

APPENDIX-III

A SAMPLE OUTPUT FROM COMPUTER

0 TOTAL NO. OF PROBLEMS = -1-----

PROBLEM NO 1 SHEAR TEST IN 45 RITY AMPL

NPBTS = 34 NSELE = 21 NVPFA = 17 NCBSE = 1 NTYPE = 1 NNODE = 9 NDOFN =
 NPBTS = 2 NSELE = 5 NCBSE = 1 NDOFN = 2 NTYPE = 2 NCBAS = 16

ELEMENT	PROPERTY	NODE NUMBERS							
1	1	1	2	3	17	26	28	24	16
2	1	3	4	5	18	28	27	25	17
3	1	5	6	7	19	30	29	23	18
4	1	7	8	9	20	32	31	30	19
5	1	9	10	11	21	34	33	32	20
6	1	11	12	13	22	36	35	34	21
7	1	13	14	15	23	38	37	36	22
8	1	24	25	26	40	49	48	47	39
9	1	26	27	28	41	51	50	49	40
10	2	28	29	30	42	53	52	51	41
11	2	30	31	32	43	55	54	53	42
12	2	32	33	34	44	57	56	55	43
13	2	34	35	36	45	59	58	57	44
14	2	36	37	38	46	61	60	59	45
15	1	47	48	49	63	72	71	70	62
16	1	49	50	51	64	74	73	72	63
17	1	51	52	53	65	76	75	74	64
18	1	53	54	55	66	78	77	76	65
19	1	55	56	57	67	80	79	78	66
20	1	57	58	59	68	82	81	80	67
21	1	59	60	61	69	84	83	82	68

NODAL POINT COORDINATES

NODE	X	Y
1	.000	.000
2	.004	.000
3	.008	.000
4	.012	.000
5	.016	.000
6	.020	.000
7	.024	.000
8	.030	.000
9	.036	.000
10	.040	.000
11	.044	.000
12	.048	.000
13	.052	.000
14	.056	.000
15	.060	.000

END

16	.009	.015
17	.008	.015
18	.016	.015
19	.024	.015
20	.015	.015
21	.044	.015
22	.052	.016
23	.060	.016
24	.000	.015
25	.016	.015
26	.009	.015
27	.012	.015
28	.015	.012
29	.020	.014
30	.024	.015
31	.030	.014
32	.036	.012
33	.040	.014
34	.044	.015
35	.049	.015
36	.052	.012
37	.056	.014
38	.060	.016
39	.000	.013
40	.008	.017
41	.015	.013
42	.024	.017
43	.036	.013
44	.044	.017
45	.052	.013
46	.060	.017
47	.000	.014
48	.004	.015
49	.009	.019
50	.012	.016
51	.015	.014
52	.020	.015
53	.024	.018
54	.030	.016
55	.036	.014
56	.040	.015
57	.044	.018
58	.049	.016
59	.052	.014
60	.056	.016
61	.060	.018
62	.000	.020
63	.008	.020
64	.015	.020
65	.024	.020
66	.036	.020
67	.044	.020
68	.052	.020
69	.060	.020
70	.000	.025

71	.004	.026
72	.008	.026
73	.012	.026
74	.016	.026
75	.020	.026
76	.024	.026
77	.030	.026
78	.036	.026
79	.040	.026
80	.044	.026
81	.048	.026
82	.052	.026
83	.056	.026
84	.060	.026

RESTRAINED NODES

NODE CODE	FIXED VALUES
1 11	.000000 .000000
2 11	.000000 .000000
3 11	.000000 .000000
4 11	.000000 .000000
5 11	.000000 .000000
6 11	.000000 .000000
7 11	.000000 .000000
8 11	.000000 .000000
9 11	.000000 .000000
10 11	.000000 .000000
11 11	.000000 .000000
12 11	.000000 .000000
13 11	.000000 .000000
14 11	.000000 .000000
15 11	.000000 .000000
23 10	.000000 .000000
28 10	.000000 .000000

MATERIAL PROPERTIES

NUMBER	PROPERTIES
1	4000.000000 .300000 1.000000 1.400000 .000000
2	300.000000 1.500000 1.000000 1.100000 .000000

MAX FRONTWIDTH ENCOUNTERED = 40

0 RMAL DAB .00 sq.m SHE LOA 25.0 /sq.
0 0 1 0

LOAD CASE = 1

0 NO. OF LOADED EDGES = 8

0 LIST OF LOADED EDGES AND APPLIED LOADS

15	72	71	70			
15.000	15.000	15.000	.000	.000	.000	
16	74	73	72			
15.000	15.000	15.000	.000	.000	.000	
17	76	75	74			
15.000	15.000	15.000	.000	.000	.000	
18	78	77	76			

