	1.266E+07
GRAND TOTAL	1.474E+05	1.502E+05	1.586E+05	1.467E+07	8.758E+06	1.398E+07	1.736E+05	1.185E+05	1.586E+05	1.918E+07	3.633E+06	1.767E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (18)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	9	9
X MAXIMUM	-5.218E+04	-5.487E+04	-3.007E+04	-3.618E+06	-2.006E+06	6.750E+06
Y	14	14	21	21	21	14
Y MAXIMUM	-3.423E+04	-1.601E+04	-9.586E+03	-3.424E+05	-6.920E+05	3.312E+06
Z	5	5	5	5	5	5
Z MAXIMUM	-8.665E+04	1.096E+05	-1.226E+05	-1.402E+07	3.484E+06	9.529E+06
GRAND TOTAL	1.502E+05	1.474E+05	1.586E+05	1.803E+07	6.089E+06	1.772E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (19)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	9	3	3	3	3	3	9	3	3	9	3
X MAXIMUM	5.385E+04	-5.220E+04	3.007E+04	3.048E+06	1.814E+06	2.313E+06	-2.144E+04	-7.499E+04	3.007E+04	3.966E+06	1.443E+06	3.799E+06
Y	14	14	21	12	21	14	14	14	21	4	21	14
Y MAXIMUM	1.600E+04	-3.424E+04	9.586E+03	1.829E+05	-2.325E+05	2.977E+05	-1.289E+04	-3.552E+04	9.586E+03	1.981E+05	-3.249E+05	2.031E+06
Z	5	5	5	5	5	5	5	10	5	5	5	5
Z MAXIMUM	1.097E+05	8.661E+04	-1.226E+05	-1.084E+07	-6.660E+06	-1.091E+07	1.388E+05	3.932E+04	-1.226E+05	-1.453E+07	-2.245E+06	-1.266E+07

GRAND TOTAL 1.474E+05 1.502E+05 1.586E+05 1.467E+07 8.758E+06 1.398E+07 1.736E+05 1.185E+05 1.586E+05 1.918E+07 1.633E+06 1.767E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (19)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	9	9
X MAXIMUM	-5.218E+04	-5.187E+04	3.007E+04	3.618E+06	2.006E+06	6.754E+06
Y	14	14	21	21	21	14
Y MAXIMUM	-3.423E+04	-1.601E+04	9.586E+03	3.424E+05	6.920E+05	3.312E+06
Z	5	5	5	5	5	5
Z MAXIMUM	8.665E+04	-1.096E+05	-1.226E+05	-1.402E+07	3.484E+06	-9.529E+06
GRAND TOTAL	1.502E+05	1.474E+05	1.586E+05	1.803E+07	6.089E+06	1.772E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (20)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	9	3	9	9	9	3	9	9
X MAXIMUM	-5.183E+04	-3.116E+04	-4.631E+04	-3.618E+06	-6.601E+06	3.721E+06	-5.183E+04	-3.116E+04	-4.631E+04	-3.618E+06	-9.936E+06	4.706E+06
Y	14	21	14	21	14	14	14	21	14	21	14	14
Y MAXIMUM	-3.422E+04	1.442E+04	-1.133E+04	-3.426E+05	-2.667E+06	1.964E+06	-3.422E+04	1.442E+04	-1.133E+04	-3.426E+05	-3.483E+06	2.807E+06
Z	5	5	10	5	5	5	5	5	10	5	10	5
Z MAXIMUM	-8.672E+04	1.613E+05	2.817E+04	-1.402E+07	-5.510E+06	8.522E+06	-8.672E+04	1.613E+05	2.817E+04	-1.402E+07	-5.280E+06	-3.090E+06
GRAND TOTAL	1.504E+05	2.025E+05	7.548E+04	1.803E+07	1.278E+07	1.338E+07	1.504E+05	2.025E+05	7.548E+04	1.803E+07	1.679E+07	1.068E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (21)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	9	3	9	9	9	3	9	9
X MAXIMUM	-5.183E+04	3.116E+04	-4.631E+04	3.618E+06	-6.601E+06	-3.721E+06	-5.183E+04	3.116E+04	-4.631E+04	3.618E+06	-9.936E+06	-4.706E+06
Y	14	21	14	21	14	14	14	21	14	21	14	14
Y MAXIMUM	-3.422E+04	-1.442E+04	-1.133E+04	3.426E+05	-2.667E+06	-1.964E+06	-3.422E+04	-1.442E+04	-1.133E+04	3.426E+05	-3.483E+06	-2.807E+06
Z	5	5	10	5	5	5	5	5	10	5	10	5
Z MAXIMUM	8.672E+04	1.613E+05	-2.817E+04	-1.402E+07	5.510E+06	8.522E+06	8.672E+04	1.613E+05	-2.817E+04	-1.402E+07	-5.280E+06	-3.090E+06
GRAND TOTAL	1.504E+05	2.025E+05	7.548E+04	1.803E+07	1.278E+07	1.338E+07	1.504E+05	2.025E+05	7.548E+04	1.803E+07	1.679E+07	1.068E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (22)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	17	3	9	3	9	3	17	3	9	3
X MAXIMUM	-1.767E+05	-1.019E+05	9.174E+04	-8.911E+06	1.996E+07	1.719E+07	-1.767E+05	-1.019E+05	9.174E+04	-8.911E+06	3.393E+07	3.554E+07
Y	21	14	12	21	12	14	21	14	12	21	14	4
Y MAXIMUM	1.918E+05	-3.216E+04	4.391E+04	4.855E+05	-9.921E+06	-5.139E+06	1.918E+05	-3.216E+04	4.391E+04	4.855E+05	-2.096E+06	-1.831E+06
Z	5	5	5	5	10	5	5	5	5	5	5	5
Z MAXIMUM	1.198E+05	-2.362E+05	8.041E+04	-2.233E+07	-1.865E+07	6.110E+07	1.198E+05	-2.362E+05	8.041E+04	-2.233E+07	-2.829E+07	1.036E+08
GRAND TOTAL	4.381E+05	3.783E+05	2.745E+05	3.405E+07	4.861E+07	8.571E+07	4.381E+05	3.783E+05	2.745E+05	3.405E+07	6.092E+07	1.472E+08

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (23)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	17	3	9	3	9	3	17	3	9	3
X MAXIMUM	-1.767E+05	1.019E+05	9.174E+04	-8.911E+06	1.996E+07	-1.719E+07	-1.767E+05	1.019E+05	9.174E+04	-8.911E+06	3.393E+07	-3.554E+07
Y	21	14	12	21	12	14	21	14	12	21	14	4
Y MAXIMUM	1.918E+05	3.216E+04	4.391E+04	4.855E+05	-9.921E+06	5.139E+06	1.918E+05	3.216E+04	4.391E+04	4.855E+05	-2.096E+06	1.831E+06
Z	5	5	5	5	10	5	5	5	5	5	5	5
Z MAXIMUM	-1.198E+05	-2.362E+05	-8.041E+04	-2.233E+07	1.865E+07	6.110E+07	-1.198E+05	-2.362E+05	-8.041E+04	-2.233E+07	-2.829E+07	1.036E+08
GRAND TOTAL	4.381E+05	3.783E+05	2.745E+05	3.405E+07	4.861E+07	8.571E+07	4.381E+05	3.783E+05	2.745E+05	3.405E+07	6.092E+07	1.472E+08

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (24)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	9	3	9	3	9	3	9	3	9	3
X MAXIMUM	-1.489E+04	1.934E+05	4.982E+05	-4.537E-07	-6.278E+07	2.437E+07	-1.489E+04	1.934E+05	4.982E+05	-4.537E-07	-6.278E+07	2.437E+07

Y MAXIMUM 1.438E+05 4.107E+04-1.412E+05-7.451E-08 1.779E+07 5.175E+06 1.438E+05 4.107E+04-1.412E+05-7.451E-08 2.861E-06 1.6 6
 Z MAXIMUM 2.827E+04 5.962E+05-3.131E+05-4.292E-06 3.945E+07 7.512E+07 2.827E+04 5.962E+05-3.131E+05-4.292E-06 4.768E-06 3.4 5
 GRAND TOTAL 2.504E+05 8.631E+05 8.302E+05 5.486E-06 1.046E+08 1.088E+08 2.504E+05 8.631E+05 8.302E+05 5.486E-06 1.430E-05 4.623E-05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (25)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	9	3	9	3	9	3	9	3	9	3
X MAXIMUM	-1.489E+04	-1.934E+05	4.982E+05	-1.907E-06	-6.278E+07	-2.437E+07	-1.489E+04	-1.934E+05	4.982E+05	-1.907E-06	-1.717E-05	-6.676E-06
Y	21	12	12	4	12	12	21	12	12	4	14	21
Y MAXIMUM	1.438E+05	-4.107E+04	-1.412E+05	-8.941E-08	1.779E+07	-5.175E+06	1.438E+05	-4.107E+04	-1.412E+05	-8.941E-08	-2.861E-06	-1.848E-06
Z	25	5	10	5	10	5	25	5	10	5	5	5
Z MAXIMUM	-2.827E+04	5.962E+05	3.131E+05	-5.722E-06	-3.945E+07	7.512E+07	-2.827E+04	5.962E+05	3.131E+05	-5.722E-06	-6.676E-06	7.629E-06
GRAND TOTAL	2.504E+05	8.631E+05	8.302E+05	8.045E-06	1.046E+08	1.088E+08	2.504E+05	8.631E+05	8.302E+05	8.045E-06	2.025E-05	1.638E-05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (26)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	3	9	9	9	3	3	3	9
X MAXIMUM	5.636E+05	-2.087E+05	1.067E+05	5.516E+06	-1.253E+07	-3.438E+07	5.636E+05	-2.087E+05	1.067E+05	5.516E+06	-8.686E+06	-2.686E+07
Y	12	12	4	14	4	12	12	12	4	14	4	12
Y MAXIMUM	-2.011E+05	4.481E+04	-5.421E+03	-3.090E+05	6.342E+05	7.406E+06	-2.011E+05	4.481E+04	-5.421E+03	-3.090E+05	4.390E+05	5.792E+06
Z	10	10	5	5	5	10	10	10	5	5	5	10
Z MAXIMUM	-4.056E+05	9.456E+04	3.029E+05	1.692E+07	-3.634E+07	1.619E+07	-4.056E+05	9.456E+04	3.029E+05	1.692E+07	-2.543E+07	1.278E+07
GRAND TOTAL	1.025E+06	2.836E+05	4.368E+05	2.366E+07	5.189E+07	4.678E+07	1.025E+06	2.836E+05	4.368E+05	2.366E+07	3.618E+07	5.657E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (27)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	3	9	9	9	3	3	3	9
X MAXIMUM	5.636E+05	-2.087E+05	1.067E+05	5.516E+06	-1.253E+07	-3.438E+07	5.636E+05	-2.087E+05	1.067E+05	5.516E+06	-8.686E+06	-2.686E+07
Y	12	12	4	14	4	12	12	12	4	14	4	12
Y MAXIMUM	-2.011E+05	4.481E+04	5.421E+03	-3.090E+05	6.342E+05	7.406E+06	-2.011E+05	4.481E+04	5.421E+03	-3.090E+05	4.390E+05	5.792E+06
Z	10	10	5	5	5	10	10	10	5	5	5	10
Z MAXIMUM	4.056E+05	9.456E+04	3.029E+05	1.692E+07	-3.634E+07	-1.619E+07	4.056E+05	9.456E+04	3.029E+05	1.692E+07	-2.543E+07	-1.278E+07
GRAND TOTAL	1.025E+06	2.836E+05	4.368E+05	2.366E+07	5.189E+07	4.678E+07	1.025E+06	2.836E+05	4.368E+05	2.366E+07	3.618E+07	5.657E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (28)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	3	9	9	9	3	3	3	9
X MAXIMUM	5.678E+05	-2.096E+05	1.084E+05	5.525E+06	-8.686E+06	-2.687E+07	5.678E+05	-2.096E+05	1.084E+05	5.525E+06	-1.278E+06	-1.254E+07
Y	12	12	4	14	4	12	12	12	4	14	4	12
Y MAXIMUM	-2.014E+05	4.516E+04	-5.504E+03	-2.833E+05	4.390E+05	5.793E+06	-2.014E+05	4.516E+04	-5.504E+03	-2.833E+05	-2.209E+05	2.706E+06
Z	10	10	5	5	5	10	10	10	5	5	5	10
Z MAXIMUM	-4.067E+05	9.521E+04	3.076E+05	1.690E+07	-2.543E+07	1.279E+07	-4.067E+05	9.521E+04	3.076E+05	1.690E+07	-4.400E+06	6.273E+06
GRAND TOTAL	1.028E+06	2.856E+05	4.433E+05	2.361E+07	5.618E+07	3.660E+07	1.028E+06	2.856E+05	4.433E+05	2.361E+07	5.978E+06	1.710E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (29)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	6	6	6	9	9	9	6	6	6	7
X MAXIMUM	-1.634E+06	2.569E+05	-3.978E-04	9.389E-03	-1.269E-02	1.798E+07	-1.634E+06	2.569E+05	-3.978E-04	9.389E-03	-4.110E-02	-5.900E+05
Y	14	14	4	4	4	14	14	14	4	4	4	14
Y MAXIMUM	5.727E+04	-1.014E+05	6.729E-05	-1.511E-03	1.858E-03	-1.731E+06	5.727E+04	-1.014E+05	6.729E-05	-1.511E-03	6.663E-03	5.507E+06
Z	4	4	5	5	5	4	4	4	5	5	5	4
Z MAXIMUM	-2.633E-03	8.230E-04	-1.967E+05	4.409E+06	-5.399E+06	2.563E-02	-2.633E-03	8.230E-04	-1.967E+05	4.409E+06	-1.945E+07	-3.313E-02
GRAND TOTAL	1.643E+06	2.918E+05	2.224E+05	4.551E+06	5.920E+06	1.831E+07	1.643E+06	2.918E+05	2.224E+05	4.551E+06	2.174E+07	7.021E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (30)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
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	9	9	3	3	3	9	9	9	3	3	3	9
X MAXIMUM	5.678E+05	-2.096E+05	-1.084E+05	-5.525E+06	8.686E+06	-2.687E+07	5.678E+05	-2.096E+05	-1.084E+05	-5.525E+06	1.278E+06	-1.254E+07
Y	12	12	4	4	4	12	12	12	4	4	14	12
Y MAXIMUM	-2.014E+05	4.516E+04	5.504E+03	2.833E+05	-4.390E+05	5.793E+06	-2.014E+05	4.516E+04	5.504E+03	2.833E+05	2.209E+05	2.706E+06
Z	10	10	5	5	5	10	10	10	5	5	5	10
Z MAXIMUM	4.067E+05	-9.527E+04	3.076E+05	1.690E+07	-2.543E+07	-1.279E+07	4.067E+05	-9.527E+04	3.076E+05	1.690E+07	-4.400E+06	-6.273E+06
GRAND TOTAL	1.028E+06	2.856E+05	4.433E+05	2.361E+07	3.618E+07	-3.660E+07	1.028E+06	2.856E+05	4.433E+05	2.361E+07	5.978E+06	1.710E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (31)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	3	9	9	9	3	3	3	9
X MAXIMUM	5.755E+05	-2.127E+05	1.103E+05	5.526E+06	-1.278E+06	-1.254E+07	5.755E+05	-2.127E+05	1.103E+05	5.526E+06	6.264E+06	2.001E+06
Y	12	12	4	4	14	12	12	12	4	4	12	12
Y MAXIMUM	-2.018E+05	4.633E+04	-5.597E+03	-2.833E+05	-2.209E+05	2.706E+06	-2.018E+05	4.633E+04	-5.597E+03	-2.833E+05	3.385E+05	-4.627E+05
Z	10	10	5	5	5	10	10	10	5	5	5	5
Z MAXIMUM	-4.097E+05	9.777E+04	3.134E+05	1.690E+07	-4.400E+06	6.274E+06	-4.097E+05	9.777E+04	3.134E+05	1.690E+07	1.703E+07	-1.591E+06
GRAND TOTAL	1.033E+06	2.918E+05	4.504E+05	2.361E+07	5.978E+07	1.711E+07	1.033E+06	2.918E+05	4.504E+05	2.361E+07	2.498E+07	3.469E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (32)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	6	6	6	7	9	9	6	6	6	9
X MAXIMUM	-1.618E+06	2.589E+05	-3.992E-04	9.389E-03	-4.110E-02	-5.900E+05	-1.618E+06	2.589E+05	-3.992E-04	9.389E-03	-7.344E-02	-2.134E+07
Y	14	14	4	4	14	14	14	14	4	4	4	14
Y MAXIMUM	5.736E+04	-1.053E+05	6.742E-05	-1.511E-03	6.664E-03	5.507E+06	5.736E+04	-1.053E+05	6.742E-05	-1.511E-03	1.212E-02	1.404E+07
Z	4	4	5	5	5	4	4	4	5	5	5	4
Z MAXIMUM	-2.634E-03	8.291E-04	-1.971E+05	4.409E+06	-1.945E+07	-3.313E-02	-2.634E-03	8.291E-04	-1.971E+05	4.409E+06	-3.541E+07	-1.003E-01
GRAND TOTAL	1.628E+06	2.958E+05	2.163E+05	4.551E+06	2.174E+07	7.021E+06	1.628E+06	2.958E+05	2.163E+05	4.551E+06	3.923E+07	2.821E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (33)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	3	9	9	9	3	3	3	9
X MAXIMUM	5.755E+05	-2.127E+05	-1.103E+05	-5.526E+06	1.278E+06	-1.254E+07	5.755E+05	-2.127E+05	-1.103E+05	-5.526E+06	6.264E+06	2.001E+06
Y	12	12	4	4	14	12	12	12	4	4	12	12
Y MAXIMUM	-2.018E+05	4.633E+04	5.597E+03	2.833E+05	2.209E+05	2.706E+06	-2.018E+05	4.633E+04	5.597E+03	2.833E+05	3.385E+05	-4.627E+05
Z	10	10	5	5	5	10	10	10	5	5	5	5
Z MAXIMUM	4.097E+05	-9.777E+04	3.134E+05	1.690E+07	-4.400E+06	6.274E+06	4.097E+05	-9.777E+04	3.134E+05	1.690E+07	1.703E+07	1.591E+06
GRAND TOTAL	1.033E+06	2.918E+05	4.504E+05	2.361E+07	5.978E+06	1.711E+07	1.033E+06	2.918E+05	4.504E+05	2.361E+07	2.498E+07	3.469E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (34)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	3	9	3	9	3	9	9	9	3	9	3
X MAXIMUM	5.808E+05	-1.106E+05	-2.134E+05	5.525E+06	-2.006E+06	6.264E+06	5.667E+05	-1.289E+05	-2.134E+05	5.393E+06	-4.966E+06	7.986E+06
Y	12	4	12	4	12	12	12	14	12	14	12	4
Y MAXIMUM	-2.019E+05	5.608E+03	4.661E+04	-2.831E+05	4.634E+05	3.385E+05	-1.958E+05	-4.944E+04	4.661E+04	-4.522E+05	1.127E+06	-4.072E+05
Z	10	5	10	5	5	5	10	5	10	5	5	5
Z MAXIMUM	-4.121E+05	-3.145E+05	9.883E+04	1.689E+07	1.669E+06	1.703E+07	-3.827E+05	-3.065E+05	9.883E+04	1.681E+07	-2.312E+06	2.190E+07
GRAND TOTAL	1.037E+06	4.509E+05	2.935E+05	2.360E+07	3.539E+06	2.498E+07	1.007E+06	5.141E+05	2.935E+05	2.355E+07	7.823E+06	3.198E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (34)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	9	3
X MAXIMUM	5.145E+05	-2.703E+05	-2.134E+05	4.872E+06	-1.594E+06	9.624E+06
Y	12	12	12	14	12	14
Y MAXIMUM	-1.765E+05	9.811E+04	4.661E+04	-7.740E+05	1.715E+06	1.395E+06
Z	10	5	10	5	5	5
Z MAXIMUM	-3.276E+05	-2.780E+05	9.883E+04	1.571E+07	-6.138E+06	2.644E+07
GRAND TOTAL	9.238E+05	6.514E+05	2.935E+05	2.237E+07	1.393E+07	3.922E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (35)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	3	9	3	9	3	9	9	9	3	9	3
X MAXIMUM	5.808E+05	-1.106E+05	2.134E+05	-5.525E+06	2.006E+06	6.264E+06	5.667E+05	-1.289E+05	2.134E+05	-5.394E+06	4.966E+06	7.986E+06
Y	12	4	12	4	12	12	12	14	12	14	12	4
Y MAXIMUM	-2.019E+05	5.608E+03	-4.661E+04	2.831E+05	-4.634E+05	3.385E+05	-1.958E+05	-4.944E+04	-4.661E+04	4.522E+05	-1.127E+06	-4.072E+05
Z	10	5	10	5	5	5	10	5	10	5	5	5
Z MAXIMUM	4.121E+05	3.145E+05	9.883E+04	1.689E+07	1.669E+06	-1.703E+07	3.827E+05	3.065E+05	9.883E+04	1.681E+07	-2.312E+06	-2.190E+07
GRAND TOTAL	1.037E+06	4.509E+05	2.935E+05	2.360E+07	3.539E+06	2.498E+07	1.007E+06	5.141E+05	2.935E+05	2.355E+07	7.823E+06	3.198E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (35)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	9	3
X MAXIMUM	5.145E+05	-2.703E+05	2.134E+05	-4.872E+06	7.594E+06	9.624E+06
Y	12	12	12	14	12	14
Y MAXIMUM	-1.765E+05	9.811E+04	-4.661E+04	7.740E+05	-1.715E+06	1.395E+06
Z	10	5	10	5	5	5
Z MAXIMUM	3.276E+05	2.780E+05	9.883E+04	1.571E+07	-6.138E+06	-2.649E+07
GRAND TOTAL	9.238E+05	6.514E+05	2.935E+05	2.237E+07	1.393E+07	3.922E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (36)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	3	9	9	9	9	3	9	9
X MAXIMUM	5.160E+05	-2.941E+04	-5.833E+05	4.875E+06	9.624E+06	7.597E+06	5.160E+05	-2.941E+04	-5.833E+05	4.875E+06	7.591E+07	1.153E+07
Y	12	21	12	14	14	12	12	21	12	14	12	21
Y MAXIMUM	-1.766E+05	1.573E+05	-9.174E+04	-7.727E+05	1.395E+06	-1.715E+06	-1.766E+05	1.573E+05	-9.174E+04	-7.727E+05	1.346E+07	-2.032E+07
Z	10	10	10	5	5	5	10	10	10	5	10	10
Z MAXIMUM	-3.292E+05	-4.623E+05	-9.444E+05	1.571E+07	2.649E+07	6.124E+06	-3.292E+05	-4.623E+05	-9.444E+05	1.571E+07	-1.351E+08	5.872E+07
GRAND TOTAL	9.250E+05	6.410E+05	1.192E+06	2.237E+07	3.922E+07	1.392E+07	9.250E+05	6.410E+05	1.192E+06	2.237E+07	1.757E+08	8.263E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (37)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	6	6	6	9	9	9	6	6	6	9
X MAXIMUM	-1.609E+06	3.475E+05	-6.130E-04	9.389E-03	-7.344E-02	-2.134E+07	-1.609E+06	3.475E+05	-6.130E-04	9.389E-03	-1.323E-01	-5.469E+07
Y	14	21	14	4	4	14	14	21	14	4	4	21
Y MAXIMUM	5.737E+04	1.831E+05	-2.465E-04	-1.511E-03	1.213E-02	1.404E+07	5.737E+04	1.831E+05	-2.465E-04	-1.511E-03	2.697E-02	-1.836E+07
Z	4	14	10	5	5	4	4	14	10	5	10	4
Z MAXIMUM	-2.634E-03	-1.457E-05	-1.092E+06	4.409E+06	-3.541E+07	-1.003E-01	-2.634E-03	-1.457E-05	-1.092E+06	4.409E+06	-1.209E+08	-9.890E-02
GRAND TOTAL	1.619E+06	4.833E+05	1.199E+06	4.551E+06	3.923E+07	2.821E+07	1.619E+06	4.833E+05	1.199E+06	4.551E+06	1.461E+08	6.826E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (38)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	3	9	9	9	9	3	9	9
X MAXIMUM	5.160E+05	-2.941E+04	5.833E+05	-4.875E+06	9.624E+06	7.597E+06	5.160E+05	-2.941E+04	5.833E+05	-4.875E+06	7.591E+07	1.153E+07
Y	12	21	12	14	14	12	12	21	12	14	12	21
Y MAXIMUM	-1.766E+05	1.573E+05	9.174E+04	7.727E+05	-1.395E+06	-1.715E+06	-1.766E+05	1.573E+05	9.174E+04	7.727E+05	1.346E+07	-2.032E+07
Z	10	10	10	5	5	5	10	10	10	5	10	10
Z MAXIMUM	3.292E+05	4.623E+05	-9.444E+05	1.571E+07	2.649E+07	6.124E+06	3.292E+05	4.623E+05	-9.444E+05	1.571E+07	-1.351E+08	-5.872E+07
GRAND TOTAL	9.250E+05	6.410E+05	1.192E+06	2.237E+07	3.922E+07	1.392E+07	9.250E+05	6.410E+05	1.192E+06	2.237E+07	1.757E+08	8.263E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (39)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	26	16	9	9	9	16	26	16	9	9	9	9
X MAXIMUM	3.816E-05	-9.431E-05	-1.173E+06	5.637E-06	2.252E+08	-1.811E-02	3.816E-05	-9.431E-05	-1.173E+06	5.637E-06	3.624E-05	-8.435E-06
Y	21	14	13	12	13	14	21	14	13	12	14	21
Y MAXIMUM	-3.262E+05	4.184E-04	-7.551E-04	3.310E-08	1.450E-01	8.034E-02	-3.262E+05	4.184E-04	-7.551E-04	3.310E-08	5.164E-07	1.055E-07
Z	4	10	16	5	16	10	4	10	16	5	5	10

Z MAXIMUM 5.368E-05 1.628E+06-1.563E-05 5.732E-07 3.001E-03 3.125E+08 5.368E-05 1.628E+06-1.563E-05 5.732E-07 1.433E-06 7.629E-06
 GRAND TOTAL 5.980E+05 1.673E+06 1.273E+06 5.952E-06 2.444E+08 3.213E+08 5.980E+05 1.673E+06 1.273E+06 5.952E-06 3.851E-05 1.314E-05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (40)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	26	16	9	9	9	16	26	16	9	9	9	16
X MAXIMUM	-4.115E-05	1.067E-04	1.158E+06-2.530E-05-1.586E+08	1.828E-02-4.115E-05	1.067E-04	1.158E+06-2.530E-05-6.128E+07	9.316E-03	9.316E-03	9.316E-03	9.316E-03	9.316E-03	9.316E-03
Y	21	14	13	13	13	14	21	14	13	13	13	14
Y MAXIMUM	3.544E+05	6.207E-04-2.115E-04	9.981E-08	4.586E-02	9.025E-02	3.544E+05	6.207E-04-2.115E-04	9.981E-08	2.809E-02	3.811E-02	3.811E-02	3.811E-02
Z	4	10	16	10	16	10	4	10	16	10	16	10
Z MAXIMUM	-6.072E-05	1.097E+06	2.052E-05-6.077E-06-7.988E-03	1.418E+08-6.072E-05	1.097E+06	2.052E-05-6.077E-06-1.265E-03	4.970E+07	4.970E+07	4.970E+07	4.970E+07	4.970E+07	4.970E+07
GRAND TOTAL	6.491E+05	1.227E+06	1.323E+06	2.747E-05	1.837E+08	1.642E+08	6.491E+05	1.227E+06	1.323E+06	2.747E-05	7.269E+07	6.189E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (41)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	26	16	9	9	9	16	26	16	9	9	9	16
X MAXIMUM	-1.722E-05	6.378E-05	4.770E+05-9.928E-06-6.128E+07	9.316E-03-1.722E-05	6.378E-05	4.770E+05-9.928E-06-2.694E+07	4.723E-03	4.723E-03	4.723E-03	4.723E-03	4.723E-03	4.723E-03
Y	21	14	13	14	13	14	21	14	13	14	13	14
Y MAXIMUM	1.479E+05	2.842E-04-1.784E-04	1.882E-08	2.809E-02	3.811E-02	1.479E+05	2.842E-04-1.784E-04	1.882E-08	1.525E-02	1.765E-02	1.765E-02	1.765E-02
Z	4	10	16	5	16	10	4	10	16	5	16	10
Z MAXIMUM	-2.502E-05	4.067E+05	9.424E-06-1.786E-06-1.264E-03	4.970E+07-2.502E-05	4.067E+05	9.424E-06-1.786E-06-5.860E-04	2.041E+07	2.041E+07	2.041E+07	2.041E+07	2.041E+07	2.041E+07
GRAND TOTAL	2.710E+05	4.871E+05	5.592E+05	1.057E-05	7.269E+07	6.189E+07	2.710E+05	4.871E+05	5.592E+05	1.057E-05	3.244E+07	2.696E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (42)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	26	16	9	7	9	16	26	16	9	7	9	9
X MAXIMUM	-7.449E-06	3.578E-05	2.041E+05	6.672E-07-2.694E+07	4.723E-03-7.449E-06	3.578E-05	2.041E+05	6.672E-07-1.025E-05	8.773E-06	8.773E-06	8.773E-06	8.773E-06
Y	21	14	13	21	13	14	21	14	13	21	13	21
Y MAXIMUM	6.393E+04	1.337E-04-1.155E-04	2.884E-08	1.525E-02	1.765E-02	6.393E+04	1.337E-04-1.155E-04	2.884E-08	1.135E-05	3.690E-07	3.690E-07	3.690E-07
Z	4	10	16	10	16	10	4	10	16	10	16	10
Z MAXIMUM	-1.074E-05	1.546E+05	4.439E-06-4.667E-07-5.859E-04	2.041E+07-1.074E-05	1.546E+05	4.439E-06-4.667E-07-9.640E-07-2.670E-05	3.229E-05	3.229E-05	3.229E-05	3.229E-05	3.229E-05	3.229E-05
GRAND TOTAL	1.171E+05	2.043E+05	2.458E+05	1.513E-06	3.244E+07	2.696E+07	1.171E+05	2.043E+05	2.458E+05	1.513E-06	1.807E-05	3.229E-05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (43)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	9	9	9	9	9	3	9	9
X MAXIMUM	-5.160E+05-2.941E+04-5.833E+05	4.875E+06	7.591E+07-1.153E+07-5.160E+05-2.941E+04-5.833E+05	4.875E+06-9.624E+06-7.597E+06	4.875E+06	7.597E+06	4.875E+06	7.597E+06	4.875E+06	7.597E+06	4.875E+06	7.597E+06
Y	12	21	12	14	12	21	12	21	12	14	12	12
Y MAXIMUM	-1.766E+05-1.573E+05	9.174E+04	7.727E+05-1.346E+07-2.032E+07-1.766E+05-1.573E+05	9.174E+04	7.727E+05	1.395E+06-1.715E+06	1.395E+06	1.395E+06	1.395E+06	1.395E+06	1.395E+06	1.395E+06
Z	10	10	10	5	10	10	10	10	10	5	10	5
Z MAXIMUM	-3.292E+05	4.623E+05	9.444E+05-1.571E+07-1.351E+08	5.872E+07-3.292E+05	4.623E+05	9.444E+05-1.571E+07-2.649E+07	6.124E+06	6.124E+06	6.124E+06	6.124E+06	6.124E+06	6.124E+06
GRAND TOTAL	9.250E+05	6.410E+05	1.192E+06	2.237E+07	1.757E+08	8.263E+07	9.250E+05	6.410E+05	1.192E+06	2.237E+07	3.922E+07	1.392E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (44)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	6	6	6	9	9	9	6	6	6	9
X MAXIMUM	1.609E+06	3.475E+05-6.130E-04	9.389E-03	1.323E-01	5.469E+07	1.609E+06	3.475E+05-6.130E-04	9.389E-03	7.344E-02	2.154E+07	2.154E+07	2.154E+07
Y	14	21	14	4	14	21	14	21	14	4	14	14
Y MAXIMUM	5.737E+04-1.831E+05	2.466E-04	1.382E-03-2.611E-02-1.836E+07	5.737E+04-1.831E+05	2.466E-04	1.382E-03	1.111E-02	1.404E+07	1.404E+07	1.404E+07	1.404E+07	1.404E+07
Z	4	14	10	5	10	4	4	14	10	5	10	4
Z MAXIMUM	-2.634E-03	1.457E-05	1.092E+06-4.409E+06-1.204E+08-9.890E-02-2.634E-03	1.457E-05	1.092E+06-4.409E+06-3.541E+07-1.003E-01	1.457E-05	1.092E+06-4.409E+06-3.541E+07-1.003E-01	1.457E-05	1.092E+06-4.409E+06-3.541E+07-1.003E-01	1.457E-05	1.092E+06-4.409E+06-3.541E+07-1.003E-01	1.457E-05
GRAND TOTAL	1.619E+06	4.833E+05	1.199E+06	4.551E+06	1.461E+08	6.826E+07	1.619E+06	4.833E+05	1.199E+06	4.551E+06	3.923E+07	2.821E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (45)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	9	9	9	9	9	3	9	9
X MAXIMUM	-5.160E+05-2.941E+04	5.833E+05-4.875E+06-7.591E+07-1.153E+07-5.160E+05-2.941E+04	5.833E+05-4.875E+06-9.624E+06-7.597E+06	4.875E+06	7.597E+06	4.875E+06	7.597E+06	4.875E+06	7.597E+06	4.875E+06	7.597E+06	4.875E+06

Y	12	21	12	14	12	21	12	21	12	14	12	14	12
Y MAXIMUM	-1.766E+05	-1.573E+05	-9.174E+04	-7.727E+05	1.346E+07	-2.032E+07	-1.766E+05	-1.573E+05	-9.174E+04	-7.727E+05	-1.395E+06	-1.71	
Z	10	10	10	5	10	10	10	10	10	5	5		
Z MAXIMUM	3.292E+05	-4.623E+05	9.444E+05	-1.571E+07	-1.351E+08	-5.872E+07	3.292E+05	-4.623E+05	9.444E+05	-1.571E+07	2.649E+07	-6.12E+06	
GRAND TOTAL	9.250E+05	6.410E+05	1.192E+06	2.237E+07	1.757E+08	8.263E+07	9.250E+05	6.410E+05	1.192E+06	2.237E+07	3.922E+07	1.392E+07	

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (46)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	3	9	3	9	3	9	9	9	3	9	3
X MAXIMUM	-5.808E+05	1.106E+05	-2.134E+05	5.525E+06	-2.006E+06	-6.264E+06	-5.667E+05	1.289E+05	-2.134E+05	5.393E+06	-4.966E+06	-7.986E+06
Y	12	4	12	4	12	12	12	14	12	14	12	4
Y MAXIMUM	-2.019E+05	5.608E+03	-4.661E+04	2.831E+05	-4.634E+05	3.385E+05	-1.958E+05	-4.944E+04	-4.661E+04	4.522E+05	-1.127E+06	-4.072E+05
Z	10	5	10	5	5	5	10	5	10	5	5	5
Z MAXIMUM	-4.121E+05	-3.145E+05	-9.883E+04	-1.689E+07	-1.669E+06	1.703E+07	-3.827E+05	-3.065E+05	-9.883E+04	-1.661E+07	2.312E+06	2.190E+07
GRAND TOTAL	1.037E+06	4.509E+05	2.935E+05	2.360E+07	3.539E+06	2.498E+07	1.007E+06	5.141E+05	2.935E+05	2.355E+07	7.823E+06	3.198E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (46)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	9	3
X MAXIMUM	-5.145E+05	2.703E+05	-2.134E+05	4.872E+06	-7.594E+06	-9.624E+06
Y	12	12	12	14	12	14
Y MAXIMUM	-1.765E+05	9.811E+04	-4.661E+04	7.740E+05	-1.715E+06	1.395E+06
Z	10	5	10	5	5	5
Z MAXIMUM	-3.276E+05	-2.780E+05	-9.883E+04	-1.571E+07	6.138E+06	2.649E+07
GRAND TOTAL	9.238E+05	6.514E+05	2.935E+05	2.237E+07	1.393E+07	3.922E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (47)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	3	9	3	9	3	9	9	9	3	9	3
X MAXIMUM	-5.808E+05	1.106E+05	-2.134E+05	5.525E+06	-2.006E+06	-6.264E+06	-5.667E+05	1.289E+05	-2.134E+05	5.393E+06	-4.966E+06	-7.986E+06
Y	12	4	12	4	12	12	12	14	12	14	12	4
Y MAXIMUM	-2.019E+05	5.608E+03	-4.661E+04	2.831E+05	-4.634E+05	3.385E+05	-1.958E+05	-4.944E+04	-4.661E+04	4.522E+05	-1.127E+06	-4.072E+05
Z	10	5	10	5	5	5	10	5	10	5	5	5
Z MAXIMUM	4.121E+05	3.145E+05	-9.883E+04	-1.689E+07	-1.669E+06	-1.703E+07	3.827E+05	3.065E+05	-9.883E+04	-1.681E+07	2.312E+06	-2.190E+07
GRAND TOTAL	1.037E+06	4.509E+05	2.935E+05	2.360E+07	3.539E+06	2.498E+07	1.007E+06	5.141E+05	2.935E+05	2.355E+07	7.823E+06	3.198E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (47)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	9	3
X MAXIMUM	-5.145E+05	2.703E+05	-2.134E+05	4.872E+06	-7.594E+06	-9.624E+06
Y	12	12	12	14	12	14
Y MAXIMUM	-1.765E+05	9.811E+04	-4.661E+04	7.740E+05	-1.715E+06	1.395E+06
Z	10	5	10	5	5	5
Z MAXIMUM	3.276E+05	2.780E+05	-9.883E+04	-1.571E+07	6.138E+06	-2.649E+07
GRAND TOTAL	9.238E+05	6.514E+05	2.935E+05	2.237E+07	1.393E+07	3.922E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (48)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	3	9	9	9	3	3	3	9
X MAXIMUM	-5.755E+05	-2.127E+05	1.103E+05	5.526E+06	-6.264E+06	-2.001E+06	-5.755E+05	-2.127E+05	1.103E+05	5.526E+06	1.278E+06	1.254E+07
Y	12	12	4	4	12	12	12	12	4	4	14	12
Y MAXIMUM	-2.018E+05	-4.633E+04	5.597E+03	2.833E+05	3.385E+05	-4.627E+05	-2.018E+05	-4.633E+04	5.597E+03	2.833E+05	-2.209E+05	2.706E+06
Z	10	10	5	5	5	5	10	10	5	5	5	10
Z MAXIMUM	-4.097E+05	-9.777E+04	-3.134E+05	-1.690E+07	1.703E+07	-1.591E+06	-4.097E+05	-9.777E+04	-3.134E+05	-1.690E+07	-4.400E+06	6.274E+06
GRAND TOTAL	1.033E+06	2.918E+05	4.504E+05	2.361E+07	2.498E+07	3.469E+06	1.033E+06	2.918E+05	4.504E+05	2.361E+07	5.978E+06	1.711E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (49)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	6	6	6	9	9	9	6	6	6	7
X MAXIMUM	1.618E+06	2.589E+05	-3.992E-04	9.389E-03	7.344E-02	2.134E+07	1.618E+06	2.589E+05	-3.992E-04	9.389E-03	4.110E-02	5.900E+05
Y	14	14	4	4	4	14	14	14	4	4	4	14
Y MAXIMUM	5.736E+04	1.053E+05	-6.193E-05	1.382E-03	1.111E-02	1.404E+07	5.736E+04	1.053E+05	-6.193E-05	1.382E-03	6.098E-03	5.507E+06
Z	4	4	5	5	5	4	4	4	5	5	5	4
Z MAXIMUM	-2.634E-03	-8.291E-04	1.971E+05	-4.409E+06	-3.541E+07	-1.003E-01	-2.634E-03	-8.291E-04	1.971E+05	-4.409E+06	-1.945E+07	-3.313E-02
GRAND TOTAL	1.628E+06	2.958E+05	2.163E+05	4.551E+06	3.923E+07	2.821E+07	1.628E+06	2.958E+05	2.163E+05	4.551E+06	2.174E+07	7.021E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (50)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	3	9	9	9	3	3	3	9
X MAXIMUM	-5.755E+05	-2.127E+05	-1.103E+05	-5.526E+06	6.264E+06	-2.001E+06	-5.755E+05	-2.127E+05	-1.103E+05	-5.526E+06	-1.278E+06	1.254E+07
Y	12	12	4	4	12	12	12	12	4	4	14	12
Y MAXIMUM	-2.018E+05	-4.633E+04	-5.597E+03	-2.833E+05	-3.385E+05	-4.627E+05	-2.018E+05	-4.633E+04	-5.597E+03	-2.833E+05	2.209E+05	2.706E+06
Z	10	10	5	5	5	10	10	10	5	5	5	10
Z MAXIMUM	4.097E+05	9.777E+04	-3.134E+05	-1.690E+07	1.703E+07	1.591E+06	4.097E+05	9.777E+04	-3.134E+05	-1.690E+07	-4.400E+06	-6.274E+06
GRAND TOTAL	1.033E+06	2.918E+05	4.504E+05	2.361E+07	2.498E+07	3.469E+06	1.033E+06	2.918E+05	4.504E+05	2.361E+07	5.978E+06	1.711E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (51)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	3	9	9	9	3	3	3	9
X MAXIMUM	-5.678E+05	-2.096E+05	1.084E+05	5.525E+06	1.278E+06	1.254E+07	-5.678E+05	-2.096E+05	1.084E+05	5.525E+06	8.686E+06	2.687E+07
Y	12	12	4	4	14	12	12	12	4	4	4	12
Y MAXIMUM	-2.014E+05	-4.516E+04	5.504E+03	2.833E+05	-2.209E+05	2.706E+06	-2.014E+05	-4.516E+04	5.504E+03	2.833E+05	4.390E+05	5.793E+06
Z	10	10	5	5	5	10	10	10	5	5	5	10
Z MAXIMUM	-4.067E+05	-9.527E+04	-3.076E+05	-1.690E+07	-4.400E+06	6.273E+06	-4.067E+05	-9.527E+04	-3.076E+05	-1.690E+07	-2.543E+07	1.279E+07
GRAND TOTAL	1.028E+06	2.856E+05	4.433E+05	2.361E+07	5.978E+06	1.710E+07	1.028E+06	2.856E+05	4.433E+05	2.361E+07	3.618E+07	3.660E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (52)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	6	6	6	7	9	9	6	6	6	9
X MAXIMUM	1.634E+06	2.569E+05	-3.978E-04	9.389E-03	4.110E-02	5.900E+05	1.634E+06	2.569E+05	-3.978E-04	9.389E-03	1.269E-02	-1.798E+07
Y	14	14	4	4	4	14	14	14	4	4	4	14
Y MAXIMUM	5.727E+04	1.014E+05	-6.182E-05	1.382E-03	6.098E-03	5.507E+06	5.727E+04	1.014E+05	-6.182E-05	1.382E-03	1.684E-03	-1.731E+06
Z	4	4	5	5	5	4	4	4	5	5	5	4
Z MAXIMUM	-2.633E-03	-8.230E-04	1.967E+05	-4.409E+06	-1.945E+07	-3.313E-02	-2.633E-03	-8.230E-04	1.967E+05	-4.409E+06	-5.399E+06	2.563E-02
GRAND TOTAL	1.643E+06	2.918E+05	2.224E+05	4.551E+06	2.174E+07	7.021E+06	1.643E+06	2.918E+05	2.224E+05	4.551E+06	5.920E+06	1.831E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (53)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	3	9	9	9	3	3	3	9
X MAXIMUM	-5.678E+05	-2.096E+05	-1.084E+05	-5.525E+06	-1.278E+06	1.254E+07	-5.678E+05	-2.096E+05	-1.084E+05	-5.525E+06	-8.686E+06	2.687E+07
Y	12	12	4	4	14	12	12	12	4	4	4	12
Y MAXIMUM	-2.014E+05	-4.516E+04	-5.504E+03	-2.833E+05	2.209E+05	2.706E+06	-2.014E+05	-4.516E+04	-5.504E+03	-2.833E+05	4.390E+05	5.793E+06
Z	10	10	5	5	5	10	10	10	5	5	5	10
Z MAXIMUM	4.067E+05	9.527E+04	-3.076E+05	-1.690E+07	-4.400E+06	-6.273E+06	4.067E+05	9.527E+04	-3.076E+05	-1.690E+07	-2.543E+07	-1.279E+07
GRAND TOTAL	1.028E+06	2.856E+05	4.433E+05	2.361E+07	5.978E+06	1.710E+07	1.028E+06	2.856E+05	4.433E+05	2.361E+07	3.618E+07	3.660E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (54)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	3	9	9	9	3	3	3	9
X MAXIMUM	-5.636E+05	-2.087E+05	1.067E+05	5.516E+06	8.686E+06	2.686E+07	-5.636E+05	-2.087E+05	1.067E+05	5.516E+06	1.253E+07	5.438E+07
Y	12	12	4	4	14	12	12	12	4	4	4	12
Y MAXIMUM	-2.011E+05	-4.481E+04	5.421E+03	3.090E+05	4.390E+05	5.792E+06	-2.011E+05	-4.481E+04	5.421E+03	3.090E+05	6.342E+05	7.40E+06
Z	10	10	5	5	5	10	10	10	5	5	5	10
Z MAXIMUM	-4.056E+05	-9.456E+04	-3.029E+05	-1.692E+07	-2.543E+07	1.278E+07	-4.056E+05	-9.456E+04	-3.029E+05	-1.692E+07	-3.634E+07	1.61E+07
GRAND TOTAL	1.025E+06	2.836E+05	4.468E+05	2.366E+07	3.618E+07	3.657E+07	1.025E+06	2.836E+05	4.468E+05	2.366E+07	5.189E+07	4.678E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (55)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	3	9	9	9	3	3	3	9
X MAXIMUM	-5.636E+05	-2.087E+05	-1.067E+05	-5.516E+06	-8.686E+06	2.686E+07	-5.636E+05	-2.087E+05	-1.067E+05	-5.516E+06	-1.253E+07	3.438E+07
Y	12	12	4	14	4	12	12	12	4	14	4	12
Y MAXIMUM	-2.011E+05	-4.481E+04	-5.421E+03	-3.090E+05	-4.390E+05	5.792E+06	-2.011E+05	-4.481E+04	-5.421E+03	-3.090E+05	-6.342E+05	7.406E+06
Z	10	10	5	5	5	10	10	10	5	5	5	10
Z MAXIMUM	4.056E+05	9.456E+04	-3.029E+05	-1.692E+07	-2.543E+07	-1.278E+07	4.056E+05	9.456E+04	-3.029E+05	-1.692E+07	-3.634E+07	-1.619E+07
GRAND TOTAL	1.025E+06	2.836E+05	4.368E+05	2.366E+07	3.618E+07	3.657E+07	1.025E+06	2.836E+05	4.368E+05	2.366E+07	5.189E+07	4.678E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (56)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	9	0	9	3	9	3	9	0	9	3
X MAXIMUM	1.489E+04	1.934E+05	4.982E+05	0.	2.444E+06	2.384E+06	1.489E+04	1.934E+05	4.982E+05	0.	6.278E+07	-2.437E+07
Y	21	12	12	0	14	12	21	12	12	0	12	12
Y MAXIMUM	1.438E+05	-4.107E+04	1.412E+05	0.	-4.247E+07	1.527E+07	1.438E+05	-4.107E+04	1.412E+05	0.	1.779E+07	5.175E+06
Z	25	5	10	0	5	15	25	5	10	0	10	5
Z MAXIMUM	2.827E+04	-5.962E+05	3.131E+05	0.	3.159E+06	-2.012E+07	2.827E+04	-5.962E+05	3.131E+05	0.	3.945E+07	7.512E+07
GRAND TOTAL	2.504E+05	8.631E+05	8.302E+05	0.	6.551E+06	2.906E+06	2.504E+05	8.631E+05	8.302E+05	0.	1.046E+08	1.088E+08

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (57)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	9	0	9	9	9	3	9	0	9	3
X MAXIMUM	1.489E+04	-1.934E+05	4.982E+05	0.	3.815E+06	8.941E+07	1.489E+04	-1.934E+05	4.982E+05	0.	6.278E+07	2.437E+07
Y	21	12	12	0	12	12	21	12	12	0	12	12
Y MAXIMUM	1.438E+05	4.107E+04	1.412E+05	0.	-1.118E+06	1.267E+07	1.438E+05	4.107E+04	1.412E+05	0.	1.779E+07	-5.175E+06
Z	25	5	10	0	10	5	25	5	10	0	10	5
Z MAXIMUM	-2.827E+04	-5.962E+05	-3.131E+05	0.	-1.162E+06	1.431E+06	-2.827E+04	-5.962E+05	-3.131E+05	0.	-3.945E+07	7.512E+07
GRAND TOTAL	2.504E+05	8.631E+05	8.302E+05	0.	4.669E+06	3.115E+06	2.504E+05	8.631E+05	8.302E+05	0.	1.046E+08	1.088E+08

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (58)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	17	3	9	3	9	3	17	3	9	3
X MAXIMUM	1.767E+05	-1.019E+05	9.174E+04	-8.911E+06	-3.393E+07	-3.550E+07	1.767E+05	-1.019E+05	9.174E+04	-8.911E+06	-1.996E+07	-1.719E+07
Y	21	14	12	21	14	4	21	14	12	21	12	14
Y MAXIMUM	1.918E+05	3.216E+04	-4.391E+04	-4.855E+05	2.096E+06	-1.831E+06	1.918E+05	3.216E+04	-4.391E+04	-4.855E+05	-9.921E+06	-5.139E+06
Z	5	5	5	5	5	5	5	5	5	5	10	5
Z MAXIMUM	1.198E+05	2.362E+05	-8.041E+04	2.233E+07	2.829E+07	1.036E+08	1.198E+05	2.362E+05	-8.041E+04	2.233E+07	-1.865E+07	6.110E+07
GRAND TOTAL	4.381E+05	3.783E+05	2.745E+05	3.405E+07	6.092E+07	1.472E+08	4.381E+05	3.783E+05	2.745E+05	3.405E+07	4.861E+07	8.571E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (59)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	17	3	9	3	9	3	17	3	9	3
X MAXIMUM	1.767E+05	1.019E+05	9.174E+04	8.911E+06	-3.393E+07	3.554E+07	1.767E+05	1.019E+05	9.174E+04	8.911E+06	-1.996E+07	1.719E+07
Y	21	14	12	21	14	4	21	14	12	21	12	14
Y MAXIMUM	1.918E+05	-3.216E+04	-4.391E+04	4.855E+05	2.096E+06	1.831E+06	1.918E+05	-3.216E+04	-4.391E+04	4.855E+05	-9.921E+06	5.139E+06
Z	5	5	5	5	5	5	5	5	5	5	10	5
Z MAXIMUM	-1.198E+05	2.362E+05	8.041E+04	2.233E+07	-2.829E+07	1.036E+08	-1.198E+05	2.362E+05	8.041E+04	2.233E+07	1.865E+07	6.110E+07
GRAND TOTAL	4.381E+05	3.783E+05	2.745E+05	3.405E+07	6.092E+07	1.472E+08	4.381E+05	3.783E+05	2.745E+05	3.405E+07	4.861E+07	8.571E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (60)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	9	9	9	9	9	3	9	3
X MAXIMUM	5.183E+04	-3.116E+04	-4.631E+04	-3.618E+06	9.936E+06	-4.706E+06	5.183E+04	-3.116E+04	-4.631E+04	-3.618E+06	6.601E+06	-3.721E+06
Y	14	21	14	21	14	14	14	21	14	21	14	14
Y MAXIMUM	-3.422E+04	-1.442E+04	1.133E+04	3.426E+05	-3.483E+06	2.807E+06	-3.422E+04	-1.442E+04	1.133E+04	3.426E+05	-2.667E+06	1.964E+06

Z 5 5 10 5 10 5 5 5 10 5 5 5
 Z MAXIMUM -8.672E+04-1.613E+05-2.817E+04 1.402E+07 5.280E+06-3.090E+06-8.672E+04-1.613E+05-2.817E+04 1.402E+07-5.510E+06 8.522E+06
 GRAND TOTAL 1.504E+05 2.025E+05 7.548E+04 1.803E+07 1.579E+07 1.068E+07 1.504E+05 2.025E+05 7.548E+04 1.803E+07 1.278E+07 1.338E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (61)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	9	9	9	9	9	3	9	3
X MAXIMUM	5.183E+04	3.116E+04	-4.631E+04	3.618E+06	9.936E+06	4.706E+06	5.183E+04	3.116E+04	-4.631E+04	3.618E+06	6.601E+06	3.721E+06
Y	14	21	14	21	14	14	14	21	14	21	14	14
Y MAXIMUM	-3.422E+04	1.442E+04	1.133E+04	-3.426E+05	-3.483E+06	-2.807E+06	-3.422E+04	1.442E+04	1.133E+04	-3.426E+05	-2.667E+06	-1.964E+06
Z	5	5	10	5	10	5	5	5	10	5	5	5
Z MAXIMUM	8.672E+04-1.613E+05	2.817E+04	1.402E+07-5.280E+06-3.090E+06	8.672E+04-1.613E+05	2.817E+04	1.402E+07	5.510E+06	8.522E+06				
GRAND TOTAL	1.504E+05	2.025E+05	7.548E+04	1.803E+07	1.579E+07	1.068E+07	1.504E+05	2.025E+05	7.548E+04	1.803E+07	1.278E+07	1.338E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (62)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	9	3	3	3	3	9	9	3	3	9	3
X MAXIMUM	-5.385E+04	5.220E+04-3.007E+04-3.048E+06-1.814E+06-2.313E+06	2.144E+04	7.499E+04-3.007E+04-3.966E+06-1.443E+06-3.799E+06								
Y	14	14	21	12	21	14	14	21	14	21	14	14
Y MAXIMUM	1.600E+04-3.424E+04	9.586E+03	1.829E+05-2.325E+05	2.977E+05-1.289E+04-3.552E+04	9.586E+03-1.981E+05	3.249E+05	2.031E+06					
Z	5	5	5	5	5	5	10	5	5	5	5	5
Z MAXIMUM	-1.097E+05-8.661E+04	1.226E+05	1.084E+07	6.660E+06	1.091E+07-1.388E+05	3.932E+04	1.226E+05	1.453E+07	2.245E+06	1.266E+07		
GRAND TOTAL	1.474E+05	1.502E+05	1.586E+05	1.467E+07	8.758E+06	1.398E+07	1.736E+05	1.185E+05	1.586E+05	1.918E+07	3.633E+06	1.767E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (62)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	9	9
X MAXIMUM	5.218E+04	5.387E+04-3.007E+04-3.618E+06-2.006E+06-6.754E+06				
Y	14	14	21	21	21	14
Y MAXIMUM	-3.423E+04-1.601E+04	9.586E+03	3.424E+05	6.920E+05	3.312E+06	
Z	5	5	5	5	5	5
Z MAXIMUM	-8.665E+04	1.096E+05	1.226E+05	1.402E+07-3.484E+06	9.529E+06	
GRAND TOTAL	1.502E+05	1.474E+05	1.586E+05	1.803E+07	6.089E+06	1.772E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (63)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	9	3	3	3	3	9	9	3	3	9	3
X MAXIMUM	-5.385E+04	5.220E+04	3.007E+04	3.048E+06	1.814E+06-2.313E+06	2.144E+04	7.499E+04	3.007E+04	5.966E+06	1.443E+06-3.799E+06		
Y	14	14	21	12	21	14	14	21	14	21	14	14
Y MAXIMUM	1.600E+04-3.424E+04	-9.586E+03-1.829E+05-2.325E+05	2.977E+05-1.289E+04-3.552E+04	-9.586E+03	1.981E+05-3.249E+05	2.031E+06						
Z	5	5	5	5	5	5	10	5	5	5	5	5
Z MAXIMUM	1.097E+05	8.661E+04	1.226E+05	1.084E+07	6.660E+06-1.091E+07	1.388E+05-3.932E+04	1.226E+05	1.453E+07	2.245E+06-1.266E+07			
GRAND TOTAL	1.474E+05	1.502E+05	1.586E+05	1.467E+07	8.758E+06	1.398E+07	1.736E+05	1.185E+05	1.586E+05	1.918E+07	3.633E+06	1.767E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (63)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	9	9
X MAXIMUM	5.218E+04	5.387E+04	3.007E+04	3.618E+06	2.006E+06-6.754E+06	
Y	14	14	21	21	21	14
Y MAXIMUM	-3.423E+04-1.601E+04	-9.586E+03-3.424E+05	-6.920E+05	3.312E+06		
Z	5	5	5	5	5	5
Z MAXIMUM	8.665E+04-1.096E+05	1.226E+05	1.402E+07-3.484E+06	-9.529E+06		
GRAND TOTAL	1.502E+05	1.474E+05	1.586E+05	1.803E+07	6.089E+06	1.772E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (64)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	9	9	9	9	3	3	9	3

X MAXIMUM -5.167E+04-5.211E+04-3.014E+04-3.038E+06 1.814E+06-2.327E+06-5.167E+04-5.211E+04-3.014E+04-3.038E+06 1.102E+06-1.525E+06
 Y MAXIMUM 1.472E+04 3.221E+04 3.288E+03 1.832E+05 2.325E+05 2.972E+05 1.472E+04 3.221E+04 3.288E+03 1.832E+05 3.102E+05-4.636E+05
 Z MAXIMUM -1.107E+05 8.758E+04 1.216E+05 1.079E+07-6.660E+06 1.096E+07-1.107E+05 8.758E+04 1.216E+05 1.079E+07-6.788E+06 8.890E+06
 GRAND TOTAL 1.463E+05 1.506E+05 1.549E+05 1.461E+07 8.758E+06 1.404E+07 1.463E+05 1.506E+05 1.549E+05 1.461E+07 5.194E+06 1.125E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (65)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	3	3	9	9	3	3	3	3
X MAXIMUM	-5.167E+04	-5.211E+04	3.014E+04	3.038E+06	-1.814E+06	-2.327E+06	-5.167E+04	-5.211E+04	3.014E+04	3.038E+06	-1.102E+06	-1.525E+06
Y	14	14	21	12	21	14	14	14	21	12	21	14
Y MAXIMUM	1.472E+04	3.221E+04	3.288E+03	1.832E+05	2.325E+05	2.972E+05	1.472E+04	3.221E+04	3.288E+03	1.832E+05	3.102E+05	4.636E+05
Z	5	5	5	5	5	5	5	5	5	5	5	5
Z MAXIMUM	1.107E+05	8.758E+04	1.216E+05	1.079E+07	-6.660E+06	-1.096E+07	1.107E+05	8.758E+04	1.216E+05	1.079E+07	-6.788E+06	-8.890E+06
GRAND TOTAL	1.463E+05	1.506E+05	1.549E+05	1.461E+07	8.758E+06	1.404E+07	1.463E+05	1.506E+05	1.549E+05	1.461E+07	5.194E+06	1.125E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (66)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	9	3	3	9	9	9	3	3	3	3	9
X MAXIMUM	-5.159E+04	-4.951E+04	-3.020E+04	-7.102E+05	2.084E+06	9.630E+05	-7.149E+04	2.281E+04	-3.020E+04	-1.904E+06	-1.651E+06	2.157E+06
Y	14	14	21	12	12	14	14	14	21	12	12	14
Y MAXIMUM	2.911E+04	1.344E+04	-3.581E+03	9.862E+04	3.957E+05	-1.403E+06	3.009E+04	-1.108E+04	-3.581E+03	1.479E+05	1.994E+05	-1.462E+06
Z	5	5	5	5	5	10	5	5	5	5	5	5
Z MAXIMUM	8.833E+04	-1.107E+05	1.212E+05	3.485E+06	3.559E+06	3.098E+06	-4.056E+04	-1.407E+05	1.212E+05	7.112E+06	5.195E+06	3.149E+06
GRAND TOTAL	1.506E+05	1.452E+05	1.551E+05	4.409E+06	5.954E+06	4.289E+06	1.164E+05	1.752E+05	1.551E+05	9.492E+06	7.541E+06	5.086E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (66)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	3	3
X MAXIMUM	-4.951E+04	5.159E+04	-3.020E+04	-3.045E+06	-1.102E+06	-1.511E+06
Y	14	14	21	12	21	14
Y MAXIMUM	1.344E+04	-2.911E+04	-3.581E+03	1.834E+05	-3.102E+05	-4.631E+05
Z	5	5	5	5	5	5
Z MAXIMUM	-1.107E+05	8.833E+04	1.212E+05	1.083E+07	3.788E+06	8.842E+06
GRAND TOTAL	1.452E+05	1.506E+05	1.551E+05	1.466E+07	5.194E+06	1.119E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (67)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	9	3	3	9	9	9	3	3	3	3	9
X MAXIMUM	-5.159E+04	-4.951E+04	3.020E+04	7.102E+05	-2.084E+06	9.630E+05	-7.149E+04	2.281E+04	3.020E+04	-1.904E+06	-1.651E+06	2.157E+06
Y	14	14	21	12	12	14	14	14	21	12	12	14
Y MAXIMUM	2.911E+04	1.344E+04	3.581E+03	9.862E+04	3.957E+05	-1.403E+06	3.009E+04	-1.108E+04	3.581E+03	1.479E+05	1.994E+05	-1.462E+06
Z	5	5	5	5	5	10	5	5	5	5	5	5
Z MAXIMUM	8.833E+04	-1.107E+05	1.212E+05	3.485E+06	3.559E+06	3.098E+06	-4.056E+04	-1.407E+05	1.212E+05	7.112E+06	5.195E+06	3.149E+06
GRAND TOTAL	1.506E+05	1.452E+05	1.551E+05	4.409E+06	5.954E+06	4.289E+06	1.164E+05	1.752E+05	1.551E+05	9.492E+06	7.541E+06	5.086E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (67)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	3	3
X MAXIMUM	-4.951E+04	5.159E+04	3.020E+04	3.045E+06	1.102E+06	-1.511E+06
Y	14	14	21	12	21	14
Y MAXIMUM	1.344E+04	-2.911E+04	3.581E+03	1.834E+05	-3.102E+05	-4.631E+05
Z	5	5	5	5	5	5
Z MAXIMUM	1.107E+05	8.833E+04	1.212E+05	1.083E+07	3.788E+06	8.842E+06
GRAND TOTAL	1.452E+05	1.506E+05	1.551E+05	1.466E+07	5.194E+06	1.119E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (68)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	3	9	9	9	9	3	9	17
X MAXIMUM	-5.017E+04	-2.709E+04	3.807E+04	-7.102E+05	-1.089E+06	-2.244E+06	-5.017E+04	-2.709E+04	3.807E+04	-7.102E+05	-2.785E+06	-8.536E+05
Y	14	21	14	12	14	14	14	21	14	12	12	14
Y MAXIMUM	2.234E+04	1.044E+04	-1.404E+04	-9.862E+04	9.161E+05	1.116E+06	2.234E+04	1.044E+04	-1.404E+04	-9.862E+04	8.196E+05	8.784E+05
Z	5	5	10	5	5	10	5	5	10	5	5	5
Z MAXIMUM	8.745E+04	-1.605E+05	3.348E+04	3.485E+06	4.616E+06	-1.032E+06	8.745E+04	-1.605E+05	3.348E+04	3.485E+06	5.560E+06	8.715E+06
GRAND TOTAL	1.477E+05	2.000E+05	8.052E+04	4.409E+06	6.287E+06	3.924E+06	1.477E+05	2.000E+05	8.052E+04	4.409E+06	7.848E+06	1.021E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (69)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	3	9	9	9	9	3	9	17
X MAXIMUM	-5.017E+04	-2.709E+04	3.807E+04	-7.102E+05	-1.089E+06	-2.244E+06	-5.017E+04	-2.709E+04	3.807E+04	-7.102E+05	-2.785E+06	-8.536E+05
Y	14	21	14	12	14	14	14	21	14	12	12	14
Y MAXIMUM	2.234E+04	-1.044E+04	-1.404E+04	-9.862E+04	9.161E+05	-1.116E+06	2.234E+04	-1.044E+04	-1.404E+04	-9.862E+04	8.196E+05	-8.784E+05
Z	5	5	10	5	5	10	5	5	10	5	5	5
Z MAXIMUM	-8.745E+04	-1.605E+05	-3.348E+04	3.485E+06	-4.616E+06	-1.032E+06	-8.745E+04	-1.605E+05	-3.348E+04	3.485E+06	-5.560E+06	-8.715E+06
GRAND TOTAL	1.477E+05	2.000E+05	8.052E+04	4.409E+06	6.287E+06	3.924E+06	1.477E+05	2.000E+05	8.052E+04	4.409E+06	7.848E+06	1.021E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (70)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	3	9	9	9	3	9	3	9	9	9	3
X MAXIMUM	-4.872E+04	-4.319E+04	4.100E+04	2.030E+06	-3.662E+06	-2.219E+06	-5.210E+04	-3.762E+04	4.100E+04	8.063E+05	-3.296E+06	-1.367E+06
Y	14	14	14	12	12	21	14	21	14	12	12	21
Y MAXIMUM	1.360E+04	1.157E+04	-1.507E+04	5.255E+05	-9.865E+05	-1.245E+06	1.673E+04	-1.180E+04	-1.507E+04	1.912E+05	-9.143E+05	-1.010E+06
Z	5	5	5	5	5	5	5	5	5	5	5	5
Z MAXIMUM	-2.848E+04	1.694E+05	5.503E+04	8.330E+06	-5.723E+06	1.390E+07	3.102E+04	1.689E+05	5.503E+04	6.076E+06	-7.095E+06	1.033E+07
GRAND TOTAL	7.885E+04	2.243E+05	1.057E+05	1.006E+07	9.699E+06	1.733E+07	9.394E+04	2.183E+05	1.057E+05	7.240E+06	1.004E+07	1.270E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (70)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	9	3	9	9
X MAXIMUM	-4.923E+04	-2.753E+04	4.100E+04	-7.102E+05	-2.534E+06	-1.305E+06
Y	14	21	14	12	12	14
Y MAXIMUM	1.785E+04	-1.171E+04	-1.507E+04	-9.829E+04	-7.323E+05	8.312E+05
Z	5	5	5	5	5	5
Z MAXIMUM	8.679E+04	1.482E+05	5.503E+04	3.489E+06	-7.616E+06	6.988E+06
GRAND TOTAL	1.458E+05	1.889E+05	1.057E+05	4.411E+06	9.587E+06	8.549E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (71)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	9	6	6	6	9	9	9	6	6	6	9
X MAXIMUM	1.255E+06	1.101E+06	-3.895E-04	-6.609E-04	3.421E-02	2.860E+07	1.603E+06	4.672E+05	-3.895E-04	9.558E-03	1.186E-02	-1.241E+07
Y	14	8	4	4	4	14	14	14	4	4	4	14
Y MAXIMUM	1.062E+05	-2.546E+04	-6.051E-05	-3.721E-04	5.441E-03	7.535E+06	9.000E+04	-5.822E+04	-6.051E-05	1.294E-03	2.072E-03	-5.628E+06
Z	4	4	5	10	5	4	4	4	5	5	5	4
Z MAXIMUM	-2.311E-03	-1.494E-03	1.926E+05	2.794E+06	-1.730E+07	-1.192E-02	-2.726E-03	-3.766E-04	1.926E+05	-4.145E+06	-6.563E+06	3.700E-02
GRAND TOTAL	1.269E+06	1.108E+06	2.243E+05	3.066E+06	1.968E+07	3.127E+07	1.614E+06	4.782E+05	2.243E+05	4.236E+06	1.680E+06	1.514E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (71)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	6	6	6	9
X MAXIMUM	1.650E+06	-2.542E+05	-3.895E-04	9.371E-03	-1.271E-02	-1.798E+07
Y	14	14	4	4	4	14
Y MAXIMUM	5.695E+04	-9.081E+04	-6.051E-05	1.380E-03	-1.686E-03	-1.731E+06
Z	4	4	5	5	5	4
Z MAXIMUM	-2.630E-03	8.114E-04	1.926E+05	-4.401E+06	5.405E+06	2.563E-02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (72)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	
1	9	3	9	9	9	3	9	3	9	9	9	3
X MAXIMUM	-4.872E+04	-4.319E+04	-4.100E+04	-2.030E+06	5.662E+06	-2.219E+06	-5.210E+04	-3.762E+04	-4.100E+04	-8.063E+05	3.296E+06	-1.367E+06
Y	14	14	14	12	12	21	14	21	14	12	12	21
Y MAXIMUM	1.360E+04	1.157E+04	1.507E+04	5.255E+05	9.866E+05	-1.245E+06	1.673E+04	-1.180E+04	1.507E+04	-1.912E+05	9.143E+05	-1.010E+06
Z	5	5	5	5	5	5	5	5	5	5	5	5
Z MAXIMUM	2.848E+04	-1.694E+05	5.503E+04	8.330E+06	-5.723E+06	-1.390E+07	-3.102E+04	-1.689E+05	5.503E+04	6.076E+06	-7.095E+06	-1.033E+07
GRAND TOTAL	7.885E+04	2.243E+05	1.057E+05	1.006E+07	9.694E+06	-1.733E+07	9.394E+04	2.183E+05	1.057E+05	7.240E+06	1.004E+07	1.270E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (72)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	9	3	9	9
X MAXIMUM	-4.923E+04	-2.753E+04	-4.100E+04	7.102E+05	2.534E+06	-1.305E+06
Y	14	21	14	12	12	14
Y MAXIMUM	1.785E+04	-1.171E+04	1.507E+04	9.829E+04	7.323E+05	8.312E+05
Z	5	5	5	5	5	5
Z MAXIMUM	-8.679E+04	-1.482E+05	5.503E+04	3.489E+06	-7.616E+06	-6.988E+06
GRAND TOTAL	1.458E+05	1.889E+05	1.057E+05	4.411E+06	9.587E+06	8.549E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (73)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	9	9	9	3	9	3	9	9	9	3
X MAXIMUM	-4.856E+04	-4.320E+04	-3.986E+04	2.034E+06	-3.658E+06	2.220E+06	-4.856E+04	-4.320E+04	-3.986E+04	2.034E+06	-7.254E+06	6.116E+06
Y	14	21	14	12	12	21	14	21	14	12	12	21
Y MAXIMUM	1.211E+04	-1.050E+04	1.523E+04	5.264E+05	-9.854E+05	1.245E+06	1.211E+04	-1.050E+04	1.523E+04	5.264E+05	-1.833E+06	2.193E+06
Z	5	5	5	5	5	5	5	5	5	5	5	5
Z MAXIMUM	-2.807E+04	1.682E+05	-5.459E+04	8.347E+06	-5.724E+06	-1.389E+07	-2.807E+04	1.682E+05	-5.459E+04	8.347E+06	-1.065E+07	-2.907E+07
GRAND TOTAL	7.817E+04	2.231E+05	1.048E+05	1.008E+07	9.689E+06	1.732E+07	7.817E+04	2.231E+05	1.048E+05	1.008E+07	1.908E+07	3.742E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (74)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	6	6	6	9	9	9	6	6	6	9
X MAXIMUM	1.258E+06	-1.108E+06	-3.803E-04	-7.064E-04	-3.421E-02	2.860E+07	1.258E+06	-1.108E+06	-3.803E-04	-7.064E-04	-6.096E-02	1.065E+08
Y	14	8	4	4	4	14	14	8	4	4	4	14
Y MAXIMUM	9.959E+04	2.544E+04	-5.899E-05	-3.794E-04	-5.441E-03	-7.535E+06	9.959E+04	2.544E+04	-5.899E-05	-3.794E-04	-9.590E-03	-8.103E+06
Z	4	4	5	10	5	4	4	4	5	10	5	4
Z MAXIMUM	-2.300E-03	1.504E-03	1.878E+05	2.806E+06	1.730E+07	-1.192E-02	-2.300E-03	1.504E-03	1.878E+05	2.806E+06	3.051E+07	-1.177E-01
GRAND TOTAL	1.271E+06	1.115E+06	2.213E+05	3.085E+06	1.968E+07	3.127E+07	1.271E+06	1.115E+06	2.213E+05	3.085E+06	3.521E+07	1.082E+08

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (75)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	9	9	9	3	9	3	9	9	9	3
X MAXIMUM	-4.856E+04	-4.320E+04	-3.986E+04	2.034E+06	-3.658E+06	2.220E+06	-4.856E+04	-4.320E+04	-3.986E+04	2.034E+06	-7.254E+06	6.116E+06
Y	14	21	14	12	12	21	14	21	14	12	12	21
Y MAXIMUM	1.211E+04	-1.050E+04	1.523E+04	5.264E+05	-9.854E+05	1.245E+06	1.211E+04	-1.050E+04	1.523E+04	5.264E+05	-1.833E+06	2.193E+06
Z	5	5	5	5	5	5	5	5	5	5	5	5
Z MAXIMUM	2.807E+04	1.682E+05	-5.459E+04	8.347E+06	-5.724E+06	-1.389E+07	2.807E+04	1.682E+05	-5.459E+04	8.347E+06	-1.065E+07	-2.907E+07
GRAND TOTAL	7.817E+04	2.231E+05	1.048E+05	1.008E+07	9.689E+06	1.732E+07	7.817E+04	2.231E+05	1.048E+05	1.008E+07	1.908E+07	3.742E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (76)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	6	9	6	9	6	9	6	9	6	9	6
X MAXIMUM	-3.281E+05	8.878E-04	1.808E+05	3.637E-02	-1.603E+07	7.590E-02	-3.281E+05	8.878E-04	1.808E+05	3.637E-02	3.388E+07	-1.691E-01
Y	14	4	14	4	14	4	14	4	14	4	14	4

Y MAXIMUM 9.052E+05 1.463E-04 1.059E+04 6.181E-03-1.142E+06 1.250E-02 9.052E+05 1.463E-04 1.059E+04 6.181E-03 1.781E+06-2.786E-02
 Z 4 5 4 5 4 5 4 5 4 5 4 5
 Z MAXIMUM -5.690E-03-4.644E+05 1.644E-04-1.960E+07-1.062E-02-3.970E+07-5.690E-03-4.644E+05 1.644E-04-1.960E+07 3.476E-02 8.846E+07
 GRAND TOTAL 1.172E+06 4.699E+05 2.314E+05 2.121E+07 2.025E+07 4.017E+07 1.172E+06 4.699E+05 2.314E+05 2.121E+07 4.364E+07 8.952E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (77)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	6	9	6	9	6	9	6	9	6	9	6
X MAXIMUM	-1.560E+05	1.754E-03	-1.457E+06	5.151E-14	-3.783E+07	-3.340E-01	-1.560E+05	1.754E-03	-1.457E+06	5.151E-14	-3.200E+08	-6.498E-01
Y	14	4	14	4	14	4	14	4	14	4	8	4
Y MAXIMUM	9.202E+05	2.876E-04	-8.384E+04	8.882E-15	-5.247E+06	-5.487E-02	9.202E+05	2.876E-04	-8.384E+04	8.882E-15	1.099E+07	-1.066E-01
Z	4	5	4	5	4	5	4	5	4	5	4	5
Z MAXIMUM	-1.084E-03	-9.134E+05	8.796E-04	-2.384E-05	-5.204E-02	1.742E+08	-1.084E-03	-9.134E+05	8.796E-04	-2.384E-05	1.063E-01	3.386E+08
GRAND TOTAL	1.136E+06	9.273E+05	1.494E+06	2.519E-05	7.883E+07	1.756E+08	1.136E+06	9.273E+05	1.494E+06	2.519E-05	3.376E+08	3.419E+08

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (78)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	6	9	6	9	6	9	6	9	6	9	6
X MAXIMUM	-8.439E+04	-1.807E-03	8.770E+05	4.263E-14	-3.200E+08	-6.498E-01	-8.439E+04	-1.807E-03	8.770E+05	4.263E-14	-1.622E+08	-3.245E-01
Y	14	4	14	4	14	4	14	4	14	4	8	4
Y MAXIMUM	5.051E+05	-2.965E-04	-3.042E+04	8.882E-15	1.099E+07	-1.066E-01	5.051E+05	-2.965E-04	-3.042E+04	8.882E-15	5.516E+06	-5.326E-02
Z	4	5	4	5	4	5	4	5	4	5	4	5
Z MAXIMUM	-5.816E-04	9.417E+05	-2.956E-04	-2.193E-05	1.063E-01	3.386E+08	-5.816E-04	9.417E+05	-2.956E-04	-2.193E-05	5.308E-02	1.691E+08
GRAND TOTAL	6.234E+05	9.506E+05	9.260E+05	2.299E-05	3.376E+08	3.419E+08	6.234E+05	9.506E+05	9.260E+05	2.299E-05	1.709E+08	1.708E+08

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (79)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	6	9	6	9	6	9	6	9	6	9	6
X MAXIMUM	-6.351E+04	-1.577E-03	7.804E+05	3.197E-14	-1.622E+08	-3.245E-01	-6.351E+04	-1.577E-03	7.804E+05	3.197E-14	-8.725E+07	-1.732E-01
Y	14	4	14	4	14	4	14	4	14	4	8	4
Y MAXIMUM	3.814E+05	-2.588E-04	-2.672E+04	6.217E-15	5.516E+06	-5.326E-02	3.814E+05	-2.588E-04	-2.672E+04	6.217E-15	2.951E+06	-2.842E-02
Z	4	5	4	5	4	5	4	5	4	5	4	5
Z MAXIMUM	-4.368E-04	8.219E+05	-2.579E-04	-1.144E-05	5.308E-02	1.691E+08	-4.368E-04	8.219E+05	-2.579E-04	-1.144E-05	2.831E-02	9.024E+07
GRAND TOTAL	4.706E+05	8.299E+05	8.229E+05	1.182E-05	1.709E+08	1.708E+08	4.706E+05	8.299E+05	8.229E+05	1.182E-05	9.190E+07	9.116E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (80)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	6	9	6	9	6	9	6	9	6	9	6
X MAXIMUM	-4.245E+04	-1.202E-03	6.059E+05	3.553E-15	-8.725E+07	-1.732E-01	-4.245E+04	-1.202E-03	6.059E+05	3.553E-15	-7.629E-06	-4.263E-14
Y	14	4	14	4	14	4	14	4	14	4	8	4
Y MAXIMUM	2.556E+05	-1.973E-04	-2.049E+04	4.441E-16	2.951E+06	-2.842E-02	2.556E+05	-1.973E-04	-2.049E+04	4.441E-16	-1.013E-06	-7.105E-15
Z	4	5	4	5	4	5	4	5	4	5	4	5
Z MAXIMUM	-2.915E-04	6.267E+05	-1.966E-04	-1.907E-06	2.831E-02	9.024E+07	-2.915E-04	6.267E+05	-1.966E-04	-1.907E-06	1.066E-14	-1.526E-05
GRAND TOTAL	3.154E+05	6.330E+05	6.382E+05	2.042E-06	5.190E+07	9.116E+07	3.154E+05	6.330E+05	6.382E+05	2.042E-06	9.124E-06	1.546E-05

Solution 4b

Intermodal/Interspatial Combination

N O D E D I S P L A C E M E N T S / R O T A T I O N S
 N O D E M O D E X- Y- Z-
 N U M B E R N U M B E R T R A N S L A T I O N T R A N S L A T I O N T R A N S L A T I O N

X- Y- Z-
 R O T A T I O N R O T A T I O N R O T A T I O N

1	TOTAL..	3.53446E-01	7.63492E-02	7.03017E-01	1.77795E-03	6.85165E-04	9.41862E-04
2	TOTAL..	2.09497E-01	7.51829E-02	4.38001E-01	1.70955E-03	6.85165E-04	8.76125E-04
3	TOTAL..	1.21019E-01	7.40230E-02	2.68808E-01	1.57849E-03	6.85165E-04	7.52359E-04
4	TOTAL..	1.20770E-04	7.11440E-02	9.38550E-05	1.09777E-03	6.85165E-04	3.53124E-04
5	TOTAL..	0.	0.	0.	0.	0.	0.
6	TOTAL..	0.	0.	0.	0.	0.	0.
7	TOTAL..	0.	0.	0.	0.	0.	0.
8	TOTAL..	0.	0.	0.	0.	0.	0.
9	TOTAL..	6.41362E-02	6.59018E-02	1.26979E-01	6.13108E-04	6.85165E-04	2.90789E-04
10	TOTAL..	0.	0.	0.	0.	0.	0.
11	TOTAL..	9.14900E-02	7.41668E-02	1.76227E-01	5.90324E-04	6.87333E-04	2.84768E-04
12	TOTAL..	8.83600E-02	6.41492E-02	1.29991E-01	6.00493E-04	6.99422E-04	3.25389E-04
13	TOTAL..	9.14900E-02	7.41668E-02	1.76227E-01	5.90324E-04	6.87333E-04	2.84768E-04
14	TOTAL..	9.16665E-02	7.38517E-02	1.67528E-01	8.48820E-04	7.01995E-04	6.77984E-04
15	TOTAL..	1.19596E-01	5.56510E-02	8.90760E-02	3.17339E-04	9.40693E-04	3.24188E-04
16	TOTAL..	9.16665E-02	7.38517E-02	1.67528E-01	8.48820E-04	7.01995E-04	6.77984E-04
17	TOTAL..	8.15957E-02	7.33632E-02	1.11930E-01	1.09193E-03	9.51562E-04	9.68108E-04
	OTAL..	8.15957E-02	7.33632E-02	1.11930E-01	1.09193E-03	9.51562E-04	9.68108E-04

ITAL..	9.08024E-02	5.60525E-02	7.81006E-02	1.46356E-03	5.83959E-04	1.15319E-03
22 TOTAL..	9.08024E-02	5.60525E-02	7.81006E-02	1.46356E-03	5.83959E-04	1.15319E-03
23 TOTAL..	9.73477E-02	1.88665E-02	1.69172E-01	3.73320E-03	1.31377E-03	1.69528E-03
24 TOTAL..	9.73477E-02	1.88665E-02	1.69172E-01	3.73320E-03	1.31377E-03	1.69528E-03
25 TOTAL..	1.95776E-01	1.88665E-02	4.36438E-01	3.74694E-03	1.40557E-03	1.75531E-03
26 TOTAL..	1.95776E-01	1.88665E-02	4.36438E-01	3.74694E-03	1.40557E-03	1.75531E-03
27 TOTAL..	0.	0.	0.	0.	0.	0.
28 TOTAL..	0.	0.	0.	0.	0.	0.
29 TOTAL..	4.54786E-01	1.96721E-02	9.54820E-01	4.11211E-03	1.40557E-03	2.13828E-03
30 TOTAL..	4.54786E-01	1.96721E-02	9.54820E-01	4.11211E-03	1.40557E-03	2.13828E-03
31 TOTAL..	1.86658E-01	4.32067E-02	3.85729E-01	3.68470E-03	1.49033E-03	1.67333E-03
32 TOTAL..	1.86658E-01	4.32067E-02	3.85729E-01	3.68470E-03	1.49033E-03	1.67333E-03
33 TOTAL..	1.59851E-01	6.87124E-02	2.40570E-01	2.19055E-03	2.52188E-03	6.35214E-04
34 TOTAL..	1.26530E-01	2.52152E-02	8.81893E-02	2.29164E-04	6.76240E-04	3.49981E-04
35 TOTAL..	1.59851E-01	6.87124E-02	2.40570E-01	2.19055E-03	2.52188E-03	6.35214E-04
36 TOTAL..	1.39185E-01	2.90738E-02	1.14210E-01	8.07721E-04	2.06732E-03	5.35704E-04
37 TOTAL..	1.39185E-01	2.90738E-02	1.14210E-01	8.07721E-04	2.06732E-03	5.35704E-04
38 TOTAL..	1.32899E-01	1.46234E-02	1.08123E-01	1.65572E-04	2.16950E-05	4.30535E-05
39 TOTAL..	1.34420E-01	7.18797E-03	1.06723E-01	1.70155E-04	1.52306E-05	3.47601E-05
40 TOTAL..	1.32899E-01	1.46234E-02	1.08123E-01	1.65572E-04	2.16950E-05	4.30535E-05
41 TOTAL..	0.	0.	0.	0.	0.	0.

41 TOTAL..	0.	0.	0.	0.	0.	0.
42 TOTAL..	0.	0.	0.	0.	0.	0.
43 TOTAL..	0.	0.	0.	0.	0.	0.
44 TOTAL..	0.	0.	0.	0.	0.	0.
45 TOTAL..	0.	0.	0.	0.	0.	0.
46 TOTAL..	0.	0.	0.	0.	0.	0.
47 TOTAL..	1.35475E-01	8.13214E-03	1.11953E-01	.70003E-04	4.01216E-09	4.00182E-05
48 TOTAL..	1.55439E-01	8.97273E-03	1.56964E-01	2.18694E-04	4.01216E-09	7.44163E-05
49 TOTAL..	1.37775E-01	8.53109E-03	1.06481E-01	.61145E-04	4.01216E-09	3.29628E-05
50 TOTAL..	1.38582E-01	8.67402E-03	1.01344E-01	.58973E-04	4.01216E-09	3.29880E-05
51 TOTAL..	1.39343E-01	8.78733E-03	9.37290E-02	.57989E-04	4.01216E-09	3.36407E-05
52 TOTAL..	0.	0.	0.	0.	0.	0.
53 TOTAL..	0.	0.	0.	0.	0.	0.
54 TOTAL..	0.	0.	0.	0.	0.	0.
55 TOTAL..	0.	0.	0.	0.	0.	0.
56 TOTAL..	0.	0.	0.	0.	0.	0.
57 TOTAL..	0.	0.	0.	0.	0.	0.
58 TOTAL..	1.32899E-01	1.46234E-02	1.08123E-01	.65572E-04	2.16950E-05	4.30535E-05
59 TOTAL..	1.34420E-01	7.18797E-03	1.06723E-01	.70155E-04	1.52306E-05	3.47601E-05
TOTAL..	1.32899E-01	1.46234E-02	1.08123E-01	.65572E-04	2.16950E-05	4.30535E-05
61 TOTAL..	1.39185E-01	2.90738E-02	1.14210E-01	8.07721E-04	2.06732E-03	5.35704E-04

63 TOTAL..	1.59851E-01	6.87124E-02	2.40570E-01	2.19055E-03	2.52188E-03	6.35214E-04
64 TOTAL..	1.26530E-01	2.52152E-02	8.61843E-02	2.29164E-04	6.76240E-04	3.49981E-04
65 TOTAL..	1.59851E-01	6.87124E-02	2.40570E-01	2.19055E-03	2.52188E-03	6.35214E-04
66 TOTAL..	1.86658E-01	4.32067E-02	3.85729E-01	3.68470E-03	1.49033E-03	1.67333E-03
67 TOTAL..	1.86658E-01	4.32067E-02	3.85729E-01	3.68470E-03	1.49033E-03	1.67333E-03
68 TOTAL..	4.54786E-01	1.96721E-02	9.54820E-01	4.11211E-03	1.40557E-03	2.13828E-03
69 TOTAL..	4.54786E-01	1.96721E-02	9.54820E-01	4.11211E-03	1.40557E-03	2.13828E-03
70 TOTAL..	0.	0.	0.	0.	0.	0.
71 TOTAL..	0.	0.	0.	0.	0.	0.
72 TOTAL..	1.95776E-01	1.88665E-02	4.36438E-01	3.74694E-03	1.40557E-03	1.75531E-03
73 TOTAL..	1.95776E-01	1.88665E-02	4.36438E-01	3.74694E-03	1.40557E-03	1.75531E-03
74 TOTAL..	9.73477E-02	1.88665E-02	1.49172E-01	3.73320E-03	1.31377E-03	1.69528E-03
75 TOTAL..	9.73477E-02	1.88665E-02	1.49172E-01	3.73320E-03	1.31377E-03	1.69528E-03
76 TOTAL..	9.08024E-02	5.60525E-02	7.81006E-02	1.46356E-03	5.83959E-04	1.15319E-03
77 TOTAL..	9.08024E-02	5.60525E-02	7.81006E-02	1.46356E-03	5.83959E-04	1.15319E-03
78 TOTAL..	9.52343E-02	5.63427E-02	7.92198E-02	1.19132E-03	6.72268E-04	1.13328E-03
79 TOTAL..	9.52343E-02	5.63427E-02	7.92198E-02	1.19132E-03	6.72268E-04	1.13328E-03
80 TOTAL..	8.15957E-02	7.33632E-02	1.11930E-01	1.09193E-03	9.51562E-04	9.68108E-04
81 TOTAL..	8.15957E-02	7.33632E-02	1.11930E-01	1.09193E-03	9.51562E-04	9.68108E-04
82 TOTAL..	9.16665E-02	7.38517E-02	1.67528E-01	8.08820E-04	7.01945E-04	6.77984E-04
83 TOTAL..	1.19596E-01	5.56510E-02	8.90760E-02	3.17339E-04	9.40693E-04	3.24188E-04

83 TOTAL..	1.19596E-01	5.56510E-02	8.90760E-02	3.17339E-04	9.40693E-04	3.24188E-04
84 TOTAL..	9.16665E-02	7.38517E-02	1.67528E-01	8.48820E-04	7.01995E-04	6.77984E-04
85 TOTAL..	9.14900E-02	7.41668E-02	1.76227E-01	5.90324E-04	6.87333E-04	2.84768E-04
86 TOTAL..	9.14900E-02	7.41668E-02	1.76227E-01	5.90324E-04	6.87333E-04	2.84768E-04
87 TOTAL..	8.83600E-02	6.41492E-02	1.29991E-01	6.00493E-04	6.99422E-04	3.25389E-04
88 TOTAL..	0.	0.	0.	0.	0.	0.
89 TOTAL..	6.41362E-02	6.59018E-02	1.26979E-01	6.13108E-04	6.85165E-04	2.90789E-04
90 TOTAL..	1.20770E-04	7.11440E-02	9.38550E-05	1.09777E-03	6.85165E-04	3.53124E-04
91 TOTAL..	0.	0.	0.	0.	0.	0.
92 TOTAL..	0.	0.	0.	0.	0.	0.
93 TOTAL..	0.	0.	0.	0.	0.	0.
94 TOTAL..	0.	0.	0.	0.	0.	0.
95 TOTAL..	1.21019E-01	7.40230E-02	2.68808E-01	1.57849E-03	6.85165E-04	7.52359E-04
96 TOTAL..	2.09497E-01	7.51829E-02	4.38001E-01	1.70955E-03	6.85165E-04	8.76125E-04
97 TOTAL..	3.53446E-01	7.63492E-02	7.03017E-01	1.77795E-03	6.85165E-04	9.41862E-04

1. FOR EACH EARTH QUAKE DIRECTION; THE NUMBER OF THE MODE WITH THE LARGEST STRESS.
 2. THE VALUE OF THAT STRESS.
 3. IF REQUESTED; THE MODE BY MODE STRESSES FOR EACH EARTH QUAKE DIRECTION.
 4. THE RESULTANT FOR EACH EARTH QUAKE DIRECTION.
 5. THE GRAND TOTAL OF THE THREE EARTH QUAKE DIRECTIONS.
 (NOTE: THE X, Y, OR Z REFERS TO THE EARTH QUAKE DIRECTION.)

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (1)

	BDRY-F	BDRY-M	
X		9	0
X MAXIMUM	-1.167E+06	0.	
Y		14	0
Y MAXIMUM	5.373E+04	0.	
Z		20	0
Z MAXIMUM	-5.077E-03	0.	
GRAND TOTAL	1.208E+06	0.	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (2)

	BDRY-F	BDRY-M	
X		28	0
X MAXIMUM	1.856E-01	0.	
Y		28	0
Y MAXIMUM	1.078E-02	0.	
Z		5	0
Z MAXIMUM	9.276E+05	0.	
GRAND TOTAL	9.386E+05	0.	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (3)

	BDRY-F	BDRY-M	
X		9	0
X MAXIMUM	1.167E+06	0.	
Y		14	0
Y MAXIMUM	-5.373E+04	0.	
Z		20	0
Z MAXIMUM	5.077E-03	0.	
GRAND TOTAL	1.208E+06	0.	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (4)

	BDRY-F	BDRY-M	
X		28	0
X MAXIMUM	-1.856E-01	0.	
Y		28	0
Y MAXIMUM	-1.078E-02	0.	
Z		5	0
Z MAXIMUM	-9.276E+05	0.	
GRAND TOTAL	9.386E+05	0.	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (5)

	BDRY-F	BDRY-M	
X		9	0
X MAXIMUM	-1.841E+05	0.	
Y		21	0
Y MAXIMUM	-1.694E+05	0.	
Z		10	0

Y MAXIMUM -1.694E+05 0.
Z 10 0

Z MAXIMUM 5.614E+05 0.
GRAND TOTAL 7.312E+05 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (6)

BDRY-F BDRY-M
X 9 0
X MAXIMUM -8.864E+04 0.
Y 21 0
Y MAXIMUM -1.815E+05 0.
Z 29 0
Z MAXIMUM -1.191E+03 0.
GRAND TOTAL 3.594E+05 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (7)

BDRY-F BDRY-M
X 9 0
X MAXIMUM -1.841E+05 0.
Y 21 0
Y MAXIMUM -1.694E+05 0.
Z 10 0
Z MAXIMUM -5.614E+05 0.
GRAND TOTAL 7.312E+05 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (8)

BDRY-F BDRY-M
X 28 0
X MAXIMUM 1.077E-01 0.
Y 28 0
Y MAXIMUM 6.257E-03 0.
Z 10 0
Z MAXIMUM 1.016E+06 0.
GRAND TOTAL 1.067E+06 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (9)

BDRY-F BDRY-M
X 9 0
X MAXIMUM -8.542E+05 0.
Y 12 0
Y MAXIMUM 6.228E+03 0.
Z 10 0
Z MAXIMUM 6.888E+05 0.
GRAND TOTAL 1.174E+06 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (10)

BDRY-F BDRY-M
X 9 0
X MAXIMUM 8.542E+05 0.
Y 12 0
Y MAXIMUM -6.228E+03 0.
Z 10 0
Z MAXIMUM 6.888E+05 0.
GRAND TOTAL 1.174E+06 0.

E T TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (11)

RY-F BDRY-M
X 9 0
X MAXIMUM 8.864E+04 0.

X MAXIMUM 8.864E+04 0.

Y 21 0
Y MAXIMUM -1.815E+05 0.
Z 29 0
Z MAXIMUM 1.190E-03 0.
GRAND TOTAL 3.594E+05 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (12)

BDRY-F BDRY-M
X 28 0
X MAXIMUM -1.078E-01 0.
Y 28 0
Y MAXIMUM -6.260E-03 0.
Z 10 0
Z MAXIMUM 1.016E+06 0.
GRAND TOTAL 1.067E+06 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (13)

BDRY-F BDRY-M
X 9 0
X MAXIMUM 1.841E+05 0.
Y 21 0
Y MAXIMUM -1.694E+05 0.
Z 10 0
Z MAXIMUM -5.614E+05 0.
GRAND TOTAL 7.312E+05 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (14)

BDRY-F BDRY-M
X 9 0
X MAXIMUM 8.542E+05 0.
Y 12 0
Y MAXIMUM 6.228E+03 0.
Z 10 0
Z MAXIMUM 6.888E+05 0.
GRAND TOTAL 1.174E+06 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (15)

BDRY-F BDRY-M
X 9 0
X MAXIMUM 1.841E+05 0.
Y 21 0
Y MAXIMUM -1.694E+05 0.
Z 10 0
Z MAXIMUM 5.614E+05 0.
GRAND TOTAL 7.312E+05 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (16)

BDRY-F BDRY-M
X 9 0
X MAXIMUM -8.542E+05 0.
Y 12 0
Y MAXIMUM -6.228E+03 0.
Z 10 0
Z MAXIMUM 6.888E+05 0.
GRAND TOTAL 1.174E+06 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (17)

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (17)

BDRY=F BDRY=M
X 9 0
X MAXIMUM 1.167E+06 0.
Y 14 0
Y MAXIMUM 5.373E+04 0.
Z 20 0
Z MAXIMUM -1.485E-03 0.
GRAND TOTAL 1.208E+06 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (18)

BDRY=F BDRY=M
X 9 0
X MAXIMUM -1.167E+06 0.
Y 14 0
Y MAXIMUM -5.373E+04 0.
Z 20 0
Z MAXIMUM 1.485E-03 0.
GRAND TOTAL 1.208E+06 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (19)

BDRY=F BDRY=M
X 28 0
X MAXIMUM -1.864E-01 0.
Y 28 0
Y MAXIMUM -1.082E-02 0.
Z 5 0
Z MAXIMUM 9.276E+05 0.
GRAND TOTAL 9.386E+05 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (20)

BDRY=F BDRY=M
X 28 0
X MAXIMUM 1.864E-01 0.
Y 28 0
Y MAXIMUM 1.082E-02 0.
Z 5 0
Z MAXIMUM -9.276E+05 0.
GRAND TOTAL 9.386E+05 0.

