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GA-A14764
VOLUME 2

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MCOCO A COMPUTER PROGRAM FOR SEISMIC ANALYSIS OF THE HTGR CORE

VOLUME 2
SAMPLE PROBLEM OUTPUT

SEE LETTER DTD
MAY 19, 1978

by

R. W. THOMPSON

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Prepared under
Contract EY-76-C-03-0167
Project Agreement No. 65
for the San Francisco Operations Office
Department of Energy

DATE PUBLISHED: APRIL 1978

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**GA-A14764
VOLUME 2**

MCOCO A COMPUTER PROGRAM FOR SEISMIC ANALYSIS OF THE HTGR CORE

VOLUME 2 SAMPLE PROBLEM OUTPUT

**by
R. W. THOMPSON**

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SAMPLE PROBLEM OUTPUT

Contained in this section is output for the sample problem from $t = 1.0$ to 1.2 seconds. It consists of one initial run ($t = 1.0$ to 1.03 seconds) and six restart runs ($t = 1.03 - 1.06$, $1.06 - 1.09$, $1.09 - 1.12$, $1.12 - 1.15$, $1.15 - 1.18$ and $1.18 - 1.2$ seconds). Total output is included for only two runs ($t = 1.0 - 1.03$ initial run and $1.03 - 1.06$ restart run). The output for the other five runs consist of only printout as a function of time (see Section 5, Volume 1). The print interval was 0.01 seconds.

Also presented are plots of core and boundary motion for the sample problem. Plots are presented at $t = 1.0, 1.03, 1.04, 1.05, 1.06, 1.09, 1.1, 1.11, 1.12, 1.13, 1.14, 1.15, 1.16, 1.17, 1.18, 1.19$ and 1.2 seconds.

INPUT REPEAT															CARD NO.
MCOCO SIMULATION-1/5 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1															CARD 1
10	500	1	1												1
6	6	14	14	14	14	14	14	6	6						2
1.	1.029999	.00002													3
246500.	19.36	297000.	21.25												4
800.	580000.	.2	1.31												5
.0	.0														6
.0	.0	.0													7
6	3														8
.011	.069	.0													9
3	1	2	2	1	2	2	1	3							10
1	5.7	11.968	26.2												11
2	2.83	6.24	6.15												12
3	2.83	3.12	3.07												13
4	2.63	4.68	4.61												14
5	.5	11.968	21.3												15
6	2.83	3.12	2.63												16
5	5	5	5	5	5										17
1	1	1	1	1	1										18
3	3	3	2	2	2	2	2	2	2	2	3	2	6		19
4	3	2	2	2	2	2	2	2	2	2	3	4	3	6	20
3	3	3	2	2	2	2	2	2	2	2	3	2	6		21
3	3	3	2	2	2	2	2	2	2	2	3	2	6		22
4	3	2	2	2	2	2	2	2	2	2	3	4	3	6	23
3	3	3	2	2	2	2	2	2	2	2	3	2	6		24
1	1	1	1	1	1	2									25
5	5	5	5	5	5										26
0.0															27
23760.	1.066	.0	.0	.2	40.										28
2															29
.0	.0	.0													30
12	12	12	24	39	39	39	27	27	39	39	39	39			31
24	32	12	12												32
1	1	2	3	3	4	4	5	5	6	6					33
1	1	2	3	3	4	4	5	5	6	6					CARD 18
-1.	1.	-1.	1.	-1.	1.	-1.	1.	-1.	1.	-1.	1.	-1.	1.		CARD 19
-1.	1.	-1.	1.	-1.	1.	-1.	1.	-1.	1.	-1.	1.	-1.	1.		2L-1-20
1	2	2	3	3	4	4	5	5	6	6	6	7	7	8	2R-1-21
1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	CARD 18
1.	-1.	1.	-1.	1.	-1.	-1.64	1.	-1.	1.	-1.	-1.	-1.328	1.	-1.	CARD 19
1.	-1.	-1.492	1.	-1.	1.	-1.	-1.656	1.	-1.	1.	-1.	-1.	-1.641	1.	3L-1-20
-1.	1.	-1.	1.												3L-2-20
-.479	.043	.564	1.	-1.	-1.393	.65	1.	-1.	-1.307	.735	1.	-1.	-.222		3L-3-20
.621	1.	-1.	-.136	.906	1.	-1.	-.572	.471	1.						3R-1-21
1	1	2	2	3	3	3	4	4	5	5	5	6	6	6	3R-2-21
1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	CARD 18
1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	18A
1	2	2	2	3	3	3	4	4	5	5	5	6	6	6	CARD 19
1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	19A
.333	1.0	-1.0	0.0	1.0	-1.0	-0.5	1.0	-1.0	-0.5	1.0	-1.0	-0.5	1.0		4L-1-20
-1.0	-0.5	1.0	-1.0	-0.5	1.0	-1.0	-0.5	1.0	-1.0	-0.5	1.0	-1.0	-0.5		4L-2-20

INPUT REPEAT														CARD NO.	
1.	-1.	.0	1.	-1.	-.333	1.	-1.	1.	-1.	1.				4L-3-20	51
1.0	-1.0	0.0	1.0	-1.0	0.0	1.0	-1.0	0.5	1.0	-1.0	0.5	1.0	-1.0	4R-1-21	52
0.5	1.0	-1.0	0.5	1.0	-1.0	0.5	1.0	-1.0	0.5	1.0	-1.0	0.5	1.0	4R-2-21	53
-1.	.5	1.	-1.	.0	1.	-1.	.0	1.	-1.	1.				4R-3-21	54
1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 9 10 10 10 11 11 11 12 12 12 13 13														CARD 18	55
131414														18A	56
1 1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 9 10 10 10 11 11 11 12 12 12 13 13														CARD 19	57
131414														19A	58
1.0	-1.0	0.0	1.0	-1.0	0.0	1.0	-1.0	0.5	1.0	-1.0	0.5	1.0	-1.0	5L-1-20	59
0.5	1.0	-1.0	0.5	1.0	-1.0	0.5	1.0	-1.0	0.5	1.0	-1.0	0.5	1.0	5L-2-20	60
-1.	.5	1.	-1.	.0	1.	-1.	.0	1.	-1.	1.				5L-3-20	61
.333	1.0	-1.0	0.0	1.0	-1.0	-0.5	1.0	-1.0	-0.5	1.0	-1.0	-0.5	1.0	5R-1-21	62
-1.0	-0.5	1.0	-1.0	-0.5	1.0	-1.0	-0.5	1.0	-1.0	-0.5	1.0	-1.0	-0.5	5R-2-21	63
1.	-1.	.0	1.	-1.	-.333	1.	-1.	1.	-1.	1.				5R-3-21	64
1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 10 10 11 11 12 12 13 13 14 14														CARD 18	65
1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 10 10 11 11 12 12 13 13 14 14														CARD 19	66
1.0	-1.0	1.0	-1.0	1.0	-1.0	1.0	-1.0	1.0	-1.0	1.0	-1.0	1.0	-1.0	6L-1-20	67
1.0	-1.0	1.0	-1.0	1.0	-1.0	1.0	-1.0	1.0	-1.0	1.0	-1.0	1.0	-1.0	6L-2-20	68
1.0	-1.0	1.0	-1.0	1.0	-1.0	1.0	-1.0	1.0	-1.0	1.0	-1.0	1.0	-1.0	6R-1-21	69
1.0	-1.0	1.0	-1.0	1.0	-1.0	1.0	-1.0	1.0	-1.0	1.0	-1.0	1.0	-1.0	6R-2-21	70
1 1 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 9 10 10 10 11 11 11 12 12 12 13 13														CARD 18	71
131414														18A	72
1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 9 10 10 10 11 11 11 12 12 12 13 13														CARD 19	73
131414														19A	74
.333	1.0	-1.0	0.0	1.0	-1.0	-0.5	1.0	-1.0	-0.5	1.0	-1.0	-0.5	1.0	7L-1-20	75
-1.0	-0.5	1.0	-1.0	-0.5	1.0	-1.0	-0.5	1.0	-1.0	-0.5	1.0	-1.0	-0.5	7L-2-20	76
1.	-1.	.0	1.	-1.	-.333	1.	-1.	1.	-1.	1.				7L-3-20	77
1.0	-1.0	0.0	1.0	-1.0	0.0	1.0	-1.0	0.5	1.0	-1.0	0.5	1.0	-1.0	7R-1-21	78
0.5	1.0	-1.0	0.5	1.0	-1.0	0.5	1.0	-1.0	0.5	1.0	-1.0	0.5	1.0	7R-2-21	79
-1.	.5	1.	-1.	.0	1.	-1.	.0	1.	-1.	1.				7R-3-21	80
1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 9 10 10 10 11 11 11 12 12 12 13 13														CARD 18	81
131414														18	82
1 1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 9 10 10 10 11 11 11 12 12 12 13 13														CARD 19	83
131414														19A	84
1.0	-1.0	0.0	1.0	-1.0	0.0	1.0	-1.0	0.5	1.0	-1.0	0.5	1.0	-1.0	8L-1-20	85
0.5	1.0	-1.0	0.5	1.0	-1.0	0.5	1.0	-1.0	0.5	1.0	-1.0	0.5	1.0	8L-2-20	86
-1.	.5	1.	-1.	.0	1.	-1.	.0	1.	-1.	1.				8L-3-20	87
.333	1.0	-1.0	0.0	1.0	-1.0	-0.5	1.0	-1.0	-0.5	1.0	-1.0	-0.5	1.0	8R-1-21	88
-1.0	-0.5	1.0	-1.0	-0.5	1.0	-1.0	-0.5	1.0	-1.0	-0.5	1.0	-1.0	-0.5	8R-2-21	89
1.	-1.	.0	1.	-1.	-.333	1.	-1.	1.	-1.	1.				8R-3-21	90
1 1 1 1 2 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 6														CARD 18	91
1 2 2 3 3 4 4 4 5 5 6 6 6 7 7 8 8 8 9 9 10 10 10 11 11 11 12 12 12 13 13 14 14														CARD 19	92
-.479	.043	.564	1.	-1.	-.393	.65	1.	-1.	-.307	.735	1.	-1.	-.222	9L-1-20	93
.621	1.	-1.	-.136	.906	1.	-1.	-.572	.471	1.					9L-2-20	94
1.	-1.	1.	-1.	1.	-1.	-.164	1.	-1.	1.	-1.	-.328	1.	-1.	9R-1-21	95
1.	-1.	-.492	1.	-1.	1.	-1.	-.656	1.	-1.	1.	-1.	-.641	1.	9R-2-21	96
-1.	1.	-1.	1.											9R-3-21	97
1 1 2 2 3 3 4 4 5 5 6 6														CARD 18	98
1 1 2 2 3 3 4 4 5 5 6 6														CARD 19	99
-1.	1.	-1.	1.	-1.	1.	-1.	1.	-1.	1.	-1.	1.			10L-1-20	100

INPUT REPEAT													CARD NO.	
.5	.5	.75	.5	.5	.5	.5	1.	.5	1.	1.	1.	4	HSK	151
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	4	HSK	152
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	4	HSK	153
1.	1.	1.	.5	1.	.5	.5	.75	.5	1.	.75	.5	4	HSK	154
1.	.429	.429										4	HSK	155
.5	.5	.75	.5	.5	.5	.5	1.	.5	1.	1.	1.	4	HDF	156
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	4	HDF	157
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	4	HDF	158
1.	1.	1.	.5	1.	.5	.5	.75	.5	1.	.75	.5	4	HDF	159
1.	.429	.429										4	HDF	160
1.33331.6	1.33331.6	1.33331.6	1.	1.	1.	1.	1.	1.	1.	1.33331.6		4	VSF	161
1.6	1.847											4	VSF	162
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	4	VDF	163
1.	.922											4	VDF	164
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	VSFC	165
.0	.0											4	VSFC	166
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	VDFC	167
.0	.0											4	VDFC	168
.5	.5	.75	.5	.5	.5	.5	1.	.5	1.	1.	1.	5	HSK	169
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	5	HSK	170
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	5	HSK	171
1.	1.	1.	.5	1.	.5	.5	.75	.5	1.	.75	.5	5	HSK	172
1.	.429	.429										5	HSK	173
.5	.5	.75	.5	.5	.5	.5	1.	.5	1.	1.	1.	5	HDF	174
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	5	HDF	175
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	5	HDF	176
1.	1.	1.	.5	1.	.5	.5	.75	.5	1.	.75	.5	5	HDF	177
1.	.429	.429										5	HDF	178
2.	2.	2.	1.33331.	1.	1.	1.	1.	1.	1.	1.33331.		5	VSF	179
1.33331.263												5	VSF	180
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	5	VDF	181
1.	.922											5	VDF	182
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	VSFC	183
.0	.0											5	VSFC	184
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	VDFC	185
.0	.0											6	VDFC	186
.5	.5	.5	.5	.5	1.	1.	1.	1.	1.	1.	1.	6	HSK	187
1.	1.	1.	1.	1.	1.	1.	1.	1.	.5	.5	1.	6	HSK	188
1.	.429	.429										6	HSK	189
.5	.5	.5	.5	.5	1.	1.	1.	1.	1.	1.	1.	6	HDF	190
1.	1.	1.	1.	1.	1.	1.	1.	1.	.5	.5	1.	6	HDF	191
1.	.429	.429										6	HDF	192
2.	2.	2.	1.33331.	1.	1.	1.	1.	1.	1.	1.33331.		6	VSF	193
1.33331.263												6	VSF	194
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	6	VDF	195
1.	.922											6	VDF	196
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	VSFC	197
.0	.0											6	VSFC	198
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	VDFC	199
.0	.0											6	VDFC	200

INPUT REPEAT												CARD NO.	
.5	.5	.75	.5	.5	.5	.5	1.	.5	1.	1.	1.	7 HSK	201
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	7 HSK	202
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	7 HSK	203
1.	1.	1.	.5	1.	.5	.5	.75	.5	1.	.75	.5	7 HSK	204
1.	.429	.429										7 HSK	205
.5	.5	.75	.5	.5	.5	.5	1.	.5	1.	1.	1.	7 HDF	206
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	7 HDF	207
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	7 HDF	208
1.	1.	1.	.5	1.	.5	.5	.75	.5	1.	.75	.5	7 HDF	209
1.	.429	.429										7 HDF	210
1.33331.6	1.33331.6	1.33331.6	1.	1.	1.	1.	1.	1.	1.	1.33331.6	1.6	7 VSF	211
1.6	1.847											7 VSF	212
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	7 VDF	213
1.	.922											7 VDF	214
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7 VSFC	215
.0	.0											7 VSFC	216
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7 VDFC	217
.0	.0											7 VDFC	218
.5	.5	.75	.5	.5	.5	.5	1.	.5	1.	1.	1.	8 HSK	219
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	8 HSK	220
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	8 HSK	221
1.	1.	1.	.5	1.	.5	.5	.75	.5	1.	.75	.5	8 HSK	222
1.	.429	.429										8 HSK	223
.5	.5	.75	.5	.5	.5	.5	1.	.5	1.	1.	1.	8 HDF	224
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	8 HDF	225
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	8 HDF	226
1.	1.	1.	.5	1.	.5	.5	.75	.5	1.	.75	.5	8 HDF	227
1.	.429	.429										8 HDF	228
2.	2.	2.	1.33331.6	1.	1.	1.	1.	1.	1.	1.	1.33331.6	8 VSF	229
1.33331.6	1.33331.6											8 VSF	230
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	8 VDF	231
1.	.922											8 VDF	232
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8 VSFC	233
.0	.0											8 VSFC	234
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8 VDFC	235
.0	.0											8 VDFC	236
.5	.5	.5	.5	.5	1.	1.	1.	1.	1.	1.	1.	9 HSK	237
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	9 HSK	238
1.	1.	1.	1.	1.	.5	1.	1.	.5	1.	1.	.429	9 HSK	239
.429												9 HSK	240
.5	.5	.5	.5	.5	1.	1.	1.	1.	1.	1.	1.	9 HDF	241
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	9 HDF	242
1.	1.	1.	1.	1.	.5	1.	1.	.5	1.	1.	.429	9 HDF	243
.429												9 HDF	244
4.26024.26024.26024.26024.26024.2602													245
4.26024.26024.26024.26024.26024.2602													246
.0	.0	.0	.0	.0	.0	.0						9 VSFC	247
.0	.0	.0	.0	.0	.0	.0						9 VDFC	248
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.		249
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.		250

INPUT REPEAT										CARD NO.
4.26024	2.26024	2.26024	2.26024	2.26024	2.26024	2.26024	2.26024	2.26024	2.26024	251
4.26024	2.26024	2.26024	2.26024	2.26024	2.26024	2.26024	2.26024	2.26024	2.26024	252
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10 VSFC 253
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10 VSFC 254
5.7	8.626	8.626	5.7							8 FLR 255
4.6	4.6	4.6	4.6							H FLR 256
.816	.816	.816	.816							8 POST 257
8.25	12.67	12.67	8.25							AM FLR 258
617000.	61.9	.0	.0							CARD 28 259
	5 .0	.011	.011	.011	.0					GAP FLR 260
	.0	.011	.011	.011	.0					GAP FLR 261
50.	-10.	90.	0.	2.0						262
MCOCO SIMULATION-1/5 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1										263
	2.0	.01								264
0										265
12001.	.24	.004472136								266
										CARD 30 267

ADD.P DOWNFORCE*TESTCASES.SHA50										
-1.947+00	-3.170+00	-4.887+00	-6.475+00	-8.153+00	-1.047+01	-1.333+01	-1.613+01			1 268
-1.869+01	-2.129+01	-2.391+01	-2.613+01	-2.779+01	-2.932+01	-3.100+01	-3.255+01			2 269
-3.374+01	-3.489+01	-3.644+01	-3.825+01	-3.993+01	-4.150+01	-4.306+01	-4.428+01			3 270
-4.460+01	-4.401+01	-4.285+01	-4.116+01	-3.869+01	-3.538+01	-3.144+01	-2.696+01			4 271
-2.184+01	-1.678+01	-9.822+00	-3.206+00	3.768+00	1.114+01	1.880+01	2.646+01			5 272
3.389+01	4.108+01	4.792+01	5.405+01	5.916+01	6.334+01	6.674+01	6.899+01			6 273
6.948+01	6.618+01	6.555+01	6.170+01	5.637+01	4.960+01	4.198+01	3.407+01			7 274
2.620+01	1.870+01	1.195+01	6.158+00	1.359+00	-2.223+00	-3.837+00	-2.513+00			8 275
2.205+00	1.004+01	2.026+01	3.196+01	4.413+01	5.580+01	6.609+01	7.423+01			9 276
7.937+01	8.060+01	7.741+01	7.002+01	5.925+01	4.639+01	3.304+01	2.048+01			10 277
9.321+00	9.310+02	-6.112+00	-8.178+00	-5.719+00	9.252+01	1.109+01	2.373+01			11 278
3.741+01	5.127+01	6.456+01	7.669+01	8.656+01	9.336+01	9.710+01	9.803+01			12 279
9.617+01	9.190+01	8.635+01	8.034+01	7.361+01	6.651+01	5.879+01	5.171+01			13 280
4.314+01	3.648+01	2.904+01	2.139+01	1.308+01	3.603+00	-5.819+00	-1.440+01			14 281
-2.099+01	-2.574+01	-2.922+01	-3.137+01	-3.193+01	-3.156+01	-3.140+01	-3.171+01			15 282
-3.229+01	-3.340+01	-3.601+01	-3.968+01	-4.341+01	-4.651+01	-4.911+01	-5.132+01			16 283
-5.291+01	-5.408+01	-5.523+01	-5.592+01	-5.530+01	-5.364+01	-5.246+01	-5.310+01			17 284
-5.595+01	-6.067+01	-6.658+01	-7.256+01	-7.754+01	-8.131+01	-8.398+01	-8.501+01			18 285
-6.320+01	-7.771+01	-6.899+01	-5.854+01	-4.799+01	-3.837+01	-2.986+01	-2.193+01			19 286
-1.383+01	-5.187+00	3.674+00	1.198+01	1.894+01	2.386+01	2.613+01	2.536+01			20 287
2.156+01	1.489+01	5.467+00	-1.153+00	-1.959+01	-3.016+01	-3.939+01	-4.490+01			21 288
-4.575+01	-3.515+01	-2.596+01	-1.679+00	2.387+01	6.047+01	1.071+02	1.444+02			22 289
1.432+02	2.149+02	2.368+02	2.460+02	2.439+02	2.206+02	2.026+02	1.691+02			23 290
1.317+02	9.464+01	6.061+01	3.077+01	5.745+00	-1.352+01	-2.593+01	-3.159+01			24 291
-3.187+01	-2.824+01	-2.177+01	-1.381+01	-6.035+00	3.255+01	4.641+00	6.158+00			25 292
4.163+00	-8.665+01	-7.017+00	-1.255+01	-1.734+01	-2.230+01	-2.829+01	-3.591+01			26 293
-4.566+01	-5.798+01	-7.286+01	-8.960+01	-1.071+02	-1.239+02	-1.390+02	-1.506+02			27 294
-1.571+02	-1.596+02	-1.582+02	-1.551+02	-1.512+02	-1.449+02	-1.421+02	-1.368+02			28 295
-1.311+02	-1.252+02	-1.200+02	-1.155+02	-1.103+02	-1.032+02	-9.407+01	-8.305+01			29 296
-6.977+01	-5.358+01	-3.469+01	-1.793+01	7.647+00	2.617+01	4.611+01	5.920+01			30 297
6.725+01	7.126+01	7.353+01	7.734+01	8.668+01	1.049+02	1.338+02	1.733+02			31 298
2.215+02	2.759+02	3.324+02	3.857+02	4.300+02	4.607+02	4.748+02	4.708+02			32 299
4.471+02	4.119+02	3.636+02	3.088+02	2.426+02	2.009+02	1.599+02	1.336+02			33 300

INPUT REPEAT

CARD
NO.

1.235+02 1.288+02 1.472+02 1.756+02 2.100+02 2.460+02 2.790+02 3.048+02
 3.196+02 3.209+02 3.084+02 2.833+02 2.482+02 2.052+02 1.556+02 1.005+02
 4.214+01-1.653+01-7.311+01-1.264+02-1.758+02-2.207+02-2.609+02-2.972+02
 -3.309+02-3.612+02-3.867+02-4.062+02-4.206+02-4.314+02-4.383+02-4.410+02
 -4.394+02-4.341+02-4.260+02-4.168+02-4.089+02-4.048+02-4.048+02-4.082+02
 -4.142+02-4.214+02-4.282+02-4.330+02-4.353+02-4.352+02-4.327+02-4.270+02
 -4.180+02-4.061+02-3.917+02-3.756+02-3.585+02-3.397+02-3.173+02-2.892+02
 -2.551+02-2.165+02-1.748+02-1.303+02-0.268+01-3.282+01 1.683+01 6.299+01
 1.022+02 1.308+02 1.465+02 1.487+02 1.385+02 1.175+02 8.805+01 5.318+01
 1.706+01-1.620+01-4.255+01-5.777+01-5.834+01-4.250+01-1.161+01 3.196+01
 6.529+01 1.452+02 2.079+02 2.690+02 3.231+02 3.650+02 3.908+02 3.993+02
 3.907+02 3.657+02 3.255+02 2.717+02 2.053+02 1.287+02 4.708+01-3.277+01
 -1.055+02-1.690+02-2.236+02-2.694+02-3.064+02-3.351+02-3.571+02-3.739+02
 -3.871+02-3.940+02-4.075+02-4.156+02-4.209+02-4.211+02-4.142+02-3.992+02
 -3.757+02-3.454+02-3.107+02-2.737+02-2.363+02-2.007+02-1.700+02-1.472+02
 -1.342+02-1.313+02-1.386+02-1.557+02-1.811+02-2.123+02-2.467+02-2.810+02
 -3.118+02-3.343+02-3.448+02-3.399+02-3.171+02-2.749+02-2.135+02-1.353+02
 -4.365+01 5.673+01 1.601+02 2.603+02 3.515+02 4.291+02 4.900+02 5.320+02
 5.537+02 5.553+02 5.403+02 5.142+02 4.821+02 4.466+02 4.087+02 3.703+02
 3.343+02 3.037+02 2.783+02 2.594+02 2.459+02 2.369+02 2.314+02 2.291+02
 2.339+02 2.392+02 2.569+02 2.651+02 3.235+02 3.710+02 4.249+02 4.821+02
 5.386+02 5.881+02 6.224+02 6.344+02 6.201+02 5.785+02 5.116+02 4.227+02
 3.167+02 1.968+02 7.131+01-5.028+01-1.566+02-2.395+02-2.959+02-3.271+02
 -3.354+02-3.233+02-2.942+02-2.522+02-2.022+02-1.496+02-9.950+01-5.565+01
 -1.999+01 6.655+00 2.380+01 3.135+01 2.996+01 2.116+01 6.234+00-1.426+01
 -3.992+01-7.106+01-1.093+01-1.564+02-2.124+02-2.742+02-3.366+02-3.937+02
 -4.401+02-4.708+02-4.816+02-4.684+02-4.283+02-3.613+02-2.721+02-1.685+02
 -5.995+01 4.496+01 1.385+02 2.143+02 2.695+02 3.046+02 3.221+02 3.231+02
 3.110+02 2.919+02 2.734+02 2.614+02 2.575+02 2.598+02 2.655+02 2.722+02
 2.780+02 2.816+02 2.811+02 2.737+02 2.580+02 2.357+02 2.110+02 1.878+02
 1.686+02 1.576+02 1.587+02 1.743+02 2.022+02 2.358+02 2.677+02 2.924+02
 3.056+02 3.047+02 2.866+02 2.588+02 2.185+02 1.721+02 1.253+02 8.450+01
 5.400+01 3.496+01 2.613+01 2.558+01 3.144+01 4.105+01 4.947+01 5.025+01
 3.862+01 1.435+01-2.087+01-6.314+01-1.092+02-1.514+02-1.881+02-2.148+02
 -2.282+02-2.256+02-2.068+02-1.737+02-1.323+02-8.935+01-5.128+01-2.222+01
 -3.515+00 5.953+00 8.646+00 6.208+00-1.032+00-1.279+01-2.614+01-3.637+01
 -3.935+01-3.419+01-2.297+01-8.541+00 6.981+00 2.244+01 3.760+01 5.167+01
 6.219+01 6.628+01 6.240+01 5.116+01 3.476+01 1.555+01-3.697+00-1.957+01
 -2.922+01-3.139+01-2.506+01-8.811+00 1.759+01 5.190+01 9.046+01 1.297+02
 1.661+02 1.966+02 2.189+02 2.325+02 2.367+02 2.303+02 2.125+02 1.846+02
 1.503+02 1.135+02 7.654+01 4.001+01 4.471+00-2.924+01-6.081+01-9.022+01
 -1.164+02-1.370+02-1.506+02-1.566+02-1.546+02-1.450+02-1.281+02-1.052+02
 -7.938+01-5.449+01-3.421+01-2.086+01-1.550+01-1.859+01-3.011+01-4.911+01
 -7.420+01-1.040+02-1.369+02-1.706+02-2.016+02-2.257+02-2.397+02-2.431+02
 -2.392+02-2.318+02-2.243+02-2.184+02-2.144+02-2.119+02-2.102+02-2.083+02
 -2.054+02-2.010+02-1.948+02-1.860+02-1.735+02-1.572+02-1.378+02-1.160+02
 -9.182+01-6.611+01-4.154+01-2.175+01-9.555+00-0.287+00-1.283+01-2.981+01
 -5.625+01-8.957+01-1.270+02-1.652+02-1.999+02-2.266+02-2.430+02-2.484+02
 -2.416+02-2.206+02-1.842+02-1.348+02-7.720+01-1.657+01 4.285+01 9.750+01
 1.436+02 1.768+02 1.939+02 1.942+02 1.796+02 1.533+02 1.194+02 8.242+01

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INPUT REPEAT										CARD NO.	
4.598+01	1.140+01	-2.005+01	-4.640+01	-6.571+01	-7.744+01	-8.356+01	-8.629+01			84	351
-8.724+01	-8.827+01	-9.110+01	-9.651+01	-1.045+02	-1.145+02	-1.257+02	-1.365+02			85	352
-1.444+02	-1.474+02	-1.456+02	-1.404+02	-1.330+02	-1.245+02	-1.165+02	-1.121+02			86	353
-1.128+02	-1.178+02	-1.250+02	-1.317+02	-1.359+02	-1.361+02	-1.305+02	-1.175+02			87	354
-9.569+01	-6.401+01	-2.289+01	2.519+01	7.694+01	1.288+02	1.767+02	2.138+02			88	355
2.376+02	2.460+02	2.400+02	2.215+02	1.937+02	1.601+02	1.234+02	8.600+01			89	356
5.158+01	2.474+01	8.767+00	4.312+00	9.857+00	2.334+01	4.206+01	6.326+01			90	357
8.525+01	1.081+02	1.324+02	1.576+02	1.827+02	2.070+02	2.307+02	2.532+02			91	358
2.731+02	2.894+02	3.014+02	3.079+02	3.060+02	2.939+02	2.745+02	2.475+02			92	359
2.118+02	1.693+02	1.212+02	7.033+01	1.890+01	-3.303+01	-8.311+01	-1.260+02			93	360
-1.585+02	-1.830+02	-2.031+02	-2.199+02	-2.330+02	-2.421+02	-2.472+02	-2.479+02			94	361
-2.446+02	-2.397+02	-2.351+02	-2.301+02	-2.233+02	-2.150+02	-2.065+02	-1.995+02			95	362
-1.953+02	-1.961+02	-2.037+02	-2.173+02	-2.348+02	-2.551+02	-2.783+02	-3.027+02			96	363
-3.240+02	-3.381+02	-3.409+02	-3.287+02	-2.983+02	-2.494+02	-1.847+02	-1.083+02			97	364
-2.928+01	6.331+01	1.494+02	2.281+02	2.944+02	3.447+02	3.770+02	3.915+02			98	365
3.998+02	3.794+02	3.598+02	3.333+02	3.013+02	2.667+02	2.326+02	2.009+02			99	366
1.710+02	1.418+02	1.126+02	8.421+01	5.810+01	3.590+01	1.876+01	7.118+00			100	367
1.407+00	2.576+00	1.143+01	2.832+01	5.276+01	6.303+01	1.163+02	1.493+02			101	368
1.800+02	2.066+02	2.277+02	2.416+02	2.464+02	2.404+02	2.237+02	1.945+02			102	369
1.540+02	1.043+02	4.600+01	-1.693+01	-8.970+01	-1.633+02	-2.348+02	-2.993+02			103	370
-3.540+02	-3.974+02	-4.276+02	-4.425+02	-4.397+02	-4.178+02	-3.777+02	-3.218+02			104	371
-2.531+02	-1.747+02	-9.010+01	-3.589+00	7.926+01	1.523+02	2.104+02	2.504+02			105	372
-2.715+02	-2.750+02	-2.623+02	-2.354+02	1.972+02	1.522+02	1.063+02	6.504+01			106	373
3.181+01	8.815+00	-2.541+00	-1.476+00	1.219+01	3.776+01	7.342+01	1.164+02			107	374
1.624+02	2.055+02	2.406+02	2.651+02	2.781+02	2.793+02	2.693+02	2.488+02			108	375
2.168+02	1.803+02	1.346+02	8.461+01	3.429+01	-1.322+01	-5.547+01	-9.124+01			109	376
-1.205+02	-1.439+02	-1.625+02	-1.769+02	-1.858+02	-1.873+02	-1.804+02	-1.659+02			110	377
-1.455+02	-1.216+02	-9.645+01	-7.217+01	-5.065+01	-3.461+01	-2.748+01	-3.267+01			111	378
-5.284+01	-9.926+01	-1.414+02	-2.067+02	-2.797+02	-3.576+02	-4.215+02	-4.767+02			112	379
-5.145+02	-5.313+02	-5.250+02	-4.959+02	-4.470+02	-3.826+02	-3.087+02	-2.303+02			113	380
-1.524+02	-7.662+01	-1.193+01	4.494+01	9.044+01	1.249+02	1.506+02	1.714+02			114	381
1.912+02	2.127+02	2.361+02	2.596+02	2.809+02	2.979+02	3.091+02	3.118+02			115	382
3.029+02	2.794+02	2.401+02	1.870+02	1.260+02	6.573+01	1.620+01	-1.460+01			116	383
-2.178+01	-3.027+00	4.141+01	1.089+02	1.950+02	2.936+02	3.977+02	4.966+02			117	384
5.895+02	6.419+02	6.756+02	6.832+02	6.624+02	6.166+02	5.495+02	4.662+02			118	385
3.747+02	2.832+02	1.978+02	1.278+02	5.981+01	9.284+00	-2.954+01	-5.790+01			119	386
-7.727+01	-8.945+01	-9.658+01	-1.014+02	-1.071+02	-1.154+02	-1.265+02	-1.387+02			120	387
-1.490+02	-1.541+02	-1.526+02	-1.456+02	-1.363+02	-1.276+02	-1.206+02	-1.150+02			121	388
-1.113+02	-1.110+02	-1.146+02	-1.213+02	-1.298+02	-1.386+02	-1.470+02	-1.530+02			122	389
-1.565+02	-1.579+02	-1.572+02	-1.543+02	-1.491+02	-1.422+02	-1.348+02	-1.290+02			123	390
-1.265+02	-1.288+02	-1.366+02	-1.493+02	-1.645+02	-1.796+02	-1.935+02	-2.050+02			124	391
-2.116+02	-2.098+02	-1.969+02	-1.725+02	-1.391+02	-9.997+01	-5.655+01	-9.776+00			125	392
3.784+01	8.144+01	1.163+02	1.390+02	1.464+02	1.362+02	1.072+02	5.936+01			126	393
-4.192+00	-7.027+01	-1.574+02	-2.360+02	-3.074+02	-3.653+02	-4.043+02	-4.217+02			127	394
-4.169+02	-3.908+02	-3.461+02	-2.876+02	-2.216+02	-1.534+02	-8.709+01	-2.555+01			128	395
2.874+01	7.272+01	1.042+02	1.228+02	1.295+02	1.257+02	1.125+02	9.173+01			129	396
6.504+01	3.395+01	-1.011+00	-3.928+01	-7.825+01	-1.145+02	-1.429+02	-1.613+02			130	397
-1.678+02	-1.612+02	-1.410+02	-1.080+02	-6.292+01	-6.806+00	5.920+01	1.330+02			131	398
2.108+02	2.876+02	3.580+02	4.173+02	4.619+02	4.894+02	4.994+02	4.903+02			132	399
4.629+02	4.190+02	3.620+02	2.958+02	2.246+02	1.540+02	8.966+01	3.651+01			133	400

INPUT REPEAT										CARD NO.
-1.542+00	-2.133+01	-2.067+01	7.656-01	4.080+01	9.541+01	1.596+02	2.275+02	134		401
2.925+02	3.487+02	3.914+02	4.165+02	4.207+02	4.023+02	3.619+02	3.024+02	135		402
2.278+02	1.423+02	5.051+01	-4.272+01	-1.320+02	-2.130+02	-2.823+02	-3.374+02	136		403
-3.768+02	-4.006+02	-4.100+02	-4.066+02	-3.920+02	-3.681+02	-3.373+02	-3.026+02	137		404
-2.670+02	-2.328+02	-2.015+02	-1.733+02	-1.472+02	-1.220+02	-9.679+01	-7.151+01	138		405
-4.707+01	-2.464+01	-4.584+00	1.338+01	2.977+01	4.464+01	5.658+01	6.297+01	139		406
6.126+01	4.984+01	2.859+01	-1.104+00	-3.757+01	-7.932+01	-1.246+02	-1.704+02	140		407
-2.128+02	-2.474+02	-2.701+02	-2.768+02	-2.653+02	-2.340+02	-1.859+02	-1.205+02	141		408
-4.237+01	4.279+01	1.277+02	2.630+02	2.651+02	3.055+02	3.224+02	3.150+02	142		409
2.850+02	2.361+02	1.727+02	1.010+02	2.011+01	-3.791+01	-8.974+01	-1.223+02	143		410
-1.337+02	-1.255+02	-1.012+02	-6.456+01	-2.061+01	2.462+01	6.484+01	9.525+01	144		411
1.136+02	1.193+02	1.131+02	9.655+01	7.223+01	4.348+01	1.397+01	-1.305+01	145		412
-3.521+01	-5.130+01	-6.134+01	-6.629+01	-6.746+01	-6.682+01	-6.684+01	-6.938+01	146		413
-7.514+01	-9.402+01	-9.532+01	-1.081+02	-1.211+02	-1.316+02	-1.365+02	-1.334+02	147		414
-1.216+02	-1.042+02	-9.452+01	-6.662+01	-5.339+01	-4.701+01	-4.952+01	-6.223+01	148		415
-8.466+01	-1.145+02	-1.482+02	-1.825+02	-2.144+02	-2.417+02	-2.617+02	-2.715+02	149		416
-2.663+02	-2.505+02	-2.188+02	-1.771+02	-1.301+02	-8.241+01	-3.815+01	0.000	150		417

MCOCO SIMULATION-1/5 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1 CARD 1

PRINT INTERVAL = 500
 NO. OF COLUMNS = 10
 NO. OF PLOTS = 1
 A RESTART DECK WILL BE PUNCHED.
 NO RESTART DECK WILL BE READ.

INTEGRATION STARTING TIME= 1.0000
 INTEGRATION ENDING TIME = 1.0100
 INTEGRATION TIME STEP = .000020
 CENTRAL DIFFERENCE INTEGRATION METHOD IS USED 0

TOTAL NUMBER OF COLUMNS, NCOL, = 10
 TOTAL NUMBER OF EQUATIONS FOR FUEL ELEMENTS = 324

NEPAX = 14
 NCOLI = 9
 NINT = 11

COLUMN NO. 1 HAS 6 BLOCKS

COLUMN NO. 2 HAS 6 BLOCKS

COLUMN NO. 3 HAS 14 BLOCKS

COLUMN NO. 4 HAS 14 BLOCKS

COLUMN NO. 5 HAS 14 BLOCKS

COLUMN NO. 6 HAS 14 BLOCKS

COLUMN NO. 7 HAS 14 BLOCKS

COLUMN NO. 8 HAS 14 BLOCKS

COLUMN NO. 9 HAS 6 BLOCKS

COLUMN NO. 10 HAS 6 BLOCKS

EQUATION NUMBERING SYSTEM

FUEL COLUMNS AND REFLECTOR COLUMNS

COL			
1	1	7	13
	2	8	14
	3	9	15
	4	10	16
	5	11	17
	6	12	18

COL 2	19	25	31
	20	26	32
	21	27	33
	22	28	34
	23	29	35
	24	30	36
COL 3	37	51	65
	38	52	66
	39	53	67
	40	54	68
	41	55	69
	42	56	70
	43	57	71
	44	58	72
	45	59	73
	46	60	74
	47	61	75
	48	62	76
	49	63	77
	50	64	78
COL 4	79	93	107
	80	94	108
	81	95	109
	82	96	110
	83	97	111
	84	98	112
	85	99	113
	86	100	114
	87	101	115
	88	102	116
	89	103	117
	90	104	118
	91	105	119
	92	106	120
COL 5	121	135	149
	122	136	150
	123	137	151
	124	138	152
	125	139	153
	126	140	154
	127	141	155
	128	142	156
	129	143	157
	130	144	158
	131	145	159
	132	146	160
	133	147	161
	134	148	162
COL			

6	163	177	191
	164	178	192
	165	179	193
	166	180	194
	167	181	195
	168	182	196
	169	183	197
	170	184	198
	171	185	199
	172	186	200
	173	187	201
	174	188	202
	175	189	203
	176	190	204
COL			
7	205	219	233
	206	220	234
	207	221	235
	208	222	236
	209	223	237
	210	224	238
	211	225	239
	212	226	240
	213	227	241
	214	228	242
	215	229	243
	216	230	244
	217	231	245
	218	232	246
COL			
8	247	261	275
	248	262	276
	249	263	277
	250	264	278
	251	265	279
	252	266	280
	253	267	281
	254	268	282
	255	269	283
	256	270	284
	257	271	285
	258	272	286
	259	273	287
	260	274	288
COL			
9	289	295	301
	290	296	302
	291	297	303
	292	298	304
	293	299	305
	294	300	306
COL			
10	307	313	319

	308	314	320
	309	315	321
	310	316	322
	311	317	323
	312	318	324
11	325	329	333
	326	330	334
	327	331	335
	328	332	336

TOTAL NUMBER OF EQUATIONS (NO. OF QST,NDINT) = 336

NUMBER OF BLOCK TYPE = 6
NUMBER OF GAP TYPE = 3

GAP TYPE	GAP VALUE, INCH
1	.011
2	.068
3	.000

ELEM TYPE	WIDTH, IN	HEIGHT, IN	WEIGHT, LB
1	5.700	11.968	26.200
2	2.830	6.240	6.150
3	2.830	3.120	3.070
4	2.830	4.680	4.610
5	.500	11.968	21.300
6	2.830	3.120	2.630

AT COL-TO-COL INTERFACE NO. 2
THE GAPS ARE (ACCORDING TO ELEM NUMBERS ON LEFT)
.0000 .0000 .0000 .0000 .0000 .0000

AT COL-TO-COL INTERFACE NO. 3
THE GAPS ARE (ACCORDING TO ELEM NUMBERS ON LEFT)
.0110 .0110 .0110 .0110 .0110 .0110 .0110 .0110 .0110 .0110 .0110 .0110
.0110

AT COL-TO-COL INTERFACE NO. 4
THE GAPS ARE (ACCORDING TO ELEM NUMBERS ON LEFT)
.0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680
.0680

AT COL-TO-COL INTERFACE NO. 5
THE GAPS ARE (ACCORDING TO ELEM NUMBERS ON LEFT)
.0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680
.0680

AT COL-TO-COL INTERFACE NO. 6
THE GAPS ARE (ACCORDING TO ELEM NUMBERS ON LEFT)

.0110 .0110 .0110 .0110 .0110 .0110 .0110 .0110 .0110 .0110 .0110 .0110 .0110
.0110

AT COL-TO-COL INTERFACE NO. 7

THE GAPS ARE (ACCORDING TO ELEM NUMBERS ON LEFT)

.0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680
.0680

AT COL-TO-COL INTERFACE NO. 8

THE GAPS ARE (ACCORDING TO ELEM NUMBERS ON LEFT)

.0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680
.0680

AT COL-TO-COL INTERFACE NO. 9

THE GAPS ARE (ACCORDING TO ELEM NUMBERS ON LEFT)

.0110 .0110 .0110 .0110 .0110 .0110

AT COL-TO-COL INTERFACE NO. 10

THE GAPS ARE (ACCORDING TO ELEM NUMBERS ON LEFT)

.0000 .0000 .0000 .0000 .0000 .0000

COLUMN NO. 1, 6 ELEMENTS

ELEMENT WEIGHTS FOR COLUMN NO. 1

21.30 21.30 21.30 21.30 21.30 21.30

ELEMENT HALF WIDTH, B(1C)= .25

ELEMENT HALF LENGTH, H(1)

5.98 5.98 5.98 5.98 5.98 5.98

ELEMENT MASSES

.5512-01 .5512-01 .5512-01 .5512-01 .5512-01 .5512-01

ELEMENT ROTARY INERTIA

.6591+00 .6591+00 .6591+00 .6591+00 .6591+00 .6591+00

TOTAL WEIGHT FOR THIS COLUMN = 127.80 LBS

VERTICAL PRELOAD= .00 LBS

COLUMN NO. 2, 6 ELEMENTS

ELEMENT WEIGHTS FOR COLUMN NO. 2

26.20 26.20 26.20 26.20 26.20 26.20

ELEMENT HALF WIDTH, B(1C)= 2.85

ELEMENT HALF LENGTH, H(1)

5.98 5.98 5.98 5.98 5.98 5.98

ELEMENT MASSES

.6781-01 .6781-01 .6781-01 .6781-01 .6781-01 .6781-01

ELEMENT ROTARY INERTIA

.9929+00 .9929+00 .9929+00 .9929+00 .9929+00 .9929+00

TOTAL WEIGHT FOR THIS COLUMN = 157.20 LBS
VERTICAL PRELOAD= .00 LBS

COLUMN NO. 3, 14 ELEMENTS

ELEMENT WEIGHTS FOR COLUMN NO. 3

3.07 3.07 3.07 6.15 6.15 6.15 6.15 6.15 6.15
6.15 3.07 6.15 2.63

ELEMENT HALF WIDTH, B(1C)= 1.42

ELEMENT HALF LENGTH, H(1)

1.56 1.56 1.56 3.12 3.12 3.12 3.12 3.12 3.12
3.12 1.56 3.12 1.56

ELEMENT MASSES

.7945-02 .7945-02 .7945-02 .1592-01 .1592-01 .1592-01 .1592-01 .1592-01 .1592-01 .1592-01
.1592-01 .7945-02 .1592-01 .6806-02

ELEMENT ROTARY INERTIA

.1175-01 .1175-01 .1175-01 .6227-01 .6227-01 .6227-01 .6227-01 .6227-01 .6227-01 .6227-01
.6227-01 .1175-01 .6227-01 .1006-01

TOTAL WEIGHT FOR THIS COLUMN = 70.26 LBS
VERTICAL PRELOAD= .00 LBS

COLUMN NO. 4, 14 ELEMENTS

ELEMENT WEIGHTS FOR COLUMN NO. 4

4.61 3.07 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15
3.07 4.61 3.07 2.63

ELEMENT HALF WIDTH, B(1C)= 1.42

ELEMENT HALF LENGTH, H(1)

2.34 1.56 3.12 3.12 3.12 3.12 3.12 3.12 3.12 3.12
1.56 2.34 1.56 1.56

ELEMENT MASSES

.1193-01 .7945-02 .1592-01 .1592-01 .1592-01 .1592-01 .1592-01 .1592-01 .1592-01 .1592-01
.7945-02 .1193-01 .7945-02 .6806-02

ELEMENT ROTARY INERTIA

.2974-01 .1175-01 .6227-01 .6227-01 .6227-01 .6227-01 .6227-01 .6227-01 .6227-01 .6227-01
.1175-01 .2974-01 .1175-01 .1006-01

TOTAL WEIGHT FOR THIS COLUMN = 70.26 LBS
VERTICAL PRELOAD= .00 LBS

COLUMN NO. 5, 14 ELEMENTS

ELEMENT WEIGHTS FOR COLUMN NO. 5

3.07	3.07	3.07	6.15	6.15	6.15	6.15	6.15	6.15
6.15	3.07	6.15	2.63					

ELEMENT HALF WIDTH, B(ITC)= 1.42

ELEMENT HALF LENGTH, H(IT)

1.56	1.56	1.56	3.12	3.12	3.12	3.12	3.12	3.12
3.12	1.56	3.12	1.56					

ELEMENT MASSES

.7945-02	.7945-02	.7945-02	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01
.1592-01	.7945-02	.1592-01	.6806-02						

ELEMENT ROTARY INERTIA

.1175-01	.1175-01	.1175-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01
.6227-01	.1175-01	.6227-01	.1006-01						

TOTAL WEIGHT FOR THIS COLUMN = 70.26 LBS

VERTICAL PRELOAD= .00 LBS

COLUMN NO. 6, 14 ELEMENTS

ELEMENT WEIGHTS FOR COLUMN NO. 6

3.07	3.07	3.07	6.15	6.15	6.15	6.15	6.15	6.15
6.15	3.07	6.15	2.63					

ELEMENT HALF WIDTH, B(ITC)= 1.42

ELEMENT HALF LENGTH, H(IT)

1.56	1.56	1.56	3.12	3.12	3.12	3.12	3.12	3.12
3.12	1.56	3.12	1.56					

ELEMENT MASSES

.7945-02	.7945-02	.7945-02	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01
.1592-01	.7945-02	.1592-01	.6806-02						

ELEMENT ROTARY INERTIA

.1175-01	.1175-01	.1175-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01
.6227-01	.1175-01	.6227-01	.1006-01						

TOTAL WEIGHT FOR THIS COLUMN = 70.26 LBS

VERTICAL PRELOAD= .00 LBS

COLUMN NO. 7, 14 ELEMENTS

ELEMENT WEIGHTS FOR COLUMN NO. 7

4.61	3.07	6.15	6.15	6.15	6.15	6.15	6.15	6.15
3.07	4.61	3.07	2.63					

ELEMENT HALF WIDTH, B(ITC)= 1.42

ELEMENT HALF LENGTH, H(I)

2.34	1.56	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12
1.56	2.34	1.56	1.56						

ELEMENT MASSES

.1193-01	.7945-02	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01
.7945-02	.1193-01	.7945-02	.6806-02						

ELEMENT ROTARY INERTIA

.2974-01	.1175-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01
.1175-01	.2974-01	.1175-01	.1006-01						

TOTAL WEIGHT FOR THIS COLUMN = 70.26 LBS
 VERTICAL PRELOAD = .00 LBS

COLUMN NO. 8, 14 ELEMENTS

ELEMENT WEIGHTS FOR COLUMN NO. 8

3.07	3.07	3.07	6.15	6.15	6.15	6.15	6.15	6.15	6.15
6.15	3.07	6.15	2.63						

ELEMENT HALF WIDTH, B(IIC) = 1.42

ELEMENT HALF LENGTH, H(I)

1.56	1.56	1.56	3.12	3.12	3.12	3.12	3.12	3.12	3.12
3.12	1.56	3.12	1.56						

ELEMENT MASSES

.7945-02	.7945-02	.7945-02	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01
.1592-01	.7945-02	.1592-01	.6806-02						

ELEMENT ROTARY INERTIA

.1175-01	.1175-01	.1175-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01
.6227-01	.1175-01	.6227-01	.1006-01						

TOTAL WEIGHT FOR THIS COLUMN = 70.26 LBS
 VERTICAL PRELOAD = .00 LBS

COLUMN NO. 9, 6 ELEMENTS

ELEMENT WEIGHTS FOR COLUMN NO. 9

26.20	26.20	26.20	26.20	26.20	26.20
-------	-------	-------	-------	-------	-------

ELEMENT HALF WIDTH, B(IIC) = 2.85

ELEMENT HALF LENGTH, H(I)

5.98	5.98	5.98	5.98	5.98	5.98
------	------	------	------	------	------

ELEMENT MASSES

.6781-01	.6781-01	.6781-01	.6781-01	.6781-01	.6781-01
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ELEMENT ROTARY INERTIA

.9929+00 .9929+00 .9929+00 .9929+00 .9929+00 .9929+00

TOTAL WEIGHT FOR THIS COLUMN = 157.20 LBS
VERTICAL PRELOAD= .00 LBS

COLUMN NO.10, 6 ELEMENTS

ELEMENT WEIGHTS FOR COLUMN NO.10
21.30 21.30 21.30 21.30 21.30 21.30

ELEMENT HALF WIDTH, P(1C)= .25

ELEMENT HALF LENGTH, H(1L)
5.98 5.98 5.98 5.98 5.98 5.98

ELEMENT MASSES
.5512-01 .5512-01 .5512-01 .5512-01 .5512-01 .5512-01

ELEMENT ROTARY INERTIA
.6591+00 .6591+00 .6591+00 .6591+00 .6591+00 .6591+00

TOTAL WEIGHT FOR THIS COLUMN = 127.80 LBS
VERTICAL PRELOAD= .00 LBS

PARAMETERS FOR SPRINGS AND DAMPERS

K VALUE OF VERTICAL SPRINGS = .297*06
 C VALUE OF VERTICAL SPRING= 21.25
 K OF LATERAL SPRING= .246*06
 C OF LATERAL DAMPER= 19.36
 DOWEL GAP(RIGHT)= .0000
 DOWEL GAP(LEFT)= .0000
 DOWEL K = .238*05
 DOWEL DAMPING CONSTANT, CDW= 1.8660
 CCEFF. OF FRICTION= .20
 CONSTANT FOR INITIAL SLOPE OF COULOMB FRICTION= .400*02