ELEMENT NO. =	19	XFORCE=	.000	YFORCE=	-.540
ELEMENT NO. =	17	XFORCE=	.000	YFORCE=	-.660
ELEMENT NO. =	16	XFORCE=	.000	YFORCE=	-.780
ELEMENT NO. =	15	XFORCE=	.400	YFORCE=	-.900
ELEMENT NO. =	14	XFORCE=	.400	YFORCE=	-.900
ELEMENT NO. =	13	XFORCE=	.400	YFORCE=	-.900
ELEMENT NO. =	12	XFORCE=	.400	YFORCE=	-.900
ELEMENT NO. =	11	XFORCE=	.400	YFORCE=	-.900
ELEMENT NO. =	10	XFORCE=	.400	YFORCE=	-.900
ELEMENT NO. =	9	XFORCE=	.400	YFORCE=	-.900
ELEMENT NO. =	8	XFORCE=	.400	YFORCE=	-.900
ELEMENT NO. =	7	XFORCE=	.400	YFORCE=	-.900
ELEMENT NO. =	6	XFORCE=	.400	YFORCE=	-.900
ELEMENT NO. =	5	XFORCE=	.400	YFORCE=	-.900
ELEMENT NO. =	4	XFORCE=	.400	YFORCE=	-.900
ELEMENT NO. =	3	XFORCE=	.400	YFORCE=	-.900
ELEMENT NO. =	2	XFORCE=	.400	YFORCE=	-.900
ELEMENT NO. =	1	XFORCE=	.400	YFORCE=	-.900

DISPLACEMENTS

0	0	NODE	X-DISP.	Y-DISP.
		1	.000000E+00	.000000E+00
		2	.000000E+00	.000000E+00
		3	.000000E+00	.000000E+00
		4	.000000E+00	.000000E+00
		5	.000000E+00	.000000E+00
		6	.000000E+00	.000000E+00
		7	.000000E+00	.000000E+00
		8	.000000E+00	.000000E+00
		9	.000000E+00	.000000E+00
		10	.000000E+00	.000000E+00
		11	.000000E+00	.000000E+00
		12	.000000E+00	.000000E+00
		13	.000000E+00	.000000E+00
		14	.000000E+00	.000000E+00
		15	.000000E+00	.000000E+00
		16	.273989E-03	.445206E-03
		17	.234778E-03	.549455E-04
		19	.160204E-03	-.759301E-04
		19	.756408E-04	-.122014E-03
		20	.172479E-04	-.224939E-03
		21	-.330171E-04	-.219332E-04
		22	-.266483E-04	.118152E-03
		23	.000000E+00	.130623E-03
		24	.100618E-02	.890379E-03
		25	.978083E-03	.414658E-03
		26	.924499E-03	.191951E-03
		27	.694798E-03	.725949E-04
		28	.462189E-03	-.105581E-03
		29	.414631E-03	-.195824E-03
		30	.456817E-03	-.264891E-03
		31	.259792E-03	-.429741E-03
		32	-.153164E-03	-.385378E-03
		33	-.446107E-03	-.121162E-03
		34	-.742436E-03	-.160823E-04
		35	-.439445E-03	.264213E-04

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36 -.147516E-03 .178557E-03
37 -.994003E-04 .263731E-02
39 .000000E+00 .266263E-03
39 .396779E-03 -.201123E-02
40 .593415E-03 .236961E-03
41 .770586E-03 .762267E-03
42 .426654E-03 .742089E-03
43 -.362541E-03 .210792E-02
44 -.327081E-03 -.149635E-03
45 -.613255E-03 -.752593E-03
46 -.316937E-03 -.106657E-01
47 .073680E-04 -.274173E-02
48 .107989E-04 -.267576E-02
49 .272111E-03 -.188809E-02
50 .911468E-03 -.378008E-03
51 .127120E-02 .747291E-02
52 .976596E-03 .185729E-02
53 .295882E-03 .315236E-02
54 -.359577E-02 .371624E-02
55 -.410440E-03 .250199E-02
56 -.112089E-03 .203109E-02
57 -.179800E-02 .131629E-02
58 -.649379E-02 .537151E-04
59 -.115549E-02 -.991193E-02
60 -.722650E-03 -.195141E-02
61 -.562719E-02 -.307329E-02
62 -.316310E-03 -.312650E-02
63 -.239732E-02 -.182333E-02
64 -.215861E-01 .734589E-02
65 -.270796E-04 .394626E-02
66 .125275E-03 .357493E-02
67 .191946E-03 .124854E-02
68 .182381E-03 -.296658E-02
69 .159871E-02 -.292644E-02
70 -.144772E-02 -.736179E-02
71 -.145743E-02 -.255767E-02
72 -.158717E-02 -.159065E-02
73 -.176167E-02 -.581406E-02
74 -.161173E-02 .577439E-02
75 -.133299E-02 .187172E-02
76 -.811069E-03 .275412E-02
77 .106234E-03 .307478E-02
78 .768109E-02 .249616E-02
79 .104932E-02 .191603E-02
80 .136467E-02 .112007E-02
81 .153382E-02 .106928E-02
82 .150537E-02 -.100393E-02
83 .159619E-02 -.195545E-02
84 .154311E-02 -.299774E-02

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0 SFLECTIONS

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0 NODE Y-FORCE Y-FORCE
1 -.349556E+00 -.463370E+00
2 .210637E+00 -.852722E+00
3 -.172675E+00 -.143211E+00
4 -.101468E+00 .124388E+00