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (1)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	28	9	0	9	28	9	28	9	0	9	28
X MAXIMUM	4.245E+04	-1.828E-01	6.059E+05	0.	-3.242E-05	-2.842E-13	4.245E+04	-1.828E-01	6.059E+05	0.	8.725E+07	2.632E+01
Y	14	28	8	0	8	28	14	28	8	0	8	28
Y MAXIMUM	2.556E+05	-1.062E-02	2.049E+04	0.	-1.605E-06	-1.776E-14	2.556E+05	-1.062E-02	2.049E+04	0.	2.951E+06	1.529E+00
Z	29	5	29	0	20	5	29	5	29	0	29	5
Z MAXIMUM	-1.227E-03	-6.267E+05	2.127E-03	0.	4.885E-15	-1.068E-04	-1.227E-03	-6.267E+05	2.127E-03	0.	3.063E-01	9.024E+07
GRAND TOTAL	3.153E+05	6.330E+05	6.381E+05	0.	3.248E-05	1.068E-04	3.153E+05	6.330E+05	6.381E+05	0.	9.189E+07	9.116E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (2)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	28	9	28	9	28	9	28	9	28	9	28
IMUM	6.351E+04	-1.204E-01	7.804E+05	-4.547E-13	8.725E+07	2.632E+01	6.351E+04	-1.204E-01	7.804E+05	-4.547E-13	1.622E+08	3.7
Y	14	28	8	28	8	28	14	28	8	28	8	8
IMUM	3.814E+05	-6.994E-03	2.672E+04	-2.842E-14	2.951E+06	1.529E+00	3.814E+05	-6.994E-03	2.672E+04	-2.842E-14	5.516E+06	2.2
Z	29	5	29	5	29	5	29	5	29	5	29	5
Z MAXIMUM	-1.764E-03	-8.219E+05	1.330E-03	1.907E-06	5.063E-01	9.024E+07	-1.764E-03	-8.219E+05	1.330E-03	1.907E-06	4.300E-01	1.691E+08

Y 14 8 28 28 28 14 14 8 28 28 28 14
Y MAXIMUM 9.959E+04-2.544E+04-5.531E-03-7.310E-02 5.261E-01-8.103E+06 9.959E+04-2.544E+04-5.531E-03-7.310E-02 1.370E-01-7.535E+06

Z 29 29 5 10 5 20 29 29 5 10 5 20
Z MAXIMUM 5.418E-03 5.785E-03-1.878E+05-2.806E+06 3.051E+07 6.509E-01 5.418E-03 5.785E-03-1.878E+05-2.806E+06 1.730E+07 2.470E-01
GRAND TOTAL 1.271E+06 1.115E+06 2.213E+05 3.085E+06 3.521E+07 1.082E+08 1.271E+06 1.115E+06 2.213E+05 3.085E+06 1.968E+07 3.127E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (9)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	3	9	9	9	9	3	9	3	9	9	3
X MAXIMUM	4.872E+04	4.319E+04	4.100E+04	2.030E+06	-3.662E+06	2.219E+06	5.210E+04	3.762E+04	4.100E+04	8.063E+05	-3.296E+06	1.367E+06
Y	14	14	14	12	12	12	14	14	14	12	12	21
Y MAXIMUM	1.360E+04	1.157E+04	1.507E+04	-5.255E+05	9.866E+05	-1.245E+06	1.673E+04	-1.180E+04	1.507E+04	-1.912E+05	9.143E+05	-1.010E+06
Z	5	5	5	5	5	5	5	5	5	5	5	5
Z MAXIMUM	-2.848E+04	1.694E+05	-5.503E+04	-8.330E+06	5.723E+06	1.390E+07	3.102E+04	1.689E+05	-5.503E+04	-6.076E+06	7.095E+06	1.033E+07
GRAND TOTAL	6.780E+04	1.815E+05	8.686E+04	8.840E+06	8.024E+06	1.482E+07	7.869E+04	1.779E+05	8.686E+04	6.271E+06	8.558E+06	1.107E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (9)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	9	9	9	9
X MAXIMUM	4.923E+04	2.753E+04	4.100E+04	-7.102E+05	-2.534E+06	1.305E+06
Y	14	21	14	12	12	14
Y MAXIMUM	1.785E+04	-1.171E+04	1.507E+04	9.829E+04	7.325E+05	8.312E+05
Z	5	5	5	5	5	5
Z MAXIMUM	8.679E+04	1.482E+05	-5.503E+04	-3.489E+06	7.616E+06	6.988E+06
GRAND TOTAL	1.164E+05	1.559E+05	8.686E+04	3.672E+06	8.430E+06	7.689E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (10)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	9	9	28	28	28	9	9	9	28	28	29
X MAXIMUM	-1.255E+06	-1.101E+06	-5.736E-02	-1.256E+00	2.361E+00	-2.860E+07	-1.603E+06	-4.672E+05	-5.736E-02	-7.740E-01	-1.964E-01	1.241E+07
Y	14	8	28	28	28	14	14	14	14	28	30	14
Y MAXIMUM	1.062E+05	-2.546E+04	-3.331E-03	-7.292E-02	1.371E-01	-7.535E+06	9.000E+04	-5.822E+04	-3.331E-03	-4.495E-02	2.732E-02	-5.628E+06
Z	29	20	5	10	5	20	29	20	5	5	5	20
Z MAXIMUM	5.635E-03	6.487E-03	-1.926E+05	-2.794E+06	1.730E+07	2.470E-01	7.681E-03	3.743E-03	-1.926E+05	4.145E+06	6.563E+06	-2.055E-02
GRAND TOTAL	1.269E+06	1.108E+06	2.243E+05	3.066E+06	1.968E+07	3.127E+07	1.614E+06	4.782E+05	2.243E+05	4.236E+06	7.680E+06	1.513E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (10)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	28	28	28	9
X MAXIMUM	-1.650E+06	2.542E+05	-5.736E-02	-1.416E+00	-2.703E+00	1.798E+07
Y	14	14	28	28	28	14
Y MAXIMUM	5.695E+04	-9.081E+04	-3.331E-03	-8.220E-02	-1.570E-01	-1.731E+06
Z	29	29	5	5	5	20
Z MAXIMUM	8.287E-03	-4.049E-04	-1.926E+05	4.401E+06	-5.405E+06	-1.262E-01
GRAND TOTAL	1.660E+06	2.836E+05	2.243E+05	4.543E+06	5.926E+06	1.831E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (11)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	3	9	9	9	9	3	9	3	9	9	3
X MAXIMUM	4.872E+04	4.319E+04	4.100E+04	-2.030E+06	3.662E+06	2.219E+06	5.210E+04	3.762E+04	4.100E+04	8.063E+05	-3.296E+06	1.367E+06
Y	14	14	14	12	12	12	14	14	14	12	12	21
Y MAXIMUM	1.360E+04	1.157E+04	1.507E+04	-5.255E+05	9.866E+05	-1.245E+06	1.673E+04	-1.180E+04	1.507E+04	-1.912E+05	9.143E+05	-1.010E+06
Z	5	5	5	5	5	5	5	5	5	5	5	5
Z MAXIMUM	-2.848E+04	1.694E+05	-5.503E+04	-8.330E+06	5.723E+06	1.390E+07	3.102E+04	1.689E+05	-5.503E+04	-6.076E+06	7.095E+06	1.033E+07
GRAND TOTAL	6.780E+04	1.815E+05	8.686E+04	8.840E+06	8.024E+06	1.482E+07	7.869E+04	1.779E+05	8.686E+04	6.271E+06	8.558E+06	1.107E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (11)

X 4UM 4.923E+04 2.753E+04-4.100E+04 7.102E+05 2.534E+06 1.305E+06
 Y 14 21 14 12 12 14
 Y MAXIMUM 1.785E+04-1.171E+04-1.507E+04-9.829E+04-7.323E+05 8.312E+05
 Z 5 5 5 5 5 5
 Z MAXIMUM -8.679E+04-1.482E+05-5.503E+04-3.489E+06 7.616E+06-6.988E+06
 GRAND TOTAL 1.164E+05 1.559E+05 8.686E+04 3.672E+06 8.430E+06 7.689E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (12)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	9	3	9	17	9	9	9	3	9
X MAXIMUM	5.017E+04	-2.709E+04	3.807E+04	-7.102E+05	-2.785E+06	-8.536E+05	5.017E+04	-2.709E+04	3.807E+04	-7.102E+05	1.080E+06	2.244E+06
Y	14	21	14	12	12	14	14	21	14	12	14	14
Y MAXIMUM	2.234E+04	-1.044E+04	1.404E+04	9.862E+04	8.196E+05	8.784E+05	2.234E+04	-1.044E+04	1.404E+04	9.862E+04	9.161E+05	1.116E+06
Z	5	5	10	5	5	5	5	5	10	5	5	10
Z MAXIMUM	8.745E+04	1.605E+05	-3.348E+04	-3.485E+06	5.560E+06	8.715E+06	8.745E+04	1.605E+05	-3.348E+04	-3.485E+06	4.616E+06	-1.032E+06
GRAND TOTAL	1.182E+05	1.681E+05	6.910E+04	3.669E+06	6.819E+06	9.134E+06	1.182E+05	1.681E+05	6.910E+04	3.669E+06	5.017E+06	3.339E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (13)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	9	3	9	17	9	9	9	3	9
X MAXIMUM	5.017E+04	2.709E+04	3.807E+04	7.102E+05	-2.785E+06	8.536E+05	5.017E+04	2.709E+04	3.807E+04	7.102E+05	1.080E+06	-2.244E+06
Y	14	21	14	12	12	14	14	21	14	12	14	14
Y MAXIMUM	2.234E+04	1.044E+04	1.404E+04	-9.862E+04	8.196E+05	-8.784E+05	2.234E+04	1.044E+04	1.404E+04	-9.862E+04	9.161E+05	-1.116E+06
Z	5	5	10	5	5	5	5	5	10	5	5	10
Z MAXIMUM	-8.745E+04	1.605E+05	3.348E+04	-3.485E+06	-5.560E+06	8.715E+06	-8.745E+04	1.605E+05	3.348E+04	-3.485E+06	-4.616E+06	-1.032E+06
GRAND TOTAL	1.182E+05	1.681E+05	6.910E+04	3.669E+06	6.819E+06	9.134E+06	1.182E+05	1.681E+05	6.910E+04	3.669E+06	5.017E+06	3.339E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (14)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	9	9	3	3	9	9	9	3	3	3	9
X MAXIMUM	5.159E+04	4.951E+04	-3.020E+04	-7.102E+05	2.084E+06	-9.630E+05	7.149E+04	-2.281E+04	-3.020E+04	-1.964E+06	-1.651E+06	-2.157E+06
Y	14	14	21	12	12	14	14	14	21	12	12	14
Y MAXIMUM	2.911E+04	1.344E+04	3.581E+03	9.862E+04	-3.957E+05	-1.403E+06	3.009E+04	-1.108E+04	3.581E+03	-1.479E+05	-1.994E+05	-1.462E+06
Z	5	5	5	5	5	5	5	10	5	5	5	5
Z MAXIMUM	8.833E+04	-1.107E+05	-1.212E+05	-3.485E+06	-3.559E+06	-3.098E+06	4.056E+04	-1.407E+05	-1.212E+05	-7.112E+06	-5.195E+06	3.149E+06
GRAND TOTAL	1.209E+05	1.284E+05	1.272E+05	3.569E+06	4.663E+06	3.734E+06	1.035E+05	1.454E+05	1.272E+05	7.569E+06	5.828E+06	4.466E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (14)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	3	3
X MAXIMUM	4.951E+04	-5.159E+04	-3.020E+04	-3.045E+06	-1.102E+06	1.511E+06
Y	14	14	21	12	21	14
Y MAXIMUM	1.344E+04	-2.911E+04	3.581E+03	-1.834E+05	3.102E+05	-4.631E+05
Z	5	5	5	5	5	5
Z MAXIMUM	-1.107E+05	-8.833E+04	-1.212E+05	-1.083E+07	-3.788E+06	8.842E+06
GRAND TOTAL	1.284E+05	1.209E+05	1.272E+05	1.158E+07	4.094E+06	9.185E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (15)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	9	9	3	3	9	9	9	3	3	3	9
X MAXIMUM	5.159E+04	4.951E+04	3.020E+04	7.102E+05	-2.084E+06	-9.630E+05	7.149E+04	-2.281E+04	3.020E+04	1.964E+06	1.651E+06	-2.157E+06
Y	14	14	21	12	12	14	14	14	21	12	12	14
Y MAXIMUM	2.911E+04	1.344E+04	-3.581E+03	-9.862E+04	3.957E+05	-1.403E+06	3.009E+04	-1.108E+04	-3.581E+03	1.479E+05	1.994E+05	-1.462E+06
Z	5	5	5	5	5	5	5	10	5	5	5	5
Z MAXIMUM	-8.833E+04	1.107E+05	-1.212E+05	-3.485E+06	-3.559E+06	-3.098E+06	4.056E+04	-1.407E+05	-1.212E+05	-7.112E+06	-5.195E+06	3.149E+06
GRAND TOTAL	1.209E+05	1.284E+05	1.272E+05	3.569E+06	4.663E+06	3.734E+06	1.035E+05	1.454E+05	1.272E+05	7.569E+06	5.828E+06	4.466E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (15)

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (15)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	3	3
X MAXIMUM	4.951E+04	-5.159E+04	3.020E+04	3.045E+06	1.102E+06	1.511E+06
Y	14	14	14	21	12	21
Y MAXIMUM	1.344E+04	-2.911E+04	-3.581E+03	1.834E+05	-3.102E+05	-4.631E+05
Z	5	5	5	5	5	5
Z MAXIMUM	1.107E+05	8.833E+04	-1.212E+05	-1.083E+07	-3.788E+06	-8.842E+06
GRAND TOTAL	1.284E+05	1.209E+05	1.272E+05	1.158E+07	4.094E+06	9.185E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (16)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	3	3	9	9	9	3	3	3
X MAXIMUM	5.167E+04	-5.211E+04	-3.014E+04	-3.038E+06	-1.102E+06	1.525E+06	5.167E+04	-5.211E+04	-3.014E+04	-3.038E+06	-1.814E+06	2.327E+06
Y	14	14	14	21	12	21	14	14	14	21	12	21
Y MAXIMUM	1.472E+04	-3.221E+04	-3.288E+03	-1.832E+05	3.102E+05	-4.636E+05	1.472E+04	-3.221E+04	-3.288E+03	-1.832E+05	2.325E+05	2.972E+05
Z	5	5	5	5	5	5	5	5	5	5	5	5
Z MAXIMUM	-1.107E+05	-8.758E+04	-1.216E+05	-1.079E+07	-3.788E+06	8.890E+06	-1.107E+05	-8.758E+04	-1.216E+05	-1.079E+07	-6.660E+06	1.096E+07
GRAND TOTAL	1.291E+05	1.212E+05	1.269E+05	1.154E+07	4.094E+06	9.236E+06	1.291E+05	1.212E+05	1.269E+05	1.154E+07	7.025E+06	1.137E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (17)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	3	3	9	9	9	3	3	3
X MAXIMUM	5.167E+04	-5.211E+04	-3.014E+04	-3.038E+06	-1.102E+06	1.525E+06	5.167E+04	-5.211E+04	-3.014E+04	-3.038E+06	-1.814E+06	2.327E+06
Y	14	14	14	21	12	21	14	14	14	21	12	21
Y MAXIMUM	1.472E+04	-3.221E+04	-3.288E+03	-1.832E+05	3.102E+05	-4.636E+05	1.472E+04	-3.221E+04	-3.288E+03	-1.832E+05	2.325E+05	2.972E+05
Z	5	5	5	5	5	5	5	5	5	5	5	5
Z MAXIMUM	1.107E+05	8.758E+04	-1.216E+05	-1.079E+07	-3.788E+06	8.890E+06	1.107E+05	8.758E+04	-1.216E+05	-1.079E+07	-6.660E+06	-1.096E+07
GRAND TOTAL	1.291E+05	1.212E+05	1.269E+05	1.154E+07	4.094E+06	9.236E+06	1.291E+05	1.212E+05	1.269E+05	1.154E+07	7.025E+06	1.137E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (18)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	9	9	3	3	3	9	9	9	3	3	3
X MAXIMUM	5.385E+04	-5.220E+04	-3.007E+04	-3.048E+06	-1.814E+06	2.313E+06	-2.144E+04	-7.499E+04	-3.007E+04	-3.966E+06	-1.443E+06	3.799E+06
Y	14	14	14	21	12	21	14	14	14	21	12	21
Y MAXIMUM	1.600E+04	-3.424E+04	-9.586E+03	-1.829E+05	2.325E+05	2.977E+05	-1.289E+04	-3.552E+04	-9.586E+03	1.981E+05	-3.249E+05	2.031E+06
Z	5	5	5	5	5	5	5	5	10	5	5	5
Z MAXIMUM	-1.097E+05	-8.661E+04	-1.226E+05	-1.084E+07	-6.660E+06	1.091E+07	-1.388E+05	3.932E+04	-1.226E+05	-1.453E+07	-2.245E+06	1.266E+07
GRAND TOTAL	1.294E+05	1.208E+05	1.294E+05	1.159E+07	7.025E+06	1.132E+07	1.442E+05	1.060E+05	1.294E+05	1.528E+07	3.058E+06	1.418E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (18)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	3	9
X MAXIMUM	-5.218E+04	-5.387E+04	-3.007E+04	-3.618E+06	-2.006E+06	6.754E+06
Y	14	14	14	21	21	14
Y MAXIMUM	-3.423E+04	-1.601E+04	-9.586E+03	-3.424E+05	-6.920E+05	3.312E+06
Z	5	5	5	5	5	5
Z MAXIMUM	-8.665E+04	1.096E+05	-1.226E+05	-1.402E+07	3.484E+06	9.529E+06
GRAND TOTAL	1.209E+05	1.294E+05	1.294E+05	1.464E+07	4.683E+06	1.405E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (19)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	9	9	3	3	3	9	9	9	3	3	3
X MUM	5.385E+04	-5.220E+04	3.007E+04	5.048E+06	1.814E+06	2.313E+06	-2.144E+04	-7.499E+04	3.007E+04	3.966E+06	1.443E+06	3.799E+06
Y	14	14	14	21	12	21	14	14	14	21	12	21
Y MAXIMUM	1.600E+04	-3.424E+04	9.586E+03	1.829E+05	-2.325E+05	2.977E+05	-1.289E+04	-3.552E+04	9.586E+03	-1.981E+05	3.249E+05	2.031E+06
Z	5	5	5	5	5	5	5	5	10	5	5	5

GR TOTAL 1.294E+05 1.208E+05 1.294E+05 1.159E+07 7.025E+06 1.132E+07 1.442E+05 1.060E+05 1.294E+05 1.528E+07 3.058E+06 1.411

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (19)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	3	9
X MAXIMUM	-5.218E+04	-5.387E+04	3.007E+04	3.618E+06	2.006E+06	6.754E+06
Y	14	14	21	21	21	14
Y MAXIMUM	-3.423E+04	-1.601E+04	9.586E+03	3.424E+05	6.920E+05	3.312E+06
Z	5	5	5	5	5	5
Z MAXIMUM	8.665E+04	-1.096E+05	-1.226E+05	-1.402E+07	3.484E+06	-9.529E+06
GRAND TOTAL	1.209E+05	1.294E+05	1.294E+05	1.464E+07	4.593E+06	1.405E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (20)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	3	9	9	9	9	3	9	9
X MAXIMUM	-5.183E+04	-3.116E+04	-4.631E+04	-3.618E+06	-6.601E+06	3.721E+06	-5.183E+04	-3.116E+04	-4.631E+04	-3.618E+06	-9.936E+06	4.706E+06
Y	14	14	21	14	21	14	14	14	21	14	14	14
Y MAXIMUM	-3.422E+04	1.442E+04	-1.133E+04	-3.426E+05	-2.667E+06	1.964E+06	-3.422E+04	1.442E+04	-1.133E+04	-3.426E+05	-3.483E+06	2.807E+06
Z	5	5	10	5	5	5	5	5	10	5	10	5
Z MAXIMUM	-8.672E+04	1.613E+05	2.817E+04	-1.402E+07	-5.510E+06	8.522E+06	-8.672E+04	1.613E+05	2.817E+04	-1.402E+07	-5.280E+06	-3.090E+06
GRAND TOTAL	1.209E+05	1.715E+05	6.799E+04	1.464E+07	1.057E+07	1.027E+07	1.209E+05	1.715E+05	6.799E+04	1.464E+07	1.442E+07	8.532E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (21)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	3	9	9	9	9	3	9	9
X MAXIMUM	-5.183E+04	3.116E+04	-4.631E+04	3.618E+06	-6.601E+06	-3.721E+06	-5.183E+04	3.116E+04	-4.631E+04	3.618E+06	-9.936E+06	-4.706E+06
Y	14	14	21	14	21	14	14	14	21	14	14	14
Y MAXIMUM	-3.422E+04	-1.442E+04	-1.133E+04	3.426E+05	-2.667E+06	-1.964E+06	-3.422E+04	-1.442E+04	-1.133E+04	3.426E+05	-3.483E+06	-2.807E+06
Z	5	5	10	5	5	5	5	5	10	5	10	5
Z MAXIMUM	8.672E+04	1.613E+05	-2.817E+04	-1.402E+07	5.510E+06	8.522E+06	8.672E+04	1.613E+05	-2.817E+04	-1.402E+07	-5.280E+06	-3.090E+06
GRAND TOTAL	1.209E+05	1.715E+05	6.799E+04	1.464E+07	1.057E+07	1.027E+07	1.209E+05	1.715E+05	6.799E+04	1.464E+07	1.442E+07	8.532E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (22)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	17	3	3	9	9	3	17	3	9	3
X MAXIMUM	-1.767E+05	-1.019E+05	9.174E+04	-8.911E+06	1.996E+07	1.719E+07	-1.767E+05	-1.019E+05	9.174E+04	-8.911E+06	3.393E+07	3.554E+07
Y	21	14	12	21	12	14	21	14	12	21	14	4
Y MAXIMUM	1.918E+05	-3.216E+04	4.391E+04	4.855E+05	-9.921E+06	-5.139E+06	1.918E+05	-3.216E+04	4.391E+04	4.855E+05	-2.096E+06	-1.831E+06
Z	5	5	5	5	10	5	5	5	5	5	5	5
Z MAXIMUM	1.198E+05	-2.362E+05	8.041E+04	-2.233E+07	-1.865E+07	6.110E+07	1.198E+05	-2.362E+05	8.041E+04	-2.233E+07	-2.829E+07	1.036E+08
GRAND TOTAL	3.615E+05	2.806E+05	2.135E+05	2.570E+07	4.143E+07	6.746E+07	3.615E+05	2.806E+05	2.135E+05	2.570E+07	5.018E+07	1.122E+08

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (23)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	17	3	3	9	9	3	17	3	9	3
X MAXIMUM	-1.767E+05	1.019E+05	9.174E+04	8.911E+06	1.996E+07	-1.719E+07	-1.767E+05	1.019E+05	9.174E+04	8.911E+06	3.393E+07	-3.554E+07
Y	21	14	12	21	12	14	21	14	12	21	14	4
Y MAXIMUM	1.918E+05	3.216E+04	4.391E+04	4.855E+05	-9.921E+06	5.139E+06	1.918E+05	3.216E+04	4.391E+04	4.855E+05	-2.096E+06	1.831E+06
Z	5	5	5	5	10	5	5	5	5	5	5	5
Z MAXIMUM	-1.198E+05	-2.362E+05	-8.041E+04	-2.233E+07	1.865E+07	6.110E+07	-1.198E+05	-2.362E+05	-8.041E+04	-2.233E+07	-2.829E+07	1.036E+08
GRAND TOTAL	3.615E+05	2.806E+05	2.135E+05	2.570E+07	4.143E+07	6.746E+07	3.615E+05	2.806E+05	2.135E+05	2.570E+07	5.018E+07	1.122E+08

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (24)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	9	9	4	3	9	3	9	9	9	3
X MAXIMUM	-1.489E+04	1.934E+05	4.982E+05	1.188E+07	-6.278E+07	2.447E+07	-1.489E+04	1.934E+05	4.982E+05	1.188E+07	1.907E+05	-1.049E+05
Y	21	12	12	23	12	12	21	12	12	23	12	4

X MAXIMUM -1.489E+04 1.934E+05 4.982E+05 1.788E-07 -6.278E+07 2.437E+07 -1.489E+04 1.934E+05 4.982E+05 1.788E-07 1.907E-05 -1.049E-05
Y 21 12 12 23 12 12 21 12 12 23 12 4

Y MAXIMUM 1.438E+05 4.107E+04 -1.412E+05 -3.725E-08 1.779E+07 5.175E+06 1.438E+05 4.107E+04 -1.412E+05 -3.725E-08 -1.907E-06 8.941E-07
Z 25 5 10 5 10 5 25 5 10 5 5 5
Z MAXIMUM 2.827E+04 5.962E+05 -3.131E+05 -1.431E-06 3.945E+07 7.512E+07 2.827E+04 5.962E+05 -3.131E+05 -1.431E-06 1.526E-05 -6.866E-05
GRAND TOTAL 1.980E+05 6.689E+05 7.328E+05 1.486E-06 9.233E+07 8.428E+07 1.980E+05 6.689E+05 7.328E+05 1.486E-06 2.767E-05 6.990E-05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (25)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	9	3	9	3	9	3	9	3	9	3
X MAXIMUM	-1.489E+04	-1.934E+05	4.982E+05	7.153E-07	-6.278E+07	2.437E+07	-1.489E+04	-1.934E+05	4.982E+05	7.153E-07	9.537E-06	3.815E-06
Y	21	12	12	21	12	12	21	12	12	21	14	12
Y MAXIMUM	1.438E+05	4.107E+04	-1.412E+05	-7.451E-08	1.779E+07	5.175E+06	1.438E+05	4.107E+04	-1.412E+05	-7.451E-08	2.146E-06	8.345E-07
Z	25	5	10	10	10	5	25	5	10	10	10	5
Z MAXIMUM	-2.827E+04	5.962E+05	3.131E+05	9.537E-07	-3.945E+07	7.512E+07	-2.827E+04	5.962E+05	3.131E+05	9.537E-07	1.335E-05	-5.341E-05
GRAND TOTAL	1.980E+05	6.689E+05	7.328E+05	1.304E-06	9.233E+07	8.428E+07	1.980E+05	6.689E+05	7.328E+05	1.304E-06	2.161E-05	5.393E-05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (26)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	9	3	9	3	9	3	9	3	9	3
X MAXIMUM	5.636E+05	-2.087E+05	1.067E+05	5.516E+06	-1.253E+07	-3.438E+07	5.636E+05	-2.087E+05	1.067E+05	5.516E+06	-8.686E+06	-2.686E+07
Y	12	12	4	14	4	12	12	12	4	14	4	12
Y MAXIMUM	-2.011E+05	4.481E+04	-5.421E+03	-3.090E+05	6.342E+05	7.406E+06	-2.011E+05	4.481E+04	-5.421E+03	-3.090E+05	4.390E+05	5.792E+06
Z	10	10	5	5	5	10	10	10	5	5	5	10
Z MAXIMUM	-4.056E+04	9.456E+04	3.029E+05	1.692E+07	-3.634E+07	1.619E+07	-4.056E+04	9.456E+04	3.029E+05	1.692E+07	-2.543E+07	1.278E+07
GRAND TOTAL	8.959E+05	2.599E+05	3.356E+05	1.819E+07	4.001E+07	4.301E+07	8.959E+05	2.599E+05	3.356E+05	1.819E+07	2.794E+07	3.366E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (27)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	9	3	9	3	9	3	9	3	9	3
X MAXIMUM	5.636E+05	-2.087E+05	1.067E+05	5.516E+06	-1.253E+07	-3.438E+07	5.636E+05	-2.087E+05	1.067E+05	5.516E+06	-8.686E+06	-2.686E+07
Y	12	12	4	14	4	12	12	12	4	14	4	12
Y MAXIMUM	-2.011E+05	4.481E+04	-5.421E+03	-3.090E+05	6.342E+05	7.406E+06	-2.011E+05	4.481E+04	-5.421E+03	-3.090E+05	4.390E+05	5.792E+06
Z	10	10	5	5	5	10	10	10	5	5	5	10
Z MAXIMUM	4.056E+05	-9.456E+04	3.029E+05	1.692E+07	-3.634E+07	-1.619E+07	4.056E+05	-9.456E+04	3.029E+05	1.692E+07	-2.543E+07	-1.278E+07
GRAND TOTAL	8.959E+05	2.599E+05	3.356E+05	1.819E+07	4.001E+07	4.301E+07	8.959E+05	2.599E+05	3.356E+05	1.819E+07	2.794E+07	3.366E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (28)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	9	3	9	3	9	3	9	3	9	3
X MAXIMUM	5.678E+05	-2.096E+05	1.084E+05	5.525E+06	-8.686E+06	-2.687E+07	5.678E+05	-2.096E+05	1.084E+05	5.525E+06	-1.278E+06	-1.254E+07
Y	12	12	4	14	4	12	12	12	4	14	4	12
Y MAXIMUM	-2.014E+05	4.516E+04	-5.504E+03	-2.833E+05	4.390E+05	5.793E+06	-2.014E+05	4.516E+04	-5.504E+03	-2.833E+05	-2.209E+05	2.706E+06
Z	10	10	5	5	5	10	10	10	5	5	5	10
Z MAXIMUM	-4.067E+04	9.527E+04	3.076E+05	1.690E+07	-2.543E+07	1.279E+07	-4.067E+04	9.527E+04	3.076E+05	1.690E+07	-4.400E+06	6.273E+06
GRAND TOTAL	8.992E+05	2.616E+05	3.406E+05	1.815E+07	2.794E+07	3.368E+07	8.992E+05	2.616E+05	3.406E+05	1.815E+07	4.769E+06	1.584E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (29)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	9	28	28	28	9	3	9	28	28	28
X MAXIMUM	-1.634E+06	2.569E+05	9.946E-03	-1.412E+00	-2.705E+00	1.798E+07	-1.634E+06	2.569E+05	9.946E-03	-1.412E+00	-1.995E+00	-5.900E+05
Y	14	14	28	28	28	14	14	14	28	28	28	14
Y MAXIMUM	5.727E+04	-1.014E+05	5.776E-04	-8.198E-02	-1.571E-01	-1.731E+06	5.727E+04	-1.014E+05	5.776E-04	-8.198E-02	-1.159E-01	5.507E+04
Z	20	20	5	5	5	20	20	20	5	5	5	20
Z MAXIMUM	8.780E-03	-1.334E-03	-1.967E+05	4.409E+06	-5.399E+06	-1.262E+01	8.780E-03	-1.334E-03	-1.967E+05	4.409E+06	-1.945E+07	-3.091
GRAND TOTAL	1.643E+06	2.917E+05	2.224E+05	4.551E+06	5.920E+06	1.831E+07	1.643E+06	2.917E+05	2.224E+05	4.551E+06	2.174E+07	7.011

	9	9	3	3	3	9	9	9	3	3	3	9	
X	MUM	5.678E+05	-2.096E+05	-1.084E+05	-5.525E+06	8.686E+06	-2.687E+07	5.678E+05	-2.096E+05	-1.084E+05	-5.525E+06	1.278E+06	-1.2
Y		12	12	4	4	4	12	12	12	4	4	14	12
Y	MAXIMUM	-2.014E+05	4.516E+04	5.504E+03	2.833E+05	-4.390E+05	5.793E+06	-2.014E+05	4.516E+04	5.504E+03	2.833E+05	2.209E+05	2.706E+06
Z		10	10	5	5	5	10	10	10	5	5	5	10
Z	MAXIMUM	4.067E+05	-9.527E+04	3.076E+05	1.690E+07	-2.543E+07	-1.279E+07	4.067E+05	-9.527E+04	3.076E+05	1.690E+07	-4.400E+06	-6.273E+06
GRAND	TOTAL	8.992E+05	2.616E+05	3.406E+05	1.815E+07	2.794E+07	3.368E+07	8.992E+05	2.616E+05	3.406E+05	1.815E+07	4.769E+06	1.584E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (31)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)	
X		9	9	3	3	3	9	9	9	3	3	3	
X	MAXIMUM	5.755E+05	-2.127E+05	1.103E+05	5.526E+06	-1.278E+06	-1.254E+07	5.755E+05	-2.127E+05	1.103E+05	5.526E+06	6.264E+06	2.001E+06
Y		12	12	4	4	14	12	12	12	4	4	12	
Y	MAXIMUM	-2.018E+05	4.633E+04	-5.597E+03	-2.833E+05	-2.209E+05	2.706E+06	-2.018E+05	4.633E+04	-5.597E+03	-2.833E+05	3.385E+05	-4.627E+05
Z		10	10	5	5	5	10	10	10	5	5	5	
Z	MAXIMUM	-4.097E+05	9.777E+04	3.134E+05	1.690E+07	-4.400E+06	6.274E+06	-4.097E+05	9.777E+04	3.134E+05	1.690E+07	1.703E+07	-1.591E+06
GRAND	TOTAL	9.052E+05	2.669E+05	3.458E+05	1.815E+07	4.769E+06	1.584E+07	9.052E+05	2.669E+05	3.458E+05	1.815E+07	1.904E+07	2.971E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (32)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)	
X		9	9	28	28	28	9	9	9	28	28	28	
X	MAXIMUM	-1.618E+06	2.589E+05	5.448E-02	-1.412E+00	-1.995E+00	-5.900E+05	-1.618E+06	2.589E+05	5.448E-02	-1.412E+00	2.417E+00	-2.134E+07
Y		14	14	28	28	28	14	14	14	28	28	28	
Y	MAXIMUM	5.736E+04	-1.053E+05	3.164E-03	-8.198E-02	-1.159E-01	5.507E+06	5.736E+04	-1.053E+05	3.164E-03	-8.198E-02	1.404E-01	1.404E+07
Z		20	20	5	5	5	20	20	20	5	5	5	
Z	MAXIMUM	9.026E-03	-2.256E-03	-1.971E+05	4.409E+06	-1.945E+07	-3.092E-02	9.026E-03	-2.256E-03	-1.971E+05	4.409E+06	-3.541E+07	1.519E-01
GRAND	TOTAL	1.628E+06	2.957E+05	2.163E+05	4.551E+06	2.174E+07	7.016E+06	1.628E+06	2.957E+05	2.163E+05	4.551E+06	3.923E+07	2.820E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (33)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)	
X		9	9	3	3	3	9	9	9	3	3	3	
X	MAXIMUM	5.755E+05	-2.127E+05	-1.103E+05	-5.526E+06	1.278E+06	-1.254E+07	5.755E+05	-2.127E+05	-1.103E+05	-5.526E+06	6.264E+06	2.001E+06
Y		12	12	4	4	14	12	12	12	4	4	12	
Y	MAXIMUM	-2.018E+05	4.633E+04	5.597E+03	2.833E+05	2.209E+05	2.706E+06	-2.018E+05	4.633E+04	5.597E+03	2.833E+05	-3.385E+05	-4.627E+05
Z		10	10	5	5	5	10	10	10	5	5	5	
Z	MAXIMUM	4.097E+05	-9.777E+04	3.134E+05	1.690E+07	-4.400E+06	6.274E+06	4.097E+05	-9.777E+04	3.134E+05	1.690E+07	1.703E+07	1.591E+06
GRAND	TOTAL	9.052E+05	2.669E+05	3.458E+05	1.815E+07	4.769E+06	1.584E+07	9.052E+05	2.669E+05	3.458E+05	1.815E+07	1.904E+07	2.971E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (34)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)	
X		9	3	9	3	3	9	9	9	3	3	3	
X	MAXIMUM	5.808E+05	-1.106E+05	-2.134E+05	5.525E+06	-2.006E+06	6.264E+06	5.667E+05	-1.289E+05	-2.134E+05	5.393E+06	-4.986E+06	7.986E+06
Y		12	4	12	4	12	12	12	14	12	14	4	
Y	MAXIMUM	-2.019E+05	5.608E+03	4.661E+04	-2.831E+05	4.634E+05	3.385E+05	-1.958E+05	-4.944E+04	4.661E+04	-4.522E+05	1.127E+06	-4.072E+05
Z		10	5	10	5	5	10	10	5	10	5	5	
Z	MAXIMUM	-4.121E+05	-3.145E+05	9.883E+04	1.689E+07	1.669E+06	1.703E+07	-3.827E+05	-3.065E+05	9.883E+04	1.681E+07	-2.312E+06	2.190E+07
GRAND	TOTAL	9.091E+05	3.457E+05	2.684E+05	1.814E+07	3.022E+06	1.904E+07	8.799E+05	4.141E+05	2.684E+05	1.815E+07	6.730E+06	2.444E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (34)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		9	9	9	3	3
X	MAXIMUM	5.145E+05	-2.703E+05	-2.134E+05	4.872E+06	-7.594E+06
Y		12	12	12	14	12
Y	MAXIMUM	-1.765E+05	9.811E+04	4.661E+04	-7.740E+05	1.715E+06
Z		10	5	10	5	5
Z	MAXIMUM	-3.276E+05	-2.780E+05	9.483E+04	1.571E+07	-6.138E+06
GRAND	TOTAL	8.016E+05	5.506E+05	2.684E+05	1.736E+07	1.166E+07

GRAND TOTAL 8.016E+05 5.506E+05 2.684E+05 1.736E+07 1.166E+07 3.028E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (35)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	9	3	9	3	9	3	9	9	3	9	3
X MAXIMUM	5.808E+05	-1.106E+05	2.134E+05	-5.525E+06	2.005E+06	6.264E+06	5.667E+05	-1.289E+05	2.134E+05	-5.393E+06	4.966E+06	7.986E+06
Y	12	4	12	4	12	12	12	14	12	14	12	4
Y MAXIMUM	-2.019E+05	5.608E+03	-4.661E+04	2.831E+05	-4.634E+05	3.385E+05	-1.958E+05	4.944E+04	-4.661E+04	4.522E+05	-1.127E+06	-4.072E+05
Z	10	5	10	5	5	5	10	5	10	5	5	5
Z MAXIMUM	4.121E+05	3.145E+05	9.883E+04	1.689E+07	1.663E+06	-1.703E+07	3.827E+05	3.065E+05	9.883E+04	1.681E+07	-2.312E+06	-2.190E+07
GRAND TOTAL	9.091E+05	3.457E+05	2.684E+05	1.814E+07	3.022E+06	1.904E+07	8.799E+05	4.141E+05	2.684E+05	1.815E+07	6.730E+06	2.444E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (35)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	9	3
X MAXIMUM	5.145E+05	-2.703E+05	2.134E+05	-4.872E+06	7.594E+06	9.624E+06
Y	12	12	12	14	12	14
Y MAXIMUM	-1.765E+05	9.811E+04	-4.661E+04	7.740E+05	-1.715E+06	1.395E+06
Z	10	5	10	5	5	5
Z MAXIMUM	3.276E+05	2.780E+05	9.883E+04	1.571E+07	-6.134E+06	-2.649E+07
GRAND TOTAL	8.016E+05	5.506E+05	2.684E+05	1.736E+07	1.166E+07	3.028E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (36)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	9	3	9	9	9	9	3	9	9
X MAXIMUM	5.160E+05	-2.941E+04	-5.833E+05	4.875E+06	9.624E+06	7.597E+06	5.160E+05	-2.941E+04	-5.833E+05	4.875E+06	7.591E+07	1.153E+07
Y	12	21	12	14	14	12	12	21	12	14	12	21
Y MAXIMUM	-1.766E+05	1.573E+05	-9.174E+04	-7.727E+05	1.395E+06	-1.715E+06	-1.766E+05	1.573E+05	-9.174E+04	-7.727E+05	1.346E+07	-2.032E+07
Z	10	10	10	5	5	5	10	10	10	5	10	10
Z MAXIMUM	-3.292E+05	-4.623E+05	-9.444E+05	1.571E+07	2.649E+07	6.124E+06	-3.292E+05	-4.623E+05	-9.444E+05	1.571E+07	-1.351E+08	5.872E+07
GRAND TOTAL	8.031E+05	6.237E+05	1.174E+06	1.737E+07	3.022E+07	1.165E+07	8.031E+05	6.237E+05	1.174E+06	1.737E+07	1.679E+08	8.021E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (37)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	28	28	28	9	9	9	28	28	9
X MAXIMUM	-1.609E+06	3.475E+05	-4.186E-02	-1.412E+00	2.417E+00	-2.134E+07	-1.609E+06	3.475E+05	-4.186E-02	-1.412E+00	-1.601E+00	-5.469E+07
Y	14	21	28	28	28	14	14	21	28	28	30	21
Y MAXIMUM	5.737E+04	1.831E+05	-2.431E-03	-8.198E-02	1.404E-01	1.404E+07	5.737E+04	1.831E+05	-2.431E-03	-8.198E-02	-1.470E-01	-1.836E+07
Z	20	20	10	5	5	20	20	20	10	5	10	20
Z MAXIMUM	9.003E-03	-1.848E-03	-1.092E+06	4.409E+06	-3.541E+07	1.519E-01	9.003E-03	-1.848E-03	-1.092E+06	4.409E+06	-1.209E+08	3.293E-01
GRAND TOTAL	1.619E+06	4.832E+05	1.199E+06	4.551E+06	3.923E+07	2.820E+07	1.619E+06	4.832E+05	1.199E+06	4.551E+06	1.461E+08	6.826E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (38)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	9	3	9	9	9	9	3	9	9
X MAXIMUM	5.160E+05	-2.941E+04	5.833E+05	-4.875E+06	-9.624E+06	7.597E+06	5.160E+05	-2.941E+04	5.833E+05	-4.875E+06	7.591E+07	1.153E+07
Y	12	21	12	14	14	12	12	21	12	14	12	21
Y MAXIMUM	-1.766E+05	1.573E+05	9.174E+04	7.727E+05	-1.395E+06	-1.715E+06	-1.766E+05	1.573E+05	9.174E+04	7.727E+05	1.346E+07	-2.032E+07
Z	10	10	10	5	5	5	10	10	10	5	10	10
Z MAXIMUM	3.292E+05	4.623E+05	-9.444E+05	1.571E+07	2.649E+07	-6.124E+06	3.292E+05	4.623E+05	-9.444E+05	1.571E+07	-1.351E+08	-5.872E+07
GRAND TOTAL	8.031E+05	6.237E+05	1.174E+06	1.737E+07	3.028E+07	1.165E+07	8.031E+05	6.237E+05	1.174E+06	1.737E+07	1.679E+08	8.021E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (39)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	9	3	9	9	9	9	3	9	9
X MAXIMUM	8.404E-02	-1.080E-02	-1.173E+06	4.017E-06	2.252E+08	-5.913E+00	8.404E-02	-3.080E-02	-1.173E+06	4.017E-06	-1.717E-05	-4.200E-06

Z UM 1.042E-03 1.628E+06 2.344E-02-4.604E-07-4.500E+00 3.125E+08 1.042E-03 1.628E+06 2.344E-02-4.604E-07-1.172E-06-7.62
GR TOTAL 5.980E+05 1.673E+06 1.273E+06 4.113E-06 2.444E+08 3.213E+08 5.980E+05 1.673E+06 1.273E+06 4.113E-06 2.123E-05 7.661E-05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (40)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	29	29	9	9	9	9	29	29	29	9	9	29
X MAXIMUM	-6.735E-02	-1.662E-02	1.158E+06	-6.119E-06	-1.586E+08	-6.268E+00	-6.735E-02	-1.662E-02	1.158E+06	-6.119E-06	-6.128E+07	-4.871E+00
Y	21	30	29	12	30	30	21	30	29	12	30	30
Y MAXIMUM	3.544E+05	1.634E-03	-6.292E-03	3.550E-08	8.433E+00	6.051E-01	3.544E+05	1.634E-03	-6.292E-03	3.550E-08	8.952E+00	4.179E-01
Z	20	10	29	10	29	10	20	10	29	10	29	10
Z MAXIMUM	-8.346E-04	1.097E+06	-2.636E-02	9.207E-07	4.953E+00	1.418E+08	-8.346E-04	1.097E+06	-2.636E-02	9.207E-07	2.739E+00	4.970E+07
GRAND TOTAL	6.491E+05	1.227E+06	1.323E+06	6.463E-06	1.837E+08	1.642E+08	6.491E+05	1.227E+06	1.323E+06	6.463E-06	7.269E+07	6.189E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (41)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	29	29	9	9	9	9	29	29	29	9	9	29
X MAXIMUM	-2.982E-02	-2.814E-02	4.770E+05	2.001E-06	-6.128E+07	-4.871E+00	-2.982E-02	-2.814E-02	4.770E+05	2.001E-06	-2.694E+07	-2.845E+00
Y	21	30	30	14	30	30	21	30	30	14	30	30
Y MAXIMUM	1.479E+05	2.708E-03	-4.594E-02	-8.750E-09	8.952E+00	4.679E-01	1.479E+05	2.708E-03	-4.594E-02	-8.750E-09	5.644E+00	2.729E-01
Z	20	10	29	5	29	10	20	10	29	5	29	10
Z MAXIMUM	-3.695E-04	4.067E+05	-1.815E-02	1.975E-07	2.739E+00	4.970E+07	-3.695E-04	4.067E+05	-1.815E-02	1.975E-07	1.432E+00	2.041E+07
GRAND TOTAL	2.710E+05	4.871E+05	5.592E+05	2.357E-06	7.269E+07	6.189E+07	2.710E+05	4.871E+05	5.592E+05	2.357E-06	3.244E+07	2.696E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (42)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	29	29	9	9	9	9	29	29	29	9	9	9
X MAXIMUM	-1.331E-02	-2.156E-02	2.041E+05	-1.189E-06	-2.694E+07	-2.845E+00	-1.331E-02	-2.156E-02	2.041E+05	-1.189E-06	1.144E-05	1.750E-06
Y	21	30	30	12	30	30	21	30	30	12	14	21
Y MAXIMUM	6.393E+04	2.068E-03	-4.276E-02	-1.434E-08	5.644E+00	2.729E-01	6.393E+04	2.068E-03	-4.276E-02	-1.434E-08	-1.134E-07	-5.742E-08
Z	20	10	29	10	29	10	20	10	29	10	10	10
Z MAXIMUM	-1.650E-04	1.546E+05	-1.085E-02	-1.256E-07	1.432E+00	2.041E+07	-1.650E-04	1.546E+05	-1.085E-02	-1.256E-07	1.820E-06	-1.907E-05
GRAND TOTAL	1.171E+05	2.043E+05	2.458E+05	1.308E-06	3.244E+07	2.696E+07	1.171E+05	2.043E+05	2.458E+05	1.308E-06	1.883E-05	2.441E-05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (43)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	9	9	9	9	9	3	3	9
X MAXIMUM	-5.160E+05	-2.941E+04	-5.833E+05	4.875E+06	7.591E+07	-1.153E+07	-5.160E+05	-2.941E+04	-5.833E+05	4.875E+06	-9.624E+06	-7.597E+06
Y	12	21	12	14	12	21	12	21	12	14	14	12
Y MAXIMUM	-1.766E+05	-1.573E+05	9.174E+04	7.727E+05	-1.346E+07	-2.032E+07	-1.766E+05	-1.573E+05	9.174E+04	7.727E+05	1.395E+06	-1.715E+06
Z	10	10	10	5	10	10	10	10	10	5	5	5
Z MAXIMUM	-3.292E+05	4.623E+05	9.444E+05	-1.571E+07	-1.351E+08	5.872E+07	-3.292E+05	4.623E+05	9.444E+05	-1.571E+07	2.649E+07	6.124E+06
GRAND TOTAL	8.031E+05	6.237E+05	1.174E+06	1.737E+07	1.679E+08	8.021E+07	8.031E+05	6.237E+05	1.174E+06	1.737E+07	3.028E+07	1.165E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (44)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	28	28	28	9	9	9	28	28	9
X MAXIMUM	1.609E+06	3.475E+05	-4.179E-02	-1.412E+00	1.586E+00	5.469E+07	1.609E+06	3.475E+05	-4.179E-02	-1.412E+00	-2.426E+00	2.134E+07
Y	14	21	28	28	28	21	14	21	28	28	28	14
Y MAXIMUM	5.737E+04	-1.831E+05	-2.427E-03	-8.201E-02	9.210E-02	-1.836E+07	5.737E+04	-1.831E+05	-2.427E-03	-8.201E-02	-1.409E-01	1.404E+07
Z	29	30	10	5	10	30	29	30	10	5	5	29
Z MAXIMUM	-8.825E-03	-5.924E-04	1.092E+06	-4.409E+06	-1.204E+08	-1.031E-01	-8.825E-03	-5.924E-04	1.092E+06	-4.409E+06	-3.541E+07	-4.942E-02
GRAND TOTAL	1.619E+06	4.832E+05	1.199E+06	4.551E+06	1.461E+08	6.826E+07	1.619E+06	4.832E+05	1.199E+06	4.551E+06	3.923E+07	2.820E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (45)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	9	9	9	9	9	3	3	9
X MAXIMUM	-5.160E+05	-2.941E+04	-5.833E+05	4.875E+06	7.591E+07	-1.153E+07	-5.160E+05	-2.941E+04	-5.833E+05	4.875E+06	-9.624E+06	-7.597E+06

X 9 9 9 3 9 9 9 9 9 3 3 9
X MAXIMUM -5.160E+05-2.941E+04 5.833E+05-4.875E+06-7.591E+07-1.153E+07-5.160E+05-2.941E+04 5.833E+05-4.875E+06 9.624E+06-7.597E+06

Y 12 21 12 14 12 21 12 21 12 14 14 12
Y MAXIMUM -1.766E+05-1.573E+05-9.174E+04-7.727E+05 1.346E+07-2.032E+07-1.766E+05-1.573E+05-9.174E+04-7.727E+05-1.395E+06-1.715E+06
Z 10 10 10 5 10 10 10 10 10 5 5 5
Z MAXIMUM 3.292E+05-4.623E+05 9.444E+05-1.571E+07-1.351E+08-5.872E+07 3.292E+05-4.623E+05 9.444E+05-1.571E+07 2.649E+07-6.124E+06
GRAND TOTAL 8.031E+05 6.237E+05 1.174E+06 1.737E+07 1.679E+08 8.021E+07 8.031E+05 6.237E+05 1.174E+06 1.737E+07 3.028E+07 1.165E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (46)

PX(I) VY(I) VZ(I) TX(I) MY(I) MZ(I) PX(C) VY(C) VZ(C) TX(C) MY(C) MZ(C)
X 9 3 9 3 9 3 9 9 9 3 9 3
X MAXIMUM -5.808E+05 1.106E+05-2.134E+05 5.525E+06-2.006E+06-6.264E+06-5.667E+05 1.289E+05-2.134E+05 5.393E+06-4.966E+06-7.986E+06
Y 12 4 12 4 12 12 12 14 12 14 12 4
Y MAXIMUM -2.019E+05 5.608E+03-4.661E+04 2.831E+05-4.634E+05 3.385E+05-1.958E+05-4.944E+04-4.661E+04 4.522E+05-1.127E+06-4.072E+05
Z 10 5 10 5 5 5 10 5 10 5 5 5
Z MAXIMUM -4.121E+05-3.145E+05-9.883E+04-1.689E+07-1.669E+06 1.703E+07-3.827E+05-3.065E+05-9.883E+04-1.681E+07 2.312E+06 2.190E+07
GRAND TOTAL 9.091E+05 3.457E+05 2.684E+05 1.814E+07 3.022E+06 1.904E+07 8.799E+05 4.141E+05 2.684E+05 1.815E+07 6.730E+06 2.444E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (46)

PX(J) VY(J) VZ(J) TX(J) MY(J) MZ(J)
X 9 9 9 3 9 3
X MAXIMUM -5.145E+05 2.703E+05-2.134E+05 4.872E+06-7.594E+06-9.624E+06
Y 12 12 12 14 12 14
Y MAXIMUM -1.765E+05 9.811E+04-4.661E+04 7.740E+05-1.715E+06 1.395E+06
Z 10 5 10 5 5 5
Z MAXIMUM -3.276E+05-2.780E+05-9.883E+04-1.571E+07 6.138E+06 2.649E+07
GRAND TOTAL 8.016E+05 5.506E+05 2.684E+05 1.736E+07 1.166E+07 3.028E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (47)

PX(I) VY(I) VZ(I) TX(I) MY(I) MZ(I) PX(C) VY(C) VZ(C) TX(C) MY(C) MZ(C)
X 9 3 9 3 9 3 9 9 9 3 9 3
X MAXIMUM -5.808E+05 1.106E+05 2.134E+05-5.525E+06 2.006E+06-6.264E+06-5.667E+05 1.289E+05 2.134E+05-5.393E+06 4.966E+06-7.986E+06
Y 12 4 12 4 12 12 12 14 12 14 12 4
Y MAXIMUM -2.019E+05 5.608E+03 4.661E+04-2.831E+05 4.634E+05 3.385E+05-1.958E+05-4.944E+04 4.661E+04-4.522E+05 1.127E+06-4.072E+05
Z 10 5 10 5 5 5 10 5 10 5 5 5
Z MAXIMUM 4.121E+05 3.145E+05-9.883E+04-1.689E+07-1.669E+06-1.703E+07 3.827E+05 3.065E+05-9.883E+04-1.681E+07 2.312E+06-2.190E+07
GRAND TOTAL 9.091E+05 3.457E+05 2.684E+05 1.814E+07 3.022E+06 1.904E+07 8.799E+05 4.141E+05 2.684E+05 1.815E+07 6.730E+06 2.444E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (47)

PX(J) VY(J) VZ(J) TX(J) MY(J) MZ(J)
X 9 9 9 3 9 3
X MAXIMUM -5.145E+05 2.703E+05 2.134E+05-4.872E+06 7.594E+06-9.624E+06
Y 12 12 12 14 12 14
Y MAXIMUM -1.765E+05 9.811E+04 4.661E+04-7.740E+05 1.715E+06 1.395E+06
Z 10 5 10 5 5 5
Z MAXIMUM 3.276E+05 2.780E+05-9.883E+04-1.571E+07 6.138E+06-2.649E+07
GRAND TOTAL 8.016E+05 5.506E+05 2.684E+05 1.736E+07 1.166E+07 3.028E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (48)

PX(I) VY(I) VZ(I) TX(I) MY(I) MZ(I) PX(J) VY(J) VZ(J) TX(J) MY(J) MZ(J)
X 9 3 9 3 9 3 9 9 9 3 9 3
X MAXIMUM -5.755E+05-2.127E+05 1.103E+05 5.526E+06-6.264E+06-2.001E+06-5.755E+05-2.127E+05 1.103E+05 5.526E+06 1.278E+06 1.254E+07
Y 12 12 4 4 12 12 12 12 4 4 14 12
Y MAXIMUM -2.018E+05-4.633E+04 5.597E+03 2.833E+05 3.385E+05-4.627E+05-2.018E+05-4.633E+04 5.597E+03 2.833E+05-2.209E+05 2.701E+07
Z 10 5 5 5 5 5 10 10 5 5 5 5
Z MAXIMUM -4.097E+05-9.777E+04-3.134E+05-1.690E+07 1.703E+07-1.591E+06-4.097E+05-9.777E+04-3.134E+05-1.690E+07-4.400E+06 6.27E+07
GRAND TOTAL 9.052E+05 2.669E+05 3.458E+05 1.815E+07 1.904E+07 2.971E+06 9.052E+05 2.669E+05 3.458E+05 1.815E+07 4.769E+06 1.584E+07

	(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		9	9	28	28	28	9	9	9	28	28	28
X MAXIMUM	1.618E+06	2.589E+05	5.459E-02	-1.412E+00	-2.426E+00	2.134E+07	1.618E+06	2.589E+05	5.459E-02	-1.412E+00	1.995E+00	5.900E+05
Y	14	14	28	28	28	14	14	14	28	28	28	14
Y MAXIMUM	5.736E+04	1.053E+05	3.170E-03	-8.201E-02	-1.409E-01	1.404E+07	5.736E+04	1.053E+05	3.170E-03	-8.201E-02	1.159E-01	5.507E+06
Z	29	29	5	5	5	29	29	29	5	5	5	29
Z MAXIMUM	-8.779E-03	-8.787E-04	1.971E+05	-4.409E+06	-3.541E+07	-4.942E-02	-8.779E-03	-8.787E-04	1.971E+05	-4.409E+06	-1.945E+07	2.175E-02
GRAND TOTAL	1.628E+06	2.957E+05	2.163E+05	4.551E+06	3.923E+07	2.820E+07	1.628E+06	2.957E+05	2.163E+05	4.551E+06	2.174E+07	7.016E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (50)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	3	9	9	9	3	3	3	9
X MAXIMUM	-5.755E+05	-2.127E+05	-1.103E+05	-5.526E+06	6.264E+06	-2.001E+06	-5.755E+05	-2.127E+05	-1.103E+05	-5.526E+06	-1.278E+06	1.254E+07
Y	12	12	4	4	4	12	12	12	4	4	4	12
Y MAXIMUM	-2.018E+05	-4.633E+04	-5.597E+03	-2.833E+05	-3.385E+05	-4.627E+05	-2.018E+05	-4.633E+04	-5.597E+03	-2.833E+05	2.209E+05	2.706E+06
Z	10	10	5	5	5	10	10	10	5	5	5	10
Z MAXIMUM	4.097E+05	9.777E+04	-3.134E+05	-1.690E+07	1.703E+07	1.591E+06	4.097E+05	9.777E+04	-3.134E+05	-1.690E+07	-4.400E+06	-6.274E+06
GRAND TOTAL	9.052E+05	2.669E+05	3.458E+05	1.815E+07	1.904E+07	2.971E+06	9.052E+05	2.669E+05	3.458E+05	1.815E+07	4.769E+06	1.584E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (51)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	3	9	9	9	3	3	3	9
X MAXIMUM	-5.678E+05	-2.096E+05	1.084E+05	5.525E+06	1.278E+06	1.254E+07	-5.678E+05	-2.096E+05	1.084E+05	5.525E+06	8.686E+06	2.687E+07
Y	12	12	4	4	4	12	12	12	4	4	4	12
Y MAXIMUM	-2.014E+05	-4.516E+04	5.504E+03	2.833E+05	-2.209E+05	2.706E+06	-2.014E+05	-4.516E+04	5.504E+03	2.833E+05	4.390E+05	5.793E+06
Z	10	10	5	5	5	10	10	10	5	5	5	10
Z MAXIMUM	-4.067E+05	-9.527E+04	-3.076E+05	-1.590E+07	-4.400E+06	6.273E+06	-4.067E+05	-9.527E+04	-3.076E+05	-1.590E+07	-2.543E+07	1.279E+07
GRAND TOTAL	8.992E+05	2.616E+05	3.406E+05	1.815E+07	4.769E+06	1.584E+07	8.992E+05	2.616E+05	3.406E+05	1.815E+07	2.794E+07	3.368E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (52)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	28	28	28	9	9	9	28	28	28	9
X MAXIMUM	1.634E+06	2.569E+05	1.000E-02	-1.412E+00	1.995E+00	5.900E+05	1.634E+06	2.569E+05	1.000E-02	-1.412E+00	2.709E+00	-1.798E+07
Y	14	14	28	28	28	14	14	14	28	28	28	14
Y MAXIMUM	5.727E+04	1.014E+05	5.808E-04	-8.201E-02	1.159E-01	5.507E+06	5.727E+04	1.014E+05	5.808E-04	-8.201E-02	1.573E-01	-1.731E+06
Z	29	29	5	5	5	29	29	29	5	5	5	29
Z MAXIMUM	-8.594E-03	-6.867E-04	1.967E+05	-4.409E+06	-1.945E+07	2.175E-02	-8.594E-03	-6.867E-04	1.967E+05	-4.409E+06	-5.399E+06	7.078E-02
GRAND TOTAL	1.643E+06	2.917E+05	2.224E+05	4.551E+06	2.174E+07	7.016E+06	1.643E+06	2.917E+05	2.224E+05	4.551E+06	5.920E+06	1.831E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (53)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	3	9	9	9	3	3	3	9
X MAXIMUM	-5.678E+05	-2.096E+05	-1.084E+05	-5.525E+06	-1.278E+06	1.254E+07	-5.678E+05	-2.096E+05	-1.084E+05	-5.525E+06	-8.686E+06	2.687E+07
Y	12	12	4	4	4	12	12	12	4	4	4	12
Y MAXIMUM	-2.014E+05	-4.516E+04	-5.504E+03	-2.833E+05	2.209E+05	2.706E+06	-2.014E+05	-4.516E+04	-5.504E+03	-2.833E+05	4.390E+05	5.793E+06
Z	10	10	5	5	5	10	10	10	5	5	5	10
Z MAXIMUM	4.067E+05	9.527E+04	-3.076E+05	-1.590E+07	-4.400E+06	6.273E+06	4.067E+05	9.527E+04	-3.076E+05	-1.590E+07	-2.543E+07	-1.279E+07
GRAND TOTAL	8.992E+05	2.616E+05	3.406E+05	1.815E+07	4.769E+06	1.584E+07	8.992E+05	2.616E+05	3.406E+05	1.815E+07	2.794E+07	3.368E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (54)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	3	3	9	9	9	3	3	3	9
X MAXIMUM	-5.636E+05	-2.087E+05	1.067E+05	5.516E+06	8.686E+06	2.686E+07	-5.636E+05	-2.087E+05	1.067E+05	5.516E+06	1.253E+07	3.438E+07
Y	12	12	4	4	4	12	12	12	4	4	4	12
Y MAXIMUM	-2.011E+05	-4.481E+04	5.421E+03	3.090E+05	4.390E+05	5.792E+06	-2.011E+05	-4.481E+04	5.421E+03	3.090E+05	6.342E+05	7.406E+06
Z	10	10	5	5	5	10	10	10	5	5	5	10
Z MAXIMUM	-4.056E+05	-9.456E+04	-3.029E+05	-1.692E+07	-2.543E+07	1.278E+07	-4.056E+05	-9.456E+04	-3.029E+05	-1.692E+07	-3.634E+07	1.619E+07
GRAND TOTAL	8.959E+05	2.599E+05	3.356E+05	1.819E+07	2.794E+07	3.368E+07	8.959E+05	2.599E+05	3.356E+05	1.819E+07	4.001E+07	4.301E+07

Z MAXIMUM -4.056E+05-9.456E+04-3.029E+05-1.692E+07-2.543E+07 1.278E+07-4.056E+05-9.456E+04-3.029E+05-1.692E+07-3.634E+07 1.619E+07
 GRAND TOTAL 8.959E+05 2.599E+05 3.356E+05 1.819E+07 2.794E+07 3.366E+07 8.959E+05 2.599E+05 3.356E+05 1.819E+07 4.001E+07 4.301E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (55)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	3	3	9	9	9	3	3	9
X MAXIMUM	-5.636E+05	-2.087E+05	-1.067E+05	-5.516E+06	-8.686E+06	2.686E+07	-5.636E+05	-2.087E+05	-1.067E+05	-5.516E+06	-1.253E+07	3.438E+07
Y	12	12	12	4	14	4	12	12	12	4	14	12
Y MAXIMUM	-2.011E+05	-4.481E+04	-5.421E+03	-3.090E+05	-4.390E+05	5.792E+06	-2.011E+05	-4.481E+04	-5.421E+03	-3.090E+05	-6.342E+05	7.406E+06
Z	10	10	10	5	5	5	10	10	10	5	5	10
Z MAXIMUM	4.056E+05	9.456E+04	-3.029E+05	-1.692E+07	-2.543E+07	-1.278E+07	4.056E+05	9.456E+04	-3.029E+05	-1.692E+07	-3.634E+07	-1.619E+07
GRAND TOTAL	8.959E+05	2.599E+05	3.356E+05	1.819E+07	2.794E+07	3.366E+07	8.959E+05	2.599E+05	3.356E+05	1.819E+07	4.001E+07	4.301E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (56)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	9	0	9	9	9	3	9	0	9
X MAXIMUM	1.489E+04	1.934E+05	4.982E+05	0.	1.597E-05	4.530E-06	1.489E+04	1.934E+05	4.982E+05	0.	6.278E+07	-2.437E+07
Y	21	12	12	12	0	14	21	12	12	12	0	12
Y MAXIMUM	1.438E+05	-4.107E+04	1.412E+05	0.	-1.125E-06	-6.594E-07	1.438E+05	-4.107E+04	1.412E+05	0.	1.779E+07	5.175E+06
Z	25	5	10	10	0	5	25	5	10	10	0	10
Z MAXIMUM	2.827E+04	-5.962E+05	3.131E+05	0.	-4.172E-06	7.629E-06	2.827E+04	-5.962E+05	3.131E+05	0.	3.945E+07	7.512E+07
GRAND TOTAL	1.980E+05	6.689E+05	7.328E+05	0.	1.789E-05	1.112E-05	1.980E+05	6.689E+05	7.328E+05	0.	9.233E+07	8.428E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (57)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	9	0	9	9	9	3	9	0	9
X MAXIMUM	1.489E+04	-1.934E+05	4.982E+05	0.	7.391E-06	4.590E-06	1.489E+04	-1.934E+05	4.982E+05	0.	6.278E+07	2.437E+07
Y	21	12	12	12	0	14	21	12	12	12	0	12
Y MAXIMUM	1.438E+05	4.107E+04	1.412E+05	0.	1.423E-06	2.868E-07	1.438E+05	4.107E+04	1.412E+05	0.	1.779E+07	-5.175E+06
Z	25	5	10	10	0	5	25	5	10	10	0	10
Z MAXIMUM	-2.827E+04	-5.962E+05	-3.131E+05	0.	6.706E-06	-2.527E-05	-2.827E+04	-5.962E+05	-3.131E+05	0.	-3.945E+07	7.512E+07
GRAND TOTAL	1.980E+05	6.689E+05	7.328E+05	0.	1.276E-05	2.669E-05	1.980E+05	6.689E+05	7.328E+05	0.	9.233E+07	8.428E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (58)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	17	3	9	9	9	3	17	3	9
X MAXIMUM	1.767E+05	-1.019E+05	9.174E+04	-8.911E+06	-3.393E+07	-3.554E+07	1.767E+05	-1.019E+05	9.174E+04	-8.911E+06	-1.996E+07	-1.719E+07
Y	21	14	12	12	21	14	21	14	12	12	21	14
Y MAXIMUM	1.918E+05	3.216E+04	-4.391E+04	-4.855E+05	2.096E+06	-1.831E+06	1.918E+05	3.216E+04	-4.391E+04	-4.855E+05	-9.921E+06	-5.139E+06
Z	5	5	5	5	5	5	5	5	5	5	5	5
Z MAXIMUM	1.198E+05	2.362E+05	-8.041E+04	2.233E+07	2.829E+07	1.036E+08	1.198E+05	2.362E+05	-8.041E+04	2.233E+07	-1.865E+07	6.110E+07
GRAND TOTAL	3.615E+05	2.806E+05	2.135E+05	2.570E+07	5.018E+07	1.122E+08	3.615E+05	2.806E+05	2.135E+05	2.570E+07	4.143E+07	6.746E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (59)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	3	17	3	9	9	9	3	17	3	9
X MAXIMUM	1.767E+05	1.019E+05	9.174E+04	8.911E+06	-3.393E+07	3.554E+07	1.767E+05	1.019E+05	9.174E+04	8.911E+06	-1.996E+07	1.719E+07
Y	21	14	12	12	21	14	21	14	12	12	21	14
Y MAXIMUM	1.918E+05	-3.216E+04	-4.391E+04	4.855E+05	2.096E+06	1.831E+06	1.918E+05	-3.216E+04	-4.391E+04	4.855E+05	-9.921E+06	5.139E+06
Z	5	5	5	5	5	5	5	5	5	5	5	5
Z MAXIMUM	-1.198E+05	2.362E+05	8.041E+04	2.233E+07	-2.829E+07	1.036E+08	-1.198E+05	2.362E+05	8.041E+04	2.233E+07	1.865E+07	6.110E+07
GRAND TOTAL	3.615E+05	2.806E+05	2.135E+05	2.570E+07	5.018E+07	1.122E+08	3.615E+05	2.806E+05	2.135E+05	2.570E+07	4.143E+07	6.746E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (60)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	9	3	9	9	9	9	9	3	9
X MAXIMUM	5.183E+04	-3.116E+04	-4.631E+04	-3.618E+06	9.936E+06	-4.706E+06	5.183E+04	-3.116E+04	-4.631E+04	-3.618E+06	6.601E+06	-3.721E+06
Y	14	21	14	14	21	14	14	21	14	14	21	14

Y MAXIMUM -3.422E+04-1.442E+04 1.133E+04 3.426E+05-3.483E+06 2.807E+06-3.422E+04-1.442E+04 1.133E+04 3.426E+05-2.667E+06 1.964E+06

Z MAXIMUM -8.672E+04-1.613E+05-2.817E+04 1.402E+07 5.280E+06-3.090E+06-8.672E+04-1.613E+05-2.817E+04 1.402E+07-5.510E+06 8.522E+06

GRAND TOTAL 1.209E+05 1.715E+05 6.799E+04 1.454E+07 1.442E+07 8.532E+06 1.209E+05 1.715E+05 6.799E+04 1.464E+07 1.057E+07 1.027E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (61)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	9	3	9	9	9	9	3	9	3
X MAXIMUM	5.183E+04	3.116E+04	-4.631E+04	3.618E+06	9.936E+06	4.706E+06	5.183E+04	3.116E+04	-4.631E+04	3.618E+06	6.601E+06	3.721E+06
Y	14	21	14	21	14	14	14	21	14	21	14	14
Y MAXIMUM	-3.422E+04	1.442E+04	1.133E+04	-3.426E+05	-3.483E+06	-2.807E+06	-3.422E+04	1.442E+04	1.133E+04	-3.426E+05	-2.667E+06	-1.964E+06
Z	5	5	10	5	10	5	5	5	10	5	5	5
Z MAXIMUM	8.672E+04	-1.613E+05	2.817E+04	1.402E+07	-5.280E+06	-3.090E+06	8.672E+04	-1.613E+05	2.817E+04	1.402E+07	-5.510E+06	8.522E+06
GRAND TOTAL	1.209E+05	1.715E+05	6.799E+04	1.464E+07	1.442E+07	8.532E+06	1.209E+05	1.715E+05	6.799E+04	1.464E+07	1.057E+07	1.027E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (62)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	9	9	3	3	3	3	9	3	3	9	3
X MAXIMUM	-5.385E+04	5.220E+04	-3.007E+04	-3.048E+06	-1.814E+06	-2.313E+06	2.144E+04	7.499E+04	-3.007E+04	-3.966E+06	-1.443E+06	-3.799E+06
Y	14	14	21	12	21	14	14	14	21	4	21	14
Y MAXIMUM	1.600E+04	-3.424E+04	9.586E+03	1.829E+05	-2.325E+05	2.977E+05	-1.289E+04	-3.552E+04	9.586E+03	-1.981E+05	3.249E+05	2.031E+06
Z	5	5	5	5	5	5	5	10	5	5	5	5
Z MAXIMUM	-1.097E+05	-8.661E+04	1.226E+05	1.084E+07	6.660E+06	1.091E+07	-1.388E+05	3.932E+04	1.226E+05	1.453E+07	2.245E+06	1.266E+07
GRAND TOTAL	1.294E+05	1.208E+05	1.294E+05	1.159E+07	7.025E+06	1.132E+07	1.442E+05	1.060E+05	1.294E+05	1.528E+07	3.058E+06	1.418E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (62)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	3	9
X MAXIMUM	5.218E+04	5.387E+04	-3.007E+04	-3.618E+06	-2.006E+06	-6.754E+06
Y	14	14	21	21	21	14
Y MAXIMUM	-3.423E+04	-1.601E+04	9.586E+03	3.424E+05	6.920E+05	3.312E+06
Z	5	5	5	5	5	5
Z MAXIMUM	-8.665E+04	1.096E+05	1.226E+05	1.402E+07	-3.484E+06	9.529E+06
GRAND TOTAL	1.209E+05	1.294E+05	1.294E+05	1.464E+07	4.683E+06	1.405E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (63)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	9	9	3	3	3	3	9	3	3	9	3
X MAXIMUM	-5.385E+04	5.220E+04	3.007E+04	3.048E+06	1.814E+06	-2.313E+06	2.144E+04	7.499E+04	3.007E+04	3.966E+06	1.443E+06	-3.799E+06
Y	14	14	21	12	21	14	14	14	21	4	21	14
Y MAXIMUM	1.600E+04	-3.424E+04	-9.586E+03	-1.829E+05	2.325E+05	2.977E+05	-1.289E+04	-3.552E+04	-9.586E+03	1.981E+05	-3.249E+05	2.031E+06
Z	5	5	5	5	5	5	5	10	5	5	5	5
Z MAXIMUM	1.097E+05	8.661E+04	1.226E+05	1.084E+07	6.660E+06	-1.091E+07	1.388E+05	-3.932E+04	1.226E+05	1.453E+07	2.245E+06	-1.266E+07
GRAND TOTAL	1.294E+05	1.208E+05	1.294E+05	1.159E+07	7.025E+06	1.132E+07	1.442E+05	1.060E+05	1.294E+05	1.528E+07	3.058E+06	1.418E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (63)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	3	9
X MAXIMUM	5.218E+04	5.387E+04	3.007E+04	3.618E+06	2.006E+06	-6.754E+06
Y	14	14	21	21	21	14
Y MAXIMUM	-3.423E+04	-1.601E+04	9.586E+03	3.424E+05	6.920E+05	3.312E+06
Z	5	5	5	5	5	5
Z MAXIMUM	8.665E+04	-1.096E+05	1.226E+05	1.402E+07	-3.484E+06	9.529E+06
GRAND TOTAL	1.209E+05	1.294E+05	1.294E+05	1.464E+07	4.683E+06	1.405E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (64)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	3	3	3	9	9	9	3	9	3

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		9	9	3	3	3	3	9	9	3	3	3
X MAXIMUM	-5.167E+04	-5.211E+04	-3.014E+04	-3.038E+06	1.814E+06	-2.327E+06	-5.167E+04	-5.211E+04	-3.014E+04	-3.038E+06	1.102E+06	-1.525E+06
Y	14	14	21	12	21	14	14	14	21	12	21	14
Y MAXIMUM	1.472E+04	3.221E+04	3.288E+03	1.832E+05	2.325E+05	2.972E+05	1.472E+04	3.221E+04	3.288E+03	1.832E+05	3.102E+05	-4.636E+05
Z	5	5	5	5	5	5	5	5	5	5	5	5
Z MAXIMUM	-1.107E+05	8.758E+04	1.216E+05	1.079E+07	-6.660E+06	1.096E+07	-1.107E+05	8.758E+04	1.216E+05	1.079E+07	-3.788E+06	8.890E+06
GRAND TOTAL	1.291E+05	1.212E+05	1.269E+05	1.154E+07	7.025E+06	1.137E+07	1.291E+05	1.212E+05	1.269E+05	1.154E+07	4.094E+06	9.236E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (65)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		9	9	3	3	3	3	9	9	3	3	3
X MAXIMUM	-5.167E+04	-5.211E+04	3.014E+04	3.038E+06	-1.814E+06	-2.327E+06	-5.167E+04	-5.211E+04	3.014E+04	3.038E+06	-1.102E+06	-1.525E+06
Y	14	14	21	12	21	14	14	14	21	12	21	14
Y MAXIMUM	1.472E+04	3.221E+04	-3.288E+03	-1.832E+05	-2.325E+05	2.972E+05	1.472E+04	3.221E+04	-3.288E+03	-1.832E+05	-3.102E+05	-4.636E+05
Z	5	5	5	5	5	5	5	5	5	5	5	5
Z MAXIMUM	1.107E+05	-8.758E+04	1.216E+05	1.079E+07	-6.660E+06	-1.096E+07	1.107E+05	-8.758E+04	1.216E+05	1.079E+07	-3.788E+06	-8.890E+06
GRAND TOTAL	1.291E+05	1.212E+05	1.269E+05	1.154E+07	7.025E+06	1.137E+07	1.291E+05	1.212E+05	1.269E+05	1.154E+07	4.094E+06	9.236E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (66)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X		9	9	3	3	9	9	9	3	3	3	9
X MAXIMUM	-5.159E+04	-4.951E+04	-3.020E+04	-7.102E+05	2.084E+06	9.630E+05	-7.149E+04	2.281E+04	-3.020E+04	-1.904E+06	-1.651E+06	2.157E+06
Y	14	14	21	12	12	14	14	14	21	12	12	14
Y MAXIMUM	2.911E+04	1.344E+04	-3.581E+03	-9.862E+04	3.957E+05	-1.403E+06	3.009E+04	-1.108E+04	-3.581E+03	1.479E+05	1.994E+05	-1.462E+06
Z	5	5	5	5	5	5	10	5	5	5	5	5
Z MAXIMUM	8.833E+04	-1.107E+05	1.212E+05	3.485E+06	3.559E+06	-3.098E+06	-4.056E+04	-1.407E+05	1.212E+05	7.112E+06	5.195E+06	3.149E+06
GRAND TOTAL	1.209E+05	1.284E+05	1.272E+05	3.669E+06	4.663E+06	3.734E+06	1.035E+05	1.454E+05	1.272E+05	7.569E+06	5.828E+06	4.466E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (66)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		9	9	3	3	3
X MAXIMUM	-4.951E+04	5.159E+04	-3.020E+04	-3.045E+06	-1.102E+06	-1.511E+06
Y	14	14	21	12	21	14
Y MAXIMUM	1.344E+04	-2.911E+04	-3.581E+03	1.834E+05	-3.102E+05	-4.631E+05
Z	5	5	5	5	5	5
Z MAXIMUM	-1.107E+05	-8.833E+04	1.212E+05	1.083E+07	3.788E+06	8.842E+06
GRAND TOTAL	1.284E+05	1.209E+05	1.272E+05	1.158E+07	4.094E+06	9.185E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (67)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X		9	9	3	3	9	9	9	3	3	3	9
X MAXIMUM	-5.159E+04	-4.951E+04	3.020E+04	7.102E+05	-2.084E+06	9.630E+05	-7.149E+04	2.281E+04	3.020E+04	1.904E+06	1.651E+06	2.157E+06
Y	14	14	21	12	12	14	14	14	21	12	12	14
Y MAXIMUM	2.911E+04	1.344E+04	3.581E+03	9.862E+04	-3.957E+05	-1.403E+06	3.009E+04	-1.108E+04	3.581E+03	-1.479E+05	-1.994E+05	-1.462E+06
Z	5	5	5	5	5	5	10	5	5	5	5	5
Z MAXIMUM	-8.833E+04	1.107E+05	1.212E+05	3.485E+06	3.559E+06	3.098E+06	4.056E+04	1.407E+05	1.212E+05	7.112E+06	5.195E+06	3.149E+06
GRAND TOTAL	1.209E+05	1.284E+05	1.272E+05	3.669E+06	4.663E+06	3.734E+06	1.035E+05	1.454E+05	1.272E+05	7.569E+06	5.828E+06	4.466E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (67)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		9	9	3	3	3
X MAXIMUM	-4.951E+04	5.159E+04	3.020E+04	3.045E+06	1.102E+06	-1.511E+06
Y	14	14	21	12	21	14
Y MUM	1.344E+04	-2.911E+04	3.581E+03	-1.834E+05	3.102E+05	-4.631E+05
Z	5	5	5	5	5	5
Z MUM	1.107E+05	8.833E+04	1.212E+05	1.083E+07	3.788E+06	-8.842E+06
GRAND TOTAL	1.284E+05	1.209E+05	1.272E+05	1.158E+07	4.094E+06	9.185E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (68)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	9	3	3	9	9	9	9	3	9
X MAXIMUM	-5.017E+04	-2.709E+04	3.807E+04	-7.102E+05	-1.080E+06	-2.244E+06	-5.017E+04	-2.709E+04	3.807E+04	-7.102E+05	2.785E+06	8.536E+05
Y	14	21	14	14	12	14	14	21	14	12	12	14
Y MAXIMUM	2.234E+04	1.044E+04	-1.404E+04	-9.862E+04	9.161E+05	1.116E+06	2.234E+04	1.044E+04	-1.404E+04	-9.862E+04	8.196E+05	8.784E+05
Z	5	5	10	5	5	10	5	5	10	5	5	5
Z MAXIMUM	8.745E+04	-1.605E+05	3.348E+04	3.485E+04	4.616E+06	-1.032E+06	8.745E+04	-1.605E+05	3.348E+04	3.485E+04	5.560E+06	8.715E+06
GRAND TOTAL	1.182E+05	1.681E+05	6.910E+04	3.669E+06	5.017E+06	3.339E+06	1.182E+05	1.681E+05	6.910E+04	3.669E+06	6.819E+06	9.134E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (69)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	9	3	3	9	9	9	9	3	9
X MAXIMUM	-5.017E+04	2.709E+04	3.807E+04	7.102E+05	-1.080E+06	2.244E+06	-5.017E+04	2.709E+04	3.807E+04	7.102E+05	2.785E+06	-8.536E+05
Y	14	21	14	14	12	14	14	21	14	12	12	14
Y MAXIMUM	2.234E+04	-1.044E+04	-1.404E+04	9.862E+04	9.161E+05	-1.116E+06	2.234E+04	-1.044E+04	-1.404E+04	9.862E+04	8.196E+05	-8.784E+05
Z	5	5	10	5	5	10	5	5	10	5	5	5
Z MAXIMUM	-8.745E+04	-1.605E+05	-3.348E+04	3.485E+06	-4.616E+06	-1.032E+06	-8.745E+04	-1.605E+05	-3.348E+04	3.485E+06	-5.560E+06	8.715E+06
GRAND TOTAL	1.182E+05	1.681E+05	6.910E+04	3.669E+06	5.017E+06	3.339E+06	1.182E+05	1.681E+05	6.910E+04	3.669E+06	6.819E+06	9.134E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (70)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	3	9	9	9	9	3	9	3	9	9	3
X MAXIMUM	-4.872E+04	-4.319E+04	4.100E+04	2.030E+06	-3.662E+06	-2.219E+06	-5.210E+04	-3.762E+04	4.100E+04	8.063E+05	-3.296E+06	-1.367E+06
Y	14	14	14	12	12	12	21	14	21	14	12	21
Y MAXIMUM	1.360E+04	1.157E+04	-1.507E+04	5.255E+05	-9.866E+05	-1.245E+06	1.673E+04	-1.180E+04	-1.507E+04	1.912E+05	-9.143E+05	-1.010E+06
Z	5	5	5	5	5	5	5	5	5	5	5	5
Z MAXIMUM	-2.848E+04	1.694E+05	5.503E+04	8.330E+06	-5.723E+06	1.390E+07	3.102E+04	1.689E+05	5.503E+04	6.076E+06	-7.095E+06	1.033E+07
GRAND TOTAL	6.780E+04	1.815E+05	8.686E+04	8.840E+06	8.024E+06	1.482E+07	7.869E+04	1.779E+05	8.686E+04	6.271E+06	8.558E+06	1.107E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (70)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	9	9	3	9
X MAXIMUM	-4.923E+04	-2.753E+04	4.100E+04	-7.102E+05	-2.534E+06	-1.305E+06
Y	14	21	14	12	12	14
Y MAXIMUM	1.785E+04	-1.171E+04	-1.507E+04	-9.829E+04	-7.323E+05	8.312E+05
Z	5	5	5	5	5	5
Z MAXIMUM	8.679E+04	1.482E+05	5.503E+04	3.489E+06	-7.616E+06	6.988E+06
GRAND TOTAL	1.164E+05	1.559E+05	8.686E+04	3.672E+06	8.430E+06	7.689E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (71)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	9	28	28	28	28	9	9	9	28	28	9
X MAXIMUM	1.255E+06	1.101E+06	-5.740E-02	-1.255E+00	2.361E+00	2.860E+07	1.603E+06	4.672E+05	-5.740E-02	-7.732E-01	-1.911E-01	-1.241E+07
Y	14	8	28	28	28	28	14	14	14	28	30	14
Y MAXIMUM	1.062E+05	-2.546E+04	-3.333E-03	-7.285E-02	1.371E-01	-7.535E+06	9.000E+04	-5.822E+04	-3.333E-03	-4.490E-02	1.150E-02	-5.628E+06
Z	29	29	5	10	5	29	29	29	29	5	5	20
Z MAXIMUM	-5.634E-03	-6.089E-03	1.926E+05	2.794E+06	-1.730E+07	-2.419E-01	-7.680E-03	-3.136E-03	1.926E+05	-4.145E+06	-6.563E+06	-4.735E-03
GRAND TOTAL	1.269E+06	1.108E+06	2.243E+05	3.366E+06	1.968E+07	3.127E+07	1.614E+06	4.782E+05	2.243E+05	4.236E+06	7.680E+06	1.513E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (71)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	28	28	28	9
X MAXIMUM	1.650E+06	-2.542E+05	-5.740E-02	-1.416E+00	-2.707E+00	-1.798E+07
Y	14	14	28	28	28	14
Y MAXIMUM	5.695E+04	-9.081E+04	-3.333E-03	-8.220E-02	-1.572E-01	-1.731E+06
Z	29	29	5	5	5	29
Z MAXIMUM	-8.285E-03	4.049E-04	1.926E+05	-4.401E+06	5.405E+06	7.078E-02

Z 29 29 5 5 5 29
Z MAXIMUM -8.285E-03 4.049E-04 1.926E+05-4.401E+06 5.405E+06 7.078E-02

GRAND TOTAL 1.660E+06 2.836E+05 2.243E+05 4.543E+06 5.926E+06 1.831E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (72)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	9	3	9	9	9	9	3	9	3	9	9	3
X MAXIMUM	-4.872E+04	-4.319E+04	-4.100E+04	-2.030E+06	3.662E+06	-2.219E+06	-5.210E+04	-3.762E+04	-4.100E+04	-8.063E+05	3.296E+06	-1.367E+06
Y	14	14	14	12	12	12	21	14	21	14	12	21
Y MAXIMUM	1.360E+04	1.157E+04	1.507E+04	5.255E+05	9.866E+05	-1.245E+06	1.673E+04	-1.180E+04	1.507E+04	-1.912E+05	9.143E+05	-1.010E+06
Z	5	5	5	5	5	5	5	5	5	5	5	5
Z MAXIMUM	2.848E+04	-1.694E+05	5.503E+04	8.330E+06	-5.723E+06	-1.390E+07	-3.102E+04	-1.689E+05	5.503E+04	6.076E+06	-7.095E+06	-1.033E+07
GRAND TOTAL	6.780E+04	1.815E+05	8.686E+04	8.840E+06	8.024E+06	1.482E+07	7.869E+04	1.779E+05	8.686E+04	6.271E+06	8.558E+06	1.107E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (72)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	9	9	3	9
X MAXIMUM	-4.923E+04	-2.753E+04	-4.100E+04	7.102E+05	2.534E+06	-1.305E+06
Y	14	21	14	12	12	14
Y MAXIMUM	1.785E+04	-1.171E+04	1.507E+04	9.829E+04	7.323E+05	8.312E+05
Z	5	5	5	5	5	5
Z MAXIMUM	-8.679E+04	-1.482E+05	5.503E+04	3.489E+06	-7.616E+06	-6.988E+06
GRAND TOTAL	1.164E+05	1.559E+05	8.686E+04	3.672E+06	8.430E+06	7.689E+06

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (73)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	9	9	9	9	3	9	3	9	9	3
X MAXIMUM	-4.856E+04	-4.320E+04	-3.986E+04	2.034E+06	-3.658E+06	2.220E+06	-4.856E+04	-4.320E+04	-3.986E+04	2.034E+06	-7.254E+06	6.116E+06
Y	14	21	14	12	12	12	21	14	21	14	12	21
Y MAXIMUM	1.211E+04	-1.050E+04	1.523E+04	5.264E+05	-9.454E+05	1.245E+06	1.211E+04	-1.050E+04	1.523E+04	5.264E+05	-1.833E+06	2.193E+06
Z	5	5	5	5	5	5	5	5	5	5	5	5
Z MAXIMUM	-2.807E+04	1.682E+05	-5.459E+04	8.347E+06	-5.724E+06	-1.389E+07	-2.807E+04	1.682E+05	-5.459E+04	8.347E+06	-1.065E+07	-2.907E+07
GRAND TOTAL	6.723E+04	1.803E+05	8.606E+04	8.859E+06	8.020E+06	1.481E+07	6.723E+04	1.803E+05	8.606E+04	8.859E+06	1.573E+07	3.103E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (74)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	28	28	28	9	9	9	28	28	28
X MAXIMUM	1.258E+06	-1.108E+06	-9.533E-02	-1.258E+00	-2.359E+00	2.860E+07	1.258E+06	-1.108E+06	-9.533E-02	-1.258E+00	-9.065E+00	1.065E+08
Y	14	8	28	28	28	14	14	8	28	28	28	14
Y MAXIMUM	9.959E+04	2.544E+04	-5.536E-03	-7.304E-02	-1.370E-01	-7.535E+06	9.959E+04	2.544E+04	-5.536E-03	-7.304E-02	-5.264E-01	-8.103E+06
Z	29	29	5	10	5	29	29	29	5	10	5	29
Z MAXIMUM	-5.417E-03	5.783E-03	1.878E+05	2.806E+06	1.730E+07	-2.419E-01	-5.417E-03	5.783E-03	1.878E+05	2.806E+06	3.051E+07	-6.487E-01
GRAND TOTAL	1.271E+06	1.115E+06	2.213E+05	3.085E+06	1.968E+07	3.127E+07	1.271E+06	1.115E+06	2.213E+05	3.085E+06	3.521E+07	1.082E+08

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (75)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	3	9	9	9	9	3	9	3	9	9	3
X MAXIMUM	-4.856E+04	-4.320E+04	3.986E+04	-2.034E+06	3.658E+06	2.220E+06	-4.856E+04	-4.320E+04	3.986E+04	-2.034E+06	7.254E+06	6.116E+06
Y	14	21	14	12	12	12	21	14	21	14	12	21
Y MAXIMUM	1.211E+04	-1.050E+04	-1.523E+04	-5.264E+05	9.454E+05	1.245E+06	1.211E+04	-1.050E+04	-1.523E+04	-5.264E+05	1.833E+06	2.193E+06
Z	5	5	5	5	5	5	5	5	5	5	5	5
Z MAXIMUM	2.807E+04	-1.682E+05	-5.459E+04	8.347E+06	-5.724E+06	1.389E+07	2.807E+04	-1.682E+05	-5.459E+04	8.347E+06	-1.065E+07	2.907E+07
GRAND TOTAL	6.723E+04	1.803E+05	8.606E+04	8.859E+06	8.020E+06	1.481E+07	6.723E+04	1.803E+05	8.606E+04	8.859E+06	1.573E+07	3.103E+07

EL TYPE (3/D P I P E) / / / ELEMENT NUMBER (76)

	I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	M
X	9	28	9	28	9	28	9	28	9	28	9	
X MAXIMUM	-3.281E+05	-8.477E-02	1.808E+05	-2.343E+00	-1.603E+07	-8.035E+00	-3.281E+05	-8.477E-02	1.808E+05	-2.343E+00	3.388E+07	1.536E+01

IMUM -3.281E+05-8.477E-02 1.808E+05-2.343E+00-1.603E+07-8.035E+00-3.281E+05-8.477E-02 1.808E+05-2.343E+00 3.38 1.536E+01
 14 28 14 28 14 28 14 28 14 28 1

Y MAXIMUM 9.052E+05-4.923E-03 1.059E+04-1.361E-01-1.142E+06-4.666E-01 9.052E+05-4.923E-03 1.059E+04-1.361E-01 1.781E+06 8.921E-01
 Z 29 5 29 5 29 5 29 5 29 5
 Z MAXIMUM 3.925E-05-4.644E+05 9.802E-04-1.960E+07-7.906E-02-3.970E+07 3.925E-05-4.644E+05 9.802E-04-1.960E+07 1.915E-01 8.846E+07
 GRAND TOTAL 1.171E+06 4.699E+05 2.314E+05 2.121E+07 2.025E+07 4.017E+07 1.171E+06 4.699E+05 2.314E+05 2.121E+07 4.363E+07 8.952E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (77)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	28	9	28	9	28	9	28	9	28	9	28
X MAXIMUM	-1.560E+05	3.587E-01	-1.457E+06	1.137E-13	-5.783E+07	2.447E+01	-1.560E+05	3.587E-01	-1.457E+06	1.137E-13	-3.200E+08	-4.010E+01
Y	14	28	14	28	14	28	14	28	14	28	8	28
Y MAXIMUM	9.202E+05	2.083E-02	-8.384E+04	7.105E-15	6.247E+06	1.421E+00	9.202E+05	2.083E-02	-8.384E+04	7.105E-15	1.099E+07	-2.329E+00
Z	29	5	20	5	20	5	29	5	20	5	29	5
Z MAXIMUM	3.240E-03	-9.134E+05	1.807E-03	9.537E-07	-1.512E-01	1.742E+08	3.240E-03	-9.134E+05	1.807E-03	9.537E-07	-4.323E-01	3.386E+08
GRAND TOTAL	1.136E+06	9.273E+05	1.494E+06	1.108E-06	7.881E+07	1.756E+08	1.136E+06	9.273E+05	1.494E+06	1.108E-06	3.375E+08	3.419E+08

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (78)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	29	9	28	9	28	9	29	9	28	9	28
X MAXIMUM	-8.439E+04	-4.385E-02	8.770E+05	-1.137E-13	-3.200E+08	-4.010E+01	-8.439E+04	-4.385E-02	8.770E+05	-1.137E-13	-1.622E+08	-3.778E+01
Y	14	30	8	28	8	28	14	30	8	28	8	28
Y MAXIMUM	5.051E+05	3.942E-03	-3.042E+04	-7.105E-15	1.099E+07	-2.329E+00	5.051E+05	3.942E-03	-3.042E+04	-7.105E-15	5.516E+06	-2.194E+00
Z	29	5	20	16	29	5	29	5	20	16	29	5
Z MAXIMUM	2.227E-03	9.417E+05	-1.140E-03	-5.960E-08	-4.323E-01	3.386E+08	2.227E-03	9.417E+05	-1.140E-03	-5.960E-08	-4.340E-01	1.691E+08
GRAND TOTAL	6.232E+05	9.506E+05	9.260E+05	6.007E-08	3.375E+08	3.419E+08	6.232E+05	9.506E+05	9.260E+05	6.007E-08	1.709E+08	1.708E+08

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (79)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	28	9	28	9	28	9	28	9	28	9	28
X MAXIMUM	-6.351E+04	-1.205E-01	7.804E+05	-6.821E-13	-1.622E+08	-3.778E+01	-6.351E+04	-1.205E-01	7.804E+05	-6.821E-13	-8.725E+07	-2.621E+01
Y	14	28	8	28	8	28	14	28	8	28	8	28
Y MAXIMUM	3.814E+05	-6.996E-03	-2.672E+04	-4.263E-14	5.516E+06	-2.194E+00	3.814E+05	-6.996E-03	-2.672E+04	-4.263E-14	2.951E+06	-1.522E+00
Z	29	5	29	5	29	5	29	5	29	5	29	5
Z MAXIMUM	1.763E-03	8.219E+05	1.330E-03	-1.144E-05	-4.340E-01	1.691E+08	1.763E-03	8.219E+05	1.330E-03	-1.144E-05	-3.063E-01	9.024E+07
GRAND TOTAL	4.705E+05	8.299E+05	8.228E+05	1.170E-05	1.709E+08	1.708E+08	4.705E+05	8.299E+05	8.228E+05	1.170E-05	9.189E+07	9.116E+07

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (80)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	28	9	28	9	28	9	28	9	28	9	28
X MAXIMUM	-4.245E+04	-1.820E-01	6.059E+05	-2.274E-13	-8.725E+07	-2.621E+01	-4.245E+04	-1.820E-01	6.059E+05	-2.274E-13	3.433E-05	-6.821E-13
Y	14	28	8	28	8	28	14	28	8	28	8	28
Y MAXIMUM	2.556E+05	-1.057E-02	-2.049E+04	-1.421E-14	2.951E+06	-1.522E+00	2.556E+05	-1.057E-02	-2.049E+04	-1.421E-14	-1.431E-06	-4.263E-14
Z	29	5	29	5	29	5	29	5	29	5	29	5
Z MAXIMUM	1.227E-03	6.267E+05	2.127E-03	-7.629E-06	-3.063E-01	9.024E+07	1.227E-03	6.267E+05	2.127E-03	-7.629E-06	-7.105E-15	-1.526E-05
GRAND TOTAL	3.153E+05	6.330E+05	6.381E+05	7.767E-06	9.189E+07	9.116E+07	3.153E+05	6.330E+05	6.381E+05	7.767E-06	3.501E-05	1.601E-05

BENCHMARK PROBLEM NO.5

Figure 5.1

BENCHMARK PROBLEM NO.5

Figure 5.2

PIPING BENCHMARK PROBLEM 5 - RESPONSE SPECTRUM ANALYSIS

CONTROL INFORMATION

NUMBER OF NODAL POINTS ■ 39
 NUMBER OF ELEMENT TYPES ■ 2
 NUMBER OF LOAD CASES ■ 2
 NUMBER OF FREQUENCIES ■ 11
 ANALYSIS CODE (NDYN) ■ 3
 EQ,0, STATIC
 EQ,1, MODAL EXTRACTION
 EQ,2, FORCED RESPONSE
 EQ,3, RESPONSE SPECTRUM
 EQ,4, DIRECT INTEGRATION
 SOLUTION MODE (MODEX) ■ 0
 EQ,0, EXECUTION
 EQ,1, DATA CHECK
 NUMBER OF SUBSPACE
 ITERATION VECTORS (NAD) ■ -0
 EQUATIONS PER BLOCK ■ -0
 TAPE10 SAVE FLAG (N10SV) ■ -0

NODAL POINT INPUT DATA

NODE NUMBER	BOUNDARY CONDITION CODES							NODAL POINT COORDINATES				
	X	Y	Z	XX	YY	ZZ	X	Y	Z	T		
1	1	1	1	1	1	1	0.000	0.000	0.000	-0	-0.000	
2	-0	-0	-0	-0	-0	-0	10.636	0.000	-4.368	-0	-0.000	
3	-0	-0	-0	-0	-0	-0	23.424	0.000	-4.920	-0	-0.000	
4	-0	-0	-0	-0	-0	-0	26.400	0.000	-4.920	-0	-0.000	
5	-0	-0	-0	-0	-0	-0	47.400	0.000	-25.920	-0	-0.000	
6	-0	-0	-0	-0	-0	-0	47.400	0.000	-79.920	-0	-0.000	
7	-0	-0	-0	-0	-0	-0	68.400	0.000	-100.920	-0	-0.000	
8	-0	-0	-0	-0	-0	-0	89.400	0.000	-79.920	-0	-0.000	
9	-0	-0	-0	-0	-0	-0	89.400	0.000	-25.920	-0	-0.000	
10	-0	-0	-0	-0	-0	-0	110.400	0.000	-4.920	-0	-0.000	
11	-0	-0	-0	-0	-0	-0	146.400	-0.000	-4.920	-0	-0.000	
12	-0	-0	-0	-0	-0	-0	206.400	-0.000	-4.920	-0	-0.000	
13	-0	-0	-0	-0	-0	-0	245.400	-0.000	-4.920	-0	-0.000	
14	-0	-0	-0	-0	-0	-0	266.400	-0.000	-25.920	-0	-0.000	
15	-0	-0	-0	-0	-0	-0	266.400	-0.000	-72.480	-0	-0.000	
16	-0	-0	-0	-0	-0	-0	266.400	-0.000	-87.732	-0	-0.000	
17	-0	-0	-0	-0	-0	-0	272.436	-1.452	-102.636	-0	-0.000	
18	-0	-0	-0	-0	-0	-0	323.280	-13.680	-154.560	-0	-0.000	
19	-0	-0	-0	-0	-0	-0	327.960	-14.760	-159.360	-0	-0.000	
20	-0	-0	-0	-0	-0	-0	336.816	-16.944	-168.396	-0	-0.000	
21	-0	-0	-0	-0	-0	-0	349.884	-18.264	-173.856	-0	-0.000	
22	-0	-0	-0	-0	-0	-0	370.884	-18.264	-173.856	-0	-0.000	
23	-0	-0	-0	-0	-0	-0	370.884	30.696	-173.856	-0	-0.000	
24	-0	-0	-0	-0	-0	-0	391.884	-18.264	-173.856	-0	-0.000	
25	-0	-0	-0	-0	-0	-0	404.844	-18.264	-173.856	-0	-0.000	
26	-0	-0	-0	-0	-0	-0	417.804	-18.264	-173.856	-0	-0.000	
27	-0	-0	-0	-0	-0	-0	438.804	-18.264	-173.856	-0	-0.000	
	-0	-0	-0	-0	-0	-0	438.804	30.696	-173.856	-0	-0.000	
	-0	-0	-0	-0	-0	-0	459.804	-18.264	-173.856	-0	-0.000	
	-0	-0	-0	-0	-0	-0	472.236	-18.264	-173.856	-0	-0.000	
31	-0	-0	-0	-0	-0	-0	485.148	-18.264	-179.316	-0	-0.000	

	0	-0	-0	-0	-0	-0	507,300	-18,264	-202,128	-0	-0,000
	1	1	1	1	1	1	519,840	-.264	-215,040	-0	-0,000
	1	1	1	1	1	1	245,400	12,000	-4,920	-0	-0,000
35	1	1	1	1	1	1	404,644	12,000	173,856	-0	-0,000
36	1	1	1	1	1	1	485,148	12,000	179,376	-0	-0,000
37	1	1	1	1	1	1	68,400	12,000	-100,920	-0	-0,000
38	1	1	1	1	1	1	323,280	12,000	-154,560	-0	-0,000
39	1	1	1	1	1	1	323,280	-13,680	-166,560	-0	-0,000

GENERATED NODAL DATA

NODE NUMBER	BOUNDARY CONDITION CODES						NODAL POINT COORDINATES			
	X	Y	Z	XX	YY	ZZ	X	Y	Z	T
1	1	1	1	1	1	1	0,000	0,000	0,000	-0,000
2	-0	-0	-0	-0	-0	-0	18,636	0,000	-4,368	-0,000
3	-0	-0	-0	-0	-0	-0	23,424	0,000	-4,920	-0,000
4	-0	-0	-0	-0	-0	-0	26,400	0,000	-4,920	-0,000
5	-0	-0	-0	-0	-0	-0	47,400	0,000	-25,920	-0,000
6	-0	-0	-0	-0	-0	-0	47,400	0,000	-79,920	-0,000
7	-0	-0	-0	-0	-0	-0	68,400	0,000	-100,920	-0,000
8	-0	-0	-0	-0	-0	-0	89,400	0,000	-79,920	-0,000
9	-0	-0	-0	-0	-0	-0	89,400	0,000	-25,920	-0,000
10	-0	-0	-0	-0	-0	-0	110,400	0,000	-4,920	-0,000
11	-0	-0	-0	-0	-0	-0	146,400	0,000	-4,920	-0,000
12	-0	-0	-0	-0	-0	-0	206,400	0,000	-4,920	-0,000
13	-0	-0	-0	-0	-0	-0	245,400	0,000	-4,920	-0,000
14	-0	-0	-0	-0	-0	-0	266,400	0,000	-25,920	-0,000
15	-0	-0	-0	-0	-0	-0	266,400	0,000	-72,480	-0,000
16	-0	-0	-0	-0	-0	-0	266,400	0,000	-87,732	-0,000
17	-0	-0	-0	-0	-0	-0	272,436	-1,452	-102,636	-0,000
18	-0	-0	-0	-0	-0	-0	323,280	-13,680	-154,560	-0,000
19	-0	-0	-0	-0	-0	-0	327,960	-14,760	-159,360	-0,000
20	-0	-0	-0	-0	-0	-0	336,816	-16,944	-168,396	-0,000
21	-0	-0	-0	-0	-0	-0	349,884	-18,264	-173,856	-0,000
22	-0	-0	-0	-0	-0	-0	370,884	-18,264	-173,856	-0,000
23	-0	-0	-0	-0	-0	-0	370,884	30,696	-173,856	-0,000
24	-0	-0	-0	-0	-0	-0	391,884	-18,264	-173,856	-0,000
25	-0	-0	-0	-0	-0	-0	404,844	-18,264	-173,856	-0,000
26	-0	-0	-0	-0	-0	-0	417,804	-18,264	-173,856	-0,000
27	-0	-0	-0	-0	-0	-0	438,804	-18,264	-173,856	-0,000
28	-0	-0	-0	-0	-0	-0	438,804	30,696	-173,856	-0,000
29	-0	-0	-0	-0	-0	-0	459,804	-18,264	-173,856	-0,000
30	-0	-0	-0	-0	-0	-0	472,236	-18,264	-173,856	-0,000
31	-0	-0	-0	-0	-0	-0	485,148	-18,264	-179,316	-0,000
32	-0	-0	-0	-0	-0	-0	507,300	-18,264	-202,128	-0,000
33	1	1	1	1	1	1	519,840	-.264	-215,040	-0,000
34	1	1	1	1	1	1	245,400	12,000	-4,920	-0,000
35	1	1	1	1	1	1	404,644	12,000	173,856	-0,000
36	1	1	1	1	1	1	485,148	12,000	179,376	-0,000
37	1	1	1	1	1	1	68,400	12,000	-100,920	-0,000
38	1	1	1	1	1	1	323,280	12,000	-154,560	-0,000
39	1	1	1	1	1	1	323,280	-13,680	-166,560	-0,000

PIPE ELEMENT INPUT DATA

CONTROL INFORMATION

NUMBER OF PIPE ELEMENTS ■ 32
 NUMBER OF MATERIAL SETS ■ 3
 MAXIMUM NUMBER OF MATERIAL
 TEMPERATURE INPUT POINTS ■ 1
 NUMBER OF SECTION PROPERTY SETS ■ 4
 NUMBER OF BRANCH POINT NODES ■ 1
 MAXIMUM NUMBER OF TANGENTS
 COMMON TO A BRANCH POINT ■ 4

 FLAG FOR NEGLECTING AXIAL
 DEFORMATIONS IN BEND ELEMENTS ■ 0
 (EQ.1, NEGLECT)

MATERIAL PROPERTY TABLES

MATERIAL NUMBER ■ (1)
 NUMBER OF
 TEMPERATURE POINTS ■ (1)
 IDENTIFICATION ■ (304 SS
 1 0.00 26200000.0 .300 =0.