K OF CENTER SPRING, VERTICAL, = .000
 C OF CENTER SPRING, VERTICAL, = .00

CSLU= .000
 CSLW= .000
 CSCT= .000

PARAMETERS FOR BILINEAR SPRINGS

K1 = .80000*03
 K2 = .56000*06
 CSP = .13100*01
 DISTANCE TRAVELLED BEFORE K2 BECOMES EFFECTIVE = .20 INCH
 NOTE THAT K2 MUST BE GREATER THAN K1

RIGHT HAND SPRING PACK GAPS
 .0000 .0000 .0000 .0000 .0000 .0000

LEFT HAND SPRING PACK GAPS
 .0000 .0000 .0000 .0000 .0000 .0000

ROTATIONAL SPRING RATE = .00000 IN-LB/RAD
 KEYWAY CONSTRAINT SPRING RATE = .00000 LB/IN
 SICE REFLTR CONSTRAINT SPRING RATE= .00000 LB/IN

FUEL ELEMENT STAGGERING PATTERN

INTRCN FORCE NUMBER	ELEM NO		OFFSET	
	LEFT	RIGHT	LEFT	RIGHT
AT THE 2 ND COL-TO-COL INTERFACE				
1 1 1	1	1	-1.00	-1.00
2 2 2	1	1	1.00	1.00
3 3 3	2	2	-1.00	-1.00
4 4 4	2	2	1.00	1.00
5 5 5	3	3	-1.00	-1.00
6 6 6	3	3	1.00	1.00
7 7 7	4	4	-1.00	-1.00
8 8 8	4	4	1.00	1.00
9 9 9	5	5	-1.00	-1.00
10 10 10	5	5	1.00	1.00
11 11 11	6	6	-1.00	-1.00
12 12 12	6	6	1.00	1.00
AT THE 3 RD COL-TO-COL INTERFACE				
1 1 1	1	1	1.00	-.48
2 2 1	2	1	-1.00	-.48
3 3 2	2	1	1.00	.04
4 4 2	3	1	-1.00	.04
5 5 3	3	1	1.00	.56
6 6 3	4	1	-1.00	.56
7 7 4	4	1	-.16	1.00
8 7 5	4	2	-.16	-1.00
9 8 6	4	2	1.00	-.39
10 9 6	5	2	-1.00	-.39
11 10 7	5	2	1.00	.65
12 11 7	6	2	-1.00	.65
13 12 8	6	2	-.33	1.00
14 12 9	6	3	-.33	-1.00
15 13 10	6	3	1.00	-.31
16 14 10	7	3	-1.00	-.31
17 15 11	7	3	1.00	.73
18 16 11	8	3	-1.00	.73
19 17 12	8	3	-.49	1.00
20 17 13	8	4	-.49	-1.00
21 18 14	8	4	1.00	-.22
22 19 14	9	4	-1.00	-.22
23 20 15	9	4	1.00	.82
24 21 15	10	4	-1.00	.82
25 22 16	10	4	-.66	1.00
26 22 17	10	5	-.66	-1.00
27 23 16	10	5	1.00	-.14
28 24 18	11	5	-1.00	-.14
29 25 19	11	5	1.00	.91
30 26 19	12	5	-1.00	.91
31 27 20	12	5	-.64	1.00
32 27 21	12	6	-.64	-1.00

33	28	22	12	6	1.00	-.57
34	29	22	13	6	-1.00	-.57
35	30	23	13	6	1.00	.47
36	31	23	14	6	-1.00	.47
37	32	24	14	6	1.00	1.00

AT THE 4 TH COL-TO-COL INTERFACE

1	1	1	1	1	.33	-1.00
2	1	2	1	2	.33	-1.00
3	2	3	1	2	1.00	.00
4	3	3	2	2	-1.00	.00
5	4	4	2	2	.00	1.00
6	4	5	2	3	.00	-1.00
7	5	6	2	3	1.00	.00
8	6	6	3	3	-1.00	.00
9	7	7	3	3	-.50	1.00
10	7	8	3	4	-.50	-1.00
11	8	9	3	4	1.00	.50
12	9	9	4	4	-1.00	.50
13	10	10	4	4	-.50	1.00
14	10	11	4	5	-.50	-1.00
15	11	12	4	5	1.00	.50
16	12	12	5	5	-1.00	.50
17	13	13	5	5	-.50	1.00
18	13	14	5	6	-.50	-1.00
19	14	15	5	6	1.00	.50
20	15	15	6	6	-1.00	.50
21	16	16	6	6	-.50	1.00
22	16	17	6	7	-.50	-1.00
23	17	18	6	7	1.00	.50
24	18	18	7	7	-1.00	.50
25	19	19	7	7	-.50	1.00
26	19	20	7	8	-.50	-1.00
27	20	21	7	8	1.00	.50
28	21	21	8	8	-1.00	.50
29	22	22	8	8	-.50	1.00
30	22	23	8	9	-.50	-1.00
31	23	24	8	9	1.00	.50
32	24	24	9	9	-1.00	.50
33	25	25	9	9	-.50	1.00
34	25	26	9	10	-.50	-1.00
35	26	27	9	10	1.00	.50
36	27	27	10	10	-1.00	.50
37	28	28	10	10	-.50	1.00
38	28	29	10	11	-.50	-1.00
39	29	30	10	11	1.00	.50
40	30	30	11	11	-1.00	.50
41	31	31	11	11	.00	1.00
42	31	32	11	12	.00	-1.00
43	32	33	11	12	1.00	.00
44	33	33	12	12	-1.00	.00
45	34	34	12	12	-.33	1.00
46	34	35	12	13	-.33	-1.00
47	35	36	12	13	1.00	.00
48	36	36	13	13	-1.00	.00

49	37	37	13	13	1.00	1.00
50	38	38	14	14	-1.00	-1.00
51	39	39	14	14	1.00	1.00

AT THE 5 TH COL-TO-COL INTERFACE

1	1	1	1	1	1.00	.33
2	2	1	2	1	-1.00	.33
3	3	2	2	1	.00	1.00
4	3	3	2	2	.00	-1.00
5	4	4	2	2	1.00	.00
6	5	4	3	2	-1.00	.00
7	6	5	3	2	.00	1.00
8	6	6	3	3	.00	-1.00
9	7	7	3	3	1.00	-.50
10	8	7	4	3	-1.00	-.50
11	9	8	4	3	.50	1.00
12	9	9	4	4	.50	-1.00
13	10	10	4	4	1.00	-.50
14	11	10	5	4	-1.00	-.50
15	12	11	5	4	.50	1.00
16	12	12	5	5	.50	-1.00
17	13	13	5	5	1.00	-.50
18	14	13	6	5	-1.00	-.50
19	15	14	6	5	.50	1.00
20	15	15	6	6	.50	-1.00
21	16	16	6	6	1.00	-.50
22	17	16	7	6	-1.00	-.50
23	18	17	7	6	.50	1.00
24	18	18	7	7	.50	-1.00
25	19	19	7	7	1.00	-.50
26	20	19	8	7	-1.00	-.50
27	21	20	8	7	.50	1.00
28	21	21	8	8	.50	-1.00
29	22	22	8	8	1.00	-.50
30	23	22	9	8	-1.00	-.50
31	24	23	9	8	.50	1.00
32	24	24	9	9	.50	-1.00
33	25	25	9	9	1.00	-.50
34	26	25	10	9	-1.00	-.50
35	27	26	10	9	.50	1.00
36	27	27	10	10	.50	-1.00
37	28	28	10	10	1.00	-.50
38	29	29	11	10	-1.00	-.50
39	30	29	11	10	.50	1.00
40	30	30	11	11	.50	-1.00
41	31	31	11	11	1.00	.00
42	32	31	12	11	-1.00	.00
43	33	32	12	11	.00	1.00
44	33	33	12	12	.00	-1.00
45	34	34	12	12	1.00	-.33
46	35	34	13	12	-1.00	-.33
47	36	35	13	12	.00	1.00
48	36	36	13	13	.00	-1.00
49	37	37	13	13	1.00	1.00
50	38	38	14	14	-1.00	-1.00

51	39	39	14	14	1.00	1.00
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AT THE 6 TH COL-TO-COL INTERFACE

1	1	1	1	1	1.00	1.00
2	2	2	2	2	-1.00	-1.00
3	3	3	2	2	1.00	1.00
4	4	4	3	3	-1.00	-1.00
5	5	5	3	3	1.00	1.00
6	6	6	4	4	-1.00	-1.00
7	7	7	4	4	1.00	1.00
8	8	8	5	5	-1.00	-1.00
9	9	9	5	5	1.00	1.00
10	10	10	6	6	-1.00	-1.00
11	11	11	6	6	1.00	1.00
12	12	12	7	7	-1.00	-1.00
13	13	13	7	7	1.00	1.00
14	14	14	8	8	-1.00	-1.00
15	15	15	8	8	1.00	1.00
16	16	16	9	9	-1.00	-1.00
17	17	17	9	9	1.00	1.00
18	18	18	10	10	-1.00	-1.00
19	19	19	10	10	1.00	1.00
20	20	20	11	11	-1.00	-1.00
21	21	21	11	11	1.00	1.00
22	22	22	12	12	-1.00	-1.00
23	23	23	12	12	1.00	1.00
24	24	24	13	13	-1.00	-1.00
25	25	25	13	13	1.00	1.00
26	26	26	14	14	-1.00	-1.00
27	27	27	14	14	1.00	1.00

AT THE 7 TH COL-TO-COL INTERFACE

1	1	1	1	1	.33	1.00
2	1	2	1	2	.33	-1.00
3	2	3	1	2	1.00	.00
4	3	3	2	2	-1.00	.00
5	4	4	2	2	.00	1.00
6	4	5	2	3	.00	-1.00
7	5	6	2	3	1.00	.00
8	6	6	3	3	-1.00	.00
9	7	7	3	3	-.50	1.00
10	7	8	3	4	-.50	-1.00
11	8	9	3	4	1.00	.50
12	9	9	4	4	-1.00	.50
13	10	10	4	4	-.50	1.00
14	10	11	4	5	-.50	-1.00
15	11	12	4	5	1.00	.50
16	12	12	5	5	-1.00	.50
17	13	13	5	5	-.50	1.00
18	13	14	5	6	-.50	-1.00
19	14	15	5	6	1.00	.50
20	15	15	6	6	-1.00	.50
21	16	16	6	6	-.50	1.00

22	16	17	6	7	-.50	-1.00
23	17	18	6	7	1.00	.50
24	18	18	7	7	-1.00	.50
25	19	19	7	7	-.50	1.00
26	19	20	7	8	-.50	-1.00
27	20	21	7	8	1.00	.50
28	21	21	8	8	-1.00	.50
29	22	22	8	8	-.50	1.00
30	22	23	8	9	-.50	-1.00
31	23	24	8	9	1.00	.50
32	24	24	9	9	-1.00	.50
33	25	25	9	9	-.50	1.00
34	25	26	9	10	-.50	-1.00
35	26	27	9	10	1.00	.50
36	27	27	10	10	-1.00	.50
37	28	28	10	10	-.50	1.00
38	28	29	10	11	-.50	-1.00
39	29	30	10	11	1.00	.50
40	30	30	11	11	-1.00	.50
41	31	31	11	11	.00	1.00
42	31	32	11	12	.00	-1.00
43	32	33	11	12	1.00	.00
44	33	33	12	12	-1.00	.00
45	34	34	12	12	-.33	1.00
46	34	35	12	13	-.33	-1.00
47	35	36	12	13	1.00	.00
48	36	36	13	13	-1.00	.00
49	37	37	13	13	1.00	1.00
50	38	38	14	14	-1.00	-1.00
51	39	39	14	14	1.00	1.00

AT THE 8 TH COL-TO-COL INTERFACE

1	1	1	1	1	1.00	.33
2	2	1	2	1	-1.00	.33
3	3	2	2	1	.00	1.00
4	3	3	2	2	.00	-1.00
5	4	4	2	2	1.00	.00
6	5	4	3	2	-1.00	.00
7	6	5	3	2	.00	1.00
8	6	6	3	3	.00	-1.00
9	7	7	3	3	1.00	-.50
10	8	7	4	3	-1.00	-.50
11	9	8	4	3	.50	1.00
12	9	9	4	4	.50	-1.00
13	10	10	4	4	1.00	-.50
14	11	10	5	4	-1.00	-.50
15	12	11	5	4	.50	1.00
16	12	12	5	5	.50	-1.00
17	13	13	5	5	1.00	-.50
18	14	13	6	5	-1.00	-.50
19	15	14	6	5	.50	1.00
20	15	15	6	6	.00	-1.00
21	16	16	6	6	1.00	-.50
22	17	16	7	6	-1.00	-.50
23	18	17	7	6	.50	1.00

24	18	18	7	7	.50	-1.00
25	19	19	7	7	1.00	-.50
26	20	19	8	7	-1.00	-.50
27	21	20	8	7	.50	1.00
28	21	21	8	8	.50	-1.00
29	22	22	8	8	1.00	-.50
30	23	22	9	8	-1.00	-.50
31	24	23	9	8	.50	1.00
32	24	24	9	9	.50	-1.00
33	25	25	9	9	1.00	-.50
34	26	25	10	9	-1.00	-.50
35	27	26	10	9	.50	1.00
36	27	27	10	10	.50	-1.00
37	28	28	10	10	1.00	-.50
38	29	28	11	10	-1.00	-.50
39	30	29	11	10	.50	1.00
40	30	30	11	11	.50	-1.00
41	31	31	11	11	1.00	.00
42	32	31	12	11	-1.00	.00
43	33	32	12	11	.00	1.00
44	33	33	12	12	.00	-1.00
45	34	34	12	12	1.00	-.33
46	35	34	13	12	-1.00	-.33
47	36	35	13	12	.00	1.00
48	36	36	13	13	.00	-1.00
49	37	37	13	13	1.00	1.00
50	38	38	14	14	-1.00	-1.00
51	39	39	14	14	1.00	1.00

AT THE 9 TH COL-TO-COL INTERFACE

1	1	1	1	1	-.48	1.00
2	1	2	1	2	-.48	-1.00
3	2	3	1	2	.04	1.00
4	2	4	1	3	.04	-1.00
5	3	5	1	3	.56	1.00
6	3	6	1	4	.56	-1.00
7	4	7	1	4	1.00	-.16
8	5	7	2	4	-1.00	-.16
9	6	8	2	4	-.39	1.00
10	6	9	2	5	-.39	-1.00
11	7	10	2	5	.65	1.00
12	7	11	2	6	.65	-1.00
13	8	12	2	6	1.00	-.33
14	9	12	3	6	-1.00	-.33
15	10	13	3	6	-.31	1.00
16	10	14	3	7	-.31	-1.00
17	11	15	3	7	.73	1.00
18	11	16	3	8	.73	-1.00
19	12	17	3	8	1.00	-.49
20	13	17	4	8	-1.00	-.49
21	14	18	4	8	-.22	1.00
22	14	19	4	9	-.22	-1.00
23	15	20	4	9	.82	1.00
24	15	21	4	10	.82	-1.00
25	16	22	4	10	1.00	-.66

26	17	22	5	10	-1.00	-.66
27	18	23	5	10	-.14	1.00
28	18	24	5	11	-.14	-1.00
29	19	25	5	11	.91	1.00
30	19	26	5	12	.91	-1.00
31	20	27	5	12	1.00	-.64
32	21	27	6	12	-1.00	-.64
33	22	28	6	12	-.57	1.00
34	22	29	6	13	-.57	-1.00
35	23	30	6	13	.47	1.00
36	23	31	6	14	.47	-1.00
37	24	32	6	14	1.00	1.00

AT THE 10 TH COL-TO-COL INTERFACE

1	1	1	1	1	-1.00	-1.00
2	2	2	1	1	1.00	1.00
3	3	3	2	2	-1.00	-1.00
4	4	4	2	2	1.00	1.00
5	5	5	3	3	-1.00	-1.00
6	6	6	3	3	1.00	1.00
7	7	7	4	4	-1.00	-1.00
8	8	8	4	4	1.00	1.00
9	9	9	5	5	-1.00	-1.00
10	10	10	5	5	1.00	1.00
11	11	11	6	6	-1.00	-1.00
12	12	12	6	6	1.00	1.00

FUEL ELEMENTS IN COLUMN NO. 1

VERTICAL CORNER SPRING CONSTANTS

1.2653+06 1.2653+06 1.2653+06 1.2653+06 1.2653+06 1.2653+06

VERTICAL CORNER DAMPING COEFFICIENTS

9.0529+01 9.0529+01 9.0529+01 9.0529+01 9.0529+01 9.0529+01

VERTICAL CENTER SPRING CONSTANTS

0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

VERTICAL CENTER DAMPING COEFFICIENT

0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

FUEL ELEMENTS IN COLUMN NO. 2

VERTICAL CORNER SPRING CONSTANTS

1.2653+06 1.2653+06 1.2653+06 1.2653+06 1.2653+06 1.2653+06

VERTICAL CORNER DAMPING COEFFICIENTS

9.0529+01 9.0529+01 9.0529+01 9.0529+01 9.0529+01 9.0529+01

VERTICAL CENTER SPRING CONSTANTS

0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

VERTICAL CENTER DAMPING COEFFICIENT

0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

FUEL ELEMENTS IN COLUMN NO. 3

VERTICAL CORNER SPRING CONSTANTS

5.9400+05	5.9400+05	5.9400+05	3.9599+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05
2.9700+05	3.9599+05	3.9599+05	3.7511+05							

VERTICAL CORNER DAMPING COEFFICIENTS

2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01
2.1250+01	2.1250+01	2.1250+01	1.9592+01							

VERTICAL CENTER SPRING CONSTANTS

0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000							

VERTICAL CENTER DAMPING COEFFICIENT

0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000							

FUEL ELEMENTS IN COLUMN NO. 4

VERTICAL CORNER SPRING CONSTANTS

3.9599+05	4.7520+05	3.9599+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05
3.9599+05	4.7520+05	4.7520+05	5.4856+05							

VERTICAL CORNER DAMPING COEFFICIENTS

2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01
2.1250+01	2.1250+01	2.1250+01	1.9592+01							

VERTICAL CENTER SPRING CONSTANTS

0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000							

VERTICAL CENTER DAMPING COEFFICIENT

0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000							

FUEL ELEMENTS IN COLUMN NO. 5

VERTICAL CORNER SPRING CONSTANTS

5.9400+05	5.9400+05	5.9400+05	3.9599+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05
2.9700+05	3.9599+05	3.9599+05	3.7511+05							

VERTICAL CORNER DAMPING COEFFICIENTS

2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01
2.1250+01	2.1250+01	2.1250+01	1.9592+01							

VERTICAL CENTER SPRING CONSTANTS

0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000							

VERTICAL CENTER DAMPING COEFFICIENT

0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000							

FUEL ELEMENTS IN COLUMN NO. 6

VERTICAL CORNER SPRING CONSTANTS

5.9400+05	5.9400+05	5.9400+05	3.9599+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05
2.9700+05	3.9599+05	3.9599+05	3.7511+05						

VERTICAL CORNER DAMPING COEFFICIENTS

2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01
2.1250+01	2.1250+01	2.1250+01	1.9592+01						

VERTICAL CENTER SPRING CONSTANTS

0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000						

VERTICAL CENTER DAMPING COEFFICIENT

0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000						

FUEL ELEMENTS IN COLUMN NO. 7

VERTICAL CORNER SPRING CONSTANTS

3.9599+05	4.7520+05	3.9599+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05
3.9599+05	4.7520+05	4.7520+05	5.4056+05						

VERTICAL CORNER DAMPING COEFFICIENTS

2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01
2.1250+01	2.1250+01	2.1250+01	1.9592+01						

VERTICAL CENTER SPRING CONSTANTS

0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000						

VERTICAL CENTER DAMPING COEFFICIENT

0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000						

FUEL ELEMENTS IN COLUMN NO. 8

VERTICAL CORNER SPRING CONSTANTS

5.9400+05	5.9400+05	5.9400+05	3.9599+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05
2.9700+05	3.9599+05	3.9599+05	3.7511+05						

VERTICAL CORNER DAMPING COEFFICIENTS

2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01
2.1250+01	2.1250+01	2.1250+01	1.9592+01						

VERTICAL CENTER SPRING CONSTANTS

0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000						

VERTICAL CENTER DAMPING COEFFICIENT

0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000						

FUEL ELEMENTS IN COLUMN NO. 9

VERTICAL CORNER SPRING CONSTANTS

1.2653+06	1.2653+06	1.2653+06	1.2653+06	1.2653+06	1.2653+06
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VERTICAL CORNER DAMPING COEFFICIENTS

9.0529+01 9.0529+01 9.0529+01 9.0529+01 9.0529+01 9.0529+01

VERTICAL CENTER SPRING CONSTANTS

0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

VERTICAL CENTER DAMPING COEFFICIENT

0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

FULL ELEMENTS IN COLUMN NO.10

VERTICAL CORNER SPRING CONSTANTS

1.2653+06 1.2653+06 1.2653+06 1.2653+06 1.2653+06 1.2653+06

VERTICAL CORNER DAMPING COEFFICIENTS

9.0529+01 9.0529+01 9.0529+01 9.0529+01 9.0529+01 9.0529+01

VERTICAL CENTER SPRING CONSTANTS

0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

VERTICAL CENTER DAMPING COEFFICIENT

0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

AT COL-TO-COL INTERFACE NO. 2

HORIZONTAL SPRING CONSTANTS ARE

2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05

HORIZONTAL DAMPING COEFFICIENTS ARE

1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01

AT COL-TO-COL INTERFACE NO. 3

HORIZONTAL SPRING CONSTANTS ARE

1.2325+05 1.2325+05 1.2325+05 1.2325+05 1.2325+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05
2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05
2.4650+05 2.4650+05 1.2325+05 2.4650+05 2.4650+05 1.0575+05 1.0575+05

HORIZONTAL DAMPING COEFFICIENTS ARE

9.6800+00 9.6800+00 9.6800+00 9.6800+00 9.6800+00 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01
1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01
1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01
1.9360+01 1.9360+01 9.6800+00 1.9360+01 1.9360+01 8.3054+00 8.3054+00

AT COL-TO-COL INTERFACE NO. 4

HORIZONTAL SPRING CONSTANTS ARE

1.2325+05 1.2325+05 1.8487+05 1.2325+05 1.2325+05 1.2325+05 1.2325+05 2.4650+05 1.2325+05 2.4650+05
2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05
2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05
2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05
2.4650+05 1.2325+05 1.2325+05 1.8487+05 1.2325+05 2.4650+05 1.8487+05 1.2325+05 2.4650+05 1.0575+05
1.0575+05

HORIZONTAL DAMPING COEFFICIENTS ARE

AT COL-TO-COL INTERFACE NO. 5

1.2325+05	1.2325+05	1.8487+05	1.2325+05	1.2325+05	1.2325+05	1.2325+05	2.4650+05	1.2325+05	2.4650+05
2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05
2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05
2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	1.2325+05
2.4650+05	1.2325+05	1.2325+05	1.8487+05	1.2325+05	2.4650+05	1.8487+05	1.2325+05	2.4650+05	1.0575+05

[illegible]

1.2325+05	1.2325+05	1.2325C5	1.2325+05	1.2325+05	2.4650+05	2.4650+05	2.465L+05	2.4650+05	2.4650+05
2.4650+C5	2.4650+C5	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.465C+05	2.4650+05	2.4650+05	2.4650+05
2.465L+C5	1.2325+05	1.2325+05	2.4650+05	2.4650+05	1.0575+05	1.0575+05			

9.6100+00	9.6900+00	9.6800+00	9.6800+00	9.6800+00	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01
1.9560+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01
1.9360+01	1.9360+00	1.9360+00	1.9360+01	1.9360+01	8.3050+00	8.3050+00			

1.2325+05	1.2325+05	1.8487+05	1.2325+05	1.2325+05	1.2325+05	1.2325+05	2.4650+05	1.2325+05	2.4650+05
2.4650+05	2.46+0+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05
2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05
2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	1.2325+05
2.4650+05	1.2325+05	1.2325+05	1.8487+05	1.2325+05	2.4650+05	1.8487+05	1.2325+05	2.4650+05	1.0575+05

[illegible]

AT COL-TO-COL INTERFACE NO. 8

HORIZONTAL SPRING CONSTANTS ARE

1.2325+05	1.2325+05	1.8487+05	1.2325+05	1.2325+05	1.2325+05	1.2325+05	2.4650+05	1.2325+05	2.4650+05
2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05
2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05
2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	1.2325+05
2.4650+05	1.2325+05	1.2325+05	1.8487+05	1.2325+05	2.4650+05	1.8487+05	1.2325+05	2.4650+05	1.0575+05
1.0575+05									

HORIZONTAL DAMPING COEFFICIENTS ARE

9.6800+00	9.6800+00	1.4520+01	9.6800+00	9.6800+00	9.6800+00	9.6800+00	1.9360+01	9.6800+00	1.9360+01
1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01
1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01
1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	9.6800+00
1.9360+01	9.6800+00	9.6800+00	1.4520+01	9.6800+00	1.9360+01	1.4520+01	9.6800+00	1.9360+01	8.3054+00
8.3054+00									

AT COL-TO-COL INTERFACE NO. 9

HORIZONTAL SPRING CONSTANTS ARE

1.2325+05	1.2325+05	1.2325+05	1.2325+05	1.2325+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05
2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05
2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	1.2325+05
2.4650+05	2.4650+05	1.2325+05	2.4650+05	2.4650+05	1.0575+05	1.0575+05			

HORIZONTAL DAMPING COEFFICIENTS ARE

9.6800+00	9.6800+00	9.6800+00	9.6800+00	9.6800+00	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01
1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01
1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	9.6800+00
1.9360+01	1.9360+01	9.6800+00	1.9360+01	1.9360+01	8.3054+00	8.3054+00			

AT COL-TO-COL INTERFACE NO. 10

HORIZONTAL SPRING CONSTANTS ARE

2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05
2.4650+05	2.4650+05								

HORIZONTAL DAMPING COEFFICIENTS ARE

1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01
1.9360+01	1.9360+01								

CGRL SUPPORT BLOCK PARAMETERS

ELEMENT	WIDTH	5.700	8.626	8.626	5.700
HEIGHT	4.600	4.600	4.600	4.600	
WEIGHT	8.250	12.670	12.670	8.250	
MASSSES	.021	.033	.033	.021	
RTY INRTIA	.095	.261	.261	.095	
UPPER GAPS	.000	.011	.011	.011	.000
LOWER GAPS	.000	.011	.011	.011	.000

SUPPORT POST STIFFNESS PARAMETERS

K, VERTICAL =	.61200+06
C, VERTICAL =	.61900+00
K, LATERAL =	.03000
C, LATERAL =	.00000

NORMALIZED B WIDTH FOR FU AND FW

BLOCK NO. 1

FOR HORIZ FORCES, UARM(N,M)

3	2	1
.000	.000	.000

FOR VERT FORCES, WARM(N,M)

6	5	4	3	2	1
.000	.000	.000	.000	-1.000	1.000

BLOCK NO. 2

FOR HORIZ FORCES, UARM(N,M)

3	2	1
-.656	.016	.674

FOR VERT FORCES, WARM(N,M)

6	5	4	3	2	1
-.984	-.328	-.312	.344	.346	1.003

BLOCK NO. 3

FOR HORIZ FORCES, UARM(N,M)

3	2	1
-.656	.016	.674

FOR VERT FORCES, WARM(N,M)

6	5	4	3	2	1
-.984	-.328	-.312	.344	.346	1.003

BLOCK NO. 4

FOR HORIZ FORCES, UARM(N,M)

3	2	1
.000	.000	.004

FOR VERT FORCES, WARM(N,M)

6	5	4	3	2	1
.000	.000	.000	.000	-.996	1.004

CORE SUPPORT BLOCK INDICES

COLUMN IC	FL BLK N	FOR FW M	FOR FU L
1	0	0	0
2	1	1	1
3	2	1	1
4	2	3	2
5	2	5	3
6	5	1	1

7	3	3	2
8	3	5	3
9	4	1	1
10	0	0	0
PLOT FRAME SIZE			
XMAX= 50.000,	XMIN= -10.000 ,	YMAX= 90.000 ,	YMIN= .000
INITIAL POSITION OF BOUNDARY BOX			
HORIZONTAL COORDINATES	.0000	29.6850	
VERTICAL COORDINATES	.0000	82.1580	
INITIAL COORDINATES OF FOUR CORNERS, TOPTS			
.00 .00 .00 .00	6.21	9.04	9.11 11.94 12.01 14.84 14.85 17.68 17.75 20.58 20.64 23.47
.00 .00 .00 .00	82.11	82.11	82.11 82.11 82.11 82.11 82.11 82.11 82.11 82.11 82.11 82.11
.00 .00 .00 .00			
.00 .00 .00 .00	6.21	9.04	9.11 11.94 12.01 14.84 14.85 17.68 17.75 20.58 20.64 23.47
.00 .00 .00 .00	78.99	78.99	78.99 78.99 78.99 78.99 78.99 78.99 78.99 78.99 78.99 78.99
.00 .00 .00 .00			
.00 .00 .00 .00	6.21	9.04	9.11 11.94 12.01 14.84 14.85 17.68 17.75 20.58 20.64 23.47
.00 .00 .00 .00	78.99	78.99	78.99 78.99 78.99 78.99 78.99 78.99 78.99 78.99 78.99 78.99
.00 .00 .00 .00			
.00 .00 .00 .00	6.21	9.04	9.11 11.94 12.01 14.84 14.85 17.68 17.75 20.58 20.64 23.47
.00 .00 .00 .00	72.75	72.75	75.87 75.87 72.75 72.75 72.75 72.75 75.87 75.87 72.75 72.75
.00 .00 .00 .00			
.00 .00 .00 .00	6.21	9.04	9.11 11.94 12.01 14.84 14.85 17.68 17.75 20.58 20.64 23.47
.00 .00 .00 .00	72.75	72.75	75.87 75.87 72.75 72.75 72.75 72.75 75.87 75.87 72.75 72.75
.00 .00 .00 .00			

.00	.00	.00	.00	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
.00	.00	.00	.00												
.00	.00	.00	.00	69.63	69.63	71.19	71.19	69.63	69.63	69.63	69.63	71.19	71.19	69.63	69.63
.00	.00	.00	.00												

.00	.00	.00	.00	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
.00	.00	.00	.00												
.00	.00	.00	.00	69.63	69.63	71.19	71.19	69.63	69.63	69.63	69.63	71.19	71.19	69.63	69.63
.00	.00	.00	.00												

.00	.00	.00	.00	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
.00	.00	.00	.00												
.00	.00	.00	.00	63.39	63.39	68.07	68.07	63.39	63.39	63.39	63.39	68.07	68.07	63.39	63.39
.00	.00	.00	.00												

.00	.00	.00	.00	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
.00	.00	.00	.00												
.00	.00	.00	.00	63.39	63.39	68.07	68.07	63.39	63.39	63.39	63.39	68.07	68.07	63.39	63.39
.00	.00	.00	.00												

.00	.00	.00	.00	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
.00	.00	.00	.00												
.00	.00	.00	.00	57.15	57.15	61.83	61.83	57.15	57.15	57.15	57.15	61.83	61.83	57.15	57.15
.00	.00	.00	.00												

.00	.00	.00	.00	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
.00	.00	.00	.00												
.00	.00	.00	.00	57.15	57.15	61.83	61.83	57.15	57.15	57.15	57.15	61.83	61.83	57.15	57.15
.00	.00	.00	.00												

.00	.00	.00	.00	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
.00	.00	.00	.00												
.00	.00	.00	.00	50.91	50.91	55.59	55.59	50.91	50.91	50.91	50.91	55.59	55.59	50.91	50.91
.00	.00	.00	.00												

.00	.00	.00	.00	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
.00	.00	.00	.00												
.00	.00	.00	.00	50.91	50.91	55.59	55.59	50.91	50.91	50.91	50.91	55.59	55.59	50.91	50.91
.00	.00	.00	.00												

.00	.00	.00	.00	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
.00	.00	.00	.00												
.00	.00	.00	.00	44.67	44.67	49.35	49.35	44.67	44.67	44.67	44.67	49.35	49.35	44.67	44.67
.00	.00	.00	.00												
.00	.00	.00	.00	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
.00	.00	.00	.00												
.00	.00	.00	.00	44.67	44.67	49.35	49.35	44.67	44.67	44.67	44.67	49.35	49.35	44.67	44.67
.00	.00	.00	.00												

.00	.00	.00	.00	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
.00	.00	.00	.00												
.00	.00	.00	.00	38.43	38.43	43.11	43.11	38.43	38.43	38.43	38.43	43.11	43.11	38.43	38.43
.00	.00	.00	.00												
.00	.50	.50	6.20	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
23.48	29.18	29.18	29.68												
82.16	82.16	82.16	82.16	38.43	38.43	43.11	43.11	38.43	38.43	38.43	38.43	43.11	43.11	38.43	38.43
82.16	82.16	82.16	82.16												

.00	.50	.50	6.20	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
23.48	29.18	29.18	29.68												
70.19	70.19	70.19	70.19	32.19	32.19	36.87	36.87	32.19	32.19	32.19	32.19	36.87	36.87	32.19	32.19
70.19	70.19	70.19	70.19												
.00	.50	.50	6.20	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
23.48	29.18	29.18	29.68												
70.19	70.19	70.19	70.19	32.19	32.19	36.87	36.87	32.19	32.19	32.19	32.19	36.87	36.87	32.19	32.19
70.19	70.19	70.19	70.19												

.00	.50	.50	6.20	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
23.48	29.18	29.18	29.68												
58.22	58.22	58.22	58.22	25.95	25.95	30.63	30.63	25.95	25.95	25.95	25.95	30.63	30.63	25.95	25.95
58.22	58.22	58.22	58.22												
.00	.50	.50	6.20	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
23.48	29.18	29.18	29.68												
58.22	58.22	58.22	58.22	25.95	25.95	30.63	30.63	25.95	25.95	25.95	25.95	30.63	30.63	25.95	25.95
58.22	58.22	58.22	58.22												

.00	.50	.50	6.20	6.21	9.04	9.11	11.94	12.01	14.84	14.95	17.68	17.75	20.58	20.64	23.47
23.48	29.18	29.18	29.68												
46.25	46.25	46.25	46.25	19.71	19.71	24.39	24.39	19.71	19.71	19.71	19.71	24.39	24.39	19.71	19.71
46.25	46.25	46.25	46.25												

.00	.50	.50	6.20	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
23.48	29.18	29.18	29.68												
46.25	46.25	46.25	46.25	19.71	19.71	24.39	24.39	19.71	19.71	19.71	19.71	24.39	24.39	19.71	19.71
46.25	46.25	46.25	46.25												

.00	.50	.50	6.20	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
23.48	29.18	29.18	29.68												
34.29	34.29	34.29	34.29	16.59	16.59	18.15	18.15	16.59	16.59	16.59	16.59	18.15	18.15	16.59	16.59
34.29	34.29	34.29	34.29												

.00	.50	.50	6.20	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
23.48	29.18	29.18	29.68												
34.29	34.29	34.29	34.29	16.59	16.59	18.15	18.15	16.59	16.59	16.59	16.59	18.15	18.15	16.59	16.59
34.29	34.29	34.29	34.29												

.00	.50	.50	6.20	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
23.48	29.18	29.18	29.68												
22.32	22.32	22.32	22.32	13.47	13.47	15.03	15.03	13.47	13.47	13.47	13.47	15.03	15.03	13.47	13.47
22.32	22.32	22.32	22.32												

.00	.50	.50	6.20	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
23.48	29.18	29.18	29.68												
22.32	22.32	22.32	22.32	13.47	13.47	15.03	15.03	13.47	13.47	13.47	13.47	15.03	15.03	13.47	13.47
22.32	22.32	22.32	22.32												

.00	.50	.50	6.20	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
23.48	29.18	29.18	29.68												
10.35	10.35	10.35	10.35	10.35	10.35	10.35	10.35	10.35	10.35	10.35	10.35	10.35	10.35	10.35	10.35
10.35	10.35	10.35	10.35												

CONC SUPPORT BLOCKS

.50 6.20 6.21 14.84 14.85 23.47 23.48 29.18
10.35 10.35 10.35 10.35 10.35 10.35 10.35 10.35

.50 6.20 6.21 14.84 14.85 23.47 23.48 29.18
5.75 5.75 5.75 5.75 5.75 5.75 5.75 5.75

TITLE TO APPEAR ON PLOTS WILL BE
MCOCO SIMULATION-1/5 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1

ICACOM = 0
CALCOMP PLOT SIZE = .0000 INCH
MAGNIFICATION SIZE FOR PLOTTING = 2.0000
GAP FOR PLOTTING = .0100

1 PLOTS HAVE BEEN REQUESTED
AT LL = 0

TITLE TO APPEAR ON PLOTS WILL BE
MCOCO SIMULATION-1/5 SCALE-8 COLUMNS-WITH CORE BARRFL PLATES-MODEL 1

INITIAL CONDITIONS FOR QN111 COORDINATES
ON(I)--U(I)..U(N),W(I)..W(N),THETA(I)..THETA(N)

COLUMN NO. 1

.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
.000	.000	.000	.000	.000								

COLUMN NO. 2

.000	.000	.000	.000	.000	.000	-.197-03	-.249-03	-.290-03	-.322-03	-.342-03	-.353-03	.000
.000	.000	.000	.000	.000								

COLUMN NO. 3

.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
.000	-.242-03	-.298-03	-.352-03	-.429-03	-.522-03	-.604-03	-.676-03	-.737-03	-.788-03	-.829-03	-.859-03	-.874-03
-.885-03	-.888-03	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
.000	.000	.000										

COLUMN NO. 4

.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
.000	-.271-03	-.340-03	-.419-03	-.514-03	-.599-03	-.673-03	-.737-03	-.791-03	-.834-03	-.867-03	-.884-03	-.895-03
-.901-03	-.903-03	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
.000	.000	.000										

COLUMN NO. 5

.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
.000	-.242-03	-.298-03	-.352-03	-.429-03	-.522-03	-.604-03	-.676-03	-.737-03	-.788-03	-.829-03	-.859-03	-.874-03
-.885-03	-.888-03	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

.000 .000 .000

COLUMN NO. 6

.000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000
- .242-03 - .298-03 - .352-03 - .429-03 - .522-03 - .604-03 - .676-03 - .737-03 - .798-03 - .829-03 - .859-03 - .874-03
- .885-03 - .888-03 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000
.000 .000 .000

COLUMN NO. 7

.000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000
- .271-03 - .340-03 - .419-03 - .514-03 - .599-03 - .673-03 - .737-03 - .791-03 - .834-03 - .867-03 - .884-03 - .895-03
- .901-03 - .903-03 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000
.000 .000 .000

COLUMN NO. 8

.000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000
- .242-03 - .298-03 - .352-03 - .429-03 - .522-03 - .604-03 - .676-03 - .737-03 - .798-03 - .829-03 - .859-03 - .874-03
- .885-03 - .888-03 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000
.000 .000 .000

COLUMN NO. 9

.000 .000 .000 .000 .000 .000 - .197-03 - .249-03 - .290-03 - .322-03 - .342-03 - .353-03 .000
.000 .000 .000 .000 .000

COLUMN NO. 10

.000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000
.000 .000 .000 .000 .000

INITIAL CONDITIONS FOR CORE SUPPORT BLOCKS

.000 .000 .000 .000 - .135-03 - .183-03 - .183-03 - .135-03 .000 .000 .000 .000

INITIAL COND. OF QD ARE ALL ZERO FOR THIS RUN

NO OF INPUT POINTS READ FOR HORIZ EXCITATION= 1200
 CONVERSION FACTOR FOR UNITS= 1.000
 SCALE FACTOR FOR DESIRED G LEVEL = .240

TIME HISTORY OF HORIZ INPUT ACCLTN AFTER APPLYING THE SCALE FACTORS

.000	.00	.447-02	.00	.894-02	.00	.134-01	.00	.179-01	.00	.224-01	.00	.268-01	.00
.013-01	.00	.358-01	.00	.402-01	.00	.447-01	.00	.492-01	.00	.537-01	.00	.581-01	.00
.626-01	.00	.671-01	.00	.716-01	.00	.760-01	.00	.805-01	.00	.850-01	.00	.894-01	.00
.439-01	.00	.984-01	.00	.103+00	.00	.107+00	.00	.112+00	.00	.116+00	.00	.121+00	.00
.125+00	.00	.137+00	.00	.134+00	.00	.139+00	.00	.143+00	.00	.148+00	.00	.152+00	.00
.157+00	.00	.161+00	.00	.165+00	.00	.170+00	.00	.174+00	.00	.179+00	.00	.183+00	.00
.188+00	.00	.192+00	.00	.197+00	.00	.201+00	.00	.206+00	.00	.210+00	.00	.215+00	.00
.219+00	.00	.224+00	.00	.228+00	.00	.233+00	.00	.237+00	.00	.241+00	.00	.246+00	.00
.250+00	.00	.255+00	.00	.259+00	.00	.264+00	.00	.268+00	.00	.273+00	.00	.277+00	.00
.282+00	.00	.286+00	.00	.291+00	.00	.295+00	.00	.300+00	.00	.304+00	.00	.309+00	.00
.313+00	.00	.318+00	.00	.322+00	.00	.326+00	.00	.331+00	.00	.335+00	.00	.340+00	.00
.344+00	.00	.349+00	.00	.353+00	.00	.358+00	.00	.362+00	.00	.367+00	.00	.371+00	.00
.376+00	.00	.380+00	.00	.385+00	.00	.389+00	.00	.394+00	.00	.398+00	.00	.402+00	.00
.407+00	.00	.411+00	.00	.416+00	.00	.420+00	.00	.425+00	.00	.429+00	.00	.434+00	.00
.436+00	.00	.443+00	.00	.447+00	.00	.452+00	.00	.456+00	.00	.461+00	.00	.465+00	.00
.470+00	.00	.474+00	.00	.479+00	.00	.483+00	.00	.487+00	.00	.492+00	.00	.496+00	.00
.501+00	.00	.505+00	.00	.510+00	.00	.514+00	.00	.519+00	.00	.523+00	.00	.528+00	.00
.532+00	.00	.537+00	.00	.541+00	.00	.546+00	.00	.550+00	.00	.555+00	.00	.559+00	.00
.563+00	.00	.568+00	.00	.572+00	.00	.577+00	.00	.581+00	.00	.586+00	.00	.590+00	.00
.595+00	.00	.599+00	.00	.604+00	.00	.608+00	.00	.613+00	.00	.617+00	.00	.622+00	.00
.626+00	.00	.631+00	.00	.635+00	.00	.640+00	.00	.644+00	.00	.648+00	.00	.653+00	.00
.657+00	.00	.662+00	.00	.666+00	.00	.671+00	.00	.675+00	.00	.680+00	.00	.684+00	.00
.689+00	.00	.693+00	.00	.698+00	.00	.702+00	.00	.707+00	.00	.711+00	.00	.716+00	.00
.720+00	.00	.724+00	.00	.729+00	.00	.733+00	.00	.738+00	.00	.742+00	.00	.747+00	.00
.751+00	.00	.756+00	.00	.760+00	.00	.765+00	.00	.769+00	.00	.774+00	.00	.778+00	.00
.783+00	.00	.787+00	.00	.792+00	.00	.796+00	.00	.801+00	.00	.805+00	.00	.809+00	.00
.814+00	.00	.818+00	.00	.823+00	.00	.827+00	.00	.832+00	.00	.836+00	.00	.841+00	.00
.845+00	.00	.850+00	.00	.854+00	.00	.859+00	.00	.863+00	.00	.868+00	.00	.872+00	.00
.877+00	.00	.881+00	.00	.885+00	.00	.890+00	.00	.894+00	.00	.899+00	.00	.903+00	.00
.906+00	.00	.912+00	.00	.917+00	.00	.921+00	.00	.926+00	.00	.930+00	.00	.935+00	.00
.939+00	.00	.944+00	.00	.948+00	.00	.953+00	.00	.957+00	.00	.962+00	.00	.966+00	.00
.970+00	.00	.975+00	.00	.979+00	.00	.984+00	.00	.988+00	.00	.993+00	.00	.997+00	-32.83
.100+01	-31.46	.101+01	-30.05	.101+01	-28.80	.102+01	-27.77	.102+01	-26.47	.102+01	-24.77	.103+01	-22.58
.103+01	-19.93	.104+01	-16.74	.104+01	-12.86	.105+01	-8.33	.105+01	-3.34	.106+01	1.84	.106+01	6.81
.106+01	11.07	.107+01	14.21	.107+01	16.14	.108+01	17.11	.108+01	17.65	.109+01	18.56	.109+01	20.60
.110+01	25.18	.110+01	32.11	.110+01	41.59	.111+01	53.16	.111+01	66.22	.112+01	79.78	.112+01	92.57
.113+01	103.20	.113+01	110.57	.114+01	113.95	.114+01	112.99	.114+01	107.78	.115+01	98.86	.115+01	87.26
.116+01	74.11	.116+01	60.62	.117+01	48.22	.117+01	38.38	.118+01	32.06	.118+01	29.64	.119+01	30.91
.119+01	35.33	.119+01	42.14	.120+01	50.40	.120+01	59.04	.121+01	66.96	.121+01	73.15	.122+01	76.70
.122+01	77.02	.123+01	74.02	.123+01	67.99	.123+01	59.57	.124+01	49.25	.124+01	37.34	.125+01	24.12
.125+01	10.11	.126+01	-3.97	.126+01	-17.55	.127+01	-30.34	.127+01	-42.19	.127+01	-52.97	.128+01	-62.62
.128+01	-71.33	.129+01	-79.42	.129+01	-86.69	.130+01	-92.61	.130+01	-97.49	.131+01	-100.94	.131+01	-103.54
.131+01	-105.19	.132+01	-105.84	.132+01	-105.46	.133+01	-104.18	.133+01	-102.24	.134+01	-100.03	.134+01	-98.14
.135+01	-97.15	.135+01	-97.15	.136+01	-97.97	.136+01	-99.41	.136+01	-101.14	.137+01	-102.77	.137+01	-103.92
.138+01	-104.47	.139+01	-104.45	.139+01	-103.85	.139+01	-102.48	.140+01	-100.32	.140+01	-97.46	.140+01	-94.01
.141+01	-90.14	.141+01	-86.64	.142+01	-81.53	.142+01	-76.15	.143+01	-69.41	.143+01	-61.22	.144+01	-51.96
.144+01	-41.95	.144+01	-31.27	.145+01	-19.84	.145+01	-7.88	.146+01	4.04	.146+01	15.12	.147+01	24.53
.147+01	31.39	.148+01	35.16	.148+01	35.69	.148+01	33.24	.149+01	28.20	.149+01	21.13	.150+01	12.76
.150+01	4.09	.151+01	-3.89	.151+01	-10.21	.152+01	-13.86	.152+01	-14.00	.152+01	-10.27	.153+01	-2.79
.153+01	7.67	.154+01	20.47	.154+01	34.85	.155+01	49.90	.155+01	64.56	.156+01	77.54	.156+01	87.60
.157+01	93.79	.157+01	95.83	.157+01	93.77	.158+01	87.77	.158+01	78.12	.159+01	65.21	.159+01	49.27