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5 .169270E+00 .140446E+00
6 -.441543E+00 .482165E+00
7 -.106183E+00 .359006E+00
8 .546018E+00 .115150E+01
9 -.161797E+00 .553935E+00
10 -.716565E+00 .563488E+00
11 .761200E+00 .177540E+01
12 -.109768E+00 -.226760E+00
13 -.123451E+00 -.163774E+00
14 .176582E+00 .188243E+00
15 -.143577E+00 .157871E+00
16 .742943E+00 .000000E+00
17 -.146936E+00 .000000E+00

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STRESSES

	NO.F.	X-CORD.	Y-CORD.	X-STRESS	Y-STRESS	XY-STRESS	Z-STRESS	MAX P.S.	MIN P.S.	ANGLE
ELEMENT NO.= 1										
1	.0009	.0017	.06701E+02	.28137E+07	.16595E+02	.00000E+00	.28278E+03	.85297E+02	-4.8377	
2	.0009	.0060	.69885E+02	.26547E+03	.13007E+02	.00000E+00	.26633E+03	.69024E+02	-3.7982	
3	.0009	.0110	.13942E+03	.19397E+03	-.19249E+02	.00000E+00	.19408E+03	-.14053E+03	3.3033	
4	.0040	.0012	.44405E+02	.14785E+03	.22936E+02	.00000E+00	.15271E+03	.39548E+02	-11.9575	
5	.0040	.0060	.17491E+02	.12372E+03	.34359E+02	.00000E+00	.13387E+03	.73466E+01	-16.4488	
6	.0040	.0120	-.15269E+03	.62430E+02	.15785E+02	.00000E+00	.63582E+02	-.15384E+03	-4.1743	
7	.0071	.0010	.14989E+02	.58150E+02	.27587E+02	.00000E+00	.71595E+02	.15479E+01	-25.9824	
8	.0071	.0060	-.13750E+02	.52486E+02	.57453E+02	.00000E+00	.85682E+02	-.46947E+02	-30.0195	
9	.0071	.0131	-.15760E+02	.19743E+02	.57839E+02	.00000E+00	.28700E+02	-.17556E+03	-17.2476	
ELEMENT NO.= 2										
1	.0089	.0010	.11904E+02	.34156E+02	.29714E+02	.00000E+00	.54759E+02	-.86993E+01	-34.7362	
2	.0089	.0060	-.25283E+02	.36194E+02	.68040E+02	.00000E+00	.80117E+02	-.69206E+02	-32.8440	
3	.0089	.0131	-.62943E+02	.31197E+02	.83342E+02	.00000E+00	.79843E+02	-.11159E+03	-30.2715	
4	.0120	.0012	.73581E+00	-.40430E+01	.27039E+02	.00000E+00	.25274E+02	-.28982E+02	42.6854	
5	.0120	.0060	-.34113E+02	.10507E+02	.49336E+02	.00000E+00	.42269E+02	-.65878E+02	-32.8157	
6	.0120	.0120	-.76676E+02	.13505E+02	.53785E+02	.00000E+00	.42582E+02	-.10565E+03	-26.2397	
7	.0151	.0017	-.13529E+02	-.46914E+02	.24478E+02	.00000E+00	-.12543E+01	-.62189E+02	26.5580	
8	.0151	.0060	-.48875E+02	-.73940E+02	.27762E+02	.00000E+00	-.12547E+02	-.69968E+02	-17.5169	
9	.0151	.0110	-.10108E+03	-.26017E+02	.27195E+02	.00000E+00	-.17200E+02	-.10990E+03	-17.9634	
ELEMENT NO.= 3										
1	.0169	.0013	-.44813E+02	-.77343E+02	.22924E+02	.00000E+00	-.32970E+02	-.89186E+02	27.3218	
2	.0169	.0060	-.93191E+02	-.70506E+02	.42900E+02	.00000E+00	-.39365E+02	-.12933E+03	-36.0386	
3	.0169	.0110	-.17468E+01	-.73027E+02	.53476E+02	.00000E+00	-.50076E+02	-.19763E+03	-23.2282	
4	.0200	.0012	-.43197E+01	-.92034E+02	.74191E+01	.00000E+00	-.42095E+02	-.93136E+02	8.4492	
5	.0200	.0060	-.64909E+02	-.75422E+02	.36701E+02	.00000E+00	-.33089E+02	-.10724E+03	40.9243	
6	.0200	.0120	-.10144E+03	-.71637E+02	.49328E+02	.00000E+00	-.35008E+02	-.13807E+03	-36.5959	
7	.0271	.0010	-.47070E+02	-.11379E+03	-.25065E+01	.00000E+00	-.39972E+02	-.10388E+03	-2.2494	
8	.0271	.0060	-.19568E+02	-.73484E+02	.37774E+02	.00000E+00	-.78337E+01	-.95219E+02	29.9155	
9	.0271	.0131	-.33317E+02	-.61644E+02	.52454E+02	.00000E+00	.68522E+01	-.10181E+03	37.4449	
ELEMENT NO.= 4										
1	.0254	.0013	-.15521E+02	-.10320E+02	-.31541E+00	.00000E+00	-.15530E+02	-.12571E+03	-.2692	
2	.0254	.0060	-.12771E+02	-.78639E+02	.36993E+01	.00000E+00	.13591E+02	-.78756E+02	5.7927	
3	.0254	.0110	-.16349E+02	-.74789E+02	.14051E+01	.00000E+00	-.75299E+01	-.74939E+02	2.0279	