MATERIAL NUMBER ■ (2)
 NUMBER OF
 TEMPERATURE POINTS ■ (1)
 IDENTIFICATION ■ (316 SS
 1 0.00 25200000.0 .300 =0.

MATERIAL NUMBER ■ (3)
 NUMBER OF
 TEMPERATURE POINTS ■ (1)
 IDENTIFICATION ■ (316 SS VALVE
 1 0.00 75600000.0 .300 =0.

SEC NUM	OUTSIDE DIAMETER	WALL THICKNESS	SHAPE FACTOR FOR SHEAR	WEIGHT/ UNIT LENGTH	MASS/ UNIT LENGTH	D E S C R I P T I O N
1	14.000	.4380	-0.0000	=0.	0.	14 IN. PIPE
2	12.750	.3750	-0.0000	=0.	0.	12 IN. PIPE
3	12.750	1.3120	-0.0000	=0.	0.	12 IN. PIPE
4	12.750	2.0000	-0.0000	=0.	0.	VALVE STEM

E L E M E N T L O A D C A S E M U L T I P L I E R S

	CASE A	CASE B	CASE C	CASE D
X-DIRECTION GRAVITY	1.000	1.000	1.000	1.000
Y-DIRECTION GRAVITY	1.000	1.000	1.000	1.000
Z-DIRECTION GRAVITY	1.000	1.000	1.000	1.000
THERMAL DISTORTION	1.000	1.000	1.000	1.000
PRESSURE DISTORTION	1.000	1.000	1.000	1.000

PIPE ELEMENT INPUT DATA

ELEMENT NUMBER	ELEMENT TYPE	NODE =I	NODE =J	MATL. NUMBER	SECTION NUMBER	REFERENCE TEMPERATURE (BEND RADIUS)	INTERNAL PRESSURE (THIRD POINT)	D I R F C T I O N A (YX) (X3= ORDINATE)	C O S I N E S A (YY) (Y3= ORDINATE)	A (YZ) (Z3= ORDINATE)	NODE INCREMENT (WALL FRACTION)	INPUT TAG
1	TANGENT	1	2	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
2	BEND	2	3	1	1	-0.00	-0.00	(21.000) (	0.000) (	-4.920) (	.1000)	IC
3	TANGENT	3	4	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
4	BEND	4	5	1	1	-0.00	-0.00	(21.000) (	0.000) (	-4.920) (	.1000)	IC
5	TANGENT	5	6	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
6	BEND	6	7	1	1	-0.00	-0.00	(21.000) (	0.000) (	-100.920) (	.1000)	IC
7	BEND	7	8	1	1	-0.00	-0.00	(21.000) (	0.000) (	-100.920) (	.1000)	IC
8	TANGENT	8	9	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
9	BEND	9	10	1	1	-0.00	-0.00	(21.000) (	0.000) (	-4.920) (	.1000)	IC
10	TANGENT	10	11	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
11	TANGENT	11	12	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
12	TANGENT	12	13	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
13	BEND	13	14	1	1	-0.00	-0.00	(21.000) (	0.000) (	-4.920) (	.1000)	IC
14	TANGENT	14	15	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
15	TANGENT	15	16	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
16	BEND	16	17	1	1	-0.00	-0.00	(21.000) (	0.000) (	-96.480) (	.1000)	IC
17	TANGENT	17	18	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
18	TANGENT	18	19	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
19	TANGENT	19	20	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
20	BEND	20	21	1	2	-0.00	-0.00	(18.000) (	-18.264) (	-173.856) (	.1000)	IC
21	TANGENT	21	22	3	3	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
22	TANGENT	22	23	2	4	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
23	TANGENT	22	24	3	3	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
24	TANGENT	24	25	2	3	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
25	TANGENT	25	26	2	3	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
26	TANGENT	26	27	3	3	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
27	TANGENT	27	28	2	4	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
28	TANGENT	27	29	3	3	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
29	TANGENT	29	30	2	3	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
30	BEND	30	31	2	3	-0.00	-0.00	(18.000) (	-18.264) (	-173.856) (	.1000)	IC
	TANGENT	31	32	2	3	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	
	BEND	32	33	2	3	-0.00	-0.00	(18.000) (	-18.264) (	-215.040) (	.1000)	

EL TYPE ■ 7
NL OF ELEMENTS ■ 6

ELEMENT LOAD CASE MULTIPLIERS

CASE(A) CASE(R) CASE(C) CASE(D)
1.0000 -0.0000 -0.0000 -0.0000

ELEMENT NUMBER	NODE (N)	NODES DEFINING (NI)	CONSTRAINT (NJ)	DIRECTION (NK)	(NL)	CODE KD	CODE KH	GENERATION CODE (KN)	SPECIFIED DISPLACEMENT	SPECIFIED ROTATION	SPRING RATE
1	7	37	=0	=0	=0	1	=0	=0	=0.	=0.	.1000E+08
2	18	38	=0	=0	=0	1	=0	=0	=0.	=0.	.1000E+08
3	18	39	=0	=0	=0	1	=0	=0	=0.	=0.	.1000E+08
4	13	34	=0	=0	=0	1	=0	=0	=0.	=0.	.4500E+03
5	25	35	=0	=0	=0	1	=0	=0	=0.	=0.	.8000E+03
6	31	36	=0	=0	=0	1	=0	=0	=0.	=0.	.6000E+03

NODAL LOADS (STATIC) OR MASSES (DYNAMIC)

NODE NUMBER	LOAD CASE	X-AXIS FORCE	Y-AXIS FORCE	Z-AXIS FORCE	X-AXIS MOMENT	Y-AXIS MOMENT	Z-AXIS MOMENT
4	0	.28116E+01	.28116E+01	.28116E+01	=0.	=0.	=0.
7	0	.40432E+01	.40432E+01	.40432E+01	=0.	=0.	=0.
10	0	.25489E+01	.25489E+01	.25489E+01	=0.	=0.	=0.
11	0	.14063E+01	.14063E+01	.14063E+01	=0.	=0.	=0.
12	0	.14503E+01	.14503E+01	.14503E+01	=0.	=0.	=0.
13	0	.18685E+01	.18685E+01	.18685E+01	=0.	=0.	=0.
15	0	.28566E+01	.28566E+01	.28566E+01	=0.	=0.	=0.
18	0	.20246E+01	.20246E+01	.20246E+01	=0.	=0.	=0.
22	0	.67857E+01	.67857E+01	.67857E+01	=0.	=0.	=0.
23	0	.63406E+00	.63406E+00	.63406E+00	=0.	=0.	=0.
25	0	.59369E+00	.59369E+00	.59369E+00	=0.	=0.	=0.
27	0	.69539E+01	.69539E+01	.69539E+01	=0.	=0.	=0.
28	0	.63406E+00	.63406E+00	.63406E+00	=0.	=0.	=0.
31	0	.37396E+01	.37396E+01	.37396E+01	=0.	=0.	=0.

STRUCTURE LOAD CASE	ELEMENT A	LOAD B	MULTIPLIERS C	D
1	-0.000	-0.000	-0.000	-0.000

PRINT OF FREQUENCIES

MO NU	CIRCULAR FREQUENCY (RAD/SEC)	FREQUENCY (CYCLES/SEC)	PERIOD (SEC)
1	.2936E+02	.4036E+01	.2478E+00
2	.2675E+02	.4257E+01	.2349E+00
3	.5728E+02	.9116E+01	.1097E+00
4	.7029E+02	.1119E+02	.8938E-01
5	.1075E+03	.1711E+02	.5846E-01
6	.1142E+03	.1817E+02	.5503E-01
7	.1406E+03	.2238E+02	.4468E-01
8	.1709E+03	.2719E+02	.3677E-01
9	.1760E+03	.2801E+02	.3570E-01
10	.2387E+03	.3798E+02	.2633E-01
11	.2575E+03	.4097E+02	.2441E-01

MODAL ANALYSIS

MODE NUMBER 1
FREQUENCY = 4.03554 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
2	6.49959E-05	-1.11982E-03	2.63643E-04	3.43071E-05	-2.47008E-05	-1.06599E-04
3	8.87384E-05	-2.07579E-03	4.99136E-04	2.56571E-05	-7.03700E-05	-2.82030E-04
4	8.94013E-05	-2.95933E-03	7.17127E-04	3.07112E-05	-7.36543E-05	-2.94877E-04
5	5.08114E-03	-1.49475E-02	4.33828E-03	1.19476E-04	-3.12714E-04	-7.16374E-04
6	2.27560E-02	-3.08137E-03	4.35092E-03	3.70505E-04	-3.34900E-04	-9.09441E-04
7	2.99198E-02	-1.49190E-05	1.14271E-02	1.34464E-03	-3.19474E-04	-6.75870E-04
8	2.44228E-02	-6.00234E-02	1.74879E-02	2.47049E-03	-2.25219E-04	-1.28722E-03
9	1.27414E-02	-2.00903E-01	1.74972E-02	2.68716E-03	-2.09421E-04	-1.25545E-03
10	8.79119E-03	-2.84828E-01	2.10978E-02	2.75910E-03	-1.44418E-04	-1.08703E-03
11	8.79241E-03	-3.22396E-01	2.60750E-02	2.76069E-03	-1.30062E-04	-9.81247E-04
12	8.79347E-03	-3.74194E-01	3.29485E-02	2.76333E-03	-9.70724E-05	-7.32317E-04
13	8.79350E-03	-3.99326E-01	3.62642E-02	2.76505E-03	-7.31464E-05	-5.64169E-04
14	8.29442E-03	-3.43484E-01	3.66049E-02	2.94762E-03	7.45261E-05	-1.90851E-05
15	4.29450E-03	-2.07640E-01	3.66003E-02	2.86227E-03	9.67505E-05	1.69981E-04
16	2.76381E-03	-1.64218E-01	3.65967E-02	2.81049E-03	1.03524E-04	2.31915E-04
17	1.33409E-03	-1.24236E-01	3.22299E-02	2.38712E-03	1.09230E-04	1.83383E-04
18	-1.73191E-03	-1.08450E-04	1.15987E-05	1.77596E-03	1.32623E-04	3.23363E-04
19	-2.02140E-03	9.74562E-03	-2.48831E-03	1.70616E-03	1.32632E-04	3.23541E-04
20	-2.51637E-03	2.74146E-02	-7.24502E-03	1.57597E-03	1.32769E-04	3.25620E-04
21	-2.78625E-03	3.33052E-02	-9.26905E-03	9.58142E-04	-4.08749E-05	-3.15070E-04
22	-2.78635E-03	2.67031E-02	-8.39887E-03	9.12334E-04	-4.19946E-05	-3.14754E-04
23	1.26327E-02	2.67034E-02	3.62939E-02	9.13031E-04	-4.19946E-05	-3.14997E-04
24	-2.78640E-03	2.00840E-02	-7.50517E-03	8.66192E-04	-4.30251E-05	-3.14166E-04
25	-2.78649E-03	1.60219E-02	-6.93536E-03	7.80762E-04	-4.46770E-05	-3.09100E-04
26	-2.78658E-03	1.20456E-02	-6.34548E-03	6.95332E-04	-4.61411E-05	-3.00968E-04
27	-2.78662E-03	5.77798E-03	-5.36863E-03	6.49190E-04	-4.68043E-05	-2.94388E-04
28	1.16346E-02	5.77805E-03	-2.64339E-02	6.49698E-04	-4.68043E-05	-2.94612E-04
29	-2.78662E-03	-3.21662E-04	-4.37946E-03	6.02803E-04	-4.72603E-05	-2.84914E-04
30	-2.78662E-03	-3.75774E-03	-3.78701E-03	5.20421E-04	-4.77074E-05	-2.63964E-04
31	-2.52395E-03	-4.43113E-03	-3.16584E-03	4.21353E-04	-4.81419E-05	-2.28366E-04
32	-1.42825E-03	-9.09305E-04	-2.10103E-03	2.36771E-04	-4.73987E-05	-1.21991E-04

MODAL ANALYSIS

MODE NUMBER 1
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X- TRANSLATION	Y- TRANSLATION	Z- TRANSLATION	X- ROTATION	Y- ROTATION	Z- ROTATION
1	0.	0.	0.	0.	0.	0.
2	-1.62764E-04	2.80427E-03	-6.60221E-04	-8.59124E-05	6.18563E-05	2.66947E-04
3	-2.22220E-04	5.19823E-03	-1.24995E-03	-6.42509E-05	1.76222E-04	7.06265E-04
4	-2.23880E-04	7.41081E-03	-1.79584E-03	-7.69077E-05	1.84447E-04	7.34436E-04
5	-1.27243E-02	3.74317E-02	-1.08640E-02	-2.99194E-04	7.83104E-04	1.79396E-03
6	-5.69859E-02	7.71643E-03	-1.08956E-02	-9.27825E-04	8.38664E-04	2.27744E-03
7	-7.49257E-02	3.73605E-05	-2.86159E-02	-3.36728E-03	7.99909E-04	1.69253E-03
8	-6.11601E-02	1.50312E-01	-4.37935E-02	-6.18665E-03	5.63978E-04	3.22348E-03
9	-3.19074E-02	5.03105E-01	-4.38169E-02	-6.72924E-03	5.24436E-04	3.14391E-03
10	-2.20151E-02	7.13272E-01	-5.28335E-02	-6.90938E-03	3.61654E-04	2.72217E-03
11	-2.20181E-02	8.07351E-01	-6.32974E-02	-6.91336E-03	3.25705E-04	2.45726E-03
12	-2.20208E-02	9.37063E-01	-8.25102E-02	-6.91999E-03	2.43090E-04	1.83388E-03
13	-2.20209E-02	1.00000E+00	-9.08134E-02	-6.92430E-03	1.83175E-04	1.41280E-03
14	-2.07711E-02	8.60158E-01	-9.16666E-02	-7.38149E-03	-1.86630E-04	4.77933E-05
15	-1.07544E-02	5.19976E-01	-9.16553E-02	-7.16774E-03	-2.42284E-04	-4.25669E-04
16	-6.92118E-03	4.11239E-01	-9.16463E-02	-7.03807E-03	-2.59247E-04	-5.80765E-04
17	-3.34085E-03	3.11114E-01	-8.07106E-02	-5.97786E-03	-2.73536E-04	-4.59231E-04
18	4.33709E-03	2.71583E-04	-2.96457E-05	-4.44739E-03	-3.32116E-04	-8.09772E-04
19	5.06204E-03	-2.44052E-02	6.23126E-03	-4.27261E-03	-3.32139E-04	-8.10218E-04
20	6.30153E-03	-6.86522E-02	1.81431E-02	-3.94658E-03	-3.32482E-04	-8.15425E-04
21	6.97719E-03	-8.34035E-02	2.32117E-02	-2.39940E-03	1.02360E-04	7.83996E-04
22	6.97762E-03	-6.68704E-02	2.10326E-02	-2.28469E-03	1.05164E-04	7.88213E-04
23	-3.16350E-02	-6.68712E-02	-9.08880E-02	-2.28643E-03	1.05164E-04	7.88821E-04
24	6.97775E-03	-5.02947E-02	1.87946E-02	-2.16913E-03	1.07744E-04	7.86741E-04
25	6.97799E-03	-4.01224E-02	1.73677E-02	-1.95520E-03	1.11881E-04	7.74053E-04
26	6.97820E-03	-3.01632E-02	1.58905E-02	-1.74126E-03	1.15547E-04	7.53691E-04
27	6.97832E-03	-1.44693E-02	1.34442E-02	-1.62571E-03	1.17208E-04	7.37213E-04
28	-2.91356E-02	-1.44695E-02	-6.61962E-02	-1.62699E-03	1.17208E-04	7.37772E-04
29	6.97832E-03	8.05512E-04	1.09671E-02	-1.50955E-03	1.18350E-04	7.13487E-04
30	6.97832E-03	9.41019E-03	9.48351E-03	-1.30325E-03	1.19470E-04	6.61024E-04
31	6.32027E-03	1.10065E-02	7.92795E-03	-1.05516E-03	1.20558E-04	5.71878E-04
32	3.57665E-03	2.27710E-03	5.26144E-03	-5.92926E-04	1.18697E-04	3.05493E-04
33	0.	0.	0.	0.	0.	0.
34	0.	0.	0.	0.	0.	0.
35	0.	0.	0.	0.	0.	0.
36	0.	0.	0.	0.	0.	0.
37	0.	0.	0.	0.	0.	0.
38	0.	0.	0.	0.	0.	0.
39	0.	0.	0.	0.	0.	0.

MODAL ANALYSIS

MODE NUMBER 2
FREQUENCY 4.25689 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X- TRANSLATION	Y- TRANSLATION	Z- TRANSLATION	X- ROTATION	Y- ROTATION	Z- ROTATION
2	6.51779E-04	1.12848E-04	2.54743E-03	-4.05968E-06	-2.41950E-04	1.09935E-05
3	8.89683E-04	2.10987E-04	4.85628E-03	-3.28847E-06	-6.94907E-04	2.91955E-05
4	8.99434E-04	3.02277E-04	7.00127E-03	-3.88655E-06	-7.27726E-04	3.05405E-05
5	5.10017E-02	1.52255E-03	4.32286E-02	-1.41807E-05	-3.12012E-03	7.48527E-05
6	2.25661E-01	1.95993E-04	4.33246E-02	-3.97766E-05	-3.25299E-03	9.60676E-05
7	2.88971E-01	5.07214E-06	1.00242E-01	-1.34682E-04	-2.19952E-03	7.77780E-05
8	2.65531E-01	6.20865E-03	1.33570E-01	-2.40975E-04	-5.23421E-04	1.37753E-04
9	2.44151E-01	1.98156E-02	1.33634E-01	-2.54891E-04	-3.17734E-04	1.32706E-04
10	2.40849E-01	2.73117E-02	1.34931E-01	-2.19276E-04	7.89878E-05	8.76868E-05
11	2.40873E-01	3.02466E-02	1.30929E-01	-2.06265E-04	1.56793E-04	7.22969E-05
12	2.40883E-01	3.34805E-02	1.16155E-01	-1.84581E-04	3.50744E-04	3.21187E-05
13	2.40870E-01	3.41270E-02	9.95706E-02	-1.70487E-04	5.03278E-04	5.69616E-07
14	2.16342E-01	2.89404E-02	6.08441E-02	-1.82296E-04	1.49886E-03	-1.05769E-04
15	1.43745E-01	2.08134E-02	8.08392E-02	-1.65753E-04	1.59350E-03	-1.53628E-04
16	1.19237E-01	1.83246E-02	8.08324E-02	-1.59072E-04	1.60100E-03	-1.69306E-04
17	9.53443E-02	1.51941E-02	7.15422E-02	-1.29624E-04	1.52539E-03	-1.74966E-04
18	1.86331E-02	1.12881E-05	8.26168E-05	-7.26546E-05	1.26468E-03	-1.97688E-04
19	1.24273E-02	-1.25062E-03	-5.66455E-03	-6.71665E-05	1.22479E-03	-1.95694E-04
20	1.24998E-03	-3.53232E-03	-1.60308E-02	-5.58757E-05	1.14759E-03	-1.90480E-04
21	-2.86172E-03	-4.72635E-03	-2.22774E-02	-5.37074E-05	-9.23678E-05	2.00628E-05
22	-2.86649E-03	-4.27626E-03	-2.00940E-02	-4.98228E-05	-1.13040E-04	2.26124E-05
23	-3.97664E-03	-4.27631E-03	-2.25505E-02	-5.03048E-05	-1.13040E-04	2.26974E-05
24	-2.87117E-03	-3.77663E-03	-1.75241E-02	-4.57068E-05	-1.28743E-04	2.46674E-05
25	-2.87983E-03	-3.43280E-03	-1.56722E-02	-3.80862E-05	-1.49802E-04	2.76515E-05
26	-2.88847E-03	-3.05434E-03	-1.35873E-02	-3.04656E-05	-1.64771E-04	3.00079E-05
27	-2.89314E-03	-2.41229E-03	-1.00564E-02	-2.63495E-05	-1.68564E-04	3.08354E-05
28	-4.40621E-03	-2.41232E-03	-1.13551E-02	-2.65922E-05	-1.68564E-04	3.09296E-05
29	-2.89771E-03	-1.75894E-03	-6.50132E-03	-2.21169E-05	-1.68844E-04	3.10246E-05
30	-2.90583E-03	-1.37137E-03	-4.44882E-03	-1.45997E-05	-1.55703E-04	3.04540E-05
31	-2.21390E-03	-1.02898E-03	-2.66656E-03	-5.35791E-06	-1.11943E-04	2.94263E-05
32	-1.96049E-04	-3.97370E-04	-6.66429E-04	9.68276E-06	-6.70094E-05	2.09321E-05

MODAL ANALYSIS

MODE NUMBER 2
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	0.	0.	0.	0.	0.	0.
2	2.25528E-03	3.90517E-04	8.81554E-03	-1.40488E-05	-8.37386E-04	3.80436E-05
3	3.07880E-03	7.30133E-04	1.68054E-02	-1.13800E-05	-2.40477E-03	1.01033E-04
4	3.11256E-03	1.04605E-03	2.42283E-02	-1.34496E-05	-2.51834E-03	1.05687E-04
5	1.76494E-03	5.26887E-03	1.49595E-01	-4.90733E-05	-1.07974E-02	2.59032E-04
6	7.81605E-01	6.78245E-04	1.49927E-01	-1.37649E-04	-1.12571E-02	3.32448E-04
7	1.00000E+00	1.75524E-05	3.46894E-01	-4.66075E-04	-7.61156E-03	2.69155E-04
8	9.18887E-01	2.14854E-02	4.62226E-01	-8.33908E-04	-1.81133E-03	4.76704E-04
9	8.44899E-01	6.85729E-02	6.82448E-01	-8.82065E-04	-1.09954E-03	4.59237E-04
10	8.33471E-01	9.45137E-02	4.66935E-01	-7.58817E-04	2.73342E-04	3.03445E-04
11	8.33554E-01	1.04670E-01	4.53089E-01	-7.13794E-04	5.42591E-04	2.50188E-04
12	8.33589E-01	1.15861E-01	4.01960E-01	-6.38755E-04	1.21377E-03	1.11149E-04
13	8.33543E-01	1.18099E-01	3.44570E-01	-5.89980E-04	1.74162E-03	1.97119E-06
14	7.48666E-01	1.00150E-01	2.19766E-01	-6.30846E-04	5.18689E-03	-3.66022E-04
15	4.97439E-01	7.20262E-02	2.19749E-01	-5.73599E-04	5.51441E-03	-5.31640E-04
16	4.12625E-01	6.34134E-02	2.19725E-01	-5.50477E-04	5.54037E-03	-5.85893E-04
17	3.29945E-01	5.25800E-02	2.47576E-01	-4.48571E-04	5.27869E-03	-6.05481E-04
18	6.44810E-02	3.90631E-05	2.85900E-04	-2.91426E-04	4.37650E-03	-6.84110E-04
19	4.30054E-02	-4.32786E-03	-1.96025E-02	-2.32434E-04	4.23845E-03	-6.77212E-04
20	4.32562E-03	-1.22238E-02	-5.54748E-02	-1.93361E-04	3.97129E-03	-6.60896E-04
21	-4.90317E-03	-1.63565E-02	-7.70923E-02	-1.85858E-04	-3.19714E-04	6.94286E-05
22	-9.91967E-03	-1.47982E-02	-6.95364E-02	-1.72415E-04	-3.91183E-04	7.82517E-05
23	-1.37614E-02	-1.47984E-02	-7.80374E-02	-1.74083E-04	-3.91183E-04	7.85458E-05
24	-9.93585E-03	-1.30693E-02	-6.06432E-02	-1.98171E-04	-4.45523E-04	8.53629E-05
25	-9.96581E-03	-1.18794E-02	-5.42347E-02	-1.31799E-04	-5.18399E-04	9.56896E-05
26	-9.99572E-03	-1.05697E-02	-4.70196E-02	-1.05428E-04	-5.70200E-04	1.03844E-04
27	-1.00119E-02	-8.34786E-03	-3.48007E-02	-9.11841E-05	-5.83327E-04	1.06708E-04
28	-1.52479E-02	-8.34797E-03	-3.92951E-02	-9.20239E-05	-5.83327E-04	1.07034E-04
29	-1.00277E-02	-6.08692E-03	-2.24982E-02	-7.65368E-05	-5.77374E-04	1.07376E-04
30	-1.00558E-02	-4.74570E-03	-1.53954E-02	-5.05232E-05	-5.38820E-04	1.05391E-04
31	-7.66134E-03	-3.56086E-03	-9.22779E-03	-1.85414E-05	-3.87384E-04	1.01831E-04
32	-6.78440E-04	-1.37512E-03	-2.30622E-03	3.35078E-05	-2.31890E-04	7.2436AE-05
33	0.	0.	0.	0.	0.	0.
34	0.	0.	0.	0.	0.	0.
35	0.	0.	0.	0.	0.	0.
36	0.	0.	0.	0.	0.	0.
37	0.	0.	0.	0.	0.	0.
38	0.	0.	0.	0.	0.	0.
39	0.	0.	0.	0.	0.	0.

MODAL ANALYSIS

MODE NUMBER 3
FREQUENCY = 9.11574 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
2	-5.02151E-04	-2.13945E-04	-2.25031E-03	-7.01218E-06	2.03194E-04	-1.46576E-05
3	-6.85515E-04	-3.55395E-04	-4.18284E-03	-1.09063E-05	5.66071E-04	-3.62044E-05
4	-6.83751E-04	-4.72814E-04	-5.95382E-03	-1.19371E-05	5.91605E-04	-3.75095E-05
5	-3.91189E-02	-2.47501E-03	-3.40640E-02	-2.55715E-05	2.45280E-03	-7.63040E-05
6	-1.81129E-01	-3.17545E-03	-3.42257E-02	1.50076E-05	2.82592E-03	-7.35719E-05
7	-2.56093E-01	4.69580E-06	-1.20441E-01	2.71014E-04	4.72486E-03	8.71347E-05
8	-1.41250E-01	-5.68910E-03	-2.29683E-01	4.67751E-04	5.56670E-03	7.01812E-05
9	1.51104E-01	-3.26686E-02	-2.29668E-01	5.19131E-04	5.02324E-03	1.29295E-04
10	2.12741E-01	-3.98566E-02	-2.54278E-01	4.99208E-04	-1.29532E-03	2.72642E-04
11	2.12882E-01	-2.93076E-02	-1.91776E-01	5.05460E-04	-2.08567E-03	3.07689E-04
12	2.12997E-01	-1.02103E-02	-4.16766E-02	5.15879E-04	-2.68315E-03	3.08248E-04
13	2.12990E-01	1.10641E-03	6.26137E-02	5.22652E-04	-2.51873E-03	2.57852E-04
14	2.21433E-01	1.17573E-02	9.15767E-02	3.30769E-04	9.04865E-04	-8.43825E-05
15	1.66663E-01	2.63383E-02	9.18585E-02	2.78537E-04	1.37379E-03	-2.32756E-04
16	1.44549E-01	3.03873E-02	9.19239E-02	2.50614E-04	1.45315E-03	-2.81360E-04
17	1.19963E-01	2.97524E-02	8.20049E-02	-4.26245E-05	1.67198E-03	-4.53804E-04
18	2.81302E-02	-2.19596E-05	-1.51859E-04	-9.28673E-05	1.55021E-03	-5.06942E-04
19	2.00873E-02	-2.85574E-03	-7.30598E-03	-9.05253E-05	1.52126E-03	-5.00799E-04
20	5.35073E-03	-8.07324E-03	-2.03929E-02	-8.37032E-05	1.44621E-03	-4.82358E-04
21	-3.13556E-04	-1.14768E-02	-2.85412E-02	-2.36232E-05	-1.35007E-04	4.91731E-06
22	-3.32032E-04	-1.12736E-02	-2.53797E-02	-1.98234E-05	-1.63688E-04	1.50466E-05
23	-1.07247E-03	-1.12743E-02	-2.64429E-02	-2.24148E-05	-1.63688E-04	1.51517E-05
24	-3.50450E-04	-1.08493E-02	-2.16588E-02	-1.47786E-05	-1.85723E-04	2.52120E-05
25	-3.84551E-04	-1.03975E-02	-1.89958E-02	-5.43866E-06	-2.13100E-04	4.26109E-05
26	-4.18644E-04	-9.73054E-03	-1.60437E-02	3.90131E-06	-2.30148E-04	5.88441E-05
27	-4.37058E-04	-8.40567E-03	-1.11383E-02	8.94605E-06	-2.31981E-04	6.67301E-05
28	-3.71719E-03	-8.40617E-03	-1.07379E-02	7.89372E-06	-2.31981E-04	6.70944E-05
29	-4.55368E-04	-6.92717E-03	-6.28896E-03	1.44963E-05	-2.23661E-04	7.26096E-05
30	-4.87887E-04	-5.96084E-03	-3.60558E-03	2.43536E-05	-1.93072E-04	7.93008E-05
31	1.49826E-04	-4.65670E-03	-1.71183E-03	3.78417E-05	-8.91446E-05	9.11785E-05
32	1.12794E-03	-1.57555E-03	-6.40532E-04	4.79549E-05	-2.21661E-05	8.84486E-05

MODAL ANALYSIS

MODE NUMBER 3
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	0.	0.	0.	0.	0.	0.
2	1.96081E-03	8.35420E-04	8.78707E-03	2.73814E-03	-7.93439E-04	5.72355E-03
3	2.67682E-03	1.38776E-03	1.63333E-02	4.25873E-03	-2.21041E-03	1.41372E-04
4	2.66993E-03	1.84626E-03	2.32486E-02	4.66122E-03	-2.31012E-03	1.46468E-04
5	1.52752E-01	9.65450E-03	1.33014E-01	9.98523E-03	-9.57776E-03	2.97954E-04
6	7.07277E-01	1.23906E-02	1.33646E-01	-5.86022E-03	-1.10347E-02	2.87286E-04
7	1.00000E+00	-1.85332E-03	4.70301E-01	-1.05826E-03	-1.84498E-02	-3.40246E-04
8	5.51558E-01	2.22150E-02	8.96871E-01	-1.82649E-03	-2.17370E-02	-2.74046E-04
9	-5.90035E-01	1.27565E-01	8.96814E-01	-2.02712E-03	-1.96149E-02	-5.04874E-04
10	-8.30719E-01	1.55633E-01	9.92914E-01	-1.94932E-03	5.05801E-03	-1.06462E-03
11	-8.31269E-01	1.14441E-01	7.48851E-01	-1.97374E-03	8.14419E-03	-1.20147E-03
12	-8.31716E-01	3.98695E-02	1.62740E-01	-2.01442E-03	1.04773E-02	-1.20366E-03
13	-8.31691E-01	-4.32035E-03	-2.44496E-01	-2.04087E-03	9.83520E-03	-1.00687E-03
14	-8.64659E-01	-4.59104E-02	-3.57592E-01	-1.29160E-03	-3.53334E-03	3.29499E-04
15	-6.50791E-01	-1.02847E-01	-3.58692E-01	-1.08764E-03	-5.36441E-03	9.08873E-04
16	-5.64440E-01	-1.18657E-01	-3.58947E-01	-9.78607E-04	-5.67431E-03	1.09866E-03
17	-4.68434E-01	-1.16178E-01	-3.20215E-01	1.66441E-04	-6.52881E-03	1.77203E-03
18	-1.09844E-01	8.57444E-05	5.92983E-04	3.62631E-04	-6.05330E-03	1.97952E-03
19	-7.84376E-02	1.11512E-02	2.85286E-02	3.53486E-04	-5.94026E-03	1.95553E-03
20	-2.08937E-02	3.15246E-02	7.96310E-02	3.26847E-04	-5.64719E-03	1.88353E-03
21	1.22436E-03	4.48150E-02	1.11444E-01	9.22445E-03	5.27178E-04	-1.92013E-03
22	1.29653E-03	4.40214E-02	9.91035E-02	7.74069E-03	6.39175E-04	-5.87545E-03
23	4.18782E-03	4.40241E-02	1.03255E-01	8.75260E-03	6.39175E-04	-5.91649E-03
24	1.36845E-03	4.23492E-02	8.45738E-02	5.77081E-03	7.25215E-04	-9.84487E-03
25	1.50161E-03	4.06006E-02	7.41755E-02	2.12371E-03	8.32121E-04	-1.66388E-04
26	1.63473E-03	3.79961E-02	6.26478E-02	-1.52339E-03	8.98688E-04	-2.29776E-04
27	1.70664E-03	3.28227E-02	4.34730E-02	-3.49328E-03	9.05845E-04	-2.60570E-04
28	1.45150E-02	3.28247E-02	4.19296E-02	-3.08236E-03	9.05845E-04	-2.61992E-04
29	1.77814E-03	2.70494E-02	2.45573E-02	-5.66057E-03	8.73337E-04	-2.83528E-04
30	1.90512E-03	2.32761E-02	1.40792E-02	-9.50967E-03	7.53914E-04	-3.09656E-04
31	-5.85043E-04	1.81836E-02	6.68439E-03	-1.47765E-04	3.48095E-04	-3.56037E-04
32	-4.40461E-03	6.15227E-03	2.50117E-03	-1.87256E-04	8.65547E-05	-3.45377E-04
33	0.	0.	0.	0.	0.	0.
34	0.	0.	0.	0.	0.	0.
35	0.	0.	0.	0.	0.	0.
36	0.	0.	0.	0.	0.	0.
37	0.	0.	0.	0.	0.	0.
38	0.	0.	0.	0.	0.	0.
39	0.	0.	0.	0.	0.	0.

MODAL ANALYSIS

MODE NUMBER 4
FREQUENCY = 11.187H HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
2	4.47339E-05	-2.67317E-03	1.68414E-04	-6.56260E-05	-1.84344E-05	-1.91931E-04
3	6.31204E-05	-4.50206E-03	3.48729E-04	-1.10462E-04	-5.72941E-05	-4.78904E-04
4	6.38834E-05	-6.04650E-03	5.22379E-04	-1.20085E-04	-6.02281E-05	-4.96932E-04
5	4.92906E-03	-3.13857E-02	3.85315E-03	-2.40790E-04	-3.21664E-04	-1.04449E-03
6	2.33105E-02	-3.53860E-02	3.84811E-03	2.74325E-04	-3.51110E-04	-1.07346E-03
7	3.10584E-02	-9.45851E-05	1.17643E-02	3.33942E-03	-3.86407E-04	7.36088E-04
8	2.22731E-02	-7.57438E-02	2.02422E-02	5.46762E-03	-4.12723E-04	6.30458E-04
9	1.29890E-03	-3.85581E-01	2.02112E-02	5.76530E-03	-3.32130E-04	1.46388E-03
10	4.03632E-04	-4.30124E-01	1.61387E-02	3.64105E-03	5.06358E-04	4.50454E-03
11	3.66734E-04	-2.56232E-01	-3.93967E-03	3.14776E-03	5.89529E-04	5.08951E-03
12	3.04925E-04	6.48261E-02	-4.09068E-02	2.32561E-03	6.08656E-04	5.35629E-03
13	2.64575E-04	2.68760E-01	-6.38852E-02	1.79122E-03	5.62566E-04	4.97184E-03
14	-6.99466E-03	3.45761E-01	-7.29907E-02	-1.11162E-03	2.07985E-04	1.72570E-03
15	-1.44164E-02	2.80736E-01	-7.29501E-02	-1.71408E-03	8.36935E-05	7.48631E-04
16	-1.52935E-02	2.52574E-01	-7.29047E-02	-1.89600E-03	2.37890E-05	4.28567E-04
17	-1.22913E-02	2.13280E-01	-6.69047E-02	-3.32988E-03	-4.27782E-04	-4.25097E-04
18	4.54970E-03	2.01214E-04	-8.88555E-05	-2.96146E-03	-5.40565E-04	-1.02143E-03
19	6.01473E-03	-1.86737E-02	5.59485E-03	-2.86749E-03	-5.32997E-04	-1.02184E-03
20	8.52247E-03	-5.29456E-02	1.63516E-02	-2.67815E-03	-5.17369E-04	-1.01149E-03
21	9.62309E-03	-6.73735E-02	2.20201E-02	-1.54606E-03	4.24858E-05	4.47873E-04
22	9.62102E-03	-5.77849E-02	2.10395E-02	-1.47030E-03	5.32500E-05	4.70878E-04
23	-1.35044E-02	-5.77901E-02	-5.12168E-02	-1.47786E-03	5.32500E-05	4.72872E-04
24	9.61731E-03	-4.76067E-02	1.97861E-02	-1.39091E-03	6.62244E-05	4.45265E-04
25	9.61043E-03	-4.09009E-02	1.87720E-02	-1.24393E-03	9.05077E-05	5.31744E-04
26	9.60324E-03	-3.37607E-02	1.74403E-02	-1.09694E-03	1.14804E-04	5.61089E-04
27	9.59936E-03	-2.18293E-02	1.48919E-02	-1.01755E-03	1.27815E-04	5.71523E-04
28	-1.84799E-02	-2.18313E-02	-3.51126E-02	-1.02273E-03	1.27815E-04	5.74251E-04
29	9.59388E-03	-9.75624E-03	1.20702E-02	-9.35669E-04	1.39176E-04	5.71198E-04
30	9.58414E-03	-2.66479E-03	1.02160E-02	-7.90249E-04	1.54906E-04	5.52511E-04
31	8.59730E-03	5.87367E-04	7.97966E-03	-6.14449E-04	1.84462E-04	5.13442E-04
32	4.27897E-03	-3.09885E-04	3.79949E-03	-3.20297E-04	1.73312E-04	3.25960E-04

ANALYSIS

MODE NUMBER 4
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X- TRANSLATION	Y- TRANSLATION	Z- TRANSLATION	X- ROTATION	Y- ROTATION	Z- ROTATION
1	0.	0.	0.	0.	0.	0.
2	-1.04001E-04	6.21480E-03	-3.91543E-04	1.52573E-04	4.28578E-05	4.46217E-04
3	-1.46747E-04	1.04667E-02	-8.10753E-04	2.56812E-04	1.33202E-04	1.11539E-03
4	-1.48521E-04	1.40574E-02	-1.21447E-03	2.79183E-04	1.40023E-04	1.15531E-03
5	-1.14595E-02	7.29680E-02	-8.95813E-03	5.59808E-04	7.47832E-04	2.42831E-03
6	-5.41943E-02	8.22683E-02	-8.94640E-03	-6.37772E-04	8.16288E-04	2.49566E-03
7	-7.22072E-02	2.19899E-04	-2.73505E-02	-7.76376E-03	8.98350E-04	-1.71132E-03
8	-5.17822E-02	1.76095E-01	-4.70607E-02	-1.27116E-02	9.59531E-04	-1.46574E-03
9	-3.01980E-03	8.96430E-01	-4.69886E-02	-1.34036E-02	7.72163E-04	-3.40335E-03
10	-9.38396E-04	1.00000E+00	-3.75206E-02	-8.46502E-03	-1.17722E-03	-1.04725E-02
11	-8.52611E-04	5.95710E-01	9.15926E-03	-7.31818E-03	-1.37059E-03	-1.18325E-02
12	-7.08915E-04	-1.50713E-01	9.51035E-02	-5.40678E-03	-1.41505E-03	-1.24527E-02
13	-6.15105E-04	-6.24836E-01	1.48526E-01	-4.16436E-03	-1.30790E-03	-1.15549E-02
14	1.62618E-02	-8.03853E-01	1.69695E-01	2.58439E-03	-4.83541E-04	-4.01204E-03
15	3.35165E-02	-6.52678E-01	1.69600E-01	3.98502E-03	-1.94578E-04	-1.74048E-03
16	3.55555E-02	-5.87205E-01	1.69495E-01	4.40799E-03	-5.53067E-05	-9.96367E-04
17	2.85757E-02	-4.95891E-01	1.55545E-01	7.74157E-03	9.94542E-04	9.88301E-04
18	-1.05775E-02	-4.67798E-04	2.06579E-04	6.88504E-03	1.25675E-03	2.37471E-03
19	-1.39835E-02	4.34141E-02	-1.30074E-02	6.66657E-03	1.23916E-03	2.37566E-03
20	-1.98137E-02	1.23092E-01	-3.80155E-02	6.22638E-03	1.20282E-03	2.35159E-03
21	-2.23725E-02	1.56635E-01	-5.11940E-02	3.59441E-03	-9.87745E-05	-1.04125E-03
22	-2.23677E-02	1.34343E-01	-4.89144E-02	3.41828E-03	-1.23800E-04	-1.09474E-03
23	3.13962E-02	1.34355E-01	1.19073E-01	3.43586E-03	-1.23800E-04	-1.09437E-03
24	-2.23571E-02	1.10680E-01	-4.60003E-02	3.23371E-03	-1.53964E-04	-1.15143E-03
25	-2.23431E-02	9.50899E-02	-4.36426E-02	2.89198E-03	-2.10420E-04	-1.23624E-03
26	-2.23264E-02	7.84896E-02	-4.05465E-02	2.55026E-03	-2.66914E-04	-1.30446E-03
27	-2.23174E-02	5.07506E-02	-3.46218E-02	2.36568E-03	-2.97154E-04	-1.32872E-03
28	4.29637E-02	5.07552E-02	8.16327E-02	2.37773E-03	-2.97154E-04	-1.33507E-03
29	-2.23046E-02	2.26821E-02	-2.80617E-02	2.17532E-03	-3.23567E-04	-1.32797E-03
30	-2.22620E-02	6.19532E-03	-2.37510E-02	1.83724E-03	-3.60139E-04	-1.28452E-03
31	-1.99877E-02	-1.36556E-03	-1.85518E-02	1.42852E-03	-4.28852E-04	-1.19369E-03
32	-9.94811E-03	7.20445E-04	-8.83337E-03	7.44652E-04	-4.02930E-04	-7.57819E-04
33	0.	0.	0.	0.	0.	0.
34	0.	0.	0.	0.	0.	0.
35	0.	0.	0.	0.	0.	0.
36	0.	0.	0.	0.	0.	0.
37	0.	0.	0.	0.	0.	0.
38	0.	0.	0.	0.	0.	0.
39	0.	0.	0.	0.	0.	0.

MODAL ANALYSIS

MODE NUMBER 5
FREQUENCY = 17.1070 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
2	1.98288E-04	-6.87023E-04	9.94235E-04	-8.69853E-07	-5.12667E-05	-5.55640E-05
3	1.88710E-04	-1.20003E-03	1.41828E-03	-9.55078E-06	-7.15912E-05	-1.41670E-04
4	1.80486E-04	-1.65119E-03	1.70582E-03	-9.64783E-06	-7.07197E-05	-1.47509E-04
5	-6.53629E-03	-8.34467E-03	-4.43055E-04	-4.19479E-06	5.98064E-04	-3.32048E-04
6	-3.98595E-02	-5.91214E-03	-1.86189E-04	1.33072E-04	5.50672E-04	-3.84841E-04
7	-4.21323E-02	-9.91407E-05	4.73364E-03	8.18545E-04	-5.73548E-04	-8.62492E-05
8	-5.63114E-02	-2.37074E-02	1.91431E-02	1.21013E-03	-6.28743E-04	-8.33354E-05
9	-9.06113E-02	-8.93877E-02	1.93755E-02	1.12010E-03	-6.81004E-04	1.50829E-04
10	-1.09907E-01	-8.30255E-02	4.19235E-02	-2.83362E-04	-1.15248E-03	1.46185E-03
11	-1.09624E-01	-2.65803E-02	8.29155E-02	-6.78518E-04	-1.08966E-03	1.63935E-03
12	-1.08933E-01	7.48898E-02	1.43871E-01	-1.33711E-03	-9.77777E-04	1.64691E-03
13	-1.08338E-01	1.36588E-01	1.82894E-01	-1.76520E-03	-1.14983E-03	1.51563E-03
14	-3.95725E-02	1.12678E-01	2.31297E-01	-2.65144E-03	-4.11475E-03	8.94267E-04
15	1.46441E-01	-1.12992E-02	2.30646E-01	-2.52173E-03	-3.35296E-03	1.00936E-03
16	1.93865E-01	-4.90217E-02	2.30196E-01	-2.36355E-03	-2.74315E-03	1.04706E-03
17	1.93845E-01	-6.50687E-02	2.23692E-01	-5.44096E-04	3.29197E-03	1.24072E-03
18	-1.57318E-02	9.08273E-04	-4.60144E-05	2.49372E-04	4.83511E-03	1.63882E-03
19	-3.72626E-02	1.08556E-02	-2.35353E-02	3.48224E-04	4.82004E-03	1.68427E-03
20	-7.69738E-02	3.03673E-02	-6.76583E-02	3.61066E-04	4.71842E-03	1.70930E-03
21	-9.53957E-02	4.83736E-02	-1.08717E-01	-4.53564E-04	8.90350E-04	5.30271E-04
22	-9.53643E-02	5.91457E-02	-1.26370E-01	-4.95868E-04	7.29255E-04	4.68415E-04
23	-1.19776E-01	5.91582E-02	-1.52529E-01	-5.48512E-04	7.29255E-04	5.09755E-04
24	-9.52837E-02	6.79209E-02	-1.39425E-01	-5.12882E-04	4.98000E-04	3.61071E-04
25	-9.51345E-02	7.13020E-02	-1.43077E-01	-5.44382E-04	2.64408E-05	1.45445E-04
26	-9.49781E-02	7.17862E-02	-1.40371E-01	-5.75882E-04	-4.74525E-04	-8.09419E-05
27	-9.48936E-02	6.87823E-02	-1.27505E-01	-5.92896E-04	-7.63284E-04	-2.09329E-04
28	-8.57022E-02	6.87968E-02	-1.58488E-01	-6.47597E-04	-7.63284E-04	-1.79750E-04
29	-9.47606E-02	6.28627E-02	-1.08290E-01	-5.85631E-04	-1.03194E-03	-3.33688E-04
30	-9.45242E-02	5.73592E-02	-9.25250E-02	-5.67178E-04	-1.42044E-03	-5.01572E-04
31	-8.31777E-02	4.53878E-02	-6.82359E-02	-5.78707E-04	-2.19540E-03	-8.03871E-04
32	-2.93697E-02	1.31510E-02	-1.63625E-02	-3.21164E-04	-2.04602E-03	-1.00716E-03

MODE NUMBER 5
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	0.	0.	0.	0.	0.	0.
2	6.84349E-04	-2.97030E-03	4.29852E-03	-3.76076E-06	-2.21735E-04	-2.40228E-04
3	8.15878E-04	-5.18828E-03	6.13180E-03	-4.12922E-05	-3.09520E-04	-8.12504E-04
4	7.80321E-04	-7.13883E-03	7.37500E-03	-4.17119E-05	-3.05752E-04	-6.37745E-04
5	-2.82593E-02	-3.60777E-02	-1.91552E-03	-1.81359E-05	2.57705E-03	-1.43559E-03
6	-1.72330E-01	-2.55608E-02	-8.04978E-04	5.75330E-04	2.38040E-03	-1.66384E-03
7	-1.82157E-01	-4.28629E-04	2.04650E-02	3.53893E-03	-2.47470E-03	-2.86424E-04
8	-2.43454E-01	-1.02494E-01	8.27641E-02	5.23102E-03	-2.71833E-03	-3.60296E-04
9	-3.91753E-01	-3.86463E-01	8.37640E-02	4.84268E-03	-2.94428E-03	6.52102E-04
10	-4.75176E-01	-3.58956E-01	1.81254E-01	-1.22510E-03	-4.98267E-03	6.32024E-03
11	-4.73951E-01	-1.14918E-01	3.58480E-01	-2.93353E-03	-4.71108E-03	7.08763E-03
12	-4.70965E-01	3.23782E-01	6.22018E-01	-5.78093E-03	-4.22736E-03	7.12033E-03
13	-4.68394E-01	5.90530E-01	7.90731E-01	-7.63173E-03	-4.97123E-03	6.55273E-03
14	-1.71089E-01	4.87155E-01	1.00000E+00	-1.14634E-02	-1.77899E-02	3.86631E-03
15	6.33131E-01	-4.88514E-02	9.97186E-01	-1.09026E-02	-1.44063E-02	4.36389E-03
16	8.38162E-01	-2.11942E-01	9.95237E-01	-1.02187E-02	-1.18598E-02	4.52689E-03
17	8.38076E-01	-2.81061E-01	9.67121E-01	-2.35237E-03	1.42328E-02	5.36419E-03
18	-6.80155E-02	3.92687E-03	-1.98940E-04	1.29432E-03	2.09043E-02	7.08535E-03
19	-1.61103E-01	4.69335E-02	-1.01754E-01	1.50553E-03	2.08392E-02	7.28184E-03
20	-3.32792E-01	1.31291E-01	-2.92517E-01	1.56105E-03	2.03998E-02	7.39005E-03
21	-4.12438E-01	2.02141E-01	-4.78030E-01	-1.96096E-03	3.84937E-03	2.29240E-03
22	-4.12302E-01	2.55713E-01	-5.46353E-01	-2.14386E-03	3.15289E-03	2.02517E-03
23	-5.17843E-01	2.55767E-01	-6.59492E-01	-2.37146E-03	3.15289E-03	2.20389E-03
24	-4.11954E-01	2.93652E-01	-6.02795E-01	-2.21741E-03	2.15307E-03	1.56107E-03
25	-4.11308E-01	3.08270E-01	-6.18587E-01	-2.35360E-03	1.14315E-04	6.28824E-04
26	-4.10632E-01	3.10364E-01	-6.06885E-01	-2.48979E-03	-2.05158E-03	-3.49948E-04
27	-4.10267E-01	2.97378E-01	-5.51258E-01	-2.56335E-03	-3.30001E-03	-9.05022E-04
28	-3.70528E-01	2.07439E-01	-6.85213E-01	-2.79985E-03	-3.30001E-03	-7.77137E-04
29	-4.09692E-01	2.71783E-01	-4.68186E-01	-2.52330E-03	-4.46151E-03	-1.44268E-03
30	-4.08670E-01	2.47989E-01	-4.00026E-01	-2.45216E-03	-6.14117E-03	-2.16852E-03
31	-3.59614E-01	1.96231E-01	-2.95014E-01	-2.50201E-03	-9.49169E-03	-3.47549E-03
32	-1.26478E-01	5.68577E-02	-7.07424E-02	-1.38853E-03	-8.84587E-03	-4.35439E-03
33	0.	0.	0.	0.	0.	0.
34	0.	0.	0.	0.	0.	0.
35	0.	0.	0.	0.	0.	0.
36	0.	0.	0.	0.	0.	0.
37	0.	0.	0.	0.	0.	0.
38	0.	0.	0.	0.	0.	0.
39	0.	0.	0.	0.	0.	0.

MODAL ANALYSIS

MODE NUMBER 6
FREQUENCY = 18.1728 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
2	-8.17205E-05	-6.18120E-04	-5.00678E-04	3.05159E-05	2.86917E-05	-6.28723E-05
3	-1.00177E-04	-1.17145E-03	-7.46738E-04	2.79931E-05	4.93966E-05	-1.66930E-04
4	-9.61847E-05	-1.69219E-03	-9.28954E-04	3.25243E-05	4.98564E-05	-1.74747E-04
5	1.46614E-03	-8.28803E-03	-9.45042E-04	1.08129E-04	-1.65181E-04	-4.33999E-04
6	1.02756E-02	7.15845E-04	-1.06110E-03	2.46315E-04	-1.18602E-04	-5.72163E-04
7	7.27793E-03	-1.74792E-04	-8.33076E-03	6.89547E-04	5.65835E-04	-5.59417E-04
8	2.30304E-02	-3.23077E-02	-2.29014E-02	9.08941E-04	7.83610E-04	-6.75518E-04
9	6.49450E-02	-7.78996E-02	-2.29690E-02	6.46628E-04	7.51012E-04	-5.09652E-04
10	7.75062E-02	-6.38014E-02	-3.24633E-02	-1.46629E-03	2.04735E-04	1.10887E-03
11	7.73368E-02	-1.47892E-02	-3.80848E-02	-2.10568E-03	1.26463E-04	1.33398E-03
12	7.68806E-02	7.02697E-02	-4.60891E-02	-3.17132E-03	2.27258E-04	1.63674E-03
13	7.64681E-02	1.37512E-01	-5.95378E-02	-3.86399E-03	5.51605E-04	1.85144E-03
14	1.90472E-02	9.83030E-02	-9.73231E-02	-4.47906E-03	3.60423E-03	2.75533E-03
15	-1.47396E-01	-1.12361E-01	-9.69910E-02	-4.34608E-03	3.16998E-03	3.65813E-03
16	-1.93136E-01	-1.77307E-01	-9.67696E-02	-4.16993E-03	2.78980E-03	3.95387E-03
17	-2.02476E-01	-1.98879E-01	-9.45707E-02	-2.37203E-03	-7.74028E-04	5.24317E-03
18	-5.92514E-02	2.16542E-03	-3.72702E-04	-1.13476E-03	-1.64617E-03	6.39071E-03
19	-4.41819E-02	2.86333E-02	8.47892E-03	-1.02459E-03	-1.63697E-03	6.47192E-03
20	-1.49396E-02	7.99865E-02	2.49520E-02	-9.80319E-04	-1.59340E-03	6.45878E-03
21	-9.14557E-04	1.34773E-01	3.96416E-02	-2.56740E-03	-2.25599E-04	1.89743E-03
22	-9.14445E-04	1.73274E-01	4.40251E-02	-2.64730E-03	-1.77879E-04	1.68005E-03
23	-8.43439E-02	1.73315E-01	-8.67949E-02	-2.68110E-03	-1.77879E-04	1.71290E-03
24	-9.09747E-04	2.05319E-01	4.71277E-02	-2.71096E-03	-1.16764E-04	1.35194E-03
25	-9.01051E-04	2.18870E-01	4.79063E-02	-2.82882E-03	-1.32119E-06	6.90554E-04
26	-8.42278E-04	2.23519E-01	4.71655E-02	-2.94668E-03	1.14516E-04	-4.78112E-06
27	-8.87539E-04	2.19413E-01	4.41059E-02	-3.01034E-03	1.76402E-04	-3.99230E-04
28	1.89222E-02	2.19465E-01	-1.04739E-01	-3.05114E-03	1.76402E-04	-4.06600E-04
29	-8.83248E-04	2.06715E-01	3.97424E-02	-3.05440E-03	2.25748E-04	-7.33313E-04
30	-8.75627E-04	1.93976E-01	3.64026E-02	-3.13266E-03	2.79123E-04	-1.13054E-03
31	-2.72628E-03	1.56304E-01	3.21260E-02	-3.27713E-03	3.51902E-04	-1.74347E-03
32	-1.09038E-02	4.16553E-02	2.40347E-02	-2.71704E-03	3.24821E-04	-1.78668E-03

D A L A N A L Y S I S

MODE NUMBER 6
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	0.	0.	0.	0.	0.	0.
2	-3.65609E-04	-2.76540E-03	-2.23998E-03	1.36525E-04	1.28363E-04	-2.81284E-04
3	-4.48180E-04	-5.24093E-03	-3.34083E-03	1.25238E-04	2.20995E-04	-7.46827E-04
4	-4.30320E-04	-7.57068E-03	-4.15604E-03	1.45510E-04	2.23052E-04	-7.81798E-04
5	6.55935E-03	-3.70798E-02	-4.22802E-03	4.83755E-04	-7.39003E-04	-1.94167E-03
6	4.59721E-02	3.20261E-03	-4.74727E-03	1.10199E-03	-5.30614E-04	-2.55980E-03
7	3.25602E-02	-7.82002E-04	-3.72709E-02	3.08496E-03	2.53149E-03	-2.50277E-03
8	1.03035E-01	-1.44541E-01	-1.02458E-01	4.06650E-03	3.50579E-03	-3.02219E-03
9	2.90557E-01	-3.48514E-01	-1.02761E-01	2.89294E-03	3.35995E-03	-2.23986E-03
10	3.46754E-01	-2.85441E-01	-1.45237E-01	-6.56002E-03	9.15966E-04	4.96896E-03
11	3.45997E-01	-8.85350E-02	-1.70387E-01	-9.42057E-03	5.65782E-04	5.96807E-03
12	3.43955E-01	3.14379E-01	-2.06198E-01	-1.41881E-02	1.01673E-03	7.32258E-03
13	3.42110E-01	6.15215E-01	-2.66366E-01	-1.72871E-02	2.46782E-03	8.28313E-03
14	8.52149E-02	4.39797E-01	-4.35413E-01	-2.00388E-02	1.61249E-02	1.23270E-02
15	-6.59432E-01	-5.02692E-01	-4.33927E-01	-1.94439E-02	1.41822E-02	1.63661E-02
16	-8.64069E-01	-7.93251E-01	-4.32937E-01	-1.86558E-02	1.24813E-02	1.76892E-02
17	-9.05858E-01	-8.89765E-01	-4.23099E-01	-1.06122E-02	-3.46292E-03	2.34574E-02
18	-2.65044E-01	9.68785E-03	-1.66743E-03	-5.07681E-03	-7.36477E-03	2.85914E-02
19	-1.97665E-01	1.28102E-01	3.79338E-02	-4.58390E-03	-7.32363E-03	2.89547E-02
20	-6.68382E-02	3.57851E-01	1.11633E-01	-4.38584E-03	-7.12871E-03	2.88959E-02
21	-4.09163E-03	6.02959E-01	1.77352E-01	-1.14863E-02	-1.00931E-03	8.49888E-03
22	-4.09113E-03	7.75209E-01	1.96963E-01	-1.18437E-02	-7.95813E-04	7.51636E-03
23	-3.77345E-01	7.75393E-01	-3.88311E-01	-1.19950E-02	-7.95813E-04	7.66333E-03
24	-4.07011E-03	9.18576E-01	2.10844E-01	-1.21285E-02	-5.22389E-04	6.04842E-03
25	-4.03120E-03	9.79201E-01	2.14328E-01	-1.26558E-02	-5.91086E-06	3.08947E-03
26	-3.99195E-03	1.00600E+00	2.11013E-01	-1.31831E-02	5.12330E-04	-2.13007E-09
27	-3.97075E-03	9.81631E-01	1.97325E-01	-1.34679E-02	7.89201E-04	-1.78611E-03
28	8.46558E-02	9.81864E-01	-4.68589E-01	-1.36505E-02	7.89201E-04	-1.81908E-03
29	-3.95156E-03	9.24819E-01	1.77803E-01	-1.36651E-02	1.00997E-03	-3.28976E-03
30	-3.91746E-03	8.67827E-01	1.62861E-01	-1.40152E-02	1.24877E-03	-5.05793E-03
31	-1.21971E-02	6.99287E-01	1.43728E-01	-1.46615E-02	1.57437E-03	-7.80009E-03
32	-4.87822E-02	1.86361E-01	1.07528E-01	-1.21558E-02	1.45321E-03	-7.99339E-03
33	0.	0.	0.	0.	0.	0.
34	0.	0.	0.	0.	0.	0.
35	0.	0.	0.	0.	0.	0.
36	0.	0.	0.	0.	0.	0.
37	0.	0.	0.	0.	0.	0.
38	0.	0.	0.	0.	0.	0.
39	0.	0.	0.	0.	0.	0.

MODAL ANALYSIS

MODE NUMBER 7
FREQUENCY = 22.3795 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X- TRANSLATION	Y- TRANSLATION	Z- TRANSLATION	X- ROTATION	Y- ROTATION	Z- ROTATION
2	-5.43827E-04	4.06917E-04	-2.95110E-03	-4.93138E-06	1.76181E-04	3.48445E-05
3	-6.73571E-04	7.23265E-04	-4.47050E-03	-8.33646E-07	3.22844E-04	8.93777E-05
4	-6.58910E-04	1.00651E-03	-5.62460E-03	-1.59360E-06	3.27895E-04	9.31884E-05
5	4.29631E-03	4.97068E-03	-8.49115E-03	-1.75104E-05	-7.55419E-04	2.15258E-04
6	4.78219E-02	2.35799E-03	-9.10142E-03	-9.91214E-05	-6.99052E-04	2.61385E-04
7	4.72587E-02	8.01404E-05	-2.07457E-02	-4.63352E-04	9.52294E-04	1.25745E-04
8	6.03715E-02	1.53509E-02	-3.88528E-02	-6.46370E-04	2.64449E-04	1.38404E-04
9	7.17945E-02	4.94338E-02	-3.92799E-02	-5.44859E-04	2.44516E-04	-3.87478E-07
10	8.29557E-02	4.10541E-02	-5.42828E-02	5.18758E-04	7.31477E-04	-9.10085E-04
11	8.25497E-02	5.97364E-03	-7.90353E-02	8.26977E-04	5.97897E-04	-9.99764E-04
12	8.15914E-02	-5.28160E-02	-1.07704E-01	1.34067E-03	4.37246E-04	-8.75478E-04
13	8.07819E-02	-8.32669E-02	-1.26810E-01	1.67458E-03	7.24488E-04	-7.02864E-04
14	-2.34791E-04	-4.88618E-02	-1.78169E-01	2.15504E-03	5.12183E-03	-2.69926E-04
15	-2.32675E-01	4.82728E-02	-1.77327E-01	1.83482E-03	4.16189E-03	-4.28646E-04
16	-2.90593E-01	7.47103E-02	-1.76739E-01	1.61478E-03	3.43313E-03	-4.80640E-04
17	-2.97466E-01	8.05004E-02	-1.71860E-01	-3.93480E-04	-2.62367E-03	-7.43730E-04
18	-1.48634E-01	-7.72354E-04	-4.11931E-03	-7.56395E-04	-2.25400E-03	-1.06693E-03
19	-1.40136E-01	-9.72469E-03	5.77073E-03	-7.27770E-04	-1.95334E-03	-1.09995E-03
20	-1.27825E-01	-2.64377E-02	2.10959E-02	-6.60924E-04	-1.50872E-03	-1.11819E-03
21	-1.30909E-01	-3.90425E-02	5.95961E-03	2.11425E-04	2.31284E-03	-1.82687E-04
22	-1.30874E-01	-4.25736E-02	-4.29301E-02	2.47137E-04	2.25159E-03	-1.24654E-04
23	-1.27462E-01	-4.25890E-02	-3.14953E-02	2.28533E-04	2.25159E-03	-4.93652E-05
24	-1.30726E-01	-4.46030E-02	-8.87688E-02	2.91785E-04	2.04773E-03	-6.55070E-05
25	-1.30452E-01	-4.47371E-02	-1.12750E-01	3.74449E-04	1.49123E-03	5.24023E-05
26	-1.30161E-01	-4.32820E-02	-1.28586E-01	4.57113E-04	8.03305E-04	1.74519E-04
27	-1.30004E-01	-3.89198E-02	-1.41259E-01	5.01762E-04	3.42452E-04	2.41894E-04
28	-1.44906E-01	-3.89339E-02	-1.19209E-01	4.31348E-04	3.42452E-04	3.27487E-04
29	-1.29731E-01	-3.34318E-02	-1.43006E-01	5.80238E-04	-1.50726E-04	2.57587E-04
30	-1.29246E-01	-3.00761E-02	-1.35709E-01	7.19610E-04	-9.61894E-04	2.26287E-04
31	-1.15905E-01	-2.32560E-02	-1.10234E-01	8.60849E-04	-2.83090E-03	7.62391E-05
32	-3.87056E-02	-3.15244E-03	-3.63141E-02	1.02151E-03	-3.04180E-03	-3.80733E-04

FINAL ANALYSIS

MODE NUMBER 7
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	0.	0.	0.	0.	0.	0.
2	1.82820E-03	-1.36794E-03	9.92079E-03	1.65779E-05	-9.92271E-04	-1.17138E-04
3	2.26436E-03	-2.43142E-03	1.50286E-02	2.80209E-06	-1.08531E-03	-3.00463E-04
4	2.21508E-03	-3.38362E-03	1.89083E-02	5.35724E-06	-1.10229E-03	-3.13274E-04
5	-1.44430E-02	-1.67101E-02	2.85449E-02	5.88651E-05	2.53951E-03	-7.23640E-04
6	-1.60764E-01	-7.92691E-03	3.05965E-02	3.33219E-04	2.35002E-03	-8.78704E-04
7	-1.58871E-01	-2.69410E-04	6.97414E-02	1.55766E-03	-3.20135E-03	-4.22720E-04
8	-2.02952E-01	-5.16055E-02	1.30612E-01	2.17292E-03	-8.89006E-04	-4.65275E-04
9	-2.41353E-01	-1.66183E-01	1.32048E-01	1.83167E-03	-8.21994E-04	1.30259E-06
10	-2.78874E-01	-1.38013E-01	1.82484E-01	-1.74392E-03	-2.45902E-03	3.05946E-03
11	-2.77509E-01	-2.00817E-02	2.65695E-01	-2.78007E-03	-2.00996E-03	3.36093E-03
12	-2.74288E-01	1.77553E-01	3.62071E-01	-4.50698E-03	-1.46990E-03	2.94312E-03
13	-2.71567E-01	2.79921E-01	4.26302E-01	-5.62947E-03	-2.43553E-03	2.36284E-03
14	7.89303E-04	1.64260E-01	5.98954E-01	-7.24467E-03	-1.72182E-02	9.07417E-04
15	7.82190E-01	-1.62280E-01	5.96124E-01	-6.16816E-03	-1.39911E-02	1.44099E-03
16	9.76894E-01	-2.51156E-01	5.94147E-01	-5.42845E-03	-1.15412E-02	1.61578E-03
17	1.00000E+00	-2.70620E-01	5.77748E-01	1.32277E-03	6.82007E-03	2.50022E-03
18	4.99668E-01	2.59644E-03	1.38480E-02	2.54279E-03	7.57731E-03	3.58672E-03
19	4.71098E-01	3.26917E-02	-1.93996E-02	2.44656E-03	6.56659E-03	3.69771E-03
20	4.29712E-01	8.88762E-02	-7.09186E-02	2.22189E-03	5.07189E-03	3.75905E-03
21	4.40079E-01	1.31250E-01	-2.00346E-02	-7.10753E-04	-7.77515E-03	6.14142E-04
22	4.39961E-01	1.43121E-01	1.44319E-01	-8.30806E-04	-7.56922E-03	4.19051E-04
23	4.28491E-01	1.43172E-01	1.05879E-01	-7.68266E-04	-7.56922E-03	1.65952E-04
24	4.39464E-01	1.49943E-01	2.98416E-01	-9.80903E-04	-6.88390E-03	2.20216E-04
25	4.38543E-01	1.50394E-01	3.79033E-01	-1.25880E-03	-5.01310E-03	-1.76162E-04
26	4.37565E-01	1.45502E-01	4.32271E-01	-1.53669E-03	-2.70049E-03	-5.86687E-04
27	4.37038E-01	1.30838E-01	4.74873E-01	-1.68679E-03	-1.15123E-03	-8.13182E-04
28	4.87136E-01	1.30885E-01	4.00749E-01	-1.45007E-03	-1.15123E-03	-1.10092E-03
29	4.36120E-01	1.12388E-01	4.80746E-01	-1.95060E-03	5.06699E-04	-8.65938E-04
30	4.34490E-01	1.01108E-01	4.56217E-01	-2.41913E-03	3.23362E-03	-7.60715E-04
31	3.89642E-01	7.81802E-02	3.70575E-01	-2.89394E-03	9.51671E-03	-2.56295E-04
32	1.30118E-01	1.05976E-02	1.22078E-01	-3.43404E-03	1.02257E-02	1.27992E-03
33	0.	0.	0.	0.	0.	0.
34	0.	0.	0.	0.	0.	0.
35	0.	0.	0.	0.	0.	0.
36	0.	0.	0.	0.	0.	0.
37	0.	0.	0.	0.	0.	0.
38	0.	0.	0.	0.	0.	0.
39	0.	0.	0.	0.	0.	0.

MODAL ANALYSIS

MODE NUMBER R
FREQUENCY = 27.1936 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X- TRANSLATION	Y- TRANSLATION	Z- TRANSLATION	X- ROTATION	Y- ROTATION	Z- ROTATION
2	-6.28921E-03	3.35795E-04	-3.24773E-02	-7.20160E-06	2.01139E-03	2.97365E-05
3	-7.85502E-03	6.02563E-04	-4.99720E-02	-4.47293E-06	3.88521E-03	7.63058E-05
4	-7.73513E-03	8.43848E-04	-6.35657E-02	-5.57596E-06	3.96408E-03	7.96137E-05
5	-2.34472E-03	4.07225E-03	-1.24729E-01	-2.61862E-05	-4.99260E-03	1.86212E-04
6	2.98589E-01	1.24706E-03	-1.30796E-01	-9.27727E-05	-4.84278E-03	2.32421E-04
7	2.89311E-01	7.69802E-05	-2.15291E-01	-3.64503E-04	5.62374E-03	1.53223E-04
8	2.79843E-01	1.32897E-02	-2.74964E-01	-4.86944E-04	-4.90468E-03	1.66786E-04
9	-2.23761E-02	3.83618E-02	-2.78223E-01	-3.78304E-04	-5.39812E-03	5.51056E-05
10	-8.01526E-02	2.92482E-02	-2.61055E-01	6.09957E-04	1.57660E-04	-7.53114E-04
11	-8.07309E-02	2.84648E-04	-2.60201E-01	9.00339E-04	-6.13136E-04	-8.07696E-04
12	-8.12879E-02	-4.43827E-02	-1.57352E-01	1.38431E-03	-2.77078E-03	-5.91339E-04
13	-8.13754E-02	-6.25719E-02	-2.65182E-02	1.69889E-03	-3.62090E-03	-3.70950E-04
14	-4.72107E-03	-2.14121E-02	5.65020E-02	2.01696E-03	-2.69973E-03	2.82437E-05
15	1.03265E-01	6.69525E-02	5.73309E-02	1.56216E-03	-1.76093E-03	-1.58862E-04
16	1.26384E-01	8.84987E-02	5.74532E-02	1.30086E-03	-1.40190E-03	-2.20169E-04
17	1.28728E-01	8.97664E-02	5.64642E-02	-4.56112E-04	8.53025E-04	-9.81238E-04
18	4.75507E-02	4.82642E-04	-6.83501E-04	-1.20393E-03	1.75966E-03	-4.66544E-04
19	3.81072E-02	-7.15517E-03	-8.09262E-03	-1.24009E-03	1.80490E-03	-3.78277E-04
20	2.02703E-02	-2.10574E-02	-2.20607E-02	-1.33970E-03	1.80493E-03	-2.21708E-04
21	1.31307E-02	-2.46219E-02	-3.16841E-02	-1.47863E-03	-2.73591E-04	8.15493E-04
22	1.30831E-02	-7.20655E-03	-2.54394E-02	-1.52574E-03	-3.33023E-04	8.29571E-04
23	-2.84186E-02	-7.21039E-03	-1.03362E-01	-1.61589E-03	-3.33023E-04	8.54356E-04
24	1.30233E-02	1.01582E-02	-1.76920E-02	-1.52955E-03	-3.87940E-04	8.04216E-04
25	1.29127E-02	2.02429E-02	-1.20340E-02	-1.53661E-03	-4.43990E-04	7.03225E-04
26	1.27945E-02	2.87381E-02	-5.86765E-03	-1.54367E-03	-4.64362E-04	5.62483E-04
27	1.27384E-02	3.96625E-02	3.91404E-03	-1.54748E-03	-4.49513E-04	4.59395E-04
28	-1.00674E-02	3.96837E-02	-7.41624E-02	-1.61216E-03	-4.49513E-04	4.68175E-04
29	1.26632E-02	4.79993E-02	1.30506E-02	-1.52022E-03	-4.00531E-04	3.52393E-04
30	1.25298E-02	5.12143E-02	1.74720E-02	-1.47180E-03	-2.62234E-04	2.07792E-04
31	1.21996E-02	4.39931E-02	1.82663E-02	-1.43655E-03	1.69960E-04	-4.32946E-05
32	4.41873E-03	1.03813E-02	1.11541E-02	-1.08068E-03	3.52948E-04	-1.73818E-04

M A L A N A L Y S I S

MODE NUMBER 8
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NUDES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	0.	0.	0.	0.	0.	0.
2	-2.10631E-02	1.12461E-03	-1.08769E-01	-2.41188E-05	6.73632E-03	9.95901E-05
3	-2.63072E-02	2.01804E-03	-1.67361E-01	-1.49802E-05	1.30119E-02	2.95555E-04
4	-2.59057E-02	2.82612E-03	-2.12887E-01	-1.86744E-05	1.32761E-02	2.66633E-04
5	-7.85268E-03	1.36383E-02	-4.17730E-01	-8.77001E-05	-1.67207E-02	6.23642E-04
6	1.00000E+00	4.17650E-03	-4.38046E-01	-3.10704E-04	-1.62189E-02	7.78400E-04
7	9.68924E-01	2.57813E-04	-7.21027E-01	-1.22075E-03	1.88344E-02	5.13156E-04
8	9.37219E-01	4.45045E-02	-9.20878E-01	-1.63082E-03	-1.64262E-02	5.58580E-04
9	-7.49395E-02	1.28477E-01	-9.31795E-01	-1.26698E-03	-1.80788E-02	1.84554E-04
10	-2.68438E-01	9.79550E-02	-8.74296E-01	2.04280E-03	5.28018E-04	-2.52225E-03
11	-2.70375E-01	9.53314E-04	-8.71837E-01	3.01532E-03	-2.05345E-03	-2.70505E-03
12	-2.72240E-01	-1.48642E-01	-5.26987E-01	4.63617E-03	-9.27960E-03	-1.98045E-03
13	-2.72534E-01	-2.09559E-01	-8.88118E-02	5.68973E-03	-1.21267E-02	-1.24234E-03
14	-1.58113E-02	-7.17112E-02	1.89230E-01	6.75497E-03	-9.04165E-03	4.47581E-05
15	3.45845E-01	2.24230E-01	1.92006E-01	5.23183E-03	-5.89618E-03	-5.32042E-04
16	4.23290E-01	2.96390E-01	1.92416E-01	4.35671E-03	-4.69509E-03	-7.37367E-04
17	4.31121E-01	3.00636E-01	1.89104E-01	-1.52756E-03	2.85646E-03	-3.28625E-03
18	1.59251E-01	1.61641E-03	-2.28911E-03	-4.03206E-03	5.89327E-03	-1.56250E-03
19	1.27624E-01	-2.39633E-02	-2.71029E-02	-4.15317E-03	6.04476E-03	-1.26688E-03
20	6.78870E-02	-7.05231E-02	-7.38833E-02	-4.48679E-03	6.04487E-03	-7.42519E-04
21	4.39760E-02	-8.24611E-02	-1.06113E-01	-4.95205E-03	-9.16282E-04	2.73116E-03
22	4.38166E-02	-2.41354E-02	-8.31989E-02	-5.10985E-03	-1.11532E-03	2.77831E-03
23	-9.51764E-02	-2.41483E-02	-3.46168E-01	-5.41176E-03	-1.11532E-03	2.86131E-03
24	4.36164E-02	3.40208E-02	-5.92521E-02	-5.12262E-03	-1.29925E-03	2.69339E-03
25	4.32457E-02	6.77952E-02	-4.03029E-02	-5.14625E-03	-1.48696E-03	2.35516E-03
26	4.28668E-02	9.62463E-02	-1.76513E-02	-5.16988E-03	-1.55519E-03	1.88381E-03
27	4.26622E-02	1.32833E-01	1.31085E-02	-5.18264E-03	-1.50546E-03	1.53856E-03
28	-3.37166E-02	1.32904E-01	-2.48377E-01	-5.39926E-03	-1.50546E-03	1.56796E-03
29	4.24102E-02	1.60754E-01	4.37077E-02	-5.09135E-03	-1.34141E-03	1.18020E-03
30	4.19627E-02	1.71521E-01	5.55154E-02	-4.92920E-03	-8.78245E-04	6.95913E-04
31	4.08576E-02	1.47337E-01	6.11755E-02	-4.81113E-03	9.69210E-04	-1.44997E-04
32	1.47987E-02	3.47678E-02	3.73560E-02	-3.61930E-03	1.18206E-03	-5.82132E-04
33	0.	0.	0.	0.	0.	0.
34	0.	0.	0.	0.	0.	0.
35	0.	0.	0.	0.	0.	0.
36	0.	0.	0.	0.	0.	0.
37	0.	0.	0.	0.	0.	0.
38	0.	0.	0.	0.	0.	0.
39	0.	0.	0.	0.	0.	0.

MODAL ANALYSIS

MODE NUMBER 9
FREQUENCY = 28.0111 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NUDES

NODE NUMBER	X=	Y=	Z=	X=	Y=	Z=
	TRANSLATION	TRANSLATION	TRANSLATION	ROTATION	ROTATION	ROTATION
2	2.00160E-03	1.49271E-03	1.03142E-02	-3.61108E-05	-6.41281E-04	1.33608E-04
3	2.50219E-03	2.68758E-03	1.58981E-02	-2.47804E-05	-1.24547E-03	3.43157E-04
4	2.46461E-03	3.77178E-03	2.02473E-02	-3.03002E-05	-1.27131E-03	3.58116E-04
5	2.66639E-03	1.81112E-02	4.07590E-02	-1.31527E-04	1.43923E-03	8.41180E-04
6	-8.43125E-02	4.67086E-03	4.26614E-02	-4.27520E-04	1.37057E-03	1.05766E-03
7	-7.73885E-02	3.54057E-04	7.38658E-02	-1.60282E-03	-2.03193E-03	7.46039E-04
8	-8.46363E-02	6.01408E-02	1.00343E-01	-2.11981E-03	9.23303E-04	8.16045E-04
9	-2.25934E-02	1.68596E-01	1.01224E-01	-1.61047E-03	1.16160E-03	3.25432E-04
10	-6.51125E-03	1.26380E-01	9.05911E-02	2.89724E-03	6.07848E-04	-3.32222E-03
11	-6.23006E-03	-1.42011E-03	6.50870E-02	4.22638E-03	8.42288E-04	-3.55403E-03
12	-5.72812E-03	-1.96316E-01	5.61902E-03	6.44161E-03	9.89821E-04	-2.53460E-03
13	-5.38133E-03	-2.72709E-01	-2.97201E-02	7.88151E-03	7.23233E-04	-1.52966E-03
14	1.45690E-02	-8.13697E-02	-2.37005E-02	9.19189E-03	-1.52181E-03	1.29306E-04
15	8.41098E-02	3.19920E-01	-2.37524E-02	7.03114E-03	-1.21671E-03	-8.09804E-04
16	1.00479E-01	4.16168E-01	-2.37039E-02	5.81957E-03	-9.98525E-04	-1.11743E-03
17	1.00654E-01	4.20667E-01	-2.31806E-02	-2.43047E-03	2.67348E-04	-4.08001E-03
18	2.29320E-02	1.12337E-03	-1.68829E-04	-5.80742E-03	8.91097E-04	-2.60532E-03
19	1.57379E-02	-3.85529E-02	1.80544E-03	-5.96993E-03	9.22055E-04	-2.31757E-03
20	2.44522E-03	-1.11883E-01	6.61871E-03	-6.29204E-03	9.47823E-04	-1.78069E-03
21	-1.23085E-03	-1.39061E-01	1.06284E-02	-5.63147E-03	-2.05677E-04	3.03493E-03
22	-1.25572E-03	-7.39679E-02	1.51056E-02	-5.73174E-03	-2.21225E-04	3.15670E-03
23	-1.61138E-01	-7.40097E-02	-2.74603E-01	-5.98585E-03	-2.21225E-04	3.30591E-03
24	-1.26039E-03	-6.97027E-03	1.99282E-02	-5.70994E-03	-2.29399E-04	3.14596E-03
25	-1.26904E-03	3.35406E-02	2.29846E-02	-5.66957E-03	-2.21094E-04	2.91516E-03
26	-1.27744E-03	6.99938E-02	2.58023E-02	-5.62921E-03	-1.96616E-04	2.52599E-03
27	-1.28197E-03	1.20468E-01	2.97586E-02	-5.60740E-03	-1.73164E-04	2.20558E-03
28	-1.13005E-01	1.20536E-01	-2.93153E-01	-5.84166E-03	-1.73164E-04	2.31015E-03
29	-1.27180E-03	1.62257E-01	3.30834E-02	-5.47308E-03	-1.42427E-04	1.81595E-03
30	-1.25374E-03	1.80567E-01	3.45139E-02	-5.23448E-03	-8.51315E-05	1.23023E-03
31	-1.32245E-03	1.60136E-01	3.46881E-02	-5.07705E-03	7.74329E-05	7.63038E-05
32	-4.82930E-03	4.30669E-02	3.11339E-02	-3.73249E-03	2.14952E-04	-8.65939E-04

ANALYSIS

MODE NUMBER 9
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	0.	0.	0.	0.	0.	0.
2	4.75815E-03	3.54845E-03	2.45186E-02	-8.58419E-05	-1.52444E-03	3.17610E-04
3	5.94814E-03	6.38886E-03	3.77926E-02	-5.89075E-05	-2.96070E-03	8.15745E-04
4	5.85883E-03	8.96620E-03	4.81316E-02	-7.20291E-05	-3.02213E-03	8.51307E-04
5	6.33849E-03	4.30535E-02	9.68914E-02	-3.12663E-04	3.42132E-03	1.99964E-03
6	-2.00426E-01	1.11035E-02	1.01414E-01	-1.01629E-03	3.25809E-03	2.51424E-03
7	-1.83966E-01	8.41657E-04	1.75592E-01	-3.81019E-03	-4.83027E-03	1.77347E-03
8	-2.01196E-01	1.42965E-01	2.38533E-01	-5.03916E-03	2.19486E-03	1.93988E-03
9	-5.37086E-02	4.00782E-01	2.40627E-01	-3.82837E-03	2.76134E-03	7.73610E-04
10	-1.54784E-02	3.00428E-01	2.15351E-01	6.88726E-03	1.44496E-03	-7.89750E-03
11	-1.48100E-02	-3.37586E-03	1.54723E-01	1.00469E-02	2.00227E-03	-8.44857E-03
12	-1.36168E-02	-4.66678E-01	1.33574E-02	1.53129E-02	2.35298E-03	-6.02519E-03
13	-1.27924E-02	-6.48278E-01	-7.06501E-02	1.87358E-02	1.71926E-03	-3.63627E-03
14	3.46330E-02	-1.93430E-01	-5.63403E-02	2.18508E-02	-3.61762E-03	3.07383E-04
15	1.99944E-01	7.60507E-01	-5.64638E-02	1.67143E-02	-2.89234E-03	-1.92505E-03
16	2.38856E-01	9.89306E-01	-5.63484E-02	1.38342E-02	-2.37367E-03	-2.65634E-03
17	2.39272E-01	1.00000E+00	-5.51044E-02	-5.77767E-03	6.35535E-04	-9.69892E-03
18	5.45134E-02	2.67045E-03	-4.01336E-04	-1.38053E-02	2.11830E-03	-6.19332E-03
19	3.74119E-02	-9.16472E-02	4.29185E-03	-1.41916E-02	2.19159E-03	-5.50929E-03
20	5.81272E-03	-2.65966E-01	1.57339E-02	-1.49573E-02	2.25315E-03	-4.23302E-03
21	-2.92595E-03	-3.30573E-01	2.52657E-02	-1.33870E-02	-4.88930E-04	7.21456E-03
22	-2.98508E-03	-1.75835E-01	3.59087E-02	-1.36254E-02	-5.25891E-04	7.50405E-03
23	-3.83053E-01	-1.75934E-01	-6.52781E-01	-1.42294E-02	-5.25891E-04	7.85851E-03
24	-2.99618E-03	-1.65696E-02	4.73730E-02	-1.35736E-02	-5.45322E-04	7.47852E-03
25	-3.01674E-03	7.97321E-02	5.46386E-02	-1.34776E-02	-5.25581E-04	6.92985E-03
26	-3.03669E-03	1.66388E-01	6.13367E-02	-1.33816E-02	-4.67392E-04	6.00473E-03
27	-3.04747E-03	2.86374E-01	7.07415E-02	-1.33298E-02	-4.11641E-04	5.24305E-03
28	-2.68633E-01	2.86536E-01	-6.01791E-01	-1.38867E-02	-4.11641E-04	5.49163E-03
29	-3.02329E-03	3.85714E-01	7.86453E-02	-1.30105E-02	-3.38575E-04	4.31685E-03
30	-2.98035E-03	4.29241E-01	8.20456E-02	-1.24433E-02	-2.02373E-04	2.92448E-03
31	-3.14371E-03	3.80673E-01	8.24598E-02	-1.20691E-02	1.84072E-04	1.81388E-04
32	-1.14801E-02	1.02378E-01	7.40109E-02	-8.87279E-03	5.10980E-04	-2.05849E-03
33	0.	0.	0.	0.	0.	0.
34	0.	0.	0.	0.	0.	0.
35	0.	0.	0.	0.	0.	0.
36	0.	0.	0.	0.	0.	0.
37	0.	0.	0.	0.	0.	0.
38	0.	0.	0.	0.	0.	0.
39	0.	0.	0.	0.	0.	0.

MODAL ANALYSIS

MODE NUMBER 10
FREQUENCY = 37.9838 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
2	-1.72955E-03	4.20420E-04	-8.59144E-03	-5.88878E-05	5.42560E-04	5.62324E-05
3	-2.16875E-03	8.83411E-04	-1.33269E-02	-6.45104E-05	1.07532E-03	1.51479E-04
4	-2.14627E-03	1.34889E-03	-1.70473E-02	-7.33186E-05	1.09960E-03	1.59243E-04
5	-1.13906E-02	5.89627E-03	-3.89017E-02	-2.13848E-04	-5.18126E-04	4.23491E-04
6	2.35077E-02	-8.53295E-03	-4.02802E-02	-3.09637E-04	-5.14255E-04	6.21658E-04
7	1.38843E-02	2.21610E-04	-6.27376E-02	-3.16952E-04	1.14248E-03	9.84968E-04
8	2.14911E-02	3.24617E-02	-7.63921E-02	-2.41230E-04	-9.98991E-06	1.17276E-03
9	1.37911E-02	3.81714E-02	-7.61749E-02	1.61689E-04	-3.29279E-04	1.11768E-03
10	-9.86100E-03	1.66908E-02	-4.01076E-02	2.55065E-03	-2.39445E-03	-4.06040E-04
11	-9.69379E-03	-7.94751E-04	4.74634E-02	3.30852E-03	-2.15552E-03	-5.50170E-04
12	-9.31984E-03	-3.91287E-02	1.32207E-01	4.57165E-03	-3.71891E-04	-7.04334E-04
13	-9.01536E-03	-6.92735E-02	1.19236E-01	5.39268E-03	7.33454E-04	-9.69401E-04
14	-2.49289E-02	-5.15934E-03	9.25556E-02	4.58491E-03	-2.86410E-04	-3.57511E-03
15	-4.03492E-03	1.94848E-01	9.06869E-02	3.45887E-03	-3.56192E-04	-5.45186E-03
16	1.01784E-03	2.39971E-01	8.96145E-02	2.98785E-03	-1.72170E-04	-6.06664E-03
17	-2.29551E-02	2.28383E-01	7.73921E-02	1.66202E-03	1.86636E-03	-7.25893E-03
18	-1.39097E-01	4.94094E-03	9.54091E-03	4.77848E-03	-2.67083E-03	-5.68743E-03
19	-1.27480E-01	5.09064E-03	2.14609E-02	5.25303E-03	-3.41484E-03	-5.27796E-03
20	-9.80302E-02	1.51942E-02	4.90775E-02	6.04893E-03	-4.19089E-03	-4.75841E-03
21	-7.13828E-02	5.04264E-02	1.00627E-01	1.03706E-02	-1.08017E-03	5.08126E-04
22	-7.12563E-02	6.10976E-02	1.21348E-01	1.05133E-02	-6.45337E-04	3.94821E-04
23	-9.64530E-02	6.11611E-02	6.82482E-01	1.17745E-02	-6.45337E-04	5.58441E-04
24	-7.09470E-02	6.64948E-02	1.27935E-01	1.02980E-02	-3.01117E-05	1.12685E-04
25	-7.03743E-02	6.45593E-02	1.21026E-01	9.71430E-03	9.79039E-04	-4.27272E-04
26	-6.97757E-02	5.54568E-02	1.01529E-01	9.13061E-03	1.87201E-03	-9.71390E-04
27	-6.94524E-02	3.19837E-02	5.74643E-02	8.81534E-03	2.26007E-03	-1.26166E-03
28	-8.1782E-03	3.20169E-02	5.20734E-01	9.70140E-03	2.26007E-03	-1.24774E-03
29	-6.89652E-02	2.34939E-03	6.29821E-03	8.07441E-03	2.37633E-03	-1.50098E-03
30	-6.81006E-02	-1.89015E-02	-2.43250E-02	6.75852E-03	1.97917E-03	-1.77372E-03
31	-7.08978E-02	-1.61888E-02	-3.96887E-02	4.99945E-03	-6.09314E-05	-2.51700E-03
32	-4.76478E-02	1.27052E-02	-2.09575E-02	2.41920E-03	-1.18507E-03	-2.24234E-03

M A L A N A L Y S I S

MODE NUMBER 10
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	0.	0.	0.	0.	0.	0.
2	-2.53421E-03	6.16016E-04	-1.25885E-02	-8.62848E-05	7.94981E-04	8.23940E-05
3	-3.17774E-03	1.29441E-03	-1.95272E-02	-9.45232E-05	1.57560E-03	2.21953E-04
4	-3.14480E-03	1.97644E-03	-2.49784E-02	-1.07429E-04	1.61117E-03	2.33329E-04
5	-1.66899E-02	8.50759E-03	-5.76004E-02	-3.13339E-04	-7.59180E-04	6.21249E-04
6	3.44444E-02	-1.25028E-02	-5.90203E-02	-4.53692E-04	-7.53507E-04	9.10878E-04
7	2.03439E-02	3.24711E-04	-9.19256E-02	-4.64411E-04	1.67401E-03	1.44322E-03
8	3.14896E-02	4.75642E-02	-1.11933E-01	-3.53460E-04	-1.46376E-05	1.71838E-03
9	2.02073E-02	5.59303E-02	-1.11615E-01	2.36914E-04	-4.82474E-04	1.63767E-03
10	-1.44487E-02	2.44561E-02	-5.87673E-02	3.73731E-03	-3.50845E-03	-5.94446E-04
11	-1.42037E-02	-1.16450E-03	6.95454E-02	4.84778E-03	-3.15836E-03	-8.06132E-04
12	-1.36558E-02	-5.73330E-02	1.93715E-01	6.69856E-03	-5.44910E-04	-1.03202E-03
13	-1.32097E-02	-1.01502E-01	1.74710E-01	7.90157E-03	1.07469E-03	-1.42041E-03
14	-3.65268E-02	-7.55968E-03	1.35616E-01	6.71799E-03	-4.19660E-04	-5.23840E-03
15	-5.91213E-03	2.85499E-01	1.32878E-01	5.06808E-03	-5.21908E-04	-7.98828E-03
16	1.49138E-03	3.51616E-01	1.31307E-01	4.37792E-03	-2.52271E-04	-8.89909E-03
17	-3.36348E-02	3.34635E-01	1.13398E-01	2.43527E-03	2.73467E-03	-1.06361E-02
18	-2.03811E-01	7.23967E-03	1.59797E-02	7.00162E-03	-3.91340E-03	-8.33345E-03
19	-1.86790E-01	7.45902E-03	3.14454E-02	7.69695E-03	-5.00356E-03	-7.73349E-03
20	-1.43638E-01	2.22632E-02	7.19103E-02	8.86314E-03	-6.14067E-03	-6.97221E-03
21	-1.04593E-01	7.38868E-02	1.47442E-01	1.51955E-02	-1.58272E-03	7.44527E-04
22	-1.04408E-01	8.95226E-02	1.77804E-01	1.55510E-02	-9.45574E-04	5.78507E-04
23	-1.41327E-01	8.96157E-02	1.00000E+00	1.72529E-02	-9.45574E-04	8.18983E-04
24	-1.03954E-01	9.74309E-02	1.67456E-01	1.50890E-02	-4.41208E-05	1.65111E-04
25	-1.03115E-01	9.45950E-02	1.77332E-01	1.42338E-02	1.43453E-03	-6.26057E-04
26	-1.02234E-01	8.12575E-02	1.48765E-01	1.33785E-02	2.74295E-03	-1.42332E-03
27	-1.01764E-01	4.68638E-02	8.41940E-02	1.29166E-02	3.31154E-03	-1.84864E-03
28	-1.19841E-02	4.69125E-02	7.63001E-01	1.42149E-02	3.31154E-03	-1.82824E-03
29	-1.01051E-01	3.44243E-03	9.22840E-03	1.18310E-02	3.46189E-03	-2.19429E-03
30	-9.97829E-02	-2.76953E-02	-3.56420E-02	9.90286E-03	2.89996E-03	-2.59893E-03
31	-1.03882E-01	-2.37204E-02	-5.81536E-02	7.32540E-03	-8.92792E-05	-3.68801E-03
32	-6.98155E-02	1.86162E-02	-3.37079E-02	3.54472E-03	-1.73642E-03	-3.28557E-03
33	0.	0.	0.	0.	0.	0.
34	0.	0.	0.	0.	0.	0.
35	0.	0.	0.	0.	0.	0.
36	0.	0.	0.	0.	0.	0.
37	0.	0.	0.	0.	0.	0.
38	0.	0.	0.	0.	0.	0.
39	0.	0.	0.	0.	0.	0.