.160+01	30.89	.160+01	11.30	.161+01	-7.86	.161+01	-25.32	.161+01	-40.56	.162+01	-53.66	.162+01	-64.66
.163+01	-73.54	.163+01	-40.42	.164+01	-85.70	.164+01	-89.74	.165+01	-92.90	.165+01	-95.52	.165+01	-97.80
.166+01	-99.74	.166+01	-101.02	.167+01	-101.06	.167+01	-99.41	.168+01	-95.81	.168+01	-90.17	.169+01	-82.90
.169+01	-74.57	.169+01	-65.69	.170+01	-56.71	.170+01	-48.17	.171+01	-40.80	.171+01	-35.33	.172+01	-32.21
.172+01	-31.51	.173+01	-33.26	.173+01	-37.37	.174+01	-43.46	.174+01	-50.95	.174+01	-59.21	.175+01	-67.44
.175+01	-74.83	.176+01	-80.23	.176+01	-82.75	.177+01	-81.58	.177+01	-76.10	.178+01	-65.98	.178+01	-51.24
.176+01	-32.47	.179+01	-10.48	.179+01	13.62	.180+01	38.42	.180+01	62.47	.181+01	84.36	.181+01	102.98
.182+01	117.60	.182+01	127.68	.182+01	132.89	.183+01	133.27	.183+01	129.67	.184+01	123.41	.184+01	115.70
.185+01	107.18	.185+01	98.09	.186+01	88.87	.186+01	80.23	.186+01	72.77	.187+01	66.79	.187+01	62.26
.188+01	59.02	.189+01	56.86	.189+01	55.54	.189+01	54.58	.190+01	55.42	.190+01	57.41	.191+01	61.66
.191+01	68.42	.191+01	77.64	.192+01	89.04	.192+01	101.98	.193+01	115.70	.193+01	129.26	.194+01	141.14
.194+01	149.38	.195+01	152.26	.195+01	148.82	.195+01	138.84	.196+01	122.78	.196+01	101.45	.197+01	75.89
.197+01	47.23	.198+01	17.11	.198+01	-12.07	.199+01	-37.58	.199+01	-57.48	.199+01	-71.02	.200+01	-78.50
.200+01	-80.50	.201+01	-77.59	.201+01	-70.61	.202+01	-60.53	.202+01	-48.53	.203+01	-35.90	.203+01	-23.88
.203+01	-13.36	.204+01	-4.80	.204+01	1.60	.205+01	5.71	.205+01	7.52	.206+01	7.19	.206+01	5.08
.207+01	1.50	.207+01	-3.42	.208+01	-9.58	.208+01	-17.06	.208+01	-26.23	.209+01	-37.54	.209+01	-50.98
.210+01	-65.81	.210+01	-80.78	.211+01	-94.49	.211+01	-105.62	.212+01	-112.99	.212+01	-115.58	.212+01	-112.42
.213+01	-102.79	.213+01	-86.71	.214+01	-65.30	.214+01	-40.44	.215+01	-14.39	.215+01	10.80	.216+01	33.24
.216+01	51.43	.216+01	64.68	.217+01	73.15	.217+01	77.30	.218+01	77.54	.218+01	74.64	.219+01	70.06
.219+01	65.62	.220+01	62.74	.220+01	61.80	.220+01	62.35	.221+01	63.72	.221+01	65.33	.222+01	66.72
.222+01	67.58	.223+01	67.46	.223+01	65.69	.224+01	61.92	.224+01	56.57	.225+01	50.64	.225+01	45.07
.225+01	40.51	.226+01	37.82	.226+01	38.09	.227+01	41.63	.227+01	48.53	.228+01	56.59	.228+01	64.25
.229+01	70.18	.229+01	73.34	.229+01	73.13	.230+01	69.26	.230+01	62.11	.231+01	52.44	.231+01	41.30
.232+01	30.07	.232+01	20.28	.233+01	12.96	.233+01	8.39	.233+01	6.27	.234+01	6.14	.234+01	7.55
.235+01	9.85	.235+01	11.87	.236+01	12.06	.236+01	9.32	.237+01	3.44	.237+01	-5.01	.237+01	-15.15
.238+01	-25.97	.238+01	-36.34	.239+01	-45.14	.239+01	-51.55	.240+01	-54.77	.240+01	-54.19	.241+01	-49.63
.241+01	-41.69	.241+01	-31.75	.242+01	-21.44	.242+01	-12.31	.243+01	-5.33	.243+01	-1.84	.244+01	1.43
.244+01	2.08	.245+01	1.51	.245+01	-1.25	.246+01	-3.07	.246+01	-6.27	.246+01	-8.73	.247+01	-9.44
.247+01	-6.21	.248+01	-5.51	.248+01	-2.05	.249+01	1.68	.249+01	5.39	.250+01	9.02	.250+01	12.40
.250+01	14.93	.251+01	15.91	.251+01	14.98	.252+01	12.28	.252+01	8.34	.253+01	3.73	.253+01	-1.89
.254+01	-4.70	.254+01	-7.01	.254+01	-7.53	.255+01	-6.01	.255+01	-2.11	.256+01	4.22	.256+01	12.46
.257+01	21.71	.257+01	31.13	.258+01	39.86	.258+01	47.18	.258+01	52.54	.259+01	55.80	.259+01	56.81
.260+01	55.27	.260+01	51.00	.261+01	44.30	.261+01	36.07	.262+01	27.24	.262+01	18.37	.263+01	9.60
.263+01	1.07	.263+01	-7.02	.264+01	-14.59	.264+01	-21.65	.265+01	-27.94	.265+01	-32.88	.266+01	-36.14
.266+01	-37.58	.267+01	-37.10	.267+01	-34.80	.267+01	-30.74	.268+01	-25.25	.268+01	-19.05	.269+01	-13.08
.269+01	-8.21	.270+01	-5.01	.270+01	-3.72	.271+01	-4.46	.271+01	-7.23	.271+01	-11.79	.272+01	-17.82
.272+01	-24.96	.273+01	-32.66	.273+01	-40.94	.274+01	-48.38	.274+01	-54.17	.275+01	-57.50	.275+01	-58.34
.275+01	-57.41	.276+01	-55.63	.276+01	-53.83	.277+01	-52.42	.277+01	-51.46	.278+01	-50.86	.278+01	-50.45
.279+01	-49.99	.279+01	-49.30	.280+01	-48.24	.280+01	-46.75	.280+01	-44.64	.281+01	-41.64	.281+01	-37.73
.282+01	-33.07	.282+01	-27.84	.283+01	-22.04	.283+01	-15.67	.284+01	-9.97	.284+01	-5.22	.284+01	-2.29
.285+01	-1.51	.285+01	-3.09	.286+01	-7.15	.286+01	-13.50	.287+01	-21.50	.287+01	-30.48	.288+01	-39.65
.288+01	-47.98	.288+01	-54.38	.289+01	-58.32	.289+01	-59.62	.290+01	-57.98	.290+01	-52.94	.291+01	-44.21
.291+01	-32.35	.292+01	-16.53	.292+01	-3.98	.292+01	10.28	.293+01	23.40	.293+01	34.46	.294+01	42.43
.294+01	46.54	.295+01	46.61	.295+01	43.10	.296+01	36.79	.296+01	28.66	.297+01	19.78	.297+01	11.04
.297+01	2.74	.298+01	-4.61	.298+01	-11.14	.299+01	-15.77	.299+01	-18.59	.300+01	-20.05	.300+01	-20.71
.301+01	-21.44	.301+01	-21.18	.301+01	-21.86	.302+01	-23.16	.302+01	-25.08	.303+01	-27.44	.303+01	-30.17
.304+01	-32.76	.304+01	-34.66	.305+01	-35.38	.305+01	-34.94	.305+01	-33.70	.306+01	-31.92	.306+01	-29.88
.307+01	-27.96	.307+01	-26.90	.308+01	-27.07	.308+01	-28.27	.309+01	-30.00	.309+01	-31.61	.309+01	-32.62
.310+01	-32.66	.310+01	-31.32	.311+01	-28.20	.311+01	-22.97	.312+01	-15.36	.312+01	-5.49	.313+01	6.05
.313+01	18.47	.313+01	30.91	.314+01	42.29	.314+01	51.31	.315+01	57.02	.315+01	59.04	.316+01	57.60
.316+01	53.16	.317+01	46.49	.317+01	39.42	.318+01	29.62	.318+01	20.64	.318+01	12.38	.319+01	5.94
.319+01	2.10	.320+01	1.03	.320+01	2.37	.321+01	5.60	.321+01	10.09	.322+01	15.18	.322+01	20.46
.322+01	25.94	.323+01	31.78	.323+01	37.82	.324+01	43.85	.324+01	49.68	.325+01	55.37	.325+01	60.77
.326+01	65.54	.326+01	69.46	.326+01	72.34	.327+01	73.90	.327+01	73.44	.328+01	70.54	.328+01	65.88
.329+01	59.40	.329+01	50.83	.330+01	40.63	.330+01	29.09	.330+01	16.88	.331+01	4.54	.331+01	-7.93
.332+01	-19.95	.332+01	-30.24	.333+01	-39.04	.333+01	-43.92	.334+01	-48.74	.334+01	-52.78	.335+01	-55.92
.335+01	-54.10	.335+01	-59.33	.336+01	-59.50	.336+01	-56.70	.337+01	-57.53	.337+01	-56.42	.338+01	-55.22

.338+01	-53.59	.339+01	-51.60	.339+01	-49.56	.339+01	-47.88	.340+01	-46.87	.340+01	-47.06	.341+01	-48.89
.341+01	-52.15	.342+01	-56.35	.342+01	-61.22	.343+01	-66.79	.343+01	-72.65	.343+01	-77.76	.344+01	-81.14
.344+01	-81.82	.345+01	-78.89	.345+01	-71.59	.346+01	-59.86	.346+01	-44.33	.347+01	-25.99	.347+01	-5.83
.347+01	15.19	.348+01	35.86	.348+01	54.74	.349+01	70.66	.349+01	82.73	.350+01	90.48	.350+01	93.96
.351+01	93.79	.351+01	91.06	.352+01	86.35	.352+01	79.99	.352+01	72.31	.353+01	64.01	.353+01	55.82
.354+01	48.22	.354+01	41.04	.355+01	34.03	.355+01	27.02	.356+01	20.21	.356+01	13.94	.356+01	8.62
.357+01	4.50	.357+01	1.71	.358+01	.34	.358+01	.62	.359+01	2.74	.359+01	6.80	.360+01	12.66
.360+01	19.93	.360+01	27.91	.361+01	35.83	.361+01	43.20	.362+01	49.58	.362+01	54.65	.363+01	57.98
.363+01	59.14	.364+01	57.79	.364+01	53.69	.364+01	46.68	.365+01	36.96	.365+01	24.96	.366+01	11.64
.366+01	-4.54	.367+01	-21.53	.367+01	-39.19	.368+01	-56.35	.368+01	-71.83	.369+01	-84.96	.369+01	-95.38
.369+01	-102.62	.370+01	-106.20	.370+01	-105.53	.371+01	-100.27	.371+01	-90.65	.372+01	-77.23	.372+01	-60.74
.373+01	-41.93	.373+01	-21.62	.373+01	-.86	.374+01	19.02	.374+01	36.55	.375+01	50.50	.375+01	60.10
.376+01	55.16	.376+01	66.00	.377+01	62.95	.377+01	56.50	.377+01	47.33	.378+01	36.53	.378+01	25.51
.379+01	15.61	.379+01	7.63	.380+01	2.12	.380+01	-.61	.381+01	-.35	.381+01	2.97	.381+01	9.66
.382+01	17.62	.382+01	27.94	.383+01	38.98	.383+01	49.32	.384+01	57.74	.384+01	63.62	.385+01	66.74
.385+01	67.03	.385+01	64.63	.386+01	59.71	.386+01	52.51	.387+01	43.27	.387+01	32.30	.388+01	20.31
.388+01	8.23	.389+01	-3.17	.389+01	-13.31	.390+01	-21.90	.390+01	-28.92	.390+01	-34.54	.391+01	-39.00
.391+01	-42.46	.392+01	-44.59	.392+01	-44.95	.393+01	-43.30	.393+01	-39.82	.394+01	-34.92	.394+01	-29.18
.394+01	-23.15	.395+01	-17.32	.395+01	-12.16	.396+01	-8.31	.396+01	-6.60	.397+01	-7.84	.397+01	-12.68
.398+01	-21.42	.398+01	-33.94	.398+01	-49.61	.399+01	-67.13	.399+01	-84.86	.400+01	-101.16	.400+01	-114.41
.401+01	-123.48	.401+01	-127.51	.402+01	-126.00	.402+01	-119.02	.402+01	-107.26	.403+01	-91.87	.403+01	-74.69
.404+01	-55.27	.404+01	-36.58	.405+01	-19.87	.405+01	-2.86	.406+01	10.79	.406+01	21.71	.407+01	29.98
.407+01	36.14	.407+01	41.14	.408+01	45.89	.408+01	51.05	.409+01	56.66	.409+01	62.30	.410+01	67.42
.410+01	71.50	.411+01	74.18	.411+01	74.83	.411+01	72.70	.412+01	67.06	.412+01	57.62	.413+01	44.88
.413+01	30.24	.414+01	15.78	.414+01	3.87	.415+01	-3.50	.415+01	-5.23	.415+01	-.73	.416+01	9.94
.416+01	26.14	.417+01	46.80	.417+01	70.51	.418+01	95.45	.418+01	119.18	.419+01	139.32	.419+01	154.06
.419+01	162.38	.420+01	163.97	.420+01	159.02	.421+01	148.63	.421+01	131.88	.422+01	111.89	.422+01	69.93
.423+01	67.97	.423+01	47.47	.424+01	29.47	.424+01	14.35	.424+01	2.23	.425+01	-7.09	.425+01	-13.90
.426+01	-18.54	.426+01	-21.47	.427+01	-23.18	.427+01	-24.34	.428+01	-25.70	.428+01	-27.70	.428+01	-30.36
.429+01	-33.29	.429+01	-35.76	.430+01	-36.98	.430+01	-36.62	.431+01	-34.94	.431+01	-32.71	.432+01	-30.62
.432+01	-28.94	.432+01	-27.60	.433+01	-26.71	.433+01	-26.64	.434+01	-27.50	.434+01	-29.11	.435+01	-31.15
.435+01	-33.31	.436+01	-35.28	.436+01	-36.72	.436+01	-37.56	.437+01	-37.90	.437+01	-37.73	.438+01	-37.03
.438+01	-35.78	.439+01	-34.13	.439+01	-32.35	.440+01	-30.96	.440+01	-30.36	.441+01	-30.91	.441+01	-32.78
.441+01	-35.63	.442+01	-39.48	.442+01	-43.10	.443+01	-46.44	.443+01	-49.20	.444+01	-56.78	.444+01	-50.35
.445+01	-47.26	.445+01	-41.40	.445+01	-33.38	.446+01	-23.99	.446+01	-13.57	.447+01	-2.35	.447+01	9.08
.448+01	19.55	.448+01	27.91	.449+01	33.36	.449+01	35.14	.449+01	32.69	.450+01	25.73	.450+01	14.25
.451+01	-1.01	.451+01	-16.78	.452+01	-37.78	.452+01	-56.64	.453+01	-73.78	.453+01	-87.67	.453+01	-97.03
.454+01	-101.21	.454+01	-100.06	.455+01	-93.79	.455+01	-83.06	.456+01	-69.02	.456+01	-53.18	.457+01	-36.82
.457+01	-20.90	.457+01	-6.13	.458+01	6.90	.458+01	17.45	.459+01	25.01	.459+01	29.47	.460+01	31.68
.460+01	30.17	.461+01	27.00	.461+01	22.02	.462+01	15.61	.462+01	8.15	.462+01	-.24	.463+01	-9.43
.463+01	-18.85	.464+01	-27.48	.464+01	-34.30	.465+01	-40.27	.465+01	-40.27	.466+01	-38.69	.466+01	-33.84
.466+01	-25.92	.467+01	-15.10	.467+01	-1.63	.468+01	14.21	.468+01	31.92	.469+01	50.59	.469+01	69.02
.470+01	85.92	.470+01	106.15	.471+01	110.86	.471+01	117.55	.471+01	119.86	.472+01	117.67	.472+01	111.10
.473+01	103.56	.473+01	86.88	.474+01	70.99	.474+01	53.90	.474+01	36.96	.475+01	21.52	.475+01	8.76
.476+01	-3.37	.476+01	-5.12	.477+01	-4.96	.477+01	.18	.478+01	9.79	.478+01	22.90	.479+01	38.30
.479+01	54.60	.479+01	70.20	.480+01	83.69	.480+01	93.94	.481+01	99.96	.481+01	100.97	.482+01	96.55
.482+01	86.66	.483+01	72.58	.483+01	54.67	.483+01	34.15	.484+01	12.12	.484+01	-10.25	.485+01	-31.68
.485+01	-51.12	.486+01	-67.75	.486+01	-80.96	.487+01	-90.43	.487+01	-96.14	.487+01	-98.40	.488+01	-97.58
.488+01	-94.68	.489+01	-88.34	.489+01	-80.95	.490+01	-72.62	.490+01	-64.08	.491+01	-55.87	.491+01	-48.36
.491+01	-41.59	.492+01	-35.33	.492+01	-29.28	.493+01	-23.23	.493+01	-17.16	.494+01	-11.30	.494+01	-5.91
.495+01	-1.10	.495+01	3.21	.496+01	7.14	.496+01	10.71	.496+01	13.58	.497+01	15.11	.497+01	14.71
.498+01	11.96	.498+01	6.86	.499+01	-.26	.499+01	-9.62	.500+01	-19.04	.500+01	-29.90	.500+01	-40.90
.501+01	-51.57	.501+01	-59.33	.502+01	-64.82	.502+01	-66.43	.503+01	-63.67	.503+01	-56.35	.504+01	-44.62
.504+01	-29.97	.504+01	-10.17	.505+01	13.27	.505+01	30.60	.506+01	48.94	.506+01	63.62	.507+01	73.32
.507+01	77.36	.508+01	75.60	.508+01	68.40	.509+01	56.66	.509+01	41.45	.509+01	24.24	.510+01	6.75
.510+01	-9.10	.511+01	-21.54	.511+01	-29.35	.512+01	-32.09	.512+01	-30.12	.513+01	-24.29	.513+01	-15.49
.513+01	-4.95	.514+01	5.91	.514+01	15.56	.515+01	22.86	.515+01	27.26	.516+01	28.63	.516+01	27.14

.517+01	23.17	.517+01	17.34	.517+01	10.44	.518+01	3.35	.518+01	-3.13	.519+01	-8.45	.519+01	-12.31
.520+01	-14.72	.520+01	-15.91	.521+01	-16.19	.521+01	-16.04	.521+01	-16.04	.522+01	-16.65	.522+01	-18.03
.523+01	-20.16	.523+01	-22.68	.524+01	-25.94	.524+01	-29.06	.525+01	-31.58	.525+01	-32.76	.525+01	-32.02
.526+01	-29.23	.526+01	-25.01	.527+01	-20.28	.527+01	-15.99	.528+01	-12.81	.528+01	-11.28	.529+01	-11.88
.529+01	-14.94	.530+01	-20.32	.530+01	-27.48	.530+01	-35.57	.531+01	-43.80	.531+01	-51.46	.532+01	-58.01
.532+01	-62.81	.533+01	-65.16	.533+01	-64.39	.534+01	-60.12	.534+01	-52.51	.534+01	-42.50	.535+01	-31.22
.535+01	-19.78	.536+01	-9.16	.536+01	.00								

MAXIMUM VALUE OF INPUT= 163.968 IN/SEC**2
 MAXIMUM INPUT G LEVEL= .424G

TIME HISTORY PLOTS FOR INPUT VELOCITY AND INPUT DISPLACEMENT IN HORIZ DIRECTION

RESPONSE QUANTITIES

PCOCO SIMULATION-1/5 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1 CARD 1
 ----- TIME = 1.00000 INTERVAL = 0 -----

1-

COL-R	THETA	THETAD	U	UD	W	WD	FVL	FVC	FVR	FBL	FBR	FRI	FDS
1- 1	.00	.00	.00	.00	.00	.00	.0	.0	.0	.0	.0	.0	.0
1- 2	.00	.00	.00	.00	.00	.00	.0	.0	.0	.0	.0	.0	.0
1- 3	.00	.00	.00	.00	.00	.00	.0	.0	.0	.0	.0	.0	.0
1- 4	.00	.00	.00	.00	.00	.00	.0	.0	.0	.0	.0	.0	.0
1- 5	.00	.00	.00	.00	.00	.00	.0	.0	.0	.0	.0	.0	.0
1- 6	.00	.00	.00	.00	.00	.00	.0	.0	.0	.0	.0	.0	.0
2- 1	.00	.00	.00	.00	.00	.00	78.6	.0	78.6	.0	.0	.0	.0
2- 2	.00	.00	.00	.00	.00	.00	65.5	.0	65.5	.0	.0	.0	.0
2- 3	.00	.00	.00	.00	.00	.00	52.4	.0	52.4	.0	.0	.0	.0
2- 4	.00	.00	.00	.00	.00	.00	39.3	.0	39.3	.0	.0	.0	.0
2- 5	.00	.00	.00	.00	.00	.00	26.2	.0	26.2	.0	.0	.0	.0
2- 6	.00	.00	.00	.00	.00	.00	13.1	.0	13.1	.0	.0	.0	.0
3- 1	.00	.00	.00	.00	.00	.00	35.1	.0	35.1	.0	.0	.0	.0
3- 2	.00	.00	.00	.00	.00	.00	33.6	.0	33.6	.0	.0	.0	.0
3- 3	.00	.00	.00	.00	.00	.00	32.1	.0	32.1	.0	.0	.0	.0
3- 4	.00	.00	.00	.00	.00	.00	30.5	.0	30.5	.0	.0	.0	.0
3- 5	.00	.00	.00	.00	.00	.00	27.4	.0	27.4	.0	.0	.0	.0
3- 6	.00	.00	.00	.00	.00	.00	24.4	.0	24.4	.0	.0	.0	.0
3- 7	.00	.00	.00	.00	.00	.00	21.3	.0	21.3	.0	.0	.0	.0
3- 8	.00	.00	.00	.00	.00	.00	18.2	.0	18.2	.0	.0	.0	.0
3- 9	.00	.00	.00	.00	.00	.00	15.1	.0	15.1	.0	.0	.0	.0
3-10	.00	.00	.00	.00	.00	.00	12.1	.0	12.1	.0	.0	.0	.0
3-11	.00	.00	.00	.00	.00	.00	9.0	.0	9.0	.0	.0	.0	.0
3-12	.00	.00	.00	.00	.00	.00	5.9	.0	5.9	.0	.0	.0	.0
3-13	.00	.00	.00	.00	.00	.00	4.4	.0	4.4	.0	.0	.0	.0
3-14	.00	.00	.00	.00	.00	.00	1.3	.0	1.3	.0	.0	.0	.0
4- 1	.00	.00	.00	.00	.00	.00	35.1	.0	35.1	.0	.0	.0	.0
4- 2	.00	.00	.00	.00	.00	.00	32.8	.0	32.8	.0	.0	.0	.0
4- 3	.00	.00	.00	.00	.00	.00	31.3	.0	31.3	.0	.0	.0	.0
4- 4	.00	.00	.00	.00	.00	.00	28.2	.0	28.2	.0	.0	.0	.0
4- 5	.00	.00	.00	.00	.00	.00	25.1	.0	25.1	.0	.0	.0	.0
4- 6	.00	.00	.00	.00	.00	.00	22.1	.0	22.1	.0	.0	.0	.0
4- 7	.00	.00	.00	.00	.00	.00	19.0	.0	19.0	.0	.0	.0	.0
4- 8	.00	.00	.00	.00	.00	.00	15.9	.0	15.9	.0	.0	.0	.0
4- 9	.00	.00	.00	.00	.00	.00	12.8	.0	12.8	.0	.0	.0	.0
4-10	.00	.00	.00	.00	.00	.00	9.8	.0	9.8	.0	.0	.0	.0
4-11	.00	.00	.00	.00	.00	.00	6.7	.0	6.7	.0	.0	.0	.0
4-12	.00	.00	.00	.00	.00	.00	5.2	.0	5.2	.0	.0	.0	.0
4-13	.00	.00	.00	.00	.00	.00	2.8	.0	2.8	.0	.0	.0	.0
4-14	.00	.00	.00	.00	.00	.00	1.3	.0	1.3	.0	.0	.0	.0
5- 1	.00	.00	.00	.00	.00	.00	35.1	.0	35.1	.0	.0	.0	.0
5- 2	.00	.00	.00	.00	.00	.00	33.6	.0	33.6	.0	.0	.0	.0
5- 3	.00	.00	.00	.00	.00	.00	32.1	.0	32.1	.0	.0	.0	.0
5- 4	.00	.00	.00	.00	.00	.00	30.5	.0	30.5	.0	.0	.0	.0
5- 5	.00	.00	.00	.00	.00	.00	27.4	.0	27.4	.0	.0	.0	.0
5- 6	.00	.00	.00	.00	.00	.00	24.4	.0	24.4	.0	.0	.0	.0
5- 7	.00	.00	.00	.00	.00	.00	21.3	.0	21.3	.0	.0	.0	.0
5- 8	.00	.00	.00	.00	.00	.00	18.2	.0	18.2	.0	.0	.0	.0
5- 9	.00	.00	.00	.00	.00	.00	15.1	.0	15.1	.0	.0	.0	.0
5-10	.00	.00	.00	.00	.00	.00	12.1	.0	12.1	.0	.0	.0	.0
5-11	.00	.00	.00	.00	.00	.00	9.0	.0	9.0	.0	.0	.0	.0

5-12	.00	.00	.00	.00	-.00	.00	5.9	.0	5.9	.0	.0	.0	.0
5-13	.00	.00	.00	.00	-.00	.00	4.4	.0	4.4	.0	.0	.0	.0
5-14	.00	.00	.00	.00	-.00	.00	1.3	.0	1.3	.0	.0	.0	.0
6-1	.00	.00	.00	.00	-.00	.00	35.1	.0	35.1	.0	.0	.0	.0
6-2	.00	.00	.00	.00	-.00	.00	33.6	.0	33.6	.0	.0	.0	.0
6-3	.00	.00	.00	.00	-.00	.00	32.1	.0	32.1	.0	.0	.0	.0
6-4	.00	.00	.00	.00	-.00	.00	30.5	.0	30.5	.0	.0	.0	.0
6-5	.00	.00	.00	.00	-.00	.00	27.4	.0	27.4	.0	.0	.0	.0
6-6	.00	.00	.00	.00	-.00	.00	24.4	.0	24.4	.0	.0	.0	.0
6-7	.00	.00	.00	.00	-.00	.00	21.3	.0	21.3	.0	.0	.0	.0
6-8	.00	.00	.00	.00	-.00	.00	18.2	.0	18.2	.0	.0	.0	.0
6-9	.00	.00	.00	.00	-.00	.00	15.1	.0	15.1	.0	.0	.0	.0
6-10	.00	.00	.00	.00	-.00	.00	12.1	.0	12.1	.0	.0	.0	.0
6-11	.00	.00	.00	.00	-.00	.00	9.0	.0	9.0	.0	.0	.0	.0
6-12	.00	.00	.00	.00	-.00	.00	5.9	.0	5.9	.0	.0	.0	.0
6-13	.00	.00	.00	.00	-.00	.00	4.4	.0	4.4	.0	.0	.0	.0
6-14	.00	.00	.00	.00	-.00	.00	1.3	.0	1.3	.0	.0	.0	.0
7-1	.00	.00	.00	.00	-.00	.00	35.1	.0	35.1	.0	.0	.0	.0
7-2	.00	.00	.00	.00	-.00	.00	32.8	.0	32.8	.0	.0	.0	.0
7-3	.00	.00	.00	.00	-.00	.00	31.3	.0	31.3	.0	.0	.0	.0
7-4	.00	.00	.00	.00	-.00	.00	28.2	.0	28.2	.0	.0	.0	.0
7-5	.00	.00	.00	.00	-.00	.00	25.1	.0	25.1	.0	.0	.0	.0
7-6	.00	.00	.00	.00	-.00	.00	22.1	.0	22.1	.0	.0	.0	.0
7-7	.00	.00	.00	.00	-.00	.00	19.0	.0	19.0	.0	.0	.0	.0
7-8	.00	.00	.00	.00	-.00	.00	15.9	.0	15.9	.0	.0	.0	.0
7-9	.00	.00	.00	.00	-.00	.00	12.8	.0	12.8	.0	.0	.0	.0
7-10	.00	.00	.00	.00	-.00	.00	9.8	.0	9.8	.0	.0	.0	.0
7-11	.00	.00	.00	.00	-.00	.00	6.7	.0	6.7	.0	.0	.0	.0
7-12	.00	.00	.00	.00	-.00	.00	5.2	.0	5.2	.0	.0	.0	.0
7-13	.00	.00	.00	.00	-.00	.00	2.8	.0	2.8	.0	.0	.0	.0
7-14	.00	.00	.00	.00	-.00	.00	1.3	.0	1.3	.0	.0	.0	.0
8-1	.00	.00	.00	.00	-.00	.00	35.1	.0	35.1	.0	.0	.0	.0
8-2	.00	.00	.00	.00	-.00	.00	33.6	.0	33.6	.0	.0	.0	.0
8-3	.00	.00	.00	.00	-.00	.00	32.1	.0	32.1	.0	.0	.0	.0
8-4	.00	.00	.00	.00	-.00	.00	30.5	.0	30.5	.0	.0	.0	.0
8-5	.00	.00	.00	.00	-.00	.00	27.4	.0	27.4	.0	.0	.0	.0
8-6	.00	.00	.00	.00	-.00	.00	24.4	.0	24.4	.0	.0	.0	.0
8-7	.00	.00	.00	.00	-.00	.00	21.3	.0	21.3	.0	.0	.0	.0
8-8	.00	.00	.00	.00	-.00	.00	18.2	.0	18.2	.0	.0	.0	.0
8-9	.00	.00	.00	.00	-.00	.00	15.1	.0	15.1	.0	.0	.0	.0
8-10	.00	.00	.00	.00	-.00	.00	12.1	.0	12.1	.0	.0	.0	.0
8-11	.00	.00	.00	.00	-.00	.00	9.0	.0	9.0	.0	.0	.0	.0
8-12	.00	.00	.00	.00	-.00	.00	5.9	.0	5.9	.0	.0	.0	.0
8-13	.00	.00	.00	.00	-.00	.00	4.4	.0	4.4	.0	.0	.0	.0
8-14	.00	.00	.00	.00	-.00	.00	1.3	.0	1.3	.0	.0	.0	.0
9-1	.00	.00	.00	.00	-.00	.00	78.6	.0	78.6	.0	.0	.0	.0
9-2	.00	.00	.00	.00	-.00	.00	65.5	.0	65.5	.0	.0	.0	.0
9-3	.00	.00	.00	.00	-.00	.00	52.4	.0	52.4	.0	.0	.0	.0
9-4	.00	.00	.00	.00	-.00	.00	39.3	.0	39.3	.0	.0	.0	.0
9-5	.00	.00	.00	.00	-.00	.00	26.2	.0	26.2	.0	.0	.0	.0
9-6	.00	.00	.00	.00	-.00	.00	13.1	.0	13.1	.0	.0	.0	.0
10-1	.00	.00	.00	.00	.00	.00	.0	.0	.0	.0	.0	.0	.0
10-2	.00	.00	.00	.00	.00	.00	.0	.0	.0	.0	.0	.0	.0
10-3	.00	.00	.00	.00	.00	.00	.0	.0	.0	.0	.0	.0	.0
10-4	.00	.00	.00	.00	.00	.00	.0	.0	.0	.0	.0	.0	.0
10-5	.00	.00	.00	.00	.00	.00	.0	.0	.0	.0	.0	.0	.0
10-6	.00	.00	.00	.00	.00	.00	.0	.0	.0	.0	.0	.0	.0

PCRV .00 .00 .00 .00

CORE SUPPORT FLOOR.....SUPPORT POST LOADS.....SUPPORT ELEMENT LATERAL IMPACT LOADS,RELATIVE U AND W.....

I(ELEMENT) FVL(I) FVR(I) FHL(I) FHR(I) FBRU(I) FBR(L(I) FBLU(I) FBLL(I) UREL(I) WREL(I)

1	82.7	82.7	.0	.0	.0	.0	.0	.0	.0000	-.0001
2	111.7	111.7	.0	.0	.0	.0	.0	.0	.0000	-.0002
3	111.7	111.7	.0	.0	.0	.0	.0	.0	.0000	-.0002
4	82.7	82.7	.0	.0	.0	.0	.0	.0	.0000	-.0001

POSITION COORDINATES OF BOUNDARY CONTAINER

XMAX= 31.685, XMIN= -2.000, YMAX= 82.158, YMIN= .000

DELTA DISPLMNTS OF 4 CORNERS (DISPL) AT LL= 0

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

[illegible]

PCOCO SIMULATION-1/5 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1 CARD 1
 TIME = 1.01000 INTERVAL = 500

2-

COL-B	THETA	THETAD	U	UD	W	WD	FVL	FVC	FVR	FBL	FBP	FRI	FDS
1- 1	.00	.03	-.00	-.27	.00	.00	.0	.0	.0	1.9	2.3	.0	.0
1- 2	.00	.04	-.00	-.26	.00	.00	.0	.0	.0	2.6	2.4	.0	.3
1- 3	.00	.05	-.00	-.25	.00	.00	.0	.0	.0	2.6	2.4	.0	.1
1- 4	.00	.05	-.00	-.24	.00	.00	.0	.0	.0	2.7	2.5	.0	.0
1- 5	.00	.06	-.00	-.23	.00	.00	.0	.0	.0	2.7	2.5	.0	.0
1- 6	.00	.06	-.00	-.22	.00	.00	.0	.0	.0	2.6	2.6	-.0	.0
2- 1	.00	.03	-.00	-.27	-.00	-.00	78.6	.0	81.8	.0	1.9	.3	1.2
2- 2	.00	.04	-.00	-.26	-.00	-.00	65.9	.0	66.6	.0	2.6	.1	.4
2- 3	.00	.05	-.00	-.25	-.00	-.00	53.6	.0	52.6	.0	2.6	.1	.1
2- 4	.00	.05	-.00	-.24	-.00	-.00	40.8	.0	39.3	.0	2.7	.1	.0
2- 5	.00	.06	-.00	-.23	-.00	-.00	27.8	.0	26.2	.0	2.7	-.0	.0
2- 6	.00	.06	-.00	-.22	-.00	-.00	14.3	.0	13.1	.0	2.6	-.1	-.1
3- 1	.00	.00	-.00	-.00	-.00	-.00	35.3	.0	35.2	.0	.0	-.1	-.0
3- 2	.00	.00	-.00	-.00	-.00	-.00	33.8	.0	33.6	.0	.0	-.1	-.0
3- 3	.00	.00	-.00	-.00	-.00	-.00	32.2	.0	32.1	.0	.0	-.1	-.0
3- 4	.00	.00	-.00	-.00	-.00	-.00	30.7	.0	30.6	.0	.0	-.0	-.0
3- 5	.00	.00	-.00	-.00	-.00	-.00	27.6	.0	27.5	.0	.0	-.0	-.0
3- 6	.00	.00	-.00	-.00	-.00	-.00	24.5	.0	24.4	.0	.0	-.0	-.0
3- 7	.00	.00	-.00	-.00	-.00	-.00	21.4	.0	21.3	.0	.0	-.0	-.0
3- 8	.00	.00	-.00	-.00	-.00	-.00	18.3	.0	18.3	.0	.0	-.0	-.0
3- 9	.00	.00	-.00	-.00	-.00	-.00	15.2	.0	15.3	.0	.0	-.0	-.0
3-10	.00	.00	-.00	-.00	-.00	-.00	12.1	.0	12.2	.0	.0	-.0	-.0
3-11	.00	.00	-.00	-.00	-.00	-.00	9.1	.0	9.1	.0	.0	-.0	-.0
3-12	.00	.00	-.00	-.00	-.00	-.00	6.0	.0	6.0	.0	.0	-.0	-.0
3-13	.00	.00	-.00	-.00	-.00	-.00	4.4	.0	4.4	.0	.0	-.0	-.0
3-14	.00	.00	-.00	-.00	-.00	-.00	1.3	.0	1.3	.0	.0	-.0	-.0
4- 1	.00	.00	-.00	-.00	-.00	-.00	35.3	.0	35.1	.0	.0	-.1	-.0
4- 2	.00	.00	-.00	-.00	-.00	-.00	33.0	.0	32.8	.0	.0	-.1	-.0
4- 3	.00	.00	-.00	-.00	-.00	-.00	31.4	.0	31.3	.0	.0	-.0	-.0
4- 4	.00	.00	-.00	-.00	-.00	-.00	28.3	.0	28.2	.0	.0	-.0	-.0
4- 5	.00	.00	-.00	-.00	-.00	-.00	25.2	.0	25.2	.0	.0	-.0	-.0
4- 6	.00	.00	-.00	-.00	-.00	-.00	22.1	.0	22.1	.0	.0	-.0	-.0
4- 7	.00	.00	-.00	-.00	-.00	-.00	19.0	.0	19.0	.0	.0	-.0	-.0
4- 8	.00	.00	-.00	-.00	-.00	-.00	16.0	.0	15.9	.0	.0	-.0	-.0
4- 9	.00	.00	-.00	-.00	-.00	-.00	12.9	.0	12.9	.0	.0	-.0	-.0
4-10	.00	.00	-.00	-.00	-.00	-.00	9.8	.0	9.8	.0	.0	-.0	-.0
4-11	.00	.00	-.00	-.00	-.00	-.00	6.7	.0	6.7	.0	.0	-.0	-.0
4-12	.00	.00	-.00	-.00	-.00	-.00	5.2	.0	5.2	.0	.0	-.0	-.0
4-13	.00	.00	-.00	-.00	-.00	-.00	2.9	.0	2.9	.0	.0	-.0	-.0
4-14	.00	.00	-.00	-.00	-.00	-.00	1.3	.0	1.3	.0	.0	-.0	-.0
5- 1	.00	.00	-.00	-.00	-.00	-.00	35.6	.0	35.2	.0	.0	-.1	-.0
5- 2	.00	.00	-.00	-.00	-.00	-.00	33.9	.0	33.7	.0	.0	-.1	-.0
5- 3	.00	.00	-.00	-.00	-.00	-.00	32.3	.0	32.2	.0	.0	-.1	-.0
5- 4	.00	.00	-.00	-.00	-.00	-.00	30.7	.0	30.7	.0	.0	-.0	-.0
5- 5	.00	.00	-.00	-.00	-.00	-.00	27.6	.0	27.6	.0	.0	-.0	-.0
5- 6	.00	.00	-.00	-.00	-.00	-.00	24.5	.0	24.5	.0	.0	-.0	-.0
5- 7	.00	.00	-.00	-.00	-.00	-.00	21.4	.0	21.4	.0	.0	-.0	-.0
5- 8	.00	.00	-.00	-.00	-.00	-.00	18.3	.0	18.3	.0	.0	-.0	-.0
5- 9	.00	.00	-.00	-.00	-.00	-.00	15.3	.0	15.3	.0	.0	-.0	-.0
5-10	.00	.00	-.00	-.00	-.00	-.00	12.2	.0	12.2	.0	.0	-.0	-.0
5-11	.00	.00	-.00	-.00	-.00	-.00	9.1	.0	9.1	.0	.0	-.0	-.0

5-12	-.00	-.00	.00	.00	-.00	.00	6.0	.0	6.0	.0	.0	-.0	-.0
5-13	-.00	-.00	-.00	.00	-.00	.00	4.5	.0	4.5	.0	.0	-.0	-.0
5-14	-.00	-.00	-.00	.00	-.00	.00	1.3	.0	1.3	.0	.0	.0	.0
6-1	.00	.00	-.00	-.00	-.00	-.00	35.3	.0	35.2	.0	.0	-.1	-.0
6-2	.00	.00	-.00	-.00	-.00	-.00	33.8	.0	33.6	.0	.0	-.1	-.0
6-3	.00	.00	-.00	-.00	-.00	-.00	32.2	.0	32.1	.0	.0	-.1	-.0
6-4	.00	.00	-.00	-.00	-.00	-.00	30.7	.0	30.6	.0	.0	-.0	-.0
6-5	.00	.00	-.00	-.00	-.00	-.00	27.6	.0	27.5	.0	.0	-.0	-.0
6-6	.00	.00	-.00	-.00	-.00	-.00	24.5	.0	24.4	.0	.0	-.0	-.0
6-7	.00	.00	.00	.00	-.00	-.00	21.4	.0	21.3	.0	.0	-.0	-.0
6-8	.00	.00	.00	.00	-.00	-.00	18.3	.0	18.3	.0	.0	-.0	-.0
6-9	-.00	.00	.00	.00	-.00	-.00	15.2	.0	15.3	.0	.0	-.0	-.0
6-10	-.00	-.00	.00	.00	-.00	-.00	12.1	.0	12.2	.0	.0	-.0	-.0
6-11	-.00	-.00	.00	.00	-.00	-.00	9.1	.0	9.1	.0	.0	.0	-.0
6-12	-.00	-.00	.00	.00	-.00	-.00	6.0	.0	6.0	.0	.0	-.0	-.0
6-13	-.00	-.00	-.00	.00	-.00	-.00	4.4	.0	4.4	.0	.0	-.0	-.0
6-14	-.00	-.00	-.00	.00	-.00	-.00	1.3	.0	1.3	.0	.0	.0	.0
7-1	.00	.00	-.00	-.00	-.00	-.00	35.3	.0	35.1	.0	.0	-.1	-.0
7-2	.00	.00	-.00	-.00	-.00	-.00	33.0	.0	32.8	.0	.0	-.1	-.0
7-3	.00	.00	-.00	-.00	-.00	-.00	31.4	.0	31.3	.0	.0	-.0	-.0
7-4	.00	.00	-.00	-.00	-.00	-.00	28.3	.0	28.2	.0	.0	-.0	-.0
7-5	.00	.00	-.00	-.00	-.00	-.00	25.2	.0	25.2	.0	.0	-.0	-.0
7-6	.00	.00	.00	-.00	-.00	-.00	22.1	.0	22.1	.0	.0	-.0	-.0
7-7	.00	.00	.00	.00	-.00	-.00	19.0	.0	19.0	.0	.0	-.0	-.0
7-8	.00	.00	.00	.00	-.00	-.00	16.0	.0	15.9	.0	.0	-.0	-.0
7-9	.00	.00	.00	.00	-.00	-.00	12.9	.0	12.9	.0	.0	-.0	-.0
7-10	.00	-.00	.00	.00	-.00	-.00	9.8	.0	9.8	.0	.0	.0	-.0
7-11	.00	-.00	.00	.00	-.00	-.00	6.7	.0	6.7	.0	.0	-.0	-.0
7-12	.00	-.00	-.00	.00	-.00	-.00	5.2	.0	5.2	.0	.0	-.0	-.0
7-13	.00	-.00	-.00	.00	-.00	-.00	2.9	.0	2.9	.0	.0	.0	.0
7-14	-.00	-.00	-.00	.00	-.00	-.00	1.3	.0	1.3	.0	.0	.0	.0
8-1	.00	.00	-.00	-.00	-.00	.00	35.6	.0	35.2	.0	.0	-.1	-.0
8-2	.00	.00	-.00	-.00	-.00	.00	33.9	.0	33.7	.0	.0	-.1	-.0
8-3	.00	.00	-.00	-.00	-.00	.00	32.3	.0	32.2	.0	.0	-.1	-.0
8-4	.00	.00	-.00	-.00	-.00	.00	30.7	.0	30.7	.0	.0	-.0	-.0
8-5	.00	.00	-.00	-.00	-.00	.00	27.6	.0	27.6	.0	.0	-.0	-.0
8-6	.00	.00	.00	-.00	-.00	.00	24.5	.0	24.5	.0	.0	-.0	-.0
8-7	.00	.00	.00	.00	-.00	.00	21.4	.0	21.4	.0	.0	-.0	-.0
8-8	.00	.00	.00	.00	-.00	.00	18.3	.0	18.3	.0	.0	-.0	-.0
8-9	-.00	.00	.00	.00	-.00	.00	15.3	.0	15.3	.0	.0	-.0	-.0
8-10	-.00	-.00	.00	.00	-.00	.00	12.2	.0	12.2	.0	.0	-.0	-.0
8-11	-.00	-.00	.00	.00	-.00	.00	9.1	.0	9.1	.0	.0	.0	-.0
8-12	-.00	-.00	.00	.00	-.00	.00	6.0	.0	6.0	.0	.0	-.0	-.0
8-13	-.00	-.00	-.00	.00	-.00	.00	4.5	.0	4.5	.0	.0	-.0	-.0
8-14	-.00	-.00	-.00	.00	-.00	.00	1.3	.0	1.3	.0	.0	.0	.0
9-1	.00	.00	-.00	-.00	-.00	.00	78.8	.0	78.6	.0	.0	-.0	-.0
9-2	.00	.00	-.00	-.00	-.00	.00	65.6	.0	65.5	.0	.0	-.0	-.0
9-3	.00	.00	-.00	-.00	-.00	.00	52.5	.0	52.4	.0	.0	-.0	-.0
9-4	.00	.00	.00	.00	-.00	.00	39.4	.0	39.3	.0	.0	-.0	-.0
9-5	.00	.00	.00	.00	-.00	.00	26.2	.0	26.2	.0	.0	-.0	-.0
9-6	.00	.00	.00	.00	-.00	.00	13.1	.0	13.1	.0	.0	-.0	-.0
10-1	.00	.01	-.00	-.42	.00	.00	.0	.0	.0	-1.5	.0	.0	.0
10-2	.00	.00	-.00	-.42	.00	.00	.0	.0	.0	-1.5	.0	.0	.0
10-3	.00	.01	-.00	-.42	.00	.00	.0	.0	.0	-1.5	.0	.1	.0
10-4	-.00	-.01	-.00	-.42	.00	.00	.0	.0	.0	-1.5	.0	.1	.0
10-5	-.00	-.01	-.00	-.42	.00	.00	.0	.0	.0	-1.5	.0	-.0	.0
10-6	-.00	-.01	-.00	-.42	.00	.00	.0	.0	.0	-1.5	.0	.1	.0

PCRV - .00 - .47 .00 .00

CORE SUPPORT FLOOR.....SUPPORT POST LOADS.....SUPPORT ELEMENT LATERAL IMPACT LOADS,RELATIVE U AND W.....

I (ELEMENT)	FVL(I)	FVR(I)	FHL(I)	FHR(I)	FBRU(I)	FBRL(I)	FBLU(I)	FBLL(I)	UREL(I)	WREL(I)
1	82.8	86.2	.0	.0	2.3	.0	.0	.0	.0025	-.0001
2	111.6	113.3	.0	.0	.0	.0	.0	.0	.0036	-.0002
3	111.6	113.3	.0	.0	.0	.0	.0	.0	.0036	-.0002
4	82.7	83.0	.0	.0	.0	.0	.0	.0	.0036	-.0001

MCOCO SIMULATION-1/5 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1

CARD 1

3-

----- TIME = 1.02000 INTERVAL = 1000 -----

COL-B	THETA	THETAD	U	UD	W	WD	FVL	FVC	FVR	FBL	FBR	FRI	FDS
1- 1	.00	.01	-.01	-.76	.00	.00	.0	.0	.0	2.4	2.9	.0	.0
1- 2	.00	.02	-.01	-.75	.00	.00	.0	.0	.0	3.3	3.0	.1	.6
1- 3	.00	.03	-.01	-.75	.00	.00	.0	.0	.0	3.4	3.2	.0	.4
1- 4	.00	.03	-.01	-.74	.00	.00	.0	.0	.0	3.6	3.3	.0	.2
1- 5	.00	.03	-.01	-.73	.00	.00	.0	.0	.0	3.7	3.4	-.0	.1
1- 6	.00	.03	-.01	-.73	.00	.00	.0	.0	.0	3.8	3.5	.0	.1
2- 1	.00	.01	-.01	-.76	-.00	-.00	75.4	.0	86.8	.0	2.4	.1	1.7
2- 2	.00	.02	-.01	-.75	-.00	-.00	64.4	.0	70.6	.0	3.3	.1	.7
2- 3	.00	.02	-.01	-.75	-.00	-.00	52.2	.0	55.3	.0	3.4	.1	.5
2- 4	.00	.03	-.01	-.74	-.00	-.00	39.4	.0	40.7	.0	3.6	.1	.3
2- 5	.00	.03	-.01	-.73	-.00	-.00	26.5	.0	26.7	.0	3.7	.0	.2
2- 6	.00	.03	-.01	-.73	-.00	-.00	13.4	.0	13.2	.0	3.8	.0	.1
3- 1	.00	.00	-.00	-.00	-.00	-.00	35.2	.0	35.2	.0	.0	.0	.0
3- 2	.00	-.00	-.00	-.00	-.00	-.00	33.7	.0	33.6	.0	.0	.0	.0
3- 3	.00	-.00	-.00	-.00	-.00	-.00	32.2	.0	32.1	.0	.0	.0	.0
3- 4	.00	-.00	-.00	-.00	-.00	-.00	30.6	.0	30.6	.0	.0	-.0	.0
3- 5	.00	-.00	-.00	-.00	-.00	-.00	27.5	.0	27.5	.0	.0	-.0	.0
3- 6	.00	-.00	-.00	-.00	-.00	-.00	24.5	.0	24.4	.0	.0	-.0	.0
3- 7	.00	.00	-.00	-.00	-.00	-.00	21.4	.0	21.3	.0	.0	.0	.0
3- 8	.00	.00	.00	-.00	-.00	-.00	18.3	.0	18.3	.0	.0	.0	-.0
3- 9	.00	.00	.00	-.00	-.00	-.00	15.3	.0	15.2	.0	.0	-.0	-.0
3-10	.00	.00	.00	.00	-.00	-.00	12.2	.0	12.1	.0	.0	.0	-.0
3-11	.00	.00	.00	.00	-.00	-.00	9.1	.0	9.0	.0	.0	-.0	-.0
3-12	.00	.01	.00	.00	-.00	-.00	6.0	.0	5.9	.0	.0	-.0	-.0
3-13	.00	.01	.00	.00	-.00	-.00	4.4	.0	4.4	.0	.0	-.0	-.0
3-14	.00	.01	.00	.00	-.00	-.00	1.3	.0	1.3	.0	.0	-.0	-.0
4- 1	.00	-.00	-.00	-.00	-.00	-.00	35.2	.0	35.1	.0	.0	.0	.0
4- 2	.00	-.00	-.00	-.00	-.00	-.00	32.9	.0	32.8	.0	.0	.0	.0
4- 3	.00	-.00	-.00	-.00	-.00	-.00	31.3	.0	31.3	.0	.0	.0	.0
4- 4	.00	-.00	-.00	-.00	-.00	-.00	28.3	.0	28.2	.0	.0	-.0	.0
4- 5	.00	-.00	-.00	-.00	-.00	-.00	25.2	.0	25.1	.0	.0	-.0	.0
4- 6	.00	.00	-.00	-.00	-.00	-.00	22.1	.0	22.1	.0	.0	.0	.0
4- 7	.00	.00	.00	-.00	-.00	-.00	19.0	.0	19.0	.0	.0	.0	.0
4- 8	.00	.00	.00	-.00	-.00	-.00	16.0	.0	15.9	.0	.0	.0	-.0
4- 9	.00	.00	.00	.00	-.00	-.00	12.9	.0	12.8	.0	.0	.0	-.0
4-10	.00	.00	.00	.00	-.00	-.00	9.8	.0	9.8	.0	.0	.0	-.0
4-11	.00	.00	.00	.00	-.00	-.00	6.7	.0	6.7	.0	.0	-.0	-.0
4-12	.00	.00	.00	.00	-.00	-.00	5.2	.0	5.2	.0	.0	-.0	-.0
4-13	.00	.01	.00	.00	-.00	-.00	2.9	.0	2.9	.0	.0	-.0	-.0
4-14	.00	.01	.00	.00	-.00	-.00	1.3	.0	1.3	.0	.0	-.0	-.0
5- 1	.00	.00	-.00	-.00	-.00	.00	35.2	.0	35.2	.0	.0	.0	.0
5- 2	.00	-.00	-.00	-.00	-.00	.00	33.7	.0	33.6	.0	.0	.0	.0
5- 3	.00	-.00	-.00	-.00	-.00	.00	32.1	.0	32.1	.0	.0	.0	.0
5- 4	.00	-.00	-.00	-.00	-.00	.00	30.6	.0	30.6	.0	.0	-.0	.0
5- 5	.00	-.00	-.00	-.00	-.00	.00	27.5	.0	27.5	.0	.0	-.0	.0
5- 6	.00	-.00	-.00	-.00	-.00	.00	24.5	.0	24.4	.0	.0	-.0	.0
5- 7	.00	.00	-.00	-.00	-.00	.00	21.4	.0	21.3	.0	.0	.0	.0
5- 8	.00	.00	.00	-.00	-.00	.00	18.3	.0	18.2	.0	.0	.0	-.0
5- 9	.00	.00	.00	-.00	-.00	.00	15.2	.0	15.2	.0	.0	-.0	-.0
5-10	.00	.00	.00	.00	-.00	.00	12.2	.0	12.1	.0	.0	.0	-.0
5-11	.00	.00	.00	.00	-.00	.00	9.1	.0	9.0	.0	.0	-.0	-.0

5-12	.00	.01	.00	.00	-.00	.00	6.0	.0	5.9	.0	.0	-.0	-.0
5-13	.00	.01	.00	.00	-.00	.00	4.4	.0	4.4	.0	.0	-.0	-.0
5-14	.00	.01	.00	.00	-.00	.00	1.3	.0	1.3	.0	.0	-.0	-.0
6- 1	.00	.00	-.00	-.00	-.00	-.00	35.2	.0	35.2	.0	.0	.0	.0
6- 2	.00	-.00	-.00	-.00	-.00	-.00	33.7	.0	33.6	.0	.0	.0	.0
6- 3	.00	-.00	-.00	-.00	-.00	-.00	32.2	.0	32.1	.0	.0	.0	.0
6- 4	.00	-.00	-.00	-.00	-.00	-.00	30.6	.0	30.6	.0	.0	-.0	.0
6- 5	.00	-.00	-.00	-.00	-.00	-.00	27.5	.0	27.5	.0	.0	-.0	.0
6- 6	.00	-.00	-.00	-.00	-.00	-.00	24.5	.0	24.4	.0	.0	-.0	.0
6- 7	.00	.00	-.00	-.00	-.00	-.00	21.4	.0	21.3	.0	.0	.0	.0
6- 8	.00	.00	.00	-.00	-.00	-.00	18.3	.0	18.3	.0	.0	.0	-.0
6- 9	.00	.00	.00	-.00	-.00	-.00	15.3	.0	15.2	.0	.0	-.0	-.0
6-10	.00	.00	.00	.00	-.00	-.00	12.2	.0	12.1	.0	.0	.0	-.0
6-11	.00	.00	.00	.00	-.00	-.00	9.1	.0	9.0	.0	.0	-.0	-.0
6-12	.00	.01	.00	.00	-.00	-.00	6.0	.0	5.9	.0	.0	-.0	-.0
6-13	.00	.01	.00	.00	-.00	-.00	4.4	.0	4.4	.0	.0	-.0	-.0
6-14	.00	.01	.00	.00	-.00	-.00	1.3	.0	1.3	.0	.0	-.0	-.0
7- 1	.00	-.00	-.00	-.00	-.00	-.00	35.2	.0	35.1	.0	.0	.0	.0
7- 2	.00	-.00	-.00	-.00	-.00	-.00	32.9	.0	32.8	.0	.0	.0	.0
7- 3	.00	-.00	-.00	-.00	-.00	-.00	31.3	.0	31.3	.0	.0	.0	.0
7- 4	.00	-.00	-.00	-.00	-.00	-.00	28.3	.0	28.2	.0	.0	-.0	.0
7- 5	.00	-.00	-.00	-.00	-.00	-.00	25.2	.0	25.1	.0	.0	-.0	.0
7- 6	.00	.00	-.00	-.00	-.00	-.00	22.1	.0	22.1	.0	.0	.0	.0
7- 7	.00	.00	.00	-.00	-.00	-.00	19.0	.0	19.0	.0	.0	.0	.0
7- 8	.00	.00	.00	-.00	-.00	-.00	16.0	.0	15.9	.0	.0	.0	-.0
7- 9	.00	.00	.00	.00	-.00	-.00	12.9	.0	12.8	.0	.0	.0	-.0
7-10	.00	.00	.00	.00	-.00	-.00	9.8	.0	9.8	.0	.0	.0	-.0
7-11	.00	.00	.00	.00	-.00	-.00	6.7	.0	6.7	.0	.0	-.0	-.0
7-12	.00	.00	.00	.00	-.00	-.00	5.2	.0	5.2	.0	.0	-.0	-.0
7-13	.00	.01	.00	.00	-.00	-.00	2.9	.0	2.9	.0	.0	-.0	-.0
7-14	.00	.01	.00	.00	-.00	-.00	1.3	.0	1.3	.0	.0	-.0	-.0
8- 1	.00	.00	-.00	-.00	-.00	.00	35.2	.0	35.2	.0	.0	.0	.0
8- 2	.00	-.00	-.00	-.00	-.00	.00	33.7	.0	33.6	.0	.0	.0	.0
8- 3	.00	-.00	-.00	-.00	-.00	.00	32.1	.0	32.1	.0	.0	.0	.0
8- 4	.00	-.00	-.00	-.00	-.00	.00	30.6	.0	30.6	.0	.0	-.0	.0
8- 5	.00	-.00	-.00	-.00	-.00	.00	27.5	.0	27.5	.0	.0	-.0	.0
8- 6	.00	-.00	-.00	-.00	-.00	.00	24.5	.0	24.4	.0	.0	-.0	.0
8- 7	.00	.00	-.00	-.00	-.00	.00	21.4	.0	21.3	.0	.0	.0	.0
8- 8	.00	.00	.00	-.00	-.00	.00	18.3	.0	18.2	.0	.0	.0	-.0
8- 9	.00	.00	.00	-.00	-.00	.00	15.2	.0	15.2	.0	.0	-.0	-.0
8-10	.00	.00	.00	.00	-.00	.00	12.2	.0	12.1	.0	.0	.0	-.0
8-11	.00	.00	.00	.00	-.00	.00	9.1	.0	9.0	.0	.0	-.0	-.0
8-12	.00	.01	.00	.00	-.00	.00	6.0	.0	5.9	.0	.0	-.0	-.0
8-13	.00	.01	.00	.00	-.00	.00	4.4	.0	4.4	.0	.0	-.0	-.0
8-14	.00	.01	.00	.00	-.00	.00	1.3	.0	1.3	.0	.0	-.0	-.0
9- 1	.00	.00	-.00	-.00	-.00	-.00	78.6	.0	78.7	.0	.0	.0	.0
9- 2	.00	.00	-.00	-.00	-.00	-.00	65.5	.0	65.6	.0	.0	.0	.0
9- 3	.00	.00	-.00	-.00	-.00	-.00	52.4	.0	52.5	.0	.0	.0	.0
9- 4	.00	.00	.00	.00	-.00	-.00	39.3	.0	39.3	.0	.0	.0	.0
9- 5	.00	.00	.00	.00	-.00	-.00	26.2	.0	26.2	.0	.0	.0	.0
9- 6	.00	.00	.00	.00	-.00	-.00	13.1	.0	13.1	.0	.0	.0	.0
10- 1	.00	-.00	-.01	-.87	.00	.00	.0	.0	.0	-1.5	.0	.0	.0
10- 2	.00	-.01	-.01	-.87	.00	.00	.0	.0	.0	-1.5	.0	.1	.0
10- 3	.00	-.01	-.01	-.87	.00	.00	.0	.0	.0	-1.5	.0	.0	.0
10- 4	.00	-.01	-.01	-.87	.00	.00	.0	.0	.0	-1.5	.0	.1	.0
10- 5	.00	.04	-.01	-.87	.00	.00	.0	.0	.0	-1.5	.0	.0	.0
10- 6	-.00	.03	-.01	-.86	.00	.00	.0	.0	.0	-1.5	.0	.1	.0

PCRV =.01 -.74 .00 .00

CORE SUPPORT FLOOR.....SUPPORT POST LOADS.....SUPPORT ELEMENT LATERAL IMPACT LOADS,RELATIVE U AND W.....