4	.0300	.0012	-.47093E+02	-.18421E+03	.21773E+02	.00000E+00	-.43719E+02	-.18768E+03	8.8094
5	.0300	.0012	-.12947E+02	-.14174E+03	.15753E+02	.00000E+00	-.59004E+02	-.14421E+03	10.5622
6	.0300	.0120	-.17204E+03	-.14424E+03	.75231E+01	.00000E+00	-.14232E+03	-.17794E+03	-14.2061
7	.0341	.0012	-.40539E+02	-.13790E+03	.24058E+02	.00000E+00	-.56203E+02	-.14230E+03	10.3525
8	.0341	.0060	-.12851E+02	-.17034E+03	.24570E+01	.00000E+00	-.12639E+03	-.17058E+02	3.1780
9	.0346	.0110	-.12281E+03	-.19681E+03	-.13646E+02	.00000E+00	-.19465E+03	-.37498E+03	7.4001

ELEMENT NO.= 5

1	.0369	.0012	-.49078E+02	-.15272E+03	.57548E+01	.00000E+00	-.42210E+02	-.15959E+03	11.9979
2	.0369	.0060	-.12722E+03	-.13938E+03	.23954E+02	.00000E+00	-.98389E+02	-.14721E+03	40.3339
3	.0369	.0110	-.24632E+03	-.14034E+03	.47271E+02	.00000E+00	-.12233E+03	-.26433E+03	-20.8614
4	.0400	.0012	-.12018E+02	-.74291E+02	.25261E+02	.00000E+00	-.48794E+01	-.81430E+02	17.7813
5	.0400	.0060	-.39071E+02	-.46327E+02	-.99831E+01	.00000E+00	-.32050E+02	-.53308E+02	34.9630
6	.0400	.0120	-.89312E+02	-.78416E+02	-.21767E+02	.00000E+00	.29386E+02	.98342E+02	21.2149
7	.0431	.0010	.18039E+02	-.24558E+02	.17208E+02	.00000E+00	.34109E+02	-.40638E+02	77.6245
8	.0431	.0060	.36750E+02	.43686E+02	-.40604E+02	.00000E+00	.64272E+02	-.23154E+02	-34.1304
9	.0431	.0131	.40388E+02	.16597E+02	-.77843E+02	.00000E+00	.10329E+03	-.46303E+02	-40.4745

ELEMENT NO.= 6

1	.0449	.0010	-.28860E+02	-.26404E+02	.33018E+02	.00000E+00	.54088E+01	-.60673E+02	-43.9249
2	.0449	.0060	-.18872E+02	-.99059E+01	-.44564E+02	.00000E+00	.30391E+02	-.59189E+02	42.1213
3	.0449	.0131	-.18233E+01	.16651E+01	-.87621E+02	.00000E+00	.87560E+02	-.87718E+02	44.4298
4	.0480	.0012	-.10776E+02	.14614E+02	.22846E+02	.00000E+00	.28065E+02	-.24188E+02	-30.4889
5	.0480	.0060	.58938E+01	.90314E+01	-.21374E+02	.00000E+00	.28894E+02	-.13968E+02	42.9011
6	.0480	.0120	.40583E+02	.12639E+02	-.52512E+02	.00000E+00	.80974E+02	-.27689E+02	-37.5646
7	.0511	.0010	.12463E+02	.74812E+02	.18181E+02	.00000E+00	.79728E+02	.75671E+01	-15.1294
8	.0511	.0060	.38713E+02	.54756E+02	.71057E+01	.00000E+00	.57460E+02	.36025E+02	-20.7640
9	.0511	.0110	.96209E+02	.47062E+02	-.75870E+01	.00000E+00	.97444E+02	.45828E+02	-8.8972

ELEMENT NO.= 7

1	.0529	.0012	.31392E+02	.10599E+03	.11233E+02	.00000E+00	.10758E+03	.29702E+02	-9.4755
2	.0529	.0060	.57785E+02	.82978E+02	-.11233E+02	.00000E+00	.87175E+02	.52888E+02	20.4797
3	.0529	.0110	.20759E+03	.99563E+02	-.26509E+02	.00000E+00	.20995E+03	.93197E+02	-12.5030
4	.0560	.0012	.31718E+02	.12125E+03	.85603E+01	.00000E+00	.12206E+03	.30906E+02	-5.4165
5	.0560	.0060	.39480E+02	.87187E+02	-.65250E+01	.00000E+00	.88665E+02	.38003E+02	9.8332
6	.0560	.0120	.13859E+03	.93717E+02	-.16824E+02	.00000E+00	.14420E+03	.88110E+02	-18.4325
7	.0591	.0010	.25833E+02	.11762E+03	.97208E+00	.00000E+00	.11763E+03	.25823E+02	-.6067
8	.0591	.0060	.17052E+02	.75716E+02	-.11695E+02	.00000E+00	.77576E+02	.14792E+02	10.9363
9	.0591	.0131	.32149E+02	.76202E+02	-.19855E+02	.00000E+00	.99846E+02	.59531E+02	-40.0290