MODAL ANALYSIS

MODE NUMBER 11
FREQUENCY = 40.9749 HZ

EIGENVECTORS NORMALIZED TO A UNIT MASS MATRIX

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
2	3.01882E-03	5.16535E-04	1.48744E-02	-3.69285E-05	-9.38795E-04	5.43061E-05
3	3.78436E-03	9.79211E-04	2.30620E-02	-3.79345E-05	-1.85865E-03	1.40512E-04
4	3.74910E-03	1.41852E-03	2.94907E-02	-4.35385E-05	-1.90056E-03	1.47086E-04
5	2.18360E-02	6.17940E-03	6.80941E-02	-1.36421E-04	7.18892E-04	3.64577E-04
6	-2.88732E-02	-3.71421E-03	7.03850E-02	-2.35979E-04	7.40928E-04	5.04222E-04
7	-1.29437E-02	1.84086E-04	1.05557E-01	-4.33535E-04	-1.65646E-03	6.44266E-04
8	-2.73101E-02	2.69054E-02	1.24844E-01	-4.60869E-04	-4.27895E-04	7.41127E-04
9	-4.07459E-02	4.66168E-02	1.24010E-01	-1.47760E-04	1.25020E-04	6.21795E-04
10	-9.81087E-04	2.53943E-02	5.71939E-02	1.95395E-03	4.46847E-03	-8.56572E-04
11	-1.19139E-03	-8.08026E-03	-1.04226E-01	2.60145E-03	3.80322E-03	-9.05795E-04
12	-1.52826E-03	-5.37272E-02	-2.30414E-01	3.68061E-03	-1.95785E-04	-4.92501E-04
13	-1.73551E-03	-6.59748E-02	-1.65767E-01	4.38207E-03	-2.51774E-03	-2.89339E-04
14	6.57687E-02	1.21213E-02	-8.28545E-02	3.66567E-03	-1.15136E-03	-1.59825E-03
15	9.35219E-02	1.62575E-01	-7.95038E-02	2.17505E-03	-1.67971E-04	-2.96759E-03
16	9.19997E-02	1.87125E-01	-7.79366E-02	1.51672E-03	-1.28701E-04	-3.41615E-03
17	1.01745E-01	1.58897E-01	-6.57546E-02	-1.01097E-03	-2.17708E-03	-4.35376E-03
18	1.12613E-01	8.76373E-03	-9.89850E-03	4.52229E-03	1.94678E-03	-1.23653E-03
19	9.79562E-02	3.31382E-02	-2.96444E-02	5.40493E-03	2.66475E-03	-6.66128E-04
20	6.47326E-02	9.37749E-02	-7.67739E-02	6.45226E-03	3.37827E-03	-3.99975E-05
21	4.16996E-02	1.68233E-01	-1.40853E-01	8.41120E-03	7.37707E-04	-2.01721E-04
22	4.14922E-02	1.62333E-01	-1.54493E-01	8.46190E-03	3.65085E-04	-6.38668E-04
23	7.83034E-02	1.62530E-01	2.79590E-01	9.01591E-03	3.65085E-04	-7.93716E-04
24	4.11555E-02	1.42242E-01	-1.56344E-01	8.24664E-03	-1.46062E-04	-1.22302E-03
25	4.05320E-02	1.19469E-01	-1.48391E-01	7.84810E-03	-9.77061E-04	-2.16503E-03
26	3.98911E-02	8.50007E-02	-1.30022E-01	7.44957E-03	-1.69557E-03	-2.98019E-03
27	3.95449E-02	1.81373E-02	-9.06605E-02	7.23431E-03	-1.98675E-03	-3.31649E-03
28	2.17300E-01	1.81593E-02	2.83604E-01	7.79587E-03	-1.98675E-03	-3.74677E-03
29	3.90376E-02	-5.28070E-02	-4.63161E-02	6.74928E-03	-2.04656E-03	-3.33111E-03
30	3.81365E-02	-9.42874E-02	-2.03758E-02	5.88787E-03	-1.66803E-03	-3.07895E-03
31	3.99519E-02	-1.01227E-01	-8.12425E-03	4.98967E-03	6.67141E-05	-2.17641E-03
32	2.13942E-02	-3.59703E-02	-2.23671E-02	3.11848E-03	7.82834E-04	-2.50513E-04

IDEAL ANALYSIS

MODE NUMBER 11
EIGENVECTORS NORMALIZED TO 1.000

DISPLACEMENTS/ROTATIONS OF UNRESTRAINED NODES

NODE NUMBER	X= TRANSLATION	Y= TRANSLATION	Z= TRANSLATION	X= ROTATION	Y= ROTATION	Z= ROTATION
1	0.	0.	0.	0.	0.	0.
2	1.06445E-02	1.82132E-03	5.24478E-02	-1.30211E-04	-3.31023E-03	1.91486E-04
3	1.33438E-02	3.45274E-03	8.13177E-02	-1.33759E-04	-6.55368E-03	4.95450E-04
4	1.32195E-02	5.00176E-03	1.03986E-01	-1.53519E-04	-6.70147E-03	5.18634E-04
5	7.69946E-02	2.17888E-02	2.40103E-01	-4.81027E-04	2.53485E-03	1.28551E-03
6	-1.01808E-01	-1.30965E-02	2.48181E-01	-8.32071E-04	2.61255E-03	1.77791E-03
7	-4.56402E-02	6.49096E-04	3.72198E-01	-1.52866E-03	-5.80074E-03	2.27171E-03
8	-9.62965E-02	9.48695E-02	4.40205E-01	-1.62504E-03	-1.50878E-03	2.61325E-03
9	-1.43672E-01	1.64373E-01	4.37266E-01	-5.21008E-04	4.40826E-04	2.19248E-03
10	-3.45936E-03	8.95414E-02	2.01668E-01	6.88971E-03	1.57560E-02	-3.02031E-03
11	-4.20088E-03	-2.84914E-02	-3.67507E-01	9.17282E-03	1.34103E-02	-3.19387E-03
12	-5.38871E-03	-1.89445E-01	-8.12450E-01	1.29780E-02	-5.49304E-04	-1.73658E-03
13	-6.11947E-03	-2.32630E-01	-5.84503E-01	1.54514E-02	-8.87766E-03	-1.02022E-03
14	2.31903E-01	4.27402E-02	-2.92149E-01	1.29260E-02	-4.05973E-03	-5.63551E-03
15	3.29762E-01	5.73246E-01	-2.80334E-01	7.66933E-03	-5.92272E-04	-1.04638E-02
16	3.24395E-01	6.59810E-01	-2.74808E-01	5.34804E-03	-4.53806E-04	-1.20455E-02
17	3.58758E-01	5.60277E-01	-2.31854E-01	-3.56472E-03	-7.67647E-03	-1.53515E-02
18	3.97078E-01	3.09013E-02	-3.49026E-02	1.59458E-02	6.86445E-03	-4.36007E-03
19	3.45398E-01	1.16847E-01	-1.04527E-01	1.90580E-02	9.39603E-03	-2.34880E-03
20	2.28250E-01	3.30655E-01	-2.70708E-01	2.27509E-02	1.19119E-02	-1.41033E-04
21	1.47039E-01	5.93195E-01	-4.96696E-01	2.96583E-02	2.60119E-03	-7.11276E-04
22	1.46303E-01	5.72395E-01	-5.44748E-01	2.98370E-02	1.28731E-03	-2.25197E-03
23	2.76101E-01	5.73088E-01	9.85847E-01	3.17891E-02	1.28731E-03	-2.79868E-03
24	1.45116E-01	5.01553E-01	-5.51276E-01	2.90780E-02	-5.15022E-04	-4.31241E-03
25	1.42918E-01	4.21253E-01	-5.23233E-01	2.76728E-02	-3.44516E-03	-7.63400E-03
26	1.40658E-01	2.99716E-01	-4.58463E-01	2.62675E-02	-5.97865E-03	-1.05083E-02
27	1.39437E-01	6.39930E-02	-3.19673E-01	2.55085E-02	-7.00537E-03	-1.16941E-02
28	7.66210E-01	6.40304E-02	1.00000E+00	2.74886E-02	-7.00537E-03	-1.32113E-02
29	1.37648E-01	-1.86200E-01	-1.63312E-01	2.37983E-02	-7.21626E-03	-1.17457E-02
30	1.34471E-01	-3.32462E-01	-7.18461E-02	2.07609E-02	-5.88155E-03	-1.08565E-02
31	1.40872E-01	-3.56932E-01	-2.86465E-02	1.75938E-02	2.35237E-04	-7.67412E-03
32	7.54368E-02	-1.26833E-01	-7.88679E-02	1.09959E-02	2.76031E-03	-8.83320E-04
33	0.	0.	0.	0.	0.	0.
34	0.	0.	0.	0.	0.	0.
35	0.	0.	0.	0.	0.	0.
36	0.	0.	0.	0.	0.	0.
37	0.	0.	0.	0.	0.	0.
38	0.	0.	0.	0.	0.	0.
39	0.	0.	0.	0.	0.	0.

-2/9-

EIGEN SOLUTION TIME LOG

EIGEN SOLUTION = .93
PRINTING = .32

CASE 1

DIRECTION FACTORS

X = 1.0000 Y = .6667 Z = 1.0000

INDICATOR FOR DISPLACEMENT OR ACCELERATION SPECTRUM = 1

EQ.0 DISPLACEMENT

EQ.1 ACCELERATION IN IN./SEC.2

EQ.2 ACCELERATION IN GS

1 SPECTRA ARE ENTERED FOR CASE 1, KIND= 2

CLUSTER FACTOR, CF = .00001

MODEL PARTICIPATION FACTORS

MODE	X-DIRECTION	Y-DIRECTION	Z-DIRECTION
1	.1599E+00	-.2835E+01	.2883E+00
2	.3316E+01	.2289E+00	.1292E+01
3	.1036E+01	-.2527E+00	-.1194E+01
4	.2459E+00	-.6920E+00	-.7006E-01
5	-.2383E+01	.1252E+01	-.8249E+00
6	-.1575E-01	.3511E+01	.4078E-02
7	-.2655E+01	-.7044E+00	-.3106E+01
8	.1158E+01	.5126E+00	-.2393E+01
9	-.2599E+00	.1438E+01	.6806E+00
10	-.1652E+01	.1100E+01	.2269E+01
11	.1361E+01	.1374E+01	-.1822E+01

SPECTRUM TABLE (ORE SPECTRUM X=Z, Y=2/3*X

NUMBER OF POINTS = 13
SCALE FACTOR = .38640E+03

INPUT POINT	PERIOD	SPECTRUM VALUE
1	0.	.9600E-01
2	.2500E-01	.9600E-01
3	.8500E-01	.1200E+00
4	.1400E+00	.3000E+00
5	.1550E+00	.5000E+00
6	.1550E+00	.3100E+01
7	.1900E+00	.1100E+01
8	.1900E+00	.4800E+00
9	.2000E+00	.5000E+00
10	.2500E+00	.1200E+00
11	.3300E+00	.7200E-01
12	.6000E+00	.2400E-01
13	.1000E+01	.1200E-01

CLUSTERING, +1 MEANS MODE 1 CLOSE TO I+1. -1, NOT.
-1, -1, -1, -1, -1, -1, -1, -1, -1, 0.

NUDE DISPLACEMENTS / ROTATIONS

NUDE MODE X= Y= Z=

NUMBER NUMBER TRANSLATION TRANSLATION TRANSLATION

X=

Y=

Z=

ROTATION

ROTATION

ROTATION

1 TOTAL.. 0. 0. 0. 0. 0. 0.

2 TOTAL.. 2.21050E-04 1.70586E-04 8.69034E-04 5.26798E-06 8.20246E-05 1.62174E-05

3 TOTAL.. 3.01482E-04 3.16029E-04 1.65039E-03 4.02355E-06 2.34023E-04 4.28988E-05

4 TOTAL.. 3.04674E-04 4.50415E-04 2.37555E-03 4.79588E-06 2.45988E-04 4.48521E-05

5 TOTAL.. 1.71982E-02 2.27511E-03 1.45882E-02 1.83584E-05 1.05256E-03 1.08936E-04

6 TOTAL.. 7.62039E-02 5.20205E-04 1.46217E-02 5.63405E-05 1.09853E-03 1.38278E-04

7 TOTAL.. 9.76006E-02 3.42656E-06 3.40378E-02 2.04845E-04 7.64833E-04 1.03316E-04

8 TOTAL.. 8.93296E-02 9.11604E-03 4.98765E-02 3.75297E-04 2.91741E-04 1.95557E-04

9 TOTAL.. 8.21535E-02 3.04978E-02 4.98977E-02 4.07519E-04 2.36141E-04 1.90765E-04

10 TOTAL.. 8.12776E-02 4.31106E-02 4.65745E-02 4.14824E-04 6.51676E-05 1.66397E-04

11 TOTAL.. 8.12862E-02 4.86624E-02 4.48091E-02 4.14484E-04 1.03655E-04 1.51517E-04

12 TOTAL.. 8.12900E-02 5.63395E-02 3.93405E-02 4.14339E-04 1.62877E-04 1.15364E-04

13 TOTAL.. 8.12853E-02 6.00532E-02 3.39890E-02 4.14528E-04 1.99470E-04 9.08410E-05

14 TOTAL.. 7.31445E-02 5.16441E-02 2.80479E-02 4.42117E-04 5.08418E-04 4.3959E-05

15 TOTAL.. 4.87774E-02 3.14926E-02 2.80468E-02 4.28556E-04 5.40307E-04 6.61742E-05

16 TOTAL.. 4.05812E-02 2.51241E-02 2.80442E-02 4.20416E-04 5.42365E-04 7.54367E-05

17 TOTAL.. 3.25487E-02 1.91967E-02 2.48456E-02 3.55812E-04 5.18010E-04 8.08394E-05

18 TOTAL.. 6.50794E-03 2.98912E-05 5.01935E-05 2.64274E-04 4.32654E-04 9.95245E-05

19 TOTAL.. 4.45592E-03 1.52873E-03 1.97455E-03 2.53918E-04 4.19270E-04 9.93199E-05

20 TOTAL..	1.45711E-03	4.30115E-03	5.59378E-03	2.34614E-04	3.93229E-04	9.81462E-05
TOTAL..	1.78068E-03	5.33602E-03	7.77122E-03	1.46242E-04	3.85286E-05	4.94522E-05
22 TOTAL..	1.78118E-03	4.48439E-03	7.06520E-03	1.39723E-04	4.39334E-05	4.93289E-05
23 TOTAL..	2.87394E-03	4.48458E-03	9.58944E-03	1.40334E-04	4.39334E-05	4.94977E-05
24 TOTAL..	1.78080E-03	3.69432E-03	6.26105E-03	1.32959E-04	4.77723E-05	4.87179E-05
25 TOTAL..	1.78012E-03	3.24128E-03	5.68741E-03	1.20501E-04	5.29935E-05	4.73357E-05
26 TOTAL..	1.77931E-03	2.80563E-03	5.02989E-03	1.08175E-04	5.72610E-05	4.61427E-05
27 TOTAL..	1.77888E-03	2.19753E-03	3.90974E-03	1.01587E-04	5.55619E-05	4.54707E-05
28 TOTAL..	2.73128E-03	2.19791E-03	5.93835E-03	1.02154E-04	5.85619E-05	4.56146E-05
29 TOTAL..	1.77757E-03	1.83849E-03	2.80607E-03	9.47955E-05	5.43187E-05	4.44631E-05
30 TOTAL..	1.77525E-03	1.78654E-03	2.17710E-03	8.29114E-05	5.58615E-05	4.21039E-05
31 TOTAL..	1.51834E-03	1.51347E-03	1.54346E-03	6.91974E-05	4.99568E-05	3.89650E-05
32 TOTAL..	5.03316E-04	4.03796E-04	5.50544E-04	4.26654E-05	4.01221E-05	2.63656E-05
33 TOTAL..	0.	0.	0.	0.	0.	0.
34 TOTAL..	0.	0.	0.	0.	0.	0.
35 TOTAL..	0.	0.	0.	0.	0.	0.
36 TOTAL..	0.	0.	0.	0.	0.	0.
37 TOTAL..	0.	0.	0.	0.	0.	0.
38 TOTAL..	0.	0.	0.	0.	0.	0.
39 TOTAL..	0.	0.	0.	0.	0.	0.

RESPONSE SPECTRUM STRESS COMPONENTS (KIND = 2)

FOR EACH ELEMENT, THE FOLLOWING INFORMATION IS PRINTED:

1. FOR EACH EARTH QUAKE DIRECTION; THE NUMBER OF THE MODE WITH THE LARGEST STRESS.
 2. THE VALUE OF THAT STRESS.
 3. IF REQUESTED; THE MODE BY MODE STRESSES FOR EACH EARTH QUAKE DIRECTION.
 4. THE RESULTANT FOR EACH EARTH QUAKE DIRECTION.
 5. THE GRAND TOTAL OF THE THREE EARTH QUAKE DIRECTIONS.
- (NOTE: THE X, Y, OR Z REFERS TO THE EARTH QUAKE DIRECTION.)

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (1)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	2	2	2	2	2	2	2	2	2	2	2
X MAXIMUM	4.242E+02	2.357E+01	3.828E+02	-9.123E+02	4.608E+04	2.020E+03	4.242E+02	2.357E+01	3.828E+02	-9.123E+02	4.076E+04	1.569E+03
Y	2	1	8	1	1	1	2	2	1	8	1	1
Y MAXIMUM	1.952E+01	-1.146E+02	-2.463E+01	3.793E+03	-2.301E+03	-9.295E+03	1.952E+01	-1.146E+02	-2.463E+01	3.793E+03	-1.919E+03	-7.100E+03
Z	2	1	8	1	1	2	2	2	1	8	1	2
Z MAXIMUM	1.652E+02	-1.748E+01	-1.724E+02	5.786E+02	-1.873E+04	-1.418E+03	1.652E+02	-1.748E+01	-1.724E+02	5.786E+02	-1.587E+04	-1.083E+03
GRAND TOTAL	4.736E+02	1.209E+02	4.636E+02	3.979E+03	5.839E+04	9.741E+03	4.736E+02	1.209E+02	4.636E+02	3.979E+03	4.411E+04	7.434E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (2)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	2	2	2	2	2	2	2	2	2	2	2	2
X MAXIMUM	4.245E+02	3.824E+02	-2.357E+01	-9.110E+02	1.570E+03	4.076E+04	4.656E+02	3.311E+02	-2.357E+01	-7.280E+02	1.607E+03	3.989E+04
Y	2	8	1	1	1	1	2	8	1	1	1	1
Y MAXIMUM	1.953E+01	-2.464E+01	1.146E+02	3.788E+03	-7.103E+03	1.919E+03	2.143E+01	-2.619E+01	1.146E+02	2.463E+03	-7.215E+03	1.872E+03
Z	2	8	1	1	1	2	2	8	1	1	1	2
Z MAXIMUM	1.653E+02	-1.725E+02	1.748E+01	5.777E+02	-1.083E+03	1.587E+04	1.813E+02	-1.834E+02	1.748E+01	4.519E+02	-1.100E+03	1.554E+04
GRAND TOTAL	4.738E+02	4.633E+02	1.209E+02	3.972E+03	7.437E+03	4.411E+04	5.109E+02	4.221E+02	1.209E+02	3.114E+03	7.552E+03	4.315E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (2)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	2	2	2	2	2
X MAXIMUM	5.006E+02	2.755E+02	-2.357E+01	-5.419E+02	1.623E+03	3.916E+04
Y	2	8	1	1	1	1
Y MAXIMUM	2.303E+01	-2.740E+01	1.146E+02	2.130E+03	-7.231E+03	1.830E+03
Z	2	8	1	1	1	2
Z MAXIMUM	1.950E+02	-1.919E+02	1.748E+01	3.250E+02	-1.103E+03	1.525E+04
GRAND TOTAL	5.434E+02	3.793E+02	1.209E+02	2.251E+03	7.567E+03	4.232E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (3)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	2	2	2	2	2	2	2	2	2	2	2
X MAXIMUM	5.004E+02	2.357E+01	2.759E+02	-5.432E+02	-3.916E+04	1.623E+03	5.004E+02	2.357E+01	2.759E+02	-5.432E+02	-3.834E+04	1.553E+03
Y	2	1	8	1	1	1	2	2	1	8	1	1
Y MAXIMUM	2.302E+01	-1.146E+02	-2.740E+01	2.136E+03	-1.830E+03	-7.229E+03	2.302E+01	-1.146E+02	-2.740E+01	2.136E+03	-1.780E+03	-6.888E+03
Z	2	1	8	1	1	2	2	2	1	8	1	2
Z MAXIMUM	1.949E+02	-1.748E+01	-1.918E+02	3.258E+02	-1.525E+04	-1.103E+03	1.949E+02	-1.748E+01	-1.918E+02	3.258E+02	-1.493E+04	-1.051E+03
GRAND TOTAL	5.432E+02	1.209E+02	3.796E+02	2.257E+03	4.232E+04	7.565E+03	5.432E+02	1.209E+02	3.796E+02	2.257E+03	4.141E+04	7.208E+03

ELE TYPE (3/D P I P E) / / / ELEMENT NUMBER (4)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	2	2	2	2	2	2	2	2	2	2	2	2

Y MAXIMUM 2.300E+01 2.502E+01-1.139E+02 2.136E+03 6.888E+03-1.780E+03 2.424E+01-2.510E+01-1.139E+02 5.681E+03 1.669E+03-1.437E+03
 X MAXIMUM 1.947E+02 1.752E+02-1.737E+01 3.258E+02 1.051E+03-1.493E+04 1.697E+02-2.124E+02-1.737E+01 8.665E+02 2.541E+03-1.216E+04
 Y MAXIMUM 2.502E+01 2.300E+01-1.139E+02 4.497E+03-4.527E+03-1.098E+03
 Z MAXIMUM 1.752E+02-1.947E+02-1.737E+01 6.859E+02-6.905E+02-8.622E+03
 GRAND TOTAL 5.429E+02 3.636E+02 1.199E+02 2.257E+03 7.208E+03 4.141E+04 2.713E+02 5.944E+02 1.199E+02 5.449E+03 1.741E+04 3.377E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (4)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	2	2	2	2	2
X MAXIMUM	-2.715E+02	-4.998E+02	2.338E+01	-1.062E+03	1.034E+03	-2.214E+04
Y	8	2	1	1	1	1
Y MAXIMUM	2.502E+01	-2.300E+01	-1.139E+02	4.497E+03	-4.527E+03	-1.098E+03
Z	8	2	1	1	1	2
Z MAXIMUM	1.752E+02	-1.947E+02	-1.737E+01	6.859E+02	-6.905E+02	-8.622E+03
GRAND TOTAL	3.636E+02	5.429E+02	1.199E+02	4.710E+03	4.737E+03	2.406E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (5)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	2	2	2	2	2	2	2	2	2	2	2
X MAXIMUM	-2.715E+02	2.338E+01	4.998E+02	-1.062E+03	-2.214E+04	-1.034E+03	-2.715E+02	2.338E+01	4.998E+02	-1.062E+03	4.850E+03	-2.297E+03
Y	8	1	2	1	1	1	8	1	2	1	3	1
Y MAXIMUM	2.502E+01	-1.139E+02	2.300E+01	4.497E+03	-1.098E+03	4.527E+03	2.502E+01	-1.139E+02	2.300E+01	4.497E+03	3.417E+02	1.068E+04
Z	8	1	2	1	1	2	8	1	2	1	3	1
Z MAXIMUM	1.752E+02	-1.737E+01	1.947E+02	6.859E+02	-8.622E+03	6.905E+02	1.752E+02	-1.737E+01	1.947E+02	6.859E+02	2.827E+03	1.628E+03
GRAND TOTAL	3.636E+02	1.199E+02	5.429E+02	4.710E+03	2.406E+04	4.737E+03	3.636E+02	1.199E+02	5.429E+02	4.710E+03	6.698E+03	1.119E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (6)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	2	2	2	2	2	2	2	2	2	2	2	2
X MAXIMUM	-2.715E+02	4.998E+02	-2.338E+01	-1.062E+03	-2.297E+03	-4.850E+03	1.615E+02	5.454E+02	-2.338E+01	-2.519E+03	-1.220E+03	1.394E+04
Y	8	2	1	1	1	1	8	2	1	1	1	2
Y MAXIMUM	2.502E+01	2.300E+01	1.139E+02	4.497E+03	1.068E+04	-3.417E+02	2.424E+01	2.510E+01	1.139E+02	1.143E+04	6.060E+03	-6.415E+02
Z	8	2	1	1	1	3	8	2	1	1	1	2
Z MAXIMUM	1.752E+02	1.947E+02	1.737E+01	6.859E+02	1.628E+03	-2.827E+03	1.697E+02	2.124E+02	1.737E+01	1.743E+03	9.242E+02	-5.430E+03
GRAND TOTAL	3.636E+02	5.429E+02	1.199E+02	4.710E+03	1.119E+04	6.698E+03	2.713E+02	5.944E+02	1.199E+02	1.197E+04	6.398E+03	1.550E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (6)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	2	2	2	2	2
X MAXIMUM	4.998E+02	2.715E+02	-2.338E+01	-2.788E+03	5.708E+02	-2.105E+04
Y	2	8	1	1	1	2
Y MAXIMUM	2.300E+01	-2.502E+01	1.139E+02	1.307E+04	-2.106E+03	-9.685E+02
Z	2	8	1	1	1	2
Z MAXIMUM	1.947E+02	-1.752E+02	1.737E+01	1.993E+03	-3.212E+02	-8.197E+03
GRAND TOTAL	5.429E+02	3.636E+02	1.199E+02	1.371E+04	2.260E+03	2.276E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (7)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	2	2	2	2	2	2	2	2	2	2	2	2
X MAXIMUM	2.388E+02	1.809E+02	-3.921E+01	-2.788E+03	5.708E+02	-2.105E+04	2.988E+02	-6.170E+01	-3.921E+01	-1.809E+03	1.793E+03	-2.227E+04
Y	3	8	1	1	1	1	8	3	1	1	1	2
Y MAXIMUM	1.472E+01	-1.344E+01	1.355E+02	1.307E+04	-2.106E+03	-9.685E+02	1.396E+01	-1.003E+01	1.355E+02	8.584E+03	-8.716E+03	-1.025E+03
Z	3	8	1	1	1	2	8	3	1	1	1	2
Z MAXIMUM	1.218E+02	-9.413E+01	2.067E+01	1.993E+03	-3.212E+02	-8.197E+03	1.156E+02	-8.300E+01	2.067E+01	1.309E+03	-1.329E+03	-8.671E+03
GRAND TOTAL	3.029E+02	2.255E+02	1.478E+02	1.371E+04	2.260E+03	2.276E+04	3.575E+02	1.214E+02	1.478E+02	9.078E+03	9.072E+03	2.405E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (7)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	2	2	2	4	2
X MAXIMUM	1.809E+02	-2.388E+02	-3.921E+01	3.451E+02	1.964E+03	-1.983E+04
Y	8	3	1	1	1	2
Y MAXIMUM	-1.344E+01	-1.472E+01	1.355E+02	7.401E+02	-1.022E+04	-9.125E+02
Z	8	3	1	3	1	2
Z MAXIMUM	-9.413E+01	-1.218E+02	2.067E+01	3.124E+02	-1.559E+03	-7.723E+03
GRAND TOTAL	2.255E+02	3.029E+02	1.478E+02	1.253E+03	1.065E+04	2.139E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (8)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	2	2	2	4	2	2	2	2	4	2	5
X MAXIMUM	1.809E+02	3.921E+01	-2.388E+02	3.451E+02	1.963E+04	1.964E+03	1.809E+02	3.921E+01	-2.388E+02	3.451E+02	6.935E+03	5.374E+02
Y	8	1	3	1	1	2	8	1	1	3	1	1
Y MAXIMUM	-1.344E+01	-1.355E+02	-1.472E+01	7.401E+02	9.125E+02	-1.022E+04	-1.344E+01	-1.355E+02	-1.472E+01	7.401E+02	-8.486E+02	-2.902E+03
Z	8	1	3	3	3	2	8	1	3	3	3	1
Z MAXIMUM	-9.413E+01	-2.067E+01	-1.218E+02	3.124E+02	-7.723E+03	-1.559E+03	-9.413E+01	-2.067E+01	-1.218E+02	3.124E+02	-7.022E+03	-4.426E+02
GRAND TOTAL	2.255E+02	1.478E+02	3.029E+02	1.253E+03	2.139E+04	1.065E+04	2.255E+02	1.478E+02	3.029E+02	1.253E+03	1.158E+04	3.205E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (9)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	2	2	2	2	4	5	2	2	3	2	5	3
X MAXIMUM	1.809E+02	2.388E+02	3.921E+01	3.451E+02	-5.374E+02	6.935E+03	2.968E+02	6.170E+01	3.921E+01	-2.338E+02	8.693E+02	-6.544E+03
Y	8	3	1	1	1	1	8	3	1	1	6	3
Y MAXIMUM	-1.344E+01	1.472E+01	-1.355E+02	7.401E+02	2.902E+03	-8.486E+02	-1.396E+01	1.003E+01	-1.355E+02	1.741E+03	-9.631E+02	-1.064E+03
Z	8	3	1	3	3	1	2	3	1	3	7	3
Z MAXIMUM	-9.413E+01	1.218E+02	-2.067E+01	3.124E+02	4.426E+02	-7.022E+03	1.156E+02	8.300E+01	-2.067E+01	3.110E+02	4.295E+02	-8.803E+03
GRAND TOTAL	2.255E+02	3.029E+02	1.478E+02	1.253E+03	3.205E+03	1.158E+04	3.575E+02	1.214E+02	1.478E+02	1.467E+03	2.133E+03	1.210E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (9)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	2	2	2	2	3
X MAXIMUM	2.388E+02	-1.809E+02	3.921E+01	9.768E+02	1.076E+03	-7.053E+03
Y	3	8	1	1	6	1
Y MAXIMUM	1.472E+01	1.344E+01	-1.355E+02	-1.152E+03	-3.586E+03	-1.147E+03
Z	3	8	1	1	7	1
Z MAXIMUM	1.218E+02	9.413E+01	-2.067E+01	4.672E+02	-5.470E+02	-9.486E+03
GRAND TOTAL	3.029E+02	2.255E+02	1.478E+02	2.136E+03	4.159E+03	1.339E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (10)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	2	2	2	2	3	2	2	2	2	2	2
X MAXIMUM	1.017E+02	2.366E+01	1.041E+02	9.768E+02	-7.053E+03	-1.076E+03	1.017E+02	2.366E+01	1.041E+02	9.768E+02	9.468E+03	-1.928E+03
Y	6	1	3	3	6	3	6	1	3	3	6	1
Y MAXIMUM	-1.723E+01	-6.770E+01	9.003E+00	-1.152E+03	-1.147E+03	3.586E+03	-1.723E+01	-6.770E+01	9.003E+00	-1.152E+03	-8.224E+02	6.024E+03
Z	3	1	3	3	7	3	3	1	3	3	7	1
Z MAXIMUM	6.311E+01	-1.033E+01	7.449E+01	4.672E+02	-9.486E+03	5.470E+02	6.311E+01	-1.033E+01	7.449E+01	4.672E+02	-6.805E+03	9.188E+02
GRAND TOTAL	1.512E+02	7.564E+01	1.534E+02	2.136E+03	1.339E+04	4.159E+03	1.512E+02	7.564E+01	1.534E+02	2.136E+03	1.342E+04	6.554E+03

E T TYPE (3/D P I P E) / / / ELEMENT NUMBER (11)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	5	2	2	3	2	2	5	2	2	3	2	2

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (12)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		5	3	2	2	2	5	3	3	2	2	2
X MAXIMUM	6.498E+01	7.974E+00	8.193E+01	9.768E+02	1.325E+04	2.778E+03	6.498E+01	7.974E+00	8.193E+01	9.768E+02	1.424E+04	2.907E+03
Y		6	1	5	6	1	6	1	6	6	6	1
Y MAXIMUM	3.875E+01	2.535E+01	1.526E+01	-1.152E+03	1.015E+03	7.544E+03	-3.875E+01	2.535E+01	1.526E+01	-1.152E+03	9.989E+02	6.556E+03
Z		7	3	3	7	2	7	3	3	7	2	2
Z MAXIMUM	-6.398E+01	1.073E+01	1.102E+02	4.672E+02	5.159E+03	1.151E+03	-6.398E+01	1.073E+01	1.102E+02	4.672E+02	5.544E+03	-1.132E+03
GRAND TOTAL	1.311E+02	3.561E+01	1.525E+02	2.136E+03	1.445E+04	8.283E+03	1.311E+02	3.561E+01	1.525E+02	2.136E+03	1.616E+04	7.516E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (13)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	2	3	5	2	2	2	5	2	5	2	2	2
X MAXIMUM	-1.525E+02	-7.252E+01	-2.488E+01	9.768E+02	2.907E+03	1.424E+04	1.025E+02	1.193E+02	-2.488E+01	2.708E+03	1.274E+03	1.306E+04
Y	6	6	1	6	1	6	6	6	1	1	1	6
Y MAXIMUM	-5.271E+01	-2.013E+01	6.895E+01	-1.152E+03	-6.556E+03	9.989E+02	-5.575E+01	1.880E+01	6.895E+01	-4.172E+03	-3.651E+03	1.063E+03
Z	7	3	7	7	2	2	2	2	7	3	3	2
Z MAXIMUM	-8.279E+01	-4.755E+01	2.157E+01	4.672E+02	1.132E+03	5.544E+03	-1.013E+02	4.647E+01	2.157E+01	1.055E+03	6.081E+02	5.085E+03
GRAND TOTAL	2.330E+02	1.746E+02	9.678E+01	2.136E+03	7.516E+03	1.616E+04	2.499E+02	1.494E+02	9.678E+01	5.471E+03	4.242E+03	1.594E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (13)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	3	2	5	2	2	2
X MAXIMUM	-7.252E+01	1.525E+02	-2.488E+01	2.778E+03	-1.106E+03	1.069E+04
Y	6	6	1	1	1	1
Y MAXIMUM	-2.613E+01	5.271E+01	6.895E+01	-5.108E+03	1.392E+03	8.148E+02
Z	3	7	7	2	2	3
Z MAXIMUM	-9.755E+01	8.279E+01	2.157E+01	1.082E+03	-4.306E+02	4.801E+03
GRAND TOTAL	1.746E+02	2.330E+02	9.678E+01	6.358E+03	2.093E+03	1.304E+04

ELEMENT TYPE (3/0 PIPE) / / / ELEMENT NUMBER (14)

	PK(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PK(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		3	5	2	2	2		3	5	2	2	2
X MAXIMUM	=7.252E+01	-2.488E+01	-1.525E+02	2.778E+03	1.069E+04	1.106E+03	-7.252E+01	-2.488E+01	-1.525E+02	2.778E+03	3.592E+03	1.391E+03
Y		6	1	6	1	1		6	1	6	1	1
Y MAXIMUM	=2.613E+01	6.895E+01	-5.271E+01	-5.108E+03	8.148E+02	-1.392E+03	-2.613E+01	6.895E+01	-5.271E+01	-5.108E+03	-2.014E+03	-4.603E+03
Z		3	7	7	2	3		3	7	7	2	3
Z MAXIMUM	=9.755E+01	2.157E+01	-8.279E+01	1.082E+03	4.801E+03	4.306E+02	-9.755E+01	2.157E+01	-8.279E+01	1.082E+03	-3.390E+03	-9.900E+02
GRAND TOTAL	1.746E+02	9.678E+01	2.330E+02	6.358E+03	1.304E+04	2.093E+03	1.746E+02	9.678E+01	2.330E+02	6.358E+03	8.264E+03	5.783E+03

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (15)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	5	10	2	2	5	2	5	10	2	2	5	2
X MAXIMUM	1.259E+02	-2.319E+01	-2.443E+02	2.778E+03	3.592E+03	1.341E+03	1.259E+02	-2.319E+01	-2.443E+02	2.778E+03	4.252E+03	1.687E+03
Y	6	1	5	1	6	1	6	1	5	1	6	1
Y MAXIMUM	-5.320E+01	1.244E+02	1.515E+01	-5.108E+03	-2.014E+03	-4.603E+03	-5.320E+01	1.244E+02	1.515E+01	-5.108E+03	-2.190E+03	-6.500E+03
Z	7	10	3	2	7	7	7	10	3	2	7	7
Z MAXIMUM	-1.189E+02	-3.141E+01	-9.723E+01	1.082E+03	-3.390E+03	-4.900E+02	-1.189E+02	-3.141E+01	-9.723E+01	1.082E+03	-3.389E+03	-1.057E+03

GRAND TOTAL 2.640E+02 1.411E+02 2.956E+02 6.358E+03 8.264E+03 5.783E+03 2.640E+02 1.411E+02 2.956E+02 6.358E+03 7.145E+03 7.408E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (16)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	5	2	2	2	2	2	5	5	2	2	2	5
X MAXIMUM	1.259E+02	-2.329E+02	7.601E+01	2.778E+03	1.672E+03	-4.410E+03	1.344E+02	-2.411E+02	7.601E+01	3.330E+03	1.089E+03	-4.587E+03
Y	6	1	1	1	1	1	6	6	1	1	1	6
Y MAXIMUM	-5.320E+01	-3.164E+01	-1.203E+02	-5.108E+03	-6.485E+03	1.902E+03	-5.343E+01	-3.563E+01	-1.203E+02	-7.403E+03	-4.993E+03	1.906E+03
Z	7	3	2	2	2	1	7	7	2	2	3	7
Z MAXIMUM	-1.189E+02	-9.509E+01	2.960E+01	1.082E+03	-9.891E+02	3.542E+03	-1.101E+02	-9.390E+01	2.960E+01	1.297E+03	-1.067E+03	3.358E+03
GRAND TOTAL	2.640E+02	2.860E+02	1.596E+02	6.358E+03	7.288E+03	7.288E+03	2.708E+02	2.795E+02	1.596E+02	8.426E+03	5.925E+03	7.420E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (16)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	5	2	2	2	2	3
X MAXIMUM	1.221E+02	-2.122E+02	7.601E+01	3.616E+03	-7.543E+02	-4.330E+03
Y	6	1	1	1	1	6
Y MAXIMUM	-4.544E+01	-3.414E+01	-1.203E+02	-8.948E+03	-2.734E+03	1.759E+03
Z	3	7	2	2	3	7
Z MAXIMUM	-1.162E+02	8.371E+01	2.960E+01	1.408E+03	-1.015E+03	2.819E+03
GRAND TOTAL	2.800E+02	2.703E+02	1.596E+02	9.929E+03	3.928E+03	7.606E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (17)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	5	2	2	2	2	5	5	5	2	2	2	2
X MAXIMUM	1.222E+02	-3.947E+01	-2.219E+02	3.615E+03	4.202E+03	1.122E+03	1.222E+02	-3.947E+01	-2.219E+02	3.615E+03	-1.999E+04	2.637E+03
Y	6	1	6	1	1	6	6	6	1	6	1	1
Y MAXIMUM	-4.546E+01	1.243E+02	2.895E+01	-8.947E+03	-2.042E+03	-2.935E+03	-4.546E+01	1.243E+02	2.895E+01	-8.947E+03	-1.930E+03	-1.210E+04
Z	3	11	2	2	7	3	3	3	11	2	2	11
Z MAXIMUM	-1.162E+02	-2.769E+01	-8.644E+01	1.408E+03	-2.719E+03	-9.945E+02	-1.162E+02	-2.769E+01	-8.644E+01	1.408E+03	-7.786E+03	1.976E+03
GRAND TOTAL	2.800E+02	1.465E+02	2.776E+02	9.928E+03	7.459E+03	4.205E+03	2.800E+02	1.465E+02	2.776E+02	9.928E+03	2.235E+04	1.333E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (18)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	5	10	2	2	2	2	2	5	10	2	2
X MAXIMUM	-3.111E+02	7.659E+01	6.189E+01	3.470E+03	-2.002E+04	2.638E+03	-3.111E+02	7.659E+01	6.189E+01	3.470E+03	-2.034E+04	2.869E+03
Y	6	6	11	1	1	1	6	6	6	11	1	1
Y MAXIMUM	-4.354E+01	1.568E+02	-2.988E+01	-8.934E+03	-1.864E+03	-1.212E+04	-4.354E+01	1.568E+02	-2.988E+01	-8.934E+03	-1.874E+03	-1.189E+04
Z	7	11	10	1	2	11	7	7	11	10	1	1
Z MAXIMUM	1.317E+02	6.932E+01	8.487E+01	-1.363E+03	-7.796E+03	1.976E+03	1.317E+02	6.932E+01	8.487E+01	-1.363E+03	-7.923E+03	-1.814E+03
GRAND TOTAL	4.187E+02	2.157E+02	2.015E+02	9.855E+03	2.237E+04	1.335E+04	4.187E+02	2.157E+02	2.015E+02	9.855E+03	2.252E+04	1.286E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (19)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	5	10	2	2	2	2	2	5	10	2	2
X MAXIMUM	-3.108E+02	7.785E+01	6.197E+01	3.705E+03	-2.030E+04	2.868E+03	-3.108E+02	7.785E+01	6.197E+01	3.705E+03	-2.091E+04	3.351E+03
Y	6	6	11	1	1	1	6	6	6	11	1	1
Y MAXIMUM	-4.525E+01	1.563E+02	-2.990E+01	-8.943E+03	-1.979E+03	-1.187E+04	-4.525E+01	1.563E+02	-2.990E+01	-8.943E+03	-1.999E+03	-1.144E+04
Z	7	11	10	1	2	11	7	7	11	10	2	1
Z MAXIMUM	1.318E+02	6.927E+01	8.497E+01	1.443E+03	-7.907E+03	-1.810E+03	1.318E+02	6.927E+01	8.497E+01	1.443E+03	-8.144E+03	-1.746E+03
TOTAL	4.184E+02	2.163E+02	2.016E+02	9.963E+03	2.249E+04	1.283E+04	4.184E+02	2.163E+02	2.016E+02	9.963E+03	2.299E+04	1.233E+04

NT TYPE (3/D P I P E) / / / ELEMENT NUMBER (20)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
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Z MAXIMUM 1.583E+02 1.606E+01-1.010E+02-2.212E+03-4.674E+03-1.542E+03 1.583E+02 1.606E+01-1.010E+02-2.212E+03-5.983E+03-1.377E+03
 GRAND TOTAL 4.081E+02 7.986E+01 2.837E+02 1.519E+04 1.591E+04 8.755E+03 4.081E+02 7.986E+01 2.837E+02 1.519E+04 1.460E+04 9.243E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (25)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		2	2	2	2	2	5	2	2	2	5	5
X MAXIMUM	-2.474E+02	2.302E+01	2.219E+02	2.780E+03	-8.537E+03	-2.940E+03	-2.474E+02	2.302E+01	2.219E+02	2.780E+03	-6.803E+03	-3.055E+03
Y		5	1	7	1	5	6	5	1	7	1	5
Y MAXIMUM	4.377E+01	-5.266E+01	-1.410E+01	-1.450E+04	-2.264E+03	-7.762E+03	4.377E+01	-5.266E+01	-1.410E+01	-1.450E+04	-2.383E+03	-8.066E+03
Z		7	11	7	1	7	11	7	11	7	1	10
Z MAXIMUM	1.680E+02	-1.756E+01	-9.322E+01	-2.212E+03	-5.983E+03	-1.377E+03	1.680E+02	-1.756E+01	-9.322E+01	-2.212E+03	-7.191E+03	-1.220E+03
GRAND TOTAL	4.182E+02	7.585E+01	2.776E+02	1.519E+04	1.460E+04	9.243E+03	4.182E+02	7.585E+01	2.776E+02	1.519E+04	1.397E+04	9.623E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (26)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		2	2	2	2	5	5	2	2	2	7	5
X MAXIMUM	-2.474E+02	2.302E+01	2.219E+02	2.780E+03	-6.803E+03	-3.055E+03	-2.474E+02	2.302E+01	2.219E+02	2.780E+03	-7.822E+03	-3.240E+03
Y		5	1	7	1	5	6	5	1	7	1	5
Y MAXIMUM	4.377E+01	-5.266E+01	-1.410E+01	-1.450E+04	-2.383E+03	-8.066E+03	4.377E+01	-5.266E+01	-1.410E+01	-1.450E+04	-2.576E+03	-8.559E+03
Z		7	11	7	1	7	10	7	11	7	1	7
Z MAXIMUM	1.680E+02	-1.756E+01	-9.322E+01	-2.212E+03	-7.191E+03	-1.220E+03	1.680E+02	-1.756E+01	-9.322E+01	-2.212E+03	-9.149E+03	1.210E+03
GRAND TOTAL	4.182E+02	7.585E+01	2.776E+02	1.519E+04	1.397E+04	9.623E+03	4.182E+02	7.585E+01	2.776E+02	1.519E+04	1.487E+04	1.041E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (27)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		5	10	7	2	7	10	5	10	7	2	2
X MAXIMUM	4.393E+00	2.034E+01	-9.792E+00	1.164E+09	4.794E+02	9.960E+02	4.393E+00	2.034E+01	-9.792E+00	1.164E+09	1.538E+07	-1.222E+09
Y		6	10	11	2	11	10	6	10	11	2	1
Y MAXIMUM	1.360E+01	9.035E+00	4.680E+00	5.457E+11	-2.292E+02	4.423E+02	1.360E+01	9.035E+00	4.680E+00	5.457E+11	7.094E+09	2.794E+09
Z		7	10	7	2	7	10	7	10	7	2	1
Z MAXIMUM	-3.077E+00	2.790E+01	-1.145E+01	4.657E+10	5.607E+02	1.366E+03	-3.077E+00	2.790E+01	-1.145E+01	4.657E+10	5.995E+08	3.492E+10
GRAND TOTAL	1.587E+01	4.419E+01	2.095E+01	1.279E+09	1.026E+03	2.164E+03	1.587E+01	4.419E+01	2.095E+01	1.279E+09	1.652E+07	3.306E+09

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (28)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		7	5	2	2	7	5	7	5	2	7	5
X MAXIMUM	2.498E+02	-4.374E+01	2.391E+02	2.859E+03	-7.822E+03	-3.508E+03	2.498E+02	-4.374E+01	2.391E+02	2.859E+03	-7.128E+03	-2.589E+03
Y		5	6	10	1	5	6	5	6	10	1	5
Y MAXIMUM	6.897E+01	-1.392E+02	-2.747E+01	-1.458E+04	-2.576E+03	-8.501E+03	6.897E+01	-1.392E+02	-2.747E+01	-1.458E+04	-2.038E+03	-5.578E+03
Z		7	7	2	10	7	10	7	7	2	10	5
Z MAXIMUM	2.921E+02	3.533E+01	9.314E+01	-2.377E+03	-9.149E+03	-1.223E+03	2.921E+02	3.533E+01	9.314E+01	-2.377E+03	-8.337E+03	-8.963E+02
GRAND TOTAL	5.681E+02	1.759E+02	3.094E+02	1.561E+04	1.487E+04	1.038E+04	5.681E+02	1.759E+02	3.094E+02	1.561E+04	1.367E+04	8.030E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (29)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		7	5	2	2	7	5	7	5	2	7	5
X MAXIMUM	2.498E+02	-4.374E+01	2.391E+02	2.859E+03	-7.128E+03	-2.589E+03	2.498E+02	-4.374E+01	2.391E+02	2.859E+03	6.995E+03	-2.045E+03
Y		5	6	10	1	5	6	5	6	10	1	5
Y MAXIMUM	6.897E+01	-1.392E+02	-2.747E+01	-1.458E+04	-2.038E+03	-5.578E+03	6.897E+01	-1.392E+02	-2.747E+01	-1.458E+04	-1.719E+03	5.173E+03
Z		7	7	2	10	7	5	7	7	2	10	1
Z MAXIMUM	2.921E+02	3.533E+01	9.314E+01	-2.377E+03	-8.337E+03	-8.963E+02	2.921E+02	3.533E+01	9.314E+01	-2.377E+03	-7.857E+03	7.890E+02
G TOTAL	5.681E+02	1.759E+02	3.094E+02	1.561E+04	1.367E+04	8.030E+03	5.681E+02	1.759E+02	3.094E+02	1.561E+04	1.436E+04	7.192E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (30)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	7	2	5	2	5	2	2	5	5	2	5	2
X MAXIMUM	2.498E+02	-2.391E+02	-4.374E+01	2.859E+03	2.045E+03	6.995E+03	-3.163E+02	-1.441E+02	-4.374E+01	2.648E+03	1.5091	8.326E+03
Y	5	10	6	1	1	5	5	5	6	1	5	5
Y MAXIMUM	6.897E+01	2.747E+01	-1.392E+02	-1.458E+04	-5.173E+03	-1.719E+03	5.355E+01	-5.047E+01	-1.392E+02	-1.552E+04	2.847E+03	-1.442E+03
Z	7	2	7	10	1	7	7	7	7	1	10	7
Z MAXIMUM	2.921E+02	-9.314E+01	3.533E+01	-2.377E+03	-7.890E+02	-7.897E+03	2.540E+02	-1.493E+02	3.533E+01	-2.368E+03	1.243E+03	-7.171E+03
GRAND TOTAL	5.881E+02	3.094E+02	1.759E+02	1.561E+04	7.192E+03	1.436E+04	5.772E+02	2.922E+02	1.759E+02	1.654E+04	3.954E+03	1.439E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (30)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	7	5	2	2	2
X MAXIMUM	-3.404E+02	-2.022E+02	-4.374E+01	2.464E+03	-1.385E+03	8.760E+03
Y	11	5	6	1	1	5
Y MAXIMUM	-4.763E+01	-6.733E+01	-1.392E+02	-1.418E+04	6.120E+03	-1.012E+03
Z	7	7	7	1	10	7
Z MAXIMUM	1.759E+02	-2.364E+02	3.533E+01	-2.163E+03	1.783E+03	-5.764E+03
GRAND TOTAL	5.181E+02	3.874E+02	1.759E+02	1.519E+04	7.012E+03	1.311E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (31)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	5	7	2	2	2	2	5	7	2	2	7
X MAXIMUM	-3.403E+02	-6.087E+01	2.657E+02	2.464E+03	8.760E+03	1.386E+03	-3.403E+02	-6.087E+01	2.657E+02	2.464E+03	8.611E+03	-1.305E+03
Y	11	6	5	1	5	1	11	6	5	1	5	6
Y MAXIMUM	-5.190E+01	-1.963E+02	8.141E+01	-1.418E+04	-1.012E+03	-6.124E+03	-5.190E+01	-1.963E+02	8.141E+01	-1.418E+04	1.577E+03	4.845E+03
Z	7	7	7	1	7	10	7	7	7	1	7	7
Z MAXIMUM	1.769E+02	4.614E+01	3.108E+02	-2.163E+03	-5.764E+03	-1.783E+03	1.769E+02	4.614E+01	3.108E+02	-2.163E+03	4.118E+03	-1.526E+03
GRAND TOTAL	5.259E+02	2.338E+02	4.972E+02	1.518E+04	1.311E+04	7.016E+03	5.259E+02	2.338E+02	4.972E+02	1.518E+04	1.190E+04	7.326E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (32)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	2	5	7	2	2	2	2	2	2	7	5	5
X MAXIMUM	-3.403E+02	-6.087E+01	2.657E+02	2.464E+03	8.611E+03	-1.305E+03	-2.209E+02	2.604E+02	2.657E+02	7.606E+03	5.185E+03	2.441E+03
Y	11	6	5	1	5	6	6	6	5	1	1	6
Y MAXIMUM	-5.190E+01	-1.963E+02	8.140E+01	-1.418E+04	1.577E+03	4.845E+03	-1.174E+02	-1.602E+02	8.140E+01	-9.902E+03	1.018E+04	7.502E+03
Z	7	7	7	1	7	10	7	7	7	7	7	7
Z MAXIMUM	1.769E+02	4.614E+01	3.107E+02	-2.163E+03	4.118E+03	-1.526E+03	1.577E+02	-1.197E+02	3.107E+02	5.483E+03	5.933E+03	-1.181E+03
GRAND TOTAL	5.259E+02	2.338E+02	4.972E+02	1.518E+04	1.190E+04	7.325E+03	3.893E+02	4.239E+02	4.972E+02	1.629E+04	1.523E+04	9.408E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (32)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	5	2	7	5	7	2
X MAXIMUM	-6.086E+01	3.403E+02	2.657E+02	8.683E+03	3.654E+03	-6.130E+03
Y	5	11	5	5	1	6
Y MAXIMUM	-1.963E+02	5.190E+01	8.140E+01	3.042E+03	1.426E+04	8.922E+03
Z	7	7	7	7	7	2
Z MAXIMUM	4.615E+01	-1.769E+02	3.107E+02	9.711E+03	4.274E+03	-2.387E+03
GRAND TOTAL	2.338E+02	5.259E+02	4.972E+02	1.861E+04	1.665E+04	1.336E+04

ELEMENT TYPE (8 U U N D A R Y) / / / ELEMENT NUMBER (1)

	BDRY=P	BDRY=M
X	2	0
X MAXIMUM	1.584E+01	0.
Y	1	0
Y MAXIMUM	-2.168E+01	0.

Z 2 0
 Z MAXIMUM 6.168E+00 0.
 GRAND TOTAL 3.427E+01 0.

ELEMENT TYPE (B U U N D A R Y) / / / ELEMENT NUMBER (2)

BDRY=F BDRY=M
 X 5 0
 X MAXIMUM 7.918E+01 0.
 Y 6 0
 Y MAXIMUM 1.623E+02 0.
 Z 11 0
 Z MAXIMUM 8.938E+01 0.
 GRAND TOTAL 2.989E+02 0.

ELEMENT TYPE (B U U N D A R Y) / / / ELEMENT NUMBER (3)

BDRY=F BDRY=M
 X 2 0
 X MAXIMUM -2.580E+02 0.
 Y 11 0
 Y MAXIMUM 5.073E+01 0.
 Z 7 0
 Z MAXIMUM 2.597E+02 0.
 GRAND TOTAL 5.019E+02 0.

ELEMENT TYPE (B U U N D A R Y) / / / ELEMENT NUMBER (4)

-262- BDRY=F BDRY=M
 X 2 0
 X MAXIMUM 4.795E+00 0.
 Y 1 0
 Y MAXIMUM -2.611E+01 0.
 Z 1 0
 Z MAXIMUM -3.983E+00 0.
 GRAND TOTAL 2.702E+01 0.

ELEMENT TYPE (B U U N D A R Y) / / / ELEMENT NUMBER (5)

BDRY=F BDRY=M
 X 2 0
 X MAXIMUM -3.974E+00 0.
 Y 1 0
 Y MAXIMUM -6.417E-01 0.
 Z 2 0
 Z MAXIMUM -1.548E+00 0.
 GRAND TOTAL 4.586E+00 0.

ELEMENT TYPE (B U U N D A R Y) / / / ELEMENT NUMBER (6)

BDRY=F BDRY=M
 X 2 0
 X MAXIMUM -5.140E-01 0.
 Y 1 0
 Y MAXIMUM -3.075E-01 0.
 Z 7 0
 IMUM -4.229E-01 0.
 TOTAL 9.524E-01 0.

BENCHMARK PROBLEM NO. 6

Figure 6.1

BENCHMARK PROBLEM NO. 6

X AND Z SPECTRUM

Figure 6.2

BENCHMARK PROBLEM NO.6

Y SPECTRUM

Figure 6.3

PIPING BENCHMARK PROBLEM - NO. 6

C O N T R O L I N F O R M A T I O N

NUMBER OF NODAL POINTS = 60
 NUMBER OF ELEMENT TYPES = 2
 NUMBER OF LOAD CASES = 0
 NUMBER OF FREQUENCIES = 31
 ANALYSIS CODE (NDYN) = 3
 EQ.0, STATIC
 EQ.1, MODAL EXTRACTION
 EQ.2, FORCED RESPONSE
 EQ.3, RESPONSE SPECTRUM
 EQ.4, DIRECT INTEGRATION
 SOLUTION MODE (MODEX) = 0
 EQ.0, EXECUTION
 EQ.1, DATA CHECK
 NUMBER OF SUBSPACE
 ITERATION VECTORS (NAD) = 0
 EQUATIONS PER BLOCK = -0
 TAPE10 SAVE FLAG (N10SV) = 1

NODAL POINT INPUT DATA

NODE BOUNDARY CONDITION CODES

NODE NUMBER	X	Y	Z	XX	YY	ZZ
1	-0	-0	-0	-0	-0	-0
2	-0	-0	-0	-0	-0	-0
3	-0	-0	-0	-0	-0	-0
4	-0	-0	-0	-0	-0	-0
5	-0	-0	-0	-0	-0	-0
6	-0	-0	-0	-0	-0	-0
7	-0	-0	-0	-0	-0	-0
8	-0	-0	-0	-0	-0	-0
9	-0	-0	-0	-0	-0	-0
10	-0	-0	-0	-0	-0	-0
11	-0	-0	-0	-0	-0	-0
12	-0	-0	-0	-0	-0	-0
13	-0	-0	-0	-0	-0	-0
14	-0	-0	-0	-0	-0	-0
15	-0	-0	-0	-0	-0	-0
16	-0	-0	-0	-0	-0	-0
17	-0	-0	-0	-0	-0	-0
18	-0	-0	-0	-0	-0	-0
19	-0	-0	-0	-0	-0	-0
20	-0	-0	-0	-0	-0	-0
21	-0	-0	-0	-0	-0	-0
22	-0	-0	-0	-0	-0	-0
23	-0	-0	-0	-0	-0	-0
24	-0	-0	-0	-0	-0	-0
25	-0	-0	-0	-0	-0	-0
26	-0	-0	-0	-0	-0	-0
27	-0	-0	-0	-0	-0	-0
	-0	-0	-0	-0	-0	-0
	-0	-0	-0	-0	-0	-0
	-0	-0	-0	-0	-0	-0
31	-0	-0	-0	-0	-0	-0
32	-0	-0	-0	-0	-0	-0

NODAL POINT COORDINATES

X	Y	Z	T
126.000	483.996	705.840	-0
126.000	483.996	704.640	-0
126.000	528.996	659.640	-0
126.000	567.996	659.640	-0
126.000	651.996	659.640	-0
126.000	735.996	659.640	-0
126.000	802.596	659.640	-0
126.000	869.196	659.640	-0
126.000	917.196	659.640	-0
126.000	965.196	659.640	-0
126.000	968.196	659.640	-0
169.860	1013.196	649.560	-0
173.928	1013.196	648.624	-0
229.836	1013.196	630.996	-0
283.992	1013.196	608.556	-0
335.988	1013.196	581.484	-0
385.428	1013.196	550.080	-0
431.940	1013.196	514.392	-0
475.164	1013.196	474.780	-0
514.776	1013.196	431.556	-0
550.464	1013.196	385.044	-0
581.964	1013.196	335.604	-0
609.036	1013.196	283.608	-0
631.474	1013.196	229.452	-0
649.104	1013.196	173.544	-0
661.788	1013.196	116.304	-0
669.444	1013.196	58.176	-0
672.000	1013.196	-3.396	-0
669.444	1013.196	-58.968	-0
661.788	1013.196	-117.096	-0
649.104	1013.196	-174.336	-0
631.476	1013.196	-230.244	-0

38	-0	-0	-0	-0	-0	-0	262.368	1013.196	-407.844	-0	-0.000
	-0	-0	-0	-0	-0	-0	221.700	1013.196	-393.840	-0	-0.000
	-0	-0	-0	-0	-0	-0	179.160	968.196	-379.188	-0	-0.000
	-0	-0	-0	-0	-0	-0	179.160	968.172	-379.188	-0	-0.000
42	1	1	1	1	1	1	127.000	965.196	659.640	-0	-0.000
43	1	1	1	1	1	1	126.000	965.196	660.640	-0	-0.000
44	1	1	1	1	1	1	515.776	1013.196	431.556	-0	-0.000
45	1	1	1	1	1	1	514.776	1014.196	431.556	-0	-0.000
46	1	1	1	1	1	1	514.776	1013.196	432.556	-0	-0.000
47	1	1	1	1	1	1	662.788	1013.196	116.304	-0	-0.000
48	1	1	1	1	1	1	661.788	1014.196	116.304	-0	-0.000
49	1	1	1	1	1	1	661.788	1013.196	117.304	-0	-0.000
50	1	1	1	1	1	1	661.788	1014.196	-117.096	-0	-0.000
51	1	1	1	1	1	1	582.223	1013.196	-337.362	-0	-0.000
52	1	1	1	1	1	1	180.160	968.196	-379.188	-0	-0.000
53	1	1	1	1	1	1	179.160	969.196	-379.188	-0	-0.000
54	1	1	1	1	1	1	179.160	968.196	-378.188	-0	-0.000
55	1	1	1	1	1	1	180.160	968.196	-379.188	-0	-0.000
56	1	1	1	1	1	1	179.160	969.196	-379.188	-0	-0.000
57	1	1	1	1	1	1	179.160	968.196	-378.188	-0	-0.000
58	1	1	1	1	1	1	127.000	483.996	705.840	-0	-0.000
59	1	1	1	1	1	1	126.000	484.996	705.840	-0	-0.000
60	1	1	1	1	1	1	126.000	483.996	706.840	-0	-0.000

GENERATED NODAL DATA

-267-

NODE NUMBER	BOUNDARY CONDITION CODES						NODAL POINT COORDINATES				T
	X	Y	Z	XX	YY	ZZ	X	Y	Z		
1	-0	-0	-0	-0	-0	-0	126.000	483.996	705.840	-0.000	
2	-0	-0	-0	-0	-0	-0	126.000	483.996	704.640	-0.000	
3	-0	-0	-0	-0	-0	-0	126.000	528.996	659.640	-0.000	
4	-0	-0	-0	-0	-0	-0	126.000	567.996	659.640	-0.000	
5	-0	-0	-0	-0	-0	-0	126.000	651.996	659.640	-0.000	
6	-0	-0	-0	-0	-0	-0	126.000	735.996	659.640	-0.000	
7	-0	-0	-0	-0	-0	-0	126.000	802.596	659.640	-0.000	
8	-0	-0	-0	-0	-0	-0	126.000	869.196	659.640	-0.000	
9	-0	-0	-0	-0	-0	-0	126.000	917.196	659.640	-0.000	
10	-0	-0	-0	-0	-0	-0	126.000	965.196	659.640	-0.000	
11	-0	-0	-0	-0	-0	-0	126.000	968.196	659.640	-0.000	
12	-0	-0	-0	-0	-0	-0	169.860	1013.196	649.560	-0.000	
13	-0	-0	-0	-0	-0	-0	173.928	1013.196	648.624	-0.000	
14	-0	-0	-0	-0	-0	-0	229.836	1013.196	630.996	-0.000	
15	-0	-0	-0	-0	-0	-0	283.992	1013.196	608.556	-0.000	
16	-0	-0	-0	-0	-0	-0	335.988	1013.196	581.484	-0.000	
17	-0	-0	-0	-0	-0	-0	385.428	1013.196	550.080	-0.000	
18	-0	-0	-0	-0	-0	-0	431.940	1013.196	514.392	-0.000	
19	-0	-0	-0	-0	-0	-0	475.164	1013.196	474.780	-0.000	
20	-0	-0	-0	-0	-0	-0	514.776	1013.196	431.556	-0.000	
21	-0	-0	-0	-0	-0	-0	550.464	1013.196	385.044	-0.000	
22	-0	-0	-0	-0	-0	-0	581.964	1013.196	335.604	-0.000	
23	-0	-0	-0	-0	-0	-0	609.036	1013.196	283.608	-0.000	
24	-0	-0	-0	-0	-0	-0	631.474	1013.196	229.452	-0.000	
25	-0	-0	-0	-0	-0	-0	649.104	1013.196	173.544	-0.000	
26	-0	-0	-0	-0	-0	-0	661.788	1013.196	116.304	-0.000	
27	-0	-0	-0	-0	-0	-0	669.444	1013.196	58.176	-0.000	
28	-0	-0	-0	-0	-0	-0	672.000	1013.196	-3.396	-0.000	
29	-0	-0	-0	-0	-0	-0	669.444	1013.196	-58.968	-0.000	
30	-0	-0	-0	-0	-0	-0	661.788	1013.196	-117.096	-0.000	
31	-0	-0	-0	-0	-0	-0	649.104	1013.196	-174.336	-0.000	

32	-0	-0	-0	-0	-0	-0	631.476	1013.196	-230.244	-0.000
33	-0	-0	-0	-0	-0	-0	609.036	1013.196	-284.400	-0.000
34	-0	-0	-0	-0	-0	-0	581.964	1013.196	-336.396	-0.000
35	-0	-0	-0	-0	-0	-0	550.596	1013.196	-385.572	-0.000
36	-0	-0	-0	-0	-0	-0	375.312	1013.196	-446.736	-0.000
37	-0	-0	-0	-0	-0	-0	345.576	1013.196	-436.500	-0.000
38	-0	-0	-0	-0	-0	-0	262.368	1013.196	-407.844	-0.000
39	-0	-0	-0	-0	-0	-0	221.700	1013.196	-393.840	-0.000
40	-0	-0	-0	-0	-0	-0	179.160	968.196	-379.188	-0.000
41	-0	-0	-0	-0	-0	-0	179.160	968.172	-379.188	-0.000
42	1	1	1	1	1	1	127.000	965.196	659.640	-0.000
43	1	1	1	1	1	1	126.000	965.196	660.640	-0.000
44	1	1	1	1	1	1	515.776	1013.196	431.556	-0.000
45	1	1	1	1	1	1	514.776	1014.196	431.556	-0.000
46	1	1	1	1	1	1	514.776	1013.196	432.556	-0.000
47	1	1	1	1	1	1	662.788	1013.196	116.304	-0.000
48	1	1	1	1	1	1	661.788	1014.196	116.304	-0.000
49	1	1	1	1	1	1	661.788	1013.196	117.304	-0.000
50	1	1	1	1	1	1	661.788	1014.196	-117.096	-0.000
51	1	1	1	1	1	1	582.223	1013.196	-337.362	-0.000
52	1	1	1	1	1	1	180.160	968.196	-379.188	-0.000
53	1	1	1	1	1	1	179.160	969.196	-379.188	-0.000
54	1	1	1	1	1	1	179.160	968.196	-378.188	-0.000
55	1	1	1	1	1	1	180.160	968.196	-379.188	-0.000
56	1	1	1	1	1	1	179.160	969.196	-379.188	-0.000
57	1	1	1	1	1	1	179.160	968.196	-378.188	-0.000
58	1	1	1	1	1	1	127.000	483.996	705.840	-0.000
59	1	1	1	1	1	1	126.000	484.996	705.840	-0.000
60	1	1	1	1	1	1	126.000	483.996	706.840	-0.000

-268-

EQUATION NUMBERS

N	X	Y	Z	XX	YY	ZZ				
1	1	2	3	4	5	6				
48	1	1	1	1	1	1	661.788	1014.196	116.304	-0.000
49	1	1	1	1	1	1	661.788	1013.196	117.304	-0.000
50	1	1	1	1	1	1	661.788	1014.196	-117.096	-0.000
51	1	1	1	1	1	1	582.223	1013.196	-337.362	-0.000
52	1	1	1	1	1	1	180.160	968.196	-379.188	-0.000
53	1	1	1	1	1	1	179.160	969.196	-379.188	-0.000
54	1	1	1	1	1	1	179.160	968.196	-378.188	-0.000
55	1	1	1	1	1	1	180.160	968.196	-379.188	-0.000
56	1	1	1	1	1	1	179.160	969.196	-379.188	-0.000
57	1	1	1	1	1	1	179.160	968.196	-378.188	-0.000
58	1	1	1	1	1	1	127.000	483.996	705.840	-0.000
59	1	1	1	1	1	1	126.000	484.996	705.840	-0.000
60	1	1	1	1	1	1	126.000	483.996	706.840	-0.000

EQUATION NUMBERS

N	X	Y	Z	XX	YY	ZZ
1	1	2	3	4	5	6
2	7	8	9	10	11	12
3	13	14	15	16	17	18
4	19	20	21	22	23	24
5	25	26	27	28	29	30
6	31	32	33	34	35	36
	37	38	39	40	41	42
	43	44	45	46	47	48
	49	50	51	52	53	54
10	55	56	57	58	59	60

BOUNDARY ELEMENTS

ELEI TYPE = 7
NUMBER OF ELEMENTS = 19

ELEMENT LOAD CASE MULTIPLIERS

CASE(A)	CASE(B)	CASE(C)	CASE(D)
1.0000	1.0000	1.0000	1.0000

ELEMENT NUMBER	NODE (N)	NODES DEFINING (NI)	CONSTRAINT (NJ)	DIRECTION (NK)	DIRECTION (NL)	CODE KO	CODE KR	GENERATION CODE (KN)	SPECIFIED DISPLACEMENT	SPECIFIED ROTATION	SPRING RATE
1	1	58	-0	-0	-0	1	1	-0	-0.	-0.	.1000E+20
2	1	59	-0	-0	-0	1	1	-0	-0.	-0.	.1000E+20
3	1	60	-0	-0	-0	1	1	-0	-0.	-0.	.1000E+20
4	10	42	-0	-0	-0	1	-0	-0	-0.	-0.	.1000E+07
5	10	43	-0	-0	-0	1	-0	-0	-0.	-0.	.1000E+07
6	20	44	-0	-0	-0	1	-0	-0	-0.	-0.	.2500E+06
7	20	45	-0	-0	-0	1	-0	-0	-0.	-0.	.2000E+07
8	20	46	-0	-0	-0	1	-0	-0	-0.	-0.	.2500E+06
9	26	47	-0	-0	-0	1	-0	-0	-0.	-0.	.4500E+06
10	26	48	-0	-0	-0	1	-0	-0	-0.	-0.	.2000E+07
11	26	49	-0	-0	-0	1	-0	-0	-0.	-0.	.4500E+06
12	30	50	-0	-0	-0	1	-0	-0	-0.	-0.	.2000E+07
13	34	51	-0	-0	-0	1	-0	-0	-0.	-0.	.8000E+06
14	41	52	-0	-0	-0	1	-0	-0	-0.	-0.	.1000E+10
15	41	53	-0	-0	-0	1	-0	-0	-0.	-0.	.1000E+10
16	41	54	-0	-0	-0	1	-0	-0	-0.	-0.	.1000E+10
17	41	55	-0	-0	-0	-0	1	-0	-0.	-0.	.1000E+12
18	41	56	-0	-0	-0	-0	1	-0	-0.	-0.	.1000E+12
19	41	57	-0	-0	-0	-0	1	-0	-0.	-0.	.1000E+12

PIPE ELEMENT INPUT DATA

CONTROL INFORMATION

NUMBER OF PIPE ELEMENTS = 40
 NUMBER OF MATERIAL SETS = 2
 MAXIMUM NUMBER OF MATERIAL
 TEMPERATURE INPUT POINTS = 1
 NUMBER OF SECTION PROPERTY SETS = 2
 NUMBER OF BRANCH POINT NODES = 0
 MAXIMUM NUMBER OF TANGENTS
 COMMON TO A BRANCH POINT = 3
 FLAG FOR NEGLECTING AXIAL
 DEFORMATIONS IN END ELEMENTS = 0
 (EQ.1, NEGLECT)

MATERIAL PROPERTY TABLES

-270-

MATERIAL NUMBER = (1)
 NUMBER OF
 TEMPERATURE POINTS = (1)
 IDENTIFICATION = (MAT.....
 1 301.00 29900000.0 .300 -0.

MATERIAL NUMBER = (2)
 NUMBER OF
 TEMPERATURE POINTS = (1)
 IDENTIFICATION = (MAT.....2
 1 320.00 29900000.0 .300 -0.

SECTION PROPERTY TABLE

SEI NUMBER	OUTSIDE DIAMETER	WALL THICKNESS	SHAPE FACTOR FOR SHEAR	WEIGHT/ UNIT LENGTH	MASS/ UNIT LENGTH	DESCRIPTION
1	30.000	.8500	-0.0000	-0.	0.	
2	32.000	.9050	-0.0000	-0.	0.	

ELEMENT LOAD CASE MULTIPLIERS

	CASE A	CASE B	CASE C	CASE D
X-DIRECTION GRAVITY	1.000	-0.000	-0.000	-0.000
Y-DIRECTION GRAVITY	1.000	-0.000	-0.000	-0.000
Z-DIRECTION GRAVITY	1.000	-0.000	-0.000	-0.000
THERMAL DISTORTION	-0.000	-0.000	-0.000	-0.000
PRESSURE DISTORTION	-0.000	-0.000	-0.000	-0.000

PIPE ELEMENT INPUT DATA

ELEMENT NUMBER	ELEMENT TYPE	NODE -I	NODE -J	MATL. NUMBER	SECTION NUMBER	REFERENCE TEMPERATURE (BEND RADIUS)	INTERNAL PRESSURE (THIRD POINT)	D I R E C T I O N A(YX) (X3- ORDINATE)	C O S I N E S A(YY) (Y3- ORDINATE)	A(YZ) (Z3- ORDINATE)	NODE INCREMENT (WALL FRACTION)	INPUT TAG
1	TANGENT	1	2	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
2	BEND	2	3	1	1	-0.00 (45.000)	-0.00 (II)	-0.0000 (126.000)	-0.0000 (483.960)	-0.0000 (659.640)	1 (.1000)	IC
3	TANGENT	3	4	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
4	TANGENT	4	5	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
5	TANGENT	5	6	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
6	TANGENT	6	7	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
7	TANGENT	7	8	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
8	TANGENT	8	9	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
9	TANGENT	9	10	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
10	TANGENT	10	11	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	
11	BEND	11	12	1	1	-0.00 (45.000)	-0.00 (II)	-0.0000 (126.000)	-0.0000 (1013.196)	-0.0000 (659.640)	1 (.1000)	IC
12	TANGENT	12	13	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
13	TANGENT	13	14	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
14	TANGENT	14	15	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
15	TANGENT	15	16	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
16	TANGENT	16	17	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
17	TANGENT	17	18	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
18	TANGENT	18	19	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
19	TANGENT	19	20	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
20	TANGENT	20	21	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
21	TANGENT	21	22	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
22	TANGENT	22	23	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
23	TANGENT	23	24	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
24	TANGENT	24	25	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
25	TANGENT	25	26	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
26	TANGENT	26	27	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
27	TANGENT	27	28	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
28	TANGENT	28	29	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
29	TANGENT	29	30	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
30	TANGENT	30	31	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
31	TANGENT	31	32	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
32	TANGENT	32	33	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
33	TANGENT	33	34	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
34	TANGENT	34	35	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	
35	BEND	35	36	1	1	-0.00 (150.000)	-0.00 (II)	-0.0000 (487.056)	-0.0000 (1013.196)	-0.0000 (-485.196)	1 (.1000)	IC
36	TANGENT	36	37	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	II
37	TANGENT	37	38	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	0	
38	TANGENT	38	39	1	1	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	
39	BEND	39	40	2	2	-0.00 (45.000)	-0.00 (II)	-0.0000 (179.160)	-0.0000 (1013.196)	-0.0000 (-379.188)	1 (.1000)	IC
	TANGENT	40	41	2	2	-0.00	-0.00	-0.0000	-0.0000	-0.0000	1	

N O D A L L O A D S (S T A T I C) O R M A S S E S (D Y N A M I C)

NUMBER	LOAD CASE	X-AXIS FORCE	Y-AXIS FORCE	Z-AXIS FORCE	X-AXIS MOMENT	Y-AXIS MOMENT	Z-AXIS MOMENT
4	-0	9.92500E+00	9.92500E+00	9.92500E+00	-0.	-0.	-0.
5	-0	5.45300E+00	5.45300E+00	5.45300E+00	-0.	-0.	-0.
6	-0	4.88800E+00	4.88800E+00	4.88800E+00	-0.	-0.	-0.
7	-0	5.88800E+00	5.88800E+00	5.88800E+00	-0.	-0.	-0.
9	-0	5.37300E+00	5.37300E+00	5.37300E+00	-0.	-0.	-0.
11	-0	3.95000E+00	3.95000E+00	3.95000E+00	-0.	-0.	-0.
12	-0	2.43000E+00	2.43000E+00	2.43000E+00	-0.	-0.	-0.
13	-0	3.94100E+00	3.94100E+00	3.94100E+00	-0.	-0.	-0.
15	-0	7.60920E+00	7.60920E+00	7.60920E+00	-0.	-0.	-0.
17	-0	7.60920E+00	7.60920E+00	7.60920E+00	-0.	-0.	-0.
19	-0	7.61200E+00	7.61200E+00	7.61200E+00	-0.	-0.	-0.
21	-0	7.61100E+00	7.61100E+00	7.61100E+00	-0.	-0.	-0.
23	-0	7.61100E+00	7.61100E+00	7.61100E+00	-0.	-0.	-0.
25	-0	7.61100E+00	7.61100E+00	7.61100E+00	-0.	-0.	-0.
27	-0	7.61100E+00	7.61100E+00	7.61100E+00	-0.	-0.	-0.
29	-0	7.61100E+00	7.61100E+00	7.61100E+00	-0.	-0.	-0.
31	-0	7.61100E+00	7.61100E+00	7.61100E+00	-0.	-0.	-0.
33	-0	7.60100E+00	7.60100E+00	7.60100E+00	-0.	-0.	-0.
35	-0	1.02930E+01	1.02930E+01	1.02930E+01	-0.	-0.	-0.
36	-0	7.51800E+00	7.51800E+00	7.51800E+00	-0.	-0.	-0.
37	-0	3.87700E+00	3.87700E+00	3.87700E+00	-0.	-0.	-0.
38	-0	1.05280E+01	1.05280E+01	1.05280E+01	-0.	-0.	-0.

-273-

STRUCTURE LOAD CASE	ELEMENT A	LOAD B	MULTIPLIERS C	D
1	-0.000	-0.000	-0.000	-0.000

PRINT OF FREQUENCIES

MODE NUMBER	CIRCULAR FREQUENCY (RAD/SEC)	FREQUENCY (CYCLES/SEC)	PERIOD (SEC)
1	.4016E+02	.6391E+01	.1565E+00
2	.6279E+02	.9993E+01	.1001E+00
3	.8341E+02	.1327E+02	.7533E-01
4	.9102E+02	.1449E+02	.6903E-01
5	.9630E+02	.1533E+02	.6524E-01
6	.1100E+03	.1750E+02	.5714E-01
7	.1199E+03	.1909E+02	.5238E-01
8	.1233E+03	.1962E+02	.5096E-01
9	.1347E+03	.2144E+02	.4665E-01
10	.1804E+03	.2871E+02	.3483E-01
11	.1876E+03	.2986E+02	.3348E-01
12	.1978E+03	.3148E+02	.3176E-01
13	.2011E+03	.3201E+02	.3124E-01
14	.2285E+03	.3637E+02	.2750E-01
15	.2575E+03	.4098E+02	.2440E-01
16	.2599E+03	.4137E+02	.2417E-01
17	.2978E+03	.4739E+02	.2110E-01
18	.3127E+03	.4977E+02	.2009E-01
19	.3149E+03	.5013E+02	.1995E-01
20	.3326E+03	.5293E+02	.1889E-01
21	.3575E+03	.5690E+02	.1757E-01
22	.3676E+03	.5851E+02	.1709E-01
23	.4239E+03	.6747E+02	.1482E-01
24	.4427E+03	.7046E+02	.1419E-01
25	.4738E+03	.7541E+02	.1326E-01
26	.4975E+03	.7918E+02	.1263E-01
27	.5073E+03	.8074E+02	.1239E-01
28	.5410E+03	.8611E+02	.1161E-01

30	.5827E+03	.9274E+02	.1078E-01
1	.6243E+03	.9936E+02	.1006E-01

EIGENSOLUTION TIME LOG

EIGENSOLUTION =	5.47
PRINTING =	.02

CASE 1

DIRECTION FACTORS

X = 1.0000 Y = 1.0000 Z = 1.0000

INDICATOR FOR DISPLACEMENT OR ACCELERATION SPECTRUM = 1

EQ.0 DISPLACEMENT

EQ.1 ACCELERATION IN IN./SEC.2

EQ.2 ACCELERATION IN GS

3 SPECTRA ARE ENTERED FOR CASE 1. KIND= 2,

- CLUSTER FACTOR, CF = .10000

MODAL PARTICIPATION FACTORS

M	X-DIRECTION	Y-DIRECTION	Z-DIRECTION
1	.6081E+00	-.5977E+01	-.1234E+00
2	-.5761E+01	-.1995E+00	-.2996E+01
3	-.5583E+00	-.3156E+01	-.1951E+01
4	.2036E+01	.9930E-01	-.3540E+01
5	-.3312E+01	-.4261E-03	-.7389E+01
6	.4790E+01	-.3024E+01	-.2998E+01
7	.3712E+01	.1287E+00	.3637E+01
8	.1375E+01	.2015E-01	-.3465E+00
9	-.5872E+01	-.1797E+01	.4262E+01
10	.5580E+00	-.4298E+00	-.2992E+01
11	.1568E+00	.6780E+01	-.8920E+00
12	.9426E+00	.8841E+00	.1059E+01
13	.1052E+01	-.1175E+00	.1533E+01
14	-.1943E+01	-.1115E+00	.1564E+01
15	-.3199E+01	.1091E+01	.1981E+01
16	.4581E-02	-.6178E+00	-.7525E-03
17	.7430E+00	.1711E+01	-.1777E+01
18	-.1391E+01	-.4435E+01	-.3822E+00
19	.1405E+01	-.2158E+01	.1577E+00
20	-.2703E-02	.5116E+00	-.1092E+01
21	-.8638E+00	.2157E+01	-.3519E+00
22	.1718E+00	-.2128E+01	-.9082E-01
23	-.6176E+00	.7934E+00	-.1388E+01
5	-.3312E+01	-.4261E-03	-.7389E+01
6	.4790E+01	-.3024E+01	-.2998E+01
7	.3712E+01	.1287E+00	.3637E+01
8	.1375E+01	.2015E-01	-.3465E+00
9	-.5872E+01	-.1797E+01	.4262E+01
10	.5580E+00	-.4298E+00	-.2992E+01
11	.1568E+00	.6780E+01	-.8920E+00

12	.9426E+00	.8841E+00	.1059E+01
13	.1052E+01	-.1175E+00	.1533E+01
14	-.1943E+01	-.1115E+00	.1564E+01
15	-.3199E+01	.1091E+01	.1981E+01
16	.4581E-02	-.6178E+00	-.7525E-03
17	.7430E+00	.1711E+01	-.1777E+01
18	-.1391E+01	-.4445E+01	-.3822E+00
19	.1405E+01	-.2158E+01	.1577E+00
20	-.2703E-02	.5116E+00	-.1092E+01
21	-.8638E+00	.2137E+01	-.3519E+00
22	.1718E+00	-.2128E+01	-.9082E-01
23	-.6176E+00	.7944E+00	-.1388E+01
24	-.5035E+00	-.3020E+00	.6644E-01
25	.4893E+00	.1008E+00	-.2774E+00
26	.8700E+00	.1094E+01	-.8919E+00
27	-.9497E+00	-.1141E+00	-.6471E+00
28	-.7154E+00	.2176E+00	+.9148E+00
29	-.1405E+01	-.1393E+01	.6969E+00
30	.4065E+00	.3429E+00	-.2216E+00
31	-.7980E+00	-.1621E+00	.2862E-01

-278-

SPECTRUM TABLE (X DIRECTION SPECTRUM.....)

NUMBER OF POINTS = 6
SCALE FACTOR = .10000E+01

INPUT POINT	PERIOD	SPECTRUM VALUE
1	0.	.5410E+02
2	.1249E+00	.8114E+02
3	.1250E+00	.6491E+03
4	.8990E+00	.6491E+03
5	.9000E+00	.1352E+03
6	.2000E+01	.2705E+02

RUM TABLE (Y DIRECTION SPECTRUM.....)

NUMBER OF POINTS = 6

INPUT P	PERIOD	SPECTRUM VALUE
0.		.7342E+02
1	.2100E+00	.7342E+02
3	.2100E+00	.1190E+04
4	.6400E+00	.1190E+04
5	.6400E+00	.1430E+03
6	.2000E+01	.1082E+03

SPECTRUM TABLE (Z DIRECTION SPECTRUM.....)

NUMBER OF POINTS = 6
SCALE FACTOR = .10000E+01

INPUT POINT	PERIOD	SPECTRUM VALUE
1	0.	.5410E+02
2	.1249E+00	.8114E+02
3	.1250E+00	.6491E+03
4	.8990E+00	.6491E+03
5	.9000E+00	.1352E+03
6	.2000E+01	.2705E+02

CLUSTERING. +1 MEANS MODE 1 CLOSE TO 1+1. -1, NOT.

-1. -1. 1. -1. -1. 1. -1. 1. -1. 1. 1. -1. -1. -1. 1. -1. 1. 1. -1. 1. -1. -1. 1. -1. 1.
1. -1. 1. 1. -1. 0.

Solution 6(a)

Interspatial/Intermodal Combination

N O D E NUM	D I S MODE NUMBER	P L A C E M E N T S X- TRANSLATION	T R A N S L A T I O N S Y- TRANSLATION	Z- TRANSLATION	X- ROTATION	Y- ROTATION	Z- ROTATION
1	TOTAL..	1.26463E-16	2.39762E-16	1.17072E-16	9.17393E-15	4.80721E-15	6.82590E-15
2	TOTAL..	3.51510E-06	6.65254E-06	6.03608E-07	4.38908E-07	2.29684E-07	4.30378E-07
3	TOTAL..	3.53403E-03	2.48298E-03	3.21784E-03	7.30078E-05	6.23650E-05	6.07458E-05
4	TOTAL..	5.95074E-03	2.51196E-03	5.96432E-03	6.77268E-05	6.09055E-05	5.87153E-05
5	TOTAL..	1.01500E-02	2.56237E-03	1.06031E-02	4.05964E-05	5.85385E-05	3.57321E-05
6	TOTAL..	1.16506E-02	2.60621E-03	1.22425E-02	1.04696E-05	5.73339E-05	5.92377E-06
7	TOTAL..	1.04447E-02	2.63597E-03	1.09824E-02	3.54325E-05	5.76108E-05	3.33548E-05
8	TOTAL..	7.38815E-03	2.65934E-03	7.70700E-03	5.90339E-05	6.00030E-05	5.58273E-05
9	TOTAL..	4.65783E-03	2.67635E-03	4.61549E-03	6.83144E-05	6.22885E-05	6.48832E-05
10	TOTAL..	2.82519E-03	2.68891E-03	1.67264E-03	7.02871E-05	6.47331E-05	6.81833E-05
11	TOTAL..	2.83429E-03	2.68970E-03	1.59099E-03	7.01561E-05	6.48909E-05	6.82244E-05
12	TOTAL..	5.49012E-03	3.94319E-03	5.18481E-03	4.96127E-05	5.78536E-05	6.99458E-05
13	TOTAL..	5.53077E-03	4.15232E-03	5.37087E-03	4.92058E-05	5.74263E-05	6.97507E-05
14	TOTAL..	6.25490E-03	7.12625E-03	6.08800E-03	4.67340E-05	4.68615E-05	6.27054E-05
15	TOTAL..	6.97823E-03	9.32086E-03	1.00587E-02	4.75436E-05	2.85755E-05	4.74893E-05
16	TOTAL..	7.32918E-03	9.99370E-03	1.07055E-02	5.26596E-05	1.40981E-05	2.94019E-05
17	TOTAL..	7.21881E-03	9.15026E-03	1.01690E-02	5.84703E-05	2.53628E-05	2.04509E-05
18	TOTAL..	6.49778E-03	6.83550E-03	8.59146E-03	6.18867E-05	4.29778E-05	2.63370E-05
19	TOTAL..	5.63988E-03	3.73636E-03	6.92659E-03	5.94890E-05	5.14692E-05	3.09793E-05
20	TOTAL..	5.33042E-03	8.95130E-04	5.55773E-03	4.97321E-05	4.92143E-05	3.21447E-05

21 TOTAL..	6.09781E-03	2.56509E-03	4.95995E-03	3.57154E-05	3.83477E-05	3.05575E-05
22 TOTAL..	6.92264E-03	4.21841E-03	4.71683E-03	2.09694E-05	2.43993E-05	2.78611E-05
23 TOTAL..	7.16222E-03	4.79948E-03	4.56117E-03	1.32558E-05	1.76448E-05	2.61900E-05
24 TOTAL..	6.39288E-03	4.03224E-03	4.35831E-03	2.11958E-05	3.19700E-05	2.85912E-05
25 TOTAL..	5.17212E-03	2.41430E-03	4.20812E-03	2.95525E-05	5.18304E-05	3.55605E-05
26 TOTAL..	5.47920E-03	1.38210E-03	4.19021E-03	3.39056E-05	7.33149E-05	4.40371E-05
27 TOTAL..	9.36678E-03	3.50079E-03	4.34384E-03	2.92603E-05	8.80436E-05	5.16005E-05
28 TOTAL..	1.45382E-02	4.86452E-03	4.43812E-03	2.85320E-06	8.59545E-05	5.66990E-05
29 TOTAL..	1.91767E-02	3.64204E-03	4.37135E-03	5.21131E-05	6.90101E-05	6.08786E-05
30 TOTAL..	2.23085E-02	2.04181E-03	4.16712E-03	1.31747E-04	4.29293E-05	6.56501E-05
31 TOTAL..	2.35964E-02	1.29860E-02	3.88593E-03	2.11995E-04	2.32058E-05	6.70580E-05
32 TOTAL..	2.28097E-02	2.78413E-02	3.56892E-03	2.68271E-04	4.02386E-05	6.06732E-05
33 TOTAL..	2.03531E-02	4.47641E-02	3.63759E-03	3.02331E-04	6.63891E-05	4.59309E-05
34 TOTAL..	1.66653E-02	6.19400E-02	4.94681E-03	3.18163E-04	8.64178E-05	2.57543E-05
35 TOTAL..	1.26220E-02	7.78999E-02	7.60864E-03	3.19637E-04	9.58014E-05	2.42365E-05
36 TOTAL..	8.05821E-03	6.88953E-02	1.51271E-02	2.40091E-04	5.38743E-05	2.77611E-04
37 TOTAL..	7.54892E-03	5.79666E-02	1.35240E-02	2.33048E-04	6.51668E-05	2.92441E-04
38 TOTAL..	6.11695E-03	2.62188E-02	7.89545E-03	2.05821E-04	8.19391E-05	3.10753E-04
39 TOTAL..	5.67559E-03	1.08711E-02	5.33171E-03	1.87781E-04	7.98573E-05	3.04684E-04
TOTAL..	2.10253E-06	1.76633E-06	9.98795E-07	1.33649E-06	9.87977E-07	1.66058E-06

TOTAL..	0.	0.	0.	0.	0.	0.
43 TOTAL..	0.	0.	0.	0.	0.	0.
44 TOTAL..	0.	0.	0.	0.	0.	0.
45 TOTAL..	0.	0.	0.	0.	0.	0.
46 TOTAL..	0.	0.	0.	0.	0.	0.
47 TOTAL..	0.	0.	0.	0.	0.	0.
48 TOTAL..	0.	0.	0.	0.	0.	0.
49 TOTAL..	0.	0.	0.	0.	0.	0.
50 TOTAL..	0.	0.	0.	0.	0.	0.
51 TOTAL..	0.	0.	0.	0.	0.	0.
52 TOTAL..	0.	0.	0.	0.	0.	0.
53 TOTAL..	0.	0.	0.	0.	0.	0.
54 TOTAL..	0.	0.	0.	0.	0.	0.
55 TOTAL..	0.	0.	0.	0.	0.	0.
56 TOTAL..	0.	0.	0.	0.	0.	0.
57 TOTAL..	0.	0.	0.	0.	0.	0.
58 TOTAL..	0.	0.	0.	0.	0.	0.
59 TOTAL..	0.	0.	0.	0.	0.	0.
60 TOTAL..	0.	0.	0.	0.	0.	0.

RESPONSE SPECTRUM STRESS COMPONENTS (KIND = 2)

OR EACH ELEMENT, THE FOLLOWING INFORMATION IS PRINTED:

1. FOR EACH EARTH QUAKE DIRECTION, THE NUMBER OF THE MODE WITH THE LARGEST STRESS.
 2. THE VALUE OF THAT STRESS.
 3. IF REQUESTED, THE MODE BY MODE STRESSES FOR EACH EARTH QUAKE DIRECTION.
 4. THE RESULTANT FOR EACH EARTH QUAKE DIRECTION.
 5. THE GRAND TOTAL OF THE THREE EARTH QUAKE DIRECTIONS.
- (NOTE: THE X, Y, OR Z REFERS TO THE EARTH QUAKE DIRECTION.)

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (1)

	BDRY-F	BDRY-M
X	6	9
X MAXIMUM	3.301E+02	1.291E+04
Y	3	11
Y MAXIMUM	2.660E+02	4.625E+04
Z	5	3
Z MAXIMUM	5.793E+02	2.187E+04
GRAND TOTAL	1.265E+03	9.174E+04

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (2)

	BDRY-F	BDRY-M
X	6	5
X MAXIMUM	-5.887E+02	-1.453E+04
Y	11	3
Y MAXIMUM	1.574E+03	-6.341E+03
Z	9	5
Z MAXIMUM	-3.836E+02	-3.242E+04
GRAND TOTAL	2.398E+03	4.807E+04

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (3)

	BDRY-F	BDRY-M
X	4	4
X MAXIMUM	-2.150E+02	-1.826E+04
Y	3	3
Y MAXIMUM	4.931E+02	-1.638E+04
Z	4	4
Z MAXIMUM	3.737E+02	3.174E+04
GRAND TOTAL	1.171E+03	6.826E+04

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (4)

	BDRY-F	BDRY-M
X	9	0
X MAXIMUM	1.458E+03	0.
Y	9	0
Y MAXIMUM	5.103E+02	0.
Z	5	0
Z MAXIMUM	1.725E+03	0.
GRAND TOTAL	2.825E+03	0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (5)

	BDRY-F	BDRY-M
X	9	0
X MAXIMUM	-4.539E+02	0.
Y	11	0
Y MAXIMUM	-3.515E+02	0.
Z	5	0

Z MAXIMUM 7.795E+02 0.
GRAND TOTAL 1.673E+03 0.

EI TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (6)

	BDRY-F	BDRY-M
X	9	0
X MAXIMUM	4.699E+02 0.	
Y	6	0
Y MAXIMUM	-2.034E+02 0.	
Z	7	0
Z MAXIMUM	4.188E+02 0.	
GRAND TOTAL	1.333E+03 0.	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (7)

	BDRY-F	BDRY-M
X	6	0
X MAXIMUM	-6.125E+02 0.	
Y	11	0
Y MAXIMUM	1.079E+03 0.	
Z	6	0
Z MAXIMUM	3.833E+02 0.	
GRAND TOTAL	1.790E+03 0.	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (8)

	BDRY-F	BDRY-M
X	5	0
X MAXIMUM	4.618E+02 0.	
Y	6	0
Y MAXIMUM	1.935E+02 0.	
Z	5	0
Z MAXIMUM	1.030E+03 0.	
GRAND TOTAL	1.389E+03 0.	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (9)

	BDRY-F	BDRY-M
X	2	0
X MAXIMUM	1.572E+03 0.	
Y	6	0
Y MAXIMUM	-3.466E+02 0.	
Z	5	0
Z MAXIMUM	-9.346E+02 0.	
GRAND TOTAL	2.466E+03 0.	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (10)

	BDRY-F	BDRY-M
X	1	0
X MAXIMUM	1.466E+03 0.	
Y	1	0
Y MAXIMUM	-1.630E+03 0.	
Z	1	0
Z MAXIMUM	-2.974E+02 0.	
GRAND TOTAL	2.764E+03 0.	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (11)

	BDRY-F	BDRY-M
X	7	0
X MAXIMUM	5.194E+02 0.	

Y 6 0
Y MAXIMUM 2.935E+02 0.
Z 5 0
Z MAXIMUM 8.883E+02 0.
GRAND TOTAL 1.886E+03 0.

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (12)

BDRY-F BDRY-M
X 1 0
X MAXIMUM -2.555E+03 0.
Y 1 0
Y MAXIMUM 2.840E+03 0.
Z 1 0
Z MAXIMUM 5.183E+02 0.
GRAND TOTAL 4.084E+03 0.

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (13)

BDRY-F BDRY-M
X 1 0
X MAXIMUM 3.794E+02 0.
Y 1 0
Y MAXIMUM -4.217E+02 0.
Z 5 0
Z MAXIMUM -6.327E+02 0.
GRAND TOTAL 1.490E+03 0.

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (14)

BDRY-F BDRY-M
X 2 0
X MAXIMUM 1.427E+03 0.
Y 18 0
Y MAXIMUM 3.475E+02 0.
Z 2 0
Z MAXIMUM 7.417E+02 0.
GRAND TOTAL 1.991E+03 0.

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (15)

BDRY-F BDRY-M
X 1 0
X MAXIMUM -1.133E+03 0.
Y 1 0
Y MAXIMUM 1.259E+03 0.
Z 1 0
Z MAXIMUM 2.298E+02 0.
GRAND TOTAL 1.750E+03 0.

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (16)

BDRY-F BDRY-M
X 2 0
X MAXIMUM 5.579E+02 0.
Y 17 0
Y MAXIMUM -9.892E+01 0.
Z 2 0
Z MAXIMUM 2.901E+02 0.
GRAND TOTAL 9.468E+02 0.