I(ELEMENT) FVL(1) FVR(1) FHL(1) FHR(1) FBRU(1) FBRL(1) FBLU(1) FBLL(1) UREL(1) WREL(1)

1	79.2	92.3	.0	.0	2.8	.0	.0	.0	.0034	-.0001
2	110.4	113.3	.0	.0	.0	.0	.0	.0	.0097	-.0002
3	110.4	113.3	.0	.0	.0	.0	.0	.0	.0097	-.0002
4	82.4	83.2	.0	.0	.0	.0	.0	.0	.0097	-.0001

MCOCO SIMULATION-1/5 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1 CARD 1
 ----- TIME = 1.03000 INTERVAL = 1500 -----

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COL-B	THETA	THETA0	U	UD	W	WD	FVL	FVC	FVR	FBL	FBR	FRI	FDS
1- 1	-.00	-.59	-.01	-.72	.00	.00	.0	.0	.0	56.2	3.6	.0	.0
1- 2	-.00	.35	-.01	-.78	.00	.00	.0	.0	.0	47.6	3.4	-.9	-1.5
1- 3	-.00	-1.94	-.01	-.94	.00	.00	.0	.0	.0	47.5	3.2	-2.0	.8
1- 4	.00	.63	-.01	-1.05	.00	.00	.0	.0	.0	48.5	3.3	1.2	1.4
1- 5	.00	-.20	-.01	-1.01	.00	.00	.0	.0	.0	48.6	3.4	-.2	-.6
1- 6	.00	.03	-.01	-1.03	.00	.00	.0	.0	.0	48.2	3.5	.2	-.8
2- 1	-.00	-.29	-.01	-.78	-.00	-.00	90.6	.0	91.4	120.7	56.2	-16.3	-6.1
2- 2	-.00	-.04	-.01	-.79	-.00	-.00	68.2	.0	89.4	142.9	47.6	-4.8	-4.0
2- 3	-.00	-.20	-.01	-.81	-.00	-.00	52.0	.0	71.6	139.5	47.5	-5.9	1.5
2- 4	-.00	-.35	-.01	-.89	-.00	-.00	40.6	.0	54.0	144.1	48.5	-7.3	1.9
2- 5	-.00	-.39	-.01	-.97	-.00	-.00	29.1	.0	35.4	134.4	48.6	-8.1	2.3
2- 6	-.00	-.41	-.01	-1.05	-.00	-.00	23.9	.0	19.5	104.0	48.2	-5.0	1.8
3- 1	-.00	-.14	-.00	-.73	-.00	.00	52.2	.0	35.1	.0	16.6	-11.1	-5.8
3- 2	-.00	-.07	-.00	-.70	-.00	.00	44.6	.0	37.1	.0	30.4	-4.8	-3.1
3- 3	-.00	-.06	-.00	-.69	-.00	.00	40.1	.0	37.7	.0	28.1	-2.0	-2.7
3- 4	-.00	-.27	-.00	-.70	-.00	.00	35.8	.0	35.6	.0	89.1	-7.1	-2.5
3- 5	-.00	-.66	-.00	-.78	-.00	.00	30.4	.0	33.9	.0	56.6	7.8	-1.4
3- 6	-.00	-.91	-.00	-.89	-.00	.00	26.2	.0	31.1	.0	87.6	-9.7	-.9
3- 7	-.00	-.93	-.00	-1.00	-.00	-.00	24.2	.0	28.5	.0	55.1	5.9	.9
3- 8	.00	-.77	-.00	-1.10	-.00	-.00	19.8	.0	24.6	.0	79.3	-7.3	-1.1
3- 9	.00	-.38	-.00	-1.15	-.00	-.01	18.9	.0	18.9	.0	57.6	5.3	1.0
3-10	.00	-.07	-.00	-1.15	-.00	-.01	14.5	.0	13.5	.0	75.5	-4.8	-1.5
3-11	.00	.13	-.00	-1.13	-.00	-.01	13.6	.0	9.1	.0	59.1	3.6	.4
3-12	.00	.22	-.00	-1.12	-.00	-.01	8.5	.0	8.7	.0	57.3	-2.5	-1.9
3-13	.00	.29	-.00	-1.11	-.00	-.01	9.8	.0	4.6	.0	60.3	2.0	1.0
3-14	-.00	.29	-.00	-1.09	-.00	-.01	3.5	.0	2.1	.0	28.4	-.7	-.5
4- 1	.00	.32	-.00	-.68	-.00	.00	35.3	.0	59.6	.0	.0	8.2	5.7
4- 2	.00	.52	-.00	-.65	-.00	.00	36.9	.0	48.0	.0	.0	4.5	4.9
4- 3	.01	.76	-.00	-.58	-.00	.00	37.4	.0	40.8	.0	.0	3.1	4.3
4- 4	.01	1.14	-.00	-.44	-.00	.00	35.2	.0	28.2	.0	.0	2.0	2.7
4- 5	.00	1.40	-.00	-.27	-.00	-.00	34.8	.0	25.4	.0	.0	-1.8	1.0
4- 6	.00	1.37	.00	-.09	-.00	-.00	33.7	.0	22.8	.0	.0	-1.6	-1.1
4- 7	.00	1.02	.00	.05	-.00	-.00	30.4	.0	20.2	.0	.0	-1.3	-1.3
4- 8	-.00	.46	.00	.12	-.00	-.00	23.9	.0	17.4	.0	.0	-1.2	-1.4
4- 9	-.00	-.06	.00	.11	-.00	-.00	15.9	.0	14.6	.0	.0	-1.2	-.9
4-10	-.00	-.38	.00	.06	-.00	-.00	10.0	.0	11.7	.0	.0	-1.0	-.3
4-11	-.00	-.47	-.00	.02	-.00	-.00	7.0	.0	9.3	.0	.0	.4	.2
4-12	-.00	-.51	-.00	-.01	-.00	-.00	6.5	.0	7.4	.0	.0	.3	.3
4-13	.00	-.52	.00	-.03	-.00	-.00	3.1	.0	3.9	.0	.0	.5	.3
4-14	.00	-.57	.00	-.07	-.00	-.00	1.4	.0	1.6	.0	.0	.3	.2
5- 1	.00	.22	-.00	-.69	-.00	-.00	35.7	.0	59.9	.0	.0	8.5	5.6
5- 2	.00	.42	-.00	-.66	-.00	-.00	37.1	.0	51.9	.0	.0	5.2	5.1
5- 3	.00	.59	-.00	-.62	-.00	-.00	37.2	.0	44.4	.0	.0	3.3	4.5
5- 4	.00	.87	-.00	-.53	-.00	-.00	36.3	.0	37.3	.0	.0	2.4	3.8
5- 5	.00	1.22	-.00	-.39	-.00	-.00	34.7	.0	27.9	.0	.0	1.8	2.2
5- 6	.00	1.39	-.00	-.21	-.00	-.00	33.7	.0	25.4	.0	.0	-1.5	-.7
5- 7	.00	1.26	.00	-.04	-.00	.00	32.3	.0	22.6	.0	.0	-1.3	-1.0
5- 8	.00	.63	.00	.07	-.00	.00	28.0	.0	19.4	.0	.0	-1.1	-1.3
5- 9	-.00	.29	.00	.11	-.00	.00	21.2	.0	16.3	.0	.0	-1.1	-1.2
5-10	-.00	.1	.00	.07	-.00	.01	13.6	.0	13.7	.0	.0	-1.1	-.7
5-11	-.00	-.38	.00	.04	-.00	.01	9.5	.0	11.0	.0	.0	-.8	.2

5-12	.00	-.43	-.00	.01	-.00	.01	6.3	.0	8.1	.0	.0	.3	.2
5-13	.00	-.46	-.00	-.02	-.00	.00	4.7	.0	6.0	.0	.0	.4	.3
5-14	.00	-.46	-.00	-.05	-.00	.00	1.4	.0	1.6	.0	.0	.3	.2
6- 1	.00	.00	-.00	-.00	-.00	.00	35.2	.0	35.2	.0	.0	-.0	-.0
6- 2	.00	.00	-.00	-.00	-.00	.00	33.7	.0	33.6	.0	.0	-.0	-.0
6- 3	.00	.00	-.00	-.00	-.00	.00	32.2	.0	32.1	.0	.0	-.0	-.0
6- 4	.00	.00	-.00	-.00	-.00	.00	30.6	.0	30.6	.0	.0	-.0	-.0
6- 5	.00	.00	-.00	-.00	-.00	.00	27.5	.0	27.5	.0	.0	-.0	-.0
6- 6	.00	.00	-.00	-.00	-.00	.00	24.4	.0	24.4	.0	.0	-.0	-.0
6- 7	.00	.00	-.00	.00	-.00	.00	21.3	.0	21.3	.0	.0	.0	-.0
6- 8	.00	.00	.00	.00	-.00	.00	18.3	.0	18.3	.0	.0	-.0	-.0
6- 9	.00	.00	.00	.00	-.00	.00	15.2	.0	15.2	.0	.0	.0	-.0
6-10	.00	.00	.00	.00	-.00	.00	12.1	.0	12.1	.0	.0	.0	.0
6-11	.00	-.00	.00	.00	-.00	.00	9.0	.0	9.0	.0	.0	.0	.0
6-12	.00	-.00	.00	.00	-.00	.00	5.9	.0	5.9	.0	.0	.0	.0
6-13	.00	-.00	.00	.00	-.00	.00	4.4	.0	4.4	.0	.0	.0	.0
6-14	.00	-.00	.00	.00	-.00	.00	1.3	.0	1.3	.0	.0	.0	.0
7- 1	.00	.00	-.00	-.00	-.00	-.00	35.2	.0	35.1	.0	.0	-.0	-.0
7- 2	.00	.00	-.00	-.00	-.00	-.00	32.9	.0	32.8	.0	.0	-.0	-.0
7- 3	.00	.00	-.00	-.00	-.00	-.00	31.3	.0	31.3	.0	.0	-.0	-.0
7- 4	.00	.00	-.00	-.00	-.00	-.00	28.2	.0	28.2	.0	.0	-.0	-.0
7- 5	.00	.00	-.00	-.00	-.00	-.00	25.2	.0	25.1	.0	.0	-.0	-.0
7- 6	.00	.00	-.00	.00	-.00	-.00	22.1	.0	22.1	.0	.0	-.0	-.0
7- 7	.00	.00	.00	.00	-.00	-.00	19.0	.0	19.0	.0	.0	-.0	-.0
7- 8	.00	.00	.00	.00	-.00	-.00	15.9	.0	15.9	.0	.0	.0	-.0
7- 9	.00	.00	.00	.00	-.00	-.00	12.8	.0	12.9	.0	.0	.0	.0
7-10	.00	-.00	.00	.00	-.00	-.00	9.8	.0	9.8	.0	.0	.0	.0
7-11	.00	-.00	.00	.00	-.00	-.00	6.7	.0	6.7	.0	.0	.0	.0
7-12	.00	-.00	.00	.00	-.00	-.00	5.2	.0	5.2	.0	.0	.0	.0
7-13	.00	-.00	.00	.00	-.00	-.00	2.9	.0	2.9	.0	.0	.0	.0
7-14	.00	-.00	.00	.00	-.00	-.00	1.3	.0	1.3	.0	.0	.0	.0
8- 1	.00	.00	-.00	-.00	-.00	-.00	35.2	.0	35.1	.0	.0	-.0	-.0
8- 2	.00	.00	-.00	-.00	-.00	-.00	33.7	.0	33.6	.0	.0	-.0	-.0
8- 3	.00	.00	-.00	-.00	-.00	-.00	32.1	.0	32.1	.0	.0	-.0	-.0
8- 4	.00	.00	-.00	-.00	-.00	-.00	30.6	.0	30.5	.0	.0	-.0	-.0
8- 5	.00	.00	-.00	-.00	-.00	-.00	27.5	.0	27.5	.0	.0	-.0	-.0
8- 6	.00	.00	-.00	-.00	-.00	-.00	24.4	.0	24.4	.0	.0	-.0	-.0
8- 7	.00	.00	-.00	.00	-.00	-.00	21.3	.0	21.3	.0	.0	.0	-.0
8- 8	.00	.00	.00	.00	-.00	-.00	18.2	.0	18.3	.0	.0	-.0	-.0
8- 9	.00	.00	.00	.00	-.00	-.00	15.2	.0	15.2	.0	.0	.0	-.0
8-10	.00	.00	.00	.00	-.00	-.00	12.1	.0	12.1	.0	.0	.0	.0
8-11	.00	-.00	.00	.00	-.00	-.00	9.0	.0	9.0	.0	.0	.0	.0
8-12	.00	-.00	.00	.00	-.00	-.00	5.9	.0	6.0	.0	.0	.0	.0
8-13	.00	-.00	.00	.00	-.00	-.00	4.4	.0	4.4	.0	.0	.0	.0
8-14	.00	-.00	.00	.00	-.00	-.00	1.3	.0	1.3	.0	.0	.0	.0
9- 1	.00	-.00	-.00	.00	-.00	.00	78.5	.0	78.7	.0	.0	.0	.0
9- 2	.00	-.00	-.00	.00	-.00	.00	65.4	.0	65.6	.0	.0	.0	.0
9- 3	.00	-.00	-.00	.00	-.00	.00	52.3	.0	52.5	.0	.0	.0	.0
9- 4	.00	-.00	.00	-.00	-.00	.00	39.3	.0	39.4	.0	.0	.0	.0
9- 5	.00	-.00	.00	-.00	-.00	.00	26.2	.0	26.2	.0	.0	.0	.0
9- 6	.00	-.00	.00	-.00	-.00	.00	13.1	.0	13.1	.0	.0	.0	.0
10- 1	-.00	-.00	-.02	-1.01	.00	.00	.0	.0	.0	-.8	.0	.0	.0
10- 2	.00	-.01	-.02	-1.01	.00	.00	.0	.0	.0	-.8	.0	.0	.0
10- 3	-.00	.00	-.02	-1.01	.00	.00	.0	.0	.0	-.8	.0	.0	.0
10- 4	-.00	-.01	-.02	-1.01	.00	.00	.0	.0	.0	-.8	.0	.0	.0
10- 5	.00	.01	-.02	-1.01	.00	.00	.0	.0	.0	-.8	.0	.0	.0
10- 6	.00	-.04	-.02	-1.02	.00	.00	.0	.0	.0	-.8	.0	.0	.0

PCRV -02 -98 .00 .00

CORE SUPPORT FLOOR.....SUPPORT POST LOADS.....SUPPORT ELEMENT LATERAL IMPACT LOADS,RELATIVE U AND W.....

I(ELEMENT) FVL(I) FVR(I) FHL(I) FHR(I) FERU(I) FBRL(I) FBLU(I) FBLL(I) UREL(I) WREL(I)

1	98.1	92.7	.0	.0	4.0	.0	33.3	36.1	.0046	-.0001
2	110.4	126.4	.0	.0	33.3	36.1	.0	.0	.0156	-.0002
3	110.4	113.2	.0	.0	.0	.0	.0	.0	.0164	-.0002
4	82.2	83.3	.0	.0	.0	.0	.0	.0	.0164	-.0001

***** FINAL OUTPUT SUMMARY *****

MCOCQ SIMULATION-1/5 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1 CARD 1

RUN TERMINATED AT TIME = 1.03000 AFTER 1500 ITERATIONS

SUMMARY OF MINIMUM AND MAXIMUM DISPLACEMENTS

COLUMNA -ELGCK	MIN	-----U-----		TIME	MIN	-----W-----		TIME	MIN	-----THETA-----		TIME
		TIME	MAX			TIME	MAX			TIME	MAX	
1- 1	-.01	1.03000	.00	.00000	.00	.00000	.00	.00000	-.00	1.02890	.00	1.02304
1- 2	-.01	1.03000	.00	.00000	.00	.00000	.00	.00000	-.00	1.02928	.00	1.02318
1- 3	-.01	1.03000	.00	.00000	.00	.00000	.00	.00000	-.00	1.03000	.00	1.02900
1- 4	-.01	1.03000	.00	.00000	.00	.00000	.00	.00000	-.00	1.02250	.00	1.03000
1- 5	-.01	1.03000	.00	.00000	.00	.00000	.00	.00000	-.00	1.00384	.00	1.02350
1- 6	-.01	1.03000	.00	.00000	.00	.00000	.00	.00000	-.00	1.00484	.00	1.02350
2- 1	-.01	1.03000	.00	.00000	-.00	1.02584	.00	.00000	-.00	1.03000	.00	1.02306
2- 2	-.01	1.03000	.00	.00000	-.00	1.03000	.00	.00000	-.00	1.02974	.00	1.02320
2- 3	-.01	1.03000	.00	.00000	-.00	1.02948	.00	.00000	-.00	1.03000	.00	1.02332
2- 4	-.01	1.03000	.00	.00000	-.00	1.03000	.00	.00000	-.00	1.03000	.00	1.02342
2- 5	-.01	1.03000	.00	.00000	-.00	1.02994	.00	.00000	-.00	1.03000	.00	1.02346
2- 6	-.01	1.03000	.00	.00000	-.00	1.03000	.00	.00000	-.00	1.03000	.00	1.02348
3- 1	-.00	1.03000	.00	1.00044	-.00	1.02960	.00	.00000	-.00	1.03000	.00	1.02546
3- 2	-.00	1.03000	.00	1.00086	-.00	1.02958	.00	.00000	-.00	1.03000	.00	1.02556
3- 3	-.00	1.03000	.00	1.00128	-.00	1.02956	.00	.00000	-.00	1.03000	.00	1.02574
3- 4	-.00	1.03000	.00	1.00246	-.00	1.02954	.00	.00000	-.00	1.03000	.00	1.02580
3- 5	-.00	1.03000	.00	1.00504	-.00	1.02954	.00	.00000	-.00	1.03000	.00	1.02630
3- 6	-.00	1.03000	.00	1.00650	-.00	1.02960	.00	.00000	-.00	1.03000	.00	1.02598
3- 7	-.00	1.03000	.00	1.01234	-.00	1.03000	.00	.00000	-.00	1.03000	.00	1.02738
3- 8	-.00	1.03000	.00	1.01176	-.00	1.03000	.00	.00000	-.00	1.00414	.00	1.02808
3- 9	-.00	1.03000	.00	1.01172	-.00	1.03000	.00	.00000	-.00	1.00546	.00	1.02870
3-10	-.00	1.03000	.00	1.02596	-.00	1.03000	.00	.00000	-.00	1.01012	.00	1.02622
3-11	-.00	1.03000	.00	1.02604	-.00	1.03000	.00	.00000	-.00	1.01040	.00	1.02638
3-12	-.00	1.03000	.00	1.02610	-.00	1.03000	.00	.00000	-.00	1.01038	.00	1.02628
3-13	-.00	1.03000	.00	1.02614	-.00	1.03000	.00	.00000	-.00	1.02954	.00	1.02642
3-14	-.00	1.03000	.00	1.02622	-.00	1.03000	.00	.00000	-.00	1.02956	.00	1.02648
4- 1	-.00	1.03000	.00	1.00054	-.00	1.02972	.00	.00000	-.00	1.00012	.00	1.03000
4- 2	-.00	1.03000	.00	1.00102	-.00	1.02976	.00	.00000	-.00	1.00026	.00	1.03000
4- 3	-.00	1.03000	.00	1.00200	-.00	1.02980	.00	.00000	-.00	1.00062	.00	1.03000
4- 4	-.00	1.03000	.00	1.02672	-.00	1.02996	.00	.00000	-.00	1.02610	.00	1.03000
4- 5	-.00	1.03000	.00	1.02774	-.00	1.03000	.00	.00000	-.00	1.02658	.00	1.03000
4- 6	-.00	1.02642	.00	1.02912	-.00	1.03000	.00	.00000	-.00	1.02716	.00	1.03000
4- 7	-.00	1.02692	.00	1.03000	-.00	1.03000	.00	.00000	-.00	1.02792	.00	1.03000
4- 8	-.00	1.02750	.00	1.03000	-.00	1.03000	.00	.00000	-.00	1.02906	.00	1.02696
4- 9	-.00	1.02816	.00	1.03000	-.00	1.03000	.00	.00000	-.00	1.03000	.00	1.02744
4-10	-.00	1.02902	.00	1.03000	-.00	1.03000	.00	.00000	-.00	1.03000	.00	1.02800
4-11	-.00	1.02964	.00	1.02780	-.00	1.03000	.00	.00000	-.00	1.03000	.00	1.02836
4-12	-.00	1.03000	.00	1.02810	-.00	1.03000	.00	.00000	-.00	1.03000	.00	1.02902
4-13	-.00	1.02968	.00	1.02860	-.00	1.03000	.00	.00000	-.00	1.01032	.00	1.02922
4-14	-.00	1.02994	.00	1.02916	-.00	1.03000	.00	.00000	-.00	1.01032	.00	1.02926
5- 1	-.00	1.03000	.00	1.00044	-.00	1.00002	.00	.00000	-.00	1.00006	.00	1.03000
5- 2	-.00	1.03000	.00	1.00086	-.00	1.00002	.00	.00000	-.00	1.00010	.00	1.03000
5- 3	-.00	1.03000	.00	1.00128	-.00	1.00002	.00	.00000	-.00	1.00030	.00	1.03000
5- 4	-.00	1.03000	.00	1.00246	-.00	1.00002	.00	.00000	-.00	1.00070	.00	1.03000

5-5	-0.00	1.03000	.00	1.02690	-0.00	1.00002	.00	.00000	-0.00	1.02620	.00	1.03000
5-6	-0.00	1.03000	.00	1.02808	-0.00	1.00002	.00	.00000	-0.00	1.02670	.00	1.03000
5-7	-0.00	1.02652	.00	1.02948	-0.00	1.00002	.00	.00000	-0.00	1.02730	.00	1.03000
5-8	-0.00	1.02704	.00	1.03000	-0.00	1.00002	.00	.00000	-0.00	1.02820	.00	1.03000
5-9	-0.00	1.02764	.00	1.03000	-0.00	1.00002	.00	.00000	-0.00	1.02940	.00	1.02708
5-10	-0.00	1.02832	.00	1.03000	-0.00	1.00002	.00	.00000	-0.00	1.03000	.00	1.02756
5-11	-0.00	1.02926	.00	1.02750	-0.00	1.00002	.00	.00000	-0.00	1.03000	.00	1.02812
5-12	-0.00	1.02978	.00	1.02792	-0.00	1.00002	.00	.00000	-0.00	1.03000	.00	1.02860
5-13	-0.00	1.00942	.00	1.02828	-0.00	1.00002	.00	.00000	-0.00	1.01036	.00	1.02926
5-14	-0.00	1.00990	.00	1.02914	-0.00	1.00002	.00	.00000	-0.00	1.01036	.00	1.02930

6-1	-0.00	1.03000	.00	1.00044	-0.00	1.00422	.00	.00000	-0.00	1.00006	.00	1.01288
6-2	-0.00	1.03000	.00	1.00086	-0.00	1.00418	.00	.00000	-0.00	1.00016	.00	1.03000
6-3	-0.00	1.03000	.00	1.00128	-0.00	1.00418	.00	.00000	-0.00	1.00030	.00	1.03000
6-4	-0.00	1.03000	.00	1.00246	-0.00	1.00416	.00	.00000	-0.00	1.00070	.00	1.03000
6-5	-0.00	1.03000	.00	1.00504	-0.00	1.00416	.00	.00000	-0.00	1.00122	.00	1.03000
6-6	-0.00	1.03000	.00	1.00650	-0.00	1.00414	.00	.00000	-0.00	1.00196	.00	1.03000
6-7	-0.00	1.02670	.00	1.01234	-0.00	1.00414	.00	.00000	-0.00	1.00294	.00	1.03000
6-8	-0.00	1.00226	.00	1.01176	-0.00	1.00414	.00	.00000	-0.00	1.00414	.00	1.03000
6-9	-0.00	1.00304	.00	1.03000	-0.00	1.00416	.00	.00000	-0.00	1.00546	.00	1.03000
6-10	-0.00	1.00394	.00	1.03000	-0.00	1.00420	.00	.00000	-0.00	1.01012	.00	1.03000
6-11	-0.00	1.00496	.00	1.03000	-0.00	1.00428	.00	.00000	-0.00	1.01040	.00	1.02834
6-12	-0.00	1.00542	.00	1.03000	-0.00	1.00436	.00	.00000	-0.00	1.01038	.00	1.02674
6-13	-0.00	1.00942	.00	1.03000	-0.00	1.00446	.00	.00000	-0.00	1.01036	.00	1.02624
6-14	-0.00	1.00990	.00	1.03000	-0.00	1.00448	.00	.00000	-0.00	1.01036	.00	1.02618

7-1	-0.00	1.03000	.00	1.00054	-0.00	1.00448	.00	.00000	-0.00	1.00012	.00	1.03000
7-2	-0.00	1.03000	.00	1.00102	-0.00	1.00448	.00	.00000	-0.00	1.00026	.00	1.03000
7-3	-0.00	1.03000	.00	1.00200	-0.00	1.00448	.00	.00000	-0.00	1.00062	.00	1.03000
7-4	-0.00	1.03000	.00	1.00384	-0.00	1.00450	.00	.00000	-0.00	1.00112	.00	1.03000
7-5	-0.00	1.03000	.00	1.00612	-0.00	1.00450	.00	.00000	-0.00	1.00178	.00	1.03000
7-6	-0.00	1.02732	.00	1.00774	-0.00	1.00452	.00	.00000	-0.00	1.00269	.00	1.03000
7-7	-0.00	1.02444	.00	1.01166	-0.00	1.00456	.00	.00000	-0.00	1.00360	.00	1.03000
7-8	-0.00	1.00204	.00	1.01162	-0.00	1.00460	.00	.00000	-0.00	1.00530	.00	1.03000
7-9	-0.00	1.00372	.00	1.03000	-0.00	1.00466	.00	.00000	-0.00	1.00972	.00	1.03000
7-10	-0.00	1.00444	.00	1.03000	-0.00	1.00476	.00	.00000	-0.00	1.01034	.00	1.02852
7-11	-0.00	1.00530	.00	1.03000	-0.00	1.00486	.00	.00000	-0.00	1.01036	.00	1.02690
7-12	-0.00	1.00842	.00	1.03000	-0.00	1.01350	.00	.00000	-0.00	1.01034	.00	1.02634
7-13	-0.00	1.00968	.00	1.03000	-0.00	1.01352	.00	.00000	-0.00	1.01032	.00	1.02618
7-14	-0.00	1.00994	.00	1.03000	-0.00	1.01352	.00	.00000	-0.00	1.01032	.00	1.02614

8-1	-0.00	1.03000	.00	1.00044	-0.00	1.00002	.00	.00000	-0.00	1.00006	.00	1.01288
8-2	-0.00	1.03000	.00	1.00086	-0.00	1.00002	.00	.00000	-0.00	1.00016	.00	1.03000
8-3	-0.00	1.03000	.00	1.00128	-0.00	1.00002	.00	.00000	-0.00	1.00030	.00	1.03000
8-4	-0.00	1.03000	.00	1.00246	-0.00	1.00002	.00	.00000	-0.00	1.00070	.00	1.03000
8-5	-0.00	1.03000	.00	1.00504	-0.00	1.00002	.00	.00000	-0.00	1.00122	.00	1.03000
8-6	-0.00	1.03000	.00	1.00650	-0.00	1.00002	.00	.00000	-0.00	1.00196	.00	1.03000
8-7	-0.00	1.02670	.00	1.01234	-0.00	1.00002	.00	.00000	-0.00	1.00294	.00	1.03000
8-8	-0.00	1.00226	.00	1.01176	-0.00	1.00002	.00	.00000	-0.00	1.00414	.00	1.03000
8-9	-0.00	1.00304	.00	1.03000	-0.00	1.00002	.00	.00000	-0.00	1.00546	.00	1.03000
8-10	-0.00	1.00394	.00	1.03000	-0.00	1.00002	.00	.00000	-0.00	1.01012	.00	1.03000
8-11	-0.00	1.00496	.00	1.03000	-0.00	1.00002	.00	.00000	-0.00	1.01040	.00	1.02834
8-12	-0.00	1.00542	.00	1.03000	-0.00	1.00002	.00	.00000	-0.00	1.01038	.00	1.02674
8-13	-0.00	1.00942	.00	1.03000	-0.00	1.00002	.00	.00000	-0.00	1.01036	.00	1.02624
8-14	-0.00	1.00990	.00	1.03000	-0.00	1.00002	.00	.00000	-0.00	1.01036	.00	1.02616

9-1	-0.00	1.02586	.00	1.00046	-0.00	1.02670	.00	.00000	.00	.00000	.00	1.02562
9-2	-0.00	1.02584	.00	1.00196	-0.00	1.02100	.00	.00000	.00	.00000	.00	1.02560

9- 3	-.00	1.02566	.00	1.00390	-.00	1.02090	.00	.00000	-.00	1.00028	.00	1.02556
9- 4	-.00	1.00020	.00	1.02606	-.00	1.02084	.00	.00000	-.00	1.00054	.00	1.02552
9- 5	-.00	1.00050	.00	1.02586	-.00	1.02096	.00	.00000	-.00	1.00082	.00	1.02550
9- 6	-.00	1.00086	.00	1.02578	-.00	1.02102	.00	.00000	-.00	1.00118	.00	1.02550
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10- 1	-.02	1.03000	.00	.00000	.00	.00000	.00	.00000	-.00	1.03000	.00	1.01232
10- 2	-.02	1.03000	.00	.00000	.00	.00000	.00	.00000	-.00	1.00276	.00	1.01574
10- 3	-.02	1.03000	.00	.00000	.00	.00000	.00	.00000	-.00	1.02866	.00	1.01366
10- 4	-.02	1.03000	.00	.00000	.00	.00000	.00	.00000	-.00	1.03000	.00	1.01732
10- 5	-.02	1.03000	.00	.00000	.00	.00000	.00	.00000	-.00	1.01516	.00	1.03000
10- 6	-.02	1.03000	.00	.00000	.00	.00000	.00	.00000	-.00	1.01938	.00	1.02770

SUMMARY OF MINIMUM AND MAXIMUM VELOCITIES

COLUMN -CLOCK-	MIN	-----UO-----		TIME	MIN	-----WD-----		TIME	MIN	-----THE TAO-----		TIME
		TIME	MAX			TIME	MAX			TIME	MAX	
1- 1	-1.01	1.02552	.00	.00000	.00	.00000	.00	.00000	-1.17	1.02614	.83	1.02928
1- 2	-1.01	1.02564	.00	.00000	.00	.00000	.00	.00000	-.73	1.02656	.58	1.02974
1- 3	-1.02	1.02578	.00	.00000	.00	.00000	.00	.00000	-2.00	1.02992	.27	1.02770
1- 4	-1.05	1.03000	.00	.00000	.00	.00000	.00	.00000	-.50	1.02608	.63	1.03000
1- 5	-1.05	1.02608	.00	.00000	.00	.00000	.00	.00000	-.49	1.02626	.07	1.01012
1- 6	-1.06	1.02620	.00	.00000	.00	.00000	.00	.00000	-.89	1.02642	.56	1.02688
2- 1	-1.00	1.02540	.00	.00000	-.00	1.02980	.00	1.02706	-.99	1.02590	.04	1.01280
2- 2	-1.01	1.02556	.00	.00000	-.00	1.02564	.00	1.02696	-1.13	1.02566	.30	1.02566
2- 3	-1.02	1.02570	.00	.00000	-.00	1.02598	.00	1.02628	-1.18	1.02580	.45	1.02602
2- 4	-1.04	1.02584	.00	.00000	-.00	1.02614	.00	1.02646	-1.18	1.02596	.50	1.02616
2- 5	-1.05	1.02599	.00	.00000	-.00	1.02626	.00	1.02656	-1.05	1.02610	.41	1.02628
2- 6	-1.06	1.02612	.00	.00000	-.00	1.02656	.00	1.02616	-1.35	1.02624	.81	1.02654
3- 1	-.83	1.02594	.00	1.00020	-.02	1.02562	.01	1.02670	-1.71	1.02568	.98	1.02546
3- 2	-.98	1.02588	.00	1.00034	-.02	1.02570	.01	1.02676	-1.44	1.02572	2.06	1.02548
3- 3	-1.03	1.02586	.00	1.00056	-.02	1.02578	.01	1.02684	-1.31	1.02630	1.88	1.02550
3- 4	-1.02	1.02616	.00	1.00092	-.02	1.02592	.01	1.02696	-1.37	1.02620	5.31	1.02560
3- 5	-1.08	1.02648	.01	1.02560	-.02	1.02608	.00	1.02710	-1.07	1.02718	4.31	1.02566
3- 6	-1.09	1.02716	.01	1.02566	-.02	1.02624	.00	1.02726	-.92	1.02946	5.59	1.02574
3- 7	-1.11	1.02786	.01	1.02574	-.01	1.02640	.00	1.02732	-.93	1.03000	3.73	1.02580
3- 8	-1.12	1.02892	.01	1.02580	-.01	1.02830	.00	1.02734	-.72	1.03000	5.90	1.02588
3- 9	-1.15	1.03000	.02	1.02590	-.01	1.02830	.00	1.00564	-.38	1.03000	4.35	1.02596
3-10	-1.15	1.03000	.01	1.02596	-.01	1.02700	.00	1.00614	-.97	1.02630	7.83	1.02604
3-11	-1.13	1.03000	.01	1.02604	-.01	1.02704	.00	1.00616	-.98	1.02650	3.96	1.02618
3-12	-1.12	1.03000	.01	1.02610	-.01	1.02624	.01	1.02634	-1.92	1.02634	8.67	1.02616
3-13	-1.16	1.02660	.00	1.02614	-.02	1.02740	.01	1.02644	-.83	1.02656	4.68	1.02622
3-14	-1.18	1.02686	.01	1.02622	-.02	1.02742	.02	1.02630	-.97	1.02660	4.26	1.02628
4- 1	-.68	1.03000	.00	1.00022	-.00	1.02564	.00	1.02670	-.01	1.00008	2.54	1.02572
4- 2	-.65	1.03000	.00	1.02556	-.00	1.02574	.00	1.02678	-.01	1.00018	2.11	1.02586
4- 3	-.58	1.03000	.01	1.02582	-.00	1.02904	.00	1.02692	-.05	1.02558	1.97	1.02624
4- 4	-.44	1.03000	.04	1.02630	-.00	1.02916	.00	1.02706	-.21	1.02592	1.56	1.02800
4- 5	-.27	1.03000	.06	1.02634	-.00	1.02816	.00	1.02722	-.35	1.02630	1.48	1.02884
4- 6	-.09	1.03000	.08	1.02756	-.00	1.02830	.00	1.00560	-.42	1.02672	1.37	1.03000
4- 7	-.01	1.02666	.10	1.02880	-.00	1.02838	.00	1.00744	-.44	1.02718	1.02	1.03000
4- 8	-.01	1.02714	.12	1.02980	-.00	1.02844	.00	1.00708	-.42	1.02774	.46	1.03000
4- 9	-.01	1.02766	.11	1.03000	-.00	1.02850	.00	1.00678	-.40	1.02874	.09	1.02714
4-10	-.02	1.02828	.06	1.03000	-.00	1.03000	.00	1.00670	-.40	1.02948	.11	1.02760
4-11	-.02	1.02748	.02	1.03000	-.00	1.02750	.00	1.00666	-.47	1.03000	.09	1.02788
4-12	-.02	1.02916	.00	1.02774	-.00	1.02750	.00	1.00666	-.51	1.03000	.12	1.02840
4-13	-.03	1.03000	.00	1.02910	-.00	1.02750	.00	1.00666	-.52	1.03000	.20	1.02864
4-14	-.05	1.03000	.01	1.02864	-.00	1.02750	.00	1.00666	-.52	1.03000	.23	1.02866
5- 1	-.69	1.03000	.00	1.00020	-.01	1.02670	.02	1.02562	-.00	1.00004	1.64	1.02566
5- 2	-.66	1.03000	.00	1.00034	-.01	1.02678	.02	1.02572	-.01	1.00012	2.06	1.02580
5- 3	-.62	1.03000	.01	1.02566	-.01	1.02684	.02	1.02578	-.01	1.00022	1.73	1.02594
5- 4	-.53	1.03000	.02	1.02592	-.01	1.02696	.02	1.02592	-.06	1.02566	1.58	1.02636

5- 5	-.39	1.03000	.04	1.02640	-.00	1.02710	.02	1.02608	-.21	1.02600	1.46	1.02822
5- 6	-.21	1.03000	.06	1.02700	-.00	1.02722	.01	1.02624	-.32	1.02638	1.40	1.02968
5- 7	-.04	1.03000	.07	1.02792	-.00	1.02734	.01	1.02640	-.36	1.02682	1.26	1.03000
5- 8	-.01	1.02678	.09	1.02912	-.00	1.02744	.01	1.02830	-.37	1.02730	.83	1.03000
5- 9	-.01	1.02726	.11	1.03000	-.00	1.00562	.01	1.02830	-.36	1.02790	.29	1.03000
5-10	-.01	1.02780	.09	1.03000	-.00	1.00610	.01	1.02688	-.38	1.02902	.08	1.02724
5-11	-.02	1.02450	.04	1.03000	-.00	1.00614	.01	1.02708	-.38	1.03000	.10	1.02772
5-12	-.02	1.02892	.01	1.03000	-.00	1.00614	.01	1.02732	-.43	1.03000	.07	1.02798
5-13	-.02	1.03000	.00	1.02796	-.00	1.00614	.02	1.02740	-.46	1.03000	.17	1.02866
5-14	-.05	1.03000	.01	1.02862	-.00	1.02834	.02	1.02740	-.46	1.03000	.21	1.02870

6- 1	-.00	1.02744	.00	1.00020	-.00	1.00022	.00	1.00478	-.00	1.00504	.06	1.00026
6- 2	-.00	1.03000	.00	1.00034	-.00	1.00030	.00	1.00478	-.01	1.00012	.04	1.00044
6- 3	-.00	1.03000	.00	1.00056	-.00	1.00038	.00	1.00478	-.01	1.00022	.02	1.00058
6- 4	-.00	1.03000	.00	1.00092	-.00	1.00054	.00	1.00467	-.01	1.00048	.01	1.00110
6- 5	-.00	1.01778	.00	1.00148	-.00	1.00072	.00	1.00466	-.01	1.00082	.01	1.00208
6- 6	-.00	1.01796	.00	1.00230	-.00	1.00068	.00	1.00496	-.01	1.00124	.00	1.00580
6- 7	-.00	1.01808	.00	1.00332	-.00	1.00104	.00	1.00512	-.01	1.00170	.00	1.00738
6- 8	-.00	1.01818	.00	1.00448	-.00	1.00122	.00	1.00530	-.01	1.00230	.00	1.00736
6- 9	-.00	1.01432	.00	1.00754	-.00	1.00138	.00	1.00564	-.00	1.00302	.00	1.01786
6-10	-.00	1.00292	.00	1.00764	-.00	1.00156	.00	1.00614	-.00	1.00400	.00	1.01798
6-11	-.00	1.00386	.00	1.02696	-.00	1.00186	.00	1.00616	-.00	1.00724	.00	1.01428
6-12	-.00	1.00408	.00	1.01864	-.00	1.00212	.00	1.00614	-.01	1.00688	.01	1.01402
6-13	-.00	1.00698	.00	1.02064	-.00	1.00212	.00	1.00614	-.01	1.00644	.01	1.01376
6-14	-.00	1.00672	.00	1.02110	-.00	1.00212	.00	1.00614	-.01	1.00640	.01	1.01372

7- 1	-.00	1.02992	.00	1.00022	-.00	1.00024	.00	1.00520	-.01	1.00004	.05	1.00036
7- 2	-.00	1.03000	.00	1.00048	-.00	1.00032	.00	1.00520	-.01	1.00018	.03	1.00052
7- 3	-.00	1.03000	.00	1.00082	-.00	1.00050	.00	1.00524	-.01	1.00042	.02	1.00102
7- 4	-.00	1.00866	.00	1.00134	-.00	1.00068	.00	1.00532	-.01	1.00076	.01	1.00178
7- 5	-.00	1.01794	.00	1.00208	-.00	1.00088	.00	1.00544	-.01	1.00116	.00	1.00302
7- 6	-.00	1.01810	.00	1.00304	-.00	1.00106	.00	1.00560	-.01	1.00160	.00	1.00680
7- 7	-.00	1.01824	.00	1.00426	-.00	1.00124	.00	1.00744	-.01	1.00216	.00	1.00736
7- 8	-.00	1.01458	.00	1.00742	-.00	1.00142	.00	1.00708	-.01	1.00286	.00	1.01790
7- 9	-.00	1.00280	.00	1.00764	-.00	1.00162	.00	1.00678	-.00	1.00390	.00	1.01804
7-10	-.00	1.00366	.00	1.02744	-.00	1.00242	.00	1.00670	-.00	1.00730	.00	1.01992
7-11	-.00	1.00406	.00	1.01854	-.00	1.00230	.00	1.00666	-.01	1.00708	.01	1.01406
7-12	-.00	1.00440	.00	1.01946	-.00	1.00224	.00	1.00666	-.01	1.00654	.01	1.01388
7-13	-.00	1.00692	.00	1.02102	-.00	1.00222	.00	1.00666	-.01	1.00644	.01	1.01374
7-14	-.00	1.00680	.00	1.02126	-.00	1.00222	.00	1.00666	-.01	1.00642	.01	1.01372

8- 1	-.00	1.02984	.00	1.00020	-.00	1.00478	.00	1.00022	-.00	1.00504	.06	1.00026
8- 2	-.00	1.03000	.00	1.00034	-.00	1.00476	.00	1.00030	-.01	1.00012	.04	1.00044
8- 3	-.00	1.03000	.00	1.00056	-.00	1.00476	.00	1.00038	-.01	1.00022	.02	1.00058
8- 4	-.00	1.03000	.00	1.00092	-.00	1.00478	.00	1.00054	-.01	1.00048	.01	1.00110
8- 5	-.00	1.01778	.00	1.00148	-.00	1.00468	.00	1.00072	-.01	1.00082	.01	1.00208
8- 6	-.00	1.01796	.00	1.00230	-.00	1.00494	.00	1.00068	-.01	1.00124	.00	1.00580
8- 7	-.00	1.01808	.00	1.00332	-.00	1.00510	.00	1.00104	-.01	1.00170	.00	1.00738
8- 8	-.00	1.01818	.00	1.00448	-.00	1.00530	.00	1.00122	-.01	1.00230	.00	1.00736
8- 9	-.00	1.01432	.00	1.00754	-.00	1.00562	.00	1.00138	-.00	1.00302	.00	1.01786
8-10	-.00	1.00292	.00	1.00764	-.00	1.00610	.00	1.00156	-.00	1.00400	.00	1.01798
8-11	-.00	1.00386	.00	1.02696	-.00	1.00614	.00	1.00184	-.00	1.00724	.00	1.01428
8-12	-.00	1.00408	.00	1.01864	-.00	1.00614	.00	1.00210	-.01	1.00688	.01	1.01402
8-13	-.00	1.00698	.00	1.02064	-.00	1.00614	.00	1.00212	-.01	1.00644	.01	1.01376
8-14	-.00	1.00672	.00	1.02110	-.00	1.00614	.00	1.00212	-.01	1.00640	.01	1.01372

9- 1	-.00	1.01116	.00	1.03000	-.00	1.00016	.00	1.00468	-.00	1.03000	.01	1.00030
9- 2	-.00	1.01234	.00	1.03000	-.00	1.00198	.00	1.00466	-.00	1.03000	.00	1.00062

9- 3	- .00	1.00894	.00	1.00154	- .00	1.00184	.00	1.00472	- .00	1.03000	.00	1.00094
9- 4	- .00	1.03700	.00	1.01352	- .00	1.00154	.00	1.00462	- .00	1.03000	.00	1.01172
9- 5	- .00	1.03000	.00	1.01266	- .00	1.00166	.00	1.00438	- .00	1.03000	.00	1.00984
9- 6	- .00	1.03000	.00	1.01084	- .00	1.00150	.00	1.00450	- .00	1.03000	.00	1.00912
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10- 1	-1.01	1.03000	.00	.00000	.00	.00000	.00	.00000	- .01	1.01544	.01	1.00384
10- 2	-1.01	1.03000	.00	.00000	.00	.00000	.00	.00000	- .02	1.01784	.03	1.00702
10- 3	-1.01	1.03000	.00	.00000	.00	.00000	.00	.00000	- .03	1.02228	.04	1.01050
10- 4	-1.01	1.03000	.00	.00000	.00	.00000	.00	.00000	- .04	1.02792	.05	1.01436
10- 5	-1.01	1.03000	.00	.00000	.00	.00000	.00	.00000	- .04	1.01294	.07	1.01798
10- 6	-1.02	1.03000	.00	.00000	.00	.00000	.00	.00000	- .06	1.01710	.12	1.02340