ELEMENT NO.= 8

1	.0609	.0012	-.66703E+02	.32272E+02	.12936E+03	.00000E+00	.54887E+03	-.12914E+03	-35.2747
2	.0609	.0060	.79624E+02	.17776E+02	.23070E+03	.00000E+00	.37685E+03	-.99436E+02	-37.8187
3	.0609	.0142	.56264E+02	.72809E+02	.23871E+02	.00000E+00	.90526E+02	.40646E+02	-36.7837
4	.0640	.0012	.87796E+02	.15745E+03	.31751E+02	.00000E+00	.21029E+03	.30960E+02	-32.6745
5	.0640	.0060	.79920E+02	.15571E+02	.21671E+02	.00000E+00	.34324E+03	-.97705E+02	-39.3914
6	.0640	.0120	.75119E+02	.17798E+03	.23300E+01	.00000E+00	.36155E+03	-.11545E+03	-38.8350
7	.0671	.0010	.57761E+02	-.15093E+02	-.14703E+02	.00000E+00	.16942E+03	.12653E+03	-37.5727
8	.0671	.0060	.58977E+02	.12901E+03	.21505E+02	.00000E+00	.71385E+03	-.11987E+03	-41.2886
9	.0671	.0131	.42704E+02	.12651E+02	.45526E+02	.00000E+00	.67583E+03	-.79468E+03	-35.0502

ELEMENT NO.= 9

1	.0689	.0010	-.146374E+02	-.177901E+02	.431205E+02	.00000E+00	-.16347E+02	-.16811E+02	35.0122
2	.0689	.0060	-.17552E+02	.30717E+02	-.12049E+03	.00000E+00	.24400E+03	-.17124E+02	37.4715
3	.0689	.0110	-.15521E+02	.25894E+02	-.40746E+02	.00000E+00	.56223E+03	-.20816E+03	36.6979

4	.0120	.0142	-.80581E+01	-.10264E+03	.18223E+03	.00000E+00	.13291E+03	-.24362E+03	37.7268
5	.0120	.0150	.22894E+02	.24165E+02	.23277E+02	.00000E+00	.46815E+02	.24419E+00	-44.2181
6	.0120	.0158	.57939E+02	.15097E+03	-.99039E+02	.00000E+00	.21387E+03	-.49647E+01	32.4211
7	.0151	.0127	.16010E+02	-.11689E+03	.27140E+03	.00000E+00	.23022E+03	-.32910E+03	38.0215
8	.0151	.0135	.50934E+02	-.21503E+02	.19710E+03	.00000E+00	.21108E+03	-.19165E+03	39.0943
9	.0151	.0142	.57775E+02	.53886E+02	.15945E+03	.00000E+00	.23126E+03	-.89440E+02	41.9524

ELEMENT NO.= 10

1	.0165	.0127	-.45319E+02	-.11140E+03	-.11154E+03	.00000E+00	.37969E+02	-.19469E+03	-36.7492
2	.0165	.0135	-.63904E+02	-.59472E+02	.37059E+02	.00000E+00	-.24563E+02	-.98813E+02	-43.2890
3	.0165	.0142	-.89078E+02	-.75395E+01	.25073E+03	.00000E+00	.20572E+03	-.30233E+03	-40.3822
4	.0200	.0142	-.33939E+02	-.88467E+02	-.75895E+02	.00000E+00	.18994E+02	-.14639E+03	-36.2854
5	.0200	.0150	-.55145E+02	-.11009E+03	-.69114E+02	.00000E+00	.10699E+02	-.17584E+02	-36.4120
6	.0200	.0158	-.77749E+02	-.13172E+03	-.34258E+02	.00000E+00	-.61124E+02	-.14834E+02	-25.8861
7	.0231	.0158	-.11128E+02	-.70809E+02	-.10977E+03	.00000E+00	.72784E+02	-.15472E+03	-37.3959
8	.0231	.0165	-.24772E+02	-.16599E+03	-.27880E+03	.00000E+00	.19222E+03	-.38299E+03	-37.8940
9	.0231	.0173	-.45005E+02	-.26118E+03	-.38276E+03	.00000E+00	.24464E+03	-.55082E+03	-37.1156