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (17)

```

      BDRY-F      BDRY-M
X          0          1
X          UM      0.      -8.578E+04
Y          0          1
Y MAXIMUM  0.          9.535E+04
Z          0          1
Z MAXIMUM  0.          1.740E+04
GRAND TOTAL 0.          1.328E+05

```

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (18)

```

      BDRY-F      BDRY-M
X          0          2
X MAXIMUM  0.          -7.934E+04
Y          0          1
Y MAXIMUM  0.          1.873E+04
Z          0          2
Z MAXIMUM  0.          -4.126E+04
GRAND TOTAL 0.          9.782E+04

```

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (19)

```

      BDRY-F      BDRY-M
X          0          1
X MAXIMUM  0.          -1.039E+05
Y          0          1
Y MAXIMUM  0.          1.155E+05
Z          0          1
Z MAXIMUM  0.          2.109E+04
GRAND TOTAL 0.          1.659E+05

```

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (1)

```

      PX(I)      VY(I)      VZ(I)      TX(I)      MY(I)      MZ(I)      PX(J)      VY(J)      VZ(J)      TX(J)      MY(J)      MZ(J)
X          4          6          6          4          5          9          4          6          6          4          5          9
X MAXIMUM  2.150E+02-5.887E+02 3.301E+02 1.826E+04-1.453E+04 1.291E+04 2.150E+02-5.887E+02 3.301E+02 1.826E+04-1.422E+04 1.227E+04
Y          3          11         3          3          3          11         3          11         3          3          3          11
Y MAXIMUM -4.931E+02 1.574E+03 2.660E+02 1.638E+04-6.341E+03 4.625E+04-4.931E+02 1.574E+03 2.660E+02 1.638E+04-6.022E+03 4.436E+04
Z          4          9          5          4          5          3          4          9          5          4          5          3
Z MAXIMUM -3.737E+02-3.836E+02 5.793E+02-3.174E+04-3.242E+04 2.187E+04-3.737E+02-3.836E+02 5.793E+02-3.174E+04-3.173E+04 2.150E+04
GRAND TOTAL 1.171E+03 2.398E+03 1.265E+03 6.826E+04 4.807E+04 9.174E+04 1.171E+03 2.398E+03 1.265E+03 6.826E+04 4.664E+04 8.926E+04

```

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (2)

```

      PX(I)      VY(I)      VZ(I)      TX(I)      MY(I)      MZ(I)      PX(C)      VY(C)      VZ(C)      TX(C)      MY(C)      MZ(C)
X          4          6          6          4          5          9          6          9          6          6          5          4
X MAXIMUM  2.150E+02-5.889E+02 3.301E+02 1.827E+04-1.421E+04 1.227E+04-5.421E+02 3.049E+02 3.301E+02 1.197E+04-9.848E+03-5.634E+03
Y          3          11         3          3          3          11         3          11         3          3          3          3
Y MAXIMUM -4.935E+02 1.574E+03 2.660E+02 1.639E+04-6.009E+03 4.436E+04 1.129E+03 1.097E+03 2.660E+02 1.084E+04-7.371E+03 1.315E+04
Z          4          9          5          4          5          3          6          3          5          4          5          4
Z MAXIMUM -3.738E+02-3.837E+02 5.793E+02-3.176E+04-3.171E+04 2.150E+04 3.393E+02 4.258E+02 5.793E+02-1.753E+04-2.197E+04 9.796E+03
GRAND TOTAL 1.171E+03 2.398E+03 1.265E+03 6.829E+04 4.659E+04 8.926E+04 1.826E+03 1.960E+03 1.265E+03 3.885E+04 3.862E+04 3.086E+04

```

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (2)

```

      PX(J)      VY(J)      VZ(J)      TX(J)      MY(J)      MZ(J)
X          6          4          6          6          4          6
X MAXIMUM -5.889E+02-2.150E+02 3.301E+02 7.533E+03-3.535E+03 7.326E+03
Y          11         3          3          3          3          11
Y MAXIMUM  1.574E+03 4.935E+02 2.660E+02 5.961E+03-4.416E+03-2.543E+04
Z          9          4          5          4          4          3
Z MAXIMUM -3.837E+02 3.738E+02 5.793E+02-8.041E+03 6.146E+03-5.595E+03
GRAND TOTAL 2.398E+03 1.171E+03 1.265E+03 2.236E+04 1.428E+04 3.776E+04

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ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (3)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	6	4	6	6	4	6	6	4	6	6	5	4
X MAXIMUM	-5.887E+02	-2.150E+02	3.301E+02	7.530E+03	-3.539E+03	7.326E+03	-5.887E+02	-2.150E+02	3.301E+02	7.530E+03	1.041E+04	1.042E+04
Y	11	3	3	3	3	11	11	3	3	3	6	3
Y MAXIMUM	1.574E+03	4.931E+02	2.660E+02	5.957E+03	-4.420E+03	-2.543E+04	1.574E+03	4.931E+02	2.660E+02	5.957E+03	-6.718E+03	-2.867E+04
Z	9	4	5	4	4	3	9	4	5	4	5	4
Z MAXIMUM	-3.836E+02	3.737E+02	5.793E+02	-8.036E+03	6.152E+03	-5.595E+03	-3.836E+02	3.737E+02	5.793E+02	-8.036E+03	2.323E+04	-1.812E+04
GRAND TOTAL	2.398E+03	1.171E+03	1.265E+03	2.235E+04	1.429E+04	3.776E+04	2.398E+03	1.171E+03	1.265E+03	2.235E+04	4.040E+04	6.649E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (4)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	6	6	4	6	5	4	6	6	4	6	4	4
X MAXIMUM	-5.700E+02	1.385E+02	2.018E+02	7.530E+03	1.041E+04	1.042E+04	-5.700E+02	1.385E+02	2.018E+02	7.530E+03	2.618E+04	2.102E+04
Y	11	3	3	3	6	3	11	3	3	3	3	3
Y MAXIMUM	1.241E+03	2.922E+02	1.820E+02	5.957E+03	-6.718E+03	-2.867E+04	1.241E+03	2.922E+02	1.820E+02	5.957E+03	2.125E+04	-5.322E+04
Z	6	4	4	4	5	4	6	4	4	4	5	4
Z MAXIMUM	3.567E+02	2.193E+02	-3.508E+02	-8.036E+03	2.323E+04	-1.812E+04	3.567E+02	2.193E+02	-3.508E+02	-8.036E+03	4.753E+04	-3.654E+04
GRAND TOTAL	1.967E+03	7.494E+02	7.518E+02	2.235E+04	4.040E+04	6.649E+04	1.967E+03	7.494E+02	7.518E+02	2.235E+04	9.993E+04	1.136E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (5)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	6	6	4	6	4	4	6	6	4	6	4	4
X MAXIMUM	-5.583E+02	7.472E+01	8.130E+01	7.530E+03	2.618E+04	2.102E+04	-5.583E+02	7.472E+01	8.130E+01	7.530E+03	3.301E+04	2.418E+04
Y	11	3	3	3	3	3	11	3	3	3	3	3
Y MAXIMUM	1.049E+03	-2.457E+02	9.694E+01	5.957E+03	2.125E+04	-5.322E+04	1.049E+03	-2.457E+02	9.694E+01	5.957E+03	2.939E+04	-6.147E+04
Z	6	4	4	4	5	4	6	4	4	4	5	4
Z MAXIMUM	3.494E+02	6.540E+01	-1.413E+02	-8.036E+03	4.753E+04	-3.654E+04	3.494E+02	6.540E+01	-1.413E+02	-8.036E+03	-5.739E+04	-4.203E+04
GRAND TOTAL	1.729E+03	4.202E+02	3.149E+02	2.235E+04	9.993E+04	1.136E+05	1.729E+03	4.202E+02	3.149E+02	2.235E+04	1.222E+05	1.321E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (6)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	6	4	6	6	4	4	6	4	6	6	4	4
X MAXIMUM	-5.466E+02	5.384E+01	-1.114E+02	7.530E+03	3.301E+04	2.418E+04	-5.466E+02	5.384E+01	-1.114E+02	7.530E+03	3.010E+04	2.059E+04
Y	11	3	3	3	3	3	11	3	3	3	3	3
Y MAXIMUM	8.712E+02	-1.055E+02	7.767E+01	5.957E+03	2.939E+04	-6.147E+04	8.712E+02	-1.055E+02	7.767E+01	5.957E+03	2.977E+04	-5.479E+04
Z	6	5	5	4	4	4	6	5	5	4	4	4
Z MAXIMUM	3.421E+02	-1.175E+02	-2.086E+02	-8.036E+03	-5.739E+04	-4.203E+04	3.421E+02	-1.175E+02	-2.086E+02	-8.036E+03	-5.233E+04	-3.580E+04
GRAND TOTAL	1.516E+03	3.538E+02	3.130E+02	2.235E+04	1.222E+05	1.321E+05	1.516E+03	3.538E+02	3.130E+02	2.235E+04	1.088E+05	1.177E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (7)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	6	4	6	6	4	4	6	4	6	6	4	4
X MAXIMUM	-5.315E+02	1.521E+02	-2.622E+02	7.530E+03	3.010E+04	2.059E+04	-5.315E+02	1.521E+02	-2.622E+02	7.530E+03	1.821E+04	-1.153E+04
Y	11	3	3	3	3	3	11	3	3	3	3	3
Y MAXIMUM	6.513E+02	-3.130E+02	1.828E+02	5.957E+03	2.977E+04	-5.479E+04	6.513E+02	-3.130E+02	1.828E+02	5.957E+03	2.346E+04	-3.395E+04
Z	6	5	5	4	4	4	6	5	5	4	4	4
Z MAXIMUM	3.326E+02	-2.799E+02	-4.728E+02	-8.036E+03	-5.233E+04	-3.580E+04	3.326E+02	-2.799E+02	-4.728E+02	-8.036E+03	-3.165E+04	-2.012E+04
GRAND TOTAL	1.298E+03	7.924E+02	8.002E+02	2.235E+04	1.088E+05	1.177E+05	1.298E+03	7.924E+02	8.002E+02	2.235E+04	6.710E+04	6.923E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (8)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	6	4	6	6	4	4	6	4	6	6	9	4
X UM	-5.315E+02	1.521E+02	-2.622E+02	7.530E+03	1.821E+04	-1.153E+04	-5.315E+02	1.521E+02	-2.622E+02	7.530E+03	-1.476E+04	-7.296
Y	11	3	3	3	3	3	11	3	3	3	3	3
Y MAXIMUM	6.513E+02	-3.130E+02	1.828E+02	5.957E+03	2.346E+04	-3.395E+04	6.513E+02	-3.130E+02	1.828E+02	5.957E+03	1.891E+04	-1.893

Z MAXIMUM 3.326E+02-2.799E+02-4.728E+02-8.036E+03-3.165E+04-2.012E+04 3.326E+02-2.799E+02-4.728E+02-8.036E+03-1.730E+04-1.122E+04
 GRAI AL 1.298E+03 7.924E+02 8.002E+02 2.235E+04 6.710E+04 6.923E+04 1.298E+03 7.924E+02 8.002E+02 2.235E+04 5.269E+04 3.981E

ELE TYPE (3/D P I P E) / / / ELEMENT NUMBER (9)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	6	4	6	6	9	6	6	4	6	6	6	5
X MAXIMUM	-5.160E+02	1.896E+02	-3.195E+02	7.530E+03	-1.476E+04	-7.296E+03	-5.160E+02	1.896E+02	-3.195E+02	7.530E+03	-2.532E+04	9.962E+03
Y	11	3	6	3	3	3	11	3	6	3	6	9
Y MAXIMUM	4.446E+02	-3.879E+02	2.228E+02	5.957E+03	1.891E+04	-1.893E+04	4.446E+02	-3.879E+02	2.228E+02	5.957E+03	1.766E+04	-3.083E+03
Z	6	5	5	4	5	3	6	5	5	4	5	5
Z MAXIMUM	3.229E+02	-3.516E+02	-6.009E+02	-8.036E+03	-1.730E+04	-1.122E+04	3.229E+02	-3.516E+02	-6.009E+02	-8.036E+03	-4.614E+04	2.223E+04
GRAND TOTAL	1.123E+03	1.064E+03	1.036E+03	2.235E+04	5.269E+04	3.981E+04	1.123E+03	1.064E+03	1.036E+03	2.235E+04	7.085E+04	3.561E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (10)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	6	9	9	6	6	5	6	9	9	6	6	5
X MAXIMUM	-5.160E+02	-3.155E+02	-1.304E+03	7.530E+03	-2.532E+04	9.962E+03	-5.160E+02	-3.155E+02	-1.304E+03	7.530E+03	-2.499E+04	9.387E+03
Y	11	18	9	3	6	9	11	18	9	3	6	9
Y MAXIMUM	4.446E+02	1.412E+02	4.563E+02	5.957E+03	1.766E+04	-3.083E+03	4.446E+02	1.412E+02	4.563E+02	5.957E+03	1.743E+04	-2.751E+03
Z	6	5	5	4	5	5	6	5	5	4	5	5
Z MAXIMUM	3.229E+02	4.278E+02	1.124E+03	-8.036E+03	-4.614E+04	2.223E+04	3.229E+02	4.278E+02	1.124E+03	-8.036E+03	-4.277E+04	2.094E+04
GRAND TOTAL	1.123E+03	1.039E+03	2.169E+03	2.235E+04	7.085E+04	3.561E+04	1.123E+03	1.039E+03	2.169E+03	2.235E+04	6.570E+04	3.282E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (11)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	6	9	5	6	5	6	9	9	5	6	4	9
X MAXIMUM	-5.040E+02	1.229E+03	-2.815E+02	7.530E+03	1.344E+04	2.463E+04	1.125E+03	6.131E+02	-2.815E+02	1.057E+04	-5.000E+03	-1.479E+04
Y	6	9	3	3	6	6	9	6	3	6	6	6
Y MAXIMUM	3.515E+02	4.301E+02	1.811E+02	5.957E+03	-3.080E+03	-1.718E+04	3.937E+02	-3.124E+02	1.811E+02	-7.373E+03	-2.041E+03	-9.672E+03
Z	6	5	5	4	5	5	9	5	5	5	4	9
Z MAXIMUM	3.154E+02	9.452E+02	-6.281E+02	-8.036E+03	2.999E+04	3.699E+04	-8.168E+02	7.220E+02	-6.281E+02	8.940E+03	8.692E+03	1.074E+04
GRAND TOTAL	1.023E+03	1.984E+03	9.652E+02	2.235E+04	4.152E+04	6.362E+04	1.738E+03	1.443E+03	9.652E+02	2.131E+04	1.345E+04	3.232E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (11)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	6	5	6	5	9
X MAXIMUM	1.229E+03	5.040E+02	-2.815E+02	1.167E+04	-1.014E+04	-1.947E+04
Y	9	6	3	6	18	11
Y MAXIMUM	4.301E+02	-3.515E+02	1.811E+02	-8.138E+03	-2.698E+03	8.196E+03
Z	5	6	5	6	5	9
Z MAXIMUM	9.452E+02	-3.154E+02	-6.281E+02	-7.303E+03	-2.262E+04	1.413E+04
GRAND TOTAL	1.984E+03	1.023E+03	9.652E+02	2.281E+04	3.041E+04	3.909E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (12)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	6	5	6	5	9	9	6	5	6	5	9
X MAXIMUM	1.129E+03	-4.633E+02	2.419E+02	1.167E+04	1.014E+04	1.947E+04	1.129E+03	-4.633E+02	2.419E+02	1.167E+04	1.115E+04	1.797E+04
Y	9	6	3	6	18	11	9	6	3	6	3	11
Y MAXIMUM	3.952E+02	3.231E+02	-1.468E+02	-8.137E+03	2.698E+03	-8.196E+03	3.952E+02	3.231E+02	-1.468E+02	-8.137E+03	-2.804E+03	-8.980E+03
Z	5	6	5	6	5	9	5	6	5	6	5	9
Z MAXIMUM	8.993E+02	2.900E+02	5.398E+02	-7.302E+03	2.262E+04	-1.413E+04	8.993E+02	2.900E+02	5.398E+02	-7.302E+03	2.488E+04	-1.305E+04
GRAND TOTAL	1.835E+03	9.217E+02	8.089E+02	2.281E+04	3.041E+04	3.909E+04	1.835E+03	9.217E+02	8.089E+02	2.281E+04	3.306E+04	3.965E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (13)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	6	5	6	5	9	9	6	5	6	5	6

X MAXIMUM	9.663E+02	-3.913E+02	2.029E+02	1.117E+04	1.115E+04	1.766E+04	9.663E+02	-3.913E+02	2.029E+02	1.117E+04	2.305E+04	2.966E+04
Y	9	6	1A	6	3	11	9	6	1A	6	3	6
Y MAXIMUM	3.381E+02	2.729E+02	-1.061E+02	-7.791E+03	-2.804E+03	-9.083E+03	3.381E+02	2.729E+02	-1.061E+02	-7.791E+03	-8.797E+03	-2.068E+04
Z	5	9	5	6	5	4	5	9	5	6	5	6
Z MAXIMUM	7.915E+02	-2.539E+02	4.527E+02	-6.991E+03	2.488E+04	1.332E+04	7.915E+02	-2.539E+02	4.527E+02	-6.991E+03	5.142E+04	-1.856E+04
GRAND TOTAL	1.577E+03	7.853E+02	6.733E+02	2.208E+04	3.306E+04	3.981E+04	1.577E+03	7.853E+02	6.733E+02	2.208E+04	6.601E+04	5.950E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (14)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	6	5	6	5	6	9	6	5	6	5	6
X MAXIMUM	9.580E+02	-3.913E+02	2.331E+02	8.540E+03	2.305E+04	3.052E+04	9.580E+02	-3.913E+02	2.331E+02	8.540E+03	3.671E+04	5.346E+04
Y	9	6	3	3	3	6	9	6	3	3	3	6
Y MAXIMUM	3.353E+02	2.729E+02	-1.144E+02	7.550E+03	-8.797E+03	-2.128E+04	3.353E+02	2.729E+02	-1.144E+02	7.550E+03	-1.550E+04	-3.728E+04
Z	5	9	5	6	5	6	5	9	5	6	5	6
Z MAXIMUM	7.490E+02	-2.539E+02	5.201E+02	-5.344E+03	5.142E+04	-1.910E+04	7.490E+02	-2.539E+02	5.201E+02	-5.344E+03	8.191E+04	-3.345E+04
GRAND TOTAL	1.547E+03	7.853E+02	7.417E+02	1.902E+04	6.601E+04	6.022E+04	1.547E+03	7.853E+02	7.417E+02	1.902E+04	1.074E+05	9.998E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (15)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	14	6	5	6	9	9	14	6	5	6
X MAXIMUM	6.491E+02	9.207E+01	-5.461E+01	3.851E+03	3.671E+04	5.400E+04	6.491E+02	9.207E+01	-5.461E+01	3.851E+03	3.532E+04	5.318E+04
Y	9	11	12	3	3	6	9	11	12	3	3	6
Y MAXIMUM	2.272E+02	-1.893E+02	-4.308E+01	9.532E+03	-1.550E+04	-3.766E+04	2.272E+02	-1.893E+02	-4.308E+01	9.532E+03	-1.455E+04	-3.709E+04
Z	5	9	5	3	5	6	5	9	5	3	5	6
Z MAXIMUM	6.765E+02	-6.684E+01	-5.317E+01	5.651E+03	8.191E+04	-3.379E+04	6.765E+02	-6.684E+01	-5.317E+01	5.651E+03	7.879E+04	-3.328E+04
GRAND TOTAL	1.185E+03	3.208E+02	2.377E+02	1.487E+04	1.074E+05	1.001E+05	1.185E+03	3.208E+02	2.377E+02	1.487E+04	1.029E+05	9.677E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (16)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	1	5	6	9	9	9	1	5	6
X MAXIMUM	6.434E+02	9.207E+01	9.432E+01	-2.738E+03	3.532E+04	5.331E+04	6.434E+02	9.207E+01	9.432E+01	-2.738E+03	3.545E+04	5.250E+04
Y	9	11	12	3	3	6	9	11	12	3	3	6
Y MAXIMUM	2.252E+02	-1.893E+02	-4.289E+01	1.112E+04	-1.455E+04	-3.718E+04	2.252E+02	-1.893E+02	-4.289E+01	1.112E+04	-1.408E+04	-3.661E+04
Z	5	9	9	3	5	6	5	9	9	3	5	6
Z MAXIMUM	6.786E+02	-6.684E+01	-6.847E+01	6.595E+03	7.879E+04	-3.337E+04	6.786E+02	-6.684E+01	-6.847E+01	6.595E+03	7.908E+04	-3.285E+04
GRAND TOTAL	1.181E+03	3.208E+02	2.548E+02	1.637E+04	1.029E+05	9.633E+04	1.181E+03	3.208E+02	2.548E+02	1.637E+04	1.035E+05	9.681E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (17)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	6	5	6	5	6	9	6	5	6	5	6
X MAXIMUM	3.746E+02	4.279E+02	-2.684E+02	-5.365E+03	3.545E+04	5.223E+04	3.746E+02	4.279E+02	-2.684E+02	-5.365E+03	1.971E+04	2.714E+04
Y	6	6	3	3	3	6	6	6	3	3	3	11
Y MAXIMUM	1.387E+02	-2.985E+02	1.262E+02	1.239E+04	-1.408E+04	-3.642E+04	1.387E+02	-2.985E+02	1.262E+02	1.239E+04	-6.680E+03	2.180E+04
Z	5	6	5	3	5	6	5	6	5	3	5	6
Z MAXIMUM	7.673E+02	-2.678E+02	-5.988E+02	7.342E+03	7.908E+04	-3.268E+04	7.673E+02	-2.678E+02	-5.988E+02	7.342E+03	4.398E+04	-1.698E+04
GRAND TOTAL	1.083E+03	8.554E+02	8.052E+02	2.170E+04	1.035E+05	9.573E+04	1.083E+03	8.554E+02	8.052E+02	2.170E+04	5.949E+04	5.414E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (18)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	6	5	6	5	6	9	6	5	6	9	9
X MAXIMUM	3.821E+02	4.279E+02	-2.374E+02	-7.712E+03	1.971E+04	2.657E+04	3.821E+02	4.279E+02	-2.374E+02	-7.712E+03	6.775E+03	-6.749E+03
Y	6	6	18	3	3	11	6	6	18	3	18	11
Y MAXIMUM	1.433E+02	-2.985E+02	1.258E+02	1.243E+04	-6.680E+03	2.172E+04	1.433E+02	-2.985E+02	1.258E+02	1.243E+04	7.945E+03	3.269E+04
Z	5	6	5	3	5	6	5	6	5	3	5	3
Z M	8.166E+02	-2.678E+02	-5.296E+02	7.368E+03	4.398E+04	-1.663E+04	8.166E+02	-2.678E+02	-5.296E+02	7.368E+03	1.293E+04	7.541E
GRA TAL	1.129E+03	8.554E+02	7.314E+02	2.465E+04	5.949E+04	5.296E+04	1.129E+03	8.554E+02	7.314E+02	2.465E+04	3.045E+04	4.284E

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (19)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ
X	5	6	5	6	9	9	5	6	5	6	5	
X	UM	4.630E+02	5.986E+02	-3.833E+02	-7.811E+03	6.775E+03	-6.275E+03	4.630E+02	5.986E+02	-3.833E+02	-7.811E+03	-1.668E+04
Y	6	6	3	3	18	11	6	6	3	3	3	11
Y MAXIMUM		2.506E+02	-4.175E+02	1.803E+02	1.127E+04	7.945E+03	3.241E+04	2.506E+02	-4.175E+02	1.803E+02	1.127E+04	1.080E+04
Z	5	6	5	3	5	3	5	6	5	3	5	6
Z MAXIMUM		1.033E+03	-3.746E+02	-8.551E+02	6.683E+03	1.293E+04	8.154E+03	1.033E+03	-3.746E+02	-8.551E+02	6.683E+03	-3.721E+04
GRAND TOTAL		1.358E+03	1.212E+03	1.104E+03	2.421E+04	3.043E+04	4.317E+04	1.358E+03	1.212E+03	1.104E+03	2.421E+04	5.009E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (20)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	1	7	6	5	6	9	1	7	6	7	6
X MAXIMUM		5.643E+02	-1.580E+02	4.491E+02	-4.789E+03	-1.668E+04	-3.485E+04	5.643E+02	-1.580E+02	4.491E+02	-4.789E+03	2.224E+04
Y	9	11	6	3	3	11	9	11	6	3	3	3
Y MAXIMUM		1.975E+02	9.125E+02	-6.844E+01	8.625E+03	1.080E+04	4.161E+04	1.975E+02	9.125E+02	-6.844E+01	8.625E+03	9.255E+03
Z	5	13	7	3	5	6	5	13	7	3	5	6
Z MAXIMUM		4.235E+02	1.009E+02	4.401E+02	5.113E+03	-3.721E+04	2.181E+04	4.235E+02	1.008E+02	4.401E+02	5.113E+03	-3.460E+04
GRAND TOTAL		9.989E+02	1.074E+03	8.745E+02	1.933E+04	5.009E+04	9.208E+04	9.989E+02	1.074E+03	8.745E+02	1.933E+04	6.481E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (21)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	1	2	1	7	6	9	1	2	1	2	6
X MAXIMUM		3.556E+02	-1.527E+02	-2.801E+02	-2.712E+03	2.228E+04	-3.432E+04	3.556E+02	-1.527E+02	-2.801E+02	-2.712E+03	-3.185E+04
Y	1	11	18	11	3	3	1	11	18	11	3	11
Y MAXIMUM		1.277E+02	4.439E+02	-1.237E+02	-7.303E+03	9.255E+03	2.744E+04	1.277E+02	4.439E+02	-1.237E+02	-7.303E+03	8.426E+03
Z	5	3	2	3	5	6	5	3	2	3	5	6
Z MAXIMUM		6.180E+02	5.349E+01	-1.457E+02	3.710E+03	-3.460E+04	2.148E+04	6.180E+02	5.349E+01	-1.457E+02	3.710E+03	-3.521E+04
GRAND TOTAL		9.782E+02	5.903E+02	5.016E+02	1.391E+04	6.481E+04	7.792E+04	9.782E+02	5.903E+02	5.016E+02	1.391E+04	7.904E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (22)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	1	2	1	2	6	9	1	2	1	2	1
X MAXIMUM		3.557E+02	-1.527E+02	-3.020E+02	-4.129E+03	-3.185E+04	-2.951E+04	3.557E+02	-1.527E+02	-3.020E+02	-4.129E+03	-4.956E+04
Y	1	11	18	1	3	11	1	11	18	1	6	11
Y MAXIMUM		1.267E+02	4.439E+02	-1.228E+02	4.589E+03	8.426E+03	-3.908E+04	1.267E+02	4.439E+02	-1.228E+02	4.589E+03	-7.912E+03
Z	5	3	2	3	5	6	5	3	2	3	7	6
Z MAXIMUM		6.166E+02	5.349E+01	-1.570E+02	2.552E+03	-3.521E+04	1.847E+04	6.166E+02	5.349E+01	-1.570E+02	2.552E+03	3.828E+04
GRAND TOTAL		9.743E+02	5.903E+02	5.132E+02	1.012E+04	7.904E+04	8.160E+04	9.743E+02	5.903E+02	5.132E+02	1.012E+04	9.868E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (23)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	5	6	2	1	2	1	5	6	2	1	2	1
X MAXIMUM		3.595E+02	-2.118E+02	-2.691E+02	-6.294E+03	-4.956E+04	2.458E+04	3.595E+02	-2.118E+02	-2.691E+02	-6.294E+03	-6.533E+04
Y	6	11	6	1	6	11	6	11	6	1	18	11
Y MAXIMUM		1.718E+02	-4.300E+02	6.131E+01	6.996E+03	-7.912E+03	-6.520E+04	1.718E+02	-4.300E+02	6.131E+01	6.996E+03	-7.626E+03
Z	5	6	7	6	7	6	5	6	7	6	2	6
Z MAXIMUM		8.020E+02	1.326E+02	-2.252E+02	-1.822E+03	3.828E+04	1.533E+04	8.020E+02	1.326E+02	-2.252E+02	-1.822E+03	-3.397E+04
GRAND TOTAL		1.096E+03	6.862E+02	6.032E+02	1.200E+04	9.868E+04	9.784E+04	1.096E+03	6.862E+02	6.032E+02	1.200E+04	9.200E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (24)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	5	6	2	1	2	1	5	6	2	1	2	1
X MAXIMUM		3.513E+02	-2.118E+02	-2.856E+02	-9.139E+03	-6.533E+04	3.222E+04	3.513E+02	-2.118E+02	-2.856E+02	-9.139E+03	-8.208E+04
Y	6	11	6	1	18	11	6	11	6	1	18	1
Y MAXIMUM		1.658E+02	-4.300E+02	7.606E+01	1.016E+04	-7.626E+03	-3.968E+04	1.658E+02	-4.300E+02	7.606E+01	1.016E+04	-9.095E+03
Z	5	6	5	6	2	6	5	6	5	6	2	1
Z MAXIMUM		7.837E+02	1.326E+02	2.442E+02	-2.474E+03	-3.397E+04	7.368E+03	7.837E+02	1.326E+02	2.442E+02	-2.474E+03	-4.268E+04

GRAND TOTAL 1.081E+03 6.862E+02 6.583E+02 1.713E+04 9.200E+04 7.173E+04 1.081E+03 6.862E+02 6.583E+02 1.713E+04 9.838E+04 6.395E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (25)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	5	6	7	1	2	1	5	6	7	1	2	1
X MAXIMUM	4.163E+02	-2.719E+02	-4.418E+02	-1.264E+04	-8.208E+04	3.959E+04	4.163E+02	-2.719E+02	-4.418E+02	-1.264E+04	-1.010E+05	4.773E+04
Y	6	11	6	1	18	1	6	11	6	1	18	1
Y MAXIMUM	2.330E+02	-9.033E+02	1.588E+02	1.405E+04	-9.095E+03	-4.400E+04	2.330E+02	-9.033E+02	1.588E+02	1.405E+04	-9.450E+03	-5.306E+04
Z	5	6	5	1	2	1	5	6	5	1	2	1
Z MAXIMUM	9.288E+02	1.702E+02	4.360E+02	2.565E+03	-4.268E+04	-8.031E+03	9.288E+02	1.702E+02	4.360E+02	2.565E+03	-5.252E+04	-1.059E+04
GRAND TOTAL	1.322E+03	1.197E+03	1.176E+03	2.203E+04	9.838E+04	6.243E+04	1.322E+03	1.197E+03	1.176E+03	2.203E+04	1.240E+05	9.186E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (26)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	1	2	1	2	1	9	1	2	1	2	1
X MAXIMUM	5.501E+02	1.327E+03	1.289E+03	-1.675E+04	-1.010E+05	4.645E+04	5.501E+02	1.327E+03	1.289E+03	-1.675E+04	-2.543E+04	-3.136E+04
Y	1	1	6	1	6	1	1	1	6	1	18	1
Y MAXIMUM	3.077E+02	-1.475E+03	-1.269E+02	1.862E+04	9.450E+03	-5.164E+04	3.077E+02	-1.475E+03	-1.269E+02	1.862E+04	4.674E+03	3.486E+04
Z	9	1	2	1	2	6	9	1	2	1	7	6
Z MAXIMUM	-3.993E+02	-2.692E+02	6.704E+02	3.398E+03	-5.252E+04	-1.077E+04	-3.993E+02	-2.692E+02	6.704E+02	3.398E+03	-1.410E+04	-8.261E+03
GRAND TOTAL	1.200E+03	2.138E+03	1.587E+03	2.643E+04	1.240E+05	9.066E+04	1.200E+03	2.138E+03	1.587E+03	2.643E+04	4.349E+04	6.809E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (27)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	1	2	1	2	1	2	1	2	1	2	1
X MAXIMUM	-4.738E+02	1.300E+03	1.015E+03	-1.395E+04	-2.543E+04	3.270E+04	-4.738E+02	1.300E+03	1.015E+03	-1.395E+04	3.410E+04	-1.089E+05
Y	1	1	6	1	18	1	1	1	6	1	18	1
Y MAXIMUM	3.090E+02	-1.445E+03	-6.885E+01	1.950E+04	4.674E+03	3.635E+04	3.090E+02	-1.445E+03	-6.885E+01	1.950E+04	6.676E+03	1.211E+05
Z	9	1	2	1	7	6	9	1	2	1	7	1
Z MAXIMUM	-2.693E+02	-2.637E+02	5.279E+02	2.830E+03	-1.410E+04	-8.361E+03	-2.693E+02	-2.637E+02	5.279E+02	2.830E+03	1.773E+04	2.209E+04
GRAND TOTAL	9.677E+02	1.983E+03	1.203E+03	2.168E+04	4.369E+04	6.970E+04	9.677E+02	1.983E+03	1.203E+03	2.168E+04	3.304E+04	1.689E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (28)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	1	2	1	2	1	2	1	2	1	2	1
X MAXIMUM	-5.604E+02	1.300E+03	9.701E+02	-4.408E+03	3.410E+04	-1.097E+05	-5.604E+02	1.300E+03	9.701E+02	-4.408E+03	9.097E+04	-1.859E+05
Y	1	1	6	1	18	1	1	1	6	1	18	1
Y MAXIMUM	3.136E+02	-1.445E+03	-7.234E+01	4.900E+03	6.676E+03	1.220E+05	3.136E+02	-1.445E+03	-7.234E+01	4.900E+03	8.724E+03	2.067E+05
Z	2	1	2	3	2	1	2	1	2	3	2	1
Z MAXIMUM	-2.914E+02	-2.637E+02	5.044E+02	1.569E+03	1.773E+04	2.226E+04	-2.914E+02	-2.637E+02	5.044E+02	1.569E+03	4.730E+04	3.772E+04
GRAND TOTAL	1.014E+03	1.983E+03	1.164E+03	8.899E+03	5.304E+04	1.701E+05	1.014E+03	1.983E+03	1.164E+03	8.899E+03	1.166E+05	2.824E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (29)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	1	2	1	2	1	2	1	2	1	2	1
X MAXIMUM	-5.269E+02	1.272E+03	4.331E+02	1.183E+04	9.097E+04	-1.856E+05	-5.269E+02	1.272E+03	4.331E+02	1.183E+04	1.164E+05	-2.602E+05
Y	1	1	18	1	18	1	1	1	18	1	18	1
Y MAXIMUM	3.069E+02	-1.413E+03	-1.086E+02	-1.315E+04	8.724E+03	2.063E+05	3.069E+02	-1.413E+03	-1.086E+02	-1.315E+04	-6.010E+03	2.892E+05
Z	2	1	2	1	2	1	2	1	2	1	2	1
Z MAXIMUM	-2.740E+02	-2.580E+02	2.252E+02	-2.399E+03	4.730E+04	3.765E+04	-2.740E+02	-2.580E+02	2.252E+02	-2.399E+03	6.050E+04	5.277E+04
GRAND TOTAL	9.172E+02	2.090E+03	5.784E+02	1.936E+04	1.166E+05	2.819E+05	9.172E+02	2.090E+03	5.784E+02	1.936E+04	1.393E+05	3.938E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (30)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	1	2	1	2	1	2	1	2	1	2	1
X MAXIMUM	-5.626E+02	-1.283E+03	3.856E+02	3.442E+04	1.164E+05	-2.581E+05	-5.626E+02	-1.283E+03	3.856E+02	3.442E+04	1.390E+05	-1.829E
Y	1	1	18	1	6	1	1	1	18	1	6	1

Y MAXIMUM 3.055E+02 1.426E+03-1.067E+02-3.826E+04-6.010E+03 2.869E+05 3.055E+02 1.426E+03-1.067E+02-3.826E+04-6.010E+03 2.869E+05
 Z 2 1 2 1 2 1 2 1 2 1 2 1 2
 Z I IM -2.925E+02 2.603E+02 2.005E+02-6.982E+03 6.050E+04 5.237E+04-2.925E+02 2.603E+02 2.005E+02-6.982E+03 6.050E+04 5.237E+04
 GRJ ITAL 9.460E+02 2.046E+03 5.304E+02 5.251E+04 1.393E+05 3.908E+05 9.460E+02 2.046E+03 5.304E+02 5.251E+04 1.393E+05 3.908E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (31)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	1	2	1	2	1	2	1	2	1	2	1
X MAXIMUM	-3.745E+02	-1.178E+03	-2.457E+02	5.024E+04	1.390E+05	-1.792E+05	-3.745E+02	-1.178E+03	-2.457E+02	5.024E+04	1.246E+05	-1.101E+05
Y	1	1	1	1	6	1	1	1	1	1	18	1
Y MAXIMUM	2.894E+02	1.309E+03	7.573E+01	-5.585E+04	-5.650E+03	1.992E+05	2.894E+02	1.309E+03	7.573E+01	-5.585E+04	-6.495E+03	1.224E+05
Z	10	1	5	1	2	1	10	1	5	1	2	1
Z MAXIMUM	3.735E+02	2.390E+02	1.902E+02	-1.019E+04	7.226E+04	3.635E+04	3.735E+02	2.390E+02	1.902E+02	-1.019E+04	6.477E+04	2.234E+04
GRAND TOTAL	8.684E+02	1.786E+03	5.842E+02	7.622E+04	1.629E+05	2.713E+05	8.684E+02	1.786E+03	5.842E+02	7.622E+04	1.424E+05	1.684E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (32)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	1	2	1	2	1	2	1	2	1	2	1
X MAXIMUM	-3.536E+02	-1.178E+03	-2.776E+02	5.967E+04	1.246E+05	-1.053E+05	-3.536E+02	-1.178E+03	-2.776E+02	5.967E+04	1.083E+05	-3.629E+04
Y	1	1	1	1	18	1	1	1	1	1	1	1
Y MAXIMUM	2.816E+02	1.309E+03	1.007E+02	-6.632E+04	-6.495E+03	1.171E+05	2.816E+02	1.309E+03	1.007E+02	-6.632E+04	8.943E+03	4.034E+04
Z	10	1	5	1	2	1	10	1	5	1	2	1
Z MAXIMUM	3.777E+02	2.390E+02	2.143E+02	-1.210E+04	6.477E+04	2.137E+04	3.777E+02	2.390E+02	2.143E+02	-1.210E+04	5.631E+04	7.361E+03
GRAND TOTAL	8.456E+02	1.786E+03	6.162E+02	9.039E+04	1.424E+05	1.612E+05	8.456E+02	1.786E+03	6.162E+02	9.039E+04	1.261E+05	6.437E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (33)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	2	1	2	1	1	1	2	1	2	1
X MAXIMUM	-2.297E+02	-8.145E+02	-7.506E+02	6.260E+04	1.083E+05	-3.095E+04	-2.297E+02	-8.145E+02	-7.506E+02	6.260E+04	6.429E+04	1.679E+04
Y	1	1	1	1	1	1	1	1	1	1	1	1
Y MAXIMUM	2.553E+02	9.054E+02	1.477E+02	-6.958E+04	8.943E+03	3.441E+04	2.553E+02	9.054E+02	1.477E+02	-6.958E+04	1.760E+04	-1.867E+04
Z	10	1	2	1	2	17	10	1	2	1	2	2
Z MAXIMUM	4.690E+02	1.652E+02	-3.903E+02	-1.270E+04	5.631E+04	7.190E+03	4.690E+02	1.652E+02	-3.903E+02	-1.270E+04	3.343E+04	4.579E+03
GRAND TOTAL	8.392E+02	1.290E+03	1.116E+03	9.487E+04	1.261E+05	5.755E+04	8.392E+02	1.290E+03	1.116E+03	9.487E+04	9.269E+04	3.253E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (34)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	1	2	1	2	1	9	1	2	1	2	1
X MAXIMUM	2.650E+02	-8.145E+02	-8.383E+02	6.089E+04	6.429E+04	2.222E+04	2.650E+02	-8.145E+02	-8.383E+02	6.089E+04	1.540E+04	6.973E+04
Y	9	1	1	1	1	1	9	1	1	1	1	1
Y MAXIMUM	9.275E+01	9.054E+02	-1.416E+02	-6.768E+04	1.760E+04	-2.470E+04	9.275E+01	9.054E+02	-1.416E+02	-6.768E+04	9.340E+03	-7.751E+04
Z	9	1	2	1	2	7	9	1	2	1	2	1
Z MAXIMUM	-1.924E+02	1.652E+02	-4.359E+02	-1.235E+04	3.343E+04	4.537E+03	-1.924E+02	1.652E+02	-4.359E+02	-1.235E+04	1.635E+04	-1.414E+04
GRAND TOTAL	6.458E+02	1.290E+03	1.075E+03	9.235E+04	9.269E+04	3.910E+04	6.458E+02	1.290E+03	1.075E+03	9.235E+04	4.912E+04	1.087E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (35)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	2	2	8	1	1	2	2	2	8	2	1	2
X MAXIMUM	4.136E+02	1.050E+03	-1.248E+02	6.089E+04	-6.972E+04	1.540E+04	9.750E+02	5.692E+02	-1.248E+02	-1.299E+04	-8.852E+04	-6.880E+04
Y	1	1	18	1	1	1	17	1	18	1	1	2
Y MAXIMUM	-6.886E+01	9.586E+01	5.677E+01	-6.768E+04	7.750E+04	9.340E+03	9.616E+01	1.179E+02	5.677E+01	-6.723E+03	9.840E+04	-2.308E+03
Z	2	2	17	1	1	5	2	2	17	2	1	2
Z MAXIMUM	2.151E+02	5.462E+02	-3.903E+01	-1.235E+04	1.414E+04	1.635E+04	5.069E+02	2.960E+02	-3.903E+01	-6.756E+03	1.796E+04	-3.577E+04
GRAND TOTAL	6.829E+02	1.262E+03	2.581E+02	9.236E+04	1.087E+05	4.912E+04	1.187E+03	8.042E+02	2.581E+02	1.948E+04	1.341E+05	7.822E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (35)

PX(J) VY(J) VZ(J) TX(J) MY(J) MZ(J)

		2	9	8	1	1	2
X	MAXIMUM	1.118E+03	-1.675E+02	-1.248E+02	-4.866E+04	-6.935E+04	-9.027E+04
Y		21	1	18	1	1	1
Y	MAXIMUM	8.786E+01	8.939E+01	5.677E+01	5.409E+04	7.709E+04	-1.255E+04
Z		2	10	17	1	1	2
Z	MAXIMUM	5.814E+02	-1.959E+02	-3.903E+01	9.872E+03	1.407E+04	-4.694E+04
GRAND	TOTAL	1.330E+03	5.369E+02	2.581E+02	7.677E+04	1.081E+05	1.115E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (36)

		PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		2	1	2	1	2	1	2	1	2	1	2	1
X	MAXIMUM	1.136E+03	5.957E+02	5.593E+02	-4.867E+04	-9.027E+04	6.934E+04	1.136E+03	5.957E+02	5.593E+02	-4.867E+04	-7.269E+04	5.061E+04
Y		18	1	21	1	1	1	18	1	21	1	1	1
Y	MAXIMUM	1.200E+02	-6.622E+02	8.523E+01	5.410E+04	-1.255E+04	-7.708E+04	1.200E+02	-6.622E+02	8.523E+01	5.410E+04	-1.489E+04	-5.626E+04
Z		2	1	2	1	2	1	2	1	2	1	2	1
Z	MAXIMUM	5.905E+02	-1.208E+02	2.908E+02	9.874E+03	-4.694E+04	-1.407E+04	5.905E+02	-1.208E+02	2.908E+02	9.874E+03	-3.779E+04	-1.027E+04
GRAND	TOTAL	1.428E+03	9.290E+02	6.733E+02	7.679E+04	1.115E+05	1.081E+05	1.428E+03	9.290E+02	6.733E+02	7.679E+04	9.460E+04	8.076E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (37)

		PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		2	1	2	1	2	1	2	1	2	1	2	1
X	MAXIMUM	1.145E+03	8.358E+02	7.419E+02	-4.868E+04	-7.269E+04	5.060E+04	1.145E+03	8.358E+02	7.419E+02	-4.868E+04	-1.858E+04	-2.295E+04
Y		18	1	21	1	1	1	18	1	21	1	1	1
Y	MAXIMUM	1.834E+02	-9.291E+02	8.858E+01	5.411E+04	-1.489E+04	-5.625E+04	1.834E+02	-9.291E+02	8.858E+01	5.411E+04	-2.066E+04	2.551E+04
Z		2	1	2	1	2	1	2	1	2	1	10	2
Z	MAXIMUM	5.951E+02	-1.696E+02	3.857E+02	9.876E+03	-3.779E+04	-1.027E+04	5.951E+02	-1.696E+02	3.857E+02	9.876E+03	1.222E+04	7.614E+03
GRAND	TOTAL	1.507E+03	1.298E+03	8.880E+02	7.680E+04	9.460E+04	8.075E+04	1.507E+03	1.298E+03	8.880E+02	7.680E+04	4.291E+04	4.677E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (38)

		PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		2	1	2	1	1	1	2	1	2	1	2	1
X	MAXIMUM	1.167E+03	1.131E+03	9.916E+02	-4.868E+04	1.858E+04	-2.295E+04	1.167E+03	1.131E+03	9.916E+02	-4.868E+04	3.525E+04	-7.158E+04
Y		18	1	21	1	1	1	18	1	21	1	1	1
Y	MAXIMUM	3.483E+02	-1.257E+03	-1.103E+02	5.411E+04	-2.066E+04	2.551E+04	3.483E+02	-1.257E+03	-1.103E+02	5.411E+04	-2.219E+04	7.957E+04
Z		2	1	2	1	10	2	2	1	2	1	2	1
Z	MAXIMUM	6.067E+02	-2.294E+02	5.156E+02	9.876E+03	1.222E+04	7.615E+03	6.067E+02	-2.294E+02	5.156E+02	9.876E+03	1.833E+04	1.452E+04
GRAND	TOTAL	1.773E+03	1.749E+03	1.305E+03	7.680E+04	4.291E+04	4.677E+04	1.773E+03	1.749E+03	1.305E+03	7.680E+04	9.058E+04	1.114E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (39)

		PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X		2	1	2	1	2	1	2	1	2	2	2	1
X	MAXIMUM	1.167E+03	-1.131E+03	-9.917E+02	-4.868E+04	-3.525E+04	7.158E+04	8.819E+02	-8.580E+02	-9.917E+02	-5.044E+04	-4.404E+04	1.086E+05
Y		18	1	21	1	1	1	1	1	21	1	1	1
Y	MAXIMUM	3.483E+02	1.257E+03	1.103E+02	5.411E+04	2.219E+04	-7.957E+04	8.236E+02	9.537E+02	1.103E+02	5.442E+04	-2.144E+04	-1.208E+05
Z		2	1	2	1	2	1	2	1	2	2	2	1
Z	MAXIMUM	6.067E+02	2.294E+02	-5.156E+02	9.875E+03	-1.833E+04	-1.452E+04	4.586E+02	-3.994E+02	-5.156E+02	-2.623E+04	-2.290E+04	-2.204E+04
GRAND	TOTAL	1.773E+03	1.749E+03	1.305E+03	7.679E+04	5.058E+04	1.114E+05	1.774E+03	1.751E+03	1.305E+03	9.477E+04	5.989E+04	1.642E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (39)

		PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		1	2	2	2	1	1
X	MAXIMUM	-1.131E+03	-1.167E+03	-9.917E+02	-7.988E+04	4.723E+04	1.262E+05
Y		1	18	21	1	1	1
Y	MAXIMUM	1.257E+03	-3.483E+02	1.103E+02	2.380E+04	-5.250E+04	-1.403E+05
Z		1	2	2	2	2	1
Z	UM	2.294E+02	-6.067E+02	-5.156E+02	-4.153E+04	-1.406E+04	-2.560E+04
GR	DIAL	1.749E+03	1.773E+03	1.305E+03	1.004E+05	8.110E+04	1.963E+05

EI T TYPE (3/D P I P E) / / / ELEMENT NUMBER (40)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	2	2	2	1	1	1	2	2	2	1	1
X MAXIMUM	-1.131E+03	-5.577E+02	1.426E+03	-7.988E+04	1.039E+05	-8.575E+04	-1.131E+03	-5.577E+02	1.426E+03	-7.988E+04	1.039E+05	-8.575E+04
Y	1	17	18	1	1	1	1	17	18	1	1	1
Y MAXIMUM	1.257E+03	9.889E+01	3.474E+02	2.379E+04	-1.155E+05	9.532E+04	1.257E+03	9.889E+01	3.474E+02	2.379E+04	-1.155E+05	9.532E+04
Z	1	2	2	2	1	1	1	2	2	2	1	1
Z MAXIMUM	2.294E+02	-2.900E+02	7.415E+02	-4.154E+04	-2.108E+04	1.740E+04	2.294E+02	-2.900E+02	7.415E+02	-4.154E+04	-2.108E+04	1.740E+04
GRAND TOTAL	1.749E+03	9.465E+02	1.990E+03	1.004E+05	1.659E+05	1.327E+05	1.749E+03	9.465E+02	1.990E+03	1.004E+05	1.659E+05	1.327E+05

Solution 6(b)

Intermodal/Interspatial Combination

N O D E N I	D I S P L A C E M E N T S / R O T A T I O N S M O D E N U M B E R	X- T R A N S L A T I O N	Y- T R A N S L A T I O N	Z- T R A N S L A T I O N	X- R O T A T I O N	Y- R O T A T I O N	Z- R O T A T I O N
1 TOTAL..	1.18160E-16	2.29764E-16	1.06009E-16	8.49457E-15	4.62909E-15	6.30587E-15	
2 TOTAL..	3.28794E-06	6.36928E-06	5.46572E-07	4.06165E-07	2.21280E-07	3.97590E-07	
3 TOTAL..	3.34533E-03	2.25834E-03	2.89354E-03	6.54077E-05	5.98057E-05	5.65111E-05	
4 TOTAL..	5.59128E-03	2.28629E-03	5.34036E-03	6.07631E-05	5.87576E-05	5.44805E-05	
5 TOTAL..	9.47239E-03	2.33518E-03	9.49327E-03	3.66930E-05	5.72259E-05	3.28297E-05	
6 TOTAL..	1.08298E-02	2.37790E-03	1.09738E-02	1.00224E-05	5.67462E-05	5.57785E-06	
7 TOTAL..	9.69174E-03	2.40707E-03	9.85613E-03	3.17264E-05	5.74371E-05	3.10436E-05	
8 TOTAL..	6.87764E-03	2.43021E-03	6.92974E-03	5.28235E-05	5.97318E-05	5.11549E-05	
9 TOTAL..	4.41732E-03	2.44707E-03	4.17086E-03	6.11355E-05	6.18637E-05	5.87964E-05	
10 TOTAL..	2.80963E-03	2.45971E-03	1.58905E-03	6.29570E-05	6.42143E-05	6.11076E-05	
11 TOTAL..	2.81876E-03	2.46050E-03	1.52405E-03	6.28466E-05	6.43680E-05	6.11091E-05	
12 TOTAL..	5.27967E-03	3.75455E-03	5.10734E-03	4.87288E-05	5.73268E-05	6.58586E-05	
13 TOTAL..	5.31987E-03	3.94909E-03	5.29925E-03	4.83970E-05	5.68985E-05	6.57160E-05	
14 TOTAL..	6.03699E-03	6.76651E-03	7.97621E-03	4.56556E-05	4.64305E-05	5.94349E-05	
15 TOTAL..	6.75591E-03	8.88860E-03	9.91583E-03	4.56635E-05	2.83457E-05	4.50455E-05	
16 TOTAL..	7.11009E-03	9.56496E-03	1.05582E-02	4.99530E-05	1.34563E-05	2.78337E-05	
17 TOTAL..	7.00334E-03	8.78559E-03	1.00397E-02	5.52960E-05	2.49399E-05	1.93757E-05	
18 TOTAL..	6.29299E-03	6.57598E-03	8.50200E-03	5.86185E-05	4.21959E-05	2.53881E-05	
19 TOTAL..	5.44924E-03	3.60033E-03	6.84743E-03	5.64890E-05	5.05418E-05	3.03893E-05	
20 TOTAL..	5.15497E-03	8.60283E-04	5.47303E-03	4.73898E-05	4.83301E-05	3.12124E-05	

21 TOTAL..	5.92400E-03	2.48067E-03	4.86531E-03	3.42642E-05	3.76230E-05	2.93444E-05
22 TOTAL..	6.73612E-03	4.08386E-03	4.62031E-03	2.03370E-05	2.37996E-05	2.67391E-05
23 TOTAL..	6.96558E-03	4.64864E-03	4.46465E-03	1.28853E-05	1.71814E-05	2.55058E-05
24 TOTAL..	6.21038E-03	3.90582E-03	4.26354E-03	2.06960E-05	3.16248E-05	2.84424E-05
25 TOTAL..	5.02757E-03	2.33377E-03	4.11881E-03	2.89652E-05	5.15312E-05	3.53358E-05
26 TOTAL..	5.41811E-03	1.36776E-03	4.11052E-03	3.35435E-05	7.31877E-05	4.38125E-05
27 TOTAL..	9.35674E-03	3.49750E-03	4.27229E-03	2.91597E-05	8.80150E-05	5.14207E-05
28 TOTAL..	1.45207E-02	4.86062E-03	4.36939E-03	2.75372E-06	8.59385E-05	5.65464E-05
29 TOTAL..	1.91589E-02	3.63618E-03	4.30022E-03	5.20725E-05	6.89558E-05	6.07492E-05
30 TOTAL..	2.22947E-02	2.03375E-03	4.09221E-03	1.31710E-04	4.28161E-05	6.55519E-05
31 TOTAL..	2.35880E-02	1.29835E-02	3.81059E-03	2.11979E-04	2.27624E-05	6.69852E-05
32 TOTAL..	2.28067E-02	2.78395E-02	3.50183E-03	2.68264E-04	3.98537E-05	6.06061E-05
33 TOTAL..	2.03516E-02	4.47631E-02	3.59139E-03	3.02319E-04	6.61564E-05	4.58320E-05
34 TOTAL..	1.66622E-02	6.19396E-02	4.92442E-03	3.18143E-04	8.63152E-05	2.55487E-05
35 TOTAL..	1.26147E-02	7.78995E-02	7.59565E-03	3.19619E-04	9.57733E-05	2.39926E-05
36 TOTAL..	8.05273E-03	6.88946E-02	1.51086E-02	2.40047E-04	5.38244E-05	2.77607E-04
37 TOTAL..	7.54350E-03	5.79658E-02	1.35042E-02	2.32999E-04	6.51232E-05	2.92438E-04
38 TOTAL..	6.11302E-03	2.62180E-02	7.87901E-03	2.05743E-04	8.18423E-05	3.10744E-04
39 TOTAL..	5.67302E-03	1.08703E-02	5.32199E-03	1.87684E-04	7.97301E-05	3.04672E-04
40 TOTAL..	2.08363E-06	1.76376E-06	9.80421E-07	1.33501E-06	9.85372E-07	1.65903E-06
41 TOTAL..	1.97471E-06	1.74791E-06	9.30363E-07	1.32506E-06	9.75626E-07	1.64659E-06

43 TOTAL..	0.	0.	0.	0.	0.	0.
43 TOTAL..	0.	0.	0.	0.	0.	0.
44 TOTAL..	0.	0.	0.	0.	0.	0.
45 TOTAL..	0.	0.	0.	0.	0.	0.
46 TOTAL..	0.	0.	0.	0.	0.	0.
47 TOTAL..	0.	0.	0.	0.	0.	0.
48 TOTAL..	0.	0.	0.	0.	0.	0.
49 TOTAL..	0.	0.	0.	0.	0.	0.
50 TOTAL..	0.	0.	0.	0.	0.	0.
51 TOTAL..	0.	0.	0.	0.	0.	0.
52 TOTAL..	0.	0.	0.	0.	0.	0.
53 TOTAL..	0.	0.	0.	0.	0.	0.
54 TOTAL..	0.	0.	0.	0.	0.	0.
55 TOTAL..	0.	0.	0.	0.	0.	0.
56 TOTAL..	0.	0.	0.	0.	0.	0.
57 TOTAL..	0.	0.	0.	0.	0.	0.
58 TOTAL..	0.	0.	0.	0.	0.	0.
59 TOTAL..	0.	0.	0.	0.	0.	0.
60 TOTAL..	0.	0.	0.	0.	0.	0.

RESPONSE SPECTRUM STRESS COMPONENTS (KIND = 2)

OR EACH ELEMENT, THE FOLLOWING INFORMATION IS PRINTED:

1. FOR EACH EARTH QUAKE DIRECTION; THE NUMBER OF THE MODE WITH THE LARGEST STRESS.
 2. THE VALUE OF THAT STRESS.
 3. IF REQUESTED; THE MODE BY MODE STRESSES FOR EACH EARTH QUAKE DIRECTION.
 4. THE RESULTANT FOR EACH EARTH QUAKE DIRECTION.
 5. THE GRAND TOTAL OF THE THREE EARTH QUAKE DIRECTIONS.
- (NOTE: THE X, Y, OR Z REFERS TO THE EARTH QUAKE DIRECTION.)

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (1)

	BDY-F	BDY-M	
X		6	9
X MAXIMUM	3.301E+02	1.291E+04	
Y		3	11
Y MAXIMUM	2.660E+02	4.625E+04	
Z		5	3
Z MAXIMUM	5.793E+02	2.187E+04	
GRAND TOTAL	1.182E+03	8.495E+04	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (2)

	BDY-F	BDY-M	
X		6	5
X MAXIMUM	-5.887E+02	-1.453E+04	
Y		11	3
Y MAXIMUM	1.574E+03	-6.341E+03	
Z		9	5
Z MAXIMUM	-3.836E+02	-3.242E+04	
GRAND TOTAL	2.298E+03	4.629E+04	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (3)

	BDY-F	BDY-M	
X		4	4
X MAXIMUM	-2.150E+02	-1.826E+04	
Y		3	3
Y MAXIMUM	4.931E+02	-1.638E+04	
Z		4	4
Z MAXIMUM	3.737E+02	3.174E+04	
GRAND TOTAL	1.060E+03	6.306E+04	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (4)

	BDY-F	BDY-M	
X		9	0
X MAXIMUM	1.458E+03	0.	
Y		9	0
Y MAXIMUM	5.103E+02	0.	
Z		5	0
Z MAXIMUM	1.725E+03	0.	
GRAND TOTAL	2.810E+03	0.	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (5)

	BDY-F	BDY-M	
X		9	0
X MAXIMUM	-4.539E+02	0.	
Y		11	0
Y MAXIMUM	-3.515E+02	0.	
Z		5	0

Z MAXIMUM 7.795E+02 0.
GRAND TOTAL 1.589E+03 0.

ELE TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (6)

BDRY-F BDRY-M
X 9 0
X MAXIMUM 4.699E+02 0.
Y 6 0
Y MAXIMUM -2.034E+02 0.
Z 7 0
Z MAXIMUM 4.188E+02 0.
GRAND TOTAL 1.289E+03 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (7)

BDRY-F BDRY-M
X 6 0
X MAXIMUM -6.125E+02 0.
Y 11 0
Y MAXIMUM 1.079E+03 0.
Z 6 0
Z MAXIMUM 3.833E+02 0.
GRAND TOTAL 1.721E+03 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (8)

BDRY-F BDRY-M
X 5 0
X MAXIMUM 4.618E+02 0.
Y 6 0
Y MAXIMUM 1.935E+02 0.
Z 5 0
Z MAXIMUM 1.030E+03 0.
GRAND TOTAL 1.368E+03 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (9)

BDRY-F BDRY-M
X 2 0
X MAXIMUM 1.572E+03 0.
Y 6 0
Y MAXIMUM -3.466E+02 0.
Z 5 0
Z MAXIMUM -9.346E+02 0.
GRAND TOTAL 2.438E+03 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (10)

BDRY-F BDRY-M
X 1 0
X MAXIMUM 1.466E+03 0.
Y 1 0
Y MAXIMUM -1.630E+03 0.
Z 1 0
Z MAXIMUM -2.974E+02 0.
GRAND TOTAL 2.736E+03 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (11)

BDRY-F BDRY-M
X 7 0
X MAXIMUM 5.194E+02 0.

Y 6 0
Y MAXIMUM 2.935E+02 0.
Z 5 0
Z MAXIMUM 8.883E+02 0.
GRAND TOTAL 1.850E+03 0.

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (12)

BDRY-F BDRY-M /
X 1 0
X MAXIMUM -2.555E+03 0.
Y 1 0
Y MAXIMUM 2.840E+03 0.
Z 1 0
Z MAXIMUM 5.183E+02 0.
GRAND TOTAL 4.067E+03 0.

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (13)

BDRY-F BDRY-M
X 1 0
X MAXIMUM 3.794E+02 0.
Y 1 0
Y MAXIMUM -4.217E+02 0.
Z 5 0
Z MAXIMUM -6.327E+02 0.
GRAND TOTAL 1.449E+03 0.

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (14)

BDRY-F BDRY-M
X 2 0
X MAXIMUM 1.427E+03 0.
Y 18 0
Y MAXIMUM 3.475E+02 0.
Z 2 0
Z MAXIMUM 7.417E+02 0.
GRAND TOTAL 1.973E+03 0.

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (15)

BDRY-F BDRY-M
X 1 0
X MAXIMUM -1.133E+03 0.
Y 1 0
Y MAXIMUM 1.259E+03 0.
Z 1 0
Z MAXIMUM 2.298E+02 0.
GRAND TOTAL 1.748E+03 0.

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (16)

BDRY-F BDRY-M
X 2 0
X MAXIMUM 5.579E+02 0.
Y 17 0
Y MAXIMUM -9.892E+01 0.
Z 2 0
Z UM 2.901E+02 0.
GR OTAL 9.294E+02 0.

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (17)

```

      BDRY-F      BDRY-M
      )
      ) MUM 0.      0      1
      )      0      1
      Y MAXIMUM 0.      0      1
      Z MAXIMUM 0.      0      1
      GRAND TOTAL 0.      0      1

```

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (18)

```

      BDRY-F      BDRY-M
      X MAXIMUM 0.      0      2
      Y MAXIMUM 0.      0      1
      Z MAXIMUM 0.      0      2
      GRAND TOTAL 0.      0      1

```

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (19)

```

      BDRY-F      BDRY-M
      X MAXIMUM 0.      0      1
      Y MAXIMUM 0.      0      1
      Z MAXIMUM 0.      0      1
      GRAND TOTAL 0.      0      1

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ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (1)

```

      PX(I)      VY(I)      VZ(I)      TX(I)      MY(I)      MZ(I)      PX(J)      VY(J)      VZ(J)      TX(J)      MY(J)      MZ(J)
      X MAXIMUM 2.150E+02-5.887E+02 3.301E+02 1.826E+04-1.453E+04 1.291E+04 2.150E+02-5.887E+02 3.301E+02 1.826E+04-1.422E+04 1.227E+04
      Y MAXIMUM -4.931E+02 1.574E+03 2.660E+02 1.638E+04-6.341E+03 4.625E+04-4.931E+02 1.574E+03 2.660E+02 1.638E+04-6.022E+03 4.436E+04
      Z MAXIMUM -3.737E+02-3.836E+02 5.793E+02-3.174E+04-3.242E+04 2.187E+04-3.737E+02-3.836E+02 5.793E+02-3.174E+04-3.173E+04 2.150E+04
      GRAND TOTAL 1.060E+03 2.298E+03 1.182E+03 6.306E+04 4.629E+04 8.495E+04 1.060E+03 2.298E+03 1.182E+03 6.306E+04 4.496E+04 8.255E+04

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ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (2)

```

      PX(I)      VY(I)      VZ(I)      TX(I)      MY(I)      MZ(I)      PX(C)      VY(C)      VZ(C)      TX(C)      MY(C)      MZ(C)
      X MAXIMUM 2.150E+02-5.889E+02 3.301E+02 1.827E+04-1.421E+04 1.227E+04-5.421E+02 3.049E+02 3.301E+02 1.197E+04-9.844E+03-5.634E+03
      Y MAXIMUM -4.935E+02 1.574E+03 2.660E+02 1.639E+04-6.009E+03 4.436E+04 1.129E+03 1.097E+03 2.660E+02 1.084E+04-7.371E+03 1.315E+04
      Z MAXIMUM -3.738E+02-3.837E+02 5.793E+02-3.176E+04-3.171E+04 2.150E+04 3.393E+02 4.258E+02 5.793E+02-1.753E+04-2.197E+04 9.796E+03
      GRAND TOTAL 1.060E+03 2.298E+03 1.182E+03 6.309E+04 4.491E+04 8.255E+04 1.762E+03 1.828E+03 1.182E+03 3.535E+04 3.649E+04 2.794E+04

```

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (2)

```

      PX(J)      VY(J)      VZ(J)      TX(J)      MY(J)      MZ(J)
      X MAXIMUM -5.889E+02-2.150E+02 3.301E+02 7.533E+03-3.535E+03 7.326E+03
      Y MAXIMUM 1.574E+03 4.935E+02 2.660E+02 5.961E+03-4.416E+03-2.543E+04
      Z MAXIMUM -3.837E+02 3.738E+02 5.793E+02-8.041E+03 6.146E+03-5.595E+03
      GRAND TOTAL 2.298E+03 1.060E+03 1.182E+03 2.070E+04 1.278E+04 3.583E+04

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-303-

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (3)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		6	4	6	6	4	6	6	4	6	5	4
X MAXIMUM	-5.887E+02	-2.150E+02	3.301E+02	7.530E+03	-3.539E+03	7.326E+03	-5.887E+02	-2.150E+02	3.301E+02	7.530E+03	1.041E+04	1.042E+04
Y	11	3	3	3	3	3	11	11	3	3	6	3
Y MAXIMUM	1.574E+03	4.931E+02	2.660E+02	5.957E+03	-4.420E+03	-2.543E+04	1.574E+03	4.931E+02	2.660E+02	5.957E+03	-6.718E+03	-2.867E+04
Z	9	4	5	4	4	4	9	9	4	5	4	4
Z MAXIMUM	-3.836E+02	3.737E+02	5.793E+02	-8.036E+03	6.152E+03	-5.595E+03	-3.836E+02	3.737E+02	5.793E+02	-8.036E+03	2.323E+04	-1.812E+04
GRAND TOTAL	2.298E+03	1.060E+03	1.182E+03	2.069E+04	1.280E+04	3.583E+04	2.298E+03	1.060E+03	1.182E+03	2.069E+04	3.841E+04	6.043E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (4)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		6	6	4	6	5	4	6	6	4	4	4
X MAXIMUM	-5.700E+02	1.385E+02	2.018E+02	7.530E+03	1.041E+04	1.042E+04	-5.700E+02	1.385E+02	2.018E+02	7.530E+03	2.618E+04	2.102E+04
Y	11	5	3	3	3	6	11	11	3	3	3	3
Y MAXIMUM	1.241E+03	2.922E+02	1.820E+02	5.957E+03	-6.718E+03	-2.867E+04	1.241E+03	2.922E+02	1.820E+02	5.957E+03	2.125E+04	-5.322E+04
Z	6	4	4	4	4	5	6	6	4	4	5	4
Z MAXIMUM	3.567E+02	2.193E+02	-3.508E+02	-8.036E+03	2.323E+04	-1.812E+04	3.567E+02	2.193E+02	-3.508E+02	-8.036E+03	4.753E+04	-3.654E+04
GRAND TOTAL	1.897E+03	6.840E+02	6.937E+02	2.069E+04	3.841E+04	6.043E+04	1.897E+03	6.840E+02	6.937E+02	2.069E+04	9.348E+04	1.019E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (5)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		6	6	4	6	4	4	6	6	4	4	4
X MAXIMUM	-5.583E+02	7.472E+01	8.130E+01	7.530E+03	2.618E+04	2.102E+04	-5.583E+02	7.472E+01	8.130E+01	7.530E+03	3.301E+04	2.418E+04
Y	11	11	3	3	3	3	11	11	3	3	3	3
Y MAXIMUM	1.049E+03	-2.457E+02	9.694E+01	5.957E+03	2.125E+04	-5.322E+04	1.049E+03	-2.457E+02	9.694E+01	5.957E+03	2.939E+04	-6.147E+04
Z	6	4	4	4	4	5	6	6	4	4	4	4
Z MAXIMUM	3.494E+02	6.540E+01	-1.413E+02	-8.036E+03	4.753E+04	-3.654E+04	3.494E+02	6.540E+01	-1.413E+02	-8.036E+03	5.739E+04	-4.203E+04
GRAND TOTAL	1.675E+03	3.940E+02	2.787E+02	2.069E+04	9.348E+04	1.019E+05	1.675E+03	3.940E+02	2.787E+02	2.069E+04	1.130E+05	1.186E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (6)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		6	4	6	6	4	4	6	4	6	4	4
X MAXIMUM	-5.466E+02	5.384E+01	-1.114E+02	7.530E+03	3.301E+04	2.418E+04	-5.466E+02	5.384E+01	-1.114E+02	7.530E+03	3.010E+04	2.059E+04
Y	11	11	6	3	3	3	11	11	6	3	3	3
Y MAXIMUM	8.712E+02	-1.055E+02	7.767E+01	5.957E+03	2.939E+04	-6.147E+04	8.712E+02	-1.055E+02	7.767E+01	5.957E+03	2.977E+04	-5.479E+04
Z	6	5	5	4	4	4	6	6	5	4	4	4
Z MAXIMUM	3.421E+02	-1.175E+02	-2.086E+02	-8.036E+03	-5.739E+04	-4.203E+04	3.421E+02	-1.175E+02	-2.086E+02	-8.036E+03	-5.233E+04	-3.580E+04
GRAND TOTAL	1.478E+03	3.272E+02	3.082E+02	2.069E+04	1.130E+05	1.186E+05	1.478E+03	3.272E+02	3.082E+02	2.069E+04	9.907E+04	1.059E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (7)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		6	4	6	6	4	4	6	4	6	4	6
X MAXIMUM	-5.315E+02	1.521E+02	-2.622E+02	7.530E+03	3.010E+04	2.059E+04	-5.315E+02	1.521E+02	-2.622E+02	7.530E+03	1.821E+04	-1.153E+04
Y	11	3	6	3	3	3	11	3	6	3	3	3
Y MAXIMUM	6.513E+02	-3.130E+02	1.828E+02	5.957E+03	2.977E+04	-5.479E+04	6.513E+02	-3.130E+02	1.828E+02	5.957E+03	2.346E+04	-3.395E+04
Z	6	5	5	4	4	4	6	6	5	4	4	3
Z MAXIMUM	3.326E+02	-2.799E+02	-4.728E+02	-8.036E+03	-5.233E+04	-3.580E+04	3.326E+02	-2.799E+02	-4.728E+02	-8.036E+03	-3.165E+04	-2.012E+04
GRAND TOTAL	1.268E+03	7.188E+02	7.750E+02	2.069E+04	9.907E+04	1.059E+05	1.268E+03	7.188E+02	7.750E+02	2.069E+04	5.953E+04	6.238E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (8)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		6	4	6	6	4	4	6	4	6	4	6
X MAXIMUM	-5.315E+02	1.521E+02	-2.622E+02	7.530E+03	1.821E+04	-1.153E+04	-5.315E+02	1.521E+02	-2.622E+02	7.530E+03	-1.476E+04	-7.21E+04
Y	11	3	6	3	3	3	11	3	6	3	3	3
Y MAXIMUM	6.513E+02	-3.130E+02	1.828E+02	5.957E+03	2.346E+04	-3.395E+04	6.513E+02	-3.130E+02	1.828E+02	5.957E+03	1.891E+04	-1.476E+04
Z	6	5	5	4	4	4	6	6	5	4	4	3
Z MAXIMUM	3.326E+02	-2.799E+02	-4.728E+02	-8.036E+03	-5.233E+04	-3.580E+04	3.326E+02	-2.799E+02	-4.728E+02	-8.036E+03	-3.165E+04	-2.012E+04
GRAND TOTAL	1.268E+03	7.188E+02	7.750E+02	2.069E+04	9.907E+04	1.059E+05	1.268E+03	7.188E+02	7.750E+02	2.069E+04	5.953E+04	6.238E+04

7	6	5	5	4	4	3	6	5	5	4	5	7
1	MUM	3.326E+02	-2.799E+02	-4.728E+02	-8.036E+03	-3.165E+04	-2.012E+04	3.326E+02	-2.799E+02	-4.728E+02	-8.036E+03	-1.730E+04
6	TOTAL	1.268E+03	7.188E+02	7.750E+02	2.069E+04	5.953E+04	6.238E+04	1.268E+03	7.188E+02	7.750E+02	2.069E+04	4.855E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (9)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		6	4	6	6	9	6	6	4	6	6	5
X MAXIMUM	-5.160E+02	1.896E+02	-3.195E+02	7.530E+03	-1.476E+04	-7.296E+03	-5.160E+02	1.896E+02	-3.195E+02	7.530E+03	-2.532E+04	9.962E+03
Y	11	3	6	3	3	3	11	3	6	3	6	9
Y MAXIMUM	4.446E+02	-3.879E+02	2.228E+02	5.957E+03	1.891E+04	-1.893E+04	4.446E+02	-3.879E+02	2.228E+02	5.957E+03	1.766E+04	-3.083E+03
Z	6	5	5	4	5	3	6	5	5	4	5	5
Z MAXIMUM	3.229E+02	-3.516E+02	-6.009E+02	-8.036E+03	-1.730E+04	-1.122E+04	3.229E+02	-3.516E+02	-6.009E+02	-8.036E+03	-4.614E+04	2.213E+04
GRAND TOTAL	1.099E+03	9.726E+02	1.001E+03	2.069E+04	4.855E+04	3.683E+04	1.099E+03	9.726E+02	1.001E+03	2.069E+04	7.050E+04	3.504E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (10)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		6	9	9	6	6	5	6	9	9	6	5
X MAXIMUM	-5.160E+02	-3.155E+02	1.304E+03	7.530E+03	-2.532E+04	9.962E+03	-5.160E+02	-3.155E+02	1.304E+03	7.530E+03	-2.499E+04	9.387E+03
Y	11	18	9	3	6	9	11	18	9	3	6	9
Y MAXIMUM	4.446E+02	1.412E+02	4.563E+02	5.957E+03	1.766E+04	-3.083E+03	4.446E+02	1.412E+02	4.563E+02	5.957E+03	1.743E+04	-2.751E+03
Z	6	5	5	4	5	5	6	5	5	4	5	5
Z MAXIMUM	3.229E+02	4.278E+02	1.124E+03	-8.036E+03	-4.614E+04	2.223E+04	3.229E+02	4.278E+02	1.124E+03	-8.036E+03	-4.277E+04	2.094E+04
GRAND TOTAL	1.099E+03	1.002E+03	2.156E+03	2.069E+04	7.050E+04	3.504E+04	1.099E+03	1.002E+03	2.156E+03	2.069E+04	6.533E+04	3.238E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (11)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X		6	9	5	6	5	6	9	9	5	6	9
X MAXIMUM	-5.040E+02	1.229E+03	-2.815E+02	7.530E+03	1.344E+04	2.463E+04	1.125E+03	6.131E+02	-2.815E+02	1.057E+04	-5.000E+03	-1.479E+04
Y	6	9	3	3	6	6	9	6	3	6	6	6
Y MAXIMUM	3.515E+02	4.301E+02	1.811E+02	5.957E+03	-3.080E+03	-1.718E+04	3.937E+02	-3.124E+02	1.811E+02	-7.373E+03	-2.041E+03	-9.672E+03
Z	6	5	5	4	5	5	9	5	5	4	5	9
Z MAXIMUM	3.154E+02	9.452E+02	-6.281E+02	-8.036E+03	2.999E+04	3.699E+04	-8.168E+02	7.220E+02	-6.281E+02	8.940E+03	8.692E+03	1.074E+04
GRAND TOTAL	1.001E+03	1.972E+03	9.377E+02	2.069E+04	4.063E+04	6.281E+04	1.725E+03	1.417E+03	9.377E+02	2.097E+04	1.325E+04	3.169E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (11)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		9	6	5	6	5
X MAXIMUM	1.229E+03	5.040E+02	-2.815E+02	1.167E+04	-1.014E+04	-1.947E+04
Y	9	6	3	6	18	11
Y MAXIMUM	4.301E+02	-3.515E+02	1.811E+02	-8.138E+03	-2.698E+03	8.196E+03
Z	5	6	5	6	5	9
Z MAXIMUM	9.452E+02	-3.154E+02	-6.281E+02	-7.303E+03	-2.262E+04	1.413E+04
GRAND TOTAL	1.972E+03	1.001E+03	9.377E+02	2.187E+04	2.990E+04	3.703E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (12)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		9	6	5	6	5	9	9	6	5	6	9
X MAXIMUM	1.129E+03	-4.633E+02	2.419E+02	1.167E+04	1.014E+04	1.947E+04	1.129E+03	-4.633E+02	2.419E+02	1.167E+04	1.115E+04	1.797E+04
Y	9	6	3	6	18	11	9	6	3	6	3	11
Y MAXIMUM	3.952E+02	3.231E+02	-1.468E+02	-8.137E+03	2.698E+03	-8.196E+03	3.952E+02	3.231E+02	-1.468E+02	-8.137E+03	-2.804E+03	-8.980E+03
Z	5	6	5	6	5	9	5	6	5	6	5	9
Z MAXIMUM	8.993E+02	2.900E+02	5.398E+02	-7.302E+03	2.262E+04	-1.413E+04	8.993E+02	2.900E+02	5.398E+02	-7.302E+03	2.488E+04	-1.305E+04
GRAND TOTAL	1.825E+03	9.049E+02	7.860E+02	2.187E+04	2.990E+04	3.703E+04	1.825E+03	9.049E+02	7.860E+02	2.187E+04	3.254E+04	3.734E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (13)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		9	6	5	6	5	9	9	6	5	6	6

X MAXIMUM	9.663E+02	-3.913E+02	2.029E+02	1.117E+04	1.115E+04	1.766E+04	9.663E+02	-3.913E+02	2.029E+02	1.117E+04	2.305E+04	2.966E+04
Y	9	6	18	6	3	11	9	6	18	6	3	6
Y MAXIMUM	3.381E+02	2.729E+02	-1.061E+02	-7.791E+03	-2.804E+03	-9.083E+03	3.381E+02	2.729E+02	-1.061E+02	-7.791E+03	-8.797E+03	-2.068E+04
Z	5	9	5	6	5	4	5	9	5	6	5	6
Z MAXIMUM	7.915E+02	-2.539E+02	4.527E+02	-6.991E+03	2.488E+04	1.332E+04	7.915E+02	-2.539E+02	4.527E+02	-6.991E+03	5.142E+04	-1.856E+04
GRAND TOTAL	1.573E+03	7.731E+02	6.555E+02	2.128E+04	3.254E+04	3.754E+04	1.573E+03	7.731E+02	6.555E+02	2.128E+04	6.520E+04	5.639E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (14)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	6	5	6	5	6	9	6	5	6	5	6
X MAXIMUM	9.580E+02	-3.913E+02	2.331E+02	8.540E+03	2.305E+04	3.052E+04	9.580E+02	-3.913E+02	2.331E+02	8.540E+03	3.671E+04	5.346E+04
Y	9	6	3	3	3	6	9	6	3	3	3	6
Y MAXIMUM	3.353E+02	2.729E+02	-1.144E+02	7.550E+03	-8.797E+03	-2.128E+04	3.353E+02	2.729E+02	-1.144E+02	7.550E+03	-1.550E+04	-3.728E+04
Z	5	9	5	6	5	6	5	9	5	6	5	6
Z MAXIMUM	7.490E+02	-2.539E+02	5.201E+02	-5.344E+03	5.142E+04	-1.910E+04	7.490E+02	-2.539E+02	5.201E+02	-5.344E+03	8.191E+04	-3.345E+04
GRAND TOTAL	1.542E+03	7.731E+02	7.250E+02	1.841E+04	6.520E+04	5.720E+04	1.542E+03	7.731E+02	7.250E+02	1.841E+04	1.058E+05	9.649E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (15)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	14	6	5	6	9	9	14	6	5	6
X MAXIMUM	6.491E+02	9.207E+01	-5.461E+01	3.851E+03	3.671E+04	5.400E+04	6.491E+02	9.207E+01	-5.461E+01	3.851E+03	3.532E+04	5.318E+04
Y	9	11	12	3	3	6	9	11	12	3	3	6
Y MAXIMUM	2.272E+02	-1.893E+02	-4.308E+01	9.532E+03	1.550E+04	-3.766E+04	2.272E+02	-1.893E+02	-4.308E+01	9.532E+03	-1.455E+04	-3.709E+04
Z	5	9	5	3	5	6	5	9	5	3	5	6
Z MAXIMUM	6.765E+02	-6.684E+01	-5.317E+01	5.651E+03	8.191E+04	-3.379E+04	6.765E+02	-6.684E+01	-5.317E+01	5.651E+03	7.879E+04	-3.328E+04
GRAND TOTAL	1.179E+03	3.049E+02	2.249E+02	1.471E+04	1.058E+05	9.676E+04	1.179E+03	3.049E+02	2.249E+02	1.471E+04	1.012E+05	9.420E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (16)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	9	9	1	5	6	9	9	9	1	5	6
X MAXIMUM	6.434E+02	9.207E+01	9.432E+01	-2.738E+03	3.532E+04	5.331E+04	6.434E+02	9.207E+01	9.432E+01	-2.738E+03	3.545E+04	5.250E+04
Y	9	11	12	3	3	6	9	11	12	3	3	6
Y MAXIMUM	2.252E+02	-1.893E+02	-4.289E+01	1.112E+04	-1.455E+04	3.718E+04	2.252E+02	-1.893E+02	-4.289E+01	1.112E+04	-1.408E+04	3.661E+04
Z	5	9	9	3	5	6	5	9	9	3	5	6
Z MAXIMUM	6.786E+02	-6.684E+01	-6.847E+01	6.595E+03	7.879E+04	-3.337E+04	6.786E+02	-6.684E+01	-6.847E+01	6.595E+03	7.908E+04	-3.285E+04
GRAND TOTAL	1.175E+03	3.049E+02	2.430E+02	1.563E+04	1.012E+05	9.388E+04	1.175E+03	3.049E+02	2.430E+02	1.563E+04	1.018E+05	9.485E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (17)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	6	5	6	5	6	9	6	5	6	5	6
X MAXIMUM	3.746E+02	4.279E+02	-2.684E+02	-5.365E+03	3.545E+04	5.223E+04	3.746E+02	4.279E+02	-2.684E+02	-5.365E+03	1.971E+04	2.714E+04
Y	6	6	3	3	3	6	6	6	3	3	3	11
Y MAXIMUM	1.387E+02	-2.985E+02	1.262E+02	1.239E+04	-1.408E+04	3.642E+04	1.387E+02	-2.985E+02	1.262E+02	1.239E+04	-6.680E+03	2.180E+04
Z	5	6	5	3	5	6	5	6	5	3	5	6
Z MAXIMUM	7.673E+02	-2.678E+02	-5.988E+02	7.342E+03	7.908E+04	-3.268E+04	7.673E+02	-2.678E+02	-5.988E+02	7.342E+03	4.398E+04	-1.698E+04
GRAND TOTAL	1.073E+03	8.260E+02	7.906E+02	2.052E+04	1.018E+05	9.391E+04	1.073E+03	8.260E+02	7.906E+02	2.052E+04	5.840E+04	5.364E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (18)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	6	5	6	5	6	9	6	5	6	9	9
X MAXIMUM	3.821E+02	4.279E+02	-2.374E+02	-7.712E+03	1.971E+04	2.657E+04	3.821E+02	4.279E+02	-2.374E+02	-7.712E+03	6.775E+03	-6.749E+03
Y	6	6	18	3	3	11	6	6	18	3	18	11
Y MAXIMUM	1.433E+02	-2.985E+02	1.258E+02	1.243E+04	-6.680E+03	2.172E+04	1.433E+02	-2.985E+02	1.258E+02	1.243E+04	7.945E+03	3.269E+04
Z	5	6	5	3	5	6	5	6	5	3	5	6
Z MAXIMUM	8.166E+02	-2.678E+02	-5.296E+02	7.368E+03	4.398E+04	-1.663E+04	8.166E+02	-2.678E+02	-5.296E+02	7.368E+03	1.293E+04	7.541
GRAND TOTAL	1.120E+03	8.260E+02	7.158E+02	2.334E+04	5.840E+04	5.255E+04	1.120E+03	8.260E+02	7.158E+02	2.334E+04	2.937E+04	4.135

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (19)

	IX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	M
X		5	6	5	6	9	9	5	6	5	6	5
X	NUM	4.630E+02	5.986E+02	3.833E+02	7.811E+03	6.775E+03	6.275E+03	4.630E+02	5.986E+02	3.833E+02	7.811E+03	1.668E+04
Y		6	6	3	3	18	11	6	6	3	3	11
Y	MAXIMUM	2.506E+02	4.175E+02	1.803E+02	1.127E+04	7.945E+03	3.241E+04	2.506E+02	4.175E+02	1.803E+02	1.127E+04	1.080E+04
Z		5	6	5	3	5	3	5	6	5	3	5
Z	MAXIMUM	1.033E+03	3.746E+02	8.551E+02	6.683E+03	1.293E+04	8.154E+03	1.033E+03	3.746E+02	8.551E+02	6.683E+03	3.721E+04
GRAND TOTAL		1.344E+03	1.173E+03	1.083E+03	2.297E+04	2.937E+04	4.161E+04	1.344E+03	1.173E+03	1.083E+03	2.297E+04	4.885E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (20)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		9	1	7	6	5	6	9	1	7	6	6
X	MAXIMUM	5.643E+02	1.580E+02	4.491E+02	4.789E+03	1.668E+04	3.485E+04	5.643E+02	1.580E+02	4.491E+02	4.789E+03	2.228E+04
Y		9	11	6	3	3	11	9	11	6	3	3
Y	MAXIMUM	1.975E+02	9.125E+02	6.844E+01	8.625E+03	1.080E+04	4.161E+04	1.975E+02	9.125E+02	6.844E+01	8.625E+03	9.255E+03
Z		5	13	7	3	5	6	5	13	7	3	6
Z	MAXIMUM	4.235E+02	1.008E+02	4.401E+02	5.113E+03	3.721E+04	2.181E+04	4.235E+02	1.008E+02	4.401E+02	5.113E+03	3.460E+04
GRAND TOTAL		9.930E+02	1.035E+03	8.571E+02	1.844E+04	4.885E+04	8.793E+04	9.930E+02	1.035E+03	8.571E+02	1.844E+04	6.352E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (21)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		9	1	2	1	7	6	9	1	2	1	6
X	MAXIMUM	3.556E+02	1.527E+02	2.801E+02	2.712E+03	2.228E+04	3.432E+04	3.556E+02	1.527E+02	2.801E+02	2.712E+03	3.185E+04
Y		1	11	18	11	3	3	1	11	18	11	11
Y	MAXIMUM	1.277E+02	4.439E+02	1.237E+02	7.303E+03	9.255E+03	2.744E+04	1.277E+02	4.439E+02	1.237E+02	7.303E+03	8.426E+03
Z		5	3	2	3	5	6	5	3	2	3	6
Z	MAXIMUM	6.180E+02	5.349E+01	1.457E+02	3.710E+03	3.460E+04	2.148E+04	6.180E+02	5.349E+01	1.457E+02	3.710E+03	3.521E+04
GRAND TOTAL		9.690E+02	5.697E+02	4.907E+02	1.338E+04	6.352E+04	7.457E+04	9.690E+02	5.697E+02	4.907E+02	1.338E+04	7.787E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (22)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		9	1	2	1	2	6	9	1	2	1	1
X	MAXIMUM	3.557E+02	1.527E+02	3.020E+02	4.129E+03	3.185E+04	2.951E+04	3.557E+02	1.527E+02	3.020E+02	4.129E+03	4.956E+04
Y		1	11	18	1	3	11	1	11	18	1	11
Y	MAXIMUM	1.267E+02	4.439E+02	1.228E+02	4.589E+03	8.426E+03	3.908E+04	1.267E+02	4.439E+02	1.228E+02	4.589E+03	7.912E+03
Z		5	3	2	3	5	6	5	3	2	3	6
Z	MAXIMUM	6.166E+02	5.349E+01	1.570E+02	2.552E+03	3.521E+04	1.847E+04	6.166E+02	5.349E+01	1.570E+02	2.552E+03	3.828E+04
GRAND TOTAL		9.642E+02	5.697E+02	5.029E+02	9.940E+03	7.787E+04	7.867E+04	9.642E+02	5.697E+02	5.029E+02	9.940E+03	9.734E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (23)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		5	6	2	1	2	1	5	6	2	1	1
X	MAXIMUM	3.595E+02	2.118E+02	2.691E+02	6.294E+03	4.956E+04	2.458E+04	3.595E+02	2.118E+02	2.691E+02	6.294E+03	6.533E+04
Y		6	11	6	1	6	11	6	11	6	1	11
Y	MAXIMUM	1.718E+02	4.300E+02	6.131E+01	6.996E+03	7.912E+03	6.520E+04	1.718E+02	4.300E+02	6.131E+01	6.996E+03	7.626E+03
Z		5	6	7	6	7	6	5	6	7	6	6
Z	MAXIMUM	8.020E+02	1.326E+02	2.252E+02	1.822E+03	3.828E+04	1.533E+04	8.020E+02	1.326E+02	2.252E+02	1.822E+03	3.397E+04
GRAND TOTAL		1.085E+03	6.651E+02	5.914E+02	1.184E+04	9.734E+04	9.471E+04	1.085E+03	6.651E+02	5.914E+02	1.184E+04	9.134E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (24)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		5	6	2	1	2	1	5	6	2	1	1
X	MAXIMUM	3.513E+02	2.118E+02	2.856E+02	9.139E+03	6.533E+04	3.222E+04	3.513E+02	2.118E+02	2.856E+02	9.139E+03	8.208E+04
Y		6	11	6	1	18	11	6	11	6	1	18
Y	MAXIMUM	1.658E+02	4.300E+02	7.606E+01	1.016E+04	7.626E+03	3.968E+04	1.658E+02	4.300E+02	7.606E+01	1.016E+04	9.095E+03
Z		5	6	5	6	2	6	5	6	5	6	1
Z	MAXIMUM	7.837E+02	1.326E+02	2.442E+02	2.474E+03	3.397E+04	7.368E+03	7.837E+02	1.326E+02	2.442E+02	2.474E+03	4.268E+04

GRAND TOTAL 1.069E+03 6.651E+02 6.453E+02 1.688E+04 9.134E+04 7.021E+04 1.069E+03 6.651E+02 6.453E+02 1.688E+04 9.111E+04 6.372E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (25)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		5	6	7	1	2	1	5	6	7	1	2
X MAXIMUM	4.163E+02	-2.719E+02	-4.418E+02	-1.264E+04	-8.208E+04	3.959E+04	4.163E+02	-2.719E+02	-4.418E+02	-1.264E+04	-1.010E+05	4.773E+04
Y		6	11	6	1	18	1	6	11	6	1	18
Y MAXIMUM	2.330E+02	-9.033E+02	1.588E+02	1.405E+04	-9.095E+03	-4.400E+04	2.330E+02	-9.033E+02	1.588E+02	1.405E+04	-9.450E+03	-5.306E+04
Z		5	6	5	1	2	1	5	6	5	1	2
Z MAXIMUM	9.288E+02	1.702E+02	4.360E+02	2.565E+03	-4.268E+04	-8.031E+03	9.288E+02	1.702E+02	4.360E+02	2.565E+03	-5.252E+04	-1.059E+04
GRAND TOTAL	1.303E+03	1.158E+03	1.145E+03	2.179E+04	9.811E+04	6.221E+04	1.303E+03	1.158E+03	1.145E+03	2.179E+04	1.235E+05	9.096E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (26)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		9	1	2	1	2	1	9	1	2	1	2
X MAXIMUM	5.501E+02	1.327E+03	1.289E+03	-1.675E+04	-1.010E+05	4.645E+04	5.501E+02	1.327E+03	1.289E+03	-1.675E+04	-2.543E+04	-3.136E+04
Y		1	1	6	1	6	1	1	1	6	1	18
Y MAXIMUM	3.077E+02	-1.475E+03	-1.269E+02	1.862E+04	9.450E+03	-5.164E+04	3.077E+02	-1.475E+03	-1.269E+02	1.862E+04	4.674E+03	3.486E+04
Z		9	1	2	1	2	1	9	1	2	1	2
Z MAXIMUM	-3.993E+02	-2.692E+02	6.704E+02	3.398E+03	-5.252E+04	-1.077E+04	-3.993E+02	-2.692E+02	6.704E+02	3.398E+03	-1.410E+04	-8.261E+03
GRAND TOTAL	1.181E+03	2.133E+03	1.583E+03	2.634E+04	1.235E+05	8.973E+04	1.181E+03	2.133E+03	1.583E+03	2.634E+04	4.295E+04	6.733E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (27)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		2	1	2	1	2	1	2	1	2	1	2
X MAXIMUM	-4.738E+02	1.300E+03	1.015E+03	-1.395E+04	-2.543E+04	-3.270E+04	-4.738E+02	1.300E+03	1.015E+03	-1.395E+04	3.410E+04	-1.089E+05
Y		1	1	6	1	18	1	1	1	6	1	18
Y MAXIMUM	3.090E+02	-1.445E+03	-6.885E+01	1.550E+04	4.674E+03	3.635E+04	3.090E+02	-1.445E+03	-6.885E+01	1.550E+04	6.676E+03	1.211E+05
Z		9	1	2	1	7	1	9	1	2	1	7
Z MAXIMUM	-2.693E+02	-2.637E+02	5.279E+02	2.830E+03	-1.410E+04	-8.361E+03	-2.693E+02	-2.637E+02	5.279E+02	2.830E+03	1.773E+04	2.209E+04
GRAND TOTAL	9.564E+02	1.981E+03	1.200E+03	2.166E+04	4.295E+04	6.895E+04	9.564E+02	1.981E+03	1.200E+03	2.166E+04	5.248E+04	1.687E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (28)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		2	1	2	1	2	1	2	1	2	1	2
X MAXIMUM	-5.604E+02	1.300E+03	9.701E+02	-4.408E+03	3.410E+04	-1.097E+05	-5.604E+02	1.300E+03	9.701E+02	-4.408E+03	9.097E+04	-1.859E+05
Y		1	1	6	1	18	1	1	1	6	1	18
Y MAXIMUM	3.136E+02	-1.445E+03	-7.234E+01	4.900E+03	6.676E+03	1.220E+05	3.136E+02	-1.445E+03	-7.234E+01	4.900E+03	8.724E+03	2.067E+05
Z		2	1	2	1	2	1	2	1	2	1	2
Z MAXIMUM	-2.914E+02	-2.637E+02	5.044E+02	1.569E+03	1.773E+04	2.226E+04	-2.914E+02	-2.637E+02	5.044E+02	1.569E+03	4.730E+04	3.772E+04
GRAND TOTAL	1.004E+03	1.981E+03	1.161E+03	8.782E+03	5.248E+04	1.699E+05	1.004E+03	1.981E+03	1.161E+03	8.782E+03	1.160E+05	2.823E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (29)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		2	1	2	1	2	1	2	1	2	1	2
X MAXIMUM	-5.269E+02	1.272E+03	4.331E+02	1.183E+04	9.097E+04	-1.856E+05	-5.269E+02	1.272E+03	4.331E+02	1.183E+04	1.164E+05	-2.602E+05
Y		1	1	18	1	18	1	1	1	18	1	6
Y MAXIMUM	3.069E+02	-1.413E+03	-1.086E+02	-1.315E+04	8.724E+03	2.063E+05	3.069E+02	-1.413E+03	-1.086E+02	-1.315E+04	-6.010E+03	2.892E+05
Z		2	1	2	1	2	1	2	1	2	1	2
Z MAXIMUM	-2.740E+02	-2.580E+02	2.252E+02	-2.399E+03	4.730E+04	3.765E+04	-2.740E+02	-2.580E+02	2.252E+02	-2.399E+03	6.050E+04	5.277E+04
GRAND TOTAL	9.071E+02	2.083E+03	5.725E+02	1.927E+04	1.160E+05	2.818E+05	9.071E+02	2.083E+03	5.725E+02	1.927E+04	1.390E+05	3.937E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (30)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		2	1	2	1	2	1	2	1	2	1	2
X MAXIMUM	-5.626E+02	-1.283E+03	3.856E+02	3.442E+04	1.164E+05	-2.581E+05	-5.626E+02	-1.283E+03	3.856E+02	3.442E+04	1.390E+05	-1.859E+05
Y		1	1	18	1	6	1	1	1	18	1	6

Y MAXIMUM 3.055E+02 1.426E+03-1.067E+02-3.826E+04-6.010E+03 2.869E+05 3.055E+02 1.426E+03-1.067E+02-3.826E+04-5.650E+03 2.033E+05
 [MUM -2.925E+02 2.603E+02 2.005E+02-6.982E+03 6.050E+04 5.237E+04-2.925E+02 2.603E+02 2.005E+02-6.982E+03 7.226E+04 3.7 4
 TOTAL 9.358E+02 2.038E+03 5.247E+02 5.248E+04 1.390E+05 3.907E+05 9.358E+02 2.038E+03 5.247E+02 5.248E+04 1.627E+05 2.7 5

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (31)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	1	2	1	2	1	2	1	2	1	2	1
X MAXIMUM	-3.765E+02	-1.178E+03	-2.457E+02	5.024E+04	1.390E+05	-1.792E+05	-3.765E+02	-1.178E+03	-2.457E+02	5.024E+04	1.246E+05	-1.101E+05
Y	1	1	1	1	1	6	1	1	1	1	18	1
Y MAXIMUM	2.894E+02	1.309E+03	7.573E+01	-5.585E+04	-5.650E+03	1.992E+05	2.894E+02	1.309E+03	7.573E+01	-5.585E+04	-6.495E+03	1.224E+05
Z	10	1	5	1	2	1	10	1	5	1	2	1
Z MAXIMUM	3.735E+02	2.390E+02	1.902E+02	-1.019E+04	7.226E+04	3.635E+04	3.735E+02	2.390E+02	1.902E+02	-1.019E+04	6.477E+04	2.234E+04
GRAND TOTAL	8.489E+02	1.786E+03	5.735E+02	7.620E+04	1.627E+05	2.713E+05	8.489E+02	1.786E+03	5.735E+02	7.620E+04	1.423E+05	1.682E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (32)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	1	2	1	2	1	2	1	2	1	2	1
X MAXIMUM	-3.536E+02	-1.178E+03	-2.776E+02	5.967E+04	1.246E+05	-1.053E+05	-3.536E+02	-1.178E+03	-2.776E+02	5.967E+04	1.083E+05	-3.629E+04
Y	1	1	1	1	1	18	1	1	1	1	1	1
Y MAXIMUM	2.816E+02	1.309E+03	1.007E+02	-6.632E+04	-6.495E+03	1.171E+05	2.816E+02	1.309E+03	1.007E+02	-6.632E+04	8.943E+03	4.034E+04
Z	10	1	5	1	2	1	10	1	5	1	2	1
Z MAXIMUM	3.777E+02	2.390E+02	2.143E+02	-1.210E+04	6.477E+04	2.137E+04	3.777E+02	2.390E+02	2.143E+02	-1.210E+04	5.631E+04	7.361E+03
GRAND TOTAL	8.258E+02	1.786E+03	6.059E+02	9.037E+04	1.423E+05	1.610E+05	8.258E+02	1.786E+03	6.059E+02	9.037E+04	1.259E+05	6.378E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (33)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	2	1	2	1	1	1	2	1	2	1
X MAXIMUM	-2.297E+02	-8.145E+02	-7.506E+02	5.260E+04	1.083E+05	-3.095E+04	-2.297E+02	-8.145E+02	-7.506E+02	6.260E+04	6.429E+04	1.679E+04
Y	1	1	1	1	1	1	1	1	1	1	1	1
Y MAXIMUM	2.553E+02	9.054E+02	1.477E+02	-6.958E+04	8.943E+03	3.441E+04	2.553E+02	9.054E+02	1.477E+02	-6.958E+04	1.760E+04	-1.867E+04
Z	10	1	2	1	2	17	10	1	2	1	2	2
Z MAXIMUM	4.690E+02	1.652E+02	-3.903E+02	-1.270E+04	5.631E+04	7.190E+03	4.690E+02	1.652E+02	-3.903E+02	-1.270E+04	3.343E+04	4.579E+03
GRAND TOTAL	8.063E+02	1.284E+03	1.104E+03	9.485E+04	1.259E+05	5.689E+04	8.063E+02	1.284E+03	1.104E+03	9.485E+04	9.206E+04	3.236E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (34)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	1	2	1	2	1	9	1	2	1	2	1
X MAXIMUM	2.650E+02	-8.145E+02	-8.383E+02	6.089E+04	6.429E+04	2.222E+04	2.650E+02	-8.145E+02	-8.383E+02	6.089E+04	1.540E+04	6.973E+04
Y	9	1	1	1	1	1	9	1	1	1	1	1
Y MAXIMUM	9.275E+01	9.054E+02	-1.416E+02	-6.768E+04	1.760E+04	-2.470E+04	9.275E+01	9.054E+02	-1.416E+02	-6.768E+04	9.340E+03	-7.751E+04
Z	9	1	2	1	2	7	9	1	2	1	5	1
Z MAXIMUM	-1.924E+02	1.652E+02	-4.359E+02	-1.235E+04	3.343E+04	4.537E+03	-1.924E+02	1.652E+02	-4.359E+02	-1.235E+04	1.635E+04	-1.414E+04
GRAND TOTAL	6.299E+02	1.284E+03	1.066E+03	9.234E+04	9.206E+04	3.895E+04	6.299E+02	1.284E+03	1.066E+03	9.234E+04	4.809E+04	1.085E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (35)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	2	2	8	1	1	2	2	2	8	2	1	2
X MAXIMUM	4.136E+02	1.050E+03	-1.248E+02	6.089E+04	-6.972E+04	1.540E+04	9.750E+02	5.692E+02	-1.248E+02	-1.299E+04	-8.852E+04	-6.880E+04
Y	1	1	18	1	1	17	1	1	18	1	1	2
Y MAXIMUM	-6.886E+01	9.586E+01	5.677E+01	-6.768E+04	7.750E+04	9.340E+03	9.616E+01	1.179E+02	5.677E+01	-6.723E+03	9.840E+04	-2.308E+03
Z	2	2	17	1	1	5	2	2	17	2	1	2
Z MAXIMUM	2.151E+02	5.462E+02	-3.903E+01	-1.235E+04	1.414E+04	1.635E+04	5.069E+02	2.960E+02	-3.903E+01	-6.756E+03	1.796E+04	-3.577E+04
GRAND TOTAL	6.711E+02	1.259E+03	2.507E+02	9.234E+04	1.085E+05	4.809E+04	1.182E+03	7.971E+02	2.507E+02	1.932E+04	1.341E+05	7.818E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (35)

PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
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		2	9	8	1	1	2
X							
X MAXIMUM	1.118E+03	-1.675E+02	-1.248E+02	-4.866E+04	-6.935E+04	-9.027E+04	
Y	21	1	18	1	1	1	
Y MAXIMUM	8.786E+01	8.939E+01	5.677E+01	5.409E+04	7.709E+04	-1.255E+04	
Z	2	10	17	1	1	2	
Z MAXIMUM	5.814E+02	-1.959E+02	-3.903E+01	9.872E+03	1.407E+04	-4.694E+04	
GRAND TOTAL	1.328E+03	5.217E+02	2.507E+02	7.673E+04	1.079E+05	1.110E+05	

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (36)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		2	1	2	1	2	1	2	1	2	1	2
X MAXIMUM	1.136E+03	5.957E+02	5.593E+02	-4.867E+04	-9.027E+04	6.934E+04	1.136E+03	5.957E+02	5.593E+02	-4.867E+04	-7.269E+04	5.061E+04
Y	18	1	21	1	1	1	18	1	21	1	1	1
Y MAXIMUM	1.200E+02	-6.622E+02	8.523E+01	5.410E+04	-1.255E+04	-7.708E+04	1.200E+02	-6.622E+02	8.523E+01	5.410E+04	-1.489E+04	-5.626E+04
Z	2	1	2	1	2	2	2	1	2	1	2	1
Z MAXIMUM	5.905E+02	-1.208E+02	2.908E+02	9.874E+03	-4.694E+04	-1.407E+04	5.905E+02	-1.208E+02	2.908E+02	9.874E+03	-3.779E+04	-1.027E+04
GRAND TOTAL	1.421E+03	9.275E+02	6.710E+02	7.674E+04	1.110E+05	1.079E+05	1.421E+03	9.275E+02	6.710E+02	7.674E+04	9.400E+04	8.053E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (37)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		2	1	2	1	2	1	2	1	2	1	1
X MAXIMUM	1.145E+03	8.358E+02	7.419E+02	-4.868E+04	-7.269E+04	5.060E+04	1.145E+03	8.358E+02	7.419E+02	-4.868E+04	-1.858E+04	-2.295E+04
Y	18	1	21	1	1	1	18	1	21	1	1	1
Y MAXIMUM	1.834E+02	-9.291E+02	8.858E+01	5.411E+04	-1.489E+04	-5.625E+04	1.834E+02	-9.291E+02	8.858E+01	5.411E+04	-2.066E+04	2.551E+04
Z	2	1	2	1	2	2	2	1	2	1	10	2
Z MAXIMUM	5.951E+02	-1.696E+02	3.857E+02	9.876E+03	-3.779E+04	-1.027E+04	5.951E+02	-1.696E+02	3.857E+02	9.876E+03	1.222E+04	7.614E+03
GRAND TOTAL	1.496E+03	1.297E+03	8.855E+02	7.675E+04	9.400E+04	8.052E+04	1.496E+03	1.297E+03	8.855E+02	7.675E+04	4.205E+04	4.632E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (38)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		2	1	2	1	1	1	2	1	2	2	1
X MAXIMUM	1.167E+03	1.131E+03	9.916E+02	-4.868E+04	1.858E+04	-2.295E+04	1.167E+03	1.131E+03	9.916E+02	-4.868E+04	3.525E+04	-7.158E+04
Y	18	1	21	1	1	1	18	1	21	1	1	1
Y MAXIMUM	3.483E+02	-1.257E+03	-1.103E+02	5.411E+04	-2.066E+04	2.551E+04	3.483E+02	-1.257E+03	-1.103E+02	5.411E+04	-2.219E+04	7.957E+04
Z	2	1	2	1	10	2	2	1	2	1	2	1
Z MAXIMUM	6.067E+02	-2.294E+02	5.156E+02	9.876E+03	1.222E+04	7.615E+03	6.067E+02	-2.294E+02	5.156E+02	9.876E+03	1.833E+04	1.452E+04
GRAND TOTAL	1.752E+03	1.747E+03	1.294E+03	7.675E+04	4.205E+04	4.632E+04	1.752E+03	1.747E+03	1.294E+03	7.675E+04	5.053E+04	1.114E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (39)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X		2	1	2	1	2	1	2	1	2	2	1
X MAXIMUM	1.167E+03	-1.131E+03	-9.917E+02	-4.868E+04	-3.525E+04	7.158E+04	8.819E+02	-8.580E+02	-9.917E+02	-5.044E+04	-4.404E+04	1.086E+05
Y	18	1	21	1	1	1	1	1	21	1	1	1
Y MAXIMUM	3.483E+02	1.257E+03	1.103E+02	5.411E+04	2.219E+04	-7.957E+04	8.236E+02	9.537E+02	1.103E+02	5.442E+04	-2.144E+04	-1.208E+05
Z	2	1	2	1	2	2	2	1	2	2	2	1
Z MAXIMUM	6.067E+02	2.294E+02	-5.156E+02	9.875E+03	-1.833E+04	-1.452E+04	4.586E+02	-3.994E+02	-5.156E+02	-2.623E+04	-2.290E+04	-2.204E+04
GRAND TOTAL	1.752E+03	1.747E+03	1.294E+03	7.674E+04	5.053E+04	1.114E+05	1.758E+03	1.743E+03	1.294E+03	9.468E+04	5.976E+04	1.642E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (39)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		1	2	2	2	1
X MAXIMUM	-1.131E+03	-1.167E+03	-9.917E+02	-7.988E+04	4.723E+04	1.262E+05
Y	1	18	21	1	1	1
Y MAXIMUM	1.257E+03	-3.483E+02	1.103E+02	2.380E+04	-5.250E+04	-1.403E+05
Z	1	2	2	2	2	1
Z MAXIMUM	2.294E+02	-6.067E+02	-5.156E+02	-4.153E+04	-1.406E+04	-2.560E+04
GRAND TOTAL	1.747E+03	1.752E+03	1.294E+03	1.001E+05	8.087E+04	1.962E+05

EL TYPE (3/D PIPE) / / / ELEMENT NUMBER (40)

	(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)	
X		1	2	2	2	1	1	1	2	2	1	1	
X MAXIMUM		-1.131E+03	-5.577E+02	1.426E+03	-7.988E+04	1.039E+05	-8.575E+04	-1.131E+03	-5.577E+02	1.426E+03	-7.988E+04	1.039E+05	-8.575E+04
Y		1	17	18	1	1	1	1	17	18	1	1	
Y MAXIMUM		1.257E+03	9.889E+01	3.474E+02	2.379E+04	-1.155E+05	9.532E+04	1.257E+03	9.889E+01	3.474E+02	2.379E+04	-1.155E+05	9.532E+04
Z		1	2	2	2	1	1	1	2	2	1	1	
Z MAXIMUM		2.294E+02	-2.900E+02	7.415E+02	-4.154E+04	-2.108E+04	1.740E+04	2.294E+02	-2.900E+02	7.415E+02	-4.154E+04	-2.108E+04	1.740E+04
GRAND TOTAL		1.747E+03	9.291E+02	1.972E+03	1.001E+05	1.657E+05	1.326E+05	1.747E+03	9.291E+02	1.972E+03	1.001E+05	1.657E+05	1.326E+05

Solution 6(c)

Interspatial/Intermodal Combination

Cluster Factor = 0.0

NODE NUM	MODE NUMBER	X- TRANSLATION	Y- TRANSLATION	Z- TRANSLATION	X- ROTATION	Y- ROTATION	Z- ROTATION
1	TOTAL..	1.07562E-16	2.09226E-16	8.89517E-17	7.47029E-15	4.38033E-15	5.58921E-15
2	TOTAL..	3.00093E-06	5.79674E-06	4.58624E-07	3.56947E-07	2.09512E-07	3.52404E-07
3	TOTAL..	5.10482E-03	1.94566E-03	2.46186E-03	5.51451E-05	5.63371E-05	5.10854E-05
4	TOTAL..	5.14824E-03	1.97130E-03	4.50878E-03	5.13089E-05	5.57695E-05	4.89813E-05
5	TOTAL..	8.62401E-03	2.01658E-03	8.00478E-03	3.12718E-05	5.53084E-05	2.89348E-05
6	TOTAL..	9.74116E-03	2.05652E-03	9.26591E-03	8.78591E-06	5.59022E-05	5.06868E-06
7	TOTAL..	8.71913E-03	2.08409E-03	8.33208E-03	2.67006E-05	5.71030E-05	2.81305E-05
8	TOTAL..	6.21097E-03	2.10634E-03	5.86444E-03	4.46511E-05	5.89079E-05	4.52103E-05
9	TOTAL..	4.09580E-03	2.12257E-03	3.54464E-03	5.16233E-05	6.05538E-05	5.09349E-05
10	TOTAL..	2.76907E-03	2.13510E-03	1.41829E-03	5.29050E-05	6.24634E-05	5.18679E-05
11	TOTAL..	2.77895E-03	2.13589E-03	1.35928E-03	5.27947E-05	6.25909E-05	5.18132E-05
12	TOTAL..	5.01843E-03	3.51576E-03	4.75138E-03	4.60098E-05	5.57834E-05	5.82580E-05
13	TOTAL..	5.05726E-03	3.69662E-03	4.95012E-03	4.58121E-05	5.53596E-05	5.81586E-05
14	TOTAL..	5.75831E-03	6.23220E-03	7.57386E-03	4.35107E-05	4.52987E-05	5.27518E-05
15	TOTAL..	6.47650E-03	8.17872E-03	9.48063E-03	4.31264E-05	2.75777E-05	3.98145E-05
16	TOTAL..	6.85194E-03	8.81659E-03	1.01622E-02	4.54014E-05	1.18855E-05	2.47486E-05
17	TOTAL..	6.71344E-03	8.11842E-03	9.74530E-03	4.94227E-05	2.32128E-05	1.70486E-05
18	TOTAL..	5.93106E-03	6.08583E-03	8.36712E-03	5.22752E-05	3.95060E-05	2.27128E-05
19	TOTAL..	4.91424E-03	3.33617E-03	6.64337E-03	5.05768E-05	4.75660E-05	2.83053E-05
20	TOTAL..	4.34079E-03	7.95223E-04	5.09861E-03	4.29686E-05	4.52289E-05	2.87219E-05

21 TOTAL..	4.85937E-03	2.33955E-03	4.34065E-03	3.19048E-05	5.49042E-05	2.64667E-05
22 TOTAL..	5.55944E-03	5.85761E-03	4.03670E-03	1.96082E-05	2.20007E-05	2.41493E-05
23 TOTAL..	5.75701E-03	4.39653E-03	3.86336E-03	1.19192E-05	1.60175E-05	2.38458E-05
24 TOTAL..	5.08768E-03	3.69584E-03	3.66778E-03	1.95571E-05	2.99516E-05	2.78014E-05
25 TOTAL..	4.17357E-03	2.19720E-03	3.56223E-03	2.75744E-05	4.98568E-05	3.48939E-05
26 TOTAL..	5.11678E-03	1.30865E-03	3.62642E-03	3.24729E-05	7.24871E-05	4.34678E-05
27 TOTAL..	9.34024E-03	3.43461E-03	3.84626E-03	2.86776E-05	8.76567E-05	5.11303E-05
28 TOTAL..	1.44389E-02	4.79818E-03	3.96212E-03	2.40352E-06	8.58673E-05	5.63032E-05
29 TOTAL..	1.90641E-02	5.56885E-03	3.87729E-03	5.17981E-05	6.87814E-05	6.05403E-05
30 TOTAL..	2.22183E-02	1.98640E-03	3.64850E-03	1.31507E-04	4.24689E-05	6.53876E-05
31 TOTAL..	2.35424E-02	1.29707E-02	3.37384E-03	2.11890E-04	2.04048E-05	6.68412E-05
32 TOTAL..	2.27903E-02	2.78292E-02	3.13292E-03	2.68214E-04	3.76458E-05	6.04159E-05
33 TOTAL..	2.03478E-02	4.47570E-02	3.36387E-03	5.02257E-04	6.48238E-05	4.54238E-05
34 TOTAL..	1.66493E-02	6.19368E-02	4.83283E-03	3.18050E-04	8.57496E-05	2.44814E-05
35 TOTAL..	1.25781E-02	7.78973E-02	7.55126E-03	5.19547E-04	9.56214E-05	2.25496E-05
36 TOTAL..	8.01878E-03	6.88899E-02	1.50044E-02	2.39781E-04	5.36687E-05	2.77595E-04
37 TOTAL..	7.51034E-03	5.79605E-02	1.33953E-02	2.32686E-04	6.49111E-05	2.92430E-04
38 TOTAL..	6.08970E-03	2.62131E-02	7.79307E-03	2.05277E-04	8.13313E-05	3.10684E-04
39 TOTAL..	5.65825E-03	1.08661E-02	5.27177E-03	1.87129E-04	7.90771E-05	5.04587E-04
40 TOTAL..	1.98602E-06	1.75110E-06	9.08931E-07	1.52797E-06	9.74627E-07	1.65136E-06
TOTAL..	1.88190E-06	1.73536E-06	8.62915E-07	1.31806E-06	9.64984E-07	1.63898E-06

TOTAL..	0.	0.	0.	0.	0.	0.
43 TOTAL..	0.	0.	0.	0.	0.	0.
44 TOTAL..	0.	0.	0.	0.	0.	0.
45 TOTAL..	0.	0.	0.	0.	0.	0.
46 TOTAL..	0.	0.	0.	0.	0.	0.
47 TOTAL..	0.	0.	0.	0.	0.	0.
48 TOTAL..	0.	0.	0.	0.	0.	0.
49 TOTAL..	0.	0.	0.	0.	0.	0.
50 TOTAL..	0.	0.	0.	0.	0.	0.
51 TOTAL..	0.	0.	0.	0.	0.	0.
52 TOTAL..	0.	0.	0.	0.	0.	0.
53 TOTAL..	0.	0.	0.	0.	0.	0.
54 TOTAL..	0.	0.	0.	0.	0.	0.
55 TOTAL..	0.	0.	0.	0.	0.	0.
56 TOTAL..	0.	0.	0.	0.	0.	0.
57 TOTAL..	0.	0.	0.	0.	0.	0.
58 TOTAL..	0.	0.	0.	0.	0.	0.
59 TOTAL..	0.	0.	0.	0.	0.	0.
60 TOTAL..	0.	0.	0.	0.	0.	0.