SUMMARY OF MAXIMUM FORCES

COL-BLK	FORCE	FVL TIME	FORCE	FVC TIME	FORCE	FVR TIME	FORCE	FBL TIME	FORCE	FBR TIME	FORCE	FRI TIME	FORCE	FOS TIME
1- 1	.0	.000000	.0	.000000	.0	.000000	56.2	1.02594	3.9	1.03000	.0	.000000	.0	.000000
1- 2	.0	.000000	.0	.000000	.0	.000000	47.6	1.02602	3.6	1.03000	-.9	1.02944	-1.5	1.03000
1- 3	.0	.000000	.0	.000000	.0	.000000	47.5	1.02614	3.4	1.03000	-2.0	1.02928	.8	1.02710
1- 4	.0	.000000	.0	.000000	.0	.000000	48.5	1.02630	3.2	1.02740	1.2	1.02998	1.4	1.03000
1- 5	.0	.000000	.0	.000000	.0	.000000	48.6	1.02644	3.3	1.02758	-.2	1.02906	-.6	1.02678
1- 6	.0	.000000	.0	.000000	.0	.000000	48.2	1.02660	3.4	1.02772	.2	1.02838	-.8	1.02706
2- 1	90.6	1.03000	.0	.000000	91.4	1.02568	120.7	1.02558	56.2	1.02594	-16.3	1.02566	-6.1	1.02728
2- 2	68.2	1.02962	.0	.000000	89.4	1.02640	142.9	1.02568	47.6	1.02602	-4.8	1.02560	-4.0	1.02900
2- 3	53.6	1.00572	.0	.000000	71.6	1.02674	139.5	1.02584	47.5	1.02614	-5.9	1.02584	1.5	1.02706
2- 4	40.8	1.00557	.0	.000000	54.0	1.02804	144.1	1.02598	48.5	1.02630	-7.3	1.02600	1.9	1.02812
2- 5	29.1	1.02624	.0	.000000	35.4	1.02850	134.4	1.02612	48.6	1.02644	-8.1	1.02614	2.3	1.02564
2- 6	23.9	1.02640	.0	.000000	19.5	1.02614	104.0	1.02628	48.2	1.02660	-5.0	1.02628	1.8	1.03000
3- 1	52.2	1.03000	.0	.000000	35.2	1.00422	.0	.000000	16.6	1.02560	-11.1	1.02598	-5.8	1.02760
3- 2	44.6	1.02942	.0	.000000	37.1	1.02590	.0	.000000	30.4	1.02558	-4.8	1.02586	-3.1	1.02932
3- 3	40.1	1.03000	.0	.000000	37.7	1.02602	.0	.000000	28.1	1.02558	-7.0	1.02664	-2.7	1.02966
3- 4	35.8	1.03000	.0	.000000	35.6	1.02632	.0	.000000	89.1	1.02560	-7.1	1.02560	-2.5	1.03000
3- 5	30.4	1.02564	.0	.000000	33.9	1.02710	.0	.000000	56.6	1.02570	7.8	1.02574	-1.4	1.03000
3- 6	26.2	1.02570	.0	.000000	31.1	1.02872	.0	.000000	87.6	1.02574	-9.7	1.02574	-.9	1.02590
3- 7	24.2	1.02582	.0	.000000	28.5	1.03000	.0	.000000	55.1	1.02586	5.9	1.02590	.9	1.02834
3- 8	19.8	1.02564	.0	.000000	24.6	1.03000	.0	.000000	79.3	1.02588	-7.3	1.02586	-1.1	1.02604
3- 9	18.9	1.02594	.0	.000000	16.9	1.03000	.0	.000000	57.6	1.02600	5.3	1.02604	1.0	1.03000
3-10	14.5	1.02618	.0	.000000	13.5	1.02618	.0	.000000	75.5	1.02604	-4.8	1.02596	-1.5	1.02616
3-11	13.6	1.02612	.0	.000000	9.1	1.02640	.0	.000000	59.1	1.02616	3.6	1.02634	.4	1.02644
3-12	8.5	1.02972	.0	.000000	8.7	1.02626	.0	.000000	57.3	1.02614	-2.5	1.02628	-1.9	1.02632
3-13	9.8	1.02622	.0	.000000	4.6	1.02798	.0	.000000	60.3	1.02628	2.0	1.02622	1.0	1.02646
3-14	3.5	1.02624	.0	.000000	2.1	1.02658	.0	.000000	28.4	1.02634	-.7	1.02624	-.5	1.02632
4- 1	35.3	1.03032	.0	.000000	59.6	1.03000	.0	.000000	.0	.000000	8.2	1.02574	5.7	1.02904
4- 2	36.9	1.02584	.0	.000000	48.0	1.03000	.0	.000000	.0	.000000	4.5	1.02608	4.9	1.03000
4- 3	37.4	1.02606	.0	.000000	40.8	1.03000	.0	.000000	.0	.000000	3.1	1.02652	4.3	1.03000
4- 4	35.2	1.02666	.0	.000000	28.2	1.02564	.0	.000000	.0	.000000	2.0	1.02826	2.7	1.03000
4- 5	34.8	1.02854	.0	.000000	25.4	1.02602	.0	.000000	.0	.000000	-1.8	1.02648	1.0	1.03000
4- 6	33.7	1.03000	.0	.000000	22.8	1.02644	.0	.000000	.0	.000000	-1.6	1.02698	-1.1	1.02848
4- 7	30.4	1.03000	.0	.000000	20.2	1.02690	.0	.000000	.0	.000000	-1.3	1.02754	-1.3	1.02954
4- 8	23.9	1.03000	.0	.000000	17.4	1.02744	.0	.000000	.0	.000000	-1.2	1.02872	-1.4	1.03000
4- 9	15.9	1.03000	.0	.000000	14.6	1.02808	.0	.000000	.0	.000000	-1.2	1.02974	-.9	1.03000
4-10	10.0	1.02730	.0	.000000	11.7	1.02908	.0	.000000	.0	.000000	-1.0	1.03000	-.3	1.03000
4-11	7.0	1.02778	.0	.000000	9.3	1.02974	.0	.000000	.0	.000000	.4	1.02836	.2	1.02934
4-12	5.5	1.02800	.0	.000000	7.4	1.02984	.0	.000000	.0	.000000	.3	1.02890	.3	1.03000
4-13	3.1	1.02820	.0	.000000	3.9	1.02992	.0	.000000	.0	.000000	.5	1.02956	.3	1.03000
4-14	1.4	1.02824	.0	.000000	1.6	1.02992	.0	.000000	.0	.000000	.3	1.02958	.2	1.03000
5- 1	35.7	1.02542	.0	.000000	59.9	1.03000	.0	.000000	.0	.000000	8.5	1.02572	5.6	1.03000
5- 2	37.1	1.02568	.0	.000000	51.9	1.03000	.0	.000000	.0	.000000	5.2	1.02598	5.1	1.03000
5- 3	37.2	1.02588	.0	.000000	44.4	1.03000	.0	.000000	.0	.000000	3.3	1.02620	4.5	1.03000
5- 4	36.3	1.02608	.0	.000000	37.3	1.03000	.0	.000000	.0	.000000	2.4	1.02666	3.8	1.03000

5- 5	34.7	1.02778	.0	.00000	27.9	1.02586	.0	.00000	.0	.00000	1.8	1.02856	2.2	1.03000
5- 6	33.7	1.02920	.0	.00000	25.4	1.02614	.0	.00000	.0	.00000	-1.5	1.02660	-.7	1.02760
5- 7	32.3	1.03000	.0	.00000	22.6	1.02644	.0	.00000	.0	.00000	-1.3	1.02712	-1.0	1.02860
5- 8	28.9	1.03000	.0	.00000	19.4	1.02690	.0	.00000	.0	.00000	-1.1	1.02776	-1.3	1.02990
5- 9	21.2	1.03000	.0	.00000	16.3	1.02750	.0	.00000	.0	.00000	-1.1	1.02898	-1.2	1.03000
5-10	13.6	1.03000	.0	.00000	13.7	1.02854	.0	.00000	.0	.00000	-1.1	1.02990	-.7	1.03000
5-11	9.5	1.02702	.0	.00000	11.0	1.02906	.0	.00000	.0	.00000	-.8	1.03000	.2	1.02874
5-12	6.3	1.02706	.0	.00000	8.1	1.02986	.0	.00000	.0	.00000	.3	1.02846	.2	1.02996
5-13	4.7	1.02706	.0	.00000	6.0	1.02992	.0	.00000	.0	.00000	.4	1.02948	.3	1.03000
5-14	1.4	1.02708	.0	.00000	1.6	1.03000	.0	.00000	.0	.00000	.3	1.02958	.2	1.03000

6- 1	35.3	1.00408	.0	.00000	35.2	1.00422	.0	.00000	.0	.00000	-.1	1.00010	-.0	1.00034
6- 2	33.8	1.00410	.0	.00000	33.6	1.00414	.0	.00000	.0	.00000	-.1	1.00022	-.0	1.00058
6- 3	32.2	1.00412	.0	.00000	32.1	1.01222	.0	.00000	.0	.00000	-.1	1.00036	-.0	1.00082
6- 4	30.7	1.00416	.0	.00000	30.6	1.01216	.0	.00000	.0	.00000	-.0	1.00052	-.0	1.00122
6- 5	27.6	1.00362	.0	.00000	27.5	1.02838	.0	.00000	.0	.00000	-.0	1.00096	-.0	1.00196
6- 6	24.5	1.00352	.0	.00000	24.4	1.02822	.0	.00000	.0	.00000	-.0	1.00146	-.0	1.00290
6- 7	21.4	1.00508	.0	.00000	21.3	1.02810	.0	.00000	.0	.00000	-.0	1.00210	-.0	1.00400
6- 8	18.3	1.01170	.0	.00000	18.3	1.00304	.0	.00000	.0	.00000	-.0	1.00284	-.0	1.00658
6- 9	15.3	1.01126	.0	.00000	15.3	1.00294	.0	.00000	.0	.00000	-.0	1.00362	-.0	1.00684
6-10	12.2	1.01114	.0	.00000	12.2	1.00298	.0	.00000	.0	.00000	-.0	1.00464	-.0	1.01124
6-11	9.1	1.01110	.0	.00000	9.1	1.00274	.0	.00000	.0	.00000	.0	1.00310	-.0	1.01198
6-12	6.0	1.00262	.0	.00000	6.0	1.00540	.0	.00000	.0	.00000	-.0	1.00836	-.0	1.01210
6-13	4.4	1.00260	.0	.00000	4.4	1.00254	.0	.00000	.0	.00000	-.0	1.00868	-.0	1.01216
6-14	1.3	1.00258	.0	.00000	1.3	1.00254	.0	.00000	.0	.00000	.0	1.00464	-.0	1.01220

7- 1	35.3	1.00032	.0	.00000	35.1	1.03000	.0	.00000	.0	.00000	-.1	1.00008	-.0	1.00042
7- 2	33.0	1.00074	.0	.00000	32.8	1.00010	.0	.00000	.0	.00000	-.1	1.00030	-.0	1.00068
7- 3	31.4	1.00094	.0	.00000	31.3	1.00024	.0	.00000	.0	.00000	-.0	1.00044	-.0	1.00106
7- 4	28.3	1.00194	.0	.00000	28.2	1.00054	.0	.00000	.0	.00000	-.0	1.00088	-.0	1.00174
7- 5	25.2	1.00352	.0	.00000	25.2	1.00094	.0	.00000	.0	.00000	-.0	1.00136	-.0	1.00264
7- 6	22.1	1.00020	.0	.00000	22.1	1.00140	.0	.00000	.0	.00000	-.0	1.00194	-.0	1.00370
7- 7	19.0	1.01418	.0	.00000	19.0	1.00196	.0	.00000	.0	.00000	-.0	1.00266	-.0	1.00466
7- 8	16.0	1.01066	.0	.00000	15.9	1.00268	.0	.00000	.0	.00000	-.0	1.00348	-.0	1.00684
7- 9	12.9	1.01076	.0	.00000	12.9	1.002436	.0	.00000	.0	.00000	-.0	1.00476	-.0	1.00692
7-10	9.8	1.01082	.0	.00000	9.8	1.00480	.0	.00000	.0	.00000	-.0	1.00296	-.0	1.01186
7-11	6.7	1.01076	.0	.00000	6.7	1.00504	.0	.00000	.0	.00000	-.0	1.00836	-.0	1.01206
7-12	5.2	1.01026	.0	.00000	5.2	1.00504	.0	.00000	.0	.00000	-.0	1.00856	-.0	1.01214
7-13	2.9	1.00996	.0	.00000	2.9	1.00506	.0	.00000	.0	.00000	.0	1.00470	-.0	1.01222
7-14	1.3	1.00986	.0	.00000	1.3	1.00500	.0	.00000	.0	.00000	.0	1.00470	-.0	1.01224

8- 1	35.6	1.00020	.0	.00000	35.2	1.00012	.0	.00000	.0	.00000	-.1	1.00010	-.0	1.00034
8- 2	33.9	1.00032	.0	.00000	33.7	1.00022	.0	.00000	.0	.00000	-.1	1.00022	-.0	1.00058
8- 3	32.3	1.00042	.0	.00000	32.2	1.00032	.0	.00000	.0	.00000	-.1	1.00036	-.0	1.00082
8- 4	30.7	1.00052	.0	.00000	30.7	1.00044	.0	.00000	.0	.00000	-.0	1.00052	-.0	1.00122
8- 5	27.6	1.00066	.0	.00000	27.6	1.00064	.0	.00000	.0	.00000	-.0	1.00096	-.0	1.00196
8- 6	24.5	1.00080	.0	.00000	24.5	1.00084	.0	.00000	.0	.00000	-.0	1.00146	-.0	1.00290
8- 7	21.4	1.00096	.0	.00000	21.4	1.00102	.0	.00000	.0	.00000	-.0	1.00210	-.0	1.00400
8- 8	18.3	1.00114	.0	.00000	18.3	1.00116	.0	.00000	.0	.00000	-.0	1.00284	-.0	1.00658
8- 9	15.3	1.00134	.0	.00000	15.3	1.00132	.0	.00000	.0	.00000	-.0	1.00362	-.0	1.00684
8-10	12.2	1.00150	.0	.00000	12.2	1.00148	.0	.00000	.0	.00000	-.0	1.00464	-.0	1.01124
8-11	9.1	1.00164	.0	.00000	9.1	1.00162	.0	.00000	.0	.00000	.0	1.00310	-.0	1.01198
8-12	6.0	1.00172	.0	.00000	6.0	1.00172	.0	.00000	.0	.00000	-.0	1.00836	-.0	1.01210
8-13	4.5	1.00174	.0	.00000	4.5	1.00174	.0	.00000	.0	.00000	-.0	1.00868	-.0	1.01216
8-14	1.3	1.00176	.0	.00000	1.3	1.00176	.0	.00000	.0	.00000	.0	1.00464	-.0	1.01220

9- 1	71.8	1.00022	.0	.00000	78.7	1.02560	.0	.00000	.0	.00000	-.0	1.00008	-.0	1.00058
9- 2	65.6	1.00070	.0	.00000	65.6	1.02554	.0	.00000	.0	.00000	-.0	1.00034	-.0	1.00118

9- 3	52.5	1.00230	.0	.00000	52.5	1.02532	.0	.00000	.0	.00000	-.0	1.00068	-.0	1.00208
9- 4	39.4	1.00314	.0	.00000	39.4	1.02514	.0	.00000	.0	.00000	-.0	1.00102	-.0	1.00386
9- 5	26.2	1.00362	.0	.00000	26.2	1.02494	.0	.00000	.0	.00000	-.0	1.00140	-.0	1.00504
9- 6	13.1	1.03392	.0	.00000	13.1	1.02498	.0	.00000	.0	.00000	-.0	1.00198	-.0	1.00542

10- 1	.0	.00000	.0	.00000	.0	.00000	-1.5	1.00916	.0	.00000	.0	.00000	.0	.00000
10- 2	.0	.00000	.0	.00000	.0	.00000	-1.5	1.00910	.0	.00000	.1	1.01696	.0	1.00754
10- 3	.0	.00000	.0	.00000	.0	.00000	-1.5	1.00916	.0	.00000	.1	1.00844	.0	1.00716
10- 4	.0	.00000	.0	.00000	.0	.00000	-1.5	1.00936	.0	.00000	.1	1.01216	.0	1.00792
10- 5	.0	.00000	.0	.00000	.0	.00000	-1.5	1.00936	.0	.00000	.0	1.01294	.0	1.00954
10- 6	.0	.00000	.0	.00000	.0	.00000	-1.5	1.00924	.0	.00000	.1	1.01090	.0	1.01414

SUMMARY OF MAXIMUM SPRING PACK FORCES

SP PK	LEFT SIDE		RIGHT SIDE	
	FORCE	TIME	FORCE	TIME
2	-1.51	1.009200	3.57	1.030000
3	-1.53	1.009160	3.39	1.030000
4	-1.54	1.009360	3.23	1.027400
5	-1.53	1.009160	3.33	1.027580
6	-1.52	1.009240	3.40	1.027720
7	-1.50	1.009220	3.50	1.018240

SUMMARY OF MAXIMUM CORE SUPPORT POST LOADS

I(ELEMENT)	FVL(I)	TIME	FVR(I)	TIME	FHL(I)	TIME	FHR(I)	TIME
1	98.1	1.03000	92.7	1.02302	.0	.00000	.0	.00000
2	111.7	1.00000	126.4	1.02952	.0	.00000	.0	.00000
3	111.7	1.00000	113.3	1.00418	.0	.00000	.0	.00000
4	82.7	1.00000	83.3	1.02554	.0	.00000	.0	.00000

SUMMARY OF MAXIMUM CORE FLOOR ELEMENT LATERAL IMPACT LOADS

I(ELEMENT)	FRL(I)	TIME	FRL(I)	TIME	FRL(I)	TIME	FRL(I)	TIME
1	4.0	1.03000	.0	.00000	33.3	1.02552	36.1	1.02548
2	33.3	1.02552	36.1	1.02548	.0	.00000	.0	.00000
3	.0	.00000	.0	.00000	.0	.00000	.0	.00000
4	.0	.00000	.0	.00000	.0	.00000	.0	.00000

MAXIMUM RELATIVE DISPLACEMENT BETWEEN FLOOR ELEMENTS AND PCRV

I(ELEMENT)	UREL(I)	TIME	WREL(I)	TIME
1	.0046	1.03000	-.0001	1.02594
2	.0156	1.03000	-.0002	1.03000
3	.0184	1.03000	-.0002	1.00468
4	.0184	1.03000	-.0001	1.00300

RESTART DECK

1500	231				
-1.416569471-02	-1.443455764-02	-1.458655682-02	-1.446240836-02	-1.433455304-02	
-1.423260523-02	0.000000000	0.000000000	0.000000000	0.000000000	
0.000000000	0.000000000	-1.464794491-05	-1.938958212-05	-5.145873729-06	
1.589735052-05	4.415727062-06	1.114191218-05	-1.414394868-02	-1.446016331-02	
-1.463324064-02	-1.469452411-02	-1.468707109-02	-1.468257536-02	-1.972922637-04	
-2.490594961-04	-2.904732755-04	-3.115336510-04	-3.422405825-04	-3.525940665-04	
-1.381997561-05	-1.316693965-05	-1.094304673-05	-8.224834801-06	-6.354781931-06	
-5.752120046-06	-3.041853459-03	-3.220232495-03	-3.425353352-03	-3.716315201-03	
-4.036770392-03	-4.274677694-03	-4.37754032-03	-4.368584603-03	-4.284339899-03	
-4.195049207-03	-4.131458409-03	-4.120752972-03	-4.127000366-03	-4.134640098-03	
-2.612864236-04	-3.183731678-04	-3.726718111-04	-4.507153895-04	-5.440342665-04	
-6.269718536-04	-6.995656677-04	-7.618069358-04	-8.136499091-04	-8.550373896-04	
-8.859169100-04	-9.711644579-04	-9.124612552-04	-9.160329573-04	-1.343142344-05	
-2.505156085-05	-3.421305382-05	-4.301951776-05	-4.083519525-05	-2.844964136-05	
-1.186532753-05	2.599661068-06	1.056026187-05	1.179318312-05	7.220573480-06	
3.167390275-06	5.394234079-08	-5.043064775-07	-2.455291688-03	-2.0188021571-03	
-1.446541151-03	-7.772450044-04	-2.416847146-04	8.807664381-05	2.115500615-04	
1.870351569-04	9.9321173281-05	2.212148543-05	-6.988572236-06	-5.648796548-06	
2.992529751-06	1.139117683-05	-2.717844945-04	-3.408808116-04	-4.192203649-04	
-5.149438948-04	-5.996279635-04	-6.73123492-04	-7.378571026-04	-7.914438611-04	
-8.346755640-04	-8.675546269-04	-8.644491313-04	-8.952970456-04	-9.012945084-04	
-9.036915799-04	5.021860852-05	7.278160410-05	8.969470580-05	8.837208316-05	
-1.951969044-05	4.183009924-05	1.472377403-05	-4.171363466-06	-1.146218688-05	
-9.186454577-06	-4.821887556-06	-1.579812601-06	4.425720235-09	4.232253588-07	
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-1.378941052-04	1.212461848-04	1.980505654-04	1.533397062-04	7.147244742-05	
1.135894203-05	-5.556042517-06	2.029457086-06	1.205469277-05	-2.227321984-04	
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-1.830917106-05	-1.519596401-05	-1.108768470-05	-7.021224292-06	-2.938944505-06	
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6.761934728-07	6.730913071-07	6.736693531-07	6.771210313-07	6.811967845-07	
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-1.009123564+00	-1.026768563+00	0.000000000	0.000000000	0.000000000
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-1.147692957+00	-1.150730744+00	-1.134500772+00	-1.118337885+00	-1.105183810+00
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-1.012999059+00	-1.014796615+00	-1.018273264+00	0.000000000	0.000000000
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-7.165308520-01	-7.070305097-01	-1.515310621-03	4.539543334-04	-1.573943393-07
-5.745440149-06	-3.329887875-06	8.674644203-08	-3.401677910-03	-7.185862932-04
-1.645967368-05	-6.865238561-06	-1.838637050-02	-9.842614233-01	0.000000000
0.000000000	6.123678863+00			

EXIT LOC031571

BFIN

CR

PLOT REQUEST NO

DISC HAS 3 PLOT FRAMES

GENERAL ATOMIC CSD COMPUTER CENTER
1110 EXEC LEVEL 33R2.7-3507

*** RUN NO. 12616 ***

NAME **ROBISO**

WORK ORDER NO. 3273215

RCN 169 ORG 436

BOX NO. 27

EXTENSION **2430 **

START 15:33:31 26JAN78

TERM. 16:17:59 26JAN78

SUBMITTED 1529

REQUESTED FACILITIES

	SUP TIME	PAGES	CARDS-OUT	CARDS-IN	TAPES	PACKS
ESTIMATED	360-SEC	200	1000	-	-	-
ACTUAL	348-SEC	172	137	384	0	0

%COST 6.88 1.10 3.07 0.00 0.00 \$ 11.05

MEMORY CATEGORIES

MEMORY SIZE	0-19K	20-39K	40-59K	60-79K	80-99K	100-149K	150K-UP
TIME (SEC)	12	93	0	242	0	0	0

%COST 0.73 6.72 0.00 22.86 0.00 0.00 0.00 \$ 30.31

DRUM USAGE 5.2 TRACK HRS. \$ 0.68

TOTAL COST \$ 42.04

COMPUTER TASK STATISTICS

	USER		TOTAL	
	TAPE	DRUM/DISC	TAPE	DRUM/DISC
ACCESSES(X10)	0	12	0	240
WORDS TRANSFERRED(X1000)	0	111	0	1698

TASK	REFS.	MEMORY	SUPS(SEC)	TAPE UNITS	DISC PACKS	DRUM/DISC TRACKS
CTRL CARDS	-	1024	2.35	-	-	-
FURPUR	2	11776	8.60	0.00	0.00	51
FOR	15	36352	70.15	0.00	0.00	63
HAP	1	34304	22.57	0.00	0.00	84
PLTPEQ	1	5120	1.54	0.00	0.00	0
A	1	65536	242.32	0.00	0.00	48

INPUT REPEAT														CARD NO.
MCOCO SIMULATION-1/5 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1														1
10	503	4	1	1										2
6	6	14	14	14	14	14	14	6	6					3
1.	1.0599999	.00002												4
246500.	19.36	297000.	21.25											5
800.	580000.	.2	1.31											6
.0	.0													7
.0	.0	.0												8
6	5													9
.011	.068	.0												10
3	2	2	1	2	2	1	3							11
1	5.7	11.968	26.2											12
2	2.83	6.24	6.15											13
3	2.83	3.12	3.07											14
4	2.83	4.68	4.61											15
5	.5	11.968	21.3											16
6	2.83	3.12	2.63											17
5	5	5	5	5	5									18
1	1	1	1	1	1									19
3	3	3	2	2	2	2	2	2	2	3	2	6	I	20
4	3	2	2	2	2	2	2	2	2	3	4	3	6	III
3	3	3	2	2	2	2	2	2	2	3	2	6	IV	21
3	3	3	2	2	2	2	2	2	2	3	2	6	V	22
4	3	2	2	2	2	2	2	2	2	3	4	3	6	VI
3	3	3	2	2	2	2	2	2	2	3	2	6	VII	23
1	1	1	1	1	1	1	1	1	1	1	1	1	VIII	24
5	5	5	5	5	5									25
0.0														26
23760.	1.866	.0	.0	.2	40.									27
2														28
.0	.0	.0												29
12	12	32	24	39	39	39	39	27	27	39	39	39	39	30
24	32	12	12											31
1	1	2	3	3	4	4	5	5	6	6				32
1	1	2	3	3	4	4	5	5	6	6				33
-1.	1.	-1.	1.	-1.	1.	-1.	1.	-1.	1.	-1.	1.	-1.	1.	CARD 18
-1.	1.	-1.	1.	-1.	1.	-1.	1.	-1.	1.	-1.	1.	-1.	1.	CARD 19
1	2	2	3	3	4	4	5	5	6	6	6	7	7	2L-1-20
1	1	1	2	2	2	2	3	3	3	3	4	4	4	2R-1-21
1	1	1	2	2	2	2	3	3	3	3	4	4	4	CARD 18
1	1	1	2	2	2	2	3	3	3	3	4	4	4	CARD 19
1.	-1.	1.	-1.	1.	-1.	1.	-1.	1.	-1.	1.	-1.	1.	-1.	3L-1-20
1.	-1.	-1.	1.	-1.	1.	-1.	1.	-1.	1.	-1.	1.	-1.	1.	3L-2-20
-1.	1.	-1.	1.	-1.	1.	-1.	1.	-1.	1.	-1.	1.	-1.	1.	3L-3-20
-.479	.043	.564	1.	-1.	-.393	.65	1.	-1.	-.307	.735	1.	-1.	-.222	3R-1-21
.821	1.	-1.	-.136	.906	1.	-1.	-.572	.471	1.					3R-2-21
1	1	2	2	3	3	3	4	4	5	5	6	6	7	CARD 18
131414														18A
1	2	2	2	3	3	3	4	4	5	5	6	6	7	CARD 19
131414														19A
.333	1.0	-1.0	0.0	1.0	-1.0	-0.5	1.0	-1.0	-0.5	1.0	-1.0	-0.5	1.0	4L-1-20
-1.0	-0.5	1.0	-1.0	-0.5	1.0	-1.0	-0.5	1.0	-1.0	-0.5	1.0	-1.0	-0.5	4L-2-20

INPUT REPEAT

CARD
NO.

[illegible]

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INPUT REPEAT

CARD
NO.

-1. 1. -1. 1. -1. 1. -1. 1. -1. 1. -1. 1.	10R-1-21	101
12 37 51 51 27 51 51 37 12		102
1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 10 10 11 11 12 12		103
1 1 2 1 3 2 4 2 5 3 6 3 7 4 7 5 8 6 9 6 10 7 11 7 12 8 12 9 13 10 14 10 15 11 16 11 3	KSLR	104
17 12 17 13 18 14 19 14 20 15 21 15 22 16 22 17 23 18 24 18 25 19 26 19 27 20 27 21 28 22 29 22 30 23 31 23 3	KSLR	105
32 24	3 KSLR	106
1 1 1 2 2 3 3 3 4 4 4 5 5 6 6 6 7 7 7 8 8 9 9 9 10 10 10 11 11 12 12 13 13 13 14 4	KSLR	107
14 15 15 16 16 16 17 17 18 18 18 19 19 19 20 20 21 21 21 22 22 22 23 23 24 24 24 25 25 25 26 26 27 27 27 4	KSLR	108
28 28 28 29 29 30 30 30 31 31 31 32 32 33 33 33 34 34 34 35 35 36 36 36 37 37 38 38 39 39 4	KSLR	109
1 1 2 1 3 2 3 3 4 4 5 4 6 5 6 6 7 7 8 7 9 8 9 9 10 10 11 10 12 11 12 12 13 13 14 13 5	KSLR	110
15 14 15 16 16 17 16 18 17 18 18 19 19 20 19 21 20 21 21 22 22 22 23 23 24 24 25 25 26 25 27 26 27 27 5	KSLR	111
26 29 29 28 30 29 30 31 31 32 31 33 32 33 33 34 34 35 34 36 35 36 36 37 37 38 38 39 39 5	KSLR	112
1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 10 10 11 11 12 12 13 13 14 14 15 15 16 16 17 17 18 18 6	KSLR	113
19 19 20 20 21 21 22 22 23 23 24 24 25 25 26 26 27 27 6	KSLR	114
1 1 1 2 2 3 3 3 4 4 5 5 6 6 6 7 7 7 8 8 9 9 9 10 10 10 11 11 12 12 13 13 13 14 7	KSLR	115
14 15 15 16 16 16 17 17 18 18 18 19 19 19 20 20 21 21 21 22 22 22 23 23 24 24 24 25 25 26 26 27 27 27 7	KSLR	116
28 28 28 29 29 30 30 30 31 31 31 32 32 33 33 33 34 34 35 35 36 36 36 37 37 38 38 39 39 7	KSLR	117
1 1 2 1 3 2 3 3 4 4 5 4 6 5 6 6 7 7 8 7 9 8 9 9 10 10 11 10 12 11 12 12 13 13 14 13 8	KSLR	118
15 14 15 16 16 17 16 18 17 18 18 19 19 20 19 21 20 21 21 22 22 22 23 23 24 24 25 25 26 25 27 26 27 27 8	KSLR	119
28 28 29 28 30 29 30 31 31 32 31 33 32 33 33 34 34 35 34 36 35 36 36 37 37 38 38 39 39 8	KSLR	120
1 1 1 2 2 3 2 4 3 5 3 6 4 7 5 7 6 8 6 9 7 10 7 11 8 12 9 12 10 13 10 14 11 15 11 16 9	KSLR	121
12 17 13 17 14 19 14 19 15 20 15 21 16 21 17 22 18 23 18 24 19 25 19 26 20 27 21 27 22 28 22 29 23 30 23 31 9	KSLR	122
24 32	9 KSLR	123
1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 10 10 11 11 12 12		124
4.26024.26024.26024.26024.26024.2602	1 VSF	125
4.26024.26024.26024.26024.26024.2602	1 VDF	126
.0 .0 .0 .0 .0 .0	1 VSFC	127
.0 .0 .0 .0 .0 .0	1 VDFC	128
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		129
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		130
4.26024.26024.26024.26024.26024.2602	2 VSF	131
4.26024.26024.26024.26024.26024.2602	2 VDF	132
.0 .0 .0 .0 .0 .0	2 VSFC	133
.0 .0 .0 .0 .0 .0	2 VDFC	134
.5 .5 .5 .5 .5 1. 1. 1. 1. 1. 1. 1. 1.	3 HSK	135
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	3 HSK	136
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	3 HSK	137
.429	3 HSK	138
.5 .5 .5 .5 .5 1. 1. 1. 1. 1. 1. 1. 1.	3 HDF	139
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	3 HDF	140
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	3 HDF	141
.429	3 HDF	142
2. 2. 2. 1.33331. 1. 1. 1. 1. 1. 1. 1. 1.33333	3 VSF	143
1.33331.263	3 VSF	144
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	3 VDF	145
.922	3 VDF	146
.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	3 VSFC	147
.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	3 VSFC	148
.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	3 VDFC	149
.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	3 VDFC	150

INPUT REPEAT														CARD NO.
.5	.5	.75	.5	.5	.5	.5	1.	.5	1.	1.	1.	4	HSK	151
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	4	HSK	152
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	4	HSK	153
1.	1.	1.	.5	1.	.5	.5	.75	.5	1.	.75	.5	4	HSK	154
1.	.429	.429										4	HSK	155
.5	.5	.75	.5	.5	.5	.5	1.	.5	1.	1.	1.	4	HDF	156
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	4	HDF	157
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	4	HDF	158
1.	1.	1.	.5	1.	.5	.5	.75	.5	1.	.75	.5	4	HDF	159
1.	.429	.429										4	HDF	160
1.3333	1.6	1.3333	1.	1.	1.	1.	1.	1.	1.	1.3333	1.6	4	VSF	161
1.6	1.847											4	VSF	162
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	4	VDF	163
1.	.922											4	VDF	164
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	VSFC	165
.0	.0											4	VSFC	166
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	VDFC	167
.0	.0											4	VDFC	168
.5	.5	.75	.5	.5	.5	.5	1.	.5	1.	1.	1.	5	HSK	169
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	5	HSK	170
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	5	HSK	171
1.	1.	1.	.5	1.	.5	.5	.75	.5	1.	.75	.5	5	HSK	172
1.	.429	.429										5	HSK	173
.5	.5	.75	.5	.5	.5	.5	1.	.5	1.	1.	1.	5	HDF	174
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	5	HDF	175
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	5	HDF	176
1.	1.	1.	.5	1.	.5	.5	.75	.5	1.	.75	.5	5	HDF	177
1.	.429	.429										5	HDF	178
2.	2.	2.	1.3333	1.	1.	1.	1.	1.	1.	1.	1.3333	5	VSF	179
1.3333	1.263											5	VSF	180
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	5	VDF	181
1.	.922											5	VDF	182
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	VSFC	183
.0	.0											5	VSFC	184
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	VDFC	185
.0	.0											6	VDFC	186
.5	.5	.5	.5	.5	1.	1.	1.	1.	1.	1.	1.	6	HSK	187
1.	1.	1.	1.	1.	1.	1.	1.	1.	.5	.5	1.	6	HSK	188
1.	.429	.429										6	HSK	189
.5	.5	.5	.5	.5	1.	1.	1.	1.	1.	1.	1.	6	HDF	190
1.	1.	1.	1.	1.	1.	1.	1.	1.	.5	.5	1.	6	HDF	191
1.	.429	.429										6	HDF	192
2.	2.	2.	1.3333	1.	1.	1.	1.	1.	1.	1.	1.3333	6	VSF	193
1.3333	1.263											6	VSF	194
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	6	VDF	195
1.	.922											6	VDF	196
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	VSFC	197
.0	.0											6	VSFC	198
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	VDFC	199
.0	.0											6	VDFC	200

INPUT REPEAT

CARD
NO.

[illegible]

INPUT REPEAT					CARD NO.	
-----	-1.419804073-05	-1.006810726-05	-5.950234026-06	-1.791061393-06	2.446691781-06	301
-----	6.767622040-06	1.114659926-05	1.555464322-05	1.885276311-05	2.214663527-05	302
-----	2.541185677-05	-2.437184503-04	-3.002892299-04	-3.542756676-04	-4.313820791-04	303
-----	-5.238351296-04	-6.059329753-04	-6.776751397-04	-7.390612009-04	-7.900907149-04	304
-----	-8.307632670-04	-8.610785299-04	-8.760468190-04	-8.871372702-04	-8.906442672-04	305
-----	6.843022365-07	6.860727241-07	6.873416964-07	6.853200460-07	6.824167897-07	306
-----	6.318430620-07	6.342852827-07	6.885494415-07	6.925458109-07	6.948000659-07	307
-----	6.952567444-07	6.949737794-07	6.947154390-07	6.946628091-07	-2.093195189-05	308
-----	-1.835917178-05	-1.519596401-05	-1.100768470-05	-7.021224292-06	-2.938944505-06	309
-----	1.202631815-06	5.440121527-06	9.739780694-06	1.407215575-05	1.733558383-05	310
-----	2.005439956-05	2.275247425-05	2.490061684-05	-2.713258364-04	-3.404043491-04	311
-----	-4.194242065-04	-5.144276147-04	-5.990772479-04	-6.733730625-04	-7.373150147-04	312
-----	-7.909030755-04	-8.341372013-04	-8.670173993-04	-8.639124930-04	-8.947610258-04	313
-----	-9.007587578-04	-9.031560548-04	6.868862883-07	6.849289775-07	6.815677622-07	314
-----	6.761934728-07	6.730913071-07	6.736683531-07	6.771220313-07	6.811987845-07	315
-----	6.836717007-07	6.645579179-07	6.841562623-07	6.837685973-07	6.835566211-07	316
-----	6.835009927-07	-2.147502551-05	-1.937599836-05	-1.730633176-05	-1.419803766-05	317
-----	-1.006810578-05	-5.952234595-06	-1.791062445-06	2.446691553-06	6.767623802-06	318
-----	1.114660188-05	1.554643495-05	1.885276515-05	2.214663596-05	2.541185631-05	319
-----	-2.397455119-04	-2.962922190-04	-3.502548498-04	-4.273232080-04	-5.197238715-04	320
-----	-6.017722444-04	-6.734680286-04	-7.348138824-04	-7.858078170-04	-8.264510179-04	321
-----	-8.567437908-04	-8.717015153-04	-8.827840793-04	-8.862885807-04	6.883022001-07	322
-----	6.880726033-07	6.873413696-07	6.853196126-07	6.824162000-07	6.818424367-07	323
-----	6.842850304-07	6.845492496-07	6.925458891-07	6.947999651-07	6.952585281-07	324
-----	6.949734939-07	6.947150482-07	6.946623969-07	-1.316545217-05	-7.978404369-06	325
-----	-2.326513156-06	3.599690984-06	9.591458138-06	1.544970246-05	-1.972961836-04	326
-----	-2.493634333-04	-2.904771900-04	-3.215375327-04	-3.422444242-04	-3.525978718-04	327
-----	3.899202738-07	4.177420117-07	4.400831095-07	4.549120618-07	4.625473596-07	328
-----	4.647172425-07	-1.809685049-02	-1.809666865-02	-1.809901372-02	-1.810903871-02	329
-----	-1.810524939-02	-1.807231107-02	0.600000000	0.000000000	0.000000000	330
-----	0.600000000	0.000000000	0.000000000	-1.022766627-08	2.251952402-08	331
-----	-4.365787980-07	-1.266641178-06	1.862815253-06	3.450334086-06	-1.382431597-02	332
-----	-2.825693489-03	-2.410783372-05	-1.642015354-05	-1.351715655-04	-1.825990839-04	333
-----	-1.825619601-04	-1.351715728-04	-1.048966806-05	6.544762812-06	6.880418653-07	334
-----	3.593097236-07	-7.184832096-01	-7.785890948-01	-9.397104457-01	-1.050828904+00	335
-----	-1.009123564+00	-1.026788563+00	0.000000000	0.000000000	0.000000000	336
-----	0.000000000	0.000000000	0.000000000	-1.035923801-02	6.187940016-03	337
-----	-3.377452741-02	1.100905449-02	-3.417469794-03	4.716432377-04	-7.814907581-01	338
-----	-7.845619917-01	-8.135503680-01	-8.886768222-01	-9.704805911-01	-1.052031860+00	339
-----	-2.219133002-07	-2.428505645-07	-1.299468781-07	-1.666686495-07	-1.782309607-07	340
-----	-2.893354676-07	-5.089954182-03	-6.413521332-04	-3.465069569-03	-6.193142559-03	341
-----	-6.855917629-03	-7.179433949-03	-7.256520838-01	-6.957175359-01	-6.856568530-01	342
-----	-7.04107059-01	-7.772270516-01	-8.853198066-01	-1.004431844+00	-1.096703428+00	343
-----	-1.147692973+00	-1.150730744+00	-1.134500772+00	-1.118337895+00	-1.105183010+00	344
-----	-1.088965669+00	3.434743354-03	4.220932256-03	4.443306825-03	4.071263364-03	345
-----	2.645700253-03	6.463045866-04	-1.619433373-03	-3.692222090-03	-5.137836677-03	346
-----	-5.775236117-03	-5.742515146-03	-5.474698788-03	-5.201395426-03	-5.094614578-03	347
-----	-2.42259067-03	-5.886483705-04	-1.076720088-03	-4.628964060-03	-1.159890404-02	348
-----	-1.594174816-02	-1.629321497-02	-1.258198824-02	-6.618218671-03	-1.207643698-03	349
-----	2.275599139-03	3.608292735-03	4.863521433-03	5.035549577-03	-6.835024208-01	350

INPUT REPEAT					CARD NO.
-6.480699852-01	-5.778474063-01	-4.442334846-01	-2.689516358-01	-8.840568829-02	351
5.116348015-02	1.167868497-01	1.091791382-01	6.058204547-02	2.134352666-02	352
-8.671927266-03	-3.357375180-02	-5.450028926-02	6.099146412-05	6.019345074-05	353
4.709383631-05	6.196289291-06	-5.449811033-05	-1.308015362-04	-2.058870778-04	354
-2.528276309-04	-2.509488222-04	-2.006833856-04	-1.445660801-04	-9.909060918-05	355
-6.841704089-05	-5.507645574-05	5.605242972-03	9.027291788-03	1.328948000-02	356
1.991119725-02	2.442505467-02	2.397932718-02	1.780177350-02	8.099280996-03	357
-1.047446625-03	-6.632020173-03	-8.246167345-03	-8.937834646-03	-9.077764116-03	358
-9.103933387-03	-6.875029728-01	-6.608470380-01	-6.194199396-01	-5.349927843-01	359
-3.882867806-01	-2.116512731-01	-4.477214953-02	7.030886970-02	1.113183564-01	360
9.017316625-02	4.235932836-02	9.673513938-03	-2.022666740-02	-5.107066175-02	361
-3.383890667-03	-4.170103755-03	-4.397306009-03	-4.038738203-03	-2.634367032-03	362
-6.677721467-04	1.549404333-03	3.552344016-03	4.914867459-03	5.471109704-03	363
5.372579035-03	5.067333346-03	4.765779187-03	4.649936222-03	3.898971714-03	364
7.267185545-03	1.031699555-02	1.510885044-02	2.125129267-02	2.422592067-02	365
2.191431099-02	1.449230674-02	4.977547796-03	-2.679625817-03	-6.598288692-03	366
-7.566761109-03	-8.041165443-03	-8.080771659-03	-1.530782116-03	-1.462736269-03	367
-1.327802514-03	-1.038410672-03	-5.774870951-04	-8.464394614-05	3.422551526-04	368
6.427609114-04	6.041975088-04	8.525848607-04	6.324325691-04	7.928751147-04	369
7.509107309-04	7.242951469-04	9.896511165-05	1.529751789-04	2.062421790-04	370
2.845965191-04	3.845670362-04	4.782104916-04	5.640502350-04	6.406220290-04	371
7.067149636-04	7.609209933-04	8.023307528-04	8.232091204-04	8.387115231-04	372
8.437075685-04	1.581053482-06	1.892072214-05	3.477818564-05	5.505179161-05	373
6.875495455-05	6.734759427-05	5.398062785-05	3.512754847-05	1.741941287-05	374
4.988199407-06	-1.424048250-06	-3.019373622-06	-3.718734149-06	-3.747338923-06	375
-1.514612595-03	-1.406807598-03	-1.148608761-03	-7.089648861-04	-2.104653377-04	376
2.453125271-04	5.860509409-04	7.845644141-04	8.553964726-04	8.383066015-04	377
7.894308057-04	7.359084484-04	6.900551452-04	6.586948075-04	-3.573918434-06	378
-4.616907347-06	-5.861774355-06	-7.501425785-06	-8.970925251-06	-1.022634115-05	379
-1.136845471-05	-1.226521397-05	-1.308668311-05	-1.362111618-05	-1.390822047-05	380
-1.404981947-05	-1.412276777-05	-1.421707316-05	9.136560493-06	2.915394225-05	381
5.055413672-05	6.762598332-05	6.986642347-05	5.894809055-05	4.052419945-05	382
2.136140506-05	6.452863270-06	-2.367134697-06	-5.11886785-06	-6.329467737-06	383
-6.619136741-06	-6.665729700-06	-1.530703105-03	-1.462736371-03	-1.327801656-03	384
-1.038409246-03	-5.774858146-04	-8.464403691-05	3.422543887-04	6.427594417-04	385
8.041956971-04	8.525840603-04	8.324314258-04	7.928738851-04	7.509093775-04	386
7.242935317-04	-1.065124325-04	-1.627112870-04	-2.182325716-04	-3.000014149-04	387
-4.040923268-04	-5.014715061-04	-5.908232652-04	-6.705139749-04	-7.392189218-04	388
-7.955470501-04	-8.365263209-04	-8.600874644-04	-8.763148217-04	-8.814496032-04	389
1.581355150-06	1.892086198-05	3.478055846-05	5.505249919-05	6.875436520-05	390
6.734748331-05	5.398044686-05	3.512752301-05	1.741930873-05	4.988302635-06	391
-1.423694812-06	-3.019679411-06	-3.718731989-06	-3.747280715-06	3.803901068-04	392
2.456010458-04	8.342999172-05	-9.736076845-05	-2.853724436-04	-4.695307180-04	393
1.66366369-07	1.854464831-07	3.088700418-07	3.595597882-07	3.171332530-07	394
3.167721830-07	-9.069636803-06	-1.105100841-05	-1.260778788-05	-1.364418540-05	395
-1.417509202-05	-1.432552801-05	-1.009708330+00	-1.010584950+00	-1.010782659+00	396
-1.012998059+00	-1.014796615+00	-1.018273264+00	0.000000000	0.000000000	397
0.000000000	0.000000000	0.000000000	0.000000000	-4.157120202-05	398
-1.002219578-04	7.276796420-05	-4.544285694-04	1.221032762-04	-7.280996288-04	399
-7.165308520-01	-7.020305097-01	-1.515310621-03	4.539543334-04	-1.573943393-07	400

INPUT REPEAT

CARD
NO.

-5.745440149-06 -3.329887875-06 8.674644203-08 -3.401677910-03 -7.185882932-04
 -1.645967368-05 -6.865238561-06 -1.838637050-02 -9.842614233-01 0.000000000
 0.000000000 6.123678863+00
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CARD 30

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AADD,P DOWELFORCE*TESTCASES.SH450

-1.947+00-3.170+00-4.887+00-6.475+00-8.153+00-1.047+01-1.333+01-1.613+01
 -1.869+01-2.129+01-2.391+01-2.613+01-2.779+01-2.932+01-3.100+01-3.255+01
 -3.374+01-3.489+01-3.644+01-3.825+01-3.993+01-4.150+01-4.306+01-4.428+01
 -4.460+01-4.401+01-4.285+01-4.116+01-3.869+01-3.538+01-3.144+01-2.696+01
 -2.164+01-1.608+01-9.822+00-3.206+00 3.768+00 1.114+01 1.880+01 2.646+01
 3.369+01 4.108+01 4.792+01 5.405+01 5.916+01 6.334+01 6.674+01 6.899+01
 6.948+01 6.818+01 6.555+01 6.170+01 5.637+01 4.960+01 4.198+01 3.407+01
 2.620+01 1.870+01 1.195+01 6.158+00 1.359+00-2.223+00-3.837+00-2.513+00
 2.205+00 1.004+01 2.026+01 3.196+01 4.413+01 5.560+01 6.609+01 7.423+01
 7.937+01 8.060+01 7.741+01 7.002+01 5.925+01 4.639+01 3.304+01 2.048+01
 9.321+00 9.310+02-6.112+00-8.178+00-5.719+00 9.252+01 1.109+01 2.373+01
 3.748+01 5.127+01 6.456+01 7.669+01 8.656+01 9.336+01 9.710+01 9.803+01
 9.617+01 9.190+01 8.635+01 8.034+01 7.381+01 6.651+01 5.879+01 5.121+01
 4.384+01 3.648+01 2.904+01 2.139+01 1.308+01 3.803+00-5.819+00-1.440+01
 -2.398+01-2.574+01-2.922+01-3.137+01-3.193+01-3.158+01-3.140+01-3.171+01
 -3.229+01-3.348+01-3.601+01-3.968+01-4.341+01-4.651+01-4.911+01-5.132+01
 -5.291+01-5.408+01-5.523+01-5.592+01-5.530+01-5.364+01-5.246+01-5.310+01
 -5.595+01-6.067+01-6.658+01-7.256+01-7.754+01-8.131+01-8.398+01-8.501+01
 -8.320+01-7.771+01-6.999+01-5.854+01-4.799+01-3.837+01-2.986+01-2.193+01
 -1.363+01-5.187+00 3.674+00 1.198+01 1.894+01 2.386+01 2.613+01 2.538+01
 2.158+01 1.489+01 5.467+00-6.153+00-1.859+01-3.016+01-3.939+01-4.490+01
 -4.525+01-3.915+01-2.596+01-5.169+00 2.382+01 6.047+01 1.021+02 1.444+02
 1.832+02 2.149+02 2.368+02 2.468+02 2.439+02 2.286+02 2.026+02 1.691+02
 1.317+02 9.464+01 6.061+01 3.077+01 5.745+00-1.352+01-2.593+01-3.159+01
 -3.167+01-2.824+01-2.177+01-1.381+01-6.035+00 3.255+01 4.641+00 6.158+00
 4.163+00-6.665+01-7.617+00-1.255+01-1.734+01-2.230+01-2.829+01-3.591+01
 -4.566+01-5.798+01-7.286+01-8.967+01-1.071+02-1.239+02-1.390+02-1.506+02
 -1.576+02-1.596+02-1.582+02-1.551+02-1.512+02-1.469+02-1.421+02-1.368+02
 -1.311+02-1.252+02-1.200+02-1.155+02-1.103+02-1.032+02-9.407+01-8.305+01
 -6.976+01-5.358+01-3.469+01-1.393+01 7.647+00 2.837+01 4.611+01 5.920+01
 6.725+01 7.128+01 7.353+01 7.734+01 8.668+01 1.049+02 1.338+02 1.733+02
 2.215+02 2.759+02 3.324+02 3.857+02 4.300+02 4.607+02 4.748+02 4.708+02
 4.491+02 4.119+02 3.636+02 3.088+02 2.526+02 2.009+02 1.599+02 1.336+02
 1.235+02 1.288+02 1.472+02 1.756+02 2.100+02 2.460+02 2.790+02 3.048+02
 3.196+02 3.209+02 3.004+02 2.833+02 2.482+02 2.052+02 1.556+02 1.005+02
 4.214+01-1.653+01-7.311+01-1.264+02-1.758+02-2.207+02-2.609+02-2.972+02
 -3.309+02-3.612+02-3.867+02-4.062+02-4.206+02-4.314+02-4.383+02-4.410+02
 -4.394+02-4.341+02-4.269+02-4.168+02-4.089+02-4.048+02-4.048+02-4.082+02
 -4.142+02-4.214+02-4.282+02-4.330+02-4.353+02-4.352+02-4.327+02-4.270+02
 -4.150+02-4.061+02-3.917+02-3.756+02-3.585+02-3.397+02-3.173+02-2.892+02
 -2.551+02-2.165+02-1.748+02-1.303+02-8.268+01-3.282+01 1.683+01 6.299+01
 1.022+02 1.308+02 1.465+02 1.487+02 1.385+02 1.175+02 8.865+01 5.318+01
 1.756+01-1.620+01-4.255+01-5.777+01-5.834+01-4.256+01-1.161+01 3.196+01
 8.529+01 1.452+02 2.079+02 2.690+02 3.231+02 3.650+02 3.908+02 3.993+02
 3.907+02 3.657+02 3.255+02 2.717+02 2.053+02 1.287+02 4.708+01-3.277+01
 -1.055+02-1.690+02-2.236+02-2.694+02-3.064+02-3.351+02-3.571+02-3.739+02