ELEMENT NO.= 11

1	.0254	.0158	-.27134E+02	-.10758E+03	.95985E+02	.00000E+00	.39364E+02	-.17028E+03	33.1532
2	.0254	.0165	-.44046E+02	-.19271E+02	.27268E+03	.00000E+00	.11651E+03	-.35287E+03	35.7932
3	.0254	.0173	-.60929E+02	-.27705E+03	.28480E+03	.00000E+00	.13569E+03	-.47357E+03	34.6067
4	.0300	.0142	-.51031E+02	-.22568E+02	.15585E+03	.00000E+00	.40969E+02	-.31672E+03	30.3129
5	.0300	.0150	-.50596E+02	-.20097E+03	.16261E+03	.00000E+00	.53323E+02	-.30489E+03	32.6071
6	.0300	.0158	-.47317E+02	-.17613E+03	.10480E+03	.00000E+00	.11286E+02	-.23473E+03	29.2174
7	.0346	.0127	-.52348E+02	-.30855E+02	.26790E+03	.00000E+00	.11647E+03	-.47747E+03	32.2175
8	.0346	.0135	-.32717E+02	-.17445E+03	.15471E+03	.00000E+00	.66580E+02	-.27375E+03	32.6957
9	.0346	.0142	-.91750E+01	-.40242E+02	-.23036E+02	.00000E+00	.30728E+01	-.52492E+02	-28.0051

ELEMENT NO.= 12

1	.0358	.0127	-.19527E+01	-.28206E+03	-.57140E+03	.00000E+00	.45060E+03	-.77782E+03	-37.9393
2	.0358	.0135	.11007E+02	-.15901E+03	-.38086E+03	.00000E+00	.32013E+03	-.45854E+03	-39.0105
3	.0358	.0142	.11593E+02	-.17665E+02	-.87829E+02	.00000E+00	.86239E+02	-.91905E+02	-40.2175
4	.0400	.0142	-.25747E+02	-.13193E+02	-.21458E+03	.00000E+00	.14046E+03	-.20111E+03	-38.2450
5	.0400	.0150	-.19222E+02	-.11541E+02	-.25939E+03	.00000E+00	.19640E+03	-.33103E+03	-39.7400
6	.0400	.0158	-.15759E+02	-.98913E+02	-.10141E+03	.00000E+00	.14632E+03	-.26297E+03	-39.1681
7	.0400	.0158	-.44623E+02	.17988E+02	-.5219E+02	.00000E+00	.86948E+02	-.11349E+03	-25.9117
8	.0400	.0165	-.31973E+02	-.51772E+02	-.18455E+03	.00000E+00	.12984E+03	-.24265E+03	-41.1854
9	.0400	.0173	-.25403E+02	-.12073E+02	-.76182E+03	.00000E+00	.26699E+03	-.47313E+03	-38.9427

ELEMENT NO.= 13

1	.0444	.0158	-.11903E+02	.69176E+02	-.45907E+02	.00000E+00	.10159E+03	.28710E+01	35.0469
2	.0444	.0165	.93707E+01	.55460E+02	-.20517E+02	.00000E+00	.87564E+02	-.11372E+02	37.0851
3	.0444	.0173	-.23516E+02	-.18004E+02	.23427E+03	.00000E+00	.14692E+02	-.35079E+02	35.8531
4	.0480	.0142	.22778E+01	.97269E+02	-.17302E+03	.00000E+00	.22668E+02	-.11311E+02	37.6739
5	.0480	.0150	-.20716E+02	-.20070E+02	-.54112E+02	.00000E+00	.51540E+02	-.79959E+02	39.6631
6	.0480	.0158	-.54378E+02	-.97375E+02	.17915E+02	.00000E+00	-.47052E+02	-.10382E+03	19.9026
7	.0511	.0127	-.71397E+02	.11459E+03	-.20769E+03	.00000E+00	.34433E+03	-.75055E+03	38.0350
8	.0511	.0135	-.58061E+02	.48547E+02	-.27901E+02	.00000E+00	.23221E+03	-.15417E+03	38.5604
9	.0511	.0142	-.84317E+02	-.17509E+02	-.14077E+03	.00000E+00	.17594E+02	-.14476E+03	40.1145

ELEMENT NO.= 14

1	.0529	.0127	.67151E+02	.11766E+03	.65784E+02	.00000E+00	.19029E+03	.70086E+01	-36.7417
2	.0529	.0135	.72862E+02	.71367E+02	-.1414E+02	.00000E+00	.91308E+02	.56441E+02	45.0527
3	.0529	.0142	.87244E+02	.10275E+02	-.4209E+03	.00000E+00	.23034E+03	-.11289E+02	-40.7291

4	.0560	.0162	.58933E+02	.11934E+03	.90409E+02	.00000E+00	.18446E+03	-.61831E+01	-35.7628
5	.0560	.0150	.57856E+02	.11878E+03	.77006E+02	.00000E+00	.17113E+03	.55060E+01	-34.2086
6	.0560	.0158	.61450E+02	.11822E+03	.24563E+02	.00000E+00	.12737E+03	.52297E+02	-20.4370
7	.0591	.0158	.57604E+02	.12173E+03	.83013E+02	.00000E+00	.17866E+03	.67835E+00	-34.4401
8	.0591	.0165	.45739E+02	.16530E+03	.16289E+03	.00000E+00	.28471E+03	-.73677E+02	-35.2563
9	.0591	.0172	.38546E+02	.20886E+03	.21581E+03	.00000E+00	.35571E+03	-.10830E+03	-34.2339