RESPONSE SPECTRUM STRESS COMPONENTS (KIND = 2)

OR EACH ELEMENT, THE FOLLOWING INFORMATION IS PRINTED:

1. FOR EACH EARTH QUAKE DIRECTION; THE NUMBER OF THE MODE WITH THE LARGEST STRESS.
 2. THE VALUE OF THAT STRESS.
 3. IF REQUESTED; THE MODE BY MODE STRESSES FOR EACH EARTH QUAKE DIRECTION.
 4. THE RESULTANT FOR EACH EARTH QUAKE DIRECTION.
 5. THE GRAND TOTAL OF THE THREE EARTH QUAKE DIRECTIONS.
- (NOTE: THE X, Y, OR Z REFERS TO THE EARTH QUAKE DIRECTION.)

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (1)

	BDRY-F	BDRY-M	
X			6
X MAXIMUM	3.501E+02	1.291E+04	9
Y			3
Y MAXIMUM	2.660E+02	4.625E+04	11
Z			5
Z MAXIMUM	5.795E+02	2.187E+04	3
GRAND TOTAL	1.076E+03	7.470E+04	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (2)

	BDRY-F	BDRY-M	
X			6
X MAXIMUM	-5.887E+02	-1.453E+04	5
Y			11
Y MAXIMUM	1.574E+03	-6.541E+03	3
Z			9
Z MAXIMUM	-3.836E+02	-5.242E+04	5
GRAND TOTAL	2.092E+03	4.380E+04	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (3)

	BDRY-F	BDRY-M	
X			4
X MAXIMUM	-2.150E+02	-1.826E+04	4
Y			3
Y MAXIMUM	4.931E+02	-1.638E+04	3
Z			4
Z MAXIMUM	3.737E+02	3.174E+04	4
GRAND TOTAL	8.895E+02	5.589E+04	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (4)

	BDRY-F	BDRY-M	
X			9
X MAXIMUM	1.458E+03	0.	0
Y			9
Y MAXIMUM	5.103E+02	0.	0
Z			5
Z MAXIMUM	1.725E+03	0.	0
GRAND TOTAL	2.769E+03	0.	

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (5)

	BDRY-F	BDRY-M	
X			9
X MUM	-4.539E+02	0.	0
Y			11
Y MUM	-3.515E+02	0.	0
Z			5
			0

GRAND TOTAL 1.418E+03 0.

ELI TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (6)

Y=F BDRY-M
X 9 0
X MAXIMUM 4.699E+02 0.
Y 6 0
Y MAXIMUM -2.034E+02 0.
Z 7 0
Z MAXIMUM 4.188E+02 0.
GRAND TOTAL 1.085E+03 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (7)

BDRY-F BDRY-M
X 6 0
X MAXIMUM -6.125E+02 0.
Y 11 0
Y MAXIMUM 1.079E+03 0.
Z 6 0
Z MAXIMUM 3.853E+02 0.
GRAND TOTAL 1.590E+03 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (8)

BDRY-F BDRY-M
X 5 0
X MAXIMUM 4.618E+02 0.
Y 6 0
Y MAXIMUM 1.935E+02 0.
Z 5 0
Z MAXIMUM 1.030E+03 0.
GRAND TOTAL 1.275E+03 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (9)

BDRY-F BDRY-M
X 2 0
X MAXIMUM 1.572E+03 0.
Y 6 0
Y MAXIMUM -3.466E+02 0.
Z 5 0
Z MAXIMUM -9.346E+02 0.
GRAND TOTAL 2.503E+03 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (10)

BDRY-F BDRY-M
X 1 0
X MAXIMUM 1.466E+03 0.
Y 1 0
Y MAXIMUM -1.630E+03 0.
Z 1 0
Z MAXIMUM -2.974E+02 0.
GRAND TOTAL 2.617E+03 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (11)

BDRY-F BDRY-M
X 7 0
X MAXIMUM 5.194E+02 0.

Y 5 0
Y MAXIMUM 2.935E+02 0.
Z 5 0
Z MAXIMUM 8.883E+02 0.
GRAND TOTAL 1.632E+03 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (12)

BDRY-F BDRY-M
X 1 0
X MAXIMUM -2.555E+03 0.
Y 1 0
Y MAXIMUM 2.840E+03 0.
Z 1 0
Z MAXIMUM 5.183E+02 0.
GRAND TOTAL 3.973E+03 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (13)

BDRY-F BDRY-M
X 1 0
X MAXIMUM 3.794E+02 0.
Y 1 0
Y MAXIMUM -4.217E+02 0.
Z 5 0
Z MAXIMUM -6.327E+02 0.
GRAND TOTAL 1.306E+03 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (14)

BDRY-F BDRY-M
X 2 0
X MAXIMUM 1.427E+03 0.
Y 18 0
Y MAXIMUM 3.475E+02 0.
Z 2 0
Z MAXIMUM 7.417E+02 0.
GRAND TOTAL 1.879E+03 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (15)

BDRY-F BDRY-M
X 1 0
X MAXIMUM -1.133E+03 0.
Y 1 0
Y MAXIMUM 1.259E+03 0.
Z 1 0
Z MAXIMUM 2.298E+02 0.
GRAND TOTAL 1.735E+03 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (16)

BDRY-F BDRY-M
X 2 0
X MAXIMUM 5.579E+02 0.
Y 17 0
Y MAXIMUM -9.892E+01 0.
Z 2 0
Z MAXIMUM 2.901E+02 0.
GRAND TOTAL 8.614E+02 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (17)

BDRY-F BDRY-M
 X MUM 0. 0 1
 Y MUM 0. 0 1
 Z MUM 0. 0 1
 Z MAXIMUM 0. 1.740E+04
 GRAND TOTAL 0. 1.320E+05

ELEMENT TYPE (8 0 0 N D A R Y) / / / ELEMENT NUMBER (18)

BDRY-F BDRY-M
 X MUM 0. 0 2
 Y MUM 0. 0 1
 Z MUM 0. 0 2
 Z MAXIMUM 0. -4.126E+04
 GRAND TOTAL 0. 9.650E+04

ELEMENT TYPE (8 0 0 N D A R Y) / / / ELEMENT NUMBER (19)

BDRY-F BDRY-M
 X MUM 0. 0 1
 Y MUM 0. 0 1
 Z MUM 0. 0 1
 Z MAXIMUM 0. 2.109E+04
 GRAND TOTAL 0. 1.650E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (1)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	4	6	6	6	4	5	9	4	6	6	4	5
X MAXIMUM	2.150E+02	-5.887E+02	3.301E+02	1.826E+04	-1.453E+04	1.291E+04	2.150E+02	-5.887E+02	3.301E+02	1.826E+04	-1.422E+04	1.227E+04
Y	3	11	3	3	3	3	11	3	11	3	5	11
Y MAXIMUM	-4.931E+02	1.574E+03	2.660E+02	1.638E+04	-6.341E+03	4.625E+04	-4.931E+02	1.574E+03	2.660E+02	1.638E+04	-6.022E+03	4.436E+04
Z	4	9	5	4	5	3	4	9	5	4	5	3
Z MAXIMUM	-3.737E+02	-3.836E+02	5.793E+02	-3.174E+04	-3.242E+04	2.187E+04	-3.737E+02	-3.836E+02	5.793E+02	-3.174E+04	-3.173E+04	2.150E+04
GRAND TOTAL	8.895E+02	2.092E+03	1.076E+03	5.589E+04	4.380E+04	7.470E+04	8.895E+02	2.092E+03	1.076E+03	5.589E+04	4.259E+04	7.250E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (2)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	4	6	6	6	4	5	9	6	9	6	5	4
X MAXIMUM	2.150E+02	-5.889E+02	3.301E+02	1.827E+04	-1.421E+04	1.227E+04	-5.421E+02	3.049E+02	3.301E+02	1.197E+04	-9.848E+03	-5.634E+03
Y	3	11	3	3	3	3	11	11	3	5	3	3
Y MAXIMUM	-4.935E+02	1.574E+03	2.660E+02	1.639E+04	-6.009E+03	4.436E+04	1.129E+03	1.097E+03	2.660E+02	1.084E+04	-7.371E+03	1.315E+04
Z	4	9	5	4	5	3	6	3	5	4	5	4
Z MAXIMUM	-3.738E+02	-3.837E+02	5.793E+02	-3.176E+04	-3.171E+04	2.150E+04	3.393E+02	4.258E+02	5.793E+02	-1.753E+04	-2.197E+04	9.796E+03
GRAND TOTAL	8.896E+02	2.092E+03	1.076E+03	5.592E+04	4.255E+04	7.250E+04	1.594E+03	1.621E+03	1.076E+03	2.956E+04	3.379E+04	2.374E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (2)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	6	4	6	6	6	4
X MAXIMUM	-5.889E+02	-2.150E+02	3.301E+02	7.533E+03	-3.535E+03	7.326E+03
Y	11	3	3	3	3	11
Y MAXIMUM	1.574E+03	4.935E+02	2.660E+02	5.961E+03	-4.416E+03	-2.543E+04
Z	9	4	5	4	4	3
Z MAXIMUM	-3.837E+02	3.738E+02	5.793E+02	-8.041E+03	6.146E+03	-5.595E+03
GRAND TOTAL	2.092E+03	8.896E+02	1.076E+03	1.736E+04	1.038E+04	3.243E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (3)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	6	6	4	6	6	4	6	6	4	6	5	4
X MAXIMUM	-5.887E+02	-2.150E+02	3.301E+02	7.530E+03	-3.539E+03	1.326E+03	-5.887E+02	-2.150E+02	3.301E+02	7.530E+03	1.041E+04	1.042E+04
Y	11	3	3	3	3	3	11	11	3	3	6	3
Y MAXIMUM	1.574E+03	4.931E+02	2.660E+02	5.957E+03	-4.420E+03	-2.543E+04	1.574E+03	4.931E+02	2.660E+02	5.957E+03	-6.718E+03	-2.867E+04
Z	9	4	5	4	4	4	9	9	4	5	5	4
Z MAXIMUM	-3.836E+02	5.737E+02	5.793E+02	-8.036E+03	6.152E+03	-5.595E+03	-3.836E+02	5.737E+02	5.793E+02	-8.036E+03	2.323E+04	-1.812E+04
GRAND TOTAL	2.092E+03	8.895E+02	1.076E+03	1.735E+04	1.039E+04	3.203E+04	2.092E+03	8.895E+02	1.076E+03	1.735E+04	5.579E+04	5.166E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (4)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	6	6	4	6	6	5	6	6	4	6	4	4
X MAXIMUM	-5.700E+02	1.385E+02	2.018E+02	7.530E+03	1.041E+04	1.042E+04	-5.700E+02	1.385E+02	2.018E+02	7.530E+03	2.618E+04	2.102E+04
Y	11	3	3	3	3	6	11	11	3	3	3	3
Y MAXIMUM	1.241E+03	2.922E+02	1.820E+02	5.957E+03	-6.718E+03	-2.867E+04	1.241E+03	2.922E+02	1.820E+02	5.957E+03	2.125E+04	-5.322E+04
Z	6	4	4	4	4	5	6	6	4	4	5	4
Z MAXIMUM	3.567E+02	2.193E+02	-3.508E+02	-8.036E+03	2.323E+04	-1.812E+04	3.567E+02	2.193E+02	-3.508E+02	-8.036E+03	4.753E+04	-3.654E+04
GRAND TOTAL	1.745E+03	5.882E+02	6.142E+02	1.735E+04	3.579E+04	5.166E+04	1.745E+03	5.882E+02	6.142E+02	1.735E+04	8.542E+04	8.571E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (5)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	6	6	4	6	6	4	6	6	4	6	4	4
X MAXIMUM	-5.583E+02	7.472E+01	8.130E+01	7.530E+03	2.618E+04	2.102E+04	-5.583E+02	7.472E+01	8.130E+01	7.530E+03	3.301E+04	2.418E+04
Y	11	11	3	3	3	3	11	11	3	3	3	3
Y MAXIMUM	1.049E+03	-2.457E+02	9.694E+01	5.957E+03	2.125E+04	-5.322E+04	1.049E+03	-2.457E+02	9.694E+01	5.957E+03	2.939E+04	-6.147E+04
Z	6	4	4	4	4	5	6	6	4	4	4	4
Z MAXIMUM	3.494E+02	6.540E+01	-1.413E+02	-8.036E+03	4.753E+04	-3.654E+04	3.494E+02	6.540E+01	-1.413E+02	-8.036E+03	-5.739E+04	-4.203E+04
GRAND TOTAL	1.554E+03	3.417E+02	2.296E+02	1.735E+04	8.542E+04	8.571E+04	1.554E+03	3.417E+02	2.296E+02	1.735E+04	1.010E+05	1.004E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (6)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	6	6	4	6	6	4	6	6	4	6	4	4
X MAXIMUM	-5.466E+02	5.384E+01	-1.114E+02	7.530E+03	3.301E+04	2.418E+04	-5.466E+02	5.384E+01	-1.114E+02	7.530E+03	3.010E+04	2.059E+04
Y	11	11	6	3	3	3	11	11	6	3	3	3
Y MAXIMUM	8.712E+02	-1.055E+02	7.767E+01	5.957E+03	2.939E+04	-6.147E+04	8.712E+02	-1.055E+02	7.767E+01	5.957E+03	2.977E+04	-5.479E+04
Z	6	5	5	4	4	5	6	6	5	4	4	4
Z MAXIMUM	3.421E+02	-1.175E+02	-2.086E+02	-8.036E+03	-5.739E+04	-4.203E+04	3.421E+02	-1.175E+02	-2.086E+02	-8.036E+03	-5.233E+04	-3.580E+04
GRAND TOTAL	1.385E+03	2.733E+02	3.002E+02	1.735E+04	1.010E+05	1.004E+05	1.385E+03	2.733E+02	3.002E+02	1.735E+04	8.633E+04	9.001E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (7)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	6	6	4	6	6	4	6	6	4	6	4	6
X MAXIMUM	-5.315E+02	1.521E+02	-2.622E+02	7.530E+03	3.010E+04	2.059E+04	-5.315E+02	1.521E+02	-2.622E+02	7.530E+03	1.821E+04	-1.153E+04
Y	11	3	6	3	3	3	11	11	3	6	3	3
Y MAXIMUM	6.513E+02	-3.130E+02	1.828E+02	5.957E+03	2.977E+04	-5.479E+04	6.513E+02	-3.130E+02	1.828E+02	5.957E+03	2.346E+04	-3.395E+04
Z	6	5	5	4	4	5	6	6	5	4	4	3
Z MAXIMUM	3.326E+02	-2.799E+02	-4.728E+02	-8.036E+03	-5.233E+04	-3.580E+04	3.326E+02	-2.799E+02	-4.728E+02	-8.036E+03	-3.165E+04	-2.012E+04
GRAND TOTAL	1.193E+03	6.134E+02	7.402E+02	1.735E+04	8.633E+04	9.001E+04	1.193E+03	6.134E+02	7.402E+02	1.735E+04	4.948E+04	5.238E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (8)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	6	6	4	6	6	4	6	6	4	6	9	6
X MAXIMUM	-5.315E+02	1.521E+02	-2.622E+02	7.530E+03	1.821E+04	-1.153E+04	-5.315E+02	1.521E+02	-2.622E+02	7.530E+03	-1.476E+04	-7.03
Y	11	3	6	3	3	3	11	11	3	6	3	3
Y MAXIMUM	6.513E+02	-3.130E+02	1.828E+02	5.957E+03	2.346E+04	-3.395E+04	6.513E+02	-3.130E+02	1.828E+02	5.957E+03	1.891E+04	-1.893E+04

Z MAXIMUM 3.526E+02-2.799E+02-4.728E+02-8.036E+03-3.165E+04-2.012E+04 3.526E+02-2.799E+02-4.728E+02-8.036E+03-1.730E+04-1.122E+04
G TOTAL 1.193E+03 8.134E+02 7.402E+02 1.735E+04 4.948E+04 5.238E+04 1.193E+03 6.134E+02 7.402E+02 1.735E+04 4.308E+04 3. 64

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (9)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	6	6	4	6	6	9	6	6	4	6	6	5
X MAXIMUM	-5.160E+02	1.896E+02	-3.195E+02	7.530E+03	-1.476E+04	-7.296E+03	-5.160E+02	1.896E+02	-3.195E+02	7.530E+03	-2.532E+04	9.962E+03
Y	11	3	6	3	5	3	11	3	6	3	6	9
Y MAXIMUM	4.446E+02	-3.879E+02	2.228E+02	5.957E+03	1.891E+04	-1.893E+04	4.446E+02	-3.879E+02	2.228E+02	5.957E+03	1.766E+04	-3.083E+03
Z	6	5	5	5	4	5	6	5	5	5	5	5
Z MAXIMUM	3.229E+02	-3.516E+02	-6.009E+02	-8.036E+03	-1.730E+04	-1.122E+04	3.229E+02	-3.516E+02	-6.009E+02	-8.036E+03	-4.614E+04	2.223E+04
GRAND TOTAL	1.037E+03	8.272E+02	9.508E+02	1.735E+04	4.308E+04	3.083E+04	1.037E+03	8.272E+02	9.508E+02	1.735E+04	6.977E+04	3.335E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (10)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	6	6	9	9	6	6	5	6	9	9	6	5
X MAXIMUM	-5.160E+02	-3.155E+02	1.304E+03	7.530E+03	-2.532E+04	9.962E+03	-5.160E+02	-3.155E+02	1.304E+03	7.530E+03	-2.499E+04	9.387E+03
Y	11	18	9	3	6	9	11	18	9	3	6	9
Y MAXIMUM	4.446E+02	1.412E+02	4.563E+02	5.957E+03	1.766E+04	-3.083E+03	4.446E+02	1.412E+02	4.563E+02	5.957E+03	1.743E+04	-2.751E+03
Z	6	5	5	5	4	5	6	5	5	5	5	5
Z MAXIMUM	3.229E+02	4.278E+02	1.124E+03	-8.036E+03	-4.614E+04	2.223E+04	3.229E+02	4.278E+02	1.124E+03	-8.036E+03	-4.277E+04	2.094E+04
GRAND TOTAL	1.037E+03	8.622E+02	2.131E+03	1.735E+04	6.977E+04	3.335E+04	1.037E+03	8.622E+02	2.131E+03	1.735E+04	6.468E+04	3.110E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (11)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	6	9	5	6	5	5	6	9	5	6	4	9
X MAXIMUM	-5.040E+02	1.229E+03	-2.815E+02	7.530E+03	1.344E+04	2.463E+04	1.125E+03	6.131E+02	-2.815E+02	1.057E+04	-5.000E+03	-1.479E+04
Y	6	9	3	3	6	6	6	9	3	6	6	6
Y MAXIMUM	3.515E+02	4.301E+02	1.811E+02	5.957E+03	-3.080E+03	-1.716E+04	3.937E+02	-3.124E+02	1.811E+02	-7.373E+03	-2.041E+03	-9.672E+03
Z	6	5	5	5	4	5	6	5	5	5	4	9
Z MAXIMUM	3.154E+02	9.452E+02	-6.281E+02	-8.036E+03	2.999E+04	3.699E+04	-8.168E+02	7.220E+02	-6.281E+02	8.940E+03	8.692E+03	1.074E+04
GRAND TOTAL	9.457E+02	1.944E+03	8.500E+02	1.735E+04	3.819E+04	6.076E+04	1.681E+03	1.359E+03	8.500E+02	1.965E+04	1.277E+04	2.987E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (11)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	6	5	6	5	9
X MAXIMUM	1.229E+03	5.040E+02	-2.815E+02	1.167E+04	-1.014E+04	-1.947E+04
Y	9	6	3	6	18	11
Y MAXIMUM	4.301E+02	3.515E+02	1.811E+02	-8.138E+03	-2.698E+03	8.196E+03
Z	5	6	5	6	5	9
Z MAXIMUM	9.452E+02	-1.154E+02	-6.281E+02	-7.303E+03	-2.262E+04	1.413E+04
GRAND TOTAL	1.944E+03	9.457E+02	8.500E+02	1.967E+04	2.872E+04	3.423E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (12)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	6	5	6	5	5	9	6	5	6	5	9
X MAXIMUM	1.129E+03	-4.633E+02	2.419E+02	1.167E+04	1.014E+04	1.947E+04	1.129E+03	-4.633E+02	2.419E+02	1.167E+04	1.115E+04	1.797E+04
Y	9	6	3	6	18	11	9	6	3	6	3	11
Y MAXIMUM	3.952E+02	3.231E+02	-1.468E+02	-8.137E+03	2.698E+03	-8.196E+03	3.952E+02	3.231E+02	-1.468E+02	-8.137E+03	-2.804E+03	-8.980E+03
Z	5	6	5	6	5	9	5	6	5	6	5	9
Z MAXIMUM	8.993E+02	2.900E+02	5.398E+02	-7.302E+03	2.262E+04	-1.413E+04	8.993E+02	2.900E+02	5.398E+02	-7.302E+03	2.488E+04	-1.305E+04
GRAND TOTAL	1.802E+03	8.566E+02	7.152E+02	1.967E+04	2.872E+04	3.423E+04	1.802E+03	8.566E+02	7.152E+02	1.967E+04	5.137E+04	3.412E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (13)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	6	5	6	5	5	9	6	5	6	5	6

X	MAXIMUM	9.665E+02	-3.913E+02	2.029E+02	1.117E+04	1.115E+04	1.766E+04	9.665E+02	-3.913E+02	2.029E+02	1.117E+04	2.305E+04	2.966E+04
Y		9	6	18	6	5	11	9	6	18	6	3	6
Y	MAXIMUM	3.581E+02	2.724E+02	-1.061E+02	-7.791E+03	-2.804E+03	-9.085E+03	3.581E+02	2.724E+02	-1.061E+02	-7.791E+03	-8.797E+03	-2.068E+04
Z		5	9	5	6	5	4	5	9	5	6	5	6
Z	MAXIMUM	7.915E+02	-2.539E+02	4.527E+02	-6.991E+03	2.488E+04	1.432E+04	7.915E+02	-2.539E+02	4.527E+02	-6.991E+03	5.142E+04	-1.856E+04
GRAND	TOTAL	1.557E+03	7.312E+02	5.944E+02	1.938E+04	3.137E+04	3.429E+04	1.557E+03	7.312E+02	5.944E+02	1.938E+04	6.224E+04	5.264E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (14)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)	
X	9	6	5	6	5	6	9	6	5	6	5	6	
X	MAXIMUM	9.580E+02	-3.913E+02	2.331E+02	8.540E+03	2.305E+04	1.052E+04	9.580E+02	-3.913E+02	2.331E+02	8.540E+03	3.671E+04	5.346E+04
Y	9	6	3	3	3	6	9	6	3	3	3	6	
Y	MAXIMUM	3.353E+02	2.724E+02	-1.144E+02	7.550E+03	-8.797E+03	-2.128E+04	3.353E+02	2.724E+02	-1.144E+02	7.550E+03	-1.550E+04	-3.728E+04
Z	5	9	5	6	5	6	5	9	5	6	5	6	
Z	MAXIMUM	7.490E+02	-2.539E+02	5.201E+02	-5.344E+03	5.142E+04	-1.910E+04	7.490E+02	-2.539E+02	5.201E+02	-5.344E+03	8.191E+04	-3.345E+04
GRAND	TOTAL	1.525E+03	7.312E+02	6.730E+02	1.684E+04	6.224E+04	5.350E+04	1.525E+03	7.312E+02	6.730E+02	1.684E+04	9.996E+04	9.068E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (15)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)	
X	9	9	14	6	5	6	9	9	14	6	5	6	
X	MAXIMUM	6.491E+02	9.207E+01	-5.461E+01	3.851E+03	3.671E+04	5.400E+04	6.491E+02	9.207E+01	-5.461E+01	3.851E+03	3.532E+04	5.318E+04
Y	9	11	12	3	3	6	9	11	12	3	3	6	
Y	MAXIMUM	2.272E+02	-1.893E+02	-4.308E+01	9.532E+03	-1.550E+04	-3.766E+04	2.272E+02	-1.893E+02	-4.308E+01	9.532E+03	-1.455E+04	-3.709E+04
Z	5	9	5	3	3	6	5	9	5	3	3	6	
Z	MAXIMUM	6.765E+02	-6.684E+01	-5.317E+01	5.651E+03	8.191E+04	-3.379E+04	6.765E+02	-6.684E+01	-5.317E+01	5.651E+03	7.879E+04	-3.328E+04
GRAND	TOTAL	1.161E+03	2.833E+02	1.932E+02	1.398E+04	9.996E+04	9.117E+04	1.161E+03	2.833E+02	1.932E+02	1.398E+04	9.599E+04	8.930E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (16)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)	
X	9	9	9	1	5	6	9	9	9	1	5	6	
X	MAXIMUM	6.434E+02	9.207E+01	9.432E+01	-2.738E+03	3.532E+04	5.331E+04	6.434E+02	9.207E+01	9.432E+01	-2.738E+03	3.545E+04	5.250E+04
Y	9	11	12	3	3	6	9	11	12	3	3	6	
Y	MAXIMUM	2.252E+02	-1.893E+02	-4.289E+01	1.112E+04	-1.455E+04	-3.718E+04	2.252E+02	-1.893E+02	-4.289E+01	1.112E+04	-1.408E+04	-3.661E+04
Z	5	9	9	3	5	6	5	9	9	3	5	6	
Z	MAXIMUM	6.786E+02	-6.684E+01	-6.847E+01	6.595E+03	7.879E+04	-3.337E+04	6.786E+02	-6.684E+01	-6.847E+01	6.595E+03	7.908E+04	-3.285E+04
GRAND	TOTAL	1.157E+03	2.833E+02	2.140E+02	1.461E+04	9.599E+04	8.920E+04	1.157E+03	2.833E+02	2.140E+02	1.461E+04	9.722E+04	9.047E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (17)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)	
X	9	6	5	6	5	6	9	6	5	6	5	6	
X	MAXIMUM	3.746E+02	4.279E+02	-2.684E+02	-5.365E+03	3.545E+04	5.223E+04	3.746E+02	4.279E+02	-2.684E+02	-5.365E+03	1.971E+04	2.714E+04
Y	6	6	3	3	3	6	6	6	3	3	3	11	
Y	MAXIMUM	1.387E+02	-2.985E+02	1.262E+02	1.239E+04	-1.408E+04	-3.642E+04	1.387E+02	-2.985E+02	1.262E+02	1.239E+04	-6.680E+03	2.180E+04
Z	5	6	5	3	5	6	5	6	5	3	5	6	
Z	MAXIMUM	7.673E+02	-2.678E+02	-5.988E+02	7.342E+03	7.908E+04	-3.268E+04	7.673E+02	-2.678E+02	-5.988E+02	7.342E+03	4.398E+04	-1.698E+04
GRAND	TOTAL	1.052E+03	7.674E+02	7.392E+02	1.842E+04	9.722E+04	8.977E+04	1.052E+03	7.674E+02	7.392E+02	1.842E+04	5.572E+04	5.238E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (18)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)	
X	9	6	5	6	5	6	9	6	5	6	5	9	
X	MAXIMUM	3.821E+02	4.279E+02	-2.374E+02	-7.712E+03	1.971E+04	2.657E+04	3.821E+02	4.279E+02	-2.374E+02	-7.712E+03	6.775E+03	-6.749E+03
Y	6	6	18	3	3	11	6	6	18	3	3	11	
Y	MAXIMUM	1.433E+02	-2.985E+02	1.258E+02	1.243E+04	-6.680E+03	2.172E+04	1.433E+02	-2.985E+02	1.258E+02	1.243E+04	7.945E+03	5.269E+04
Z	5	6	5	3	5	6	5	6	5	3	5	3	
Z	MAX	8.166E+02	-2.678E+02	-5.296E+02	7.368E+03	4.398E+04	-1.663E+04	8.166E+02	-2.678E+02	-5.296E+02	7.368E+03	1.293E+04	7.03
GI	TOTAL	1.102E+03	7.674E+02	6.624E+02	2.083E+04	5.572E+04	5.146E+04	1.102E+03	7.674E+02	6.624E+02	2.083E+04	2.520E+04	3.04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (19)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		5	6	5	6	9	9	5	6	5	6	6
X MAXIMUM	4.630E+02	5.986E+02	-3.833E+02	-7.811E+03	6.775E+03	-6.275E+03	4.630E+02	5.986E+02	-3.833E+02	-7.811E+03	-1.668E+04	-3.04
Y		6	6	3	3	18	11	6	6	3	3	11
Y MAXIMUM	2.506E+02	-4.175E+02	1.803E+02	1.127E+04	7.945E+03	3.241E+04	2.506E+02	-4.175E+02	1.803E+02	1.127E+04	1.080E+04	4.218E+04
Z		5	6	5	3	5	3	5	6	5	5	6
Z MAXIMUM	1.033E+03	-3.746E+02	-8.551E+02	6.683E+03	1.293E+04	8.154E+03	1.033E+03	-3.746E+02	-8.551E+02	6.683E+03	-1.721E+04	2.146E+04
GRAND TOTAL	1.298E+03	1.091E+03	1.053E+03	2.055E+04	2.520E+04	3.890E+04	1.298E+03	1.091E+03	1.053E+03	2.055E+04	4.624E+04	7.896E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (20)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		9	1	7	6	5	6	9	1	7	6	6
X MAXIMUM	5.643E+02	-1.580E+02	4.491E+02	-4.789E+03	-1.668E+04	-3.485E+04	5.643E+02	-1.580E+02	4.491E+02	-4.789E+03	2.228E+04	-3.403E+04
Y		9	11	6	3	3	11	9	11	6	3	3
Y MAXIMUM	1.975E+02	9.125E+02	-6.844E+01	8.625E+03	1.080E+04	4.161E+04	1.975E+02	9.125E+02	-6.844E+01	8.625E+03	9.255E+03	2.680E+04
Z		5	13	7	3	5	6	5	13	7	3	6
Z MAXIMUM	4.235E+02	1.008E+02	4.401E+02	5.113E+03	-3.721E+04	2.181E+04	4.235E+02	1.008E+02	4.401E+02	5.113E+03	-3.460E+04	2.130E+04
GRAND TOTAL	9.728E+02	9.722E+02	7.589E+02	1.680E+04	4.624E+04	7.984E+04	9.728E+02	9.722E+02	7.589E+02	1.680E+04	5.688E+04	6.702E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (21)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		9	1	2	1	7	6	9	1	2	1	6
X MAXIMUM	3.556E+02	-1.527E+02	-2.801E+02	-2.712E+03	2.228E+04	-3.432E+04	3.556E+02	-1.527E+02	-2.801E+02	-2.712E+03	-3.185E+04	-2.946E+04
Y		1	11	18	11	3	3	1	11	18	11	11
Y MAXIMUM	1.277E+02	4.439E+02	-1.237E+02	-7.303E+03	9.255E+03	2.744E+04	1.277E+02	4.439E+02	-1.237E+02	-7.303E+03	8.426E+03	-3.859E+04
Z		5	3	2	3	5	6	5	3	2	3	6
Z MAXIMUM	6.180E+02	5.349E+01	-1.457E+02	3.710E+03	-3.460E+04	2.148E+04	6.180E+02	5.349E+01	-1.457E+02	3.710E+03	-3.521E+04	1.844E+04
GRAND TOTAL	9.373E+02	5.364E+02	4.274E+02	1.248E+04	5.688E+04	6.795E+04	9.373E+02	5.364E+02	4.274E+02	1.248E+04	7.108E+04	7.306E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (22)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		9	1	2	1	2	6	9	1	2	1	1
X MAXIMUM	3.557E+02	-1.527E+02	-3.020E+02	-4.129E+03	-3.185E+04	-2.951E+04	3.557E+02	-1.527E+02	-3.020E+02	-4.129E+03	-4.956E+04	2.503E+04
Y		1	11	18	1	3	11	1	11	18	1	11
Y MAXIMUM	1.267E+02	4.439E+02	-1.228E+02	4.589E+03	8.426E+03	-3.908E+04	1.267E+02	4.439E+02	-1.228E+02	4.589E+03	-7.912E+03	-6.510E+04
Z		5	3	2	3	5	6	5	3	2	3	6
Z MAXIMUM	6.166E+02	5.349E+01	-1.570E+02	2.552E+03	-3.521E+04	1.847E+04	6.166E+02	5.349E+01	-1.570E+02	2.552E+03	3.828E+04	1.543E+04
GRAND TOTAL	9.286E+02	5.364E+02	4.459E+02	9.560E+03	7.108E+04	7.350E+04	9.286E+02	5.364E+02	4.459E+02	9.560E+03	8.910E+04	9.002E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (23)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		5	6	2	1	2	5	5	6	2	1	1
X MAXIMUM	3.595E+02	-2.118E+02	-2.691E+02	-6.294E+03	-4.956E+04	2.458E+04	3.595E+02	-2.118E+02	-2.691E+02	-6.294E+03	-6.533E+04	3.290E+04
Y		6	11	6	1	6	11	6	11	6	18	11
Y MAXIMUM	1.718E+02	-4.300E+02	6.131E+01	6.996E+03	-7.912E+03	-6.520E+04	1.718E+02	-4.300E+02	6.131E+01	6.996E+03	-7.626E+03	-3.999E+04
Z		5	6	7	6	7	6	5	6	7	6	6
Z MAXIMUM	8.020E+02	1.326E+02	-2.252E+02	-1.822E+03	3.828E+04	1.533E+04	8.020E+02	1.326E+02	-2.252E+02	-1.822E+03	-3.397E+04	7.556E+03
GRAND TOTAL	1.050E+03	6.285E+02	5.257E+02	1.139E+04	8.910E+04	8.981E+04	1.050E+03	6.285E+02	5.257E+02	1.139E+04	8.755E+04	6.889E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (24)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		5	6	2	1	2	5	5	6	2	1	1
X MAXIMUM	3.513E+02	-2.118E+02	-2.856E+02	-9.139E+03	-6.533E+04	3.222E+04	3.513E+02	-2.118E+02	-2.856E+02	-9.139E+03	-8.208E+04	4.054E+04
Y		6	11	6	1	18	11	6	11	6	18	1
Y MAXIMUM	1.658E+02	-4.300E+02	7.606E+01	1.016E+04	-7.626E+03	-3.968E+04	1.658E+02	-4.300E+02	7.606E+01	1.016E+04	-9.095E+03	-4.506E+04
Z		5	6	5	6	2	6	5	6	5	6	1
Z MAXIMUM	7.837E+02	1.326E+02	2.442E+02	-2.474E+03	-3.397E+04	7.368E+03	7.837E+02	1.326E+02	2.442E+02	-2.474E+03	-4.268E+04	-8.224E+03

GRAND TOTAL 1.025E+03 6.285E+02 5.729E+02 1.635E+04 8.755E+04 6.789E+04 1.025E+03 6.285E+02 5.729E+02 1.635E+04 9.679E+04 6.331E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (25)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	5	6	7	1	2	3	5	6	7	1	2	3
X MAXIMUM	4.163E+02	-2.719E+02	-4.418E+02	-1.264E+04	-8.208E+04	3.959E+04	4.163E+02	-2.719E+02	-4.418E+02	-1.264E+04	-1.010E+05	4.773E+04
Y	6	11	6	1	18	1	6	11	6	1	6	1
Y MAXIMUM	2.330E+02	-9.033E+02	1.588E+02	1.405E+04	-9.095E+03	-4.400E+04	2.330E+02	-9.033E+02	1.588E+02	1.405E+04	9.450E+03	-5.306E+04
Z	5	6	5	1	2	1	5	6	5	1	2	6
Z MAXIMUM	9.288E+02	1.702E+02	4.360E+02	2.565E+03	-4.268E+04	-8.031E+03	9.288E+02	1.702E+02	4.360E+02	2.565E+03	-5.252E+04	-1.059E+04
GRAND TOTAL	1.207E+03	1.086E+03	9.597E+02	2.134E+04	9.679E+04	6.181E+04	1.207E+03	1.086E+03	9.597E+02	2.134E+04	1.208E+05	8.851E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (26)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	1	2	1	2	3	9	1	2	1	2	3
X MAXIMUM	5.501E+02	1.327E+03	1.289E+03	-1.675E+04	-1.010E+05	4.645E+04	5.501E+02	1.327E+03	1.289E+03	-1.675E+04	-2.543E+04	-3.136E+04
Y	1	1	6	1	6	1	1	1	6	1	18	1
Y MAXIMUM	3.077E+02	-1.475E+03	-1.269E+02	1.862E+04	9.450E+03	-5.164E+04	3.077E+02	-1.475E+03	-1.269E+02	1.862E+04	4.674E+03	3.486E+04
Z	9	1	2	1	2	6	9	1	2	1	7	6
Z MAXIMUM	-3.993E+02	-2.692E+02	6.704E+02	3.398E+03	-5.252E+04	-1.077E+04	-3.993E+02	-2.692E+02	6.704E+02	3.398E+03	-1.410E+04	-8.261E+03
GRAND TOTAL	1.081E+03	2.072E+03	1.571E+03	2.608E+04	1.208E+05	8.723E+04	1.081E+03	2.072E+03	1.571E+03	2.608E+04	4.014E+04	6.352E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (27)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	1	2	1	2	3	2	1	2	1	2	3
X MAXIMUM	-4.738E+02	1.300E+03	1.015E+03	-1.395E+04	-2.543E+04	-5.270E+04	-4.738E+02	1.300E+03	1.015E+03	-1.395E+04	3.410E+04	-1.089E+05
Y	1	1	6	1	18	1	1	1	6	1	18	1
Y MAXIMUM	3.090E+02	-1.445E+03	-6.885E+01	1.550E+04	4.674E+03	3.645E+04	3.090E+02	-1.445E+03	-6.885E+01	1.550E+04	6.676E+03	1.211E+05
Z	9	1	2	1	7	6	9	1	2	1	2	1
Z MAXIMUM	-2.693E+02	-2.637E+02	5.279E+02	2.830E+03	-1.410E+04	-8.361E+03	-2.693E+02	-2.637E+02	5.279E+02	2.830E+03	1.773E+04	2.209E+04
GRAND TOTAL	9.075E+02	1.977E+03	1.191E+03	2.159E+04	4.014E+04	6.518E+04	9.075E+02	1.977E+03	1.191E+03	2.159E+04	4.987E+04	1.673E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (28)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	1	2	1	2	3	2	1	2	1	2	3
X MAXIMUM	-5.604E+02	1.300E+03	9.701E+02	-4.408E+03	3.410E+04	-1.097E+05	-5.604E+02	1.300E+03	9.701E+02	-4.408E+03	9.097E+04	-1.859E+05
Y	1	1	6	1	18	1	1	1	6	1	18	1
Y MAXIMUM	3.136E+02	-1.445E+03	-7.234E+01	4.900E+03	6.676E+03	1.220E+05	3.136E+02	-1.445E+03	-7.234E+01	4.900E+03	8.724E+03	2.067E+05
Z	2	1	2	3	2	1	2	1	2	3	2	1
Z MAXIMUM	-2.914E+02	-2.637E+02	5.044E+02	1.569E+03	1.773E+04	2.226E+04	-2.914E+02	-2.637E+02	5.044E+02	1.569E+03	4.730E+04	3.772E+04
GRAND TOTAL	9.610E+02	1.977E+03	1.148E+03	8.487E+03	4.987E+04	1.684E+05	9.610E+02	1.977E+03	1.148E+03	8.487E+03	1.124E+05	2.815E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (29)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	1	2	1	2	3	2	1	2	1	2	3
X MAXIMUM	-5.269E+02	1.272E+03	4.331E+02	1.183E+04	9.097E+04	-1.856E+05	-5.269E+02	1.272E+03	4.331E+02	1.183E+04	1.164E+05	-2.602E+05
Y	1	1	18	1	18	1	1	1	18	1	6	1
Y MAXIMUM	3.069E+02	-1.413E+03	-1.086E+02	-1.315E+04	8.724E+03	2.063E+05	3.069E+02	-1.413E+03	-1.086E+02	-1.315E+04	-6.010E+03	2.892E+05
Z	2	1	2	1	2	1	2	1	2	1	2	1
Z MAXIMUM	-2.740E+02	-2.580E+02	2.252E+02	-2.399E+03	4.730E+04	3.765E+04	-2.740E+02	-2.580E+02	2.252E+02	-2.399E+03	6.050E+04	5.277E+04
GRAND TOTAL	8.722E+02	2.015E+03	5.504E+02	1.896E+04	1.124E+05	2.810E+05	8.722E+02	2.015E+03	5.504E+02	1.896E+04	1.369E+05	3.933E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (30)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	1	2	1	2	3	2	1	2	1	2	3
X MAXIMUM	-5.626E+02	-1.283E+03	3.856E+02	3.442E+04	1.164E+05	-2.581E+05	-5.626E+02	-1.283E+03	3.856E+02	3.442E+04	1.390E+05	-1.827E+05
Y	1	1	18	1	6	1	1	1	18	1	6	1

Y MAXIMUM 3.055E+02 1.426E+03-1.067E+02-3.826E+04-6.010E+03 2.669E+05 3.055E+02 1.426E+03-1.067E+02-3.826E+04-5.650E+03 2.033E+05
 Z 2 1 2 1 2 1 2 1 2 1 2 1
 Y MAXIMUM -2.925E+02 2.603E+02 2.005E+02-6.982E+03 6.050E+04 5.237E+04-2.925E+02 2.603E+02 2.005E+02-6.982E+03 7.226E+04 3. 04
 G TOTAL 9.014E+02 1.995E+03 5.012E+02 5.237E+04 1.369E+05 3.903E+05 9.014E+02 1.995E+03 5.012E+02 5.237E+04 1.612E+05 2. 05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (31)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	1	2	1	2	1	2	1	2	1	2	1
X MAXIMUM	-3.765E+02	-1.178E+03	-2.457E+02	5.024E+04	1.390E+05	-1.792E+05	-3.765E+02	-1.178E+03	-2.457E+02	5.024E+04	1.246E+05	-1.101E+05
Y	1	1	1	1	1	6	1	1	1	1	18	1
Y MAXIMUM	2.894E+02	1.309E+03	7.573E+01	-5.585E+04	-5.650E+03	1.992E+05	2.894E+02	1.309E+03	7.573E+01	-5.585E+04	-6.495E+03	1.224E+05
Z	10	1	5	2	1	10	1	1	5	1	2	1
Z MAXIMUM	3.735E+02	2.390E+02	1.902E+02	-1.019E+04	7.226E+04	3.635E+04	3.735E+02	2.390E+02	1.902E+02	-1.019E+04	6.477E+04	2.234E+04
GRAND TOTAL	8.042E+02	1.784E+03	5.137E+02	7.613E+04	1.612E+05	2.709E+05	8.042E+02	1.784E+03	5.137E+02	7.613E+04	1.418E+05	1.674E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (32)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	1	2	1	2	1	2	1	2	1	2	1
X MAXIMUM	-3.536E+02	-1.178E+03	-2.776E+02	5.967E+04	1.246E+05	-1.053E+05	-3.536E+02	-1.178E+03	-2.776E+02	5.967E+04	1.083E+05	-3.629E+04
Y	1	1	1	1	1	18	1	1	1	1	1	1
Y MAXIMUM	2.816E+02	1.309E+03	1.007E+02	-6.632E+04	-6.495E+03	1.171E+05	2.816E+02	1.309E+03	1.007E+02	-6.632E+04	8.943E+03	4.034E+04
Z	10	1	5	2	1	10	1	1	5	1	2	1
Z MAXIMUM	3.777E+02	2.390E+02	2.143E+02	-1.210E+04	6.477E+04	2.137E+04	3.777E+02	2.390E+02	2.143E+02	-1.210E+04	5.631E+04	7.361E+03
GRAND TOTAL	7.817E+02	1.784E+03	5.474E+02	9.032E+04	1.418E+05	1.602E+05	7.817E+02	1.784E+03	5.474E+02	9.032E+04	1.249E+05	6.070E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (33)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	2	1	2	1	1	1	1	2	2	1
X MAXIMUM	-2.297E+02	-8.145E+02	-7.506E+02	6.260E+04	1.083E+05	-3.095E+04	-2.297E+02	-8.145E+02	-7.506E+02	6.260E+04	6.429E+04	1.679E+04
Y	1	1	1	1	1	1	1	1	1	1	1	1
Y MAXIMUM	2.553E+02	9.054E+02	1.477E+02	-6.958E+04	8.943E+03	3.441E+04	2.553E+02	9.054E+02	1.477E+02	-6.958E+04	1.760E+04	-1.867E+04
Z	10	1	2	1	2	17	10	1	2	1	2	2
Z MAXIMUM	4.690E+02	1.652E+02	-3.903E+02	-1.270E+04	5.631E+04	7.190E+03	4.690E+02	1.652E+02	-3.903E+02	-1.270E+04	3.343E+04	4.579E+03
GRAND TOTAL	7.385E+02	1.255E+03	1.046E+03	9.478E+04	1.249E+05	5.346E+04	7.385E+02	1.255E+03	1.046E+03	9.478E+04	8.837E+04	3.145E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (34)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	9	1	2	1	2	1	9	1	2	1	2	1
X MAXIMUM	2.650E+02	-8.145E+02	-8.383E+02	6.089E+04	6.429E+04	2.222E+04	2.650E+02	-8.145E+02	-8.383E+02	6.089E+04	1.540E+04	6.973E+04
Y	9	1	1	1	1	1	9	1	1	1	1	1
Y MAXIMUM	9.275E+01	9.054E+02	-1.416E+02	-6.768E+04	1.760E+04	-2.470E+04	9.275E+01	9.054E+02	-1.416E+02	-6.768E+04	9.340E+03	-7.751E+04
Z	9	1	2	1	2	7	9	1	2	1	5	1
Z MAXIMUM	-1.924E+02	1.652E+02	-4.359E+02	-1.235E+04	3.343E+04	4.537E+03	-1.924E+02	1.652E+02	-4.359E+02	-1.235E+04	1.635E+04	-1.414E+04
GRAND TOTAL	5.395E+02	1.255E+03	1.042E+03	9.227E+04	8.837E+04	3.819E+04	5.395E+02	1.255E+03	1.042E+03	9.227E+04	4.329E+04	1.074E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (35)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	2	2	8	1	1	2	2	2	8	2	1	2
X MAXIMUM	4.136E+02	1.050E+03	-1.248E+02	6.089E+04	-6.972E+04	1.540E+04	9.750E+02	5.692E+02	-1.246E+02	-1.299E+04	-8.852E+04	-6.880E+04
Y	1	1	18	1	1	1	17	1	18	1	1	2
Y MAXIMUM	-6.886E+01	9.586E+01	5.677E+01	-6.768E+04	7.750E+04	9.340E+03	9.616E+01	1.179E+02	5.677E+01	-6.723E+03	9.840E+04	-2.308E+03
Z	2	2	17	1	1	5	2	2	17	2	1	2
Z MAXIMUM	2.151E+02	5.462E+02	-3.903E+01	-1.235E+04	1.414E+04	1.635E+04	5.069E+02	2.960E+02	-3.903E+01	-6.756E+03	1.796E+04	-3.577E+04
GRAND TOTAL	6.265E+02	1.246E+03	1.967E+02	9.228E+04	1.074E+05	4.329E+04	1.166E+03	7.654E+02	1.967E+02	1.849E+04	1.341E+05	7.802E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (35)

PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
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X	2	9	8	1	1	2
X MAXIMUM	1.118E+03	-1.675E+02	-1.248E+02	-4.866E+04	-6.935E+04	-9.027E+04
Y	21	1	18	1	1	1
Y MAXIMUM	8.786E+01	8.939E+01	5.677E+01	5.409E+04	7.709E+04	-1.255E+04
Z	2	10	17	1	1	2
Z MAXIMUM	5.814E+02	-1.959E+02	-3.903E+01	9.877E+03	1.407E+04	-4.694E+04
GRAND TOTAL	1.317E+03	4.597E+02	1.967E+02	7.649E+04	1.066E+05	1.090E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (36)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	1	2	1	2	1	2	1	2	1	2	1
X MAXIMUM	1.136E+03	5.957E+02	5.593E+02	-4.867E+04	-9.027E+04	6.934E+04	1.136E+03	5.957E+02	5.593E+02	-4.867E+04	-7.269E+04	5.061E+04
Y	18	1	21	1	1	1	18	1	21	1	1	1
Y MAXIMUM	1.200E+02	-6.622E+02	8.523E+01	5.410E+04	-1.255E+04	-7.708E+04	1.200E+02	-6.622E+02	8.523E+01	5.410E+04	-1.489E+04	-5.626E+04
Z	2	1	2	1	2	1	2	1	2	1	2	1
Z MAXIMUM	5.905E+02	-1.208E+02	2.908E+02	9.874E+03	-4.694E+04	-1.407E+04	5.905E+02	-1.208E+02	2.908E+02	9.874E+03	-3.779E+04	-1.027E+04
GRAND TOTAL	1.386E+03	9.221E+02	6.635E+02	7.650E+04	1.090E+05	1.066E+05	1.386E+03	9.221E+02	6.635E+02	7.650E+04	9.148E+04	7.907E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (37)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	1	2	1	2	1	2	1	2	1	2	1
X MAXIMUM	1.145E+03	8.358E+02	7.419E+02	-4.868E+04	-7.269E+04	5.060E+04	1.145E+03	8.358E+02	7.419E+02	-4.868E+04	-1.858E+04	-2.295E+04
Y	18	1	21	1	1	1	18	1	21	1	1	1
Y MAXIMUM	1.834E+02	-9.291E+02	8.858E+01	5.411E+04	-1.489E+04	-5.625E+04	1.834E+02	-9.291E+02	8.858E+01	5.411E+04	-2.066E+04	2.551E+04
Z	2	1	2	1	2	1	2	1	2	1	10	2
Z MAXIMUM	5.951E+02	-1.696E+02	3.857E+02	9.876E+03	-3.779E+04	-1.027E+04	5.951E+02	-1.696E+02	3.857E+02	9.876E+03	1.222E+04	7.614E+03
GRAND TOTAL	1.443E+03	1.288E+03	8.748E+02	7.652E+04	9.148E+04	7.906E+04	1.443E+03	1.288E+03	8.748E+02	7.652E+04	3.876E+04	4.451E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (38)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	2	1	2	1	2	1	2	1	2	1	2	1
X MAXIMUM	1.167E+03	1.131E+03	9.916E+02	-4.868E+04	1.858E+04	-2.295E+04	1.167E+03	1.131E+03	9.916E+02	-4.868E+04	3.525E+04	-7.158E+04
Y	18	1	21	1	1	1	18	1	21	1	1	1
Y MAXIMUM	3.483E+02	-1.257E+03	-1.103E+02	5.411E+04	-2.066E+04	2.551E+04	3.483E+02	-1.257E+03	-1.103E+02	5.411E+04	-2.219E+04	7.957E+04
Z	2	1	2	1	10	2	2	1	2	1	2	1
Z MAXIMUM	6.067E+02	-2.294E+02	5.156E+02	9.876E+03	1.222E+04	7.615E+03	6.067E+02	-2.294E+02	5.156E+02	9.876E+03	1.833E+04	1.452E+04
GRAND TOTAL	1.645E+03	1.734E+03	1.250E+03	7.652E+04	3.876E+04	4.450E+04	1.645E+03	1.734E+03	1.250E+03	7.652E+04	5.035E+04	1.111E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (39)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	2	1	2	1	2	1	2	1	2	2	2	1
X MAXIMUM	1.167E+03	-1.131E+03	-9.917E+02	-4.868E+04	-3.525E+04	7.158E+04	8.819E+02	-8.580E+02	-9.917E+02	-5.044E+04	-4.404E+04	1.086E+05
Y	18	1	21	1	1	1	1	1	21	1	1	1
Y MAXIMUM	3.483E+02	1.257E+03	1.103E+02	5.411E+04	2.219E+04	-7.957E+04	8.236E+02	9.557E+02	1.103E+02	5.442E+04	-2.144E+04	-1.208E+05
Z	2	1	2	1	2	1	2	2	2	2	2	1
Z MAXIMUM	6.067E+02	2.294E+02	-5.156E+02	9.875E+03	-1.833E+04	-1.452E+04	4.586E+02	-3.994E+02	-5.156E+02	-2.623E+04	-2.290E+04	-2.204E+04
GRAND TOTAL	1.645E+03	1.734E+03	1.250E+03	7.651E+04	5.035E+04	1.111E+05	1.674E+03	1.706E+03	1.250E+03	9.422E+04	5.907E+04	1.641E+05

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (39)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	2	2	2	1	1
X MAXIMUM	-1.151E+03	-1.167E+03	-9.917E+02	-7.988E+04	4.723E+04	1.262E+05
Y	1	18	21	1	1	1
Y MAXIMUM	1.257E+03	-3.483E+02	1.103E+02	2.380E+04	-5.250E+04	-1.403E+05
Z	1	2	2	2	2	1
Z MAXIMUM	2.294E+02	-6.067E+02	-5.156E+02	-4.153E+04	-1.406E+04	-2.560E+04
GRAND TOTAL	1.734E+03	1.645E+03	1.250E+03	9.904E+04	7.973E+04	1.956E+05

ELEMENT TYPE (3/D) P I P E) / / / ELEMENT NUMBER (40)

	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	2	2	2	1	1	1	2	2	1	1
X MAXIMUM	-1.131E+03	-5.577E+02	1.426E+03	-7.988E+04	1.039E+05	-8.575E+04	-1.131E+03	-5.577E+02	1.426E+03	-7.988E+04	1.039E+05
Y	1	17	18	1	1	1	1	17	18	1	1
Y MAXIMUM	1.257E+03	9.889E+01	3.474E+02	2.379E+04	-1.155E+05	9.532E+04	1.257E+03	9.889E+01	3.474E+02	2.379E+04	-1.155E+05
Z	1	2	2	2	1	1	1	2	2	1	1
Z MAXIMUM	2.294E+02	-2.900E+02	7.415E+02	-4.154E+04	-2.108E+04	1.740E+04	2.294E+02	-2.900E+02	7.415E+02	-4.154E+04	-2.108E+04
GRAND TOTAL	1.734E+03	8.611E+02	1.878E+03	9.904E+04	1.649E+05	1.319E+05	1.734E+03	8.611E+02	1.878E+03	9.904E+04	1.650E+05

BENCHMARK PROBLEM NO. 7

Figure 7.1

BENCHMARK PROBLEM NO.7

X AND Z SPECTRUM

Figure 7.2

BENCHMARK PROBLEM NO.7

Y SPECTRUM

Figure 7.3

CONTROL INFORMATION

NUMBER OF NODAL POINTS ■ 170
 NUMBER OF ELEMENT TYPES ■ 2
 NUMBER OF LOAD CASES ■ 0
 NUMBER OF FREQUENCIES ■ 22
 ANALYSIS CODE (NDYN) ■ 3
 EQ.0, STATIC
 EQ.1, MODAL EXTRACTION
 EQ.2, FORCED RESPONSE
 EQ.3, RESPONSE SPECTRUM
 EQ.4, DIRECT INTEGRATION
 SOLUTION MODE (MODEX) ■ 0
 EQ.0, EXECUTION
 EQ.1, DATA CHECK
 NUMBER OF SUBSPACE —
 ITERATION VECTORS (IAD) ■ 0
 EQUATIONS PER BLOCK ■ 0
 TAPE10 SAVE FLAG (N10SV) ■ 0

NODAL POINT INPUT DATA

NODE NUMBER	BOUNDARY CONDITION CODES						NODAL POINT COORDINATES			T	
	X	Y	Z	XX	YY	ZZ	X	Y	Z		
1	1	1	1	1	1	1	0.000	0.000	0.000	1	0.000
140	1	1	1	1	1	1	0.000	0.000	140.000	1	0.000
2	0	0	0	0	0	0	0.000	-6.000	0.000	0	0.000
4	0	0	0	0	0	0	0.000	-12.000	-6.000	0	0.000
5	0	0	0	0	0	0	0.000	-12.000	-38.040	0	0.000
6	0	0	0	0	0	0	0.000	-12.000	-54.000	0	0.000
8	0	0	0	0	0	0	0.000	-18.000	-60.000	0	0.000
10	0	0	0	0	0	0	0.000	-36.000	-60.000	0	0.000
11	0	0	0	0	0	0	0.000	-65.040	-60.000	0	0.000
13	0	0	0	0	0	0	0.000	-71.040	-54.000	0	0.000
15	0	0	0	0	0	0	0.000	-71.040	-36.000	0	0.000
16	0	0	0	0	0	0	0.000	-71.040	-6.000	0	0.000
18	0	0	0	0	0	0	-6.000	-71.040	0.000	0	0.000
20	0	0	0	0	0	0	-21.960	-71.040	0.000	0	0.000
25	0	0	0	0	0	0	-57.960	-71.040	0.000	0	0.000
30	0	0	0	0	0	0	-117.000	-71.040	0.000	0	0.000
31	0	0	0	0	0	0	-139.880	-71.040	-22.680	0	0.000
33	0	0	0	0	0	0	-141.000	-71.040	-25.860	0	0.000
35	0	0	0	0	0	0	-141.000	-71.040	-46.560	0	0.000
40	0	0	0	0	0	0	-141.000	-71.040	-82.560	0	0.000
41	0	0	0	0	0	0	-141.000	-71.040	-102.600	0	0.000
44	0	0	0	0	0	0	-136.560	-71.040	-106.560	0	0.000
45	0	0	0	0	0	0	-122.460	-71.040	-106.560	0	0.000
46	0	0	0	0	0	0	-97.440	-71.040	-106.560	0	0.000
48	0	0	0	0	0	0	-92.940	-75.540	-106.560	0	0.000
50	0	0	0	0	0	0	-92.940	-91.080	-106.560	0	0.000
55	0	0	0	0	0	0	-92.940	-107.040	-106.560	0	0.000
60	0	0	0	0	0	0	-165.000	-71.040	0.000	0	0.000
65	0	0	0	0	0	0	-213.000	-71.040	0.000	0	0.000
70	0	0	0	0	0	0	-255.000	-71.040	0.000	0	0.000
71	0	0	0	0	0	0	-277.040	-71.040	-22.680	0	0.000

73	0	0	0	0	0	0	-279.000	-71.040	-25.860	0	0.000
75	0	0	0	0	0	0	-274.000	-71.040	-46.560	0	0.000
80	0	0	0	0	0	0	-279.000	-71.040	-82.560	0	0.000
81	0	0	0	0	0	0	-279.000	-71.040	-102.060	0	0.000
84	0	0	0	0	0	0	-274.500	-71.040	-106.560	0	0.000
85	0	0	0	0	0	0	-260.460	-71.040	-106.560	0	0.000
86	0	0	0	0	0	0	-235.040	-71.040	-106.560	0	0.000
88	0	0	0	0	0	0	-230.940	-75.540	-106.560	0	0.000
90	0	0	0	0	0	0	-230.940	-91.080	-106.560	0	0.000
95	0	0	0	0	0	0	-230.940	-107.040	-106.560	0	0.000
98	0	0	0	0	0	0	-259.080	-71.040	0.000	0	0.000
100	0	0	0	0	0	0	-263.040	-71.040	0.000	0	0.000
105	0	0	0	0	0	0	-315.000	-71.040	0.000	0	0.000
110	0	0	0	0	0	0	-375.000	-71.040	0.000	0	0.000
111	0	0	0	0	0	0	-412.500	-71.040	0.000	0	0.000
113	0	0	0	0	0	0	-417.000	-71.040	-4.500	0	0.000
115	0	0	0	0	0	0	-417.000	-71.040	-18.120	0	0.000
120	0	0	0	0	0	0	-417.000	-71.040	-78.120	0	0.000
121	0	0	0	0	0	0	-417.000	-71.040	-102.180	0	0.000
124	0	0	0	0	0	0	-412.500	-71.040	-106.680	0	0.000
125	0	0	0	0	0	0	-394.460	-71.040	-106.680	0	0.000
126	0	0	0	0	0	0	-373.440	-71.040	-106.680	0	0.000
128	0	0	0	0	0	0	-368.940	-75.540	-106.680	0	0.000
130	0	0	0	0	0	0	-368.940	-91.080	-106.680	0	0.000
140	0	0	0	0	0	0	-368.940	-107.040	-106.680	0	0.000
141	1	1	1	1	1	1	0.000	-37.000	-60.000	0	0.000
142	1	1	1	1	1	1	-141.000	-72.040	-82.560	0	0.000
143	1	1	1	1	1	1	-274.000	-72.040	-82.560	0	0.000
144	1	1	1	1	1	1	-417.000	-72.040	-78.120	0	0.000
145	1	1	1	1	1	1	-21.960	-72.040	0.000	0	0.000
146	1	1	1	1	1	1	-375.000	-72.040	0.000	0	0.000
147	1	1	1	1	1	1	-93.940	-107.040	-106.560	0	0.000
148	1	1	1	1	1	1	-93.940	-107.040	-106.560	0	0.000
149	1	1	1	1	1	1	-92.940	-108.040	-106.560	0	0.000
150	1	1	1	1	1	1	-92.940	-108.040	-106.560	0	0.000
151	1	1	1	1	1	1	-92.940	-107.040	-107.560	0	0.000
152	1	1	1	1	1	1	-92.940	-107.040	-107.560	0	0.000
153	1	1	1	1	1	1	-214.000	-71.040	0.000	0	0.000
154	1	1	1	1	1	1	-214.000	-71.040	0.000	0	0.000
155	1	1	1	1	1	1	-213.000	-72.040	0.000	0	0.000
156	1	1	1	1	1	1	-213.000	-72.040	0.000	0	0.000
157	1	1	1	1	1	1	-213.000	-71.040	-1.000	0	0.000
158	1	1	1	1	1	1	-213.000	-71.040	-1.000	0	0.000
159	1	1	1	1	1	1	-231.940	-107.040	-106.560	0	0.000
160	1	1	1	1	1	1	-231.940	-107.040	-106.560	0	0.000
161	1	1	1	1	1	1	-230.940	-108.040	-106.560	0	0.000
162	1	1	1	1	1	1	-230.940	-108.040	-106.560	0	0.000
163	1	1	1	1	1	1	-230.940	-107.040	-107.560	0	0.000
164	1	1	1	1	1	1	-230.940	-107.040	-107.560	0	0.000
165	1	1	1	1	1	1	-369.940	-107.040	-106.680	0	0.000
166	1	1	1	1	1	1	-369.940	-107.040	-106.680	0	0.000
167	1	1	1	1	1	1	-368.940	-108.040	-106.680	0	0.000
168	1	1	1	1	1	1	-368.940	-108.040	-106.680	0	0.000
169	1	1	1	1	1	1	-368.940	-107.040	-107.680	0	0.000
170	1	1	1	1	1	1	-368.940	-107.040	-107.680	0	0.000

1	1	1	1	1	1	1	0.000	0.000	0.000	0.000
2	0	0	0	0	0	0	0.000	-6.700	0.000	0.000
	1	1	1	1	1	1	0.000	0.000	2.014	0.000
	0	0	0	0	0	0	0.000	-12.000	-6.000	0.000
5	0	0	0	0	0	0	0.000	-12.000	-38.040	0.000
6	0	0	0	0	0	0	0.000	-12.000	-54.000	0.000
7	1	1	1	1	1	1	0.000	0.000	6.043	0.000
8	0	0	0	0	0	0	0.000	-14.000	-60.000	0.000
9	1	1	1	1	1	1	0.000	0.000	8.058	0.000
10	0	0	0	0	0	0	0.000	-30.000	-60.000	0.000
11	0	0	0	0	0	0	0.000	-65.040	-60.000	0.000
12	1	1	1	1	1	1	0.000	0.000	11.070	0.000
13	0	0	0	0	0	0	0.000	-71.040	-54.000	0.000
14	1	1	1	1	1	1	0.000	0.000	13.094	0.000
15	0	0	0	0	0	0	0.000	-71.040	-36.000	0.000
16	0	0	0	0	0	0	0.000	-71.040	-6.000	0.000
17	1	1	1	1	1	1	0.000	0.000	16.115	0.000
18	0	0	0	0	0	0	-6.000	-71.040	0.000	0.000
19	1	1	1	1	1	1	0.000	0.000	14.129	0.000
20	0	0	0	0	0	0	-21.960	-71.040	0.000	0.000
21	1	1	1	1	1	1	0.000	0.000	20.144	0.000
22	1	1	1	1	1	1	0.000	0.000	21.151	0.000
23	1	1	1	1	1	1	0.000	0.000	22.158	0.000
24	1	1	1	1	1	1	0.000	0.000	23.165	0.000
25	0	0	0	0	0	0	-57.960	-71.040	0.000	0.000
26	1	1	1	1	1	1	0.000	0.000	25.180	0.000
27	1	1	1	1	1	1	0.000	0.000	26.187	0.000
28	1	1	1	1	1	1	0.000	0.000	27.194	0.000
29	1	1	1	1	1	1	0.000	0.000	28.201	0.000
30	0	0	0	0	0	0	-117.000	-71.040	0.000	0.000
31	0	0	0	0	0	0	-139.680	-71.040	-22.680	0.000
32	1	1	1	1	1	1	0.000	0.000	31.223	0.000
33	0	0	0	0	0	0	-141.000	-71.040	-25.860	0.000
34	1	1	1	1	1	1	0.000	0.000	33.237	0.000
35	0	0	0	0	0	0	-141.000	-71.040	-46.560	0.000
36	1	1	1	1	1	1	0.000	0.000	35.252	0.000
37	1	1	1	1	1	1	0.000	0.000	36.259	0.000
38	1	1	1	1	1	1	0.000	0.000	37.266	0.000
39	1	1	1	1	1	1	0.000	0.000	38.273	0.000
40	0	0	0	0	0	0	-141.000	-71.040	-82.560	0.000
41	0	0	0	0	0	0	-141.000	-71.040	-102.060	0.000
42	1	1	1	1	1	1	0.000	0.000	41.275	0.000
43	1	1	1	1	1	1	0.000	0.000	42.302	0.000
44	0	0	0	0	0	0	-136.500	-71.040	-106.560	0.000
45	0	0	0	0	0	0	-122.460	-71.040	-106.560	0.000
46	0	0	0	0	0	0	-97.440	-71.040	-106.560	0.000
47	1	1	1	1	1	1	0.000	0.000	46.331	0.000
48	0	0	0	0	0	0	-92.940	-75.540	-106.560	0.000
49	1	1	1	1	1	1	0.000	0.000	48.345	0.000
50	0	0	0	0	0	0	-92.940	-91.080	-106.560	0.000
51	1	1	1	1	1	1	0.000	0.000	50.360	0.000
52	1	1	1	1	1	1	0.000	0.000	51.367	0.000
53	1	1	1	1	1	1	0.000	0.000	52.374	0.000
54	1	1	1	1	1	1	0.000	0.000	53.381	0.000
55	0	0	0	0	0	0	-92.940	-107.040	-106.560	0.000
56	1	1	1	1	1	1	0.000	0.000	55.396	0.000
57	1	1	1	1	1	1	0.000	0.000	56.403	0.000
58	1	1	1	1	1	1	0.000	0.000	57.410	0.000
59	1	1	1	1	1	1	0.000	0.000	58.417	0.000

60	0	0	0	0	0	0	-165.000	-71.040	0.000	0.000
61	1	1	1	1	1	1	0.000	0.000	60.432	0.000
62	1	1	1	1	1	1	0.000	0.000	61.439	0.000
63	1	1	1	1	1	1	0.000	0.000	62.446	0.000
64	1	1	1	1	1	1	0.000	0.000	63.453	0.000
65	0	0	0	0	0	0	-213.000	-71.040	0.000	0.000
66	1	1	1	1	1	1	0.000	0.000	65.468	0.000
67	1	1	1	1	1	1	0.000	0.000	66.475	0.000
68	1	1	1	1	1	1	0.000	0.000	67.482	0.000
69	1	1	1	1	1	1	0.000	0.000	68.489	0.000
70	0	0	0	0	0	0	-255.000	-71.040	0.000	0.000
71	0	0	0	0	0	0	-277.680	-71.040	-22.680	0.000
72	1	1	1	1	1	1	0.000	0.000	71.511	0.000
73	0	0	0	0	0	0	-279.000	-71.040	-25.860	0.000
74	1	1	1	1	1	1	0.000	0.000	73.525	0.000
75	0	0	0	0	0	0	-279.000	-71.040	-46.560	0.000
76	1	1	1	1	1	1	0.000	0.000	75.540	0.000
77	1	1	1	1	1	1	0.000	0.000	76.547	0.000
78	1	1	1	1	1	1	0.000	0.000	77.554	0.000
79	1	1	1	1	1	1	0.000	0.000	78.561	0.000
80	0	0	0	0	0	0	-279.000	-71.040	-82.560	0.000
81	0	0	0	0	0	0	-279.000	-71.040	-182.060	0.000
82	1	1	1	1	1	1	0.000	0.000	81.583	0.000
83	1	1	1	1	1	1	0.000	0.000	82.590	0.000
84	0	0	0	0	0	0	-274.500	-71.040	-106.560	0.000
85	0	0	0	0	0	0	-260.460	-71.040	-106.560	0.000
86	0	0	0	0	0	0	-235.440	-71.040	-106.560	0.000
87	1	1	1	1	1	1	0.000	0.000	86.619	0.000
88	0	0	0	0	0	0	-230.940	-75.540	-106.560	0.000
89	1	1	1	1	1	1	0.000	0.000	88.633	0.000
90	0	0	0	0	0	0	-230.940	-91.080	-106.560	0.000
91	1	1	1	1	1	1	0.000	0.000	90.647	0.000
92	1	1	1	1	1	1	0.000	0.000	91.655	0.000
93	1	1	1	1	1	1	0.000	0.000	92.662	0.000
94	1	1	1	1	1	1	0.000	0.000	93.669	0.000
95	0	0	0	0	0	0	-230.940	-107.040	-106.560	0.000
96	1	1	1	1	1	1	0.000	0.000	95.683	0.000
97	1	1	1	1	1	1	0.000	0.000	96.691	0.000
98	0	0	0	0	0	0	-259.080	-71.040	0.000	0.000
99	1	1	1	1	1	1	0.000	0.000	98.705	0.000
100	0	0	0	0	0	0	-263.040	-71.040	0.000	0.000
101	1	1	1	1	1	1	0.000	0.000	100.719	0.000
102	1	1	1	1	1	1	0.000	0.000	101.727	0.000
103	1	1	1	1	1	1	0.000	0.000	102.734	0.000
104	1	1	1	1	1	1	0.000	0.000	103.741	0.000
105	0	0	0	0	0	0	-315.000	-71.040	0.000	0.000
106	1	1	1	1	1	1	0.000	0.000	105.755	0.000
107	1	1	1	1	1	1	0.000	0.000	106.763	0.000
108	1	1	1	1	1	1	0.000	0.000	107.770	0.000
109	1	1	1	1	1	1	0.000	0.000	108.777	0.000
110	0	0	0	0	0	0	-375.000	-71.040	0.000	0.000
111	0	0	0	0	0	0	-412.500	-71.040	0.000	0.000
112	1	1	1	1	1	1	0.000	0.000	111.799	0.000
113	0	0	0	0	0	0	-417.000	-71.040	-4.500	0.000
114	1	1	1	1	1	1	0.000	0.000	113.813	0.000
115	0	0	0	0	0	0	-417.000	-71.040	-18.120	0.000
116	1	1	1	1	1	1	0.000	0.000	115.827	0.000
117	1	1	1	1	1	1	0.000	0.000	116.835	0.000
118	1	1	1	1	1	1	0.000	0.000	117.842	0.000

120	0	0	0	0	0	0	-417.000	-71.040	-78.120	0.000
121	0	0	0	0	0	0	-417.000	-71.040	-102.180	0.000
122	1	1	1	1	1	1	0.000	0.000	121.871	0.000
123	1	1	1	1	1	1	0.000	0.000	122.878	0.000
124	0	0	0	0	0	0	-412.500	-71.040	-106.680	0.000
125	0	0	0	0	0	0	-398.460	-71.040	-106.680	0.000
126	0	0	0	0	0	0	-373.440	-71.040	-106.680	0.000
127	1	1	1	1	1	1	0.000	0.000	126.906	0.000
128	0	0	0	0	0	0	-368.940	-75.540	-106.680	0.000
129	1	1	1	1	1	1	0.000	0.000	128.921	0.000
130	0	0	0	0	0	0	-368.940	-91.080	-106.680	0.000
131	1	1	1	1	1	1	0.000	0.000	130.935	0.000
132	1	1	1	1	1	1	0.000	0.000	131.942	0.000
133	1	1	1	1	1	1	0.000	0.000	132.950	0.000
134	1	1	1	1	1	1	0.000	0.000	133.957	0.000
135	1	1	1	1	1	1	0.000	0.000	134.964	0.000
136	1	1	1	1	1	1	0.000	0.000	135.971	0.000
137	1	1	1	1	1	1	0.000	0.000	136.978	0.000
138	1	1	1	1	1	1	0.000	0.000	137.986	0.000
139	1	1	1	1	1	1	0.000	0.000	138.993	0.000
140	0	0	0	0	0	0	-368.940	-107.040	-106.680	0.000
141	1	1	1	1	1	1	0.000	-37.000	-60.000	0.000
142	1	1	1	1	1	1	-141.000	-72.040	-82.560	0.000
143	1	1	1	1	1	1	-279.000	-72.040	-82.560	0.000
144	1	1	1	1	1	1	-417.000	-72.040	-78.120	0.000
145	1	1	1	1	1	1	-21.960	-72.040	0.000	0.000
146	1	1	1	1	1	1	-375.000	-72.040	0.000	0.000
147	1	1	1	1	1	1	-93.940	-107.040	-106.560	0.000
148	1	1	1	1	1	1	-93.940	-107.040	-106.560	0.000
149	1	1	1	1	1	1	-92.940	-108.040	-106.560	0.000
150	1	1	1	1	1	1	-92.940	-108.040	-106.560	0.000
151	1	1	1	1	1	1	-92.940	-107.040	-107.560	0.000
152	1	1	1	1	1	1	-92.940	-107.040	-107.560	0.000
153	1	1	1	1	1	1	-214.000	-71.040	0.000	0.000
154	1	1	1	1	1	1	-214.000	-71.040	0.000	0.000
155	1	1	1	1	1	1	-213.000	-72.040	0.000	0.000
156	1	1	1	1	1	1	-213.000	-72.040	0.000	0.000
157	1	1	1	1	1	1	-213.000	-71.040	-1.000	0.000
158	1	1	1	1	1	1	-213.000	-71.040	-1.000	0.000
159	1	1	1	1	1	1	-231.940	-107.040	-106.560	0.000
160	1	1	1	1	1	1	-231.940	-107.040	-106.560	0.000
161	1	1	1	1	1	1	-230.940	-108.040	-106.560	0.000
162	1	1	1	1	1	1	-230.940	-108.040	-106.560	0.000
163	1	1	1	1	1	1	-230.940	-107.040	-107.560	0.000
164	1	1	1	1	1	1	-230.940	-107.040	-107.560	0.000
165	1	1	1	1	1	1	-369.940	-107.040	-106.680	0.000
166	1	1	1	1	1	1	-369.940	-107.040	-106.680	0.000
167	1	1	1	1	1	1	-368.940	-108.040	-106.680	0.000
168	1	1	1	1	1	1	-368.940	-108.040	-106.680	0.000
169	1	1	1	1	1	1	-368.940	-107.040	-107.680	0.000
170	1	1	1	1	1	1	-368.940	-107.040	-107.680	0.000

EQUATION NUMBERS

N	X	Y	Z	XX	YY	ZZ
1	0	0	0	0	0	0
2	1	2	3	4	5	6
3	0	0	0	0	0	0
4	7	8	9	10	11	12
5	13	14	15	16	17	18

PIPE ELEMENT INPUT DATA

CONTROL INFORMATION

NUMBER OF PIPE ELEMENTS ■ 54
 NUMBER OF MATERIAL SETS ■ 2
 MAXIMUM NUMBER OF MATERIAL
 TEMPERATURE INPUT POINTS ■ 1
 NUMBER OF SECTION PROPERTY SETS ■ 2
 NUMBER OF BRANCH POINT NODES ■ 1
 MAXIMUM NUMBER OF TANGENTS
 COMMON TO A BRANCH POINT ■ 4

 FLAG FOR NEGLECTING AXIAL
 DEFORMATIONS IN END ELEMENTS ■ 0
 (EQ.1, NEGLECT)

MATERIAL PROPERTY TABLES

MATERIAL NUMBER ■ (1)
 NUMBER OF
 TEMPERATURE POINTS ■ (1)
 IDENTIFICATION ■ (PIPE
 1 0.00 27000000.0 .300 0.

MATERIAL NUMBER ■ (2)
 NUMBER OF
 TEMPERATURE POINTS ■ (1)
 IDENTIFICATION ■ (VALVE
 1 0.00 81000000.0 .300 0.

SECTION PROPERTY TABLE

SECTION NUMBER	OUTSIDE DIAMETER	WALL THICKNESS	SHAPE FACTOR FOR SHEAR	WEIGHT/ UNIT LENGTH	MASS/ UNIT LENGTH	DESCRIPTION
1	4.500	.3370	0.0000	0.	0.	4 IN PIPE
2	3.500	.3000	0.0000	0.	0.	3 IN PIPE

ELEMENT LOAD CASE MULTIPLIERS

	CASE A	CASE B	CASE C	CASE D
X-DIRECTION GRAVITY	1.000	1.000	1.000	1.000
Y-DIRECTION GRAVITY	1.000	1.000	1.000	1.000
Z-DIRECTION GRAVITY	1.000	1.000	1.000	1.000
THERMAL DISTORTION	1.000	1.000	1.000	1.000
PRESSURE DISTORTION	1.000	1.000	1.000	1.000

PIPE ELEMENT INPUT DATA

ELEMENT NUMBER	ELEMENT TYPE	NODE -I	NODE -J	MATL. NUMBER	SECTION NUMBER	REFERENCE TEMPERATURE (BEND RADIUS)	INTERNAL PRESSURE (THIRD POINT)	D I R E C T I O N A (YX) (Y3- ORDINATE)	C O S I N E S A (YZ) (Z3- ORDINATE)	NODE INCREMENT (WALL FRACTION)	INPUT TAG
1	TANGENT	1	2	1	1	0.00	0.00	0.0000	0.0000	1	II
2	BEND	2	4	1	1	0.00	0.00	0.0000	0.0000	1	IC
						(0.000)	()	(0.000)	(-12.000)	(0.000)	(.1000)
3	TANGENT	4	5	1	1	0.00	0.00	0.0000	0.0000	1	II
4	TANGENT	5	6	2	1	0.00	0.00	0.0000	0.0000	1	II
5	BEND	6	8	1	1	0.00	0.00	0.0000	0.0000	1	IC
						(0.000)	()	(0.000)	(-12.000)	(-60.000)	(.1000)
6	TANGENT	8	10	1	1	0.00	0.00	0.0000	0.0000	1	II
7	TANGENT	10	11	1	1	0.00	0.00	0.0000	0.0000	1	II
8	BEND	11	13	1	1	0.00	0.00	0.0000	0.0000	1	IC
						(0.000)	()	(0.000)	(-71.040)	(-60.000)	(.1000)
9	TANGENT	13	15	1	1	0.00	0.00	0.0000	0.0000	1	II
10	TANGENT	15	16	1	1	0.00	0.00	0.0000	0.0000	1	II
11	BEND	16	18	1	1	0.00	0.00	0.0000	0.0000	1	IC
						(0.000)	()	(0.000)	(-71.040)	(0.000)	(.1000)
12	TANGENT	18	20	2	1	0.00	0.00	0.0000	0.0000	1	II
13	TANGENT	20	25	1	1	0.00	0.00	0.0000	0.0000	1	II
14	TANGENT	25	30	1	1	0.00	0.00	0.0000	0.0000	1	II
15	TANGENT	30	31	1	2	0.00	0.00	0.0000	0.0000	1	II
16	BEND	31	33	1	2	0.00	0.00	0.0000	0.0000	1	IC
						(4.500)	()	(-141.000)	(-71.040)	(-24.000)	(.1000)
17	TANGENT	33	35	1	2	0.00	0.00	0.0000	0.0000	1	II
18	TANGENT	35	40	1	2	0.00	0.00	0.0000	0.0000	1	II
19	TANGENT	40	41	1	2	0.00	0.00	0.0000	0.0000	1	II
20	BEND	41	43	1	2	0.00	0.00	0.0000	0.0000	1	IC
						(4.500)	()	(-141.000)	(-71.040)	(-106.560)	(.1000)
21	TANGENT	43	45	2	2	0.00	0.00	0.0000	0.0000	1	II
22	TANGENT	45	46	1	2	0.00	0.00	0.0000	0.0000	1	II
23	BEND	46	48	1	2	0.00	0.00	0.0000	0.0000	1	IC
						(4.500)	()	(-92.940)	(-71.040)	(-106.560)	(.1000)
24	TANGENT	48	50	1	2	0.00	0.00	0.0000	0.0000	1	II
25	TANGENT	50	55	2	2	0.00	0.00	0.0000	0.0000	1	II
26	TANGENT	55	60	1	1	0.00	0.00	0.0000	0.0000	1	II
27	TANGENT	60	65	1	1	0.00	0.00	0.0000	0.0000	1	II
28	TANGENT	65	70	1	1	0.00	0.00	0.0000	0.0000	1	II
29	TANGENT	70	71	1	2	0.00	0.00	0.0000	0.0000	1	II
30	BEND	71	73	1	2	0.00	0.00	0.0000	0.0000	1	IC
						(4.500)	()	(-279.000)	(-71.040)	(-24.000)	(.1000)
31	TANGENT	73	75	1	2	0.00	0.00	0.0000	0.0000	1	II
32	TANGENT	75	80	1	2	0.00	0.00	0.0000	0.0000	1	II
33	TANGENT	80	81	1	2	0.00	0.00	0.0000	0.0000	1	II
34	BEND	81	83	1	2	0.00	0.00	0.0000	0.0000	1	IC
						(4.500)	()	(-279.000)	(-71.040)	(-106.560)	(.1000)

THE ELEMENT INPUT DATA

ELEMENT NUMBER	ELEMENT TYPE	NODE -I	NODE -J	MATL. NUMBER	SECTION NUMBER	REFERENCE TEMPERATURE (BEND RADIUS)	INTERNAL PRESSURE (THIRD POINT)	D I R E C T I O N A L C O O R D I N A T E S A (XX) A (YY) A (ZZ)	(X3- ORDINATE)	(Y3- ORDINATE)	(Z3- ORDINATE)	NODE INCREMENT (WALL FRACTION)	INPUT TAG
35	TANGENT	84	85	2	2	0.00	0.00	0.0000	0.0000	0.0000	1	11	
36	TANGENT	85	86	1	2	0.00	0.00	0.0000	0.0000	0.0000	1	11	
37	BEND	86	88	1	2	0.00	0.00					10	
						(4.500)	()	(-230.940)(	(-71.040)(	(-106.560)	(.1000)		
38	TANGENT	88	90	1	2	0.00	0.00	0.0000	0.0000	0.0000	1	11	
39	TANGENT	90	95	2	2	0.00	0.00	0.0000	0.0000	0.0000	1	11	
40	TANGENT	70	98	1	1	0.00	0.00	0.0000	0.0000	0.0000	1	11	
41	TANGENT	98	100	1	1	0.00	0.00	0.0000	0.0000	0.0000	1	11	
42	TANGENT	100	105	1	2	0.00	0.00	0.0000	0.0000	0.0000	1	11	
43	TANGENT	105	110	1	2	0.00	0.00	0.0000	0.0000	0.0000	1	11	
44	TANGENT	110	111	1	2	0.00	0.00	0.0000	0.0000	0.0000	1	11	
45	BEND	111	113	1	2	0.00	0.00					10	
						(4.500)	()	(-417.000)(	(-71.040)(	(0.000)	(.1000)		
46	TANGENT	113	115	1	2	0.00	0.00	0.0000	0.0000	0.0000	1	11	
47	TANGENT	115	120	1	2	0.00	0.00	0.0000	0.0000	0.0000	1	11	
48	TANGENT	120	121	1	2	0.00	0.00	0.0000	0.0000	0.0000	1	11	
49	BEND	121	124	1	2	0.00	0.00					10	
						(4.500)	()	(-417.000)(	(-71.040)(	(-106.680)	(.1000)		
50	TANGENT	124	125	2	2	0.00	0.00	0.0000	0.0000	0.0000	1	11	
51	TANGENT	125	126	1	2	0.00	0.00	0.0000	0.0000	0.0000	1	11	
52	BEND	126	128	1	2	0.00	0.00					10	
						(4.500)	()	(-368.940)(	(-71.040)(	(-106.680)	(.1000)		
53	TANGENT	128	130	1	2	0.00	0.00	0.0000	0.0000	0.0000	1	11	
54	TANGENT	130	140	2	2	0.00	0.00	0.0000	0.0000	0.0000	1	11	

BOUNDARY ELEMENTS

ELEMENT TYPE 7
 NUMBER OF ELEMENTS 30

ELEMENT LOAD CASE MULTIPLIERS

CASE(A) CASE(H) CASE(C) CASE(D)
 1.0000 0.0000 0.0000 0.0000

ELEMENT NUMBER	NODE (N)	NODES DEFINING (NI)	CONSTRAINT (CI)	DIRECTION (NK)	(NL)	CODE KD	CODE KR	GENERATION CODE (KN)	SPECIFIED DISPLACEMENT	SPECIFIED ROTATION	SPRING RATE
1	10	141	0	0	0	1	0	0	0.	0.	.1000E+01
2	40	142	0	0	0	1	0	0	0.	0.	.1000E+01
3	80	143	0	0	0	1	0	0	0.	0.	.1000E+01
4	120	144	0	0	0	1	0	0	0.	0.	.1000E+01
5	20	145	0	0	0	1	0	0	0.	0.	.1000E+10
6	110	146	0	0	0	1	0	0	0.	0.	.1000E+10
7	55	147	0	0	0	1	0	0	0.	0.	.1000E+10
8	55	149	0	0	0	1	0	0	0.	0.	.1000E+10
9	55	151	0	0	0	1	0	0	0.	0.	.1000E+10
10	65	153	0	0	0	1	0	0	0.	0.	.1000E+10
11	65	155	0	0	0	1	0	0	0.	0.	.1000E+10
12	65	157	0	0	0	1	0	0	0.	0.	.1000E+10
13	95	159	0	0	0	1	0	0	0.	0.	.1000E+10
14	95	161	0	0	0	1	0	0	0.	0.	.1000E+10
15	95	163	0	0	0	1	0	0	0.	0.	.1000E+10
16	140	165	0	0	0	1	0	0	0.	0.	.1000E+10
17	140	167	0	0	0	1	0	0	0.	0.	.1000E+10
18	140	169	0	0	0	1	0	0	0.	0.	.1000E+10
19	55	148	0	0	0	0	1	0	0.	0.	.1000E+12
20	55	150	0	0	0	0	1	0	0.	0.	.1000E+12
21	55	152	0	0	0	0	1	0	0.	0.	.1000E+12
22	65	154	0	0	0	0	1	0	0.	0.	.1000E+12
23	65	156	0	0	0	0	1	0	0.	0.	.1000E+12
24	65	158	0	0	0	0	1	0	0.	0.	.1000E+12
25	95	160	0	0	0	0	1	0	0.	0.	.1000E+12
26	95	162	0	0	0	0	1	0	0.	0.	.1000E+12
27	95	164	0	0	0	0	1	0	0.	0.	.1000E+12
28	140	166	0	0	0	0	1	0	0.	0.	.1000E+12
29	140	168	0	0	0	0	1	0	0.	0.	.1000E+12
30	140	170	0	0	0	0	1	0	0.	0.	.1000E+12

EQUATION PARAMETERS

TOTAL NUMBER OF EQUATIONS	■	324
WIDTH	■	73
NUMBER OF EQUATIONS IN A BLOCK	■	127
NUMBER OF BLOCKS	■	3

NODAL LOADS (STATIC) OR MASSES (DYNAMIC)

NODE NUMBER	LOAD CASE	X-AXIS FORCE	Y-AXIS FORCE	Z-AXIS FORCE	X-AXIS MOMENT	Y-AXIS MOMENT	Z-AXIS MOMENT
5	0	.47179E+00	.47179E+00	.47179E+00	0.	0.	0.
10	0	.37604E+00	.37604E+00	.37604E+00	0.	0.	0.
15	0	.40399E+00	.40399E+00	.40399E+00	0.	0.	0.
20	0	.35016E+00	.35016E+00	.35016E+00	0.	0.	0.
25	0	.22179E+00	.22179E+00	.22179E+00	0.	0.	0.
30	0	.33799E+00	.33799E+00	.33799E+00	0.	0.	0.
35	0	.14441E+00	.14441E+00	.14441E+00	0.	0.	0.
40	0	.26889E+00	.26889E+00	.26889E+00	0.	0.	0.
45	0	.29011E+00	.29011E+00	.29011E+00	0.	0.	0.
50	0	.12733E+00	.12733E+00	.12733E+00	0.	0.	0.
60	0	.22386E+00	.22386E+00	.22386E+00	0.	0.	0.
65	0	.20990E+00	.20990E+00	.20990E+00	0.	0.	0.
70	0	.28620E+00	.28620E+00	.28620E+00	0.	0.	0.
75	0	.14441E+00	.14441E+00	.14441E+00	0.	0.	0.
80	0	.33799E+00	.33799E+00	.33799E+00	0.	0.	0.
85	0	.29011E+00	.29011E+00	.29011E+00	0.	0.	0.
90	0	.12733E+00	.12733E+00	.12733E+00	0.	0.	0.
105	0	.19358E+00	.19358E+00	.19358E+00	0.	0.	0.
110	0	.18737E+00	.18737E+00	.18737E+00	0.	0.	0.
115	0	.18737E+00	.18737E+00	.18737E+00	0.	0.	0.
120	0	.31366E+00	.31366E+00	.31366E+00	0.	0.	0.
125	0	.29736E+00	.29736E+00	.29736E+00	0.	0.	0.
130	0	.12733E+00	.12733E+00	.12733E+00	0.	0.	0.