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INPUT REPEAT

CARD
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-3.871+02-3.980+02-4.075+02-4.156+02-4.209+02-4.211+02-4.142+02-3.992+02
-3.757+02-3.454+02-3.107+02-2.737+02-2.363+02-2.007+02-1.700+02-1.472+02
-1.342+02-1.313+02-1.386+02-1.557+02-1.811+02-2.123+02-2.467+02-2.810+02
-3.118+02-3.343+02-3.448+02-3.399+02-3.171+02-2.749+02-2.135+02-1.353+02
-4.365+01 5.673+01 1.601+02 2.603+02 3.515+02 4.291+02 4.900+02 5.320+02
5.537+02 5.553+02 5.403+02 5.142+02 4.821+02 4.466+02 4.087+02 3.703+02
3.343+02 3.732+02 2.783+02 2.594+02 2.459+02 2.369+02 2.314+02 2.291+02
2.309+02 2.392+02 2.569+02 2.851+02 3.235+02 3.710+02 4.249+02 4.821+02
5.396+02 5.881+02 6.224+02 6.344+02 6.201+02 5.785+02 5.116+02 4.227+02
3.162+02 1.968+02 7.131+01-5.028+01-1.566+02-2.395+02-2.959+02-3.271+02
-3.354+02-3.233+02-2.942+02-2.522+02-2.022+02-1.496+02-9.950+01-5.565+01
-1.999+01 6.655+00 2.390+01 3.135+01 2.996+01 2.118+01 6.234+00-1.426+01
-3.992+01-7.108+01-1.093+02-1.564+02-2.124+02-2.742+02-3.366+02-3.937+02
-4.401+02-4.708+02-4.616+02-4.684+02-4.283+02-3.613+02-2.721+02-1.685+02
-5.995+01 4.498+01 1.385+02 2.143+02 2.695+02 3.048+02 3.721+02 3.231+02
3.110+02 2.919+02 2.734+02 2.614+02 2.575+02 2.598+02 2.655+02 2.722+02
2.780+02 2.816+02 2.811+02 2.737+02 2.580+02 2.357+02 2.110+02 1.878+02
1.638+02 1.576+02 1.587+02 1.743+02 2.022+02 2.358+02 2.677+02 2.924+02
3.056+02 3.047+02 2.886+02 2.588+02 2.185+02 1.721+02 1.253+02 8.450+01
5.400+01 3.496+01 2.613+01 2.558+01 3.144+01 4.105+01 4.947+01 5.025+01
3.532+01 1.435+01-2.087+01-6.314+01-1.082+02-1.514+02-1.881+02-2.148+02
-2.292+02-2.253+02-2.068+02-1.737+02-1.323+02-8.935+01-5.128+01-2.222+01
-3.515+00 5.953+00 8.646+00 6.298+00-1.032+00-1.279+01-2.614+01-3.637+01
-3.935+01-3.419+01-2.297+01-8.541+00 6.981+00 2.244+01 3.760+01 5.167+01
6.219+01 6.628+01 6.240+01 5.118+01 3.476+01 1.555+01-3.679+00-1.957+01
-2.922+01-3.139+01-2.506+01-8.811+00 1.759+01 5.190+01 9.046+01 1.297+02
1.661+02 1.966+02 2.189+02 2.325+02 2.367+02 2.303+02 2.125+02 1.846+02
1.503+02 1.135+02 7.654+01 4.091+01 4.471+00-2.924+01-6.081+01-9.022+01
-1.164+02-1.370+02-1.506+02-1.566+02-1.546+02-1.450+02-1.281+02-1.052+02
-7.938+01-5.445+01-3.421+01-2.086+01-1.550+01-1.859+01-3.011+01-4.911+01
-7.455+01-1.040+02-1.769+02-1.706+02-2.016+02-2.257+02-2.396+02-2.431+02
-2.392+02-2.318+02-2.243+02-2.184+02-2.144+02-2.119+02-2.102+02-2.083+02
-2.054+02-2.010+02-1.948+02-1.860+02-1.735+02-1.572+02-1.378+02-1.160+02
-9.162+01-6.611+01-4.154+01-2.175+01-9.555+00-6.287+00-1.783+01-2.981+01
-5.625+01-8.957+01-1.270+02-1.652+02-1.999+02-2.266+02-2.430+02-2.484+02
-2.416+02-2.206+02-1.842+02-1.348+02-7.720+01-1.657+01 4.285+01 9.750+01
1.436+02 1.768+02 1.939+02 1.942+02 1.796+02 1.533+02 1.194+02 8.242+01
4.598+01 1.140+01-2.005+01-4.640+01-6.571+01-7.744+01-8.356+01-8.629+01
-8.724+01-8.827+01-9.110+01-9.651+01-1.045+02-1.145+02-1.257+02-1.365+02
-1.444+02-1.474+02-1.456+02-1.404+02-1.330+02-1.245+02-1.165+02-1.121+02
-1.128+02-1.178+02-1.250+02-1.317+02-1.359+02-1.361+02-1.305+02-1.175+02
-9.569+01-6.401+01-2.289+01 2.519+01 7.694+01 1.288+02 1.762+02 2.138+02
2.376+02 2.400+02 2.400+02 2.215+02 1.937+02 1.601+02 1.234+02 8.600+01
5.158+01 2.474+01 8.767+00 4.312+00 9.857+00 2.334+01 4.206+01 6.326+01
8.525+01 1.081+02 1.324+02 1.576+02 1.827+02 2.070+02 2.307+02 2.532+02
2.731+02 2.894+02 3.014+02 3.079+02 3.060+02 2.939+02 2.745+02 2.475+02
2.118+02 1.693+02 1.212+02 7.033+01 1.890+01-3.303+01-8.311+01-1.260+02
-1.536+02-1.830+02-2.031+02-2.199+02-2.330+02-2.421+02-2.472+02-2.479+02
-2.446+02-2.397+02-2.351+02-2.301+02-2.233+02-2.150+02-2.065+02-1.995+02
-1.953+02-1.961+02-2.037+02-2.173+02-2.348+02-2.551+02-2.763+02-3.027+02

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INPUT REPEAT

CARD
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-3.240+02-3.381+02-3.409+02-3.287+02-2.983+02-2.494+02-1.847+02-1.083+02
 -2.428+01 6.331+01 1.494+02 2.281+02 2.944+02 3.447+02 3.770+02 3.915+02
 3.908+02 3.794+02 3.598+02 3.333+02 3.013+02 2.667+02 2.326+02 2.009+02
 1.710+02 1.416+02 1.126+02 8.421+01 5.810+01 3.590+01 1.876+01 7.118+00
 1.407+00 2.576+00 1.143+01 2.832+01 5.276+01 8.303+01 1.163+02 1.493+02
 1.460+02 2.066+02 2.277+02 2.416+02 2.464+02 2.408+02 2.237+02 1.945+02
 1.540+02 1.044+02 4.600+01-1.893+01-8.970+01-1.633+02-2.348+02-2.993+02
 -3.540+02-3.974+02-4.276+02-4.425+02-4.397+02-4.178+02-3.777+02-3.218+02
 -2.531+02-1.747+02-9.010+01-3.589+00 7.926+01 1.523+02 2.104+02 2.504+02
 2.715+02 2.750+02 2.623+02 2.354+02 1.972+02 1.522+02 1.063+02 6.504+01
 3.161+01 8.615+00-2.541+00-1.476+00 1.219+01 3.776+01 7.342+01 1.164+02
 1.624+02 2.055+02 2.406+02 2.651+02 2.781+02 2.793+02 2.693+02 2.488+02
 2.168+02 1.803+02 1.346+02 8.461+01 3.429+01-1.322+01-5.547+01-9.124+01
 -1.205+02-1.439+02-1.625+02-1.769+02-1.858+02-1.873+02-1.804+02-1.659+02
 -1.455+02-1.216+02-9.645+01-7.217+01-5.065+01-3.461+01-2.748+01-3.267+01
 -5.294+01-8.926+01-1.414+02-2.067+02-2.797+02-3.536+02-4.215+02-4.767+02
 -5.145+02-5.313+02-5.250+02-4.959+02-4.470+02-3.828+02-3.087+02-2.303+02
 -1.524+02-7.662+01-1.193+01 4.494+01 9.046+01 1.249+02 1.506+02 1.714+02
 1.912+02 2.127+02 2.361+02 2.596+02 2.809+02 2.979+02 3.091+02 3.118+02
 3.329+02 2.794+02 2.451+02 1.870+02 1.260+02 6.573+01 1.620+01-1.460+01
 -2.178+01-3.027+00 4.141+01 1.089+02 1.950+02 2.938+02 3.977+02 4.966+02
 5.805+02 6.419+02 6.766+02 6.832+02 6.626+02 6.168+02 5.495+02 4.662+02
 3.747+02 2.832+02 1.978+02 1.228+02 5.981+01 9.284+00-2.954+01-5.790+01
 -7.727+01-8.945+01-9.658+01-1.014+02-1.071+02-1.154+02-1.265+02-1.387+02
 -1.497+02-1.541+02-1.526+02-1.456+02-1.363+02-1.276+02-1.206+02-1.150+02
 -1.113+02-1.110+02-1.146+02-1.213+02-1.298+02-1.388+02-1.470+02-1.530+02
 -1.565+02-1.579+02-1.572+02-1.543+02-1.491+02-1.422+02-1.348+02-1.290+02
 -1.265+02-1.288+02-1.316+02-1.493+02-1.645+02-1.796+02-1.935+02-2.050+02
 -2.116+02-2.098+02-1.969+02-1.725+02-1.391+02-9.997+01-5.655+01-9.776+00
 3.784+01 6.144+01 1.163+02 1.390+02 1.464+02 1.362+02 1.072+02 5.936+01
 -4.192+00-7.827+01-1.574+02-2.360+02-3.774+02-3.653+02-4.043+02-4.217+02
 -4.169+02-3.908+02-3.461+02-2.876+02-2.216+02-1.534+02-8.709+01-2.555+01
 2.974+01 7.272+01 1.042+02 1.228+02 1.295+02 1.257+02 1.125+02 9.173+01
 6.504+01 3.395+01-1.011+00-3.928+01-7.855+01-1.145+02-1.429+02-1.613+02
 -1.678+02-1.612+02-1.410+02-1.080+02-6.292+01-6.806+00 5.924+01 1.330+02
 2.108+02 2.876+02 3.580+02 4.173+02 4.619+02 4.898+02 4.994+02 4.903+02
 4.629+02 4.190+02 3.620+02 2.953+02 2.246+02 1.540+02 8.966+01 3.651+01
 -1.542+00-2.133+01-2.067+01 7.656+01 4.080+01 9.541+01 1.596+02 2.275+02
 2.925+02 3.487+02 3.914+02 4.165+02 4.207+02 4.023+02 3.619+02 3.024+02
 2.278+02 1.423+02 5.051+01-4.272+01-1.320+02-2.130+02-2.823+02-3.374+02
 -3.768+02-4.006+02-4.100+02-4.066+02-3.920+02-3.681+02-3.373+02-3.026+02
 -2.670+02-2.326+02-2.015+02-1.733+02-1.472+02-1.220+02-9.679+01-7.151+01
 -4.707+01-2.464+01-4.564+00 1.338+01 2.977+01 4.464+01 5.658+01 6.297+01
 6.128+01 4.994+01 2.859+01-1.104+00-3.757+01-7.932+01-1.246+02-1.714+02
 -2.128+02-2.474+02-2.731+02-2.766+02-2.653+02-2.348+02-1.859+02-1.205+02
 -4.237+01 4.277+01 1.275+02 2.039+02 2.651+02 3.055+02 3.224+02 3.150+02
 2.850+02 2.361+02 1.727+02 1.010+02 2.811+01-3.791+01-8.974+01-1.223+02
 -1.337+02-1.255+02-1.012+02-6.456+01-2.061+01 2.462+01 6.484+01 9.525+01
 1.136+02 1.193+02 1.131+02 9.655+01 7.223+01 4.348+01 1.396+01-1.305+01
 -3.521+01-5.130+01-6.134+01-6.629+01-6.746+01-6.682+01-6.684+01-6.938+01

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INPUT REPEAT

CARD
NO.

-7.514+01-8.402+01-9.532+01-1.081+02-1.211+02-1.316+02-1.365+02-1.334+02 147
-1.218+02-1.042+02-8.452+01-6.662+01-5.339+01-4.701+01-4.952+01-6.223+01 148
-8.466+01-1.145+02-1.482+02-1.825+02-2.144+02-2.417+02-2.617+02-2.715+02 149
-2.683+02-2.505+02-2.188+02-1.771+02-1.301+02-8.241+01-3.815+01 0.000 150

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MCOCO SIMULATION-1/5 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1 CARD 1

PRINT INTERVAL = 500
NO. OF COLUMNS = 10
NO. OF PLOTS = 4

A RESTART DECK WILL BE PUNCHED.
A RESTART DECK WILL BE READ.

INTEGRATION STARTING TIME = 1.0000
INTEGRATION ENDING TIME = 1.0600
INTEGRATION TIME STEP = .000020

CENTRAL DIFFERENCE INTEGRATION METHOD IS USED 0

TOTAL NUMBER OF COLUMNS, NCOL, = 10

TOTAL NUMBER OF EQUATIONS FOR FUEL ELEMENTS = 324

NEMAX = 14

NCOL1 = 9

NINT = 11

COLUMN NO. 1 HAS 6 BLOCKS

COLUMN NO. 2 HAS 6 BLOCKS

COLUMN NO. 3 HAS 14 BLOCKS

COLUMN NO. 4 HAS 14 BLOCKS

COLUMN NO. 5 HAS 14 BLOCKS

COLUMN NO. 6 HAS 14 BLOCKS

COLUMN NO. 7 HAS 14 BLOCKS

COLUMN NO. 8 HAS 14 BLOCKS

COLUMN NO. 9 HAS 6 BLOCKS

COLUMN NO. 10 HAS 6 BLOCKS

EQUATION NUMBERING SYSTEM

FUEL COLUMNS AND REFLECTOR COLUMNS

COL

1

1

7

13

2

8

14

3

9

15

4

10

16

5

11

17

6

12

18

COL

2

19	25	31
20	26	32
21	27	33
22	28	34
23	29	35
24	30	36

COL

3

37	51	65
38	52	66
39	53	67
40	54	68
41	55	69
42	56	70
43	57	71
44	58	72
45	59	73
46	60	74
47	61	75
48	62	76
49	63	77
50	64	78

COL

4

79	93	107
80	94	108
81	95	109
82	96	110
83	97	111
84	98	112
85	99	113
86	100	114
87	101	115
88	102	116
89	103	117
90	104	118
91	105	119
92	106	120

COL

5

121	135	149
122	136	150
123	137	151
124	138	152
125	139	153
126	140	154
127	141	155
128	142	156
129	143	157
130	144	158
131	145	159
132	146	160
133	147	161
134	148	162

COL

6	163	177	191
	164	178	192
	165	179	193
	166	180	194
	167	181	195
	168	182	196
	169	183	197
	170	184	198
	171	185	199
	172	186	200
	173	187	201
	174	188	202
	175	189	203
	176	190	204
COL 7	205	219	233
	206	220	234
	207	221	235
	208	222	236
	209	223	237
	210	224	238
	211	225	239
	212	226	240
	213	227	241
	214	228	242
	215	229	243
	216	230	244
	217	231	245
	218	232	246
COL 8	247	261	275
	248	262	276
	249	263	277
	250	264	278
	251	265	279
	252	266	280
	253	267	281
	254	268	282
	255	269	283
	256	270	284
	257	271	285
	258	272	286
	259	273	287
	260	274	288
COL 9	289	295	301
	290	296	302
	291	297	303
	292	298	304
	293	299	305
	294	300	306
COL 10	307	313	319

308	314	320
309	315	321
310	316	322
311	317	323
312	318	324

11	325	329	333
	326	330	334
	327	331	335
	328	332	336

TOTAL NUMBER OF EQUATIONS(NO. OF QS),NDINT = 336

NUMBER OF BLOCK TYPE = 6

NUMBER OF GAP TYPE = 3

GAP TYPE	GAP VALUE, INCH
1	.011
2	.068
3	.000

ELEM TYPE	WIDTH, IN	HEIGHT, IN	WEIGHT, LB
1	5.700	11.968	26.200
2	2.830	6.240	6.150
3	2.830	3.120	3.070
4	2.830	4.680	4.610
5	.500	11.968	21.300
6	2.830	3.120	2.630

AT COL-TO-COL INTERFACE NO. 2

THE GAPS ARE (ACCORDING TO ELEM NUMBERS ON LEFT)

.0000 .0000 .0000 .0000 .0000 .0000

AT COL-TO-COL INTERFACE NO. 3

THE GAPS ARE (ACCORDING TO ELEM NUMBERS ON LEFT)

.0110 .0110 .0110 .0110 .0110 .0110 .0110 .0110 .0110 .0110 .0110 .0110 .0110

AT COL-TO-COL INTERFACE NO. 4

THE GAPS ARE (ACCORDING TO ELEM NUMBERS ON LEFT)

.0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680

AT COL-TO-COL INTERFACE NO. 5

THE GAPS ARE (ACCORDING TO ELEM NUMBERS ON LEFT)

.0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680

AT COL-TO-COL INTERFACE NO. 6

THE GAPS ARE (ACCORDING TO ELEM NUMBERS ON LEFT)

.0110 .0110 .0110 .0110 .0110 .0110 .0110 .0110 .0110 .0110 .0110 .0110 .0110
 .0110

AT COL-TO-COL INTERFACE NO. 7

THE GAPS ARE (ACCORDING TO ELEM NUMBERS ON LEFT)

.0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680
 .0680

AT COL-TO-COL INTERFACE NO. 8

THE GAPS ARE (ACCORDING TO ELEM NUMBERS ON LEFT)

.0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680 .0680
 .0680

AT COL-TO-COL INTERFACE NO. 9

THE GAPS ARE (ACCORDING TO ELEM NUMBERS ON LEFT)

.0110 .0110 .0110 .0110 .0110 .0110

AT COL-TO-COL INTERFACE NO. 10

THE GAPS ARE (ACCORDING TO ELEM NUMBERS ON LEFT)

.0000 .0000 .0000 .0000 .0000 .0000

COLUMN NO. 1, 6 ELEMENTS

ELEMENT WEIGHTS FOR COLUMN NO. 1

21.30 21.30 21.30 21.30 21.30 21.30

ELEMENT HALF WIDTH, (H/2) = .25

ELEMENT HALF LENGTH, (H/2)

5.98 5.98 5.98 5.98 5.98 5.98

ELEMENT MASSES

.5512-01 .5512-01 .5512-01 .5512-01 .5512-01 .5512-01

ELEMENT ROTARY INERTIA

.6591+00 .6591+00 .6591+00 .6591+00 .6591+00 .6591+00

TOTAL WEIGHT FOR THIS COLUMN = 127.80 LBS
 VERTICAL PRELOAD = .00 LBS

COLUMN NO. 2, 6 ELEMENTS

ELEMENT WEIGHTS FOR COLUMN NO. 2

26.20 26.20 26.20 26.20 26.20 26.20

ELEMENT HALF WIDTH, (H/2) = 2.85

ELEMENT HALF LENGTH, (H/2)

5.98 5.98 5.98 5.98 5.98 5.98

ELEMENT MASSES

.6781-01 .6781-01 .6781-01 .6781-01 .6781-01 .6781-01

ELEMENT ROTARY INERTIA

.9929+00 .9929+00 .9929+00 .9929+00 .9929+00 .9929+00

TOTAL WEIGHT FOR THIS COLUMN = 157.20 LBS
VERTICAL PRELOAD= .00 LBS

COLUMN NO. 3, 14 ELEMENTS

ELEMENT WEIGHTS FOR COLUMN NO. 3

3.07 3.07 3.07 6.15 6.15 6.15 6.15 6.15 6.15 6.15
6.15 3.07 6.15 2.63

ELEMENT HALF WIDTH, B(IIC)= 1.42

ELEMENT HALF LENGTH, H(IIC)

1.56 1.56 1.56 3.12 3.12 3.12 3.12 3.12 3.12 3.12
3.12 1.56 3.12 1.56

ELEMENT MASSES

.7945-02 .7945-02 .7945-02 .1592-01 .1592-01 .1592-01 .1592-01 .1592-01 .1592-01 .1592-01
.1592-01 .7945-02 .1592-01 .6806-02

ELEMENT ROTARY INERTIA

.1175-01 .1175-01 .1175-01 .6227-01 .6227-01 .6227-01 .6227-01 .6227-01 .6227-01 .6227-01
.6227-01 .1175-01 .6227-01 .1006-01

TOTAL WEIGHT FOR THIS COLUMN = 70.26 LBS
VERTICAL PRELOAD= .00 LBS

COLUMN NO. 4, 14 ELEMENTS

ELEMENT WEIGHTS FOR COLUMN NO. 4

4.61 3.07 6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.15
3.07 4.61 3.07 2.63

ELEMENT HALF WIDTH, B(IIC)= 1.42

ELEMENT HALF LENGTH, H(IIC)

2.34 1.56 3.12 3.12 3.12 3.12 3.12 3.12 3.12 3.12
1.56 2.34 1.56 1.56

ELEMENT MASSES

.1193-01 .7945-02 .1592-01 .1592-01 .1592-01 .1592-01 .1592-01 .1592-01 .1592-01 .1592-01
.7945-02 .1193-01 .7945-02 .6806-02

ELEMENT ROTARY INERTIA

.2974-01 .1175-01 .6227-01 .6227-01 .6227-01 .6227-01 .6227-01 .6227-01 .6227-01 .6227-01
.1175-01 .2974-01 .1175-01 .1006-01

TOTAL WEIGHT FOR THIS COLUMN = 70.26 LBS
VERTICAL PRELOAD= .00 LBS

COLUMN NO. 5, 14 ELEMENTS

ELEMENT WEIGHTS FOR COLUMN NO. 5

3.07	3.07	3.07	6.15	6.15	6.15	6.15	6.15	6.15
6.15	3.07	6.15	2.63					

ELEMENT HALF WIDTH, B(1C)= 1.42

ELEMENT HALF LENGTH, H(1I)

1.56	1.56	1.56	3.12	3.12	3.12	3.12	3.12	3.12
3.12	1.56	3.12	1.56					

ELEMENT MASSES

.7945-02	.7945-02	.7945-02	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01
.1592-01	.7945-02	.1592-01	.6806-02						

ELEMENT ROTARY INERTIA

.1175-01	.1175-01	.1175-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01
.6227-01	.1175-01	.6227-01	.1006-01						

TOTAL WEIGHT FOR THIS COLUMN = 70.26 LBS

VERTICAL PRELOAD= .00 LBS

COLUMN NO. 6, 14 ELEMENTS

ELEMENT WEIGHTS FOR COLUMN NO. 6

3.07	3.07	3.07	6.15	6.15	6.15	6.15	6.15	6.15
6.15	3.07	6.15	2.63					

ELEMENT HALF WIDTH, B(1C)= 1.42

ELEMENT HALF LENGTH, H(1I)

1.56	1.56	1.56	3.12	3.12	3.12	3.12	3.12	3.12
3.12	1.56	3.12	1.56					

ELEMENT MASSES

.7945-02	.7945-02	.7945-02	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01
.1592-01	.7945-02	.1592-01	.6806-02						

ELEMENT ROTARY INERTIA

.1175-01	.1175-01	.1175-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01
.6227-01	.1175-01	.6227-01	.1006-01						

TOTAL WEIGHT FOR THIS COLUMN = 70.26 LBS

VERTICAL PRELOAD= .00 LBS

COLUMN NO. 7, 14 ELEMENTS

ELEMENT WEIGHTS FOR COLUMN NO. 7

4.61	3.07	6.15	6.15	6.15	6.15	6.15	6.15	6.15
3.07	4.61	3.07	2.63					

ELEMENT HALF WIDTH, B(1C)= 1.42

ELEMENT HALF LENGTH, H(I)

2.34	1.56	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12
1.56	2.34	1.56	1.56						

ELEMENT MASSES

.1193-01	.7945-02	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01
.7945-02	.1193-01	.7945-02	.6806-02						

ELEMENT ROTARY INERTIA

.2974-01	.1175-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01
.1175-01	.2974-01	.1175-01	.1006-01						

TOTAL WEIGHT FOR THIS COLUMN = 70.26 LBS

VERTICAL PRELOAD= .00 LBS

COLUMN NO. 8, 14 ELEMENTS

ELEMENT WEIGHTS FOR COLUMN NO. 8

3.07	3.07	3.07	6.15	6.15	6.15	6.15	6.15	6.15	6.15
6.15	3.07	6.15	2.63						

ELEMENT HALF WIDTH, B(I,C)= 1.42

ELEMENT HALF LENGTH, H(I)

1.56	1.56	1.56	3.12	3.12	3.12	3.12	3.12	3.12	3.12
3.12	1.56	3.12	1.56						

ELEMENT MASSES

.7945-02	.7945-02	.7945-02	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01	.1592-01
.1592-01	.7945-02	.1592-01	.6806-02						

ELEMENT ROTARY INERTIA

.1175-01	.1175-01	.1175-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01	.6227-01
.6227-01	.1175-01	.6227-01	.1006-01						

TOTAL WEIGHT FOR THIS COLUMN = 70.26 LBS

VERTICAL PRELOAD= .00 LBS

COLUMN NO. 9, 6 ELEMENTS

ELEMENT WEIGHTS FOR COLUMN NO. 9

26.20	26.20	26.20	26.20	26.20	26.20
-------	-------	-------	-------	-------	-------

ELEMENT HALF WIDTH, B(I,C)= 2.85

ELEMENT HALF LENGTH, H(I)

5.98	5.98	5.98	5.98	5.98	5.98
------	------	------	------	------	------

ELEMENT MASSES

.6781-01	.6781-01	.6781-01	.6781-01	.6781-01	.6781-01
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ELEMENT ROTARY INERTIA

.9929+00 .9929+00 .9929+00 .9929+00 .9929+00 .9929+00

TOTAL WEIGHT FOR THIS COLUMN = 157.20 LBS
VERTICAL PRELOAD= .00 LBS

COLUMN NO.10, 6 ELEMENTS

ELEMENT WEIGHTS FOR COLUMN NO.10
21.30 21.30 21.30 21.30 21.30 21.30

ELEMENT HALF WIDTH, B(1C)= .25

ELEMENT HALF LENGTH, H(1I)
5.98 5.98 5.98 5.98 5.98 5.98

ELEMENT MASSES
.5512-01 .5512-01 .5512-01 .5512-01 .5512-01 .5512-01

ELEMENT ROTARY INERTIA
.6591+00 .6591+00 .6591+00 .6591+00 .6591+00 .6591+00

TOTAL WEIGHT FOR THIS COLUMN = 127.80 LBS
VERTICAL PRELOAD= .00 LBS

PARAMETERS FOR SPRINGS AND DAMPERS

K VALUE OF VERTICAL SPRINGS = .297+06
 C VALUE OF VERTICAL SPRING= 21.25
 K OF LATERAL SPRING= .246+06
 C OF LATERAL DAMPER= 19.36
 DOWEL GAP(RIGHT)= .0000
 DOWEL GAP(LEFT)= .0000
 DOWEL K = .238+05
 DOWEL DAMPING CONSTANT,CDW= 1.8660
 COEFF. OF FRICTION= .20
 CONSTANT FOR INITIAL SLOPE OF COULOMB FRICTION= .400+02

K OF CENTER SPRING,VERTICAL,= .000
 C OF CENTER SPRING,VERTICAL,= .00

CSQU= .000
 CSQW= .000
 CSCT= .000

PARAMETERS FOR BILINEAR SPRINGS

K1 = .80000+03
 K2 = .58000+06
 CSP = .13100+01
 DISTANCE TRAVELLED BEFORE K2 BECOMES EFFECTIVE = .20 INCH
 NOTE THAT K2 MUST BE GREATER THAN K1

RIGHT HAND SPRING PACK GAPS
 .0000 .0000 .0000 .0000 .0000 .0000

LEFT HAND SPRING PACK GAPS
 .0000 .0000 .0000 .0000 .0000 .0000

ROTATIONAL SPRING RATE = .00000 IN-LB/RAD
 KEYWAY CONSTRAINT SPRING RATE = .00000 LB/IN
 SIDE REFLTR CONSTRAINT SPRING RATE= .00000 LB/IN

FUEL ELEMENT STAGGERING PATTERN

INTRCN FORCE NUMBER			ELEM NO		OFFSET			
			LEFT	RIGHT	LEFT	RIGHT		

AT THE 2 ND COL-TO-COL INTERFACE								
1	1	1	1	1	-1.00	-1.00		
2	2	2	1	1	1.00	1.00		
3	3	3	2	2	-1.00	-1.00		
4	4	4	2	2	1.00	1.00		
5	5	5	3	3	-1.00	-1.00		
6	6	6	3	3	1.00	1.00		
7	7	7	4	4	-1.00	-1.00		
8	8	8	4	4	1.00	1.00		
9	9	9	5	5	-1.00	-1.00		
10	10	10	5	5	1.00	1.00		
11	11	11	6	6	-1.00	-1.00		
12	12	12	6	6	1.00	1.00		

AT THE 3 RD COL-TO-COL INTERFACE								
1	1	1	1	1	1.00	-.48		
2	2	1	2	1	-1.00	-.48		
3	3	2	2	1	1.00	.04		
4	4	2	3	1	-1.00	.04		
5	5	3	3	1	1.00	.56		
6	6	3	4	1	-1.00	.56		
7	7	4	4	1	-.16	1.00		
8	7	5	4	2	-.16	-1.00		
9	8	6	4	2	1.00	-.39		
10	9	6	5	2	-1.00	-.39		
11	10	7	5	2	1.00	.65		
12	11	7	6	2	-1.00	.65		
13	12	8	6	2	-.33	1.00		
14	12	9	6	3	-.33	-1.00		
15	13	10	6	3	1.00	-.31		
16	14	10	7	3	-1.00	-.31		
17	15	11	7	3	1.00	.73		
18	16	11	8	3	-1.00	.73		
19	17	12	8	3	-.49	1.00		
20	17	13	8	4	-.49	-1.00		
21	18	14	8	4	1.00	-.22		
22	19	14	9	4	-1.00	-.22		
23	20	15	9	4	1.00	.82		
24	21	15	10	4	-1.00	.82		
25	22	16	10	4	-.66	1.00		
26	22	17	10	5	-.66	-1.00		
27	23	18	10	5	1.00	-.14		
28	24	18	11	5	-1.00	-.14		
29	25	19	11	5	1.00	.91		
30	26	19	12	5	-1.00	.91		
31	27	20	12	5	-.64	1.00		
32	27	21	12	6	-.64	-1.00		

33	28	22	12	6	1.00	-.57
34	29	22	13	6	-1.00	-.57
35	30	23	13	6	1.00	.47
36	31	23	14	6	-1.00	.47
37	32	24	14	6	1.00	1.00

AT THE 4 TH COL-TO-COL INTERFACE

1	1	1	1	1	.33	1.00
2	1	2	1	2	.33	-1.00
3	2	3	1	2	1.00	.00
4	3	3	2	2	-1.00	.00
5	4	4	2	2	.00	1.00
6	4	5	2	3	.00	-1.00
7	5	6	2	3	1.00	.00
8	6	6	3	3	-1.00	.00
9	7	7	3	3	-.50	1.00
10	7	8	3	4	-.50	-1.00
11	8	9	3	4	1.00	.50
12	9	9	4	4	-1.00	.50
13	10	10	4	4	-.50	1.00
14	10	11	4	5	-.50	-1.00
15	11	12	4	5	1.00	.50
16	12	12	5	5	-1.00	.50
17	13	13	5	5	-.50	1.00
18	13	14	5	6	-.50	-1.00
19	14	15	5	6	1.00	.50
20	15	15	6	6	-1.00	.50
21	16	16	6	6	-.50	1.00
22	16	17	6	7	-.50	-1.00
23	17	18	6	7	1.00	.50
24	18	18	7	7	-1.00	.50
25	19	19	7	7	-.50	1.00
26	19	20	7	8	-.50	-1.00
27	20	21	7	8	1.00	.50
28	21	21	8	8	-1.00	.50
29	22	22	8	8	-.50	1.00
30	22	23	8	9	-.50	-1.00
31	23	24	8	9	1.00	.50
32	24	24	9	9	-1.00	.50
33	25	25	9	9	-.50	1.00
34	25	26	9	10	-.50	-1.00
35	26	27	9	10	1.00	.50
36	27	27	10	10	-1.00	.50
37	28	28	10	10	-.50	1.00
38	28	29	10	11	-.50	-1.00
39	29	30	10	11	1.00	.50
40	30	30	11	11	-1.00	.50
41	31	31	11	11	.00	1.00
42	31	32	11	12	.00	-1.00
43	32	33	11	12	1.00	.00
44	33	33	12	12	-1.00	.00
45	34	34	12	12	-.33	1.00
46	34	35	12	13	-.33	-1.00
47	35	36	12	13	1.00	.00
48	36	36	13	13	-1.00	.00

49	37	37	13	13	1.00	1.00
50	38	38	14	14	-1.00	-1.00
51	39	39	14	14	1.00	1.00

AT THE 5 TH COL-TO-COL INTERFACE

1	1	1	1	1	1.00	.33
2	2	1	2	1	-1.00	.33
3	3	2	2	1	.00	1.00
4	3	3	2	2	.00	-1.00
5	4	4	2	2	1.00	.00
6	5	4	3	2	-1.00	.00
7	6	5	3	2	.00	1.00
8	6	6	3	3	.00	-1.00
9	7	7	3	3	1.00	-.50
10	8	7	4	3	-1.00	-.50
11	9	8	4	3	.50	1.00
12	9	9	4	4	.50	-1.00
13	10	10	4	4	1.00	-.50
14	11	10	5	4	-1.00	-.50
15	12	11	5	4	.50	1.00
16	12	12	5	5	.50	-1.00
17	13	13	5	5	1.00	-.50
18	14	13	6	5	-1.00	-.50
19	15	14	6	5	.50	1.00
20	15	15	6	6	.50	-1.00
21	16	16	6	6	1.00	-.50
22	17	16	7	6	-1.00	-.50
23	18	17	7	6	.50	1.00
24	18	18	7	7	.50	-1.00
25	19	19	7	7	1.00	-.50
26	20	19	8	7	-1.00	-.50
27	21	20	8	7	.50	1.00
28	21	21	8	8	.50	-1.00
29	22	22	8	8	1.00	-.50
30	23	22	9	8	-1.00	-.50
31	24	23	9	8	.50	1.00
32	24	24	9	9	.50	-1.00
33	25	25	9	9	1.00	-.50
34	26	25	10	9	-1.00	-.50
35	27	26	10	9	.50	1.00
36	27	27	10	10	.50	-1.00
37	28	28	10	10	1.00	-.50
38	29	28	11	10	-1.00	-.50
39	30	29	11	10	.50	1.00
40	30	30	11	11	.50	-1.00
41	31	31	11	11	1.00	.00
42	32	31	12	11	-1.00	.00
43	33	32	12	11	.00	1.00
44	33	33	12	12	.00	-1.00
45	34	34	12	12	1.00	-.33
46	35	34	13	12	-1.00	-.33
47	36	35	13	12	.00	1.00
48	36	36	13	13	.00	-1.00
49	37	37	13	13	1.00	1.00
50	38	38	14	14	-1.00	-1.00

51	39	39	14	14	1.00	1.00
----	----	----	----	----	------	------

AT THE 6 TH COL-TO-COL INTERFACE

1	1	1	1	1	1.00	1.00
2	2	2	2	2	-1.00	-1.00
3	3	3	2	2	1.00	1.00
4	4	4	3	3	-1.00	-1.00
5	5	5	3	3	1.00	1.00
6	6	6	4	4	-1.00	-1.00
7	7	7	4	4	1.00	1.00
8	8	8	5	5	-1.00	-1.00
9	9	9	5	5	1.00	1.00
10	10	10	6	6	-1.00	-1.00
11	11	11	6	6	1.00	1.00
12	12	12	7	7	-1.00	-1.00
13	13	13	7	7	1.00	1.00
14	14	14	8	8	-1.00	-1.00
15	15	15	8	8	1.00	1.00
16	16	16	9	9	-1.00	-1.00
17	17	17	9	9	1.00	1.00
18	18	18	10	10	-1.00	-1.00
19	19	19	10	10	1.00	1.00
20	20	20	11	11	-1.00	-1.00
21	21	21	11	11	1.00	1.00
22	22	22	12	12	-1.00	-1.00
23	23	23	12	12	1.00	1.00
24	24	24	13	13	-1.00	-1.00
25	25	25	13	13	1.00	1.00
26	26	26	14	14	-1.00	-1.00
27	27	27	14	14	1.00	1.00

AT THE 7 TH COL-TO-COL INTERFACE

1	1	1	1	1	.33	1.00
2	1	2	1	2	.33	-1.00
3	2	3	1	2	1.00	.00
4	3	3	2	2	-1.00	.00
5	4	4	2	2	.00	1.00
6	4	5	2	3	.00	-1.00
7	5	6	2	3	1.00	.00
8	6	6	3	3	-1.00	.00
9	7	7	3	3	-.50	1.00
10	7	8	3	4	-.50	-1.00
11	8	9	3	4	1.00	.50
12	9	9	4	4	-1.00	.50
13	10	10	4	4	-.50	1.00
14	10	11	4	5	-.50	-1.00
15	11	12	4	5	1.00	.50
16	12	12	5	5	-1.00	.50
17	13	13	5	5	-.50	1.00
18	13	14	5	6	-.50	-1.00
19	14	15	5	6	1.00	.50
20	15	15	6	6	-1.00	.50
21	16	16	6	6	-.50	1.00

22	16	17	6	7	-.50	-1.00
23	17	18	6	7	1.00	.50
24	18	18	7	7	-1.00	.50
25	19	19	7	7	-.50	1.00
26	19	20	7	8	-.50	-1.00
27	20	21	7	8	1.00	.50
28	21	21	8	8	-1.00	.50
29	22	22	8	8	-.50	1.00
30	22	23	8	9	-.50	-1.00
31	23	24	8	9	1.00	.50
32	24	24	9	9	-1.00	.50
33	25	25	9	9	-.50	1.00
34	25	26	9	10	-.50	-1.00
35	26	27	9	10	1.00	.50
36	27	27	10	10	-1.00	.50
37	28	28	10	10	-.50	1.00
38	28	29	10	11	-.50	-1.00
39	29	30	10	11	1.00	.50
40	30	30	11	11	-1.00	.50
41	31	31	11	11	.00	1.00
42	31	32	11	12	.00	-1.00
43	32	33	11	12	1.00	.00
44	33	33	12	12	-1.00	.00
45	34	34	12	12	-.33	1.00
46	34	35	12	13	-.33	-1.00
47	35	36	12	13	1.00	.00
48	36	36	13	13	-1.00	.00
49	37	37	13	13	1.00	1.00
50	38	38	14	14	-1.00	-1.00
51	39	39	14	14	1.00	1.00

AT THE 8 TH COL-TO-COL INTERFACE

1	1	1	1	1	1.00	.33
2	2	1	2	1	-1.00	.33
3	3	2	2	1	.00	1.00
4	3	3	2	2	.00	-1.00
5	4	4	2	2	1.00	.00
6	5	4	3	2	-1.00	.00
7	6	5	3	2	.00	1.00
8	6	6	3	3	.00	-1.00
9	7	7	3	3	1.00	-.50
10	8	7	4	3	-1.00	-.50
11	9	8	4	3	.50	1.00
12	9	9	4	4	.50	-1.00
13	10	10	4	4	1.00	-.50
14	11	10	5	4	-1.00	-.50
15	12	11	5	4	.50	1.00
16	12	12	5	5	.50	-1.00
17	13	13	5	5	1.00	-.50
18	14	13	6	5	-1.00	-.50
19	15	14	6	5	.50	1.00
20	15	15	6	6	.50	-1.00
21	16	16	6	6	1.00	-.50
22	17	16	7	6	-1.00	-.50
23	18	17	7	6	.50	1.00

24	18	18	7	7	.50	-1.00
25	19	19	7	7	1.00	-.50
26	20	19	8	7	-1.00	-.50
27	21	20	8	7	.50	1.00
28	21	21	8	8	.50	-1.00
29	22	22	8	8	1.00	-.50
30	23	22	9	8	-1.00	-.50
31	24	23	9	8	.50	1.00
32	24	24	9	9	.50	-1.00
33	25	25	9	9	1.00	-.50
34	26	25	10	9	-1.00	-.50
35	27	26	10	9	.50	1.00
36	27	27	10	10	.50	-1.00
37	28	28	10	10	1.00	-.50
38	29	28	11	10	-1.00	-.50
39	30	29	11	10	.50	1.00
40	30	30	11	11	.50	-1.00
41	31	31	11	11	1.00	.00
42	32	31	12	11	-1.00	.00
43	33	32	12	11	.00	1.00
44	33	33	12	12	.00	-1.00
45	34	34	12	12	1.00	-.33
46	35	34	13	12	-1.00	-.33
47	36	35	13	12	.00	1.00
48	36	36	13	13	.00	-1.00
49	37	37	13	13	1.00	1.00
50	38	38	14	14	-1.00	-1.00
51	39	39	14	14	1.00	1.00

AT THE 9 TH COL-TO-COL INTERFACE

1	1	1	1	1	-.48	1.00
2	1	2	1	2	-.46	-1.00
3	2	3	1	2	.04	1.00
4	2	4	1	3	.04	-1.00
5	3	5	1	3	.56	1.00
6	3	6	1	4	.56	-1.00
7	4	7	1	4	1.00	-.16
8	5	7	2	4	-1.00	-.16
9	6	8	2	4	-.39	1.00
10	6	9	2	5	-.39	-1.00
11	7	10	2	5	.65	1.00
12	7	11	2	6	.65	-1.00
13	8	12	2	6	1.00	-.33
14	9	12	3	6	-1.00	-.33
15	10	13	3	6	-.31	1.00
16	10	14	3	7	-.31	-1.00
17	11	15	3	7	.73	1.00
18	11	16	3	8	.73	-1.00
19	12	17	3	8	1.00	-.49
20	13	17	4	8	-1.00	-.49
21	14	18	4	8	-.22	1.00
22	14	19	4	9	-.22	-1.00
23	15	20	4	9	.82	1.00
24	15	21	4	10	.82	-1.00
25	16	22	4	10	1.00	-.66

26	17	22	5	10	-1.00	-.66
27	18	23	5	10	-.14	1.00
28	18	24	5	11	-.14	-1.00
29	19	25	5	11	.91	1.00
30	19	26	5	12	.91	-1.00
31	20	27	5	12	1.00	-.64
32	21	27	6	12	-1.00	-.64
33	22	26	6	12	-.57	1.00
34	22	29	6	13	-.57	-1.00
35	23	30	6	13	.47	1.00
36	23	31	6	14	.47	-1.00
37	24	32	6	14	1.00	1.00

AT THE 10 TH COL-TO-COL INTERFACE

1	1	1	1	1	-1.00	-1.00
2	2	2	1	1	1.00	1.00
3	3	3	2	2	-1.00	-1.00
4	4	4	2	2	1.00	1.00
5	5	5	3	3	-1.00	-1.00
6	6	6	3	3	1.00	1.00
7	7	7	4	4	-1.00	-1.00
8	8	8	4	4	1.00	1.00
9	9	9	5	5	-1.00	-1.00
10	10	10	5	5	1.00	1.00
11	11	11	6	6	-1.00	-1.00
12	12	12	6	6	1.00	1.00

FUEL ELEMENTS IN COLUMN NO. 1

VERTICAL CORNER SPRING CONSTANTS

1.2653+06 1.2653+06 1.2653+06 1.2653+06 1.2653+06 1.2653+06

VERTICAL CORNER DAMPING COEFFICIENTS

9.0529+01 9.0529+01 9.0529+01 9.0529+01 9.0529+01 9.0529+01

VERTICAL CENTER SPRING CONSTANTS

0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

VERTICAL CENTER DAMPING COEFFICIENT

0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

FUEL ELEMENTS IN COLUMN NO. 2

VERTICAL CORNER SPRING CONSTANTS

1.2653+06 1.2653+06 1.2653+06 1.2653+06 1.2653+06 1.2653+06

VERTICAL CORNER DAMPING COEFFICIENTS

9.0529+01 9.0529+01 9.0529+01 9.0529+01 9.0529+01 9.0529+01

VERTICAL CENTER SPRING CONSTANTS

0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

VERTICAL CENTER DAMPING COEFFICIENT

0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

FUEL ELEMENTS IN COLUMN NO. 3

VERTICAL CORNER SPRING CONSTANTS

5.9403+05	5.9403+05	5.9400+05	3.9599+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05
2.9700+05	3.9599+05	3.9599+05	3.7511+05						

VERTICAL CORNER DAMPING COEFFICIENTS

2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01
2.1250+01	2.1250+01	2.1250+01	1.9592+01						

VERTICAL CENTER SPRING CONSTANTS

0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000						

VERTICAL CENTER DAMPING COEFFICIENT

0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000						

FUEL ELEMENTS IN COLUMN NO. 4

VERTICAL CORNER SPRING CONSTANTS

3.9599+05	4.7520+05	3.9599+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05
3.9599+05	4.7520+05	4.7520+05	5.4856+05						

VERTICAL CORNER DAMPING COEFFICIENTS

2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01
2.1250+01	2.1250+01	2.1250+01	1.9592+01						

VERTICAL CENTER SPRING CONSTANTS

0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000						

VERTICAL CENTER DAMPING COEFFICIENT

0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000						

FUEL ELEMENTS IN COLUMN NO. 5

VERTICAL CORNER SPRING CONSTANTS

5.9400+05	5.9400+05	5.9400+05	3.9599+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05
2.9700+05	3.9599+05	3.9599+05	3.7511+05						

VERTICAL CORNER DAMPING COEFFICIENTS

2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01
2.1250+01	2.1250+01	2.1250+01	1.9592+01						

VERTICAL CENTER SPRING CONSTANTS

0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000						

VERTICAL CENTER DAMPING COEFFICIENT

0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000						

FUEL ELEMENTS IN COLUMN NO. 6

VERTICAL CORNER SPRING CONSTANTS

5.9400+05	5.9400+05	5.9400+05	3.9599+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05
2.9700+05	3.9599+05	3.9599+05	3.7511+05						

VERTICAL CORNER DAMPING COEFFICIENTS									
2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01
2.1250+01	2.1250+01	2.1250+01	1.9592+01						

VERTICAL CENTER SPRING CONSTANTS									
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000						

VERTICAL CENTER DAMPING COEFFICIENT									
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000						

FUEL ELEMENTS IN COLUMN NO. 7

VERTICAL CORNER SPRING CONSTANTS									
3.9599+05	4.7520+05	3.9599+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05
3.9599+05	4.7520+05	4.7520+05	5.4856+05						

VERTICAL CORNER DAMPING COEFFICIENTS									
2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01
2.1250+01	2.1250+01	2.1250+01	1.9592+01						

VERTICAL CENTER SPRING CONSTANTS									
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000						

VERTICAL CENTER DAMPING COEFFICIENT									
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000						

FUEL ELEMENTS IN COLUMN NO. 8

VERTICAL CORNER SPRING CONSTANTS									
5.9400+05	5.9400+05	5.9400+05	3.9599+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05	2.9700+05
2.9700+05	3.9599+05	3.9599+05	3.7511+05						

VERTICAL CORNER DAMPING COEFFICIENTS									
2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01	2.1250+01
2.1250+01	2.1250+01	2.1250+01	1.9592+01						

VERTICAL CENTER SPRING CONSTANTS									
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000						

VERTICAL CENTER DAMPING COEFFICIENT									
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000						

FUEL ELEMENTS IN COLUMN NO. 9

VERTICAL CORNER SPRING CONSTANTS					
1.2653+06	1.2653+06	1.2653+06	1.2653+06	1.2653+06	1.2653+06

VERTICAL CORNER DAMPING COEFFICIENTS

9.0529+01 9.0529+01 9.0529+01 9.0529+01 9.0529+01 9.0529+01

VERTICAL CENTER SPRING CONSTANTS

0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

VERTICAL CENTER DAMPING COEFFICIENT

0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

FULL ELEMENTS IN COLUMN NO.10

VERTICAL CORNER SPRING CONSTANTS

1.2653+06 1.2653+06 1.2653+06 1.2653+06 1.2653+06 1.2653+06

VERTICAL CORNER DAMPING COEFFICIENTS

9.0529+01 9.0529+01 9.0529+01 9.0529+01 9.0529+01 9.0529+01

VERTICAL CENTER SPRING CONSTANTS

0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

VERTICAL CENTER DAMPING COEFFICIENT

0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

AT COL-TO-COL INTERFACE NO. 2

HORIZONTAL SPRING CONSTANTS ARE

2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05
2.4650+05 2.4650+05

HORIZONTAL DAMPING COEFFICIENTS ARE

1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01
1.9360+01 1.9360+01

AT COL-TO-COL INTERFACE NO. 3

HORIZONTAL SPRING CONSTANTS ARE

1.2325+05 1.2325+05 1.2325+05 1.2325+05 1.2325+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05
2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05
2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 1.2325+05
2.4650+05 2.4650+05 1.2325+05 2.4650+05 2.4650+05 1.0575+05 1.0575+05

HORIZONTAL DAMPING COEFFICIENTS ARE

9.6800+00 9.6800+00 9.6800+00 9.6800+00 9.6800+00 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01
1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01
1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 1.9360+01 9.6800+00
1.9360+01 1.9360+01 9.6800+00 1.9360+01 1.9360+01 8.3054+00 8.3054+00

AT COL-TO-COL INTERFACE NO. 4

HORIZONTAL SPRING CONSTANTS ARE

1.2325+05 1.2325+05 1.8487+05 1.2325+05 1.2325+05 1.2325+05 1.2325+05 2.4650+05 1.2325+05 2.4650+05
2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05
2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05
2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 2.4650+05 1.2325+05
2.4650+05 1.2325+05 1.2325+05 1.8487+05 1.2325+05 2.4650+05 1.8487+05 1.2325+05 2.4650+05 1.0575+05
1.0575+05

HORIZONTAL DAMPING COEFFICIENTS ARE

HORIZONTAL SPRING CONSTANTS ARE

1.2325+05	1.2325+05	1.8487+05	1.2325+05	1.2325+05	1.2325+05	1.2325+05	2.4650+05	1.2325+05	2.4650+05
2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05
2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05
2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	1.2325+05
2.4650+05	1.2325+05	1.2325+05	1.8487+05	1.2325+05	2.4650+05	1.8487+05	1.2325+05	2.4650+05	1.0575+05

1.0575+05

HORIZONTAL DAMPING COEFFICIENTS ARE

9.6800+00	9.6800+00	1.4520+01	9.6800+00	9.6800+00	9.6800+00	9.6800+00	1.9360+01	9.6800+00	1.9360+01
1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01
1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01
1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	9.6800+00
1.9360+01	9.6800+00	9.6800+00	1.4520+01	9.6800+00	1.9360+01	1.4520+01	9.6800+00	1.9360+01	8.3054+00

8.3054+00

AT COL-TO-COL INTERFACE NO. 9

HORIZONTAL SPRING CONSTANTS ARE

1.2325+05	1.2325+05	1.2325+05	1.2325+05	1.2325+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05
2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05
2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	1.2325+05
2.4650+05	2.4650+05	1.2325+05	2.4650+05	2.4650+05	1.0575+05	1.0575+05			

HORIZONTAL DAMPING COEFFICIENTS ARE

9.6800+00	9.6800+00	9.6800+00	9.6800+00	9.6800+00	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01
1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01
1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	9.6800+00
1.9360+01	1.9360+01	9.6800+00	1.9360+01	1.9360+01	8.3054+00	8.3054+00			

8.3054+00

AT COL-TO-COL INTERFACE NO.10

HORIZONTAL SPRING CONSTANTS ARE

2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05	2.4650+05
2.4650+05	2.4650+05								

HORIZONTAL DAMPING COEFFICIENTS ARE

1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01	1.9360+01
1.9360+01	1.9360+01								

CORE SUPPORT BLOCK PARAMETERS

ELEMENT	WIDTH	HEIGHT	WEIGHT	MASSSES	RTRY INRTIA	UPPER GAPS	LOWER GAPS
	5.700	4.600	8.250	.021	.095	.000	.000
	8.626	4.600	12.670	.033	.261	.011	.011
	8.626	4.600	12.670	.033	.261	.011	.011
	5.700	4.600	8.250	.021	.095	.011	.000
						.011	.000

SUPPORT POST STIFFNESS PARAMETERS

K, VERTICAL = .61200+06
 C, VERTICAL = 61.900+00
 K, LATERAL = .00000
 C, LATERAL = .00000

NORMALIZED B WIDTH FOR FU AND FW

BLOCK NO. 1

FOR HORIZ FORCES, UARM(N,M)

3	2	1
.000	.000	.000

FOR VERT FORCES, WARM(N,M)

6	5	4	3	2	1
.000	.000	.000	.000	-1.000	1.000

BLOCK NO. 2

FOR HORIZ FORCES, UARM(N,M)

3	2	1
-.656	.016	.674

FOR VERT FORCES, WARM(N,M)

6	5	4	3	2	1
-.984	-.328	-.312	.344	.346	1.003

BLOCK NO. 3

FOR HORIZ FORCES, UARM(N,M)

3	2	1
-.656	.016	.674

FOR VERT FORCES, WARM(N,M)

6	5	4	3	2	1
-.984	-.328	-.312	.344	.346	1.003

BLOCK NO. 4

FOR HORIZ FORCES, UARM(N,M)

3	2	1
.000	.000	.004

FOR VERT FORCES, WARM(N,M)

6	5	4	3	2	1
.000	.000	.000	.000	-.996	1.004

CORE SUPPORT BLOCK INDICES

COLUMN IC	FL BLK N	FOR FW M	FOR FU L
1	0	0	0
2	1	1	1
3	2	1	1
4	2	3	2
5	2	5	3
6	3	1	1

2
3
1
0

```
XMAX= 50.000,
```

YMAX= 90.000 ,

YMIN= .000

HORIZONTAL COORDINATES

5,0000

29,6850

VERTICAL COORDINATES

10000
10000

82.1580

[illegible][illegible][illegible][illegible][illegible]