ELEMENT NO.= 15

1	.0009	.0157	-.35142E+02	-.95684E+02	.63347E+03	.00000E+00	.97948E+01	-.14062E+03	33.1327
2	.0009	.0200	-.33972E+02	-.10061E+03	-.22591E+03	.00000E+00	-.26999E+02	-.10754E+03	-17.0621
3	.0009	.0246	-.35946E+02	-.11237E+03	-.77414E+02	.00000E+00	-.80891E+01	-.16435E+03	-34.9952
4	.0040	.0167	.19056E+03	.10552E+03	.16735E+03	.00000E+00	.32990E+03	-.24518E+02	37.8486
5	.0040	.0200	.56758E+02	.61863E+02	.26611E+02	.00000E+00	.86054E+02	.32567E+02	-42.2615
6	.0040	.0245	-.78173E+02	.19577E+02	-.19766E+02	.00000E+00	.27422E+02	-.82019E+02	11.0099
7	.0071	.0178	.58286E+03	.35006E+03	.95471E+02	.00000E+00	.61701E+03	.31592E+03	19.6795
8	.0071	.0233	.12195E+03	.13977E+03	.24169E+02	.00000E+00	.15632E+03	.10495E+03	-35.1112
9	.0071	.0243	-.13079E+03	.48171E+02	.80946E+01	.00000E+00	.48536E+02	-.13115E+03	-2.5845

ELEMENT NO.= 16

1	.0087	.0178	.15665E+03	.17023E+03	.14221E+03	.00000E+00	.24560E+03	-.73928E+02	31.4411
2	.0087	.0200	.16104E+03	.76873E+02	.14346E+03	.00000E+00	.27412E+03	-.36331E+02	37.1276
3	.0087	.0247	-.77841E+02	.13459E+02	.77223E+02	.00000E+00	.61314E+02	-.12070E+03	-29.0277
4	.0120	.0167	.14168E+03	-.112817E+03	.12113E+03	.00000E+00	.58274E+02	-.18303E+03	28.4766
5	.0120	.0200	.92151E+02	-.53793E+02	.89885E+02	.00000E+00	.13535E+03	-.96086E+02	26.4066
6	.0120	.0245	.13529E+02	-.45065E+02	.53339E+02	.00000E+00	.54689E+02	-.80224E+02	28.7275
7	.0151	.0157	-.98217E+02	-.55365E+02	.76355E+02	.00000E+00	-.10015E+01	-.16018E+03	-39.0029
8	.0151	.0200	.71735E+02	-.23768E+02	.75603E+02	.00000E+00	.11227E+03	-.63700E+02	28.1956
9	.0151	.0246	.15173E+03	.17309E+02	.64528E+02	.00000E+00	.17322E+03	-.34074E+02	16.7190

ELEMENT NO.= 17

1	.0169	.0157	.19428E+03	.39635E+02	.55937E+02	.00000E+00	.24579E+03	.38296E+02	29.8833
2	.0169	.0200	.39292E+02	.16957E+02	.87567E+02	.00000E+00	.12978E+03	-.34527E+02	38.2803
3	.0169	.0246	.14491E+02	.17658E+02	.77454E+02	.00000E+00	.17329E+03	-.22517E+02	24.3061
4	.0200	.0167	.54579E+03	.11362E+03	.87519E+02	.00000E+00	.14296E+03	-.23982E+02	-24.7942
5	.0200	.0200	.12262E+03	.49400E+01	.89212E+02	.00000E+00	.93361E+02	-.85195E+02	-44.0831
6	.0200	.0245	.12901E+03	.38960E+02	.69888E+02	.00000E+00	.30819E+03	.19978E+02	14.5059
7	.0241	.0178	-.15774E+03	-.87296E+02	.11507E+03	.00000E+00	-.36586E+02	-.34841E+03	-23.7835
8	.0271	.0200	-.10255E+02	-.15445E+03	.16453E+03	.00000E+00	.28067E+02	-.29508E+03	40.5139
9	.0241	.0246	.11555E+03	-.25316E+02	.97597E+02	.00000E+00	.45715E+03	-.45014E+02	11.9165

ELEMENT NO.= 18

1	.0254	.0178	-.35352E+03	-.26774E+03	.66437E+03	.00000E+00	-.26163E+03	-.37163E+03	-13.5532
2	.0254	.0200	-.10095E+03	-.20122E+03	-.72618E+03	.00000E+00	-.10047E+03	-.20175E+03	-4.1207
3	.0254	.0247	.48474E+02	-.33954E+02	-.47048E+01	.00000E+00	.48477E+03	-.37990E+02	-.4753
4	.0200	.0167	-.10872E+03	-.65967E+02	.93517E+03	.00000E+00	.95849E+03	-.18327E+03	-38.5618
5	.0200	.0200	.22581E+02	-.89808E+02	.11276E+02	.00000E+00	.27694E+02	-.80920E+02	5.6534
6	.0300	.0245	.39729E+03	-.10714E+02	-.17403E+02	.00000E+00	.39803E+03	-.11460E+02	-2.4664
7	.0346	.0157	.17308E+03	.46462E+02	-.35957E+02	.00000E+00	.22877E+03	-.11108E+02	-29.2217
8	.0346	.0200	.13808E+03	-.51656E+01	-.91314E+02	.00000E+00	.18251E+03	-.49990E+02	-25.6452
9	.0346	.0246	.71471E+02	.15246E+02	-.75477E+02	.00000E+00	.23092E+03	-.16070E+03	-12.9826