-342-

STRUCTURE LOAD CASE	ELEMENT A	LOAD B	MULTIPLIERS C	D
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1	0.000	0.000	0.000	0.000
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PR F FREQUENCIES

MODE NUMBER	CIRCULAR FREQUENCY (RAD/SEC)	FREQUENCY (CYCLES/SEC)	PERIOD (SEC)	TOLERANCE
1	.3163E+02	.5034E+01	.1987E+00	.2546E-13
2	.4909E+02	.7813E+01	.1280E+00	.6039E-14
3	.5148E+02	.8193E+01	.1221E+00	.1098E-13
4	.5641E+02	.8977E+01	.1114E+00	.4574E-14
5	.5851E+02	.9312E+01	.1074E+00	.4251E-14
6	.6217E+02	.9895E+01	.1011E+00	0.
7	.8307E+02	.1322E+02	.7563E-01	0.
8	.9398E+02	.1496E+02	.6686E-01	.1318E-13
9	.9467E+02	.1507E+02	.6637E-01	0.
10	.1116E+03	.1775E+02	.5632E-01	0.
11	.1144E+03	.1821E+02	.5492E-01	.3513E-12
12	.1439E+03	.2290E+02	.4367E-01	.7299E-11
13	.1572E+03	.2502E+02	.3996E-01	.5465E-10
14	.1625E+03	.2585E+02	.3866E-01	.1939E-10
15	.1693E+03	.2694E+02	.3712E-01	.1641E-10
16	.1768E+03	.2813E+02	.3555E-01	.3581E-09
17	.1904E+03	.3030E+02	.3300E-01	.6700E-09
18	.2213E+03	.3522E+02	.2839E-01	.6810E-07
19	.2331E+03	.3710E+02	.2696E-01	.4003E-07
20	.2677E+03	.4261E+02	.2347E-01	.2796E-05
21	.2791E+03	.4442E+02	.2251E-01	.5759E-07
22	.3022E+03	.4809E+02	.2079E-01	.4401E-05

-343-

EIGENSOLUTION TIME LOG

EIGENSOLUTION = 13.01
 PRINTING = .02

CASE 1

DIRECTION FACTORS

X = 1.0000 Y = 1.0000 Z = 1.0000

INDICATOR FOR DISPLACEMENT OR ACCELERATION SPECTRUM = 1

EQ.0 DISPLACEMENT
EQ.1 ACCELERATION IN IN./SEC.²
EQ.2 ACCELERATION IN GS

3 SPECTRA ARE ENTERED FOR CASE 1. KIND= 2

CLUSTER FACTOR, CF = .10000

MODE	X-DIRECTION	Y-DIRECTION	Z-DIRECTION
	.1767E+00	-.5859E+00	.1158E+01
2	.2640E-01	-.2509E+00	.1087E+01
3	.1075E+00	.4332E+00	.4466E+00
4	.8750E+00	-.1627E+00	-.5389E+00
5	.2013E+00	.1108E+01	.3663E-01
6	.2313E+00	.9298E+00	-.6930E-02
7	.5161E+00	.4329E+00	.7982E+00
8	.2376E-01	-.4144E-01	-.6644E+00
9	.1017E+00	.6804E-01	.7462E-01
10	-.1031E+00	-.3096E+00	.7996E-01
11	.8267E-01	-.1011E+01	-.1586E+00
12	-.7494E+00	.2269E+00	.4477E+00
13	-.5778E+00	.1573E+00	.2772E+00
14	.2997E+00	-.3932E+00	.1693E+00
15	-.1210E-01	-.3434E-02	.2138E+00
16	.5259E+00	.3905E-01	-.2970E-01
17	-.8314E+00	-.1232E+00	-.2218E+00
18	-.5667E-01	-.2974E+00	-.1453E+00
19	-.1751E+00	.2175E+00	-.1007E+00
20	.2716E+00	-.1334E+00	.1614E+00
21	-.1399E-02	-.2031E+00	-.2272E-01
22	.1150E+00	.1509E+00	.2600E-01

SPECTRUM TABLE (ONE SPECTRUM X DIRECTION

NUMBER OF POINTS = 11
 SCALE FACTOR = .38640E+03

INPUT POINT	PERIOD	SPECTRUM VALUE
1	.1000E+01	.1300E+00
2	.1000E+00	.1300E+00
3	.3100E+00	.1650E+01
4	.3500E+00	.3500E+00
5	.5000E+00	.5500E+00
6	.5800E+00	.1900E+01

4	.3500E+00	.3500E+00
5	.5000E+00	.5500E+00
6	.5800E+00	.1900E+01

7	.8050E+00	.1700E+01
8	.9000E+00	.4500E+00
9	.1000E+01	.1800E+00
10	.1100E+01	.1000E+00
11	.1200E+01	.7000E-01

SPECTRUM TABLE (ORE SPECTRUM Y DIRECTION)

NUMBER OF POINTS = 11
SCALE FACTOR = .38640E+03

INPUT POINT	PERIOD	SPECTRUM VALUE
1	.1000E-01	.2000E+00
2	.1000E+00	.2000E+00
3	.2200E+00	.3000E+00
4	.3200E+00	.1000E+01
5	.3700E+00	.2150E+01
6	.4200E+00	.2150E+01
7	.5200E+00	.2550E+01
8	.6000E+00	.6000E+00
9	.7000E+00	.3000E+00
10	.8000E+00	.2000E+00
11	.1100E+01	.1200E+00

-346- SPECTRUM TABLE (ORE SPECTRUM Z DIRECTION)

NUMBER OF POINTS = 11
SCALE FACTOR = .38640E+03

INPUT POINT	PERIOD	SPECTRUM VALUE
1	.1000E-01	.1300E+00
2	.1000E+00	.1300E+00
3	.3100E+00	.1650E+01
4	.3500E+00	.3500E+00
5	.5000E+00	.5500E+00
6	.5800E+00	.1900E+01
7	.8050E+00	.1700E+01
8	.9000E+00	.4500E+00
9	.1000E+01	.1800E+00
10	.1100E+01	.1000E+00
11	.1200E+01	.7000E-01

CLUSTERING. +1 MEANS MODE 1 CLOSE TO 1+1. -1, NOT.

-1 -1. 1. -1. -1. -1. 1. -1. 1. -1. 1. -1. 1. 1. -1. -1. 1. -1. 1. -1. 0.

Solution 7a

Interspatial/Intermodal Combination

MODE DISPLACEMENTS / ROTATIONS

MODE NUMBER	MODE NUMBER	X- TRANSLATION	Y- TRANSLATION	Z- TRANSLATION	X- ROTATION	Y- ROTATION	Z- ROTATION
1	TOTAL..	0.	0.	0.	0.	0.	0.
2	TOTAL..	1.55467E-04	1.19429E-05	1.57043E-03	4.94392E-04	1.48708E-04	4.34529E-05
3	TOTAL..	0.	0.	0.	0.	0.	0.
4	TOTAL..	3.43767E-03	1.26260E-02	1.01751E-02	2.94328E-03	5.96540E-04	2.87845E-04
5	TOTAL..	2.98119E-02	1.37103E-01	1.02461E-02	4.65163E-03	9.90675E-04	4.81667E-04
6	TOTAL..	4.59000E-02	2.12881E-01	1.02577E-02	4.83055E-03	1.02069E-03	5.14153E-04
7	TOTAL..	0.	0.	0.	0.	0.	0.
8	TOTAL..	5.56728E-02	2.43834E-01	4.25266E-02	5.62345E-03	1.11966E-03	6.28901E-04
9	TOTAL..	0.	0.	0.	0.	0.	0.
10	TOTAL..	6.69469E-02	2.43860E-01	1.45987E-01	5.79563E-03	1.18029E-03	6.56294E-04
11	TOTAL..	8.48200E-02	2.43879E-01	3.11549E-01	5.47786E-03	1.27868E-03	6.02891E-04
12	TOTAL..	0.	0.	0.	0.	0.	0.
13	TOTAL..	8.01243E-02	2.14122E-01	3.42716E-01	4.65258E-03	1.36786E-03	4.99897E-04
14	TOTAL..	0.	0.	0.	0.	0.	0.
15	TOTAL..	5.49671E-02	1.34255E-01	3.42747E-01	4.24573E-03	1.43553E-03	4.08731E-04
16	TOTAL..	9.78727E-03	1.35970E-02	3.42760E-01	3.68913E-03	1.57519E-03	2.63851E-04
17	TOTAL..	0.	0.	0.	0.	0.	0.
	TOTAL..	6.49782E-05	4.35479E-03	3.32962E-01	3.33059E-03	1.75744E-03	2.84140E-04

21 TOTAL..	0.	0.	0.	0.	0.	0.
22 TOTAL..	0.	0.	0.	0.	0.	0.
23 TOTAL..	0.	0.	0.	0.	0.	0.
24 TOTAL..	0.	0.	0.	0.	0.	0.
25 TOTAL..	5.23602E-05	6.00105E-03	2.34972E-01	2.43411E-03	2.11064E-03	1.28069E-04
26 TOTAL..	0.	0.	0.	0.	0.	0.
27 TOTAL..	0.	0.	0.	0.	0.	0.
28 TOTAL..	0.	0.	0.	0.	0.	0.
29 TOTAL..	0.	0.	0.	0.	0.	0.
30 TOTAL..	3.48248E-05	1.17290E-03	1.12155E-01	1.16055E-03	1.86262E-03	6.52953E-05
31 TOTAL..	3.30127E-02	2.67953E-02	7.92335E-02	5.74425E-04	9.99972E-04	2.24042E-04
32 TOTAL..	0.	0.	0.	0.	0.	0.
33 TOTAL..	3.50002E-02	2.85453E-02	7.80705E-02	4.59425E-04	6.50237E-04	2.41921E-04
34 TOTAL..	0.	0.	0.	0.	0.	0.
35 TOTAL..	4.24359E-02	3.51292E-02	7.80024E-02	2.75541E-04	7.69832E-05	3.54256E-04
36 TOTAL..	0.	0.	0.	0.	0.	0.
37 TOTAL..	0.	0.	0.	0.	0.	0.
38 TOTAL..	0.	0.	0.	0.	0.	0.
39 TOTAL..	0.	0.	0.	0.	0.	0.

40 TOTAL..	2.63131E-02	3.53276E-02	7.80325E-02	3.09803E-04	8.87441E-04	5.58861E-04
41 TOTAL..	6.48675E-03	3.36676E-02	7.89109E-02	3.73241E-04	1.25624E-03	6.71435E-04
42 TOTAL..	0.	0.	0.	0.	0.	0.
43 TOTAL..	0.	0.	0.	0.	0.	0.
44 TOTAL..	5.12001E-03	2.97545E-02	7.13880E-02	4.03940E-04	1.57075E-03	7.37457E-04
45 TOTAL..	5.12026E-03	1.73420E-02	4.90733E-02	4.10438E-04	1.59582E-03	7.42830E-04
46 TOTAL..	5.11963E-03	2.15639E-03	1.18213E-02	4.47595E-04	1.26529E-03	5.77911E-04
47 TOTAL..	0.	0.	0.	0.	0.	0.
48 TOTAL..	3.37486E-03	1.25455E-05	5.29494E-03	3.16719E-04	8.21938E-04	2.83679E-04
49 TOTAL..	0.	0.	0.	0.	0.	0.
50 TOTAL..	6.13983E-04	3.23593E-06	1.29778E-03	1.43780E-04	2.09646E-04	7.50575E-05
51 TOTAL..	0.	0.	0.	0.	0.	0.
52 TOTAL..	0.	0.	0.	0.	0.	0.
53 TOTAL..	0.	0.	0.	0.	0.	0.
54 TOTAL..	0.	0.	0.	0.	0.	0.
55 TOTAL..	3.43001E-08	4.87838E-08	1.16540E-07	3.68907E-08	3.18684E-08	1.57941E-08
56 TOTAL..	0.	0.	0.	0.	0.	0.
57 TOTAL..	0.	0.	0.	0.	0.	0.
ITAL..	0.	0.	0.	0.	0.	0.

60 TOTAL..	1.74308E-05	4.42273E-03	3.39883E-02	5.80285E-04	1.24327E-03	1.34468E-04
61 TOTAL..	0.	0.	0.	0.	0.	0.
62 TOTAL..	0.	0.	0.	0.	0.	0.
63 TOTAL..	0.	0.	0.	0.	0.	0.
64 TOTAL..	0.	0.	0.	0.	0.	0.
65 TOTAL..	6.90855E-08	5.39812E-08	9.64217E-08	2.56462E-08	9.33429E-08	2.86747E-08
66 TOTAL..	0.	0.	0.	0.	0.	0.
67 TOTAL..	0.	0.	0.	0.	0.	0.
68 TOTAL..	0.	0.	0.	0.	0.	0.
69 TOTAL..	0.	0.	0.	0.	0.	0.
70 TOTAL..	1.76931E-05	5.89875E-03	6.02747E-03	1.71538E-04	2.71135E-04	2.34993E-04
71 TOTAL..	3.74323E-03	1.79799E-02	1.02436E-02	3.30218E-04	9.93925E-05	4.15387E-04
72 TOTAL..	0.	0.	0.	0.	0.	0.
73 TOTAL..	3.93686E-03	1.95929E-02	1.03677E-02	3.60257E-04	8.32334E-05	4.39643E-04
74 TOTAL..	0.	0.	0.	0.	0.	0.
75 TOTAL..	4.41899E-03	2.63046E-02	1.03672E-02	3.49943E-04	1.00662E-04	5.32264E-04
76 TOTAL..	0.	0.	0.	0.	0.	0.
77 TOTAL..	0.	0.	0.	0.	0.	0.
78 TOTAL..	0.	0.	0.	0.	0.	0.
79 TOTAL..	0.	0.	0.	0.	0.	0.

H0 TOTAL..	5.43412E-03	3.54243E-02	1.03041E-02	1.77746E-04	7.68328E-05	6.99805E-04
H1 TOTAL..	6.22927E-03	3.75095E-02	1.03496E-02	9.84628E-05	7.08600E-05	7.92502E-04
H2 TOTAL..	0.	0.	0.	0.	0.	0.
H3 TOTAL..	0.	0.	0.	0.	0.	0.
H4 TOTAL..	6.37858E-03	3.00765E-02	9.77448E-03	7.03821E-05	1.74520E-04	8.45022E-04
H5 TOTAL..	6.37804E-03	2.21678E-02	7.20060E-03	6.82598E-05	1.92937E-04	8.47790E-04
H6 TOTAL..	6.37317E-03	2.52410E-03	2.17338E-03	7.62840E-05	1.84593E-04	6.67076E-04
H7 TOTAL..	0.	0.	0.	0.	0.	0.
H8 TOTAL..	4.30351E-03	1.29520E-05	1.16104E-03	6.54617E-05	1.24311E-04	3.45536E-04
H9 TOTAL..	0.	0.	0.	0.	0.	0.
90 TOTAL..	8.10396E-04	3.30060E-05	2.97528E-04	3.20971E-05	3.17070E-05	9.80926E-05
91 TOTAL..	0.	0.	0.	0.	0.	0.
92 TOTAL..	0.	0.	0.	0.	0.	0.
93 TOTAL..	0.	0.	0.	0.	0.	0.
94 TOTAL..	0.	0.	0.	0.	0.	0.
95 TOTAL..	2.93189E-08	5.03607E-08	2.72146E-08	8.57762E-09	4.81980E-09	2.09749E-08
96 TOTAL..	0.	0.	0.	0.	0.	0.
97 TOTAL..	0.	0.	0.	0.	0.	0.
TOTAL..	1.88508E-05	9.85006E-03	7.79223E-03	1.71065E-04	2.98141E-04	2.34819E-04
99 TOTAL..	0.	0.	0.	0.	0.	0.

100 TOTAL..	2.00633E-05	7.74822E-03	9.02265E-03	1.71396E-04	3.22508E-04	2.34167E-04
101 TOTAL..	0.	0.	0.	0.	0.	0.
102 TOTAL..	0.	0.	0.	0.	0.	0.
103 TOTAL..	0.	0.	0.	0.	0.	0.
104 TOTAL..	0.	0.	0.	0.	0.	0.
105 TOTAL..	4.54387E-05	1.62307E-02	3.79419E-02	2.29705E-04	6.46666E-04	9.18959E-05
106 TOTAL..	0.	0.	0.	0.	0.	0.
107 TOTAL..	0.	0.	0.	0.	0.	0.
108 TOTAL..	0.	0.	0.	0.	0.	0.
109 TOTAL..	0.	0.	0.	0.	0.	0.
110 TOTAL..	7.04865E-05	5.14168E-05	6.64138E-02	3.60947E-04	2.37774E-04	6.42947E-04
111 TOTAL..	8.73793E-05	3.20140E-02	6.70654E-02	4.53642E-04	1.80813E-04	9.87215E-04
112 TOTAL..	0.	0.	0.	0.	0.	0.
113 TOTAL..	1.24102E-03	3.65897E-02	6.61594E-02	4.84206E-04	2.96340E-04	1.02937E-03
114 TOTAL..	0.	0.	0.	0.	0.	0.
115 TOTAL..	5.59744E-03	4.47974E-02	6.61572E-02	4.61922E-04	3.30640E-04	1.05855E-03
116 TOTAL..	0.	0.	0.	0.	0.	0.
117 TOTAL..	0.	0.	0.	0.	0.	0.
118 TOTAL..	0.	0.	0.	0.	0.	0.
119 TOTAL..	0.	0.	0.	0.	0.	0.

120 TOTAL..	1.47785E-02	6.01021E-02	6.01252E-02	1.11433E-04	2.28419E-04	1.19434E-03
121 TOTAL..	6.86057E-03	5.74350E-02	6.60474E-02	2.05579E-04	7.26804E-04	1.25148E-03
122 TOTAL..	0.	0.	0.	0.	0.	0.
123 TOTAL..	0.	0.	0.	0.	0.	0.
124 TOTAL..	9.84015E-03	5.07603E-02	6.13372E-02	2.47327E-04	1.22960E-03	1.28033E-03
125 TOTAL..	9.83899E-03	3.28203E-02	4.35108E-02	2.58435E-04	1.29639E-03	1.27119E-03
126 TOTAL..	9.83025E-03	3.75527E-03	1.15059E-02	3.90520E-04	1.12153E-03	9.84981E-04
127 TOTAL..	0.	0.	0.	0.	0.	0.
128 TOTAL..	6.66201E-03	1.56030E-05	5.58209E-03	3.15893E-04	7.42035E-04	5.29351E-04
129 TOTAL..	0.	0.	0.	0.	0.	0.
130 TOTAL..	1.25785E-03	0.02456E-05	1.42024E-03	1.55534E-04	1.89265E-04	1.52260E-04
131 TOTAL..	0.	0.	0.	0.	0.	0.
132 TOTAL..	0.	0.	0.	0.	0.	0.
133 TOTAL..	0.	0.	0.	0.	0.	0.
134 TOTAL..	0.	0.	0.	0.	0.	0.
135 TOTAL..	0.	0.	0.	0.	0.	0.
136 TOTAL..	0.	0.	0.	0.	0.	0.
137 TOTAL..	0.	0.	0.	0.	0.	0.
138 TOTAL..	0.	0.	0.	0.	0.	0.
139 TOTAL..	0.	0.	0.	0.	0.	0.

140 TOTAL..	3.47672E-08	6.06728E-08	1.26528E-07	4.06284E-08	2.87703E-08	3.25071E-08
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TOTAL..	0.	0.	0.	0.	0.	0.
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142 TOTAL..	0.	0.	0.	0.	0.	0.
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143 TOTAL..	0.	0.	0.	0.	0.	0.
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144 TOTAL..	0.	0.	0.	0.	0.	0.
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145 TOTAL..	0.	0.	0.	0.	0.	0.
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146 TOTAL..	0.	0.	0.	0.	0.	0.
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147 TOTAL..	0.	0.	0.	0.	0.	0.
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148 TOTAL..	0.	0.	0.	0.	0.	0.
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149 TOTAL..	0.	0.	0.	0.	0.	0.
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150 TOTAL..	0.	0.	0.	0.	0.	0.
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151 TOTAL..	0.	0.	0.	0.	0.	0.
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152 TOTAL..	0.	0.	0.	0.	0.	0.
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153 TOTAL..	0.	0.	0.	0.	0.	0.
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154 TOTAL..	0.	0.	0.	0.	0.	0.
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155 TOTAL..	0.	0.	0.	0.	0.	0.
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156 TOTAL..	0.	0.	0.	0.	0.	0.
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157 TOTAL..	0.	0.	0.	0.	0.	0.
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158 TOTAL..	0.	0.	0.	0.	0.	0.
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159 TOTAL..	0.	0.	0.	0.	0.	0.
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160 TOTAL..	0.	0.	0.	0.	0.	0.
161 TOTAL..	0.	0.	0.	0.	0.	0.
162 TOTAL..	0.	0.	0.	0.	0.	0.
163 TOTAL..	0.	0.	0.	0.	0.	0.
164 TOTAL..	0.	0.	0.	0.	0.	0.
165 TOTAL..	0.	0.	0.	0.	0.	0.
166 TOTAL..	0.	0.	0.	0.	0.	0.
167 TOTAL..	0.	0.	0.	0.	0.	0.
168 TOTAL..	0.	0.	0.	0.	0.	0.
169 TOTAL..	0.	0.	0.	0.	0.	0.
170 TOTAL..	0.	0.	0.	0.	0.	0.

RESPONSE SPECTRUM STRESS COMPONENTS (KIND = 2)

OR ELEMENT, THE FOLLOWING INFORMATION IS PRINTED:

1. FOR EACH EARTH QUAKE DIRECTION, THE NUMBER OF THE MODE WITH THE LARGEST STRESS.
 2. THE VALUE OF THAT STRESS.
 3. IF REQUESTED, THE MODE BY MODE STRESSES FOR EACH EARTH QUAKE DIRECTION.
 4. THE RESULTANT FOR EACH EARTH QUAKE DIRECTION.
 5. THE GRAND TOTAL OF THE THREE EARTH QUAKE DIRECTIONS.
- (NOTE: THE X, Y, OR Z REFERS TO THE EARTH QUAKE DIRECTION.)

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (1)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	4	4	4	1	1	1	4	4	4	1
X MAXIMUM	3.481E+01	3.941E+01	3.957E+01	2.103E+03	6.102E+02	3.249E+03	3.481E+01	3.941E+01	3.957E+01	2.103E+03	3.788E+02	3.063E+03
Y	1	1	1	1	1	1	1	1	1	1	1	1
Y MAXIMUM	-3.858E+01	-4.368E+01	1.047E+01	-6.964E+02	-3.254E+02	-3.657E+03	-3.858E+01	-4.368E+01	1.047E+01	-6.964E+02	-2.626E+02	-3.394E+03
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	2.240E+02	2.582E+02	6.190E+01	4.116E+03	1.924E+03	2.101E+04	2.280E+02	2.582E+02	6.190E+01	4.116E+03	1.552E+03	2.006E+04
GRAND TOTAL	2.369E+02	2.665E+02	8.072E+01	4.947E+03	2.106E+03	2.217E+04	2.369E+02	2.665E+02	8.072E+01	4.947E+03	1.656E+03	2.059E+04

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (2)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	1	1	4	4	4	1	7	1	4	4	4	1
X MAXIMUM	3.481E+01	3.941E+01	3.957E+01	2.103E+03	3.788E+02	3.063E+03	-1.086E+01	-5.248E+01	3.957E+01	1.288E+03	-1.587E+03	-2.835E+03
Y	1	1	1	1	1	1	11	1	1	1	1	1
Y MAXIMUM	-3.858E+01	4.368E+01	-1.047E+01	-6.964E+02	2.626E+02	3.394E+03	-4.054E+01	5.816E+01	-1.047E+01	-3.251E+02	6.337E+02	3.141E+03
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	2.240E+02	2.582E+02	6.190E+01	4.116E+03	-1.552E+03	-2.006E+04	-2.132E+01	-3.438E+02	6.190E+01	1.922E+03	-3.745E+03	-1.857E+04
GRAND TOTAL	2.369E+02	2.665E+02	8.072E+01	4.947E+03	1.656E+03	2.059E+04	5.266E+01	3.527E+02	8.072E+01	2.546E+03	4.295E+03	1.906E+04

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (2)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	4	1	4	1
X MAXIMUM	-3.941E+01	-3.481E+01	3.957E+01	-1.603E+02	-1.805E+03	-2.618E+03
Y	1	1	1	1	1	1
Y MAXIMUM	4.368E+01	3.858E+01	-1.047E+01	1.998E+02	6.335E+02	2.901E+03
Z	1	1	1	1	1	1
Z MAXIMUM	-2.582E+02	-2.240E+02	6.190E+01	-1.181E+03	-3.745E+03	-1.715E+04
GRAND TOTAL	2.665E+02	2.369E+02	8.072E+01	1.233E+03	4.408E+03	1.760E+04

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (3)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	4	1	4	1	1	1	4	1	4	1
X MAXIMUM	-3.941E+01	-3.481E+01	3.957E+01	-1.603E+02	-1.805E+03	-2.618E+03	-3.941E+01	-3.481E+01	3.957E+01	-1.603E+02	-5.975E+02	-1.502E+03
Y	1	1	1	1	1	1	1	1	1	1	1	1
Y MAXIMUM	4.368E+01	3.858E+01	-1.047E+01	1.998E+02	6.335E+02	2.901E+03	4.368E+01	3.858E+01	-1.047E+01	1.998E+02	2.980E+02	1.665E+03
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	-2.582E+02	-2.240E+02	6.190E+01	-1.181E+03	-3.745E+03	-1.715E+04	-2.582E+02	-2.240E+02	6.190E+01	-1.181E+03	-1.761E+03	-9.841E+03
GRAND TOTAL	2.665E+02	2.369E+02	8.072E+01	1.233E+03	4.408E+03	1.760E+04	2.665E+02	2.369E+02	8.072E+01	1.233E+03	1.947E+03	1.011E+04

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (4)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	4	1	4	1	1	1	4	1	4	1
X MAXIMUM	-3.809E+01	-2.518E+01	2.153E+01	-1.603E+02	-5.975E+02	-1.502E+03	-3.809E+01	-2.518E+01	2.153E+01	-1.603E+02	-2.539E+02	-1.100E+03

	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Y MAXIMUM	4.248E+01	2.791E+01	-8.452E+00	1.998E+02	2.980E+02	1.665E+03	4.288E+01	2.791E+01	-8.452E+00	1.998E+02	1.631E+02	1.220E+03			
Z MAXIMUM	-2.534E+02	-1.650E+02	4.995E+01	-1.181E+03	-1.701E+03	-4.841E+03	-2.534E+02	-1.650E+02	4.995E+01	-1.181E+03	-9.640E+02	-7.208E+03			
GRAND TOTAL	2.619E+02	1.701E+02	5.751E+01	1.233E+03	1.947E+03	1.011E+04	2.619E+02	1.701E+02	5.751E+01	1.233E+03	1.038E+03	7.444E+03			

ELEMENT TYPE (3/0) P I P E) / / / ELEMENT NUMBER (5)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	1	1	4	1	4	1	1	1	4	4	1	1
X MAXIMUM	-3.869E+01	2.518E+01	-2.153E+01	-1.603E+02	2.534E+02	1.100E+03	-9.552E+00	4.516E+01	-2.153E+01	4.169E+01	1.992E+02	9.256E+02
Y	1	1	1	1	1	1	1	1	1	1	1	1
Y MAXIMUM	4.248E+01	2.791E+01	-8.452E+00	1.998E+02	-1.631E+02	-1.220E+03	-2.919E+01	-5.005E+01	-8.452E+00	4.078E+01	-2.207E+02	-1.026E+03
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	-2.534E+02	-1.650E+02	4.995E+01	-1.181E+03	9.640E+02	7.208E+03	-6.257E+01	2.958E+02	4.995E+01	-2.410E+02	1.305E+03	6.063E+03
GRAND TOTAL	2.619E+02	1.701E+02	5.751E+01	1.233E+03	1.038E+03	7.444E+03	7.292E+01	3.037E+02	5.751E+01	2.637E+02	1.367E+03	6.282E+03

ELEMENT TYPE (3/0) P I P E) / / / ELEMENT NUMBER (5)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	4	4	1	1
X MAXIMUM	2.518E+01	3.869E+01	-2.153E+01	1.247E+02	1.345E+02	7.172E+02
Y	1	1	1	1	1	1
Y MAXIMUM	-2.791E+01	-4.288E+01	-8.452E+00	-1.124E+02	-1.041E+02	-7.948E+02
Z	1	1	1	1	1	1
Z MAXIMUM	1.650E+02	2.534E+02	4.995E+01	6.643E+02	8.810E+02	4.648E+03
GRAND TOTAL	1.701E+02	2.619E+02	5.751E+01	7.031E+02	9.142E+02	4.842E+03

ELEMENT TYPE (3/0) P I P E) / / / ELEMENT NUMBER (6)

-358-

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	4	4	1	1	1	1	4	4	4	7
X MAXIMUM	2.518E+01	3.869E+01	-2.153E+01	1.247E+02	1.345E+02	7.172E+02	2.518E+01	3.869E+01	-2.153E+01	1.247E+02	-3.752E+02	8.527E+01
Y	1	1	1	1	1	1	1	1	1	1	6	11
Y MAXIMUM	-2.791E+01	-4.288E+01	-8.452E+00	-1.124E+02	-1.041E+02	-7.948E+02	-2.791E+01	-4.288E+01	-8.452E+00	-1.124E+02	-1.128E+02	1.316E+02
Z	1	1	1	1	1	1	1	1	1	1	4	1
Z MAXIMUM	1.650E+02	2.534E+02	4.995E+01	6.643E+02	8.810E+02	4.648E+03	1.650E+02	2.534E+02	4.995E+01	6.643E+02	2.311E+02	1.361E+02
GRAND TOTAL	1.701E+02	2.619E+02	5.751E+01	7.031E+02	9.142E+02	4.842E+03	1.701E+02	2.619E+02	5.751E+01	7.031E+02	4.899E+02	2.753E+02

ELEMENT TYPE (3/0) P I P E) / / / ELEMENT NUMBER (7)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	4	4	4	7	1	1	4	4	4	1
X MAXIMUM	1.157E+01	3.052E+01	6.961E+00	1.247E+02	-3.752E+02	8.527E+01	1.157E+01	3.052E+01	6.961E+00	1.247E+02	-1.731E+02	-8.655E+02
Y	1	1	7	6	11	1	1	1	7	1	1	1
Y MAXIMUM	-1.242E+01	-3.382E+01	5.310E+00	-1.124E+02	-1.128E+02	1.316E+02	-1.242E+01	-3.382E+01	5.310E+00	-1.124E+02	1.396E+02	9.591E+02
Z	1	1	1	1	4	1	1	1	1	1	1	1
Z MAXIMUM	7.578E+01	1.499E+02	-2.778E+01	6.643E+02	2.311E+02	1.361E+02	7.578E+01	1.499E+02	-2.778E+01	6.643E+02	-8.249E+02	-5.669E+03
GRAND TOTAL	7.799E+01	2.070E+02	3.153E+01	7.031E+02	4.849E+02	2.753E+02	7.799E+01	2.070E+02	3.153E+01	7.031E+02	8.940E+02	5.847E+03

ELEMENT TYPE (3/0) P I P E) / / / ELEMENT NUMBER (8)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	1	1	4	4	4	1	1	1	4	7	4	1
X MAXIMUM	1.157E+01	3.052E+01	6.961E+00	1.247E+02	-1.731E+02	-8.655E+02	2.976E+01	1.340E+01	6.961E+00	4.476E+01	-1.810E+02	-9.746E+02
Y	1	1	7	1	1	1	1	1	7	6	1	1
Y MAXIMUM	-1.242E+01	-3.382E+01	5.310E+00	-1.124E+02	1.396E+02	9.591E+02	-3.298E+01	-1.485E+01	5.310E+00	-1.252E+02	1.981E+02	1.080E+03
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	7.578E+01	1.499E+02	-2.778E+01	6.643E+02	-8.249E+02	-5.669E+03	1.919E+02	8.776E+01	-2.778E+01	-1.624E+02	-1.171	6.384E+03
GRAND TOTAL	7.799E+01	2.070E+02	3.153E+01	7.031E+02	4.849E+02	5.847E+03	2.014E+02	9.151E+01	3.153E+01	2.465E+02	1.234E+03	6.588E+03

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (8)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	4	1	1	1
X MAXIMUM	3.052E+01	-1.157E+01	6.961E+00	-1.514E+02	-1.204E+02	-9.741E+02
Y	1	1	7	1	1	1
Y MAXIMUM	-3.342E+01	1.242E+01	5.310E+00	1.678E+02	1.406E+02	1.045E+03
Z	1	1	1	1	1	1
Z MAXIMUM	1.944E+02	-7.578E+01	-2.774E+01	-9.916E+02	-8.310E+02	-6.414E+03
GRAND TOTAL	2.070E+02	7.709E+01	3.153E+01	1.060E+03	8.606E+02	6.621E+03

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (9)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	4	1	1	1	1	1	4	1	1	1
X MAXIMUM	3.052E+01	-1.157E+01	6.961E+00	-1.514E+02	-1.204E+02	-9.741E+02	3.052E+01	-1.157E+01	6.961E+00	-1.514E+02	-2.032E+02	-7.709E+02
Y	1	1	7	1	1	1	1	1	7	1	1	1
Y MAXIMUM	-3.342E+01	1.242E+01	5.310E+00	1.678E+02	1.406E+02	1.045E+03	-3.342E+01	1.242E+01	5.310E+00	1.678E+02	2.252E+02	8.543E+02
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	1.944E+02	-7.578E+01	-2.774E+01	-9.916E+02	-8.310E+02	-6.414E+03	1.944E+02	-7.578E+01	-2.774E+01	-9.916E+02	-1.331E+03	-5.050E+03
GRAND TOTAL	2.070E+02	7.749E+01	3.153E+01	1.060E+03	8.606E+02	6.621E+03	2.070E+02	7.749E+01	3.153E+01	1.060E+03	1.397E+03	5.221E+03

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (10)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	7	4	1	1	1	1	7	4	1	4	1
X MAXIMUM	9.902E+00	-4.963E+00	2.726E+01	-1.514E+02	-2.032E+02	-7.709E+02	9.902E+00	-4.963E+00	2.726E+01	-1.514E+02	8.600E+02	-6.659E+02
Y	1	11	7	1	1	1	1	11	7	1	7	1
Y MAXIMUM	-1.097E+01	-2.038E+01	4.334E+00	1.678E+02	2.252E+02	8.543E+02	-1.097E+01	-2.038E+01	4.334E+00	1.678E+02	3.720E+02	7.380E+02
Z	1	4	1	1	1	1	1	4	1	1	1	1
Z MAXIMUM	6.486E+01	-2.292E+01	-1.678E+01	-9.916E+02	-1.331E+03	-5.050E+03	6.486E+01	-2.292E+01	-1.678E+01	-9.916E+02	-1.554E+03	-4.362E+03
GRAND TOTAL	6.936E+01	3.331E+01	3.744E+01	1.060E+03	1.347E+03	5.221E+03	6.936E+01	3.331E+01	3.743E+01	1.060E+03	2.008E+03	4.479E+03

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (11)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	1	4	7	1	1	4	4	4	7	1	1	4
X MAXIMUM	9.902E+00	2.726E+01	4.963E+00	-1.514E+02	-6.659E+02	-8.600E+02	1.606E+01	2.249E+01	4.963E+00	-5.718E+02	-3.490E+02	-9.836E+02
Y	1	7	11	1	1	7	7	1	11	1	1	7
Y MAXIMUM	-1.097E+01	8.334E+00	2.038E+01	1.678E+02	7.340E+02	3.720E+02	1.247E+01	8.650E+00	2.038E+01	6.337E+02	3.888E+02	-3.910E+02
Z	1	4	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	6.486E+01	-1.678E+01	2.292E+01	-9.916E+02	-4.362E+03	1.554E+03	4.060E+01	-5.113E+01	2.292E+01	-3.745E+03	-2.286E+03	1.700E+03
GRAND TOTAL	6.936E+01	3.743E+01	3.331E+01	1.060E+03	4.479E+03	2.008E+03	5.133E+01	5.480E+01	3.331E+01	3.656E+03	2.355E+03	2.215E+03

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (11)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	4	1	7	1	1	4
X MAXIMUM	2.726E+01	-9.902E+00	4.963E+00	-6.449E+02	1.724E+02	-1.051E+03
Y	7	1	11	1	1	7
Y MAXIMUM	8.334E+00	1.097E+01	2.038E+01	7.148E+02	-1.910E+02	-3.662E+02
Z	4	1	1	1	1	1
Z MAXIMUM	-1.678E+01	-6.486E+01	2.292E+01	-4.225E+03	1.129E+03	1.988E+03
GRAND TOTAL	3.743E+01	6.936E+01	3.331E+01	4.343E+03	1.148E+03	2.445E+03

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (12)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	4	7	1	1	4	1	4	7	1	1	4	1

X MAXIMUM	2.726E+01	-4.463E+00	-9.902E+00	-6.449E+02	1.051E+03	1.724E+02	2.726E+01	-4.463E+00	-9.902E+00	-6.449E+02	1.123E+03	2.282E+02
Y	7	11	1	1	7	1	7	11	1	1	7	11
Y MAXIMUM	8.334E+00	-2.038E+01	1.097E+01	7.148E+02	3.602E+02	-1.910E+02	8.334E+00	-2.038E+01	1.097E+01	7.148E+02	5.115E+02	5.128E+02
Z	4	1	1	1	4	1	4	1	1	1	4	1
Z MAXIMUM	-1.678E+01	-2.202E+01	-6.486E+01	-4.225E+03	-1.944E+03	1.129E+03	-1.678E+01	-2.202E+01	-6.486E+01	-4.225E+03	-3.023E+03	1.495E+03
GRAND TOTAL	3.743E+01	3.331E+01	6.936E+01	4.343E+03	2.445E+03	1.148E+03	3.743E+01	3.331E+01	6.936E+01	4.343E+03	3.413E+03	1.628E+03

ELEMENT TYPE (3/D) P I P E / / / ELEMENT NUMBER (13)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	4	1	7	1	4	1	4	1	7	1	4	1
X MAXIMUM	2.730E+01	2.209E+00	-6.512E+00	-6.449E+02	1.123E+03	2.282E+02	2.730E+01	2.209E+00	-6.512E+00	-6.449E+02	1.129E+03	1.487E+02
Y	7	11	7	1	1	11	7	11	7	1	1	11
Y MAXIMUM	8.372E+00	1.696E+01	-8.403E+00	7.148E+02	5.115E+02	5.128E+02	8.372E+00	1.696E+01	-8.403E+00	7.148E+02	2.719E+02	-1.644E+02
Z	4	1	1	1	1	4	4	1	1	1	1	4
Z MAXIMUM	-1.681E+01	1.447E+01	3.933E+01	-4.225E+03	-3.023E+03	1.495E+03	-1.681E+01	1.447E+01	3.933E+01	-4.225E+03	-1.607E+03	9.740E+02
GRAND TOTAL	3.755E+01	2.386E+01	4.334E+01	4.343E+03	3.413E+03	1.628E+03	3.755E+01	2.386E+01	4.334E+01	4.343E+03	2.144E+03	1.038E+03

ELEMENT TYPE (3/D) P I P F / / / ELEMENT NUMBER (14)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	4	1	1	1	4	1	4	1	1	1	4	7
X MAXIMUM	2.732E+01	2.377E+00	1.375E+01	-6.449E+02	1.129E+03	1.487E+02	2.732E+01	2.377E+00	1.375E+01	-6.449E+02	6.683E+02	1.024E+02
Y	7	11	1	1	1	11	7	11	1	1	1	11
Y MAXIMUM	8.342E+00	4.756E+00	-1.524E+01	7.148E+02	2.719E+02	-1.648E+02	8.392E+00	4.756E+00	-1.524E+01	7.148E+02	-6.279E+02	-6.738E+02
Z	4	1	1	1	1	4	4	1	1	1	1	7
Z MAXIMUM	-1.683E+01	1.557E+01	9.008E+01	-4.225E+03	-1.607E+03	9.740E+02	-1.683E+01	1.557E+01	9.008E+01	-4.225E+03	3.711E+03	1.584E+02
GRAND TOTAL	3.761E+01	1.923E+01	9.375E+01	4.343E+03	2.144E+03	1.038E+03	3.761E+01	1.923E+01	9.375E+01	4.343E+03	3.974E+03	8.064E+02

-360- ELEMENT TYPE (3/D) P I P E / / / ELEMENT NUMBER (15)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	6	13	1	1	1	1	6	13	1	1	1
X MAXIMUM	7.661E+00	3.012E+00	5.668E+00	-2.030E+02	3.511E+02	2.003E+02	7.661E+00	3.012E+00	5.668E+00	-2.030E+02	4.427E+02	1.430E+02
Y	11	6	1	1	1	6	11	6	1	1	1	6
Y MAXIMUM	8.535E+00	1.767E+01	-4.892E+00	2.249E+02	-3.891E+02	9.204E+02	8.535E+00	1.767E+01	-4.892E+00	2.249E+02	-5.460E+02	3.617E+02
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	5.018E+01	1.292E+01	2.892E+01	-1.329E+03	2.300E+03	1.351E+03	5.018E+01	1.292E+01	2.892E+01	-1.329E+03	3.227E+03	9.368E+02
GRAND TOTAL	5.376E+01	2.267E+01	3.160E+01	1.378E+03	2.377E+03	1.687E+03	5.376E+01	2.267E+01	3.160E+01	1.378E+03	3.316E+03	1.038E+03

ELEMENT TYPE (3/D) P I P E / / / ELEMENT NUMBER (16)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	1	13	6	1	1	1	1	13	6	1	1	1
X MAXIMUM	7.661E+00	5.668E+00	-3.012E+00	-2.030E+02	1.430E+02	-4.927E+02	8.767E+00	4.838E+00	-3.012E+00	-1.333E+02	2.065E+02	-4.977E+02
Y	11	1	6	1	6	1	11	6	6	1	6	1
Y MAXIMUM	8.535E+00	-4.892E+00	-1.767E+01	2.249E+02	3.617E+02	5.460E+02	9.720E+00	3.400E+00	-1.767E+01	2.423E+02	2.374E+02	5.516E+02
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	5.018E+01	2.892E+01	-1.292E+01	-1.329E+03	9.368E+02	-3.227E+03	5.743E+01	7.482E+00	-1.292E+01	-8.734E+02	1.352E+03	-3.260E+03
GRAND TOTAL	5.376E+01	3.160E+01	2.267E+01	1.378E+03	1.687E+03	3.316E+03	6.131E+01	1.143E+01	2.267E+01	9.453E+02	1.417E+03	3.350E+03

ELEMENT TYPE (3/D) P I P E / / / ELEMENT NUMBER (16)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	6	6	6	1	1
X MAXIMUM	8.536E+00	-3.756E+00	-3.112E+00	6.050E+01	2.344E+02	-4.966E+02
Y	1	6	6	6	1	1
Y MAXIMUM	-9.460E+00	3.021E+00	-1.767E+01	3.549E+02	-2.642E+02	5.504E+02
Z	1	1	1	1	1	1
Z MAXIMUM	5.591E+01	-1.509E+01	-1.292E+01	-2.930E+02	1.542E+03	-3.253E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (17)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	6	4	6	1	1	1	6	4	6	1	1
X MAXIMUM	8.538E+00	3.012E+00	-3.755E+00	6.049E+01	4.906E+02	2.384E+02	8.538E+00	3.012E+00	-3.755E+00	6.049E+01	4.901E+02	1.975E+02
Y	1	6	6	6	1	1	1	6	6	6	1	6
Y MAXIMUM	-9.463E+00	1.767E+01	3.023E+00	3.548E+02	-5.504E+02	-2.642E+02	-9.463E+00	1.767E+01	3.023E+00	3.548E+02	-4.978E+02	-2.886E+02
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	5.593E+01	1.292E+01	-1.504E+01	-2.946E+02	3.253E+03	1.501E+03	5.593E+01	1.292E+01	-1.504E+01	-2.946E+02	2.942E+03	1.294E+03
GRAND TOTAL	5.969E+01	2.267E+01	1.805E+01	4.748E+02	3.344E+03	1.611E+03	5.969E+01	2.267E+01	1.805E+01	4.748E+02	3.032E+03	1.371E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (18)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	6	1	1	1	1	1	6	1	1
X MAXIMUM	1.020E+01	2.588E+00	-3.203E+00	6.049E+01	4.901E+02	1.975E+02	1.020E+01	2.588E+00	-3.203E+00	6.049E+01	3.338E+02	1.043E+02
Y	1	6	1	6	1	6	1	6	1	6	1	6
Y MAXIMUM	-1.130E+01	6.623E+00	3.549E+00	3.548E+02	-4.978E+02	-2.886E+02	-1.130E+01	6.623E+00	3.549E+00	3.548E+02	-3.700E+02	-5.270E+02
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	6.679E+01	1.695E+01	-2.098E+01	-2.946E+02	2.942E+03	1.294E+03	6.679E+01	1.695E+01	-2.098E+01	-2.946E+02	2.187E+03	6.835E+02
GRAND TOTAL	6.928E+01	1.949E+01	2.251E+01	4.748E+02	3.032E+03	1.371E+03	6.928E+01	1.949E+01	2.251E+01	4.748E+02	2.281E+03	8.857E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (19)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	13	6	1	1	1	1	13	6	4	4
X MAXIMUM	1.328E+01	3.567E+00	-7.840E+00	6.049E+01	3.338E+02	1.043E+02	1.328E+01	3.567E+00	-7.840E+00	6.049E+01	-2.869E+02	-5.026E+01
Y	1	6	1	6	1	6	1	6	1	6	1	6
Y MAXIMUM	-1.472E+01	-2.064E+01	4.693E+00	3.548E+02	-3.700E+02	-5.270E+02	-1.472E+01	-2.064E+01	4.693E+00	3.548E+02	-2.785E+02	-1.245E+02
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	8.701E+01	2.336E+01	-2.774E+01	-2.946E+02	2.187E+03	6.835E+02	8.701E+01	2.336E+01	-2.774E+01	-2.946E+02	1.646E+03	2.279E+02
GRAND TOTAL	9.030E+01	3.228E+01	3.068E+01	4.748E+02	2.281E+03	8.857E+02	9.030E+01	3.228E+01	3.068E+01	4.748E+02	1.742E+03	2.852E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (20)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	1	13	1	6	4	4	4	1	1	4	6	4
X MAXIMUM	1.328E+01	-7.840E+00	-3.567E+00	6.049E+01	-5.026E+01	2.869E+02	-7.577E+00	-1.239E+01	-3.567E+00	-6.657E+01	-4.659E+01	2.732E+02
Y	1	1	6	6	1	1	1	1	6	6	1	1
Y MAXIMUM	-1.472E+01	4.693E+00	2.064E+01	3.548E+02	-1.245E+02	2.785E+02	-7.071E+00	1.373E+01	2.064E+01	1.400E+02	-2.733E+02	2.441E+02
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	8.701E+01	-2.774E+01	-2.336E+01	-2.946E+02	2.279E+02	-1.646E+03	4.191E+01	-8.114E+01	-2.336E+01	-7.197E+01	2.952E+02	-1.443E+03
GRAND TOTAL	9.030E+01	3.068E+01	3.228E+01	4.748E+02	2.852E+02	1.742E+03	4.509E+01	8.403E+01	3.228E+01	2.283E+02	4.217E+02	1.940E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (20)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	13	1	1	4	6	4
X MAXIMUM	-7.840E+00	-1.328E+01	-3.567E+00	-6.111E+01	-4.406E+01	2.346E+02
Y	1	1	6	11	6	1
Y MAXIMUM	4.693E+00	1.472E+01	2.064E+01	7.658E+01	-2.619E+02	1.911E+02
Z	1	1	1	1	1	1
Z MAXIMUM	-2.774E+01	8.701E+01	-2.336E+01	1.226E+02	1.845E+02	-1.150E+03
GRAND TOTAL	3.068E+01	9.030E+01	3.228E+01	1.778E+02	3.352E+02	1.223E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (21)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
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	13	1	1	4	4	6	13	1	1	4	13	13
X MAXIMUM	-7.840E+00	3.567E+00	-1.328E+01	-6.111E+01	-2.346E+02	-4.466E+01	-7.840E+00	3.567E+00	-1.328E+01	-6.111E+01	-9.724E+01	-3.787E+01
Y MAXIMUM	4.693E+00	-2.064E+01	1.472E+01	7.658E+01	-1.911E+02	-2.619E+02	4.693E+00	-2.064E+01	1.472E+01	7.658E+01	-9.714E+01	-7.487E+01
Z MAXIMUM	-2.774E+01	2.336E+01	-8.701E+01	1.228E+02	1.130E+03	1.895E+02	-2.774E+01	2.336E+01	-8.701E+01	1.228E+02	9.240E+01	-1.385E+02
GRAND TOTAL	3.008E+01	3.228E+01	9.030E+01	1.778E+02	1.223E+03	3.362E+02	3.068E+01	3.228E+01	9.030E+01	1.778E+02	2.567E+02	1.825E+02

ELEMENT TYPE (3/D) P I P E) / / / ELEMENT NUMBER (22)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X MAXIMUM	-1.143E+01	6.642E+00	1.585E+01	-6.111E+01	-9.724E+01	-3.787E+01	-1.143E+01	6.642E+00	1.585E+01	-6.111E+01	-3.987E+02	1.709E+02
Y MAXIMUM	-7.425E+00	-3.896E+01	1.704E+01	7.658E+01	-9.714E+01	-7.487E+01	-7.425E+00	-3.896E+01	1.704E+01	7.658E+01	4.419E+02	1.003E+03
Z MAXIMUM	-2.734E+01	2.605E+01	-1.007E+02	1.228E+02	9.240E+01	-1.385E+02	-2.734E+01	2.605E+01	-1.007E+02	1.228E+02	-2.612E+03	-7.404E+02
GRAND TOTAL	3.387E+01	4.678E+01	1.061E+02	1.778E+02	2.567E+02	1.825E+02	3.387E+01	4.678E+01	1.061E+02	1.778E+02	2.711E+03	1.319E+03

ELEMENT TYPE (3/D) P I P E) / / / ELEMENT NUMBER (23)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X MAXIMUM	-1.143E+01	6.642E+00	1.585E+01	-6.111E+01	3.987E+02	-1.709E+02	-9.129E+00	7.035E+00	-1.585E+01	-3.155E+02	3.176E+02	-1.937E+02
Y MAXIMUM	-7.425E+00	3.896E+01	-1.704E+01	7.658E+01	-4.419E+02	-1.003E+03	2.230E+01	3.280E+01	-1.704E+01	-3.496E+02	-3.520E+02	-1.136E+03
Z MAXIMUM	-2.734E+01	-2.605E+01	1.007E+02	1.228E+02	2.612E+03	7.404E+02	-3.776E+01	-3.376E+00	1.007E+02	2.086E+03	2.080E+03	8.372E+02
GRAND TOTAL	3.387E+01	4.678E+01	1.061E+02	1.778E+02	2.711E+03	1.319E+03	4.744E+01	3.573E+01	1.061E+02	2.154E+03	2.159E+03	1.457E+03

ELEMENT TYPE (3/D) P I P E) / / / ELEMENT NUMBER (23)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X MAXIMUM	6.642E+00	1.143E+01	-1.585E+01	4.679E+02	5.044E+01	-2.065E+02
Y MAXIMUM	3.896E+01	7.425E+00	-1.704E+01	-5.186E+02	-1.011E+02	-1.211E+03
Z MAXIMUM	-2.605E+01	2.734E+01	1.007E+02	3.065E+03	3.304E+02	7.846E+02
GRAND TOTAL	4.878E+01	3.387E+01	1.061E+02	3.187E+03	3.543E+02	1.488E+03

ELEMENT TYPE (3/D) P I P E) / / / ELEMENT NUMBER (24)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X MAXIMUM	6.642E+00	1.585E+01	1.143E+01	4.679E+02	2.065E+02	5.044E+01	6.642E+00	1.585E+01	1.143E+01	4.679E+02	2.262E+02	2.894E+02
Y MAXIMUM	3.896E+01	1.704E+01	7.425E+00	-5.186E+02	1.211E+03	-1.011E+02	3.896E+01	1.704E+01	7.425E+00	-5.186E+02	1.327E+03	-3.207E+02
Z MAXIMUM	-2.605E+01	-1.007E+02	2.734E+01	3.065E+03	-7.846E+02	3.304E+02	-2.605E+01	-1.007E+02	2.734E+01	3.065E+03	-3.597E+02	1.895E+03
GRAND TOTAL	4.878E+01	1.061E+02	3.387E+01	3.187E+03	1.488E+03	3.543E+02	4.878E+01	1.061E+02	3.387E+01	3.187E+03	1.433E+03	1.993E+03

ELEMENT TYPE (3/D) P I P E) / / / ELEMENT NUMBER (25)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X MAXIMUM	6.642E+00	1.585E+01	1.143E+01	4.679E+02	2.262E+02	2.894E+02	6.642E+00	1.585E+01	1.179E+01	4.679E+02	3.356	5.351E+02
Y MAXIMUM	3.896E+01	-1.707E+01	7.706E+00	-5.186E+02	1.327E+03	-3.207E+02	3.896E+01	-1.707E+01	7.706E+00	-5.186E+02	1.450E+03	-5.931E+02

Z MAXIMUM -2.605E+01-1.069E+02 2.734E+01 3.065E+03-3.597E+02 1.845E+03-2.605E+01-1.069E+02 2.734E+01 3.065E+03-1.811E+02 3.505E+03
 GRAND TOTAL 4.878E+01 1.063E+02 3.430E+01 3.187E+03 1.453E+03 1.943E+03 4.878E+01 1.063E+02 3.430E+01 3.187E+03 1.574E+03 3.689E+03

ELE TYPE (3/D P I P E) / / / ELEMENT NUMBER (26)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	4	6	4	1	4	6	4	6	4	1	4	6
X MAXIMUM	2.359E+01	-3.675E+00	-1.490E+01	-3.556E+02	7.343E+02	-1.407E+02	2.359E+01	-3.675E+00	-1.490E+01	-3.556E+02	7.345E+02	-2.326E+01
Y	7	6	1	1	7	6	7	6	1	1	7	6
Y MAXIMUM	1.118E+01	-2.155E+01	-1.198E+01	3.940E+02	-4.473E+02	-1.118E+03	1.118E+01	-2.155E+01	-1.198E+01	3.940E+02	-4.473E+02	-8.367E+01
Z	1	1	1	1	1	7	1	1	1	1	1	1
Z MAXIMUM	-2.250E+01	3.940E+00	7.083E+01	-2.329E+03	1.411E+03	1.591E+02	-2.250E+01	3.940E+00	7.083E+01	-2.329E+03	4.811E+03	-1.524E+02
GRAND TOTAL	4.310E+01	2.587E+01	7.041E+01	2.413E+03	1.919E+03	1.323E+03	4.310E+01	2.587E+01	7.041E+01	2.413E+03	4.943E+03	1.888E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (27)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	4	6	4	1	1	1	4	6	4	1	4	6
X MAXIMUM	2.360E+01	-4.135E+00	-2.295E+01	-3.556E+02	7.345E+02	-2.326E+01	2.360E+01	-4.135E+00	-2.295E+01	-3.556E+02	-1.322E+03	1.843E+02
Y	7	6	1	1	7	6	7	6	1	1	7	6
Y MAXIMUM	1.119E+01	-2.426E+01	-1.322E+01	3.940E+02	-4.473E+02	-8.367E+01	1.119E+01	-2.426E+01	-1.322E+01	3.940E+02	-1.449E+03	1.081E+03
Z	1	7	1	1	1	1	1	7	1	1	1	1
Z MAXIMUM	-2.250E+01	4.019E+00	7.813E+01	-2.329E+03	4.811E+03	-1.524E+02	-2.250E+01	4.019E+00	7.813E+01	-2.329E+03	8.561E+03	-3.578E+02
GRAND TOTAL	4.312E+01	3.246E+01	8.771E+01	2.413E+03	4.943E+03	1.888E+02	4.312E+01	3.246E+01	8.771E+01	2.413E+03	8.942E+03	1.495E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (28)

106-1

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	17	17	5	17	5	17	17	17	5	17	5
X MAXIMUM	-9.648E+00	4.469E+00	-1.014E+01	-1.274E+02	2.513E+02	1.989E+02	-9.648E+00	4.469E+00	-1.014E+01	-1.274E+02	1.746E+02	6.034E+01
Y	5	5	5	2	5	5	5	5	5	2	5	5
Y MAXIMUM	-6.337E+00	2.041E+01	3.927E+00	-7.881E+02	-2.851E+02	1.230E+03	-6.337E+00	2.041E+01	3.927E+00	-7.881E+02	-1.202E+02	3.732E+02
Z	2	3	2	2	2	2	2	3	2	2	2	2
Z MAXIMUM	-3.880E+01	-1.282E+01	-2.534E+01	9.834E+01	1.839E+03	7.879E+02	-3.880E+01	-1.282E+01	-2.534E+01	9.834E+01	7.752E+02	2.539E+02
GRAND TOTAL	4.972E+01	3.809E+01	3.950E+01	8.152E+02	2.453E+03	2.244E+03	4.972E+01	3.809E+01	3.950E+01	8.152E+02	9.842E+02	6.787E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (29)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	5	12	5	12	5	17	5	12	5	17	5
X MAXIMUM	-1.119E+01	3.777E+00	8.529E+00	1.809E+01	-2.254E+02	1.993E+02	-1.119E+01	3.777E+00	8.529E+00	1.809E+01	-9.550E+01	7.814E+01
Y	14	5	12	5	5	5	14	5	12	5	5	5
Y MAXIMUM	3.978E+00	2.337E+01	-3.974E+00	1.119E+02	-2.093E+02	1.233E+03	3.978E+00	2.337E+01	-3.974E+00	1.119E+02	-8.530E+01	4.834E+02
Z	8	3	2	2	2	3	8	3	2	2	2	3
Z MAXIMUM	-8.643E+00	-3.822E+00	1.195E+01	-1.163E+01	-7.740E+02	-1.778E+02	-8.643E+00	-3.822E+00	1.195E+01	-1.163E+01	-3.906E+02	-5.517E+01
GRAND TOTAL	1.776E+01	2.457E+01	1.905E+01	1.152E+02	4.710E+02	1.276E+03	1.776E+01	2.457E+01	1.905E+01	1.152E+02	5.172E+02	5.011E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (30)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	17	12	5	5	5	17	17	12	5	5	5	17
X MAXIMUM	-1.119E+01	8.529E+00	-1.777E+00	1.809E+01	7.814E+01	9.550E+01	-1.163E+01	5.861E+00	-3.777E+00	4.536E+01	5.873E+01	9.746E+01
Y	14	12	5	5	5	5	14	5	5	5	5	5
Y MAXIMUM	3.978E+00	-3.974E+00	2.337E+01	1.119E+02	4.834E+02	8.530E+01	4.948E+00	4.163E+00	-2.337E+01	2.806E+02	3.633E+02	7.810E+01
Z	8	2	3	2	3	2	8	2	3	3	3	2
Z MAXIMUM	-8.643E+00	1.195E+01	3.822E+00	-1.163E+01	-5.517E+01	3.906E+02	-9.498E+00	1.195E+01	3.822E+00	-2.128E+01	-4.377E+01	3.692E+02
GRAND TOTAL	1.776E+01	1.905E+01	2.457E+01	1.152E+02	5.011E+02	5.172E+02	2.022E+01	1.641E+01	2.457E+01	2.806E+02	3.806E+02	4.989E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (31)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	17	5	5	5	17
X MAXIMUM	-1.029E+01	5.543E+00	-3.777E+00	6.310E+01	3.035E+01	9.144E+01
Y	14	5	5	5	5	5
Y MAXIMUM	5.158E+00	3.825E+00	-2.337E+01	3.903E+02	1.878E+02	7.094E+01
Z	8	2	3	3	3	2
Z MAXIMUM	-8.900E+00	1.013E+01	3.822E+00	-3.511E+01	-2.568E+01	3.494E+02
GRAND TOTAL	2.143E+01	1.453E+01	2.457E+01	4.027E+02	2.000E+02	4.772E+02

ELEMENT TYPE (3/D) P I P E) / / / ELEMENT NUMBER (31)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	5	17	5	17	5	17	5	17	5	12	5
X MAXIMUM	-1.030E+01	3.777E+00	5.532E+00	6.307E+01	-4.104E+01	3.042E+01	-1.030E+01	3.777E+00	5.532E+00	6.307E+01	1.162E+02	-4.777E+01
Y	14	5	5	5	5	5	14	5	5	5	12	5
Y MAXIMUM	5.159E+00	2.337E+01	3.827E+00	3.901E+02	-7.094E+01	1.882E+02	5.159E+00	2.337E+01	3.827E+00	3.901E+02	-5.412E+01	-2.955E+02
Z	8	3	2	3	2	3	8	3	2	3	2	3
Z MAXIMUM	-8.903E+00	-3.822E+00	1.014E+01	-3.509E+01	-3.494E+02	-2.572E+01	-8.903E+00	-3.822E+00	1.014E+01	-3.509E+01	-1.395E+02	5.340E+01
GRAND TOTAL	2.143E+01	2.457E+01	1.454E+01	4.025E+02	4.772E+02	2.004E+02	2.143E+01	2.457E+01	1.454E+01	4.025E+02	2.592E+02	3.385E+02

ELEMENT TYPE (3/D) P I P E) / / / ELEMENT NUMBER (32)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	5	17	5	12	5	17	5	17	5	17	5
X MAXIMUM	-7.951E+00	1.886E+00	3.235E+00	6.307E+01	1.162E+02	-4.777E+01	-7.951E+00	1.886E+00	3.235E+00	6.307E+01	1.395E+02	-1.157E+02
Y	14	5	5	5	12	5	14	5	5	5	5	5
Y MAXIMUM	3.885E+00	1.167E+01	2.560E+00	3.901E+02	-5.412E+01	-2.955E+02	3.885E+00	1.167E+01	2.560E+00	3.901E+02	1.004E+02	-7.156E+02
Z	2	3	2	3	2	3	2	3	2	3	2	3
Z MAXIMUM	9.434E+00	-1.589E+00	1.079E+01	-3.509E+01	-1.395E+02	5.340E+01	9.434E+00	-1.589E+00	1.079E+01	-3.509E+01	2.490E+02	1.106E+02
GRAND TOTAL	1.781E+01	1.264E+01	1.448E+01	4.025E+02	2.592E+02	3.385E+02	1.781E+01	1.264E+01	1.448E+01	4.025E+02	3.579E+02	7.475E+02

ELEMENT TYPE (3/D) P I P E) / / / ELEMENT NUMBER (33)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	5	12	5	17	5	17	5	12	5	12	12
X MAXIMUM	-2.421E+00	-4.314E+00	-8.399E+00	6.307E+01	1.395E+02	-1.157E+02	-2.421E+00	-4.314E+00	-8.399E+00	6.307E+01	-9.691E+01	-3.210E+01
Y	2	5	12	5	5	5	2	5	12	5	2	5
Y MAXIMUM	-2.429E+00	-2.669E+01	3.913E+00	3.901E+02	1.004E+02	-7.156E+02	-2.429E+00	-2.669E+01	3.913E+00	3.901E+02	-7.096E+01	-1.952E+02
Z	2	3	2	3	2	3	2	3	2	3	2	2
Z MAXIMUM	1.567E+01	4.344E+00	1.071E+01	-3.509E+01	2.490E+02	1.106E+02	1.567E+01	4.344E+00	1.071E+01	-3.509E+01	4.578E+02	8.376E+01
GRAND TOTAL	1.970E+01	2.881E+01	2.063E+01	4.025E+02	3.579E+02	7.475E+02	1.970E+01	2.881E+01	2.063E+01	4.025E+02	5.930E+02	2.395E+02

ELEMENT TYPE (3/D) P I P E) / / / ELEMENT NUMBER (34)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	17	12	5	5	12	12	17	12	5	5	5	12
X MAXIMUM	-2.421E+00	-8.399E+00	4.314E+00	6.307E+01	-3.210E+01	9.601E+01	-7.250E+00	-5.420E+00	4.314E+00	2.797E+01	-5.319E+01	1.218E+02
Y	2	12	5	5	5	2	12	12	5	5	5	2
Y MAXIMUM	-2.429E+00	3.913E+00	2.669E+01	3.901E+02	-1.952E+02	7.096E+01	3.009E+00	2.525E+00	2.669E+01	1.730E+02	-3.290E+02	7.303E+01
Z	2	2	3	2	2	2	2	2	3	2	2	2
Z MAXIMUM	1.567E+01	1.071E+01	-4.344E+00	-3.509E+01	8.376E+01	-4.578E+02	1.865E+01	-3.513E+00	-4.344E+00	5.551E+01	7.645E+01	-4.712E+02
GRAND TOTAL	1.970E+01	2.063E+01	2.881E+01	4.025E+02	2.395E+02	5.930E+02	2.881E+01	4.677E+00	2.881E+01	1.941E+02	3.625E+02	6.225E+02

ELEMENT TYPE (3/D) P I P E) / / / ELEMENT NUMBER (34)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	12	17	5	12	5	12
X MAXIMUM	-8.399E+00	2.421E+00	4.314E+00	-0.146E+01	-4.306E+01	1.395E+02
Y	12	2	5	5	5	2

Z MAXIMUM 1.071E+01-1.567E+01-4.344E+00 9.726E+01 2.435E+01-4.354E+02
 GRAND TOTAL 2.063E+01 1.970E+01 2.881E+01 1.551E+02 2.840E+02 5.860E+02

ELE TYPE (3/0 P I P E) / / / ELEMENT NUMBER (35)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	12	5	17	12	12	5	12	5	17	12	12	5
X MAXIMUM	-8.399E+00	-4.314E+00	2.421E+00	-4.146E+01	-1.305E+02	-4.366E+01	-8.399E+00	-4.314E+00	2.421E+00	-4.146E+01	-1.202E+02	-4.422E+01
Y	12	5	2	5	2	5	12	5	2	5	12	5
Y MAXIMUM	3.913E+00	-2.669E+01	2.429E+00	-7.515E+01	-6.749E+01	-2.701E+02	3.913E+00	-2.669E+01	2.429E+00	-7.515E+01	-5.549E+01	1.046E+02
Z	2	3	2	2	2	2	2	3	2	2	2	2
Z MAXIMUM	1.071E+01	4.344E+00	-1.567E+01	9.726E+01	4.354E+02	2.435E+01	1.071E+01	4.344E+00	-1.567E+01	9.726E+01	2.154E+02	6.648E+01
GRAND TOTAL	2.063E+01	2.881E+01	1.970E+01	1.551E+02	2.840E+02	5.860E+02	2.063E+01	2.881E+01	1.970E+01	1.551E+02	3.360E+02	2.026E+02

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (36)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	5	12	12	12	12	17	5	12	12	12	5
X MAXIMUM	-1.391E+01	-7.680E+00	6.248E+00	-4.146E+01	-1.202E+02	-4.422E+01	-1.391E+01	-7.680E+00	6.248E+00	-4.146E+01	-3.614E+01	2.091E+02
Y	5	5	2	5	12	5	5	5	2	5	5	5
Y MAXIMUM	-9.135E+00	-4.751E+01	3.005E+00	-7.515E+01	5.549E+01	1.046E+02	-9.135E+00	-4.751E+01	3.005E+00	-7.515E+01	5.653E+01	1.293E+03
Z	2	3	2	2	2	2	2	3	2	2	2	3
Z MAXIMUM	1.077E+01	7.284E+00	-1.938E+01	9.726E+01	2.154E+02	6.648E+01	1.077E+01	7.284E+00	-1.938E+01	9.726E+01	-2.696E+02	-2.277E+02
GRAND TOTAL	2.853E+01	5.036E+01	2.702E+01	1.551E+02	3.360E+02	2.026E+02	2.853E+01	5.036E+01	2.702E+01	1.551E+02	3.632E+02	1.397E+03

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (37)

-365-

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	17	5	12	12	12	5	17	17	12	12	12	5
X MAXIMUM	-1.391E+01	-7.680E+00	6.248E+00	-4.146E+01	-3.614E+01	-2.091E+02	-1.164E+01	8.037E+00	-6.248E+00	-6.311E+01	-1.612E+01	2.355E+02
Y	5	5	2	5	5	5	5	5	2	5	3	5
Y MAXIMUM	-9.135E+00	-4.751E+01	3.005E+00	-7.515E+01	-5.653E+01	-1.293E+03	2.714E+01	4.005E+01	-3.005E+00	-9.589E+01	3.190E+01	-1.457E+03
Z	2	3	2	2	2	3	2	3	2	2	2	3
Z MAXIMUM	1.077E+01	-7.284E+00	1.938E+01	9.726E+01	2.696E+02	2.277E+02	1.042E+01	-7.328E+00	1.938E+01	2.650E+02	1.636E+02	2.549E+02
GRAND TOTAL	2.853E+01	5.036E+01	2.702E+01	1.551E+02	3.632E+02	1.397E+03	3.614E+01	4.546E+01	2.702E+01	3.674E+02	2.574E+02	1.562E+03

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (37)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	5	17	12	12	14	5
X MAXIMUM	7.680E+00	1.391E+01	-6.248E+00	-6.426E+01	1.693E+01	-2.503E+02
Y	5	5	2	5	5	5
Y MAXIMUM	4.751E+01	9.135E+00	-3.005E+00	-6.319E+01	7.048E+01	-1.548E+03
Z	3	2	2	2	2	3
Z MAXIMUM	-7.284E+00	-1.077E+01	1.938E+01	3.568E+02	-1.003E+01	2.743E+02
GRAND TOTAL	5.036E+01	2.853E+01	2.702E+01	4.620E+02	9.669E+01	1.645E+03

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (38)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	5	12	17	12	5	14	5	12	17	12	5	12
X MAXIMUM	7.680E+00	6.248E+00	1.391E+01	-6.426E+01	2.503E+02	1.693E+01	7.680E+00	6.248E+00	1.391E+01	-6.426E+01	2.732E+02	-8.375E+01
Y	5	2	5	5	5	5	5	2	5	5	5	14
Y MAXIMUM	4.751E+01	3.005E+00	9.135E+00	-6.319E+01	1.548E+03	7.048E+01	4.751E+01	3.005E+00	9.135E+00	-6.319E+01	1.690E+03	-6.082E+01
Z	3	2	2	2	3	2	3	2	2	2	3	2
Z MAXIMUM	-7.284E+00	-1.938E+01	-1.077E+01	3.568E+02	-2.743E+02	-1.003E+01	-7.284E+00	-1.938E+01	-1.077E+01	3.568E+02	-3.222E+02	2.912E+02
GRAND TOTAL	5.036E+01	2.702E+01	2.853E+01	4.620E+02	1.645E+03	9.669E+01	5.036E+01	2.702E+01	2.853E+01	4.620E+02	1.796E+03	4.280E+02

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (39)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	5	12	17	12	5	12	5	12	17	12	17	12
X MAXIMUM	7.680E+00	6.416E+00	1.454E+01	-6.426E+01	2.732E+02	-8.375E+01	7.680E+00	6.416E+00	1.454E+01	-6.426E+01	4.022E+02	1.861E+02
Y	5	2	5	5	5	14	5	2	5	5	5	2
Y MAXIMUM	4.751E+01	3.014E+00	4.452E+00	-6.319E+01	1.640E+03	-6.082E+01	4.751E+01	3.014E+00	4.452E+00	-6.319E+01	1.641E+03	9.325E+01
Z	3	2	2	2	3	2	3	2	2	2	3	2
Z MAXIMUM	-7.284E+00	-1.445E+01	-1.079E+01	3.568E+02	-3.222E+02	2.412E+02	-7.284E+00	-1.445E+01	-1.079E+01	3.568E+02	-3.721E+02	6.016E+02
GRAND TOTAL	5.036E+01	2.721E+01	2.932E+01	4.620E+02	1.796E+03	4.280E+02	5.036E+01	2.721E+01	2.932E+01	4.620E+02	2.097E+03	8.578E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (40)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	3	12	3	12	5	17	3	12	3	12	5
X MAXIMUM	-4.081E+00	-1.791E+00	-6.221E+00	-1.498E+01	2.658E+02	-9.338E+01	-4.081E+00	-1.791E+00	-6.221E+00	-1.498E+01	2.604E+02	-8.933E+01
Y	2	5	2	3	2	5	2	5	2	3	2	5
Y MAXIMUM	4.441E+00	-6.140E+00	4.431E+00	-6.074E+01	-2.401E+02	-5.777E+02	4.441E+00	-6.140E+00	4.431E+00	-6.074E+01	-2.220E+02	-5.526E+02
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	-2.865E+01	1.090E+01	-2.859E+01	1.127E+02	1.549E+03	2.560E+02	-2.865E+01	1.090E+01	-2.859E+01	1.127E+02	1.433E+03	2.115E+02
GRAND TOTAL	3.678E+01	2.209E+01	3.661E+01	2.200E+02	1.496E+03	7.219E+02	3.678E+01	2.209E+01	3.661E+01	2.200E+02	1.758E+03	6.544E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (41)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	3	12	3	12	5	17	3	12	3	12	5
X MAXIMUM	-4.081E+00	-1.791E+00	-6.221E+00	-1.498E+01	2.694E+02	-8.933E+01	-4.081E+00	-1.791E+00	-6.221E+00	-1.498E+01	2.358E+02	-8.540E+01
Y	2	5	2	3	2	5	2	5	2	3	2	5
Y MAXIMUM	4.441E+00	-6.140E+00	4.431E+00	-6.074E+01	-2.220E+02	-5.526E+02	4.441E+00	-6.140E+00	4.431E+00	-6.074E+01	-2.045E+02	-5.283E+02
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	-2.865E+01	1.090E+01	-2.859E+01	1.127E+02	1.433E+03	2.115E+02	-2.865E+01	1.090E+01	-2.859E+01	1.127E+02	1.319E+03	1.684E+02
GRAND TOTAL	3.678E+01	2.209E+01	3.661E+01	2.200E+02	1.758E+03	6.544E+02	3.678E+01	2.209E+01	3.661E+01	2.200E+02	1.615E+03	5.947E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (42)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	3	12	3	12	5	17	3	12	3	12	17
X MAXIMUM	-4.081E+00	-1.791E+00	-6.221E+00	-1.498E+01	2.358E+02	-8.540E+01	-4.081E+00	-1.791E+00	-6.221E+00	-1.498E+01	-8.747E+01	-8.825E+01
Y	2	5	2	3	2	5	2	5	2	3	14	3
Y MAXIMUM	4.441E+00	-6.140E+00	4.431E+00	-6.074E+01	-2.045E+02	-5.283E+02	4.441E+00	-6.140E+00	4.431E+00	-6.074E+01	-4.858E+01	2.439E+02
Z	2	2	2	2	2	2	2	2	2	2	8	2
Z MAXIMUM	-2.865E+01	1.090E+01	-2.859E+01	1.127E+02	1.319E+03	1.684E+02	-2.865E+01	1.090E+01	-2.859E+01	1.127E+02	-2.522E+02	-3.981E+02
GRAND TOTAL	3.678E+01	2.209E+01	3.661E+01	2.200E+02	1.615E+03	5.947E+02	3.678E+01	2.209E+01	3.661E+01	2.200E+02	3.850E+02	8.880E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (43)

	PX(I)	VY(I)	VZ(J)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	17	12	3	12	17	17	17	12	3	12	3
X MAXIMUM	-4.037E+00	-3.644E+00	-1.129E+00	-1.498E+01	-8.747E+01	-8.825E+01	-4.037E+00	-3.644E+00	-1.129E+00	-1.498E+01	-1.552E+02	1.417E+02
Y	2	5	2	3	14	3	2	5	2	3	2	3
Y MAXIMUM	4.438E+00	-9.213E+00	2.192E+00	-6.074E+01	-4.858E+01	2.439E+02	4.438E+00	-9.213E+00	2.192E+00	-6.074E+01	1.573E+02	4.308E+02
Z	2	2	2	2	8	2	2	2	2	2	2	2
Z MAXIMUM	-2.864E+01	7.405E+00	-1.414E+01	1.127E+02	-2.522E+02	-3.981E+02	-2.864E+01	7.405E+00	-1.414E+01	1.127E+02	-1.015E+03	-8.477E+02
GRAND TOTAL	3.675E+01	1.759E+01	1.754E+01	2.200E+02	3.850E+02	8.880E+02	3.675E+01	1.759E+01	1.754E+01	2.200E+02	1.287E+03	1.663E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (44)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	17	12	3	12	3	17	17	12	3	12	3
X MAXIMUM	-3.974E+00	-3.743E+00	-4.876E+00	-1.498E+01	-1.452E+02	1.417E+02	-3.974E+00	-3.743E+00	-4.876E+00	-1.498E+01	-9.405E+01	3.459E+01

Y MAXIMUM 4.435E+00 8.683E+00 2.716E+00 8.074E+01 1.573E+02 4.355E+02 4.435E+00 8.683E+00 2.716E+00 8.074E+01 4.310E+01 1.550E+02
 Z 4UM -2.861E+01-1.888E+01 1.105E+01 1.127E+02-1.015E+03-8.477E+02-2.861E+01-1.888E+01 1.105E+01 1.127E+02-6.007 1.437E+02
 GF TOTAL 3.671E+01 3.550E+01 1.696E+01 2.200E+02 1.247E+03 1.663E+03 3.671E+01 3.550E+01 1.696E+01 2.200E+02 7.421 3.647E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (45)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	17	12	17	3	3	17	17	12	17	5	3	17
X MAXIMUM	-3.974E+00	4.876E+00	-3.743E+00	-1.948E+01	3.459E+01	9.405E+01	-5.954E+00	5.574E+00	-3.743E+00	1.716E+01	2.450E+01	1.030E+02
Y	2	14	3	3	5	2	14	2	3	5	5	2
Y MAXIMUM	4.435E+00	2.716E+00	-8.683E+00	-6.074E+01	1.550E+02	-9.310E+01	2.944E+00	-4.346E+00	-8.683E+00	1.062E+02	9.047E+01	-8.181E+01
Z	2	2	2	2	3	2	2	2	2	3	3	2
Z MAXIMUM	-2.861E+01	1.105E+01	1.888E+01	1.127E+02	1.437E+02	6.007E+02	-1.242E+01	2.804E+01	1.888E+01	2.727E+01	1.226E+02	5.278E+02
GRAND TOTAL	3.671E+01	1.696E+01	3.550E+01	2.200E+02	3.647E+02	7.923E+02	1.886E+01	3.542E+01	3.550E+01	1.226E+02	2.495E+02	7.135E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (45)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	12	17	17	17	17	17
X MAXIMUM	4.876E+00	3.974E+00	-3.743E+00	-2.684E+01	-1.336E+01	9.618E+01
Y	14	2	4	5	10	5
Y MAXIMUM	2.716E+00	-4.435E+00	-8.683E+00	1.324E+02	3.532E+01	6.624E+01
Z	2	2	2	3	3	2
Z MAXIMUM	1.105E+01	2.861E+01	1.888E+01	9.031E+01	2.462E+01	4.222E+02
GRAND TOTAL	1.696E+01	3.671E+01	3.550E+01	2.354E+02	8.521E+01	5.907E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (46)

-367-

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	12	17	17	17	17	17	12	17	17	17	12	17
X MAXIMUM	4.876E+00	3.743E+00	3.974E+00	-2.684E+01	-4.018E+01	-1.336E+01	4.876E+00	3.743E+00	3.974E+00	-2.684E+01	1.040E+02	-6.434E+01
Y	14	3	2	5	5	10	14	3	2	5	12	3
Y MAXIMUM	2.716E+00	8.683E+00	-4.435E+00	1.324E+02	-6.624E+01	3.532E+01	2.716E+00	8.683E+00	-4.435E+00	1.324E+02	-4.847E+01	-9.660E+01
Z	2	2	2	3	2	3	2	2	2	3	8	2
Z MAXIMUM	1.105E+01	-1.888E+01	2.861E+01	9.031E+01	-4.222E+02	2.962E+01	1.105E+01	-1.888E+01	2.861E+01	9.031E+01	1.426E+02	2.293E+02
GRAND TOTAL	1.696E+01	3.550E+01	3.671E+01	2.354E+02	5.907E+02	8.521E+01	1.696E+01	3.550E+01	3.671E+01	2.354E+02	2.159E+02	4.403E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (47)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	17	17	17	12	17	17	17	17	17	17	3
X MAXIMUM	-3.230E+00	-1.520E+00	2.851E+00	-2.684E+01	1.040E+02	-6.434E+01	-3.230E+00	-1.520E+00	2.851E+00	-2.684E+01	1.290E+02	-8.211E+01
Y	2	3	2	5	12	3	2	3	2	5	2	3
Y MAXIMUM	-5.699E+00	2.550E+00	-4.175E+00	1.324E+02	-4.847E+01	-9.660E+01	-5.699E+00	2.550E+00	-4.175E+00	1.324E+02	-2.454E+02	-2.496E+02
Z	2	2	2	3	8	2	2	2	2	3	2	2
Z MAXIMUM	3.677E+01	-8.534E+00	2.694E+01	9.031E+01	1.426E+02	2.293E+02	3.677E+01	-8.534E+00	2.694E+01	9.031E+01	1.584E+03	7.414E+02
GRAND TOTAL	4.405E+01	1.377E+01	3.383E+01	2.354E+02	2.159E+02	4.403E+02	4.405E+01	1.377E+01	3.383E+01	2.354E+02	1.468E+03	1.212E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (48)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	3	3	12	17	17	3	3	3	12	17	12	12
X MAXIMUM	2.549E+00	-3.699E+00	-7.769E+00	-2.684E+01	1.290E+02	-8.211E+01	2.549E+00	-3.699E+00	-7.769E+00	-2.684E+01	-8.699E+01	-2.263E+01
Y	2	3	12	5	2	3	2	3	12	5	2	2
Y MAXIMUM	-1.237E+01	-1.124E+01	3.619E+00	1.324E+02	-2.454E+02	-2.496E+02	-1.237E+01	-1.124E+01	3.619E+00	1.324E+02	-3.218E+02	-6.179E+01
Z	2	3	2	3	2	2	2	3	2	3	2	2
Z MAXIMUM	7.941E+01	-1.537E+01	2.047E+01	9.031E+01	1.584E+03	7.414E+02	7.941E+01	-1.537E+01	2.047E+01	9.031E+01	2.076E+03	3.9A6E+02
GRAND TOTAL	4.427E+01	-3.529E+01	2.697E+01	2.354E+02	1.468E+03	1.212E+03	4.427E+01	-3.529E+01	2.697E+01	2.354E+02	2.491E+03	4.466E+02

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (49)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	3	12	3	17	12	12	12	12	3	3	17	12
X MAXIMUM	2.549E+00	-7.769E+00	3.644E+00	-2.684E+01	-2.263E+01	8.849E+01	-6.337E+00	-4.650E+00	3.694E+00	2.512E+01	2.493E+01	1.121E+02
Y	2	2	3	5	2	2	2	2	3	5	5	2
Y MAXIMUM	-1.237E+01	3.619E+00	1.124E+01	1.324E+02	-6.179E+01	3.218E+02	-1.099E+01	6.503E+00	1.124E+01	8.015E+01	-4.070E+01	3.156E+02
Z	2	2	3	3	2	2	2	2	3	2	2	2
Z MAXIMUM	7.981E+01	2.047E+01	1.537E+01	9.031E+01	3.986E+02	-2.076E+03	7.091E+01	-4.196E+01	1.537E+01	2.243E+02	2.754E+02	-2.036E+03
GRAND TOTAL	9.427E+01	2.607E+01	3.524E+01	2.354E+02	4.466E+02	2.491E+03	8.305E+01	5.167E+01	3.524E+01	3.697E+02	3.209E+02	2.439E+03

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (49)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	12	3	3	12	17	12
X MAXIMUM	-7.769E+00	-2.549E+00	3.674E+00	-3.079E+01	2.344E+01	1.186E+02
Y	12	2	3	3	5	2
Y MAXIMUM	3.619E+00	1.237E+01	1.124E+01	7.153E+01	-9.278E+01	2.804E+02
Z	2	2	3	2	3	2
Z MAXIMUM	2.047E+01	-7.981E+01	1.537E+01	3.345E+02	-2.115E+01	-1.809E+03
GRAND TOTAL	2.607E+01	9.427E+01	3.524E+01	4.692E+02	1.340E+02	2.170E+03

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (50)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	12	3	3	12	12	17	12	3	3	12	12	3
X MAXIMUM	-7.769E+00	-3.649E+00	-2.544E+00	-3.079E+01	-1.186E+02	2.344E+01	-7.769E+00	-3.699E+00	-2.544E+00	-3.074E+01	-1.018E+02	4.685E+01
Y	12	3	2	3	2	5	12	3	2	3	2	3
Y MAXIMUM	3.619E+00	-1.124E+01	1.237E+01	7.153E+01	-2.804E+02	-9.278E+01	3.619E+00	-1.124E+01	1.237E+01	7.153E+01	-1.067E+02	1.424E+02
Z	2	3	2	2	2	3	2	3	2	2	2	2
Z MAXIMUM	2.047E+01	-1.537E+01	-7.981E+01	3.345E+02	1.809E+03	-2.115E+01	2.047E+01	-1.537E+01	-7.981E+01	3.345E+02	6.886E+02	-2.092E+02
GRAND TOTAL	2.607E+01	3.524E+01	9.427E+01	4.692E+02	2.170E+03	1.340E+02	2.607E+01	3.524E+01	9.427E+01	4.692E+02	8.539E+02	4.759E+02

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (51)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	12	3	12	12	12	3	12	3	12	12	3	3
X MAXIMUM	-1.063E+01	-6.165E+00	4.853E+00	-3.079E+01	-1.018E+02	4.685E+01	-1.063E+01	-6.165E+00	4.853E+00	-3.079E+01	-5.805E+01	2.011E+02
Y	14	3	2	3	2	3	14	3	2	3	2	3
Y MAXIMUM	5.595E+00	1.874E+01	1.653E+01	7.153E+01	-1.007E+02	1.424E+02	5.595E+00	1.874E+01	1.653E+01	7.153E+01	3.068E+02	6.112E+02
Z	2	3	2	2	2	2	2	3	2	2	2	2
Z MAXIMUM	2.411E+01	-2.562E+01	-1.066E+02	3.345E+02	6.886E+02	-2.092E+02	2.411E+01	-2.562E+01	-1.066E+02	3.345E+02	1.980E+03	8.429E+02
GRAND TOTAL	3.400E+01	6.067E+01	1.261E+02	4.692E+02	8.539E+02	4.754E+02	3.400E+01	6.067E+01	1.261E+02	4.692E+02	2.310E+03	1.961E+03

ELEMENT TYPE (3/0 P I P E) / / / ELEMENT NUMBER (52)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	12	3	12	12	3	3	17	12	12	3	2	3
X MAXIMUM	-1.063E+01	-6.165E+00	4.853E+00	-3.079E+01	5.805E+01	-2.011E+02	-1.010E+01	6.546E+00	-4.853E+00	6.214E+01	3.650E+01	-2.213E+02
Y	14	3	2	3	2	3	3	3	2	2	2	3
Y MAXIMUM	5.595E+00	1.874E+01	-1.653E+01	7.153E+01	-3.068E+02	-6.112E+02	1.234E+01	1.416E+01	-1.653E+01	-2.754E+02	-2.329E+02	-6.725E+02
Z	2	3	2	2	2	2	3	2	2	2	2	2
Z MAXIMUM	2.411E+01	-2.562E+01	1.066E+02	3.345E+02	1.980E+03	8.429E+02	1.687E+01	-3.496E+01	1.066E+02	1.777E+03	1.503E+03	9.552E+02
GRAND TOTAL	3.400E+01	6.067E+01	1.261E+02	4.692E+02	2.310E+03	1.961E+03	2.955E+01	6.285E+01	1.261E+02	2.128E+03	1.707E+03	2.187E+03

E T TYPE (3/0 P I P E) / / / ELEMENT NUMBER (52)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	3	12	12	3	14	3

Y MAXIMUM 1.874E+01-5.595E+00-1.653E+01-3.612E+02 4.440E+01-7.013E+02
 Z 3 2 2 2
 Z 1 UM 2.562E+01-2.411E+01 1.066E+02 2.459E+03 1.454E+02 1.065E+03
 GR TOTAL 6.067E+01 3.400E+01 1.261E+02 2.877E+03 2.027E+02 2.348E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (53)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	3	12	12	3	3	14	3	12	12	3	3	12
X MAXIMUM	0.165E+00	4.853E+00	1.063E+01	7.327E+01	2.307E+02	1.678E+01	0.165E+00	4.853E+00	1.063E+01	7.327E+01	2.373E+02	6.646E+01
Y	3	2	14	2	3	10	3	2	14	2	3	2
Y MAXIMUM	1.874E+01	1.653E+01-5.595E+00-3.612E+02	7.013E+02	4.440E+01	1.874E+01	1.653E+01-5.595E+00-3.612E+02	7.212E+02	2.794E+02				
Z	3	2	2	2	2	2	3	2	2	2	2	2
Z MAXIMUM	2.562E+01-1.066E+02-2.411E+01	2.459E+03-1.065E+03	1.454E+02	2.562E+01-1.066E+02-2.411E+01	2.459E+03-1.440E+03	1.803E+03	2.562E+01-1.066E+02-2.411E+01	2.459E+03-1.440E+03	1.803E+03			
GRAND TOTAL	0.067E+01	1.261E+02	3.400E+01	2.877E+03	2.348E+03	2.027E+02	0.067E+01	1.261E+02	3.400E+01	2.877E+03	2.773E+03	2.064E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (54)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	3	12	12	3	3	12	3	12	12	3	12	12
X MAXIMUM	0.165E+00	4.845E+00	1.091E+01	7.327E+01	2.373E+02	6.646E+01	0.165E+00	4.845E+00	1.091E+01	7.327E+01	3.113E+02	1.460E+02
Y	3	2	14	2	3	2	3	2	14	2	3	2
Y MAXIMUM	1.874E+01	1.659E+01-5.845E+00-3.612E+02	7.212E+02	2.794E+02	1.874E+01	1.659E+01-5.845E+00-3.612E+02	7.432E+02	5.441E+02				
Z	3	2	2	2	2	2	3	2	2	2	2	2
Z MAXIMUM	2.562E+01-1.070E+02-2.433E+01	2.459E+03-1.440E+03	1.803E+03	2.562E+01-1.070E+02-2.433E+01	2.459E+03-1.828E+03	3.511E+03	2.562E+01-1.070E+02-2.433E+01	2.459E+03-1.828E+03	3.511E+03			
GRAND TOTAL	0.067E+01	1.265E+02	3.477E+01	2.877E+03	2.773E+03	2.064E+03	0.067E+01	1.265E+02	3.477E+01	2.877E+03	3.251E+03	4.083E+03

ELEMENT TYPE (H O U N D A R Y) / / / ELEMENT NUMBER (1)

HDRY=F HDRY=M
 X 1 0
 X MAXIMUM 3.628E-02 0.
 Y 1 0
 Y MAXIMUM -4.021E-02 0.
 Z 1 0
 Z MAXIMUM 2.377E-01 0.
 GRAND TOTAL 2.439E-01 0.

ELEMENT TYPE (H O U N D A R Y) / / / ELEMENT NUMBER (2)

HDRY=F HDRY=M
 X 0 0
 X MAXIMUM -4.470E-03 0.
 Y 0 0
 Y MAXIMUM -2.625E-02 0.
 Z 1 0
 Z MAXIMUM 2.391E-02 0.
 GRAND TOTAL 3.633E-02 0.

ELEMENT TYPE (H O U N D A R Y) / / / ELEMENT NUMBER (3)

HDRY=F HDRY=M
 X 5 0
 X MAXIMUM -5.363E-03 0.
 Y 5 0
 Y MAXIMUM -3.318E-02 0.
 Z 3 0
 Z MAXIMUM 6.632E-03 0.
 GRAND TOTAL 5.542E-02 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (4)

	BOUNDARY	
	BOUNDARY	
X	3	0
X MAXIMUM	-5.400E+03	0.
Y	3	0
Y MAXIMUM	-1.661E+02	0.
Z	2	0
Z MAXIMUM	5.018E+02	0.
GRAND TOTAL	6.018E+02	0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (5)

	BOUNDARY	
	BOUNDARY	
X	1	0
X MAXIMUM	-5.707E+00	0.
Y	11	0
Y MAXIMUM	-3.734E+01	0.
Z	1	0
Z MAXIMUM	-3.734E+01	0.
GRAND TOTAL	5.455E+01	0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (6)

-370-

	BOUNDARY	
	BOUNDARY	
X	17	0
X MAXIMUM	-7.387E+00	0.
Y	5	0
Y MAXIMUM	-1.424E+01	0.
Z	2	0
Z MAXIMUM	2.637E+01	0.
GRAND TOTAL	5.142E+01	0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (7)

	BOUNDARY	
	BOUNDARY	
X	13	0
X MAXIMUM	-1.179E+01	0.
Y	5	0
Y MAXIMUM	-7.706E+00	0.
Z	1	0
Z MAXIMUM	-2.734E+01	0.
GRAND TOTAL	3.430E+01	0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (8)

	BOUNDARY	
	BOUNDARY	
X	6	0
X MAXIMUM	-6.642E+00	0.
Y	0	0
Y MAXIMUM	-3.870E+01	0.
Z	1	0
Z MAXIMUM	2.605E+01	0.
GRAND TOTAL	4.878E+01	0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (9)

	BOUNDARY	
	BOUNDARY	
X	6	0

X MAXIMUM 1.542E+01 0.
Y 1 0
Y IUM 1.707E+01 0.
Z 1 0
Z MAXIMUM -1.009E+02 0.
GRAND TOTAL 1.063E+02 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (10)

NDRY=F BDRY=M
X 4 0
X MAXIMUM -2.300E+01 0.
Y 7 0
Y MAXIMUM -1.119E+01 0.
Z 2 0
Z MAXIMUM -3.880E+01 0.
GRAND TOTAL 6.909E+01 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (11)

NDRY=F BDRY=M
X 17 0
X MAXIMUM -4.469E+00 0.
Y 6 0
Y MAXIMUM -2.426E+01 0.
Z 3 0
Z MAXIMUM 1.282E+01 0.
GRAND TOTAL 5.398E+01 0.

371 ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (12)

NDRY=F BDRY=M
X 4 0
X MAXIMUM 2.295E+01 0.
Y 1 0
Y MAXIMUM 1.322E+01 0.
Z 1 0
Z MAXIMUM -7.814E+01 0.
GRAND TOTAL 4.642E+01 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (13)

NDRY=F BDRY=M
X 17 0
X MAXIMUM -1.454E+01 0.
Y 5 0
Y MAXIMUM -9.452E+00 0.
Z 2 0
Z MAXIMUM 1.079E+01 0.
GRAND TOTAL 2.432E+01 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (14)

NDRY=F BDRY=M
X 5 0
X MAXIMUM -7.640E+00 0.
Y 5 0
Y MAXIMUM -4.751E+01 0.
Z 3 0
Z MAXIMUM 7.244E+00 0.

GRAND TOTAL 5.036E+01 0.

ELEMENT TYPE (H U U N D A R Y

) / / / ELEMENT NUMBER (15)

	NDRY=F	NDRY=M
X	12	0
X MAXIMUM	6.410E+00 0.	
Y	2	0
Y MAXIMUM	3.014E+00 0.	
Z	2	0
Z MAXIMUM	-1.945E+01 0.	
GRAND TOTAL	2.721E+01 0.	

ELEMENT TYPE (H U U N D A R Y

) / / / ELEMENT NUMBER (16)

	NDRY=F	NDRY=M
X	12	0
X MAXIMUM	-1.091E+01 0.	
Y	14	0
Y MAXIMUM	5.845E+00 0.	
Z	2	0
Z MAXIMUM	2.433E+01 0.	
GRAND TOTAL	3.477E+01 0.	

ELEMENT TYPE (B U U N D A R Y

) / / / ELEMENT NUMBER (17)

-372-

	NDRY=F	NDRY=M
X	3	0
X MAXIMUM	-6.165E+00 0.	
Y	3	0
Y MAXIMUM	-1.874E+01 0.	
Z	3	0
Z MAXIMUM	-2.562E+01 0.	
GRAND TOTAL	6.067E+01 0.	

ELEMENT TYPE (B U U N D A R Y

) / / / ELEMENT NUMBER (18)

	NDRY=F	NDRY=M
X	12	0
X MAXIMUM	4.985E+00 0.	
Y	2	0
Y MAXIMUM	1.659E+01 0.	
Z	2	0
Z MAXIMUM	-1.070E+02 0.	
GRAND TOTAL	1.265E+02 0.	