.00	.00	.00	.00	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
.00	.00	.00	.00												
.00	.00	.00	.00	44.67	44.67	49.35	49.35	44.67	44.67	44.67	44.67	49.35	49.35	44.67	44.67
.00	.00	.00	.00												

.00	.00	.00	.00	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
.00	.00	.00	.00												
.00	.00	.00	.00	44.67	44.67	49.35	49.35	44.67	44.67	44.67	44.67	49.35	49.35	44.67	44.67
.00	.00	.00	.00												

.00	.00	.00	.00	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
.00	.00	.00	.00												
.00	.00	.00	.00	38.43	38.43	43.11	43.11	38.43	38.43	38.43	38.43	43.11	43.11	38.43	38.43
.00	.00	.00	.00												

.00	.50	.50	6.20	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
23.48	29.18	29.18	29.68												
82.16	82.16	82.16	82.16	38.43	38.43	43.11	43.11	38.43	38.43	38.43	38.43	43.11	43.11	38.43	38.43
82.16	82.16	82.16	82.16												

.00	.50	.50	6.20	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
23.48	29.18	29.18	29.68												
70.19	70.19	70.19	70.19	32.19	32.19	36.87	36.87	32.19	32.19	32.19	32.19	36.87	36.87	32.19	32.19
70.19	70.19	70.19	70.19												

.00	.50	.50	6.20	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
23.48	29.18	29.18	29.68												
70.19	70.19	70.19	70.19	32.19	32.19	36.87	36.87	32.19	32.19	32.19	32.19	36.87	36.87	32.19	32.19
70.19	70.19	70.19	70.19												

.00	.50	.50	6.20	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
23.48	29.18	29.18	29.68												
58.22	58.22	58.22	58.22	25.95	25.95	30.63	30.63	25.95	25.95	25.95	25.95	30.63	30.63	25.95	25.95
58.22	58.22	58.22	58.22												

.00	.50	.50	6.20	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
23.48	29.18	29.18	29.68												
58.22	58.22	58.22	58.22	25.95	25.95	30.63	30.63	25.95	25.95	25.95	25.95	30.63	30.63	25.95	25.95
58.22	58.22	58.22	58.22												

.00	.50	.50	6.20	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
23.48	29.18	29.18	29.68												
46.25	46.25	46.25	46.25	19.71	19.71	24.39	24.39	19.71	19.71	19.71	19.71	24.39	24.39	19.71	19.71
46.25	46.25	46.25	46.25												

.00	.50	.50	6.20	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
23.48	29.18	29.18	29.68												
46.25	46.25	46.25	46.25	19.71	19.71	24.39	24.39	19.71	19.71	19.71	19.71	24.39	24.39	19.71	19.71
46.25	46.25	46.25	46.25												

.00	.50	.50	6.20	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
23.48	29.18	29.18	29.68												
34.29	34.29	34.29	34.29	16.59	16.59	18.15	18.15	16.59	16.59	16.59	16.59	18.15	18.15	16.59	16.59
34.29	34.29	34.29	34.29												

.00	.50	.50	6.20	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
23.48	29.18	29.18	29.68												
34.29	34.29	34.29	34.29	16.59	16.59	18.15	18.15	16.59	16.59	16.59	16.59	18.15	18.15	16.59	16.59
34.29	34.29	34.29	34.29												

.00	.50	.50	6.20	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
23.48	29.18	29.18	29.68												
22.32	22.32	22.32	22.32	13.47	13.47	15.03	15.03	13.47	13.47	13.47	13.47	15.03	15.03	13.47	13.47
22.32	22.32	22.32	22.32												

.00	.50	.50	6.20	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
23.48	29.18	29.18	29.68												
22.32	22.32	22.32	22.32	13.47	13.47	15.03	15.03	13.47	13.47	13.47	13.47	15.03	15.03	13.47	13.47
22.32	22.32	22.32	22.32												

.00	.50	.50	6.20	6.21	9.04	9.11	11.94	12.01	14.84	14.85	17.68	17.75	20.58	20.64	23.47
23.48	29.18	29.18	29.68												
10.35	10.35	10.35	10.35	10.35	10.35	10.35	10.35	10.35	10.35	10.35	10.35	10.35	10.35	10.35	10.35
10.35	10.35	10.35	10.35												

CORE SUPPORT BLOCKS

.50	6.20	6.21	14.84	14.85	23.47	23.48	29.18
10.35	10.35	10.35	10.35	10.35	10.35	10.35	10.35

.50	6.20	6.21	14.84	14.85	23.47	23.48	29.18
5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75

TITLE TO APPEAR ON PLOTS WILL BE
MCOCO SIMULATION-1/5 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1

ICACOM = 0
CALCOMP PLOT SIZE = .0000 INCH
MAGNIFICATION SIZE FOR PLOTTING = 2.0000
GAP FOR PLOTTING = .0100

4 PLOTS HAVE BEEN REQUESTED
AT LL = 1500 2000 2500 3000

TITLE TO APPEAR ON PLOTS WILL BE
MCOCO SIMULATION-1/5 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1

NO OF INPUT POINTS READ FOR HORIZ EXCITATION= 1200
CONVERSION FACTOR FOR UNITS= 1.000
SCALE FACTOR FOR DESIRED G LEVEL = .240

TIME HISTORY OF HORIZ INPUT ACCLTN AFTER APPLYING THE SCALE FACTORS

.000	.00	.447-02	.00	.894-02	.00	.134-01	.00	.179-01	.00	.224-01	.00	.268-01	.00
.313-01	.00	.358-01	.00	.402-01	.00	.447-01	.00	.492-01	.00	.537-01	.00	.581-01	.00
.626-01	.00	.671-01	.00	.716-01	.00	.760-01	.00	.805-01	.00	.850-01	.00	.894-01	.00
.939-01	.00	.984-01	.00	.103-00	.00	.107-00	.00	.112-00	.00	.116-00	.00	.121-00	.00
.125-00	.00	.130-00	.00	.134-00	.00	.139-00	.00	.143-00	.00	.148-00	.00	.152-00	.00
.157-00	.00	.161-00	.00	.165-00	.00	.170-00	.00	.174-00	.00	.179-00	.00	.183-00	.00
.188-00	.00	.192-00	.00	.197-00	.00	.201-00	.00	.206-00	.00	.210-00	.00	.215-00	.00
.219-00	.00	.224-00	.00	.228-00	.00	.233-00	.00	.237-00	.00	.241-00	.00	.246-00	.00
.250-00	.00	.255-00	.00	.259-00	.00	.264-00	.00	.268-00	.00	.273-00	.00	.277-00	.00
.282-00	.00	.286-00	.00	.291-00	.00	.295-00	.00	.300-00	.00	.304-00	.00	.309-00	.00
.313-00	.00	.318-00	.00	.322-00	.00	.326-00	.00	.331-00	.00	.335-00	.00	.340-00	.00
.344-00	.00	.349-00	.00	.353-00	.00	.358-00	.00	.362-00	.00	.367-00	.00	.371-00	.00
.376-00	.00	.380-00	.00	.385-00	.00	.389-00	.00	.394-00	.00	.398-00	.00	.402-00	.00
.407-00	.00	.411-00	.00	.416-00	.00	.420-00	.00	.425-00	.00	.429-00	.00	.434-00	.00
.438-00	.00	.443-00	.00	.447-00	.00	.452-00	.00	.456-00	.00	.461-00	.00	.465-00	.00
.470-00	.00	.474-00	.00	.479-00	.00	.483-00	.00	.487-00	.00	.492-00	.00	.496-00	.00
.501-00	.00	.505-00	.00	.510-00	.00	.514-00	.00	.519-00	.00	.523-00	.00	.528-00	.00
.532-00	.00	.537-00	.00	.541-00	.00	.546-00	.00	.550-00	.00	.555-00	.00	.559-00	.00
.563-00	.00	.568-00	.00	.572-00	.00	.577-00	.00	.581-00	.00	.586-00	.00	.590-00	.00
.595-00	.00	.599-00	.00	.604-00	.00	.608-00	.00	.613-00	.00	.617-00	.00	.622-00	.00
.626-00	.00	.631-00	.00	.635-00	.00	.640-00	.00	.644-00	.00	.648-00	.00	.653-00	.00
.657-00	.00	.662-00	.00	.666-00	.00	.671-00	.00	.675-00	.00	.680-00	.00	.684-00	.00
.689-00	.00	.693-00	.00	.698-00	.00	.702-00	.00	.707-00	.00	.711-00	.00	.716-00	.00
.720-00	.00	.724-00	.00	.729-00	.00	.733-00	.00	.738-00	.00	.742-00	.00	.747-00	.00
.751-00	.00	.756-00	.00	.760-00	.00	.765-00	.00	.769-00	.00	.774-00	.00	.778-00	.00
.783-00	.00	.787-00	.00	.792-00	.00	.796-00	.00	.801-00	.00	.805-00	.00	.809-00	.00
.814-00	.00	.818-00	.00	.823-00	.00	.827-00	.00	.832-00	.00	.836-00	.00	.841-00	.00
.845-00	.00	.850-00	.00	.854-00	.00	.859-00	.00	.863-00	.00	.868-00	.00	.872-00	.00
.877-00	.00	.881-00	.00	.885-00	.00	.890-00	.00	.894-00	.00	.899-00	.00	.903-00	.00
.903-00	.00	.912-00	.00	.917-00	.00	.921-00	.00	.926-00	.00	.930-00	.00	.935-00	.00
.939-00	.00	.944-00	.00	.948-00	.00	.953-00	.00	.957-00	.00	.962-00	.00	.966-00	.00
.970-00	.00	.975-00	.00	.979-00	.00	.984-00	.00	.988-00	.00	.993-00	.00	.997-00	.00
.100-01	-31.46	.101-01	-30.05	.101-01	-28.60	.102-01	-27.72	.102-01	-26.47	.102-01	-24.77	.103-01	-22.58
.103-01	-19.93	.104-01	-16.74	.104-01	-12.86	.105-01	-8.33	.105-01	-3.34	.106-01	1.84	.106-01	6.81
.106-01	11.07	.107-01	14.21	.107-01	16.14	.108-01	17.11	.108-01	17.65	.109-01	18.56	.109-01	20.80
.110-01	25.18	.110-01	32.11	.110-01	41.59	.111-01	53.16	.111-01	66.22	.112-01	79.78	.112-01	92.57
.113-01	103.20	.113-01	110.57	.114-01	113.95	.114-01	112.99	.114-01	107.78	.115-01	98.86	.115-01	87.26
.116-01	74.11	.116-01	60.62	.117-01	48.22	.117-01	38.38	.118-01	32.06	.118-01	29.64	.119-01	30.91
.119-01	35.33	.119-01	42.14	.120-01	50.40	.120-01	59.04	.121-01	66.96	.121-01	73.15	.122-01	76.70
.122-01	77.02	.123-01	74.02	.123-01	67.99	.123-01	59.57	.124-01	49.25	.124-01	37.34	.125-01	24.12
.125-01	10.11	.126-01	-3.97	.126-01	-17.55	.127-01	-30.34	.127-01	-42.19	.127-01	-52.97	.128-01	-62.62
.128-01	-71.33	.129-01	-79.42	.129-01	-86.69	.130-01	-92.81	.130-01	-97.49	.131-01	-100.94	.131-01	-103.54
.131-01	-105.19	.132-01	-105.84	.132-01	-105.46	.133-01	-104.18	.133-01	-102.24	.134-01	-100.03	.134-01	-98.14

.135+01	-97.15	.135+01	-97.15	.136+01	-97.97	.136+01	-99.41	.136+01	-101.14	.137+01	-102.77	.137+01	-103.92
.138+01	-104.47	.138+01	-104.45	.139+01	-103.85	.139+01	-102.48	.140+01	-100.32	.140+01	-97.46	.140+01	-94.01
.141+01	-90.14	.141+01	-86.04	.142+01	-81.53	.142+01	-76.15	.143+01	-69.41	.143+01	-61.22	.144+01	-51.96
.144+01	-41.95	.144+01	-31.27	.145+01	-19.84	.145+01	-7.88	.146+01	4.04	.146+01	15.12	.147+01	24.53
.147+01	31.39	.148+01	35.16	.148+01	35.69	.148+01	33.24	.149+01	28.20	.149+01	21.13	.150+01	12.76
.150+01	4.09	.151+01	-3.89	.151+01	-10.21	.152+01	-13.86	.152+01	-14.00	.152+01	-10.22	.153+01	-2.79
.153+01	7.67	.154+01	20.47	.154+01	34.85	.155+01	49.90	.155+01	64.56	.156+01	77.54	.156+01	87.60
.157+01	93.79	.157+01	95.83	.157+01	93.77	.158+01	87.77	.158+01	78.12	.159+01	65.21	.159+01	49.27
.160+01	30.89	.160+01	11.30	.161+01	-7.86	.161+01	-25.32	.161+01	-40.56	.162+01	-53.66	.162+01	-64.66
.163+01	-73.54	.163+01	-80.42	.164+01	-85.70	.164+01	-89.74	.165+01	-92.90	.165+01	-95.52	.165+01	-97.80
.166+01	-99.74	.166+01	-101.02	.167+01	-101.06	.167+01	-99.41	.168+01	-95.81	.168+01	-90.17	.169+01	-82.90
.169+01	-74.57	.169+01	-65.69	.170+01	-56.71	.170+01	-48.17	.171+01	-40.80	.171+01	-35.33	.172+01	-32.21
.172+01	-31.51	.173+01	-33.26	.173+01	-37.37	.174+01	-43.46	.174+01	-50.95	.174+01	-59.21	.175+01	-67.44
.175+01	-74.83	.176+01	-80.23	.176+01	-82.75	.177+01	-81.58	.177+01	-76.10	.178+01	-65.98	.178+01	-51.24
.178+01	-52.47	.179+01	-40.48	.179+01	13.62	.180+01	38.42	.180+01	62.47	.181+01	84.36	.181+01	102.98
.182+01	117.60	.182+01	127.68	.182+01	132.89	.183+01	133.27	.183+01	129.67	.184+01	123.41	.184+01	115.70
.185+01	107.18	.185+01	96.09	.186+01	88.87	.186+01	80.23	.186+01	72.77	.187+01	66.79	.187+01	62.26
.188+01	59.02	.188+01	56.86	.189+01	55.54	.189+01	54.98	.190+01	55.42	.190+01	57.41	.191+01	61.66
.191+01	68.42	.191+01	77.64	.192+01	89.04	.192+01	101.98	.193+01	115.70	.193+01	129.26	.194+01	141.14
.194+01	149.38	.195+01	152.26	.195+01	148.82	.195+01	138.84	.196+01	122.78	.196+01	101.45	.197+01	75.89
.197+01	47.23	.198+01	17.11	.198+01	-12.07	.199+01	-37.58	.199+01	-57.48	.199+01	-71.02	.200+01	-74.50
.200+01	-80.50	.201+01	-77.59	.201+01	-70.61	.202+01	-60.53	.202+01	-48.53	.203+01	-35.90	.203+01	-23.88
.203+01	-13.36	.204+01	-4.80	.204+01	1.60	.205+01	5.71	.205+01	7.52	.206+01	7.19	.206+01	5.08
.207+01	1.50	.207+01	-3.42	.208+01	-9.58	.208+01	-17.06	.208+01	-26.23	.209+01	-37.54	.209+01	-50.98
.210+01	-65.81	.210+01	-80.78	.211+01	-94.49	.211+01	-105.62	.212+01	-112.99	.212+01	-115.58	.212+01	-112.42
.213+01	-102.79	.213+01	-86.71	.214+01	-65.30	.214+01	-40.44	.215+01	-14.39	.215+01	10.80	.216+01	33.24
.216+01	51.43	.216+01	64.68	.217+01	73.15	.217+01	77.30	.218+01	77.54	.218+01	74.64	.219+01	70.06
.219+01	65.62	.220+01	62.74	.220+01	61.80	.220+01	62.35	.221+01	63.72	.221+01	65.33	.222+01	66.72
.222+01	67.58	.223+01	67.46	.223+01	65.69	.224+01	61.92	.224+01	56.57	.225+01	50.64	.225+01	45.07
.225+01	40.51	.226+01	37.82	.226+01	38.09	.227+01	41.83	.227+01	48.53	.228+01	56.59	.228+01	64.25
.229+01	70.18	.229+01	73.34	.229+01	73.13	.230+01	69.26	.230+01	62.11	.231+01	52.44	.231+01	41.30
.232+01	30.07	.232+01	20.28	.233+01	12.96	.233+01	8.39	.233+01	6.27	.234+01	6.14	.234+01	7.55
.235+01	9.65	.235+01	11.87	.236+01	12.06	.236+01	9.32	.237+01	3.44	.237+01	-5.01	.237+01	-15.15
.238+01	-25.97	.238+01	-36.34	.239+01	-45.14	.239+01	-51.55	.240+01	-54.77	.240+01	-54.19	.241+01	-49.63
.241+01	-41.69	.241+01	-31.75	.242+01	-21.44	.242+01	-17.31	.243+01	-5.33	.243+01	-3.94	.244+01	1.43
.244+01	2.08	.245+01	1.51	.245+01	-2.25	.246+01	-3.07	.246+01	-6.27	.246+01	-8.73	.247+01	-9.44
.247+01	-8.21	.248+01	-5.51	.248+01	-2.05	.249+01	1.68	.249+01	5.39	.250+01	9.02	.250+01	12.40
.250+01	14.93	.251+01	15.91	.251+01	14.98	.252+01	12.28	.252+01	8.34	.253+01	3.73	.253+01	-0.89
.254+01	-4.70	.254+01	-7.01	.254+01	-7.53	.255+01	-6.01	.255+01	-2.11	.256+01	4.22	.256+01	12.46
.257+01	21.71	.257+01	31.13	.258+01	39.86	.258+01	47.18	.258+01	52.54	.259+01	55.80	.259+01	56.81
.260+01	55.27	.260+01	51.00	.261+01	44.30	.261+01	36.07	.262+01	27.24	.262+01	18.37	.263+01	9.60
.263+01	1.07	.263+01	-7.02	.264+01	-14.59	.264+01	-21.65	.265+01	-27.94	.265+01	-32.88	.266+01	-36.14
.266+01	-37.58	.267+01	-37.10	.267+01	-34.80	.267+01	-30.74	.268+01	-25.25	.268+01	-19.05	.269+01	-13.08
.269+01	-8.21	.270+01	-5.01	.270+01	-3.72	.271+01	-4.46	.271+01	-7.23	.271+01	-11.79	.272+01	-17.82
.272+01	-24.96	.273+01	-32.86	.273+01	-40.94	.274+01	-48.38	.274+01	-54.17	.275+01	-57.50	.275+01	-58.34
.275+01	-57.41	.276+01	-55.63	.276+01	-53.83	.277+01	-52.42	.277+01	-51.46	.278+01	-50.86	.278+01	-50.45
.279+01	-49.99	.279+01	-49.30	.280+01	-48.24	.280+01	-46.75	.280+01	-44.64	.281+01	-41.64	.281+01	-37.73
.282+01	-33.07	.282+01	-27.84	.283+01	-22.04	.283+01	-15.87	.284+01	-9.97	.284+01	-5.22	.284+01	-2.29
.285+01	-1.51	.285+01	-3.08	.286+01	-7.15	.286+01	-13.50	.287+01	-21.50	.287+01	-30.48	.288+01	-39.65
.288+01	-47.96	.288+01	-54.38	.289+01	-58.32	.289+01	-59.62	.290+01	-57.98	.290+01	-52.94	.291+01	-44.21
.291+01	-32.35	.292+01	-18.53	.292+01	-3.98	.292+01	10.28	.293+01	23.40	.293+01	34.46	.294+01	42.43
.294+01	46.54	.295+01	46.61	.295+01	43.10	.296+01	36.79	.296+01	28.66	.297+01	19.78	.297+01	11.04
.297+01	2.74	.298+01	-4.81	.298+01	-11.14	.299+01	-15.77	.299+01	-18.59	.300+01	-20.05	.300+01	-20.71
.301+01	-20.94	.301+01	-21.18	.301+01	-21.86	.302+01	-23.16	.302+01	-25.08	.303+01	-27.48	.303+01	-30.17
.304+01	-32.76	.304+01	-34.66	.305+01	-35.38	.305+01	-34.94	.305+01	-33.70	.306+01	-31.92	.306+01	-29.88
.307+01	-27.96	.307+01	-26.90	.308+01	-27.07	.308+01	-28.27	.309+01	-30.00	.309+01	-31.61	.309+01	-32.62
.310+01	-32.66	.310+01	-31.32	.311+01	-28.20	.311+01	-22.97	.312+01	-15.36	.312+01	-5.49	.313+01	6.05

.313+01	18.47	.313+01	30.91	.314+01	42.29	.314+01	51.31	.315+01	57.02	.315+01	59.04	.316+01	57.60
.316+01	53.16	.317+01	46.49	.317+01	38.42	.318+01	29.62	.318+01	20.64	.318+01	12.38	.319+01	5.94
.319+01	2.10	.320+01	1.03	.320+01	2.37	.321+01	5.60	.321+01	10.09	.322+01	15.18	.322+01	20.46
.322+01	25.94	.323+01	31.78	.323+01	37.82	.324+01	43.85	.324+01	49.68	.325+01	55.37	.325+01	60.77
.326+01	65.54	.326+01	69.46	.326+01	72.34	.327+01	73.90	.327+01	73.44	.328+01	70.54	.328+01	65.88
.329+01	59.40	.329+01	50.83	.330+01	40.63	.330+01	29.09	.330+01	16.88	.331+01	4.54	.331+01	-7.93
.332+01	-19.95	.332+01	-30.24	.333+01	-38.04	.333+01	-43.92	.334+01	-48.74	.334+01	-52.78	.335+01	-55.92
.335+01	-58.10	.335+01	-59.33	.336+01	-59.50	.336+01	-58.70	.337+01	-57.53	.337+01	-56.42	.338+01	-55.22
.338+01	-53.54	.339+01	-51.60	.339+01	-49.56	.339+01	-47.88	.340+01	-46.87	.340+01	-47.06	.341+01	-48.89
.341+01	-52.15	.342+01	-56.35	.342+01	-61.22	.343+01	-66.79	.343+01	-72.65	.343+01	-77.76	.344+01	-81.14
.344+01	-81.82	.345+01	-78.89	.345+01	-71.59	.346+01	-59.86	.346+01	-44.33	.347+01	-25.99	.347+01	-5.83
.347+01	15.19	.348+01	35.86	.348+01	54.74	.349+01	70.66	.349+01	82.73	.350+01	90.48	.350+01	93.96
.351+01	93.79	.351+01	91.06	.352+01	86.35	.352+01	79.99	.352+01	72.31	.353+01	64.01	.353+01	55.82
.354+01	48.22	.354+01	41.04	.355+01	34.03	.355+01	27.02	.356+01	20.21	.356+01	13.94	.356+01	8.62
.357+01	4.50	.357+01	1.71	.358+01	.34	.358+01	.62	.359+01	2.74	.359+01	6.80	.360+01	12.66
.360+01	19.93	.360+01	27.91	.361+01	35.83	.361+01	43.20	.362+01	49.58	.362+01	54.65	.363+01	57.98
.363+01	59.14	.364+01	57.79	.364+01	53.69	.364+01	46.68	.365+01	36.96	.365+01	24.96	.366+01	11.04
.366+01	-4.54	.367+01	-21.53	.367+01	-39.19	.368+01	-56.35	.368+01	-71.83	.369+01	-84.96	.369+01	-95.38
.369+01	-102.62	.370+01	-106.20	.370+01	-105.53	.371+01	-100.27	.371+01	-90.65	.372+01	-77.23	.372+01	-60.74
.373+01	-41.93	.373+01	-21.62	.373+01	-8.86	.374+01	19.02	.374+01	36.55	.375+01	50.50	.375+01	60.10
.376+01	65.16	.376+01	66.00	.377+01	62.95	.377+01	56.50	.377+01	47.33	.378+01	36.53	.378+01	25.51
.379+01	15.61	.379+01	7.63	.380+01	2.12	.380+01	-.61	.381+01	-.35	.381+01	2.93	.381+01	9.06
.382+01	17.62	.382+01	27.94	.383+01	38.88	.383+01	49.32	.384+01	57.74	.384+01	63.62	.385+01	66.74
.385+01	67.03	.385+01	64.63	.386+01	59.71	.386+01	52.51	.387+01	43.27	.387+01	32.30	.388+01	20.31
.388+01	8.23	.389+01	-3.17	.389+01	-13.31	.390+01	-21.90	.390+01	-28.92	.390+01	-34.54	.391+01	-39.00
.391+01	-42.46	.392+01	-44.59	.392+01	-44.95	.393+01	-43.30	.393+01	-39.82	.394+01	-34.92	.394+01	-29.18
.394+01	-23.15	.395+01	-17.32	.395+01	-12.16	.396+01	-8.31	.396+01	-6.60	.397+01	-7.84	.397+01	-12.68
.398+01	-21.42	.398+01	-33.94	.398+01	-49.61	.399+01	-67.13	.399+01	-84.86	.400+01	-101.16	.400+01	-114.41
.401+01	-123.48	.401+01	-127.51	.402+01	-126.00	.402+01	-119.02	.402+01	-107.28	.403+01	-91.87	.403+01	-74.09
.404+01	-55.27	.404+01	-36.58	.405+01	-18.87	.405+01	-2.86	.406+01	10.79	.406+01	21.71	.407+01	29.98
.407+01	36.14	.407+01	41.14	.408+01	45.89	.408+01	51.05	.409+01	56.66	.409+01	62.30	.410+01	67.42
.410+01	71.50	.411+01	74.18	.411+01	74.83	.411+01	72.70	.412+01	67.06	.412+01	57.62	.413+01	44.88
.413+01	30.24	.414+01	15.78	.414+01	3.89	.415+01	-3.50	.415+01	-5.23	.415+01	-.73	.416+01	9.94
.416+01	25.14	.417+01	46.80	.417+01	70.51	.418+01	95.45	.418+01	119.18	.419+01	139.32	.419+01	154.06
.419+01	162.38	.420+01	163.97	.420+01	159.02	.421+01	148.03	.421+01	131.88	.422+01	111.89	.422+01	89.93
.423+01	67.97	.423+01	47.47	.424+01	29.47	.424+01	14.35	.424+01	2.23	.425+01	-7.09	.425+01	-13.90
.426+01	-19.54	.426+01	-21.47	.427+01	-23.18	.427+01	-24.34	.428+01	-25.70	.428+01	-27.70	.428+01	-30.36
.429+01	-33.29	.429+01	-35.76	.430+01	-36.98	.430+01	-36.62	.431+01	-34.94	.431+01	-32.71	.432+01	-30.62
.432+01	-23.94	.432+01	-27.60	.433+01	-26.71	.433+01	-26.64	.434+01	-27.50	.434+01	-29.11	.435+01	-31.15
.435+01	-33.31	.436+01	-35.28	.436+01	-36.72	.436+01	-37.56	.437+01	-37.90	.437+01	-37.73	.438+01	-37.03
.438+01	-35.73	.439+01	-34.13	.439+01	-32.35	.440+01	-30.96	.440+01	-30.36	.441+01	-30.91	.441+01	-32.78
.441+01	-35.83	.442+01	-39.48	.442+01	-43.10	.443+01	-46.44	.443+01	-49.20	.444+01	-50.78	.444+01	-50.35
.445+01	-47.26	.445+01	-41.40	.445+01	-33.38	.446+01	-23.99	.446+01	-13.57	.447+01	-2.35	.447+01	9.08
.448+01	19.55	.448+01	27.91	.449+01	33.36	.449+01	35.14	.449+01	32.69	.450+01	25.73	.450+01	14.25
.451+01	-1.01	.451+01	-18.78	.452+01	-37.78	.452+01	-56.64	.453+01	-73.78	.453+01	-87.67	.453+01	-97.03
.454+01	-101.21	.454+01	-100.06	.455+01	-93.79	.455+01	-83.06	.456+01	-69.02	.456+01	-53.18	.457+01	-36.82
.457+01	-20.90	.457+01	-6.13	.458+01	6.90	.458+01	17.45	.459+01	25.01	.459+01	29.47	.460+01	31.08
.460+01	30.17	.461+01	27.00	.461+01	22.02	.462+01	15.61	.462+01	8.15	.462+01	-.24	.463+01	-9.43
.463+01	-19.85	.464+01	-27.48	.464+01	-34.30	.465+01	-38.71	.465+01	-40.27	.466+01	-38.69	.466+01	-33.84
.466+01	-25.92	.467+01	-15.10	.467+01	-1.63	.468+01	14.21	.468+01	31.92	.469+01	50.59	.469+01	69.02
.470+01	85.92	.470+01	100.15	.470+01	110.86	.471+01	117.55	.471+01	119.86	.472+01	117.67	.472+01	111.10
.473+01	100.56	.473+01	86.88	.474+01	70.99	.474+01	53.90	.474+01	36.96	.475+01	21.52	.475+01	8.76
.476+01	-.37	.476+01	-5.12	.477+01	-4.96	.477+01	.18	.478+01	9.79	.478+01	22.90	.479+01	38.30
.479+01	54.60	.479+01	70.20	.480+01	83.69	.480+01	93.94	.481+01	99.96	.481+01	100.97	.492+01	96.55
.482+01	86.86	.483+01	72.58	.483+01	54.67	.483+01	34.15	.484+01	12.12	.484+01	-10.25	.485+01	-31.66
.485+01	-51.12	.486+01	-67.75	.486+01	-80.98	.487+01	-90.43	.487+01	-96.14	.487+01	-98.40	.488+01	-97.58
.488+01	-94.08	.489+01	-88.34	.489+01	-80.95	.490+01	-72.62	.490+01	-64.08	.491+01	-55.67	.491+01	-48.36

.491+01	-41.59	.492+01	-35.33	.492+01	-29.28	.493+01	-23.23	.493+01	-17.16	.494+01	-11.30	.494+01	-5.91
.495+01	-1.10	.495+01	3.21	.496+01	7.14	.496+01	10.71	.496+01	13.58	.497+01	15.11	.497+01	14.71
.498+01	11.96	.498+01	6.86	.499+01	-7.26	.499+01	-9.02	.500+01	-19.04	.500+01	-29.90	.500+01	-40.90
.501+01	-51.07	.501+01	-59.36	.502+01	-64.62	.502+01	-66.43	.503+01	-63.67	.503+01	-56.35	.504+01	-44.62
.504+01	-28.92	.504+01	-10.17	.505+01	10.27	.505+01	30.60	.506+01	48.94	.506+01	63.62	.507+01	73.32
.507+01	77.38	.508+01	75.60	.508+01	68.40	.508+01	56.66	.509+01	41.45	.509+01	24.24	.510+01	6.75
.510+01	-9.10	.511+01	-21.54	.511+01	-29.35	.512+01	-32.09	.512+01	-30.12	.513+01	-24.29	.513+01	-15.49
.513+01	-4.95	.514+01	5.91	.514+01	15.56	.515+01	22.86	.515+01	27.26	.516+01	28.63	.516+01	27.14
.517+01	23.17	.517+01	17.34	.517+01	10.44	.518+01	3.35	.518+01	-3.13	.519+01	-8.45	.519+01	-12.31
.520+01	-14.72	.520+01	-15.91	.521+01	-16.19	.521+01	-16.04	.521+01	-16.04	.522+01	-16.65	.522+01	-18.03
.523+01	-20.16	.523+01	-22.88	.524+01	-25.94	.524+01	-29.06	.525+01	-31.58	.525+01	-32.76	.525+01	-32.02
.526+01	-29.23	.526+01	-25.01	.527+01	-20.28	.527+01	-15.99	.528+01	-12.81	.528+01	-11.28	.529+01	-11.88
.529+01	-14.94	.530+01	-20.32	.530+01	-27.48	.530+01	-35.57	.531+01	-43.80	.531+01	-51.46	.532+01	-58.01
.532+01	-62.81	.533+01	-65.16	.533+01	-64.39	.534+01	-60.12	.534+01	-52.51	.534+01	-42.50	.535+01	-31.22
.535+01	-19.78	.536+01	-9.16	.536+01	.00								

MAXIMUM VALUE OF INPUT= 163.968 IN/SEC**2
 MAXIMUM INPUT G LEVEL= .424G

TIME HISTORY PLOTS FOR INPUT VELOCITY AND INPUT DISPLACEMENT IN HORIZ DIRECTION

RESPONSE QUANTITIES

MCOCO SIMULATION-1/5 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1 CARD 1
 ----- TIME = 1.03000 INTERVAL = 1500 -----

- 1 -

COL-B	THETA	THETAD	U	UD	W	WD	FVL	FVC	FVR	FBL	FBR	FRI	FOS
1- 1	-.00	-.59	-.01	-.72	.00	.00	.0	.0	.0	8.3	3.6	.0	.0
1- 2	-.00	.35	-.01	-.78	.00	.00	.0	.0	.0	2.0	3.4	-.3	-1.5
1- 3	-.00	-1.94	-.01	-.94	.00	.00	.0	.0	.0	.0	2.9	.2	-.1
1- 4	.00	.63	-.01	-1.05	.00	.00	.0	.0	.0	.0	3.2	1.0	1.4
1- 5	.00	-.20	-.01	-1.01	.00	.00	.0	.0	.0	.0	3.2	-.1	.1
1- 6	.00	.03	-.01	-1.03	.00	.00	.0	.0	.0	.0	3.3	-.0	.2
2- 1	-.00	-.29	-.01	-.78	-.00	-.00	99.6	.0	66.6	5.5	8.3	-1.1	-5.1
2- 2	-.00	-.04	-.01	-.78	-.00	-.00	63.1	.0	67.9	.0	2.0	1.2	-3.7
2- 3	-.00	-.20	-.01	-.81	-.00	-.00	44.4	.0	60.4	.0	.0	-.2	-.7
2- 4	-.00	-.35	-.01	-.89	-.00	-.00	29.5	.0	49.1	.0	.0	-.7	1.3
2- 5	-.00	-.39	-.01	-.97	-.00	-.00	19.5	.0	32.9	.0	.0	-.1	2.3
2- 6	-.00	-.41	-.01	-1.05	-.00	-.00	10.9	.0	15.3	.0	.0	.1	1.8
3- 1	-.00	-.14	-.00	-.73	-.00	.00	52.2	.0	18.6	.0	5.5	-.7	-5.0
3- 2	-.00	-.03	-.00	-.70	-.00	.00	43.7	.0	24.1	.0	.0	1.4	-2.8
3- 3	-.00	-.66	-.00	-.69	-.00	.00	40.1	.0	24.7	.0	.0	.5	-2.7
3- 4	-.00	-.27	-.00	-.70	-.00	.00	35.0	.0	25.9	.0	.0	-.1	-2.5
3- 5	-.00	-.66	-.00	-.78	-.00	.00	26.8	.0	28.6	.0	.0	-.9	-1.4
3- 6	-.00	-.91	-.00	-.89	-.00	.00	19.4	.0	29.8	.0	.0	-.9	-.5
3- 7	-.00	-.93	-.00	-1.00	-.00	-.00	14.6	.0	28.5	.0	.0	-.7	.6
3- 8	.00	-.72	-.00	-1.10	-.00	-.00	12.4	.0	24.6	.0	.0	-.1	.9
3- 9	.00	-.38	-.00	-1.15	-.00	-.01	11.9	.0	18.9	.0	.0	.4	1.0
3-10	.00	-.07	-.00	-1.15	-.00	-.01	11.9	.0	12.6	.0	.0	.9	.4
3-11	.00	.13	-.00	-1.13	-.00	-.01	11.1	.0	7.2	.0	.0	.5	.1
3-12	.00	.22	-.00	-1.12	-.00	-.01	9.3	.0	3.8	.0	.0	.1	-.4
3-13	.00	.28	-.00	-1.11	-.00	-.01	6.2	.0	2.7	.0	.0	-.3	-.3
3-14	-.03	.29	-.03	-1.09	-.00	-.01	1.6	.0	1.0	.0	.0	-.3	-.2
4- 1	.00	.32	-.00	-.68	-.00	.00	10.7	.0	59.6	.0	.0	.3	5.7
4- 2	.00	.52	-.00	-.65	-.00	.00	17.7	.0	48.0	.0	.0	.3	4.9
4- 3	.01	.76	-.00	-.58	-.00	.00	21.8	.0	40.8	.0	.0	.6	4.3
4- 4	.01	1.14	-.00	-.44	-.00	.00	28.8	.0	27.7	.0	.0	1.2	2.7
4- 5	.00	1.40	-.00	-.27	-.00	-.00	33.1	.0	17.2	.0	.0	1.5	1.0
4- 6	.00	1.37	.00	-.09	-.00	-.00	33.7	.0	10.4	.0	.0	1.2	-.4
4- 7	.00	1.02	.00	.05	-.00	-.00	30.4	.0	7.6	.0	.0	.4	-1.3
4- 8	-.00	.46	.00	.12	-.00	-.00	23.9	.0	8.0	.0	.0	-.6	-1.4
4- 9	-.00	-.06	.00	.11	-.00	-.00	15.9	.0	9.8	.0	.0	-1.2	-.9
4-10	-.00	-.38	.00	.06	-.00	-.00	8.8	.0	10.7	.0	.0	-1.0	-.3
4-11	-.00	-.47	-.00	.02	-.00	-.00	4.2	.0	9.1	.0	.0	-.2	.2
4-12	-.00	-.51	-.00	-.01	-.00	-.00	3.0	.0	7.3	.0	.0	.2	.3
4-13	.00	-.52	.00	-.03	-.00	-.00	1.8	.0	3.9	.0	.0	.4	.3
4-14	.00	-.52	.03	-.05	-.00	-.00	1.0	.0	1.6	.0	.0	.3	.2
5- 1	.00	.22	-.00	-.69	-.00	-.00	9.8	.0	59.9	.0	.0	.4	5.6
5- 2	.00	.42	-.00	-.66	-.00	-.00	14.7	.0	51.9	.0	.0	.4	5.1
5- 3	.00	.59	-.00	-.62	-.00	-.00	19.1	.0	44.4	.0	.0	.6	4.5
5- 4	.00	.87	-.00	-.53	-.00	-.00	23.2	.0	37.3	.0	.0	.8	3.8
5- 5	.00	1.22	-.00	-.39	-.00	-.00	29.6	.0	24.8	.0	.0	1.3	2.2
5- 6	.00	1.39	-.03	-.21	-.00	-.00	32.9	.0	15.4	.0	.0	1.4	.6
5- 7	.00	1.26	.00	-.04	-.00	.00	32.3	.0	9.8	.0	.0	.9	-.7
5- 8	.00	.83	.00	.07	-.00	.00	28.0	.0	7.9	.0	.0	.1	-1.3
5- 9	-.00	.29	.00	.11	-.00	.00	21.2	.0	8.6	.0	.0	-.8	-1.2
5-10	-.00	-.15	.00	.09	-.00	.01	13.6	.0	10.1	.0	.0	-1.1	-.7
5-11	-.00	-.38	.00	.04	-.00	.01	7.3	.0	10.3	.0	.0	-.8	-.2

5-12	-.00	-.43	-.00	.01	-.00	.01	3.6	.0	8.0	.0	.0	-.0	.2
5-13	.00	-.46	.00	-.02	-.00	.00	2.6	.0	6.0	.0	.0	.3	.3
5-14	.00	-.46	.00	-.05	-.00	.00	1.0	.0	1.6	.0	.0	.3	.2
6- 1	.00	.00	-.00	-.00	-.00	.00	35.1	.0	35.1	.0	.0	.0	-.0
6- 2	.00	.00	-.00	-.00	-.00	.00	33.6	.0	33.6	.0	.0	.0	-.0
6- 3	.00	.00	-.00	-.00	-.00	.00	32.1	.0	32.1	.0	.0	.0	-.0
6- 4	.00	.00	-.00	-.00	-.00	.00	30.5	.0	30.5	.0	.0	.0	-.0
6- 5	.00	.00	-.00	-.00	-.00	.00	27.5	.0	27.5	.0	.0	.0	-.0
6- 6	.00	.00	-.00	-.00	-.00	.00	24.4	.0	24.4	.0	.0	.0	-.0
6- 7	.00	.00	-.00	.00	-.00	.00	21.3	.0	21.3	.0	.0	.0	-.0
6- 8	.00	.00	.00	.00	-.00	.00	18.2	.0	18.2	.0	.0	.0	-.0
6- 9	.00	.00	.00	.00	-.00	.00	15.2	.0	15.2	.0	.0	-.0	.0
6-10	.00	.00	.00	.00	-.00	.00	12.1	.0	12.1	.0	.0	-.0	.0
6-11	.00	-.00	.00	.00	-.00	.00	9.0	.0	9.0	.0	.0	-.0	.0
6-12	.00	-.00	.00	.00	-.00	.00	5.9	.0	5.9	.0	.0	-.0	.0
6-13	.00	-.00	.00	.00	-.00	.00	4.4	.0	4.4	.0	.0	-.0	.0
6-14	.00	-.00	.00	.00	-.00	.00	1.3	.0	1.3	.0	.0	-.0	.0
7- 1	.00	.00	-.00	-.00	-.00	-.00	35.1	.0	35.1	.0	.0	.0	-.0
7- 2	.00	.00	-.00	-.00	-.00	-.00	32.8	.0	32.8	.0	.0	.0	-.0
7- 3	.00	.00	-.00	-.00	-.00	-.00	31.3	.0	31.3	.0	.0	.0	-.0
7- 4	.00	.00	-.00	-.00	-.00	-.00	28.2	.0	28.2	.0	.0	.0	-.0
7- 5	.00	.00	-.00	-.00	-.00	-.00	25.1	.0	25.1	.0	.0	.0	-.0
7- 6	.00	.00	-.00	.00	-.00	-.00	22.1	.0	22.1	.0	.0	.0	-.0
7- 7	.00	.00	.00	.00	-.00	-.00	19.0	.0	19.0	.0	.0	.0	-.0
7- 8	.00	.00	.00	.00	-.00	-.00	15.9	.0	15.9	.0	.0	.0	-.0
7- 9	.00	.00	.00	.00	-.00	-.00	12.8	.0	12.8	.0	.0	.0	-.0
7-10	.00	-.00	.00	.00	-.00	-.00	9.8	.0	9.8	.0	.0	.0	-.0
7-11	.00	-.00	.00	.00	-.00	-.00	6.7	.0	6.7	.0	.0	.0	-.0
7-12	.00	-.00	.00	.00	-.00	-.00	5.2	.0	5.2	.0	.0	.0	-.0
7-13	.00	-.00	.00	.00	-.00	-.00	2.9	.0	2.8	.0	.0	.0	-.0
7-14	.00	-.00	.00	.00	-.00	-.00	1.3	.0	1.3	.0	.0	.0	-.0
8- 1	.00	.00	-.00	-.00	-.00	-.00	35.1	.0	35.1	.0	.0	.0	-.0
8- 2	.00	.00	-.00	-.00	-.00	-.00	33.6	.0	33.6	.0	.0	.0	-.0
8- 3	.00	.00	-.00	-.00	-.00	-.00	32.1	.0	32.1	.0	.0	.0	-.0
8- 4	.00	.00	-.00	-.00	-.00	-.00	30.5	.0	30.5	.0	.0	.0	-.0
8- 5	.00	.00	-.00	-.00	-.00	-.00	27.4	.0	27.4	.0	.0	.0	-.0
8- 6	.00	.00	-.00	-.00	-.00	-.00	24.4	.0	24.4	.0	.0	.0	-.0
8- 7	.00	.00	-.00	.00	-.00	-.00	21.3	.0	21.3	.0	.0	.0	-.0
8- 8	.00	.00	.00	.00	-.00	-.00	18.2	.0	18.2	.0	.0	.0	-.0
8- 9	.00	.00	.00	.00	-.00	-.00	15.1	.0	15.1	.0	.0	.0	-.0
8-10	.00	.00	.00	.00	-.00	-.00	12.1	.0	12.1	.0	.0	.0	-.0
8-11	.00	-.00	.00	.00	-.00	-.00	9.0	.0	9.0	.0	.0	.0	-.0
8-12	.00	-.00	.00	.00	-.00	-.00	5.9	.0	5.9	.0	.0	.0	-.0
8-13	.00	-.00	.00	.00	-.00	-.00	4.4	.0	4.4	.0	.0	.0	-.0
8-14	.00	-.00	.00	.00	-.00	-.00	1.3	.0	1.3	.0	.0	.0	-.0
9- 1	.00	-.00	-.00	.00	-.00	.00	78.5	.0	78.7	.0	.0	-.0	.0
9- 2	.00	-.00	-.00	.00	-.00	.00	65.4	.0	65.6	.0	.0	-.0	.0
9- 3	.00	-.00	-.00	.00	-.00	.00	52.3	.0	52.5	.0	.0	-.0	.0
9- 4	.00	-.00	.00	-.00	-.00	.00	39.2	.0	39.4	.0	.0	-.0	.0
9- 5	.00	-.00	.00	-.00	-.00	.00	26.2	.0	26.2	.0	.0	-.0	.0
9- 6	.00	-.00	.00	-.00	-.00	.00	13.1	.0	13.1	.0	.0	-.0	.0
10- 1	-.00	-.00	-.02	-1.01	.00	.00	.0	.0	.0	-.2	.0	.0	.0
10- 2	.00	-.01	-.02	-1.01	.00	.00	.0	.0	.0	-.2	.0	.0	.0
10- 3	-.00	.00	-.02	-1.01	.00	.00	.0	.0	.0	-.2	.0	.0	.0
10- 4	-.00	-.03	-.02	-1.01	.00	.00	.0	.0	.0	-.2	.0	.0	.0
10- 5	.00	.01	-.02	-1.01	.00	.00	.0	.0	.0	-.2	.0	.0	.0
10- 6	.00	-.04	-.02	-1.02	.00	.00	.0	.0	.0	-.2	.0	.0	.0

PCRV -.02 -.98 .00 .00

CORE SUPPORT FLOOR.....SUPPORT POST LOADS.....SUPPORT ELEMENT LATERAL IMPACT LOADS,RELATIVE U AND W.....