ELEMENT NO.= 19

1	.0349	.0157	.17125E+03	.11891E+02	-.75147E+02	.00000E+00	.17431E+03	-.11477E+03	-13.2135
2	.0349	.0200	.17476E+02	-.58130E+02	-.43338E+02	.00000E+00	.17139E+03	-.17316E+02	17.5135
3	.0349	.0246	.22867E+03	.30288E+01	-.19360E+02	.00000E+00	.23056E+03	.13368E+01	4.9947

4	.0400	.0167	-.45842E+02	-.31066E+02	-.13091E+03	.00000E+00	.92666E+02	-.16957E+03	43.3850
5	.0400	.0200	.21460E+02	-.39586E+02	-.67254E+02	.00000E+00	.64793E+02	-.82920E+02	-32.7948
6	.0400	.0245	.23690E+03	.99184E+01	-.77393E+02	.00000E+00	.24290E+03	.39170E+01	-9.1179
7	.0431	.0178	-.31441E+02	-.20829E+03	-.16757E+03	.00000E+00	-.14140E+03	-.38129E+03	51.8701
8	.0431	.0200	-.80118E+02	-.10506E+03	-.44372E+02	.00000E+00	-.46381E+02	-.13980E+03	-36.9374
9	.0431	.0247	.24244E+03	-.25389E+01	-.42354E+02	.00000E+00	.24956E+03	-.96547E+01	-9.5370

ELEMENT NO. = 25

1	0.449	0.176	-0.5144E+02	-0.00391E+02	-0.12630E+03	0.00000E+00	0.12975E+03	-0.25209E+03	40.4377
2	0.449	0.0200	-0.92718E+01	-0.58717E+02	-0.11802E+03	0.00000E+00	0.37254E+02	-0.15394E+03	-37.0149
3	0.449	0.247	0.17755E+02	-0.06658E+02	-0.74040E+02	0.00000E+00	0.16613E+03	0.64242E+02	-21.1093
4	0.490	0.0167	0.12953E+02	0.14594E+03	-0.97736E+02	0.00000E+00	0.19929E+03	-0.40397E+02	28.1508
5	0.490	0.0200	0.49275E+00	0.17525E+02	-0.76816E+02	0.00000E+00	0.36329E+02	-0.68251E+02	41.8258
6	0.430	0.245	0.71744E+02	-0.26679E+02	-0.60143E+02	0.00000E+00	0.10024E+03	-0.55194E+02	-25.7514
7	0.511	0.0157	0.73262E+02	0.12859E+03	-0.61545E+02	0.00000E+00	0.15636E+03	0.24910E+01	26.5638
8	0.511	0.0260	-0.17675E+02	0.7094E+01	-0.55252E+02	0.00000E+00	0.49294E+02	-0.63261E+02	39.5275
9	0.511	0.245	-0.11599E+02	-0.08898E+02	-0.52665E+02	0.00000E+00	0.15101E+02	-0.11557E+03	-26.8576

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1	0.0171	0.0337	0.55349E+01	0.58530E+01	-0.42442E+02	0.00000E+00	0.50667E+02	-0.34261E+02	-44.0876
2	0.0173	0.03	0.52146E+02	0.24430E+01	0.35102E+01	0.00000E+00	0.28716E+02	0.19769E+01	7.6110
3	0.0472	0.04	0.07773E+01	0.31500E-01	0.11706E+02	0.00000E+00	0.32838E+02	0.33840E+01	26.2974
4	0.0512	0.067	-0.7153E+02	-0.0753E+03	-0.67650E+02	0.0000E+00	-0.15743E+02	-0.15794E+03	-36.6920
5	0.048	0.01	0.4516E+01	0.51679E+00	0.40941E+01	0.0000E-03	0.33575E+01	-0.12971E+01	25.6720
6	0.0526	0.0249	0.40310E+02	0.29877E+02	0.83921E-01	0.0000E+00	0.39823E+02	0.14310E+02	-0.1697
7	0.0564	0.075	-0.11502E+03	-0.3555E+01	0.41843E+02	0.0000E+00	0.14232E+03	-0.12297E+03	-9.1545
8	0.0572	0.01	-0.57049E+01	0.04255E+02	0.17117E+02	0.0000E+00	0.32022E+02	-0.11470E+01	-24.4047
9	0.0584	0.0201	-0.74543E+02	-0.45828E+02	-0.31558E+02	0.0000E+00	-0.21270E+01	-0.12244E+02	-39.9316

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CALCULATION OF EQUILIBRIUM CREDIT AND FACTORS OF SAFETY
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