ELEMENT TYPE (H U U N D A R Y

) / / / ELEMENT NUMBER (19)

	NDRY=F	NDRY=M
X	0	1
X MAXIMUM	0.	-5.351E+02
Y	0	1
Y MAXIMUM	0.	5.931E+02
Z	0	1
Z MAXIMUM	0.	-3.505E+03
GRAND TOTAL	0.	3.609E+03

EL TYPE (H U U N D A R Y

) / / / ELEMENT NUMBER (20)

NDRY=F NDRY=M

X	MAXIMUM	0.	-4.674E+02	1
Y		0		1
Y	MAXIMUM	0.	5.186E+02	1
Z		0		1
Z	MAXIMUM	0.	-3.005E+03	1
GRAND TOTAL		0.	3.187E+03	

ELEMENT TYPE (H U U N D A R Y)) / / / ELEMENT NUMBER (21)

		HORY=F	HORY=M	
X		0	13	
X	MAXIMUM	0.	3.350E+02	
Y		0	6	
Y	MAXIMUM	0.	1.450E+03	
Z		0	13	
Z	MAXIMUM	0.	-1.511E+02	
GRAND TOTAL		0.	1.574E+03	

ELEMENT TYPE (H U U N D A R Y)) / / / ELEMENT NUMBER (22)

		HORY=F	HORY=M	
X		0	1	
X	MAXIMUM	0.	3.556E+02	
Y		0	5	
Y	MAXIMUM	0.	-7.801E+02	
Z		0	1	
Z	MAXIMUM	0.	2.329E+03	
GRAND TOTAL		0.	2.505E+03	

373 ELEMENT TYPE (H U U N D A R Y)) / / / ELEMENT NUMBER (23)

		HORY=F	HORY=M	
X		0	4	
X	MAXIMUM	0.	-1.322E+03	
Y		0	1	
Y	MAXIMUM	0.	-1.408E+03	
Z		0	1	
Z	MAXIMUM	0.	4.501E+03	
GRAND TOTAL		0.	9.334E+03	

ELEMENT TYPE (H U U N D A R Y)) / / / ELEMENT NUMBER (24)

		HORY=F	HORY=M	
X		0	5	
X	MAXIMUM	0.	1.989E+02	
Y		0	5	
Y	MAXIMUM	0.	1.231E+03	
Z		0	2	
Z	MAXIMUM	0.	7.879E+02	
GRAND TOTAL		0.	2.467E+03	

ELEMENT TYPE (H U U N D A R Y)) / / / ELEMENT NUMBER (25)

		HORY=F	HORY=M	
X		0	12	
X	MAXIMUM	0.	1.401E+02	
Y		0	2	
Y	MAXIMUM	0.	-9.325E+01	
Z		0	2	

Z MAXIMUM 0. -6.016E+02
GRAND TOTAL 0. 6.574E+02

ELEMENT TYPE (H O U N D A R Y) / / / ELEMENT NUMBER (26)

NDRY=F NDRY=M
X 0 12
X MAXIMUM 0. 6.426E+01
Y 0 5
Y MAXIMUM 0. 6.319E+01
Z 0 2
Z MAXIMUM 0. -3.564E+02
GRAND TOTAL 0. 4.420E+02

ELEMENT TYPE (H O U N D A R Y) / / / ELEMENT NUMBER (27)

NDRY=F NDRY=M
X 0 17
X MAXIMUM 0. 4.022E+02
Y 0 5
Y MAXIMUM 0. 1.841E+03
Z 0 3
Z MAXIMUM 0. -3.721E+02
GRAND TOTAL 0. 2.097E+03

ELEMENT TYPE (H O U N D A R Y) / / / ELEMENT NUMBER (28)

-3/4-
NDRY=F NDRY=M
X 0 12
X MAXIMUM 0. 1.460E+02
Y 0 2
Y MAXIMUM 0. 5.441E+02
Z 0 2
Z MAXIMUM 0. -3.511E+03
GRAND TOTAL 0. 4.083E+03

ELEMENT TYPE (H O U N D A R Y) / / / ELEMENT NUMBER (29)

NDRY=F NDRY=M
X 0 3
X MAXIMUM 0. -7.327E+01
Y 0 2
Y MAXIMUM 0. 3.812E+02
Z 0 2
Z MAXIMUM 0. -2.459E+03
GRAND TOTAL 0. 2.877E+03

ELEMENT TYPE (H O U N D A R Y) / / / ELEMENT NUMBER (30)

NDRY=F NDRY=M
X 0 12
X MAXIMUM 0. 3.113E+02
Y 0 3
Y MAXIMUM 0. 7.432E+02
Z 0 2
Z MAXIMUM 0. -1.628E+03
GRAND TOTAL 0. 3.251E+03

Solution 7b

N O D E NUMBER	D I S P L A C E M E N T S / MODE NUMBER	T R A N S L A T I O N X- TRANSLATION	T R A N S L A T I O N Y- TRANSLATION	T R A N S L A T I O N Z- TRANSLATION	R O T A T I O N X- ROTATION	R O T A T I O N Y- ROTATION	R O T A T I O N Z- ROTATION
1	TOTAL..	0.	0.	0.	0.	0.	0.
2	TOTAL..	1.55467E-04	1.19429E-05	1.57043E-03	4.94392E-04	1.48708E-04	4.44529E-05
3	TOTAL..	0.	0.	0.	0.	0.	0.
4	TOTAL..	3.43767E-03	1.26264E-02	1.01751E-02	2.94328E-03	5.96539E-04	2.87845E-04
5	TOTAL..	2.98118E-02	1.37103E-01	1.02461E-02	4.65163E-03	9.90674E-04	4.81667E-04
6	TOTAL..	4.59000E-02	2.12881E-01	1.02577E-02	4.83055E-03	1.02069E-03	5.14153E-04
7	TOTAL..	0.	0.	0.	0.	0.	0.
8	TOTAL..	5.56728E-02	2.43834E-01	4.25286E-02	5.62345E-03	1.11966E-03	6.28900E-04
9	TOTAL..	0.	0.	0.	0.	0.	0.
10	TOTAL..	6.69469E-02	2.43860E-01	1.45987E-01	5.79563E-03	1.18029E-03	6.56293E-04
11	TOTAL..	8.48200E-02	2.43879E-01	3.11549E-01	5.47786E-03	1.27868E-03	6.02890E-04
12	TOTAL..	0.	0.	0.	0.	0.	0.
13	TOTAL..	8.01243E-02	2.14122E-01	3.42716E-01	4.65258E-03	1.36786E-03	4.99896E-04
14	TOTAL..	0.	0.	0.	0.	0.	0.
15	TOTAL..	5.49671E-02	1.34255E-01	3.42747E-01	4.24573E-03	1.43853E-03	4.08729E-04
16	TOTAL..	9.78727E-03	1.55975E-02	3.42760E-01	3.68913E-03	1.57518E-03	2.63847E-04
17	TOTAL..	0.	0.	0.	0.	0.	0.
18	TOTAL..	6.49741E-05	4.35672E-03	3.32962E-01	3.33050E-03	1.75708E-03	2.84136E-04
	TOTAL..	0.	0.	0.	0.	0.	0.

21 TOTAL..	0.	0.	0.	0.	0.	0.
22 TOTAL..	0.	0.	0.	0.	0.	0.
23 TOTAL..	0.	0.	0.	0.	0.	0.
24 TOTAL..	0.	0.	0.	0.	0.	0.
25 TOTAL..	5.23563E-05	6.60169E-03	2.34972E-01	2.43411E-03	2.11064E-03	1.28065E-04
26 TOTAL..	0.	0.	0.	0.	0.	0.
27 TOTAL..	0.	0.	0.	0.	0.	0.
28 TOTAL..	0.	0.	0.	0.	0.	0.
29 TOTAL..	0.	0.	0.	0.	0.	0.
30 TOTAL..	3.48214E-05	9.07263E-03	1.12155E-01	1.16055E-03	1.86262E-03	6.52944E-05
31 TOTAL..	3.30127E-02	2.67433E-02	7.92335E-02	5.74424E-04	9.99972E-04	2.24041E-04
32 TOTAL..	0.	0.	0.	0.	0.	0.
33 TOTAL..	3.56082E-02	2.85857E-02	7.80765E-02	4.59424E-04	6.50236E-04	2.41920E-04
34 TOTAL..	0.	0.	0.	0.	0.	0.
35 TOTAL..	4.24359E-02	3.51292E-02	7.80624E-02	2.75539E-04	7.69821E-05	3.54256E-04
36 TOTAL..	0.	0.	0.	0.	0.	0.
37 TOTAL..	0.	0.	0.	0.	0.	0.
38 TOTAL..	0.	0.	0.	0.	0.	0.
39 TOTAL..	0.	0.	0.	0.	0.	0.
40 TOTAL..	2.63131E-02	3.63275E-02	7.80325E-02	3.09802E-04	8.87441E-04	5.58850E-04
41 TOTAL..	6.88671E-03	3.36675E-02	7.80109E-02	3.73240E-04	1.25624E-03	6.71433E-04

41 TOTAL..	6.88671E-03	3.36675E-02	7.80109E-02	3.73240E-04	1.25624E-03	6.71433E-04
42 TOTAL..	0.	0.	0.	0.	0.	0.
43 TOTAL..	0.	0.	0.	0.	0.	0.
44 TOTAL..	5.11998E-03	2.97594E-02	7.13880E-02	4.03939E-04	1.57075E-03	7.37455E-04
45 TOTAL..	5.12024E-03	1.93420E-02	4.90733E-02	4.10437E-04	1.59581E-03	7.42827E-04
46 TOTAL..	5.11960E-03	2.15629E-03	1.18213E-02	4.47595E-04	1.26529E-03	5.77909E-04
47 TOTAL..	0.	0.	0.	0.	0.	0.
48 TOTAL..	3.37884E-03	1.25454E-05	5.29494E-03	3.16719E-04	8.21938E-04	2.83677E-04
49 TOTAL..	0.	0.	0.	0.	0.	0.
50 TOTAL..	6.13479E-04	3.23592E-06	1.29778E-03	1.43780E-04	2.09646E-04	7.50570E-05
51 TOTAL..	0.	0.	0.	0.	0.	0.
52 TOTAL..	0.	0.	0.	0.	0.	0.
53 TOTAL..	0.	0.	0.	0.	0.	0.
54 TOTAL..	0.	0.	0.	0.	0.	0.
55 TOTAL..	3.42997E-08	4.87836E-08	1.06340E-07	3.68907E-08	3.18684E-08	1.57940E-08
56 TOTAL..	0.	0.	0.	0.	0.	0.
57 TOTAL..	0.	0.	0.	0.	0.	0.
58 TOTAL..	0.	0.	0.	0.	0.	0.
59 TOTAL..	0.	0.	0.	0.	0.	0.
60 TOTAL..	1.74375E-05	4.42260E-03	3.39883E-02	5.80285E-04	1.28427E-03	1.34465E-04
TOTAL..	0.	0.	0.	0.	0.	0.

62 TOTAL..	0.	0.	0.	0.	0.	0.
63 TOTAL..	0.	0.	0.	0.	0.	0.
64 TOTAL..	0.	0.	0.	0.	0.	0.
65 TOTAL..	6.64194E-08	5.26560E-08	9.64418E-08	2.55234E-08	9.30994E-08	2.79001E-08
66 TOTAL..	0.	0.	0.	0.	0.	0.
67 TOTAL..	0.	0.	0.	0.	0.	0.
68 TOTAL..	0.	0.	0.	0.	0.	0.
69 TOTAL..	0.	0.	0.	0.	0.	0.
70 TOTAL..	1.73074E-05	5.77948E-03	6.51146E-03	1.71361E-04	2.66325E-04	2.30211E-04
71 TOTAL..	3.67567E-03	1.78217E-02	1.01101E-02	3.29921E-04	9.81044E-05	4.11900E-04
72 TOTAL..	0.	0.	0.	0.	0.	0.
73 TOTAL..	3.86587E-03	1.93458E-02	1.01827E-02	3.59946E-04	8.28856E-05	4.36354E-04
74 TOTAL..	0.	0.	0.	0.	0.	0.
75 TOTAL..	4.55571E-03	2.61843E-02	1.01823E-02	3.49682E-04	1.00064E-04	5.29422E-04
76 TOTAL..	0.	0.	0.	0.	0.	0.
77 TOTAL..	0.	0.	0.	0.	0.	0.
78 TOTAL..	0.	0.	0.	0.	0.	0.
79 TOTAL..	0.	0.	0.	0.	0.	0.
80 TOTAL..	5.42770E-03	3.53429E-02	1.01793E-02	1.76977E-04	7.62735E-05	6.97543E-04
81 TOTAL..	6.21772E-03	3.74373E-02	1.01748E-02	9.70690E-05	6.96363E-05	7.90443E-04
82 TOTAL..	0.	0.	0.	0.	0.	0.
83 TOTAL..	0.	0.	0.	0.	0.	0.

83 TOTAL..	0.	0.	0.	0.	0.	0.
84 TOTAL..	6.37064E-03	3.40127E-02	9.60726E-03	6.88400E-05	1.71311E-04	8.43203E-04
85 TOTAL..	6.37016E-03	2.21285E-02	7.08138E-03	6.67547E-05	1.89452E-04	8.46047E-04
86 TOTAL..	6.36538E-03	2.52060E-03	2.13710E-03	7.49095E-05	1.81430E-04	6.66013E-04
87 TOTAL..	0.	0.	0.	0.	0.	0.
88 TOTAL..	4.29490E-03	1.29248E-05	1.14238E-03	6.44486E-05	1.22220E-04	3.45265E-04
89 TOTAL..	0.	0.	0.	0.	0.	0.
90 TOTAL..	8.07270E-04	3.33377E-06	2.92747E-04	3.19739E-05	3.11738E-05	9.77820E-05
91 TOTAL..	0.	0.	0.	0.	0.	0.
92 TOTAL..	0.	0.	0.	0.	0.	0.
93 TOTAL..	0.	0.	0.	0.	0.	0.
94 TOTAL..	0.	0.	0.	0.	0.	0.
95 TOTAL..	2.89831E-08	5.02588E-08	2.68013E-08	8.44024E-09	4.73876E-09	2.08771E-08
96 TOTAL..	0.	0.	0.	0.	0.	0.
97 TOTAL..	0.	0.	0.	0.	0.	0.
98 TOTAL..	1.85294E-05	6.71957E-03	7.65556E-03	1.71306E-04	2.92870E-04	2.29752E-04
99 TOTAL..	0.	0.	0.	0.	0.	0.
100 TOTAL..	1.97170E-05	7.62809E-03	8.86419E-03	1.71260E-04	3.16823E-04	2.28890E-04
101 TOTAL..	0.	0.	0.	0.	0.	0.
102 TOTAL..	0.	0.	0.	0.	0.	0.
TOTAL..	0.	0.	0.	0.	0.	0.
104 TOTAL..	0.	0.	0.	0.	0.	0.

104 TOTAL..	0.	0.	0.	0.	0.	0.
105 TOTAL..	4.26156E-05	1.57792E-02	3.72946E-02	2.26450E-04	6.36454E-04	9.07546E-05
106 TOTAL..	0.	0.	0.	0.	0.	0.
107 TOTAL..	0.	0.	0.	0.	0.	0.
108 TOTAL..	0.	0.	0.	0.	0.	0.
109 TOTAL..	0.	0.	0.	0.	0.	0.
110 TOTAL..	6.91141E-05	5.00062E-08	6.53666E-02	3.52109E-04	2.36791E-04	6.23037E-04
111 TOTAL..	8.56643E-05	3.10439E-02	6.61158E-02	4.41375E-04	1.76922E-04	9.56425E-04
112 TOTAL..	0.	0.	0.	0.	0.	0.
113 TOTAL..	1.20983E-03	3.73855E-02	6.52424E-02	4.70936E-04	2.88810E-04	9.97283E-04
114 TOTAL..	0.	0.	0.	0.	0.	0.
115 TOTAL..	5.45513E-03	4.34049E-02	6.52403E-02	4.49318E-04	3.22046E-04	1.02563E-03
116 TOTAL..	0.	0.	0.	0.	0.	0.
117 TOTAL..	0.	0.	0.	0.	0.	0.
118 TOTAL..	0.	0.	0.	0.	0.	0.
119 TOTAL..	0.	0.	0.	0.	0.	0.
120 TOTAL..	1.43381E-02	5.83504E-02	6.52088E-02	1.10144E-04	2.27930E-04	1.15786E-03
121 TOTAL..	6.71447E-03	5.57024E-02	6.51813E-02	2.03229E-04	7.17912E-04	1.21365E-03
122 TOTAL..	0.	0.	0.	0.	0.	0.
123 TOTAL..	0.	0.	0.	0.	0.	0.
124 TOTAL..	9.54248E-03	4.92499E-02	6.04354E-02	2.45884E-04	1.21258E-03	1.24176E-03
125 TOTAL..	9.54135E-03	3.18344E-02	4.29071E-02	2.58303E-04	1.27826E-03	1.23294E-03

125 TOTAL..	9.54135E-03	3.18344E-02	4.29071E-02	2.58303E-04	1.27826E-03	1.23294E-03
126 TOTAL..	9.53288E-03	3.64243E-03	1.13548E-02	3.86622E-04	1.10559E-03	9.55434E-04
127 TOTAL..	0.	0.	0.	0.	0.	0.
128 TOTAL..	6.46035E-03	1.51512E-05	5.51028E-03	3.12192E-04	7.31327E-04	5.13361E-04
129 TOTAL..	0.	0.	0.	0.	0.	0.
130 TOTAL..	1.21984E-03	3.90802E-06	1.40095E-03	1.53460E-04	1.86534E-04	1.47654E-04
131 TOTAL..	0.	0.	0.	0.	0.	0.
132 TOTAL..	0.	0.	0.	0.	0.	0.
133 TOTAL..	0.	0.	0.	0.	0.	0.
134 TOTAL..	0.	0.	0.	0.	0.	0.
135 TOTAL..	0.	0.	0.	0.	0.	0.
136 TOTAL..	0.	0.	0.	0.	0.	0.
137 TOTAL..	0.	0.	0.	0.	0.	0.
138 TOTAL..	0.	0.	0.	0.	0.	0.
139 TOTAL..	0.	0.	0.	0.	0.	0.
140 TOTAL..	3.39574E-08	5.89160E-08	1.24625E-07	4.02654E-08	2.83552E-08	3.15271E-08
141 TOTAL..	0.	0.	0.	0.	0.	0.
142 TOTAL..	0.	0.	0.	0.	0.	0.
143 TOTAL..	0.	0.	0.	0.	0.	0.
144 TOTAL..	0.	0.	0.	0.	0.	0.
145 TOTAL..	0.	0.	0.	0.	0.	0.

TOTAL..	0.	0.	0.	0.	0.	0.
148 TOTAL..	0.	0.	0.	0.	0.	0.
149 TOTAL..	0.	0.	0.	0.	0.	0.
150 TOTAL..	0.	0.	0.	0.	0.	0.
151 TOTAL..	0.	0.	0.	0.	0.	0.
152 TOTAL..	0.	0.	0.	0.	0.	0.
153 TOTAL..	0.	0.	0.	0.	0.	0.
154 TOTAL..	0.	0.	0.	0.	0.	0.
155 TOTAL..	0.	0.	0.	0.	0.	0.
156 TOTAL..	0.	0.	0.	0.	0.	0.
157 TOTAL..	0.	0.	0.	0.	0.	0.
158 TOTAL..	0.	0.	0.	0.	0.	0.
159 TOTAL..	0.	0.	0.	0.	0.	0.
160 TOTAL..	0.	0.	0.	0.	0.	0.
161 TOTAL..	0.	0.	0.	0.	0.	0.
162 TOTAL..	0.	0.	0.	0.	0.	0.
163 TOTAL..	0.	0.	0.	0.	0.	0.
164 TOTAL..	0.	0.	0.	0.	0.	0.
165 TOTAL..	0.	0.	0.	0.	0.	0.
166 TOTAL..	0.	0.	0.	0.	0.	0.
167 TOTAL..	0.	0.	0.	0.	0.	0.

167 TOTAL..	0.	0.	0.	0.	0.	0.
168 TOTAL..	0.	0.	0.	0.	0.	0.
169 TOTAL..	0.	0.	0.	0.	0.	0.
170 TOTAL..	0.	0.	0.	0.	0.	0.

RESPONSE SPECTRUM STRESS COMPONENTS (KIND = 2)

OR ELEMENT, THE FOLLOWING INFORMATION IS PRINTED:

1. FOR EACH EARTH QUAKE DIRECTION; THE NUMBER OF THE MODE WITH THE LARGEST STRESS.
 2. THE VALUE OF THAT STRESS.
 3. IF REQUESTED; THE MODE BY MODE STRESSES FOR EACH EARTH QUAKE DIRECTION.
 4. THE RESULTANT FOR EACH EARTH QUAKE DIRECTION.
 5. THE GRAND TOTAL OF THE THREE EARTH QUAKE DIRECTIONS.
- (NOTE: THE X, Y, OR Z REFERS TO THE EARTH QUAKE DIRECTION.)

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (1)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		1	1	4	4	4	1	1	1	4	4	4
X MAXIMUM	3.481E+01	3.941E+01	-3.957E+01	2.103E+03	6.162E+02	3.299E+03	3.481E+01	3.941E+01	-3.957E+01	2.103E+03	3.788E+02	3.063E+03
Y	1	1	1	1	1	1	1	1	1	1	1	1
Y MAXIMUM	-3.858E+01	-4.368E+01	1.047E+01	-6.964E+02	-3.254E+02	-3.657E+03	-3.858E+01	-4.368E+01	1.047E+01	-6.964E+02	-2.626E+02	-3.394E+03
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	2.280E+02	2.582E+02	-6.190E+01	4.116E+03	1.920E+03	2.161E+04	2.280E+02	2.582E+02	-6.190E+01	4.116E+03	1.552E+03	2.006E+04
GRAND TOTAL	2.369E+02	2.665E+02	8.072E+01	4.947E+03	2.106E+03	2.217E+04	2.369E+02	2.665E+02	8.072E+01	4.947E+03	1.656E+03	2.059E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (2)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	M7(C)
X		1	1	4	4	4		7	1	4	4	1
X MAXIMUM	3.481E+01	-3.941E+01	3.957E+01	2.103E+03	-3.788E+02	-3.063E+03	-1.086E+01	-5.248E+01	3.957E+01	1.288E+03	-1.587E+03	-2.835E+03
Y	1	1	1	1	1	1	1	1	1	1	1	1
Y MAXIMUM	-3.858E+01	4.368E+01	-1.047E+01	-6.964E+02	2.626E+02	3.394E+03	-4.054E+01	5.816E+01	-1.047E+01	-3.251E+02	6.337E+02	3.141E+03
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	2.280E+02	-2.582E+02	6.190E+01	4.116E+03	-1.552E+03	-2.006E+04	-2.132E+01	-3.438E+02	6.190E+01	1.922E+03	-3.745E+03	-1.857E+04
GRAND TOTAL	2.369E+02	2.665E+02	8.072E+01	4.947E+03	1.656E+03	2.059E+04	5.266E+01	3.527E+02	8.072E+01	2.546E+03	4.295E+03	1.906E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (2)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		1	1	4	1	4
X MAXIMUM	-3.941E+01	-3.481E+01	3.957E+01	-1.803E+02	-1.865E+03	-2.618E+03
Y	1	1	1	1	1	1
Y MAXIMUM	4.368E+01	3.858E+01	-1.047E+01	1.998E+02	6.335E+02	2.901E+03
Z	1	1	1	1	1	1
Z MAXIMUM	-2.582E+02	-2.280E+02	6.190E+01	-1.181E+03	-3.745E+03	-1.715E+04
GRAND TOTAL	2.665E+02	2.369E+02	8.072E+01	1.233E+03	4.468E+03	1.760E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (3)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		1	1	4	1	4	1	1	1	4	1	4
X MAXIMUM	-3.941E+01	-3.481E+01	3.957E+01	-1.803E+02	-1.865E+03	-2.618E+03	-3.941E+01	-3.481E+01	3.957E+01	-1.803E+02	-5.975E+02	-1.502E+03
Y	1	1	1	1	1	1	1	1	1	1	1	1
Y MAXIMUM	4.368E+01	3.858E+01	-1.047E+01	1.998E+02	6.335E+02	2.901E+03	4.368E+01	3.858E+01	-1.047E+01	1.998E+02	2.980E+02	1.665E+03
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	-2.582E+02	-2.280E+02	6.190E+01	-1.181E+03	-3.745E+03	-1.715E+04	-2.582E+02	-2.280E+02	6.190E+01	-1.181E+03	-1.761E+03	-9.841E+03
GRAND TOTAL	2.665E+02	2.369E+02	8.072E+01	1.233E+03	4.468E+03	1.760E+04	2.665E+02	2.369E+02	8.072E+01	1.233E+03	1.947E+03	1.011E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (4)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	M7(J)
X		1	1	4	1	4	1	1	1	4	1	4
X MAXIMUM	-3.869E+01	-2.518E+01	2.153E+01	-1.803E+02	-5.975E+02	-1.502E+03	-3.869E+01	-2.518E+01	2.153E+01	-1.803E+02	-2.559E+02	-1.100E+03
Y	1	1	1	1	1	1	1	1	1	1	1	1
Y MAXIMUM	4.288E+01	2.791E+01	-8.452E+00	1.998E+02	2.980E+02	1.665E+03	4.288E+01	2.791E+01	-8.452E+00	1.998E+02	1.631E+02	1.220E+03
Z	1	1	1	1	1	1	1	1	1	1	1	1

1 MAXIMUM 4.200E+01 2.791E+01-8.452E+00 1.999E+02 2.700E+02 1.650E+02 4.995E+01 2.791E+01-8.452E+00 1.999E+02 2.700E+02 1.650E+02 4.995E+01-1.181E+03-9.640E+02-7.208E+03
 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Z MAXIMUM -2.534E+02-1.650E+02 4.995E+01-1.181E+03-1.761E+03-9.640E+02-2.534E+02-1.650E+02 4.995E+01-1.181E+03-9.640E+02-7.208E+03
 GRAND TOTAL 2.619E+02 1.701E+02 5.751E+01 1.233E+03 1.947E+03 1.011E+04 2.619E+02 1.701E+02 5.751E+01 1.233E+03 1.947E+03 1.011E+04 2.619E+02 1.701E+02 5.751E+01 1.233E+03 1.947E+03 1.011E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (5)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	1	1	1	4	1	4	1	1	1	4	1	1
X MAXIMUM	-3.869E+01	2.518E+01	-2.153E+01	-1.803E+02	2.539E+02	1.100E+03	-9.552E+00	4.516E+01	-2.153E+01	4.169E+01	1.992E+02	9.256E+02
Y	1	1	1	1	1	1	1	1	1	1	1	1
Y MAXIMUM	4.288E+01	-2.791E+01	8.452E+00	1.999E+02	-1.631E+02	-1.220E+03	-2.919E+01	-5.005E+01	8.452E+00	4.078E+01	-2.207E+02	-1.026E+03
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	-2.534E+02	1.650E+02	-4.995E+01	-1.181E+03	9.640E+02	7.208E+03	-6.257E+01	2.958E+02	-4.995E+01	-2.410E+02	1.305E+03	6.063E+03
GRAND TOTAL	2.619E+02	1.701E+02	5.751E+01	1.233E+03	1.947E+03	1.011E+04	2.619E+02	1.701E+02	5.751E+01	1.233E+03	1.947E+03	1.011E+04

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (5)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	4	4	1
X MAXIMUM	2.518E+01	3.869E+01	-2.153E+01	1.247E+02	1.345E+02	7.172E+02
Y	1	1	1	1	1	1
Y MAXIMUM	-2.791E+01	-4.288E+01	8.452E+00	-1.124E+02	-1.491E+02	-7.948E+02
Z	1	1	1	1	1	1
Z MAXIMUM	1.650E+02	-2.534E+02	-4.995E+01	6.643E+02	8.810E+02	4.698E+03
GRAND TOTAL	1.701E+02	2.619E+02	5.751E+01	7.031E+02	9.182E+02	4.882E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (6)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	4	4	1	1	1	1	4	4	7
X MAXIMUM	2.518E+01	3.869E+01	-2.153E+01	1.247E+02	1.345E+02	7.172E+02	2.518E+01	3.869E+01	-2.153E+01	1.247E+02	-3.752E+02	8.527E+01
Y	1	1	1	1	1	1	1	1	1	1	1	1
Y MAXIMUM	-2.791E+01	-4.288E+01	8.452E+00	-1.124E+02	-1.491E+02	-7.948E+02	-2.791E+01	-4.288E+01	8.452E+00	-1.124E+02	-1.124E+02	1.316E+02
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	1.650E+02	-2.534E+02	-4.995E+01	6.643E+02	8.810E+02	4.698E+03	1.650E+02	-2.534E+02	-4.995E+01	6.643E+02	2.311E+02	1.361E+02
GRAND TOTAL	1.701E+02	2.619E+02	5.751E+01	7.031E+02	9.182E+02	4.882E+03	1.701E+02	2.619E+02	5.751E+01	7.031E+02	4.899E+02	2.753E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (7)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	4	4	4	7	1	1	4	4	1
X MAXIMUM	1.157E+01	3.052E+01	6.961E+00	1.247E+02	-3.752E+02	8.527E+01	1.157E+01	3.052E+01	6.961E+00	1.247E+02	-1.731E+02	-8.655E+02
Y	1	1	1	1	1	1	1	1	1	1	1	1
Y MAXIMUM	-1.282E+01	-3.382E+01	5.310E+00	-1.124E+02	-1.128E+02	1.316E+02	-1.282E+01	-3.382E+01	5.310E+00	-1.124E+02	1.396E+02	9.591E+02
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	7.578E+01	1.999E+02	-2.778E+01	6.643E+02	2.311E+02	1.361E+02	7.578E+01	1.999E+02	-2.778E+01	6.643E+02	-8.249E+02	-5.669E+03
GRAND TOTAL	7.799E+01	2.070E+02	3.153E+01	7.031E+02	4.899E+02	2.753E+02	7.799E+01	2.070E+02	3.153E+01	7.031E+02	8.940E+02	5.847E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (8)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	1	1	1	4	4	4	1	1	1	4	4	1
X MAXIMUM	1.157E+01	3.052E+01	6.961E+00	1.247E+02	-1.731E+02	-8.655E+02	2.974E+01	1.340E+01	6.961E+00	4.974E+01	-1.810E+02	-9.746E+02
Y	1	1	1	1	1	1	1	1	1	1	1	1
Y MAXIMUM	-1.282E+01	-3.382E+01	5.310E+00	-1.124E+02	1.396E+02	9.591E+02	-3.298E+01	-1.485E+01	5.310E+00	-1.252E+02	1.981E+02	1.080E+03
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	7.578E+01	1.999E+02	-2.778E+01	6.643E+02	-8.249E+02	-5.669E+03	1.949E+02	8.774E+01	-2.778E+01	-1.624E+02	-1.171E+03	-6.384E+03
GRAND TOTAL	7.799E+01	2.070E+02	3.153E+01	7.031E+02	8.940E+02	5.847E+03	2.014E+02	9.151E+01	3.153E+01	2.465E+02	1.244E+03	6.588E+03

ELI TYPE (3/D P I P E) / / / ELEMENT NUMBER (8)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	4	1	1

X MAXIMUM 3.052E+01 -1.157E+01 6.961E+00 -1.514E+02 -1.269E+02 -9.791E+02
Y MAXIMUM -3.382E+01 1.282E+01 5.310E+00 1.678E+02 1.406E+02 1.085E+03
Z MAXIMUM 1.999E+02 -7.578E+01 -2.778E+01 -9.916E+02 -8.310E+02 -6.414E+03
GRAND TOTAL 2.070E+02 7.799E+01 3.153E+01 1.060E+03 8.666E+02 6.621E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (9)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	7	4	1	1	1	1	1	1	1	1
X MAXIMUM	3.052E+01	-1.157E+01	6.961E+00	-1.514E+02	-1.269E+02	-9.791E+02	3.052E+01	-1.157E+01	6.961E+00	-1.514E+02	-2.032E+02	-7.709E+02
Y	1	1	7	1	1	1	1	1	1	1	1	1
Y MAXIMUM	-3.382E+01	1.282E+01	5.310E+00	1.678E+02	1.406E+02	1.085E+03	-3.382E+01	1.282E+01	5.310E+00	1.678E+02	2.252E+02	8.543E+02
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	1.999E+02	-7.578E+01	-2.778E+01	-9.916E+02	-8.310E+02	-6.414E+03	1.999E+02	-7.578E+01	-2.778E+01	-9.916E+02	-1.331E+03	-5.050E+03
GRAND TOTAL	2.070E+02	7.799E+01	3.153E+01	1.060E+03	8.666E+02	6.621E+03	2.070E+02	7.799E+01	3.153E+01	1.060E+03	1.397E+03	5.221E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (10)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	7	4	1	1	1	1	7	4	1	4	1
X MAXIMUM	9.902E+00	-4.963E+00	2.726E+01	-1.514E+02	-2.032E+02	-7.709E+02	9.902E+00	-4.963E+00	2.726E+01	-1.514E+02	8.600E+02	-6.659E+02
Y	1	11	7	1	1	1	1	11	7	1	7	1
Y MAXIMUM	-1.097E+01	-2.038E+01	8.334E+00	1.678E+02	2.252E+02	8.543E+02	-1.097E+01	-2.038E+01	8.334E+00	1.678E+02	3.720E+02	7.380E+02
Z	1	1	4	1	1	1	1	1	4	1	1	1
Z MAXIMUM	6.486E+01	-2.292E+01	-1.678E+01	-9.916E+02	-1.331E+03	-5.050E+03	6.486E+01	-2.292E+01	-1.678E+01	-9.916E+02	-1.554E+03	-4.362E+03
GRAND TOTAL	6.936E+01	3.331E+01	3.743E+01	1.060E+03	1.397E+03	5.221E+03	6.936E+01	3.331E+01	3.743E+01	1.060E+03	2.008E+03	4.479E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (11)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	1	4	7	1	1	1	4	4	7	1	1	4
X MAXIMUM	9.902E+00	2.726E+01	4.963E+00	-1.514E+02	-6.659E+02	-8.600E+02	1.606E+01	2.249E+01	4.963E+00	-5.718E+02	-3.490E+02	-9.836E+02
Y	1	7	11	1	1	1	7	7	11	1	1	7
Y MAXIMUM	-1.097E+01	8.334E+00	2.038E+01	1.678E+02	7.380E+02	3.720E+02	1.247E+01	8.650E+00	2.038E+01	6.337E+02	3.868E+02	3.910E+02
Z	1	4	1	1	1	1	1	1	4	1	1	1
Z MAXIMUM	6.486E+01	-1.678E+01	2.292E+01	-9.916E+02	-4.362E+03	1.554E+03	4.060E+01	-5.113E+01	2.292E+01	-3.745E+03	-2.286E+03	1.700E+03
GRAND TOTAL	6.936E+01	3.743E+01	3.331E+01	1.060E+03	4.479E+03	2.008E+03	5.133E+01	5.940E+01	3.331E+01	3.856E+03	2.355E+03	2.215E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (11)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	4	1	7	1	1	4
X MAXIMUM	2.726E+01	-9.902E+00	4.963E+00	-6.449E+02	1.724E+02	-1.051E+03
Y	7	11	1	1	1	7
Y MAXIMUM	8.334E+00	1.097E+01	2.038E+01	7.148E+02	-1.910E+02	-3.662E+02
Z	4	1	1	1	1	1
Z MAXIMUM	-1.678E+01	-6.486E+01	2.292E+01	-4.225E+03	1.129E+03	1.988E+03
GRAND TOTAL	3.743E+01	6.936E+01	3.331E+01	4.343E+03	1.198E+03	2.485E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (12)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	4	7	1	1	4	1	4	7	1	1	4	1
X MAXIMUM	2.726E+01	-4.963E+00	-9.902E+00	-6.449E+02	1.051E+03	1.724E+02	2.726E+01	-4.963E+00	-9.902E+00	-6.449E+02	1.123E+03	2.282E+02
Y	7	11	1	1	7	1	7	11	1	1	1	11
Y MAXIMUM	8.334E+00	-2.038E+01	1.097E+01	7.148E+02	3.662E+02	-1.910E+02	8.334E+00	-2.038E+01	1.097E+01	7.148E+02	5.115E+02	5.128E+02
Z	4	1	1	1	1	1	4	1	1	1	1	1
Z MAXIMUM	-1.678E+01	-2.292E+01	-6.486E+01	-4.225E+03	-1.988E+03	1.129E+03	-1.678E+01	-2.292E+01	-6.486E+01	-4.225E+03	-3.023E+03	1.495E+03
GRAND TOTAL	3.743E+01	3.331E+01	6.936E+01	4.343E+03	2.485E+03	1.198E+03	3.743E+01	3.331E+01	6.936E+01	4.343E+03	4.413E+03	1.628E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (13)

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (13)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		4	1	7	1	4	1	4	1	7	1	4
X MAXIMUM	2.730E+01	2.209E+00	-6.512E+00	-6.449E+02	1.123E+03	2.282E+02	2.730E+01	2.209E+00	-6.512E+00	-6.449E+02	1.129E+03	1.487E+02
Y		7	11	7	1	11		7	11	7	1	11
Y MAXIMUM	8.372E+00	1.696E+01	-8.403E+00	7.148E+02	5.115E+02	5.128E+02	8.372E+00	1.696E+01	-8.403E+00	7.148E+02	2.719E+02	-1.648E+02
Z		4	1	1	1	1		4	1	1	1	1
Z MAXIMUM	-1.681E+01	1.447E+01	3.933E+01	-4.225E+03	-3.023E+03	1.495E+03	-1.681E+01	1.447E+01	3.933E+01	-4.225E+03	-1.607E+03	9.740E+02
GRAND TOTAL	3.755E+01	2.386E+01	4.334E+01	4.343E+03	3.413E+03	1.628E+03	3.755E+01	2.386E+01	4.334E+01	4.343E+03	2.144E+03	1.038E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (14)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		4	1	1	1	4		4	1	1	4	7
X MAXIMUM	2.732E+01	2.377E+00	1.375E+01	-6.449E+02	1.129E+03	1.487E+02	2.732E+01	2.377E+00	1.375E+01	-6.449E+02	6.883E+02	1.024E+02
Y		7	11	1	1	1		7	11	1	1	11
Y MAXIMUM	8.392E+00	9.756E+00	-1.524E+01	7.148E+02	2.719E+02	-1.648E+02	8.392E+00	9.756E+00	-1.524E+01	7.148E+02	-6.279E+02	-6.738E+02
Z		4	1	1	1	1		4	1	1	1	7
Z MAXIMUM	-1.683E+01	1.557E+01	9.008E+01	-4.225E+03	-1.607E+03	9.740E+02	-1.683E+01	1.557E+01	9.008E+01	-4.225E+03	3.711E+03	1.584E+02
GRAND TOTAL	3.761E+01	1.923E+01	9.375E+01	4.343E+03	2.144E+03	1.038E+03	3.761E+01	1.923E+01	9.375E+01	4.343E+03	3.974E+03	8.063E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (15)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		1	6	13	1	1		1	6	13	1	1
X MAXIMUM	7.661E+00	3.012E+00	5.668E+00	-2.030E+02	3.511E+02	2.063E+02	7.661E+00	3.012E+00	5.668E+00	-2.030E+02	4.927E+02	1.430E+02
Y		11	6	1	1	6		11	6	1	1	6
Y MAXIMUM	8.535E+00	1.767E+01	-4.892E+00	2.249E+02	-3.891E+02	9.284E+02	8.535E+00	1.767E+01	-4.892E+00	2.249E+02	-5.460E+02	3.617E+02
Z		1	1	1	1	1		1	1	1	1	1
Z MAXIMUM	5.018E+01	1.292E+01	2.892E+01	-1.329E+03	2.300E+03	1.351E+03	5.018E+01	1.292E+01	2.892E+01	-1.329E+03	3.227E+03	9.368E+02
GRAND TOTAL	5.376E+01	2.267E+01	3.160E+01	1.378E+03	2.377E+03	1.687E+03	5.376E+01	2.267E+01	3.160E+01	1.378E+03	3.316E+03	1.038E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (16)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X		1	13	6	1	1		1	13	6	1	1
X MAXIMUM	7.661E+00	5.668E+00	-3.012E+00	-2.030E+02	1.430E+02	-4.927E+02	8.767E+00	4.838E+00	-3.012E+00	-1.333E+02	2.065E+02	-4.977E+02
Y		11	6	1	1	6		11	6	1	1	6
Y MAXIMUM	8.535E+00	-4.892E+00	-1.767E+01	2.249E+02	3.617E+02	5.460E+02	9.720E+00	3.400E+00	-1.767E+01	2.923E+02	2.374E+02	5.516E+02
Z		1	1	1	1	1		1	1	1	1	1
Z MAXIMUM	5.018E+01	2.892E+01	-1.292E+01	-1.329E+03	9.368E+02	-3.227E+03	5.743E+01	7.482E+00	-1.292E+01	-8.734E+02	1.352E+03	-3.260E+03
GRAND TOTAL	5.376E+01	3.160E+01	2.267E+01	1.378E+03	1.038E+03	3.316E+03	6.131E+01	1.143E+01	2.267E+01	9.453E+02	1.417E+03	3.350E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (16)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		1	4	6	6	1
X MAXIMUM	8.536E+00	-3.756E+00	-3.012E+00	6.050E+01	2.384E+02	-4.966E+02
Y		1	6	6	6	1
Y MAXIMUM	-9.460E+00	3.021E+00	-1.767E+01	3.549E+02	-2.642E+02	5.504E+02
Z		1	1	1	1	1
Z MAXIMUM	5.591E+01	-1.509E+01	-1.292E+01	-2.930E+02	1.562E+03	-3.253E+03
GRAND TOTAL	5.968E+01	1.811E+01	2.267E+01	4.738E+02	1.611E+03	3.344E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (17)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X		1	6	4	6	1		1	6	4	6	1
X MAXIMUM	8.538E+00	3.012E+00	-3.755E+00	6.049E+01	4.966E+02	2.384E+02	8.538E+00	3.012E+00	-3.755E+00	6.049E+01	4.491E+02	1.975E+02
Y		1	6	6	6	1		1	6	6	6	1
Y MAXIMUM	-9.463E+00	1.767E+01	3.023E+00	3.548E+02	-5.504E+02	-2.642E+02	-9.463E+00	1.767E+01	3.023E+00	3.548E+02	-4.978E+02	-2.886E+02
Z		1	1	1	1	1		1	1	1	1	1
Z MAXIMUM	5.593E+01	1.292E+01	-1.504E+01	-2.946E+02	3.253E+03	1.561E+03	5.593E+01	1.292E+01	-1.504E+01	-2.946E+02	2.942E+03	1.294E+03
GRAND TOTAL	5.968E+01	3.160E+01	2.267E+01	1.378E+03	1.038E+03	3.316E+03	6.131E+01	1.143E+01	2.267E+01	9.453E+02	1.417E+03	3.350E+03

2 MAXIMUM 5.543E+01 1.292E+01-1.504E+01-2.946E+02 3.253E+03 1.561E+03 5.543E+01 1.292E+01-1.504E+01-2.946E+02 2.946E+03 1.292E+03
 GRAND TOTAL 5.969E+01 2.267E+01 1.805E+01 4.748E+02 3.344E+03 1.611E+03 5.969E+01 2.267E+01 1.805E+01 4.748E+02 3.032E+03 1.371E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (18)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	1	1	6	1	1	1	1	6	1	1
X MAXIMUM	1.020E+01	2.588E+00	-3.203E+00	6.049E+01	4.491E+02	1.975E+02	1.020E+01	2.588E+00	-3.203E+00	6.049E+01	3.338E+02	1.043E+02
Y	1	6	1	1	6	1	1	6	1	6	1	6
Y MAXIMUM	-1.130E+01	6.623E+00	3.549E+00	3.548E+02	-4.978E+02	-2.886E+02	-1.130E+01	6.623E+00	3.549E+00	3.548E+02	-3.700E+02	-5.270E+02
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	6.679E+01	1.695E+01	-2.098E+01	-2.946E+02	2.942E+03	1.294E+03	6.679E+01	1.695E+01	-2.098E+01	-2.946E+02	2.187E+03	6.835E+02
GRAND TOTAL	6.928E+01	1.949E+01	2.251E+01	4.748E+02	3.032E+03	1.371E+03	6.928E+01	1.949E+01	2.251E+01	4.748E+02	2.281E+03	8.857E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (19)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	1	1	13	1	6	1	1	1	13	6	4	4
X MAXIMUM	1.328E+01	3.567E+00	-7.840E+00	6.049E+01	3.338E+02	1.043E+02	1.328E+01	3.567E+00	-7.840E+00	6.049E+01	-2.869E+02	-5.026E+01
Y	1	6	1	1	6	1	1	6	1	6	1	6
Y MAXIMUM	-1.472E+01	-2.064E+01	4.693E+00	3.548E+02	-3.700E+02	-5.270E+02	-1.472E+01	-2.064E+01	4.693E+00	3.548E+02	-2.785E+02	-1.245E+02
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	8.701E+01	2.336E+01	-2.774E+01	-2.946E+02	2.187E+03	6.835E+02	8.701E+01	2.336E+01	-2.774E+01	-2.946E+02	1.646E+03	2.279E+02
GRAND TOTAL	9.030E+01	3.228E+01	3.068E+01	4.748E+02	2.281E+03	8.857E+02	9.030E+01	3.228E+01	3.068E+01	4.748E+02	1.742E+03	2.852E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (20)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	1	1	13	1	6	4	4	4	1	4	6	4
X MAXIMUM	1.328E+01	-7.840E+00	-3.567E+00	6.049E+01	-5.026E+01	2.869E+02	-7.577E+00	-1.239E+01	-3.567E+00	-6.857E+01	-4.659E+01	2.732E+02
Y	1	6	1	1	6	1	1	6	1	6	1	6
Y MAXIMUM	-1.472E+01	4.693E+00	2.064E+01	3.548E+02	-1.245E+02	2.785E+02	-7.091E+00	1.373E+01	2.064E+01	1.900E+02	-2.733E+02	2.441E+02
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	8.701E+01	-2.774E+01	-2.336E+01	-2.946E+02	2.279E+02	-1.646E+03	4.191E+01	-8.114E+01	-2.336E+01	-7.797E+01	2.952E+02	-1.443E+03
GRAND TOTAL	9.030E+01	3.068E+01	3.228E+01	4.748E+02	2.852E+02	1.742E+03	4.509E+01	8.403E+01	3.228E+01	2.283E+02	4.217E+02	1.540E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (20)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	13	1	1	1	4	6
X MAXIMUM	-7.840E+00	-1.328E+01	-3.567E+00	-6.111E+01	-4.466E+01	2.396E+02
Y	1	6	1	1	11	6
Y MAXIMUM	4.693E+00	1.472E+01	2.064E+01	7.658E+01	-2.619E+02	1.911E+02
Z	1	1	1	1	1	1
Z MAXIMUM	-2.774E+01	-8.701E+01	-2.336E+01	1.228E+02	1.895E+02	-1.130E+03
GRAND TOTAL	3.068E+01	9.030E+01	3.228E+01	1.778E+02	3.362E+02	1.223E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (21)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	13	1	1	1	4	4	6	13	1	4	13	13
X MAXIMUM	-7.840E+00	3.567E+00	-1.328E+01	-6.111E+01	-2.396E+02	-4.466E+01	-7.840E+00	3.567E+00	-1.328E+01	-6.111E+01	-9.728E+01	-3.787E+01
Y	1	6	1	1	11	1	6	1	6	1	11	18
Y MAXIMUM	4.693E+00	-2.064E+01	1.472E+01	7.658E+01	-1.911E+02	-2.619E+02	4.693E+00	-2.064E+01	1.472E+01	7.658E+01	-9.714E+01	-7.487E+01
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	-2.774E+01	2.336E+01	-8.701E+01	1.228E+02	1.130E+03	1.895E+02	-2.774E+01	2.336E+01	-8.701E+01	1.228E+02	9.240E+01	-1.385E+02
GRAND TOTAL	3.068E+01	3.228E+01	9.030E+01	1.778E+02	1.223E+03	3.362E+02	3.068E+01	3.228E+01	9.030E+01	1.778E+02	2.567E+02	1.825E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (22)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	13	6	1	4	4	13	13	13	6	4	1	6
X MAXIMUM	-1.143E+01	-6.642E+00	1.585E+01	-6.111E+01	-9.728E+01	-3.787E+01	-1.143E+01	-6.642E+00	1.585E+01	-6.111E+01	-3.987E+02	1.709E+02
Y	6	6	1	1	11	11	18	6	6	1	1	6
Y MAXIMUM	-7.425E+00	-3.896E+01	1.704E+01	7.658E+01	-9.714E+01	-7.487E+01	-7.425E+00	-3.896E+01	1.704E+01	7.658E+01	4.419E+02	1.003E+03

Y MAXIMUM -7.425E+00-3.896E+01 1.704E+01 7.658E+01-9.714E+01-7.487E+01-7.425E+00-3.896E+01 1.704E+01 7.658E+01 4.419E+02 1.003E+03

Z MAXIMUM -2.734E+01 2.605E+01-1.007E+02 1.228E+02 9.240E+01-1.385E+02-2.734E+01 2.605E+01-1.007E+02 1.228E+02-2.612E+03-7.904E+02
GRAND TOTAL 3.387E+01 4.878E+01 1.061E+02 1.778E+02 2.567E+02 1.825E+02 3.387E+01 4.878E+01 1.061E+02 1.778E+02 2.711E+03 1.319E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (24)

	PX(I)	VY(J)	VZ(J)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	13	6	4	4	1	1	13	6	4	1	1	6
X MAXIMUM	-1.143E+01	6.642E+00	-1.585E+01	-6.111E+01	3.987E+02	-1.709E+02	-9.129E+00	7.035E+00	-1.585E+01	3.155E+02	3.176E+02	-1.937E+02
Y	6	6	1	11	6	6	6	6	1	1	1	6
Y MAXIMUM	-7.425E+00	3.896E+01	-1.704E+01	7.658E+01	-4.419E+02	-1.003E+03	2.230E+01	3.280E+01	-1.704E+01	-3.496E+02	-3.520E+02	-1.136E+03
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	-2.734E+01	-2.605E+01	1.007E+02	1.228E+02	2.612E+03	7.904E+02	-3.776E+01	-3.376E+00	1.007E+02	2.066E+03	2.080E+03	8.372E+02
GRAND TOTAL	3.387E+01	4.878E+01	1.061E+02	1.778E+02	2.711E+03	1.319E+03	4.744E+01	3.573E+01	1.061E+02	2.154E+03	2.159E+03	1.457E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (23)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	6	13	4	1	1	6
X MAXIMUM	6.642E+00	1.143E+01	-1.585E+01	4.679E+02	5.044E+01	-2.065E+02
Y	6	6	1	1	11	6
Y MAXIMUM	3.896E+01	7.425E+00	-1.704E+01	-5.186E+02	-1.011E+02	-1.211E+03
Z	1	1	1	1	1	1
Z MAXIMUM	-2.605E+01	2.734E+01	1.007E+02	3.065E+03	3.304E+02	7.846E+02
GRAND TOTAL	4.878E+01	3.387E+01	1.061E+02	3.187E+03	3.593E+02	1.488E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (24)

	PX(I)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	6	4	13	1	1	6	6	4	13	1	1	6
X MAXIMUM	6.642E+00	1.585E+01	1.143E+01	4.679E+02	2.065E+02	5.044E+01	6.642E+00	1.585E+01	1.143E+01	4.679E+02	2.262E+02	2.894E+02
Y	6	6	1	6	1	11	6	6	1	6	1	6
Y MAXIMUM	3.896E+01	1.704E+01	7.425E+00	-5.186E+02	1.211E+03	-1.011E+02	3.896E+01	1.704E+01	7.425E+00	-5.186E+02	1.327E+03	-3.207E+02
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	-2.605E+01	-1.007E+02	2.734E+01	3.065E+03	-7.846E+02	3.304E+02	-2.605E+01	-1.007E+02	2.734E+01	3.065E+03	-3.597E+02	1.895E+03
GRAND TOTAL	4.878E+01	1.061E+02	3.387E+01	3.187E+03	1.488E+03	3.593E+02	4.878E+01	1.061E+02	3.387E+01	3.187E+03	1.433E+03	1.993E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (25)

	PX(I)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	6	4	13	1	1	6	6	4	13	1	1	6
X MAXIMUM	6.642E+00	1.592E+01	1.179E+01	4.679E+02	2.262E+02	2.894E+02	6.642E+00	1.592E+01	1.179E+01	4.679E+02	3.356E+02	5.351E+02
Y	6	6	1	6	1	11	6	6	1	6	1	6
Y MAXIMUM	3.896E+01	1.707E+01	7.706E+00	-5.186E+02	1.327E+03	-3.207E+02	3.896E+01	1.707E+01	7.706E+00	-5.186E+02	1.450E+03	-5.931E+02
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	-2.605E+01	-1.009E+02	2.734E+01	3.065E+03	-3.597E+02	1.895E+03	-2.605E+01	-1.009E+02	2.734E+01	3.065E+03	-1.611E+02	3.505E+03
GRAND TOTAL	4.878E+01	1.063E+02	3.430E+01	3.187E+03	1.433E+03	1.993E+03	4.878E+01	1.063E+02	3.430E+01	3.187E+03	1.579E+03	3.689E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (26)

	PX(I)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	4	6	4	1	1	4	4	6	4	1	1	4
X MAXIMUM	2.359E+01	-3.675E+00	-1.990E+01	-3.556E+02	7.343E+02	-1.907E+02	2.359E+01	-3.675E+00	-1.990E+01	-3.556E+02	7.345E+02	-2.326E+01
Y	7	6	1	1	1	7	6	6	1	1	1	6
Y MAXIMUM	1.118E+01	-2.156E+01	-1.198E+01	3.940E+02	-4.473E+02	-1.118E+03	1.118E+01	-2.156E+01	-1.198E+01	3.940E+02	-8.140E+02	-8.367E+01
Z	1	1	1	1	1	1	1	1	1	1	1	1
Z MAXIMUM	-2.250E+01	3.990E+00	7.083E+01	-2.329E+03	1.411E+03	1.591E+02	-2.250E+01	3.990E+00	7.083E+01	-2.329E+03	4.811E+03	-1.524E+02
GRAND TOTAL	4.310E+01	2.587E+01	7.841E+01	2.413E+03	1.914E+03	1.323E+03	4.310E+01	2.587E+01	7.841E+01	2.413E+03	4.943E+03	1.888E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (27)

	PX(I)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	4	6	4	1	1	4	4	6	4	1	1	4

X MAXIMUM 2.360E+01-4.136E+00-2.295E+01-3.556E+02 7.345E+02-2.326E+01 2.360E+01-4.136E+00-2.295E+01-3.556E+02-1.322E+03 1.843E+02
 Y MAXIMUM 1.119E+01-2.426E+01-1.322E+01 3.940E+02-8.140E+02-8.367E+01 1.119E+01-2.426E+01-1.322E+01 3.940E+02-1.449E+03 1.081E+03
 Z MAXIMUM -2.250E+01 4.619E+00 7.813E+01-2.329E+03 4.811E+03-1.524E+02-2.250E+01 4.619E+00 7.813E+01-2.329E+03 8.561E+03-3.578E+02
 GRAND TOTAL 4.312E+01 3.246E+01 8.771E+01 2.413E+03 4.943E+03 1.888E+02 4.312E+01 3.246E+01 8.771E+01 2.413E+03 8.982E+03 1.495E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (28)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	17	17	5	17	5	17	17	17	5	17	5
X MAXIMUM	-9.648E+00	4.469E+00-1.014E+01-1.274E+02	2.513E+02	1.989E+02-9.648E+00	4.469E+00-1.014E+01-1.274E+02	-1.746E+02	6.034E+01					
Y	5	5	2	5	2	5	5	5	2	5	2	5
Y MAXIMUM	-6.337E+00	2.041E+01 3.927E+00-7.881E+02-2.851E+02	1.230E+03-6.337E+00	2.041E+01 3.927E+00-7.881E+02-1.202E+02	3.732E+02							
Z	2	3	2	2	2	3	2	2	2	2	2	2
Z MAXIMUM	-3.880E+01-1.282E+01-2.534E+01	9.834E+01 1.839E+03 7.879E+02-3.880E+01-1.282E+01-2.534E+01	9.834E+01 7.752E+02 2.539E+02									
GRAND TOTAL	4.889E+01	3.735E+01 3.887E+01 8.143E+02 2.411E+03 2.199E+03	4.889E+01 3.735E+01 3.887E+01 8.143E+02 9.660E+02 6.642E+02									

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (29)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	5	12	5	12	5	17	5	12	5	17	5
X MAXIMUM	-1.119E+01 3.777E+00 8.529E+00	1.809E+01-2.254E+02 1.993E+02-1.119E+01 3.777E+00 8.529E+00	1.809E+01-9.550E+01 7.814E+01									
Y	14	5	12	5	5	14	5	5	12	5	5	5
Y MAXIMUM	3.978E+00 2.337E+01-3.974E+00	1.119E+02-2.093E+02 1.233E+03 3.978E+00 2.337E+01-3.974E+00	1.119E+02-8.530E+01 4.834E+02									
Z	8	3	2	2	2	3	8	3	2	2	2	3
Z MAXIMUM	-8.643E+00-3.822E+00 1.195E+01-1.163E+01-7.740E+02-1.778E+02-8.643E+00-3.822E+00	1.195E+01-1.163E+01-3.906E+02-5.517E+01										
GRAND TOTAL	1.745E+01	2.453E+01 1.886E+01 1.151E+02 9.579E+02 1.276E+03 1.745E+01 2.453E+01 1.886E+01 1.151E+02 5.100E+02 5.009E+02										

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (30)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	17	12	5	5	5	17	17	12	5	5	5	17
X MAXIMUM	-1.119E+01 8.529E+00-3.777E+00	1.809E+01 7.814E+01 9.550E+01-1.163E+01 5.861E+00-3.777E+00	4.536E+01 5.873E+01 9.746E+01									
Y	14	12	5	5	5	14	5	5	5	5	5	5
Y MAXIMUM	3.978E+00-3.974E+00-2.337E+01	1.119E+02 4.834E+02 8.530E+01 4.946E+00 4.163E+00-2.337E+01	2.806E+02 3.633E+02 7.810E+01									
Z	8	3	2	3	3	8	8	3	2	3	3	2
Z MAXIMUM	-8.643E+00 1.195E+01 3.822E+00-1.163E+01-5.517E+01	3.906E+02-9.496E+00 1.195E+01 3.822E+00-2.128E+01-4.377E+01	3.692E+02									
GRAND TOTAL	1.745E+01	1.886E+01 2.453E+01 1.151E+02 5.009E+02 5.100E+02 1.996E+01 1.619E+01 2.453E+01 2.879E+02 3.802E+02 4.920E+02										

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (30)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	17	5	5	5	17
X MAXIMUM	-1.029E+01 5.543E+00-3.777E+00	6.310E+01 3.035E+01 9.144E+01				
Y	14	5	5	5	5	5
Y MAXIMUM	5.158E+00 3.825E+00-2.337E+01	3.903E+02 1.678E+02 7.094E+01				
Z	8	2	3	3	3	2
Z MAXIMUM	-8.900E+00 1.013E+01 3.822E+00-3.511E+01-2.568E+01	3.494E+02				
GRAND TOTAL	2.125E+01	1.438E+01 2.453E+01 4.025E+02 2.052E+02 4.706E+02				

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (31)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	5	17	5	17	5	17	5	17	5	12	5
X MAXIMUM	-1.030E+01 3.777E+00 5.532E+00	6.307E+01-9.144E+01 3.042E+01-1.030E+01 3.777E+00 5.532E+00	6.307E+01 1.162E+02-4.777E+01									
Y	14	5	5	5	5	14	5	5	5	5	12	5
Y MAXIMUM	5.159E+00 2.337E+01 3.827E+00	3.901E+02-7.094E+01 1.882E+02 5.159E+00 2.337E+01 3.827E+00	3.901E+02-5.412E+01-2.955E+02									
Z	8	3	2	2	2	8	8	3	2	2	2	3
Z MAXIMUM	-8.903E+00-3.822E+00 1.014E+01-3.509E+01-3.494E+02-2.572E+01-8.903E+00-3.822E+00	1.014E+01-3.509E+01-1.195E+02 5.140E+01										
GRAND TOTAL	2.125E+01	2.453E+01 1.438E+01 4.023E+02 4.706E+02 2.056E+02 2.125E+01 2.453E+01 1.438E+01 4.023E+02 2.551E+02 3.555E+02										

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (32)

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (32)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	5	17	5	12	5	17	5	17	5	17	5
X MAXIMUM	-7.951E+00	1.886E+00	3.235E+00	6.307E+01	1.162E+02	-4.777E+01	-7.951E+00	1.886E+00	3.235E+00	6.307E+01	1.395E+02	-1.157E+02
Y	14	5	5	5	12	5	14	5	5	5	5	5
Y MAXIMUM	3.885E+00	1.167E+01	2.560E+00	3.901E+02	-5.412E+01	-2.955E+02	3.885E+00	1.167E+01	2.560E+00	3.901E+02	1.004E+02	-7.156E+02
Z	2	3	2	3	2	3	2	3	2	3	2	3
Z MAXIMUM	9.434E+00	-1.589E+00	1.079E+01	-3.509E+01	-1.395E+02	5.340E+01	9.434E+00	-1.589E+00	1.079E+01	-3.509E+01	2.490E+02	1.106E+02
GRAND TOTAL	1.759E+01	1.261E+01	1.428E+01	4.023E+02	2.551E+02	3.355E+02	1.759E+01	1.261E+01	1.428E+01	4.023E+02	3.543E+02	7.469E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (33)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	5	12	5	17	5	17	5	12	5	12	12
X MAXIMUM	-2.422E+00	-4.314E+00	-8.399E+00	6.307E+01	1.345E+02	-1.157E+02	-2.422E+00	-4.314E+00	-8.399E+00	6.307E+01	-9.601E+01	-3.210E+01
Y	2	5	12	5	5	5	2	5	12	5	2	5
Y MAXIMUM	-2.429E+00	-2.669E+01	3.913E+00	3.901E+02	1.004E+02	-7.156E+02	-2.429E+00	-2.669E+01	3.913E+00	3.901E+02	-7.096E+01	-1.952E+02
Z	2	3	2	3	2	3	2	3	2	3	2	2
Z MAXIMUM	1.567E+01	4.344E+00	1.071E+01	-3.509E+01	2.490E+02	1.106E+02	1.567E+01	4.344E+00	1.071E+01	-3.509E+01	4.578E+02	8.376E+01
GRAND TOTAL	1.937E+01	2.871E+01	2.039E+01	4.023E+02	3.543E+02	7.469E+02	1.937E+01	2.871E+01	2.039E+01	4.023E+02	5.844E+02	2.377E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (34)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	17	12	12	5	5	12	17	12	12	5	5	12
X MAXIMUM	-2.422E+00	-8.399E+00	4.314E+00	6.307E+01	-3.210E+01	9.601E+01	-7.251E+00	-5.420E+00	4.314E+00	2.797E+01	-5.319E+01	1.218E+02
Y	2	12	12	5	5	5	2	12	12	5	5	2
Y MAXIMUM	-2.429E+00	3.913E+00	2.669E+01	3.901E+02	-1.952E+02	7.096E+01	3.009E+00	2.525E+00	2.669E+01	1.730E+02	-3.290E+02	7.303E+01
Z	2	2	3	3	2	2	2	2	2	3	2	2
Z MAXIMUM	1.567E+01	1.071E+01	-4.344E+00	-3.509E+01	8.376E+01	-4.578E+02	1.865E+01	-3.513E+00	-4.344E+00	5.551E+01	7.645E+01	-4.712E+02
GRAND TOTAL	1.937E+01	2.039E+01	2.871E+01	4.023E+02	2.377E+02	5.844E+02	2.646E+01	9.540E+00	2.871E+01	1.935E+02	3.609E+02	6.134E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (34)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	12	17	5	12	5	12
X MAXIMUM	-8.399E+00	2.422E+00	4.314E+00	-4.146E+01	-4.366E+01	1.305E+02
Y	12	2	5	5	5	2
Y MAXIMUM	3.913E+00	2.429E+00	2.669E+01	-7.515E+01	-2.701E+02	6.749E+01
Z	2	2	3	2	2	2
Z MAXIMUM	1.071E+01	-1.567E+01	-4.344E+00	9.726E+01	2.435E+01	-4.354E+02
GRAND TOTAL	2.039E+01	1.937E+01	2.871E+01	1.532E+02	2.833E+02	5.775E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (35)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	12	5	17	12	12	5	12	5	17	12	12	12
X MAXIMUM	-8.399E+00	-4.314E+00	2.422E+00	-4.146E+01	-1.305E+02	-4.366E+01	-8.399E+00	-4.314E+00	2.422E+00	-4.146E+01	-1.202E+02	-4.422E+01
Y	12	5	2	5	2	5	12	5	2	5	12	5
Y MAXIMUM	3.913E+00	-2.669E+01	2.429E+00	-7.515E+01	-6.749E+01	-2.701E+02	3.913E+00	-2.669E+01	2.429E+00	-7.515E+01	5.599E+01	1.046E+02
Z	2	3	2	2	2	2	2	3	2	2	2	2
Z MAXIMUM	1.071E+01	4.344E+00	-1.567E+01	9.726E+01	4.354E+02	2.435E+01	1.071E+01	4.344E+00	-1.567E+01	9.726E+01	2.154E+02	6.648E+01
GRAND TOTAL	2.039E+01	2.871E+01	1.937E+01	1.532E+02	5.175E+02	2.833E+02	2.039E+01	2.871E+01	1.937E+01	1.532E+02	3.315E+02	1.966E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (36)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	5	12	12	12	5	17	5	12	12	12	5
X MAXIMUM	-1.391E+01	-7.680E+00	6.248E+00	-4.146E+01	-1.202E+02	-4.422E+01	-1.391E+01	-7.680E+00	6.248E+00	-4.146E+01	3.614E+01	2.091E+02
Y	5	5	2	5	12	5	5	5	2	5	5	5
Y MAXIMUM	-9.135E+00	-4.751E+01	3.005E+00	-7.515E+01	5.599E+01	1.046E+02	-9.135E+00	-4.751E+01	3.005E+00	-7.515E+01	5.853E+01	1.293E
Z	2	3	2	2	2	2	2	3	2	2	2	2
Z MAXIMUM	1.077E+01	7.284E+00	-1.938E+01	9.726E+01	2.154E+02	6.648E+01	1.077E+01	7.284E+00	-1.938E+01	9.726E+01	-2.696E+02	-2.277E+02

TOTAL 2.821E+01 5.026E+01 2.661E+01 1.532E+02 3.315E+02 1.966E+02 2.821E+01 5.026E+01 2.661E+01 1.532E+02 3.569E+02 1.392

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (37)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	17	5	12	12	12	12	17	5	12	12	12	5
X MAXIMUM	-1.391E+01	7.680E+00	-6.248E+00	-4.146E+01	-3.614E+01	-2.091E+02	-1.164E+01	8.037E+00	-6.248E+00	-6.311E+01	-1.612E+01	-2.355E+02
Y	5	5	2	5	5	5	5	5	2	5	3	5
Y MAXIMUM	-9.135E+00	4.751E+01	-3.005E+00	-7.515E+01	-5.853E+01	-1.293E+03	2.714E+01	4.005E+01	-3.005E+00	-9.589E+01	3.190E+01	-1.457E+03
Z	2	3	2	2	2	2	3	2	3	2	2	3
Z MAXIMUM	1.077E+01	-7.284E+00	1.938E+01	9.726E+01	2.696E+02	2.277E+02	1.042E+01	-7.328E+00	1.938E+01	2.850E+02	1.836E+02	2.549E+02
GRAND TOTAL	2.821E+01	5.026E+01	2.661E+01	1.532E+02	3.569E+02	1.392E+03	3.596E+01	4.519E+01	2.661E+01	3.818E+02	2.520E+02	1.558E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (37)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	5	17	12	12	14	5
X MAXIMUM	7.680E+00	1.391E+01	-6.248E+00	-6.426E+01	1.693E+01	-2.503E+02
Y	5	5	2	5	5	5
Y MAXIMUM	4.751E+01	9.135E+00	-3.005E+00	-6.319E+01	7.048E+01	-1.548E+03
Z	3	2	2	2	2	3
Z MAXIMUM	-7.284E+00	-1.077E+01	1.938E+01	3.568E+02	-1.003E+01	2.743E+02
GRAND TOTAL	5.026E+01	2.821E+01	2.661E+01	4.739E+02	9.469E+01	1.641E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (38)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	5	12	17	12	5	14	5	12	17	12	5	12
X MAXIMUM	7.680E+00	6.248E+00	1.391E+01	-6.426E+01	2.503E+02	1.693E+01	7.680E+00	6.248E+00	1.391E+01	-6.426E+01	2.732E+02	-8.375E+01
Y	5	2	5	5	5	5	5	2	5	5	5	14
Y MAXIMUM	4.751E+01	3.005E+00	9.135E+00	-6.319E+01	1.548E+03	7.048E+01	4.751E+01	3.005E+00	9.135E+00	-6.319E+01	1.690E+03	-6.082E+01
Z	3	2	2	2	2	3	3	2	2	2	3	2
Z MAXIMUM	-7.284E+00	-1.938E+01	-1.077E+01	3.568E+02	-2.743E+02	-1.003E+01	-7.284E+00	-1.938E+01	-1.077E+01	3.568E+02	-3.222E+02	2.912E+02
GRAND TOTAL	5.026E+01	2.661E+01	2.821E+01	4.739E+02	1.641E+03	9.469E+01	5.026E+01	2.661E+01	2.821E+01	4.739E+02	1.793E+03	4.212E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (39)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	5	12	17	12	5	12	5	12	17	12	17	12
X MAXIMUM	7.680E+00	6.416E+00	1.454E+01	-6.426E+01	2.732E+02	-8.375E+01	7.680E+00	6.416E+00	1.454E+01	-6.426E+01	4.022E+02	-1.861E+02
Y	5	2	5	5	5	14	5	2	5	5	5	2
Y MAXIMUM	4.751E+01	3.014E+00	9.452E+00	-6.319E+01	1.690E+03	-6.082E+01	4.751E+01	3.014E+00	9.452E+00	-6.319E+01	1.841E+03	-9.325E+01
Z	3	2	2	2	2	3	3	2	2	2	3	2
Z MAXIMUM	-7.284E+00	-1.945E+01	-1.079E+01	3.568E+02	-3.222E+02	2.912E+02	-7.284E+00	-1.945E+01	-1.079E+01	3.568E+02	-3.721E+02	6.016E+02
GRAND TOTAL	5.026E+01	2.680E+01	2.898E+01	4.739E+02	1.793E+03	4.212E+02	5.026E+01	2.680E+01	2.898E+01	4.739E+02	2.088E+03	8.440E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (40)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	3	12	12	3	12	5	17	3	12	3	5
X MAXIMUM	-4.081E+00	-1.791E+00	-6.221E+00	-1.998E+01	2.858E+02	-9.338E+01	-4.081E+00	-1.791E+00	-6.221E+00	-1.998E+01	2.604E+02	-8.933E+01
Y	2	5	2	3	2	5	5	2	5	2	3	5
Y MAXIMUM	4.441E+00	-6.140E+00	4.431E+00	-6.074E+01	-2.401E+02	-5.777E+02	4.441E+00	-6.140E+00	4.431E+00	-6.074E+01	-2.220E+02	-5.526E+02
Z	2	2	2	2	2	2	2	2	2	2	2	2
Z MAXIMUM	-2.865E+01	1.090E+01	-2.859E+01	1.127E+02	1.549E+03	2.560E+02	-2.865E+01	1.090E+01	-2.859E+01	1.127E+02	1.433E+03	2.115E+02
GRAND TOTAL	3.604E+01	2.148E+01	3.600E+01	2.131E+02	1.877E+03	7.149E+02	3.604E+01	2.148E+01	3.600E+01	2.131E+02	1.732E+03	6.495E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (41)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	3	12	12	3	12	5	17	3	12	3	5
X MAXIMUM	-4.081E+00	-1.791E+00	-6.221E+00	-1.998E+01	2.604E+02	-8.933E+01	-4.081E+00	-1.791E+00	-6.221E+00	-1.998E+01	2.358E+02	-8.540E+01
Y	2	5	2	3	2	5	5	2	5	2	3	5

X MAXIMUM -4.081E+00-1.791E+00-6.221E+00-1.998E+01 2.604E+02-8.433E+01-4.081E+00-1.791E+00-6.221E+00-1.998E+01 2.604E+02-8.433E+01
Y 2 5 2 3 2 5 2 5 2 3 2 5

Y MAXIMUM 4.441E+00-6.140E+00 4.431E+00-6.074E+01-2.220E+02-5.526E+02 4.441E+00-6.140E+00 4.431E+00-6.074E+01-2.045E+02-5.283E+02
Z 2 2 2 2 2 2 2 2 2 2 2 2
Z MAXIMUM -2.865E+01 1.090E+01-2.859E+01 1.127E+02 1.433E+03 2.115E+02-2.865E+01 1.090E+01-2.859E+01 1.127E+02 1.319E+03 1.684E+02
GRAND TOTAL 3.604E+01 2.148E+01 3.600E+01 2.131E+02 1.732E+03 6.495E+02 3.604E+01 2.148E+01 3.600E+01 2.131E+02 1.590E+03 5.914E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (42)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	3	12	3	12	5	17	3	12	3	12	17
X MAXIMUM	-4.081E+00	-1.791E+00	-6.221E+00	-1.998E+01	2.358E+02	-8.540E+01	-4.081E+00	-1.791E+00	-6.221E+00	-1.998E+01	-8.747E+01	-8.825E+01
Y	2	5	2	3	2	5	2	5	2	3	14	3
Y MAXIMUM	4.441E+00	-6.140E+00	4.431E+00	-6.074E+01	-2.045E+02	-5.283E+02	4.441E+00	-6.140E+00	4.431E+00	-6.074E+01	-4.858E+01	2.439E+02
Z	2	2	2	2	2	2	2	2	2	2	8	2
Z MAXIMUM	-2.865E+01	1.090E+01	-2.859E+01	1.127E+02	1.319E+03	1.684E+02	-2.865E+01	1.090E+01	-2.859E+01	1.127E+02	-2.522E+02	-3.981E+02
GRAND TOTAL	3.604E+01	2.148E+01	3.600E+01	2.131E+02	1.590E+03	5.914E+02	3.604E+01	2.148E+01	3.600E+01	2.131E+02	3.793E+02	8.634E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (43)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	17	12	3	12	17	17	17	12	3	12	3
X MAXIMUM	-4.037E+00	-3.644E+00	-1.129E+00	-1.998E+01	-8.747E+01	-8.825E+01	-4.037E+00	-3.644E+00	-1.129E+00	-1.998E+01	-1.552E+02	1.417E+02
Y	2	5	2	3	14	3	2	5	2	3	2	3
Y MAXIMUM	4.438E+00	-9.213E+00	2.192E+00	-6.074E+01	-4.858E+01	2.439E+02	4.438E+00	-9.213E+00	2.192E+00	-6.074E+01	1.573E+02	4.308E+02
Z	2	2	2	2	8	2	2	2	2	2	2	2
Z MAXIMUM	-2.864E+01	7.495E+00	-1.414E+01	1.127E+02	-2.522E+02	-3.981E+02	-2.864E+01	7.495E+00	-1.414E+01	1.127E+02	-1.015E+03	-8.477E+02
GRAND TOTAL	3.601E+01	1.728E+01	1.726E+01	2.131E+02	3.793E+02	8.634E+02	3.601E+01	1.728E+01	1.726E+01	2.131E+02	1.263E+03	1.613E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (44)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	17	12	3	12	3	17	17	12	3	17	3
X MAXIMUM	-3.974E+00	3.743E+00	4.876E+00	-1.998E+01	-1.552E+02	1.417E+02	-3.974E+00	3.743E+00	4.876E+00	-1.998E+01	-9.405E+01	3.459E+01
Y	2	3	14	3	2	3	2	3	14	3	2	5
Y MAXIMUM	4.435E+00	8.683E+00	2.716E+00	-6.074E+01	1.573E+02	4.308E+02	4.435E+00	8.683E+00	2.716E+00	-6.074E+01	9.310E+01	1.550E+02
Z	2	2	2	2	2	2	2	2	2	2	2	3
Z MAXIMUM	-2.861E+01	-1.888E+01	1.105E+01	1.127E+02	-1.015E+03	-8.477E+02	-2.861E+01	-1.888E+01	1.105E+01	1.127E+02	-6.007E+02	1.437E+02
GRAND TOTAL	3.596E+01	3.444E+01	1.675E+01	2.131E+02	1.263E+03	1.613E+03	3.596E+01	3.444E+01	1.675E+01	2.131E+02	7.762E+02	3.558E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (45)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	17	12	17	3	3	17	17	12	17	5	3	17
X MAXIMUM	-3.974E+00	4.876E+00	-3.743E+00	-1.998E+01	3.459E+01	9.405E+01	-5.954E+00	5.574E+00	-3.743E+00	1.716E+01	2.950E+01	1.030E+02
Y	2	14	3	3	5	2	14	2	3	5	5	2
Y MAXIMUM	4.435E+00	2.716E+00	-8.683E+00	-6.074E+01	1.550E+02	-9.310E+01	2.984E+00	-4.346E+00	-8.683E+00	1.062E+02	9.047E+01	-8.181E+01
Z	2	2	2	2	3	2	2	2	2	3	3	2
Z MAXIMUM	-2.861E+01	1.105E+01	1.888E+01	1.127E+02	1.437E+02	6.007E+02	-1.242E+01	2.804E+01	1.888E+01	2.727E+01	1.226E+02	5.278E+02
GRAND TOTAL	3.596E+01	1.675E+01	3.444E+01	2.131E+02	3.558E+02	7.762E+02	1.841E+01	3.516E+01	3.444E+01	1.221E+02	2.914E+02	6.991E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (45)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	12	17	17	17	17	17
X MAXIMUM	4.876E+00	3.974E+00	-3.743E+00	-2.684E+01	-1.336E+01	9.618E+01
Y	14	2	3	5	10	5
Y MAXIMUM	2.716E+00	-4.435E+00	-8.683E+00	1.324E+02	3.532E+01	6.624E+01
Z	2	2	2	3	3	2
Z MAXIMUM	1.105E+01	2.861E+01	1.888E+01	9.031E+01	2.962E+01	4.222E+02
GRAND TOTAL	1.675E+01	3.596E+01	3.444E+01	2.314E+02	8.296E+01	5.791E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (46)

	12	17	17	17	17	17	12	17	17	17	12	
X	12	17	17	17	17	17	12	17	17	17	12	
X MAXIMUM	4.876E+00	3.743E+00	3.974E+00	-2.684E+01	-9.618E+01	-1.336E+01	4.876E+00	3.743E+00	3.974E+00	-2.684E+01	1.040E+02	-6.434E+01
Y	14	3	2	5	5	10	14	3	2	5	12	3
Y MAXIMUM	2.716E+00	8.683E+00	-4.435E+00	1.324E+02	-6.624E+01	3.532E+01	2.716E+00	8.683E+00	-4.435E+00	1.324E+02	-4.847E+01	-9.660E+01
Z	2	2	2	3	2	3	2	2	2	3	8	2
Z MAXIMUM	1.105E+01	-1.888E+01	2.861E+01	9.031E+01	-4.222E+02	2.962E+01	1.105E+01	-1.888E+01	2.861E+01	9.031E+01	1.426E+02	2.293E+02
GRAND TOTAL	1.675E+01	3.444E+01	3.596E+01	2.314E+02	5.791E+02	8.296E+01	1.675E+01	3.444E+01	3.596E+01	2.314E+02	2.148E+02	4.277E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (47)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	17	17	17	17	17	12	17	17	17	17	17	3
X MAXIMUM	-3.230E+00	-1.520E+00	2.851E+00	-2.684E+01	1.040E+02	-6.434E+01	-3.230E+00	-1.520E+00	2.851E+00	-2.684E+01	1.290E+02	-8.211E+01
Y	2	3	2	5	12	3	2	3	2	5	2	3
Y MAXIMUM	-5.699E+00	2.550E+00	-4.175E+00	1.324E+02	-4.847E+01	-9.660E+01	-5.699E+00	2.550E+00	-4.175E+00	1.324E+02	-2.454E+02	-2.496E+02
Z	2	2	2	3	2	3	2	2	2	3	2	2
Z MAXIMUM	3.677E+01	-8.534E+00	2.694E+01	9.031E+01	1.426E+02	2.293E+02	3.677E+01	-8.534E+00	2.694E+01	9.031E+01	1.584E+03	7.414E+02
GRAND TOTAL	4.336E+01	1.319E+01	3.318E+01	2.314E+02	2.148E+02	4.277E+02	4.336E+01	1.339E+01	3.318E+01	2.314E+02	1.931E+03	1.178E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (48)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	3	3	12	17	17	12	3	3	3	12	17	12
X MAXIMUM	2.549E+00	-3.699E+00	-7.769E+00	-2.684E+01	1.290E+02	-8.211E+01	2.549E+00	-3.699E+00	-7.769E+00	-2.684E+01	-8.899E+01	-2.263E+01
Y	2	3	12	5	12	3	2	3	12	5	2	2
Y MAXIMUM	-1.237E+01	-1.124E+01	3.619E+00	1.524E+02	-2.454E+02	-2.496E+02	-1.237E+01	-1.124E+01	3.619E+00	1.324E+02	-3.218E+02	-6.179E+01
Z	2	3	2	3	2	3	2	2	3	2	2	2
Z MAXIMUM	7.981E+01	-1.537E+01	2.047E+01	9.031E+01	1.584E+03	7.414E+02	7.981E+01	-1.537E+01	2.047E+01	9.031E+01	2.076E+03	3.986E+02
GRAND TOTAL	9.284E+01	3.426E+01	2.572E+01	2.314E+02	1.931E+03	1.178E+03	9.284E+01	3.426E+01	2.572E+01	2.314E+02	2.450E+03	4.425E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (49)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	3	12	3	17	12	12	12	12	12	3	17	12
X MAXIMUM	2.549E+00	-7.769E+00	3.699E+00	-2.684E+01	-2.263E+01	8.899E+01	-6.337E+00	-4.650E+00	3.699E+00	2.512E+01	2.493E+01	1.121E+02
Y	2	12	3	5	2	2	2	2	3	5	5	2
Y MAXIMUM	-1.237E+01	3.619E+00	1.124E+01	1.524E+02	-6.179E+01	3.218E+02	-1.099E+01	6.503E+00	1.124E+01	8.015E+01	-9.070E+01	3.156E+02
Z	2	2	3	3	2	2	2	2	3	2	2	2
Z MAXIMUM	7.981E+01	2.047E+01	1.537E+01	9.031E+01	3.986E+02	-2.076E+03	7.091E+01	-4.196E+01	1.537E+01	2.243E+02	2.754E+02	-2.036E+03
GRAND TOTAL	9.284E+01	2.572E+01	3.426E+01	2.314E+02	4.425E+02	2.450E+03	8.187E+01	5.077E+01	3.426E+01	3.595E+02	3.199E+02	2.400E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (49)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	12	3	3	12	17	12
X MAXIMUM	-7.769E+00	-2.549E+00	3.699E+00	-3.079E+01	2.394E+01	1.186E+02
Y	12	2	3	3	5	2
Y MAXIMUM	3.619E+00	1.237E+01	1.124E+01	7.153E+01	-2.804E+01	2.804E+02
Z	2	2	3	2	3	2
Z MAXIMUM	2.047E+01	-7.981E+01	1.537E+01	3.545E+02	-2.115E+01	-1.809E+03
GRAND TOTAL	2.572E+01	9.284E+01	3.426E+01	4.578E+02	1.378E+02	2.135E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (50)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	12	3	3	12	12	17	12	3	3	12	12	3
X MAXIMUM	-7.769E+00	-3.699E+00	-2.549E+00	-3.079E+01	-1.186E+02	2.394E+01	-7.769E+00	-3.699E+00	-2.549E+00	-3.079E+01	-1.018E+02	4.685E+01
Y	12	3	2	3	2	5	12	3	2	3	2	3
Y MAXIMUM	3.619E+00	-1.124E+01	1.237E+01	7.153E+01	-2.804E+01	-2.804E+01	3.619E+00	-1.124E+01	1.237E+01	7.153E+01	-1.067E+02	1.424E+02
Z	2	3	2	2	2	3	2	3	2	2	2	2
Z MAXIMUM	2.047E+01	-1.537E+01	-7.981E+01	3.545E+02	1.809E+03	-2.115E+01	2.047E+01	-1.537E+01	-7.981E+01	3.545E+02	6.886E+02	-2.092E+02
GRAND TOTAL	2.572E+01	3.426E+01	9.284E+01	4.578E+02	2.135E+03	1.378E+02	2.572E+01	3.426E+01	9.284E+01	4.578E+02	8.397E+02	4.617E+02

GRAND TOTAL 2.572E+01 3.426E+01 9.284E+01 4.578E+02 2.135E+03 1.378E+02 2.572E+01 3.426E+01 9.284E+01 4.578E+02 2.135E+03 1.378E+02

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (51)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	12	3	12	12	12	12	3	12	3	12	3	3
X MAXIMUM	-1.063E+01	-6.165E+00	4.853E+00	-3.079E+01	-1.018E+02	4.685E+01	-1.063E+01	-6.165E+00	4.853E+00	-3.079E+01	-5.805E+01	2.011E+02
Y	14	3	2	3	2	3	14	3	2	3	2	3
Y MAXIMUM	5.595E+00	1.874E+01	1.653E+01	7.153E+01	-1.067E+02	1.424E+02	5.595E+00	1.874E+01	1.653E+01	7.153E+01	3.068E+02	6.112E+02
Z	2	3	2	2	2	2	2	3	2	2	2	2
Z MAXIMUM	2.411E+01	-2.562E+01	-1.066E+02	3.345E+02	6.886E+02	-2.092E+02	2.411E+01	-2.562E+01	-1.066E+02	3.345E+02	-1.980E+03	-8.429E+02
GRAND TOTAL	3.323E+01	5.891E+01	1.242E+02	4.578E+02	8.397E+02	4.617E+02	3.323E+01	5.891E+01	1.242E+02	4.578E+02	2.277E+03	1.903E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (52)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(C)	VY(C)	VZ(C)	TX(C)	MY(C)	MZ(C)
X	12	3	12	12	12	3	3	17	12	12	3	3
X MAXIMUM	-1.063E+01	6.165E+00	-4.853E+00	-3.079E+01	5.805E+01	-2.011E+02	-1.010E+01	6.546E+00	-4.853E+00	6.214E+01	3.650E+01	-2.213E+02
Y	14	3	2	3	2	3	3	3	2	2	2	3
Y MAXIMUM	5.595E+00	1.874E+01	-1.653E+01	7.153E+01	-3.068E+02	-6.112E+02	1.234E+01	1.416E+01	-1.653E+01	-2.754E+02	-2.329E+02	-6.725E+03
Z	2	3	2	2	2	2	2	3	2	2	2	2
Z MAXIMUM	2.411E+01	-2.562E+01	1.066E+02	3.345E+02	1.980E+03	8.429E+02	1.687E+01	-3.496E+01	1.066E+02	1.777E+03	1.503E+03	9.552E+02
GRAND TOTAL	3.323E+01	5.891E+01	1.242E+02	4.578E+02	2.277E+03	1.903E+03	2.924E+01	6.096E+01	1.242E+02	2.093E+03	1.687E+03	2.122E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (52)

	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	3	12	12	3	14	3
X MAXIMUM	6.165E+00	1.063E+01	-4.853E+00	7.327E+01	1.678E+01	-2.307E+02
Y	3	14	2	2	10	3
Y MAXIMUM	1.874E+01	-5.595E+00	-1.653E+01	-3.812E+02	4.440E+01	-7.013E+02
Z	3	2	2	2	2	2
Z MAXIMUM	2.562E+01	-2.411E+01	1.066E+02	2.459E+03	1.454E+02	1.065E+03
GRAND TOTAL	5.891E+01	3.323E+01	1.242E+02	2.836E+03	1.985E+02	2.278E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (53)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	3	12	12	3	3	14	3	12	12	3	3	12
X MAXIMUM	6.165E+00	4.853E+00	1.063E+01	7.327E+01	2.307E+02	1.678E+01	6.165E+00	4.853E+00	1.063E+01	7.327E+01	2.373E+02	-6.646E+01
Y	3	2	14	2	3	10	3	2	14	2	3	2
Y MAXIMUM	1.874E+01	1.653E+01	-5.595E+00	-3.812E+02	7.013E+02	4.440E+01	1.874E+01	1.653E+01	-5.595E+00	-3.812E+02	7.212E+02	-2.794E+02
Z	3	2	2	2	2	2	3	2	2	2	2	2
Z MAXIMUM	2.562E+01	-1.066E+02	-2.411E+01	2.459E+03	-1.065E+03	1.454E+02	2.562E+01	-1.066E+02	-2.411E+01	2.459E+03	-1.440E+03	1.803E+03
GRAND TOTAL	5.891E+01	1.242E+02	3.323E+01	2.836E+03	2.278E+03	1.985E+02	5.891E+01	1.242E+02	3.323E+01	2.836E+03	2.689E+03	2.038E+03

ELEMENT TYPE (3/D P I P E) / / / ELEMENT NUMBER (54)

	PX(I)	VY(I)	VZ(I)	TX(I)	MY(I)	MZ(I)	PX(J)	VY(J)	VZ(J)	TX(J)	MY(J)	MZ(J)
X	3	12	12	3	3	12	3	12	12	3	12	12
X MAXIMUM	6.165E+00	4.985E+00	1.091E+01	7.327E+01	2.373E+02	-6.646E+01	6.165E+00	4.985E+00	1.091E+01	7.327E+01	3.113E+02	-1.460E+02
Y	3	2	14	2	3	2	3	2	14	2	3	2
Y MAXIMUM	1.874E+01	1.659E+01	-5.845E+00	-3.812E+02	7.212E+02	-2.794E+02	1.874E+01	1.659E+01	-5.845E+00	-3.812E+02	7.432E+02	-5.441E+02
Z	3	2	2	2	2	2	3	2	2	2	2	2
Z MAXIMUM	2.562E+01	-1.070E+02	-2.433E+01	2.459E+03	-1.440E+03	1.803E+03	2.562E+01	-1.070E+02	-2.433E+01	2.459E+03	-1.828E+03	3.511E+03
GRAND TOTAL	5.892E+01	1.246E+02	3.396E+01	2.836E+03	2.689E+03	2.038E+03	5.892E+01	1.246E+02	3.396E+01	2.836E+03	3.153E+03	4.027E+03

ELEMENT TYPE (8 O U N D A R Y) / / / ELEMENT NUMBER (1)

	Y-F	HDRY-M
X	1	0
X MAXIMUM	3.628E-02	0.
Y	1	0

Z MAXIMUM 2.377E-01 0.
GRAND TOTAL 2.439E-01 0.

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (2)

BDRY-F BDRY-M
X 6 0
X MAXIMUM -4.476E-03 0.
Y 6 0
Y MAXIMUM -2.625E-02 0.
Z 1 0
Z MAXIMUM 2.391E-02 0.
GRAND TOTAL 3.633E-02 0.

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (3)

BDRY-F BDRY-M
X 5 0
X MAXIMUM -5.363E-03 0.
Y 5 0
Y MAXIMUM -3.318E-02 0.
Z 3 0
Z MAXIMUM 6.632E-03 0.
GRAND TOTAL 3.534E-02 0.

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (4)

BDRY-F BDRY-M
X 3 0
X MAXIMUM -5.466E-03 0.
Y 3 0
Y MAXIMUM -1.661E-02 0.
Z 2 0
Z MAXIMUM 3.018E-02 0.
GRAND TOTAL 5.835E-02 0.

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (5)

BDRY-F BDRY-M
X 1 0
X MAXIMUM -5.707E+00 0.
Y 11 0
Y MAXIMUM -3.734E+01 0.
Z 1 0
Z MAXIMUM -3.739E+01 0.
GRAND TOTAL 5.455E+01 0.

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (6)

BDRY-F BDRY-M
X 17 0
X MAXIMUM -7.387E+00 0.
Y 5 0
Y MAXIMUM -1.424E+01 0.
Z 2 0
Z MAXIMUM 2.637E+01 0.
GRAND TOTAL 5.001E+01 0.

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (7)

BDRY-F BDRY-M
X 13 0
X MAXIMUM -1.179E+01 0.

X 15 0
X MAXIMUM -1.179E+01 0.

Y 6 0
Y MAXIMUM -7.706E+00 0.
Z 1 0
Z MAXIMUM -2.734E+01 0.
GRAND TOTAL 3.430E+01 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (8)

BDRY-F BDRY-M
X 6 0
X MAXIMUM -6.642E+00 0.
Y 6 0
Y MAXIMUM -3.896E+01 0.
Z 1 0
Z MAXIMUM 2.605E+01 0.
GRAND TOTAL 4.878E+01 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (9)

BDRY-F BDRY-M
X 4 0
X MAXIMUM 1.592E+01 0.
Y 1 0
Y MAXIMUM 1.707E+01 0.
Z 1 0
Z MAXIMUM -1.009E+02 0.
GRAND TOTAL 1.063E+02 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (10)

BDRY-F BDRY-M
X 4 0
X MAXIMUM -2.360E+01 0.
Y 7 0
Y MAXIMUM -1.119E+01 0.
Z 2 0
Z MAXIMUM -3.880E+01 0.
GRAND TOTAL 6.642E+01 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (11)

BDRY-F BDRY-M
X 17 0
X MAXIMUM -4.469E+00 0.
Y 6 0
Y MAXIMUM -2.426E+01 0.
Z 3 0
Z MAXIMUM 1.282E+01 0.
GRAND TOTAL 5.266E+01 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (12)

BDRY-F BDRY-M
X 4 0
X MAXIMUM 2.295E+01 0.
Y 1 0
Y JM 1.322E+01 0.
Z 1 0
Z JM -7.814E+01 0.
GRAND TOTAL 9.644E+01 0.

RY-F BDRY-M
X 17 0
X MAXIMUM -1.454E+01 0.
Y 5 0
Y MAXIMUM -9.452E+00 0.
Z 2 0
Z MAXIMUM 1.079E+01 0.
GRAND TOTAL 2.898E+01 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (14)

BDRY-F BDRY-M
X 5 0
X MAXIMUM -7.680E+00 0.
Y 5 0
Y MAXIMUM -4.751E+01 0.
Z 3 0
Z MAXIMUM 7.284E+00 0.
GRAND TOTAL 5.026E+01 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (15)

BDRY-F BDRY-M
X 12 0
X MAXIMUM 6.416E+00 0.
Y 2 0
Y MAXIMUM 3.014E+00 0.
Z 2 0
Z MAXIMUM -1.945E+01 0.
GRAND TOTAL 2.680E+01 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (16)

BDRY-F BDRY-M
X 12 0
X MAXIMUM -1.091E+01 0.
Y 14 0
Y MAXIMUM 5.845E+00 0.
Z 2 0
Z MAXIMUM 2.433E+01 0.
GRAND TOTAL 3.396E+01 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (17)

BDRY-F BDRY-M
X 3 0
X MAXIMUM -6.165E+00 0.
Y 3 0
Y MAXIMUM -1.874E+01 0.
Z 3 0
Z MAXIMUM -2.562E+01 0.
GRAND TOTAL 5.892E+01 0.

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (18)

BDRY-F BDRY-M
X 12 0
X MAXIMUM 4.985E+00 0.
Y 2 0
Y MAXIMUM 1.659E+01 0.
Z 2 0
Z MAXIMUM -1.070E+02 0.
GRAND TOTAL 1.246E+02 0.

Z MAXIMUM -1.070E+02 0.
GRAND TOTAL 1.246E+02 0.

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (19)

	RDRY-F	RDRY-M	
X	0	0	1
X MAXIMUM	0.	-5.351E+02	
Y	0	0	1
Y MAXIMUM	0.	5.931E+02	
Z	0	0	1
Z MAXIMUM	0.	-3.505E+03	
GRAND TOTAL	0.	3.689E+03	

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (20)

	RDRY-F	RDRY-M	
X	0	0	1
X MAXIMUM	0.	-4.679E+02	
Y	0	0	1
Y MAXIMUM	0.	5.186E+02	
Z	0	0	1
Z MAXIMUM	0.	-3.045E+03	
GRAND TOTAL	0.	3.187E+03	

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (21)

	RDRY-F	RDRY-M	
X	0	0	13
X MAXIMUM	0.	3.356E+02	
Y	0	0	6
Y MAXIMUM	0.	1.450E+03	
Z	0	0	13
Z MAXIMUM	0.	-1.611E+02	
GRAND TOTAL	0.	1.579E+03	

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (22)

	RDRY-F	RDRY-M	
X	0	0	1
X MAXIMUM	0.	3.556E+02	
Y	0	0	5
Y MAXIMUM	0.	-7.881E+02	
Z	0	0	1
Z MAXIMUM	0.	2.329E+03	
GRAND TOTAL	0.	2.552E+03	

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (23)

	RDRY-F	RDRY-M	
X	0	0	4
X MAXIMUM	0.	-1.322E+03	
Y	0	0	1
Y MAXIMUM	0.	-1.448E+03	
Z	0	0	1
Z MAXIMUM	0.	8.561E+03	
GRAND TOTAL	0.	9.310E+03	

ELEMENT TYPE (R O U N D A R Y) / / / ELEMENT NUMBER (24)

	RDRY-F	RDRY-M	
X	0	0	5
X MAXIMUM	0.	1.989E+02	
Y	0	0	5

Z 0 2
Z MAXIMUM 0. 7.879E+02
GRAND TOTAL 0. 2.790E+03

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (25)

BDRY-F BDRY-M
X 0 12
X MAXIMUM 0. 1.861E+02
Y 0 2
Y MAXIMUM 0. 9.325E+01
Z 0 2
Z MAXIMUM 0. -6.016E+02
GRAND TOTAL 0. 8.440E+02

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (26)

BDRY-F BDRY-M
X 0 12
X MAXIMUM 0. 6.425E+01
Y 0 5
Y MAXIMUM 0. 6.319E+01
Z 0 2
Z MAXIMUM 0. -3.568E+02
GRAND TOTAL 0. 4.739E+02

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (27)

-107-
BDRY-F BDRY-M
X 0 17
X MAXIMUM 0. 4.022E+02
Y 0 5
Y MAXIMUM 0. 1.841E+03
Z 0 3
Z MAXIMUM 0. -3.721E+02
GRAND TOTAL 0. 2.088E+03

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (28)

BDRY-F BDRY-M
X 0 12
X MAXIMUM 0. 1.460E+02
Y 0 2
Y MAXIMUM 0. 5.441E+02
Z 0 2
Z MAXIMUM 0. -3.511E+03
GRAND TOTAL 0. 4.027E+03

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (29)

BDRY-F BDRY-M
X 0 3
X MAXIMUM 0. -7.327E+01
Y 0 2
Y MAXIMUM 0. 3.812E+02
Z 0 2
Z MAXIMUM 0. -2.459E+03
GRAND TOTAL 0. 2.836E+03

ELEMENT TYPE (B O U N D A R Y) / / / ELEMENT NUMBER (30)

BDRY-F BDRY-M
0 12

	DIRTY=	DIRTY=	
X	0	12	
X MAXIMUM	0.	3.113E+02	
Y	0	3	
Y MAXIMUM	0.	7.432E+02	
Z	0	2	
Z MAXIMUM	0.	-1.028E+03	
GRAND TOTAL	0.	3.153E+04	

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