I(ELEMENT) FVL(I) FVR(I) FHL(I) FHR(I) FBRU(I) FBRL(I) FBLU(I) FBLL(I) UREL(I) WREL(I)

1	98.1	67.3	.0	.0	4.0	.0	9.7	.0	.0046	-.0001
2	97.8	125.7	.0	.0	9.7	.0	.0	.0	.0156	-.0002
3	110.2	113.2	.0	.0	.0	.0	.0	.0	.0184	-.0002
4	82.2	83.2	.0	.0	.0	.0	.0	.0	.0184	-.0001

POSITION COORDINATES OF BOUNDARY CONTAINER

XMAX= 31.667, XMIN= -2.018, YMAX= 82.158, YMIN= .000

DELTA DISPLMNTS OF 4 CORNERS (DISPL) AT LL= 1500

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

COL-B	THETA	THETAD	U	UD	W	WD	FVL	FVC	FVR	FBL	FBR	FRI	FOS
1- 1	- .00	- .22	- .02	-1.04	.00	.00	.0	.0	.0	12.7	4.9	.0	.0
1- 2	- .00	- .12	- .02	-1.07	.00	.00	.0	.0	.0	5.4	4.3	.7	-1.7
1- 3	- .00	- .21	- .02	-1.10	.00	.00	.0	.0	.0	14.9	3.7	.6	- .8
1- 4	- .00	- .36	- .03	-1.14	.00	.00	.0	.0	.0	16.6	3.2	-1.4	1.4
1- 5	- .00	- .45	- .03	-1.19	.00	.00	.0	.0	.0	13.7	3.2	1.8	-1.8
1- 6	- .00	- .69	- .03	-1.35	.00	.00	.0	.0	.0	13.4	3.3	-1.3	1.8
<hr/>													
2- 1	- .00	- .43	- .02	-1.00	- .00	.00	125.0	.0	66.5	12.5	12.7	-11.1	-5.3
2- 2	- .00	- .20	- .02	-1.07	- .00	.00	101.0	.0	70.1	4.6	5.4	1.4	-3.7
2- 3	- .00	- .18	- .02	-1.11	- .00	.00	86.7	.0	61.4	13.7	14.9	-3.2	-2.4
2- 4	- .00	- .17	- .03	-1.16	- .00	.00	69.5	.0	57.5	26.5	16.6	-3.8	-1.4
2- 5	- .00	- .14	- .03	-1.24	- .00	.00	48.7	.0	41.7	17.3	13.7	-4.1	2.5
2- 6	- .00	- .13	- .03	-1.33	- .00	.00	23.2	.0	29.7	.0	13.4	-2.8	2.3
<hr/>													
3- 1	- .00	-1.69	- .01	- .76	- .00	.05	61.1	.0	20.8	.0	10.9	-8.2	-6.6
3- 2	- .00	-2.02	- .01	- .91	- .00	.06	44.7	.0	29.2	.0	1.6	-2.0	-2.8
3- 3	- .00	-1.69	- .01	-1.02	- .00	.06	41.0	.0	31.3	.0	.6	1.2	-2.7
3- 4	- .00	- .45	- .01	-1.07	- .00	.05	38.5	.0	29.9	.0	3.9	1.2	-2.5
3- 5	- .00	- .01	- .01	-1.08	- .00	.03	34.3	.0	28.6	.0	2.4	1.4	-1.8
3- 6	- .00	- .08	- .01	-1.07	- .00	.01	29.7	.0	29.8	.0	9.5	-1.0	-1.5
3- 7	- .00	- .31	- .01	-1.09	- .00	.00	24.9	.0	28.6	.0	8.4	3.3	-1.7
3- 8	- .00	- .45	- .01	-1.13	- .00	.00	22.5	.0	25.6	.0	19.8	1.4	-1.6
3- 9	- .00	- .46	- .01	-1.19	- .00	.00	19.4	.0	23.0	.0	10.2	3.3	1.1
3-10	- .00	- .32	- .01	-1.22	- .00	.01	18.9	.0	21.4	.0	13.9	-3.8	.9
3-11	- .01	- .28	- .02	-1.25	- .00	.02	17.9	.0	17.4	.0	3.7	-1.6	.9
3-12	- .01	.63	- .02	-1.25	- .00	.01	13.8	.0	11.3	.0	.0	-2.6	1.3
3-13	- .01	- .42	- .02	-1.27	- .00	.04	10.5	.0	7.9	.0	.0	-2.1	1.3
3-14	- .01	- .40	- .02	-1.32	- .00	.04	2.4	.0	1.8	.0	.0	- .7	-1.0
<hr/>													
4- 1	.01	-3.22	- .01	- .73	- .00	.06	17.6	.0	71.9	.0	.0	-7.2	5.9
4- 2	.01	- .85	- .01	- .94	- .00	.01	17.6	.0	63.2	.0	.0	-2.1	5.3
4- 3	.01	- .34	- .01	- .99	- .00	.01	21.8	.0	57.8	.0	.0	1.1	5.0
4- 4	.01	.92	- .01	- .93	- .00	.02	28.7	.0	43.2	.0	.0	1.2	4.3
4- 5	.01	.94	- .01	- .84	- .00	.02	33.0	.0	32.8	.0	.0	1.5	3.5
4- 6	.01	1.05	- .00	- .74	- .00	.02	33.7	.0	24.6	.0	.0	1.3	2.7
4- 7	.01	1.20	- .00	- .61	- .00	.02	32.9	.0	16.8	.0	.0	1.0	1.8
4- 8	.01	1.27	- .00	- .46	- .00	.02	31.5	.0	9.5	.0	.0	.9	-1.5
4- 9	.01	1.27	.00	- .31	- .00	.02	27.3	.0	9.7	.0	.0	-1.2	-1.6
4-10	.01	3.02	.00	- .07	- .00	.02	21.2	.0	10.7	.0	.0	-1.0	-1.7
4-11	.01	2.84	.00	.17	- .00	.02	14.4	.0	9.1	.0	.0	-1.0	-1.8
4-12	.01	2.83	.00	.36	- .00	.02	10.7	.0	7.3	.0	.0	-1.2	-1.7
4-13	.01	2.03	.00	.56	- .02	.02	5.3	.0	3.9	.0	.0	-1.1	-1.3
4-14	.00	2.82	.00	.71	- .00	.02	2.1	.0	1.6	.0	.0	- .6	- .7
<hr/>													
5- 1	.00	-4.55	- .01	- .70	- .00	.13	9.7	.0	73.1	.0	.0	-7.6	6.0
5- 2	.01	- .47	- .01	- .89	- .00	.03	14.7	.0	65.6	.0	.0	-2.4	5.6
5- 3	.01	- .35	- .01	- .95	- .00	.03	19.1	.0	58.3	.0	.0	-1.2	5.2
5- 4	.01	.28	- .01	- .94	- .00	.03	23.1	.0	51.7	.0	.0	.8	4.9
5- 5	.01	.73	- .01	- .86	- .00	.02	29.6	.0	39.3	.0	.0	1.3	4.2
5- 6	.01	.50	- .01	- .80	- .00	.00	32.9	.0	29.4	.0	.0	1.4	3.3
5- 7	.01	.89	- .00	- .74	- .00	.01	32.8	.0	20.2	.0	.0	1.1	2.7
5- 8	.01	1.45	- .00	- .63	- .00	.01	32.6	.0	14.2	.0	.0	1.0	1.9
5- 9	.01	1.41	- .00	- .45	- .00	.01	30.5	.0	9.0	.0	.0	.8	-1.5
5-10	.01	1.59	.00	- .25	- .00	.01	25.8	.0	10.1	.0	.0	-1.1	-1.4
5-11	.01	3.22	.00	.03	- .00	.03	19.4	.0	10.3	.0	.0	1.1	-1.7

5-12	.01	2.46	.00	.27	-.00	-.01	12.3	.0	8.0	.0	.0	-1.1	-1.7
5-13	.01	2.57	.00	.48	-.00	-.01	8.7	.0	6.0	.0	.0	-1.2	-1.6
5-14	.01	2.61	.00	.60	-.00	-.01	2.0	.0	1.6	.0	.0	-.6	-.7
6- 1	.00	1.80	-.00	-.47	-.00	-.04	35.1	.0	42.3	.0	.0	10.0	2.6
6- 2	.00	2.55	-.00	-.21	-.00	-.04	34.8	.0	33.7	.0	.0	5.7	.8
6- 3	.00	2.18	-.00	-.04	-.00	-.04	35.7	.0	32.1	.0	.0	1.6	-.2
6- 4	.00	.56	-.00	.02	-.00	-.03	33.6	.0	30.6	.0	.0	-1.5	-.3
6- 5	.00	-.23	-.00	.01	-.00	-.02	27.5	.0	27.5	.0	.0	-1.2	-.1
6- 6	.00	-.02	-.00	-.00	-.00	-.01	24.4	.0	24.4	.0	.0	.1	.0
6- 7	.00	.01	-.00	-.00	-.00	-.00	21.3	.0	21.3	.0	.0	.1	.0
6- 8	.00	.00	.00	-.00	-.00	-.00	18.3	.0	18.2	.0	.0	-.0	.0
6- 9	.00	.00	.00	-.00	-.00	-.00	15.2	.0	15.2	.0	.0	.0	.0
6-10	.00	.00	.00	.00	-.00	.00	12.1	.0	12.1	.0	.0	-.0	.0
6-11	.00	.00	.00	.00	-.00	.00	9.0	.0	9.0	.0	.0	-.0	.0
6-12	.00	.00	.00	.00	-.00	.00	5.9	.0	5.9	.0	.0	-.0	.0
6-13	.00	.00	.00	.00	-.00	.00	4.4	.0	4.4	.0	.0	-.0	.0
6-14	.00	.00	.00	.00	-.00	.00	1.3	.0	1.3	.0	.0	-.0	.0
7- 1	.00	2.65	-.00	-.39	-.00	-.00	35.4	.0	43.7	.0	.0	9.9	2.6
7- 2	.00	2.69	-.00	-.12	-.00	-.00	38.3	.0	32.9	.0	.0	3.9	.3
7- 3	.00	1.21	-.00	.02	-.00	-.00	38.1	.0	31.3	.0	.0	-1.4	-.3
7- 4	.00	-.26	-.00	.02	-.00	-.00	29.5	.0	28.3	.0	.0	-1.9	-.2
7- 5	.00	-.07	-.00	-.00	-.00	-.00	25.1	.0	25.5	.0	.0	-.1	.0
7- 6	.00	.02	-.00	-.00	-.00	-.00	22.1	.0	22.1	.0	.0	.1	.0
7- 7	.00	.00	.00	-.00	-.00	-.00	19.0	.0	19.0	.0	.0	-.0	.0
7- 8	.00	.00	.00	-.00	-.00	.00	15.9	.0	15.9	.0	.0	-.0	.0
7- 9	.00	.00	.00	.00	-.00	.00	12.9	.0	12.8	.0	.0	-.0	.0
7-10	.00	.00	.00	.00	-.00	.00	9.8	.0	9.8	.0	.0	-.0	.0
7-11	.00	.00	.00	.00	-.00	.00	6.7	.0	6.7	.0	.0	-.0	.0
7-12	.00	.00	.00	.00	-.00	.00	5.2	.0	5.2	.0	.0	-.0	.0
7-13	.00	.00	.00	.00	-.00	.00	2.9	.0	2.9	.0	.0	-.0	.0
7-14	.00	.00	.00	.00	-.00	.00	1.3	.0	1.3	.0	.0	-.0	.0
8- 1	.00	1.60	-.00	-.47	-.00	.04	36.4	.0	46.1	.0	.0	10.0	2.6
8- 2	.00	2.55	-.00	-.21	-.00	.04	38.5	.0	34.2	.0	.0	5.7	.8
8- 3	.00	2.18	-.00	-.04	-.00	.04	40.0	.0	32.2	.0	.0	1.6	-.2
8- 4	.00	.56	-.00	.02	-.00	.03	37.5	.0	30.7	.0	.0	-1.5	-.3
8- 5	.00	-.23	-.00	.01	-.00	.02	29.1	.0	28.3	.0	.0	-1.2	-.1
8- 6	.00	-.02	-.00	-.00	-.00	.01	24.7	.0	25.2	.0	.0	.1	.0
8- 7	.00	.01	-.00	-.00	-.00	.00	21.5	.0	21.5	.0	.0	.1	.0
8- 8	.00	.00	.00	-.00	-.00	.00	18.3	.0	18.3	.0	.0	-.0	.0
8- 9	.00	.00	.00	-.00	-.00	.00	15.2	.0	15.2	.0	.0	.0	.0
8-10	.00	.00	.00	.00	-.00	-.00	12.1	.0	12.1	.0	.0	-.0	.0
8-11	.00	.00	.00	.00	-.00	-.00	9.0	.0	9.0	.0	.0	-.0	.0
8-12	.00	.00	.00	.00	-.00	-.00	5.9	.0	5.9	.0	.0	-.0	.0
8-13	.00	.00	.00	.00	-.00	-.00	4.4	.0	4.4	.0	.0	-.0	.0
8-14	.00	.00	.00	.00	-.00	-.00	1.3	.0	1.3	.0	.0	-.0	.0
9- 1	.00	-.00	-.00	.00	-.00	.00	78.6	.0	78.7	.0	.0	-.0	.0
9- 2	.00	-.00	-.00	.00	-.00	.00	65.5	.0	65.6	.0	.0	-.0	.0
9- 3	.00	-.00	-.00	.00	-.00	.00	52.4	.0	52.5	.0	.0	-.0	.0
9- 4	.00	-.00	.00	-.00	-.00	.00	39.3	.0	39.4	.0	.0	-.0	.0
9- 5	.00	-.00	.00	-.00	-.00	.00	26.2	.0	26.2	.0	.0	-.0	.0
9- 6	.00	-.00	.00	-.00	-.00	.00	13.1	.0	13.1	.0	.0	-.0	.0
10- 1	.00	.00	-.03	-1.12	.00	.00	.0	.0	.0	-.5	.0	.0	.0
10- 2	.00	.01	-.03	-1.12	.00	.00	.0	.0	.0	-.5	.0	.0	.0
10- 3	.00	.01	-.03	-1.12	.00	.00	.0	.0	.0	-.5	.0	.0	.0
10- 4	.00	-.02	-.03	-1.12	.00	.00	.0	.0	.0	-.5	.0	.0	.0
10- 5	.00	.03	-.03	-1.12	.00	.00	.0	.0	.0	-.5	.0	.0	.0
10- 6	.00	-.05	-.03	-1.12	.00	.00	.0	.0	.0	-.4	.0	.0	.0

PCRV -0.03 -1.17 .00 .00

CORE SUPPORT FLOOR.....SUPPORT POST LOADS.....SUPPORT ELEMENT LATERAL IMPACT LOADS,RELATIVE U AND W.....

I(ELEMENT) FVL(I) FVR(I) FHL(I) FHR(I) FBRU(I) FBRL(I) FBLU(I) FBLL(I) UREL(I) WREL(I)

1	129.4	67.2	.0	.0	6.0	.0	42.5	3.9	.0067	-.0001
2	102.8	137.2	.0	.0	42.5	3.9	40.8	43.9	.0178	-.0002
3	110.3	132.2	.0	.0	40.8	43.9	.0	.0	.0289	-.0002
4	82.4	83.2	.0	.0	.0	.0	.0	.0	.0292	-.0001

POSITION COORDINATES OF BOUNDARY CONTAINER

XMAX= 31.656, XMIN= -2.029, YMAX= 82.158, YMIN= .000

DELTA DISPLMNTS OF 4 CORNERS (DISPL) AT LL= 2000

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

[illegible][illegible][illegible][illegible]

[illegible][illegible][illegible][illegible][illegible][illegible][illegible]

TIME = 1.05000 INTERVAL = 2500

COL-8	THETA	THETAD	U	UD	W	WD	FVL	FVC	FVR	FBL	FBR	FRI	FOS
1- 1	-.01	-.16	-.03	-1.11	.00	.00	.0	.0	.0	28.0	6.9	.0	.0
1- 2	-.01	-.02	-.03	-1.13	.00	.00	.0	.0	.0	7.7	5.4	1.4	-2.1
1- 3	-.01	-.18	-.04	-1.15	.00	.00	.0	.0	.0	5.7	3.9	-.7	-1.3
1- 4	-.01	-.48	-.04	-1.21	.00	.00	.0	.0	.0	4.3	2.9	-.7	-.7
1- 5	-.01	-.59	-.04	-1.33	.00	.00	.0	.0	.0	5.1	2.0	.8	-1.7
1- 6	-.00	-.25	-.04	-1.43	.00	.00	.0	.0	.0	6.7	1.0	-.8	-1.8
2- 1	-.01	-.17	-.03	-1.11	-.00	.00	149.7	.0	33.4	16.2	28.0	-14.3	-10.1
2- 2	-.01	-.23	-.03	-1.11	-.00	.00	113.4	.0	48.8	4.3	7.7	-6.1	-9.6
2- 3	-.01	-.34	-.04	-1.13	-.00	.00	86.6	.0	41.0	2.2	5.7	-3.8	-8.5
2- 4	-.01	-.43	-.04	-1.21	-.00	.00	69.5	.0	46.7	3.1	4.3	2.6	-3.9
2- 5	-.01	-.50	-.04	-1.34	-.00	.00	48.5	.0	43.0	5.5	5.1	2.5	-2.7
2- 6	-.01	-.52	-.04	-1.48	-.00	.00	23.8	.0	22.0	7.5	6.7	3.8	-3.2
3- 1	-.00	-.10	-.02	-1.10	-.00	.01	75.0	.0	12.3	.0	13.5	-7.5	-13.2
3- 2	-.00	-.09	-.02	-1.10	-.00	.01	58.4	.0	28.4	.0	2.7	-2.0	-3.8
3- 3	-.01	-.08	-.02	-1.09	-.00	.01	52.3	.0	31.4	.0	.0	-1.4	-4.1
3- 4	-.01	-.11	-.02	-1.09	-.00	.02	46.0	.0	31.2	.0	3.2	-1.7	-4.2
3- 5	-.01	-.06	-.02	-1.09	-.00	.02	36.1	.0	27.8	.0	1.1	-.9	-1.8
3- 6	-.01	-.08	-.02	-1.09	-.00	.03	30.1	.0	24.7	.0	2.4	1.1	-1.8
3- 7	-.01	-.22	-.03	-1.10	-.00	.03	26.3	.0	25.5	.0	1.3	1.1	-1.0
3- 8	-.01	-.43	-.03	-1.13	-.00	.04	22.9	.0	24.7	.0	2.7	1.3	-.5
3- 9	-.01	-.63	-.03	-1.20	-.00	.04	19.8	.0	21.7	.0	.5	-.5	.2
3-10	-.01	-.75	-.03	-1.28	-.00	.04	15.3	.0	16.3	.0	2.1	1.0	-.7
3-11	-.01	-.81	-.03	-1.37	-.00	.05	13.4	.0	11.6	.0	1.3	-1.3	.6
3-12	-.01	-.85	-.03	-1.44	-.00	.05	10.7	.0	7.5	.0	4.9	1.2	-.6
3-13	-.01	-.88	-.03	-1.51	-.00	.05	8.4	.0	6.3	.0	2.8	1.4	-1.0
3-14	-.01	-.89	-.03	-1.58	-.00	.05	3.0	.0	2.3	.0	4.8	.9	-1.0
4- 1	.00	.61	-.02	-1.12	-.00	.02	1.6	.0	78.8	.0	.0	-2.8	3.8
4- 2	.01	.45	-.02	-1.10	-.00	.02	5.0	.0	70.2	.0	.0	-2.4	4.2
4- 3	.01	.27	-.02	-1.09	-.00	.02	6.9	.0	64.5	.0	.0	-1.6	4.3
4- 4	.01	.67	-.02	-1.04	-.00	.03	10.4	.0	54.4	.0	.0	-1.0	3.8
4- 5	.02	.70	-.02	-.96	-.00	.03	15.3	.0	48.9	.0	.0	-1.2	3.4
4- 6	.02	.77	-.01	-.88	-.00	.03	17.5	.0	45.2	.0	.0	-1.4	3.5
4- 7	.02	.62	-.01	-.80	-.00	.03	19.3	.0	41.6	.0	.0	-1.5	2.8
4- 8	.03	2.10	-.01	-.65	-.00	.06	20.7	.0	37.3	.0	.0	-.9	1.6
4- 9	.04	2.27	-.00	-.41	-.00	.07	20.7	.0	31.8	.0	.0	-1.0	1.5
4-10	.04	2.35	-.00	-.15	-.00	.07	18.2	.0	24.7	.0	.0	1.4	1.7
4-11	.04	2.36	.00	.05	-.00	.07	12.6	.0	16.3	.0	.0	1.7	-1.7
4-12	.04	2.31	.01	.20	-.00	.07	10.2	.0	11.9	.0	.0	1.7	-1.7
4-13	.04	2.24	.01	.35	-.00	.07	6.2	.0	5.7	.0	.0	1.3	-1.3
4-14	.04	2.22	.01	.46	-.00	.07	2.8	.0	2.2	.0	.0	.7	-.8
5- 1	.01	.88	-.02	-1.12	-.00	.03	.0	.0	78.1	4.5	.0	2.1	5.3
5- 2	.01	.83	-.02	-1.09	-.00	.03	7.7	.0	70.1	3.4	.0	-3.2	4.7
5- 3	.01	.78	-.02	-1.07	-.00	.03	8.1	.0	63.3	1.7	.0	-3.7	4.0
5- 4	.01	.78	-.02	-1.02	-.00	.03	10.3	.0	58.0	2.3	.0	-2.4	4.0
5- 5	.02	.97	-.02	-.94	-.00	.03	12.3	.0	50.5	2.7	.0	-2.0	4.0
5- 6	.02	.79	-.01	-.83	-.00	.03	18.1	.0	47.0	.0	.0	-1.2	3.5
5- 7	.02	.48	-.01	-.75	-.00	.03	20.7	.0	43.2	.0	.0	-1.5	3.1
5- 8	.02	.47	-.01	-.71	-.00	.03	20.5	.0	39.9	.0	.0	1.6	2.4
5- 9	.03	2.33	-.01	-.47	-.00	.04	21.7	.0	35.4	.0	.0	.9	1.5
5-10	.04	2.01	-.00	-.33	-.00	.07	19.1	.0	29.0	.0	.0	-1.3	1.5
5-11	.04	2.14	.00	-.11	-.00	.07	16.8	.0	21.7	.0	.0	1.5	1.8

5-12	.04	2.28	.00	.07	-.00	.07	12.7	.0	13.6	.0	.0	1.7	-1.7
5-13	.04	2.40	.01	.27	-.00	.07	9.9	.0	9.4	.0	.0	1.9	-1.6
5-14	.04	2.43	.01	.47	-.00	.07	2.8	.0	2.6	.0	.0	.9	-1.0
6- 1	.00	.68	-.01	-1.12	-.00	.03	23.9	.0	73.3	.0	4.5	8.6	5.0
6- 2	.01	.63	-.01	-1.10	-.00	.03	32.8	.0	67.3	.0	3.4	7.3	4.7
6- 3	.01	.58	-.01	-1.07	-.00	.03	36.0	.0	60.9	.0	1.7	5.4	5.2
6- 4	.01	.56	-.01	-1.04	-.00	.03	37.5	.0	54.7	.0	2.3	3.8	5.1
6- 5	.01	.86	-.01	-.97	-.00	.03	37.5	.0	43.0	.0	2.7	2.5	4.7
6- 6	.01	1.36	-.00	-.87	-.00	.03	37.4	.0	32.1	.0	.0	-2.2	4.1
6- 7	.01	1.87	-.00	-.69	-.00	.03	37.8	.0	22.1	.0	.0	-2.1	2.6
6- 8	.01	2.28	-.00	-.43	-.00	.03	35.7	.0	19.0	.0	.0	-1.9	-1.7
6- 9	.01	2.45	.00	-.14	-.00	.03	31.8	.0	17.3	.0	.0	-1.7	-2.0
6-10	.00	1.09	.00	.07	-.00	.06	26.3	.0	15.6	.0	.0	-1.6	-1.9
6-11	-.00	.60	.00	.15	-.00	.07	20.1	.0	12.0	.0	.0	-1.2	-1.6
6-12	-.00	.63	.00	.20	-.00	.07	13.3	.0	9.5	.0	.0	-1.3	-1.7
6-13	-.00	.66	.00	.25	-.00	.07	9.5	.0	7.2	.0	.0	-1.4	-1.5
6-14	-.00	.67	.00	.30	-.00	.07	2.2	.0	1.8	.0	.0	-.6	-.7
7- 1	.01	.87	-.01	-1.11	-.00	.04	26.1	.0	75.4	.0	.0	9.1	6.8
7- 2	.01	.82	-.01	-1.07	-.00	.04	38.3	.0	62.7	.0	.0	5.5	6.1
7- 3	.01	.82	-.01	-1.02	-.00	.05	39.5	.0	54.9	.0	.0	4.0	5.7
7- 4	.01	1.00	-.01	-.93	-.00	.05	38.4	.0	41.4	.0	.0	2.6	4.7
7- 5	.01	1.31	-.00	-.81	-.00	.05	37.1	.0	30.1	.0	.0	-2.4	3.6
7- 6	.01	1.62	-.00	-.65	-.00	.06	36.5	.0	23.1	.0	.0	-2.2	2.5
7- 7	.01	1.80	-.00	-.44	-.00	.06	35.5	.0	20.6	.0	.0	-1.9	-1.7
7- 8	.01	1.84	.00	-.22	-.00	.06	33.0	.0	18.0	.0	.0	-1.8	-1.9
7- 9	.00	2.26	.00	.01	-.00	.05	28.2	.0	15.4	.0	.0	-1.6	-1.9
7-10	-.00	.54	.00	.16	-.00	.09	22.0	.0	12.6	.0	.0	-1.4	-1.7
7-11	-.00	.50	.00	.20	-.00	.09	15.3	.0	10.3	.0	.0	-1.2	-1.8
7-12	-.00	.47	.00	.23	-.00	.09	11.5	.0	8.3	.0	.0	-1.4	-1.6
7-13	-.00	.45	.00	.26	-.00	.08	5.7	.0	4.4	.0	.0	-1.3	-1.0
7-14	-.00	.45	.00	.28	-.00	.08	2.3	.0	1.8	.0	.0	-.6	-.7
8- 1	.01	1.06	-.01	-1.12	-.00	.04	27.5	.0	77.0	.0	.0	8.6	6.9
8- 2	.01	.94	-.01	-1.08	-.00	.05	36.9	.0	68.4	.0	.0	6.2	6.4
8- 3	.01	.87	-.01	-1.04	-.00	.05	40.1	.0	60.2	.0	.0	4.2	6.0
8- 4	.01	.84	-.01	-.99	-.00	.05	39.9	.0	52.4	.0	.0	3.2	5.5
8- 5	.01	1.01	-.01	-.90	-.00	.06	37.3	.0	38.5	.0	.0	2.2	4.5
8- 6	.01	1.37	-.00	-.78	-.00	.06	35.7	.0	27.4	.0	.0	-2.0	3.4
8- 7	.01	1.75	-.00	-.60	-.00	.07	35.2	.0	24.0	.0	.0	-1.9	2.2
8- 8	.01	1.98	-.00	-.38	-.00	.07	35.8	.0	20.9	.0	.0	-1.7	-1.6
8- 9	.01	2.04	.00	-.14	-.00	.07	32.9	.0	17.3	.0	.0	-1.5	-1.9
8-10	.00	1.18	.00	.04	-.00	.09	27.4	.0	13.5	.0	.0	-1.5	-1.7
8-11	-.00	.74	.00	.14	-.00	.10	20.8	.0	11.7	.0	.0	-1.1	-1.7
8-12	-.00	.74	.00	.20	-.00	.10	13.6	.0	9.2	.0	.0	-1.3	-1.7
8-13	-.00	.74	.00	.26	-.00	.10	9.7	.0	7.0	.0	.0	-1.4	-1.5
8-14	-.00	.74	.00	.32	-.00	.10	2.3	.0	1.8	.0	.0	-.6	-.6
9- 1	.00	-.00	-.00	.00	-.00	.00	78.7	.0	78.6	.0	.0	-.0	-.0
9- 2	.00	-.00	-.00	.00	-.00	.00	65.6	.0	65.5	.0	.0	-.0	-.0
9- 3	.00	-.00	.00	.00	-.00	.00	52.5	.0	52.4	.0	.0	-.0	-.0
9- 4	.00	-.00	.00	-.00	-.00	.00	39.4	.0	39.3	.0	.0	-.0	-.0
9- 5	.00	-.00	.00	-.00	-.00	.00	26.2	.0	26.2	.0	.0	-.0	-.0
9- 6	.00	-.00	.00	-.00	-.00	.00	13.1	.0	13.1	.0	.0	-.0	-.0
10- 1	.00	.00	-.04	-1.31	.00	.00	.0	.0	.0	-.6	.0	.0	.0
10- 2	.00	-.00	-.04	-1.31	.00	.00	.0	.0	.0	-.6	.0	-.0	.0
10- 3	.00	.00	-.04	-1.31	.00	.00	.0	.0	.0	-.6	.0	.0	.0
10- 4	.00	.06	-.04	-1.31	.00	.00	.0	.0	.0	-.6	.0	.0	.0
10- 5	-.00	.04	-.04	-1.31	.00	.00	.0	.0	.0	-.6	.0	.0	.0
10- 6	.00	-.02	-.04	-1.31	.00	.00	.0	.0	.0	-.6	.0	.0	.0

PCRV -1.04 -1.27 .00 .00

CORE SUPPORT FLOOR.....SUPPORT POST LOADS.....SUPPORT ELEMENT LATERAL IMPACT LOADS,RELATIVE U AND W.....

I(ELEMENT) FVL(I) FVR(I) FHL(I) FHR(I) FBRU(I) FBRL(I) FBLU(I) FBLL(I) UREL(I) WREL(I)

1	169.8	35.8	.0	.0	8.2	.0	42.7	3.6	.0102	-.0001
2	108.0	135.3	.0	.0	42.7	3.6	24.0	15.3	.0211	-.0002
3	90.8	164.2	.0	.0	24.0	15.3	.0	.0	.0321	-.0002
4	82.5	83.1	.0	.0	.0	.0	.0	.0	.0415	-.0001

POSITION COORDINATES OF BOUNDARY CONTAINER

XMAX= 31.644, XMIN= -2.041, YMAX= 82.158, YMIN= .000

DELTA DISPLMNTS OF 4 CORNERS (DISPL) AT LL= 2500

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.01	.01	-.03	-.03
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.01	.01	-.03	-.03
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.01	.01	-.03	-.03
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	-.03	-.03
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	-.03	-.03
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00

-.04	-.04	.00	.00	-.01	-.01	-.01	-.01	-.01	-.01	-.02	-.02	-.02	-.02	-.02	-.02
-.04	-.04	-.04	-.04												
.00	.00	-.00	-.00	-.00	-.00	-.00	-.00	-.00	-.00	.00	-.00	-.00	-.00	-.00	-.00
-.00	.00	-.00	.00												

-.04	-.04	-.00	-.00	-.01	-.01	-.01	-.01	-.01	-.01	-.02	-.02	-.02	-.02	-.02	-.02
-.04	-.04	-.03	-.03												
.00	-.00	-.00	-.00	-.00	-.00	-.00	-.00	-.00	-.00	.00	-.00	-.00	-.00	-.00	-.00
-.00	.00	-.00	.00												

-.04	-.04	.00	.00	-.01	-.01	-.01	-.01	-.01	-.01	-.02	-.02	-.02	-.02	-.02	-.02
-.03	-.03	-.03	-.03												
.00	-.00	-.00	-.00	-.00	-.00	-.00	-.00	-.00	-.00	.00	-.00	-.00	-.00	-.00	-.00
-.00	.00	-.00	.00												

-.04	-.04	-.00	-.00	-.01	-.01	-.01	-.01	-.01	-.01	-.02	-.02	-.02	-.02	-.02	-.02
-.03	-.03	-.03	-.03												
.00	-.00	-.00	-.00	-.00	-.00	-.00	-.00	-.00	-.00	.00	-.00	-.00	-.00	-.00	-.00
-.00	.00	-.00	.00												

-.04	-.04	-.00	-.00	-.01	-.01	-.01	-.01	-.01	-.01	-.02	-.02	-.02	-.02	-.02	-.02
-.03	-.03	-.03	-.03												
.00	-.00	-.00	-.00	-.00	-.00	-.00	-.00	-.00	-.00	.00	-.00	-.00	-.00	-.00	-.00
-.00	.00	-.00	.00												

-.04	-.04	-.00	-.00	-.01	-.01	-.01	-.01	-.01	-.01	-.02	-.02	-.02	-.02	-.02	-.02
-.03	-.03	-.03	-.03												
.00	-.00	-.00	-.00	-.00	-.00	-.00	-.00	-.00	-.00	.00	-.00	-.00	-.00	-.00	-.00
-.00	.00	-.00	.00												

CORE SUPPORT BLOCKS

-.00	-.00	-.01	-.01	-.02	-.02	-.03	-.03								
-.00	-.00	-.00	-.00	-.00	-.00	-.00	.00								

-.00	-.00	-.01	-.01	-.02	-.02	-.03	-.03								
-.00	-.00	-.00	-.00	-.00	-.00	-.00	.00								

MCOCO SIMULATION-1/5 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1 CARD 1

----- TIME = 1.06000 INTERVAL = 3000 -----

COL-B	THETA	THETAD	U	UD	W	WD	FVL	FVC	FVR	FBL	FBR	FRI	FDS
1- 1	-.01	-.04	-.04	-1.17	.00	.00	.0	.0	.0	25.3	7.8	.0	.0
1- 2	-.01	-.10	-.05	-1.18	.00	.00	.0	.0	.0	8.1	5.9	-1.6	-1.0
1- 3	-.01	-.32	-.05	-1.22	.00	.00	.0	.0	.0	4.9	4.1	.4	-.8
1- 4	-.01	-.30	-.05	-1.28	.00	.00	.0	.0	.0	3.5	2.4	.3	-.3
1- 5	-.01	-.23	-.05	-1.34	.00	.00	.0	.0	.0	2.8	.9	-.3	-.6
1- 6	-.01	.76	-.05	-1.29	.00	.00	.0	.0	.0	2.0	-1.0	.6	.4
2- 1	-.01	-.03	-.04	-1.17	-.00	-.01	154.4	.0	15.1	14.3	25.3	-8.7	-12.3
2- 2	-.01	-.08	-.05	-1.18	-.00	-.01	122.5	.0	28.2	3.5	8.1	-2.2	-9.0
2- 3	-.01	-.15	-.05	-1.24	-.00	-.01	95.3	.0	39.0	2.4	4.9	2.9	-6.5
2- 4	-.01	-.23	-.05	-1.29	-.00	-.01	69.5	.0	42.6	2.7	3.5	2.3	-4.3
2- 5	-.01	-.29	-.05	-1.35	-.00	-.01	43.5	.0	34.1	1.5	2.8	2.0	-3.9
2- 6	-.01	-.30	-.05	-1.40	-.00	-.01	19.0	.0	16.3	.0	2.0	1.7	-2.6
3- 1	-.01	.06	-.03	-1.17	-.00	-.00	75.2	.0	.0	.0	12.9	-4.2	-15.7
3- 2	-.01	-.01	-.03	-1.16	-.00	-.00	55.3	.0	17.5	.0	1.5	-.8	-4.1
3- 3	-.01	-.07	-.03	-1.16	-.00	-.00	48.9	.0	20.8	.0	.0	.8	-3.6
3- 4	-.01	-.16	-.03	-1.17	-.00	-.00	43.0	.0	22.4	.0	3.5	1.2	-3.9
3- 5	-.01	-.28	-.04	-1.20	-.00	-.01	33.9	.0	26.1	.0	.0	.7	-1.6
3- 6	-.01	-.41	-.04	-1.23	-.00	-.01	29.3	.0	24.6	.0	2.4	.8	-1.8
3- 7	-.01	-.47	-.04	-1.29	-.00	-.01	25.5	.0	21.4	.0	.0	.6	-.7
3- 8	-.01	-.43	-.04	-1.35	-.00	-.00	22.2	.0	17.7	.0	2.7	.8	-.8
3- 9	-.01	-.31	-.04	-1.40	-.00	-.00	20.0	.0	14.9	.0	.0	.6	.4
3-10	-.01	-.14	-.04	-1.42	-.00	-.00	17.0	.0	12.9	.0	1.5	-.4	-.2
3-11	-.01	-.00	-.04	-1.42	-.00	-.00	14.0	.0	10.3	.0	.0	-.5	-.4
3-12	-.01	.07	-.04	-1.41	-.00	.00	10.1	.0	7.0	.0	.0	-.5	-.6
3-13	-.01	.11	-.04	-1.40	-.00	.00	7.5	.0	5.2	.0	.0	-.7	-.5
3-14	-.01	.11	-.05	-1.39	-.00	.00	2.0	.0	1.4	.0	.0	-.4	-.3
4- 1	.01	.90	-.03	-1.14	-.00	.03	5.2	.0	73.9	.0	.0	-3.8	2.5
4- 2	.01	.84	-.03	-1.08	-.00	.03	4.7	.0	68.2	.0	.0	-1.2	2.0
4- 3	.01	.77	-.03	-1.02	-.00	.03	2.6	.0	65.2	.0	.0	-1.7	1.7
4- 4	.02	-.37	-.03	-1.00	-.00	.01	1.5	.0	59.4	.0	.0	-.6	1.4
4- 5	.02	.71	-.03	-.98	-.00	.04	.9	.0	53.2	.0	.0	.2	1.4
4- 6	.03	.61	-.02	-.91	-.00	.04	.7	.0	46.3	.0	.0	.4	1.4
4- 7	.04	3.47	-.02	-.69	-.00	.11	.6	.0	40.4	.0	.0	-.2	1.3
4- 8	.05	.65	-.01	-.47	-.00	.04	.0	.0	33.4	.0	.0	.9	1.7
4- 9	.05	.67	-.01	-.41	-.00	.05	3.9	.0	26.4	.0	.0	.9	2.2
4-10	.05	.75	-.00	-.34	-.00	.05	4.7	.0	19.3	.0	.0	-.8	2.0
4-11	.05	.82	.00	-.27	-.00	.05	5.2	.0	12.7	.0	.0	-.8	1.7
4-12	.05	.86	.01	-.20	-.00	.05	5.0	.0	9.7	.0	.0	-.7	1.5
4-13	.05	.88	.01	-.14	-.00	.05	3.3	.0	5.0	.0	.0	-.7	1.0
4-14	.05	.89	.01	-.08	-.00	.05	1.5	.0	2.1	.0	.0	-.5	.5
5- 1	.01	1.28	-.03	-1.15	-.00	.04	.0	.0	76.1	1.3	.0	-4.4	4.3
5- 2	.01	1.18	-.03	-1.09	-.00	.04	2.9	.0	71.3	1.4	.0	-1.8	3.7
5- 3	.01	1.03	-.03	-1.03	-.00	.04	3.5	.0	68.2	.7	.0	-1.1	2.8
5- 4	.02	.73	-.03	-.96	-.00	.05	4.0	.0	65.6	1.8	.0	-1.0	2.4
5- 5	.02	.28	-.03	-.90	-.00	.05	4.7	.0	59.8	2.6	.0	.7	1.8
5- 6	.02	.25	-.02	-.87	-.00	.06	4.3	.0	53.4	.0	.0	.6	1.4
5- 7	.03	1.06	-.02	-.81	-.00	.09	3.0	.0	46.9	.0	.0	.6	1.4
5- 8	.04	3.80	-.02	-.54	-.00	.16	1.9	.0	40.8	.0	.0	.4	1.4
5- 9	.05	.13	-.01	-.33	-.00	.07	.0	.0	33.5	.0	.0	.9	1.7
5-10	.05	.15	-.01	-.32	-.00	.08	3.7	.0	26.2	.0	.0	.9	2.2
5-11	.05	.36	-.00	-.30	-.00	.08	4.7	.0	18.9	.0	.0	-.7	2.0

5-12	.05	.52	.00	-.27	-.00	.08	5.2	.0	11.5	.0	.0	-.8	1.7
5-13	.05	.65	.01	-.22	-.00	.08	4.7	.0	8.3	.0	.0	-.6	1.5
5-14	.05	.67	.01	-.16	-.00	.08	1.6	.0	2.1	.0	.0	-.5	.6
6- 1	.01	.86	-.02	-1.15	-.00	.04	2.1	.0	79.1	.0	1.3	-6.1	4.3
6- 2	.01	.70	-.02	-1.10	-.00	.04	2.7	.0	74.0	.0	1.4	-2.4	4.0
6- 3	.01	.54	-.02	-1.05	-.00	.05	5.8	.0	69.6	.0	.7	-1.9	4.3
6- 4	.01	.35	-.02	-1.02	-.00	.05	8.5	.0	63.4	.0	1.8	-1.3	4.0
6- 5	.02	.32	-.02	-1.00	-.00	.06	13.9	.0	56.1	.0	2.6	-.9	4.1
6- 6	.02	.36	-.01	-.97	-.00	.06	18.3	.0	48.1	.0	.0	-1.1	3.8
6- 7	.02	.62	-.01	-.94	-.00	.04	21.9	.0	39.8	.0	.0	-1.6	3.6
6- 8	.02	.98	-.01	-.87	-.00	.01	24.7	.0	34.8	.0	.0	-2.1	2.8
6- 9	.03	1.07	-.01	-.77	-.00	-.02	26.2	.0	29.5	.0	.0	-1.9	2.2
6-10	.03	2.35	-.00	-.61	-.00	-.03	24.6	.0	24.1	.0	.0	-2.3	1.3
6-11	.03	4.09	.00	-.28	-.00	-.03	18.7	.0	21.9	.0	.0	2.4	-1.7
6-12	.03	4.14	.00	.09	-.00	-.01	14.2	.0	17.6	.0	.0	2.8	-1.8
6-13	.03	6.16	.01	.58	-.00	.05	12.2	.0	14.6	.0	.0	2.0	-1.7
6-14	.03	6.45	.01	1.27	-.00	.05	3.1	.0	5.1	.0	.0	1.4	1.9
7- 1	.01	.72	-.02	-1.13	-.00	.03	.0	.0	76.3	.0	.0	-6.8	6.2
7- 2	.01	.59	-.02	-1.07	-.00	.04	6.6	.0	68.7	.0	.0	-2.8	5.6
7- 3	.02	.46	-.02	-1.03	-.00	.04	10.4	.0	64.0	.0	.0	-2.0	5.2
7- 4	.02	.35	-.02	-1.00	-.00	.05	16.7	.0	55.6	.0	.0	1.1	4.4
7- 5	.02	.35	-.01	-.98	-.00	.05	21.6	.0	45.6	.0	.0	1.2	3.9
7- 6	.02	.68	-.01	-.94	-.00	.03	25.3	.0	37.8	.0	.0	-1.1	3.1
7- 7	.02	.94	-.01	-.86	-.00	.01	28.0	.0	31.8	.0	.0	-1.7	2.8
7- 8	.02	1.16	-.01	-.75	-.00	.01	28.7	.0	25.5	.0	.0	-2.2	2.4
7- 9	.03	2.20	-.00	-.59	-.00	.00	26.3	.0	20.6	.0	.0	-2.3	1.4
7-10	.03	3.22	.00	-.32	-.00	-.01	20.4	.0	18.2	.0	.0	2.4	-1.7
7-11	.03	4.47	.00	-.03	-.00	-.02	13.8	.0	17.1	.0	.0	3.0	-1.8
7-12	.03	4.96	.00	.33	-.00	.00	12.1	.0	14.7	.0	.0	2.8	-1.7
7-13	.03	5.03	.01	.78	-.00	.03	6.7	.0	9.9	.0	.0	2.4	-1.6
7-14	.03	4.68	.01	1.33	-.00	.03	2.7	.0	5.7	.0	.0	1.5	-1.1
8- 1	.01	.77	-.02	-1.21	-.00	.04	.0	.0	76.0	16.9	.0	8.7	10.1
8- 2	.01	.70	-.02	-1.16	-.00	.04	15.4	.0	65.6	5.0	.0	-7.1	5.9
8- 3	.01	.62	-.02	-1.12	-.00	.04	12.3	.0	60.2	.0	.0	-5.5	5.5
8- 4	.02	.53	-.02	-1.07	-.00	.04	14.1	.0	54.5	.0	.0	-4.1	5.1
8- 5	.02	.59	-.01	-1.01	-.00	.03	18.7	.0	45.2	.0	.0	-2.6	4.3
8- 6	.02	.89	-.01	-.93	-.00	.01	23.3	.0	38.6	.0	.0	-1.7	3.7
8- 7	.02	.98	-.01	-.83	-.00	.00	26.6	.0	32.2	.0	.0	-2.1	3.4
8- 8	.02	.99	-.01	-.74	-.00	.01	28.4	.0	27.5	.0	.0	-1.8	2.8
8- 9	.02	1.75	-.00	-.62	-.00	-.01	28.3	.0	24.9	.0	.0	-2.7	2.0
8-10	.02	2.39	-.00	-.42	-.00	-.01	25.3	.0	23.8	.0	.0	-2.9	1.7
8-11	.03	2.33	.00	-.15	-.00	-.01	19.1	.0	20.4	.0	.0	3.0	-1.7
8-12	.03	3.85	.00	.11	-.00	.03	13.7	.0	16.7	.0	.0	3.2	-1.8
8-13	.03	6.36	.01	.58	-.00	.10	12.1	.0	13.9	.0	.0	1.7	-1.7
8-14	.03	6.28	.01	1.04	-.00	.10	3.1	.0	4.9	.0	.0	1.2	2.3
9- 1	.01	1.17	-.01	-1.16	-.00	.06	85.3	.0	160.4	.0	21.6	27.7	19.0
9- 2	.01	1.23	-.01	-1.04	-.00	.06	102.0	.0	126.7	.0	.0	14.5	18.7
9- 3	.01	1.39	-.00	-.83	-.00	.06	98.0	.0	99.4	.0	.0	7.1	10.9
9- 4	.01	1.59	-.00	-.48	-.00	.05	82.1	.0	73.0	.0	.0	-5.8	-4.7
9- 5	.01	1.73	.00	-.01	-.00	.05	53.6	.0	46.1	.0	.0	5.2	-7.3
9- 6	.01	1.78	.00	.48	-.00	.05	23.3	.0	20.2	.0	.0	5.2	-6.5
10- 1	-.00	-.00	-.05	-1.34	.00	.00	.0	.0	.0	-.4	.0	.0	.0
10- 2	-.00	-.01	-.05	-1.34	.00	.00	.0	.0	.0	-.4	.0	-.0	.0
10- 3	.00	-.00	-.05	-1.34	.00	.00	.0	.0	.0	-.4	.0	-.0	.0
10- 4	.00	-.01	-.05	-1.34	.00	.00	.0	.0	.0	-.4	.0	-.0	.0
10- 5	.00	.00	-.05	-1.35	.00	.00	.0	.0	.0	-.4	.0	-.0	.0
10- 6	.00	-.00	-.05	-1.35	.00	.00	.0	.0	.0	-.4	.0	.0	.0

PCRV -0.05 -1.25 .00 .00

CORE SUPPORT FLOOR.....SUPPORT POST LOADS.....SUPPORT ELEMENT LATERAL IMPACT LOADS,RELATIVE U AND W.....

I (ELEMENT)	FVL(I)	FVR(I)	FHL(I)	FHR(I)	FBRU(I)	FBRL(I)	FBLU(I)	FBLL(I)	UREL(I)	WREL(I)
1	175.1	.0	.0	.0	9.8	.0	36.8	.0	.C124	.0001
2	106.6	128.5	.0	.0	36.8	.0	40.0	25.6	.0232	-.0002
3	75.2	174.3	.0	.0	40.0	25.6	34.8	48.5	.C342	-.0002
4	82.5	159.1	.0	.0	34.8	48.5	.0	.0	.0451	-.0001

POSITION COORDINATES OF BOUNDARY CONTAINER

XMAX= 31.631, XMIN= -2.054, YMAX= 82.158, YMIN= .000

DELTA DISPLMNTS OF 4 CORNERS (DISPL) AT LL= 3000

.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	-.05	-.05
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	-.05	-.05
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	-.05	-.05
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

7

.00	.00	.00	.00	.00	.00	.01	.01	.00	.00	.00	.00	.01	.01	-.04	-.04
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

.00	.00	.00	.00	.00	.00	.01	.01	.00	.00	.00	.00	.01	.01	-.04	-.04
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

[illegible]

-.05	-.05	-.00	-.00	-.02	-.02	-.02	-.02	-.02	-.02	-.03	-.03	-.03	-.03	-.03	-.03
-.05	-.05	-.05	-.05												
.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00	.00	-.00	-.00	-.00	-.00	-.00
-.00	.00	-.00	.00												

-.05	-.05	-.00	-.00	-.02	-.02	-.02	-.02	-.02	-.02	-.03	-.03	-.03	-.03	-.03	-.03
-.05	-.05	-.05	-.05												
.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00	.00	-.00	-.00	-.00	-.00	-.00
-.00	.00	-.00	.00												

-.05	-.05	-.00	-.00	-.02	-.02	-.02	-.02	-.02	-.02	-.03	-.03	-.03	-.03	-.03	-.03
-.05	-.05	-.05	-.05												
-.00	.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00	.00	-.00	-.00	-.00	-.00	.00
-.00	.00	-.00	.00												

-.05	-.05	-.01	-.01	-.02	-.02	-.02	-.02	-.02	-.02	-.03	-.03	-.03	-.03	-.03	-.03
-.04	-.04	-.04	-.04												
-.00	.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00	.00	-.00	-.00	-.00	-.00	.00
-.00	.00	-.00	.00												

-.05	-.05	-.01	-.01	-.02	-.02	-.02	-.02	-.02	-.02	-.03	-.03	-.03	-.03	-.03	-.03
-.04	-.04	-.04	-.04												
-.00	.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00	.00	-.00	-.00	-.00	-.00	.00
-.00	.00	-.00	.00												

-.05	-.05	-.01	-.01	-.02	-.02	-.02	-.02	-.02	-.02	-.03	-.03	-.03	-.03	-.03	-.03
-.04	-.04	-.04	-.04												
-.00	.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00	.00	-.00	-.00	-.00	-.00	.00
-.00	.00	-.00	.00												

CORE SUPPORT BLOCKS

-.01	-.01	-.02	-.02	-.03	-.03	-.04	-.04
.00	-.00	-.00	-.00	-.00	-.00	-.00	.00

-.01	-.01	-.02	-.02	-.03	-.03	-.04	-.04
.00	-.00	-.00	-.00	-.00	-.00	-.00	.00

DISC HAS 6 PLOT FRAMES

0 PLOT ERRORS WERE DETECTED

***** FINAL OUTPUT SUMMARY *****
MCOCO SIMULATION-1/5 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1 CARD 1

(ESTIMATED RUN TIME EXCEEDED...ANALYSIS NOT RUN TO COMPLETION)

RUN TERMINATED AT TIME = 1.06000 AFTER 3000 ITERATIONS

SUMMARY OF MINIMUM AND MAXIMUM DISPLACEMENTS

COLUMN -BLOCK	-----U-----				-----W-----				-----THETA-----			
	MIN	TIME	MAX	TIME	MIN	TIME	MAX	TIME	MIN	TIME	MAX	TIME
1- 1	-.04	1.06000	.00	.00000	.00	.00000	.00	.00000	-.01	1.06000	.00	.00000
1- 2	-.05	1.06000	.00	.00000	.00	.00000	.00	.00000	-.01	1.06000	.00	.00000
1- 3	-.05	1.06000	.00	.00000	.00	.00000	.00	.00000	-.01	1.06000	.00	.00000
1- 4	-.05	1.06000	.00	.00000	.00	.00000	.00	.00000	-.01	1.06000	.00	1.03042
1- 5	-.05	1.06000	.00	.00000	.00	.00000	.00	.00000	-.01	1.06000	.00	1.03174
1- 6	-.05	1.06000	.00	.00000	.00	.00000	.00	.00000	-.01	1.05808	.00	1.03034
2- 1	-.04	1.06000	.00	.00000	-.00	1.03416	.00	1.05782	-.01	1.06000	.00	.00000
2- 2	-.05	1.06000	.00	.00000	-.00	1.03402	.00	.00000	-.01	1.06000	.00	.00000
2- 3	-.05	1.06000	.00	.00000	-.00	1.03388	.00	.00000	-.01	1.06000	.00	.00000
2- 4	-.05	1.06000	.00	.00000	-.00	1.03374	.00	.00000	-.01	1.06000	.00	.00000
2- 5	-.05	1.06000	.00	.00000	-.00	1.03360	.00	.00000	-.01	1.06000	.00	.00000
2- 6	-.05	1.06000	.00	.00000	-.00	1.03658	.00	.00000	-.01	1.06000	.00	.00000
3- 1	-.03	1.06000	.00	.00000	-.00	1.04494	.00	.00000	-.01	1.05980	.00	.00000
3- 2	-.03	1.06000	.00	.00000	-.00	1.04506	.00	.00000	-.01	1.06000	.00	.00000
3- 3	-.03	1.06000	.00	.00000	-.00	1.04522	.00	.00000	-.01	1.06000	.00	.00000
3- 4	-.03	1.06000	.00	.00000	-.00	1.04626	.00	.00000	-.01	1.06000	.00	.00000
3- 5	-.04	1.06000	.00	.00000	-.00	1.04650	.00	.00000	-.01	1.06000	.00	.00000
3- 6	-.04	1.06000	.00	.00000	-.00	1.04670	.00	.00000	-.01	1.06000	.00	.00000
3- 7	-.04	1.06000	.00	.00000	-.00	1.04674	.00	.00000	-.01	1.06000	.00	.00000
3- 8	-.04	1.06000	.00	.00000	-.00	1.04672	.00	.00000	-.01	1.06000	.00	1.03000
3- 9	-.04	1.06000	.00	.00000	-.00	1.04668	.00	.00000	-.01	1.06000	.00	1.03000
3-10	-.04	1.06000	.00	.00000	-.00	1.04666	.00	.00000	-.01	1.06000	.00	1.03000
3-11	-.04	1.06000	.00	.00000	-.00	1.04664	.00	.00000	-.01	1.05790	.00	1.03230
3-12	-.04	1.06000	.00	.00000	-.00	1.04662	.00	.00000	-.01	1.05720	.00	1.03288
3-13	-.04	1.06000	.00	.00000	-.00	1.04662	.00	.00000	-.01	1.05692	.00	1.03310
3-14	-.05	1.06000	.00	.00000	-.00	1.04662	.00	.00000	-.01	1.05688	.00	1.03312
4- 1	-.03	1.06000	.00	.00000	-.00	1.04474	.00	.00000	.00	.00000	.01	1.03948
4- 2	-.03	1.06000	.00	.00000	-.00	1.04474	.00	.00000	.00	.00000	.01	1.05270
4- 3	-.03	1.06000	.00	.00000	-.00	1.04472	.00	.00000	.00	.00000	.01	1.05412
4- 4	-.03	1.06000	.00	.00000	-.00	1.04478	.00	.00000	.00	.00000	.02	1.05716
4- 5	-.03	1.06000	.00	.00000	-.00	1.04486	.00	.00000	.00	.00000	.02	1.06000
4- 6	-.02	1.06000	.00	1.03000	-.00	1.04494	.00	.00000	.00	.00000	.03	1.06000
4- 7	-.02	1.06000	.00	1.03362	-.00	1.04504	.00	.00000	.00	.00000	.04	1.06000
4- 8	-.01	1.06000	.00	1.03284	-.00	1.04514	.00	.00000	-.00	1.03000	.05	1.06000
4- 9	-.01	1.06000	.00	1.03552	-.00	1.04526	.00	.00000	-.00	1.03012	.05	1.06000
4-10	-.00	1.06000	.00	1.03892	-.00	1.04536	.00	.00000	-.00	1.03428	.05	1.06000
4-11	-.00	1.03000	.00	1.05082	-.00	1.04542	.00	.00000	-.00	1.03368	.05	1.06000
4-12	-.00	1.03034	.01	1.05470	-.00	1.04546	.00	.00000	-.00	1.03348	.05	1.06000
4-13	-.00	1.03236	.01	1.05642	-.00	1.04548	.00	.00000	-.00	1.03332	.05	1.06000
4-14	-.00	1.03286	.01	1.05888	-.00	1.04548	.00	.00000	-.00	1.03328	.05	1.06000
5- 1	-.03	1.06000	.00	.00000	-.00	1.04472	.00	.00000	.00	.00000	.01	1.06000
5- 2	-.03	1.06000	.00	.00000	-.00	1.04470	.00	.00000	.00	.00000	.01	1.06000
5- 3	-.03	1.06000	.00	.00000	-.00	1.04468	.00	.00000	.00	.00000	.01	1.06000
5- 4	-.03	1.06000	.00	.00000	-.00	1.04464	.00	.00000	.00	.00000	.02	1.06000

9- 3	-.00	1.06000	.00	1.05322	-.00	1.05484	.00	.00000	.00	.00000	.01	1.06000
9- 4	-.00	1.06000	.00	1.05460	-.00	1.05348	.00	.00000	.00	.00000	.01	1.06000
9- 5	.00	.00000	.00	1.05962	-.00	1.05358	.00	.00000	.00	.00000	.01	1.06000
9- 6	.00	.00000	.00	1.06000	-.00	1.05368	.00	.00000	.00	.00000	.01	1.06000

10- 1	-.05	1.06000	.00	.00000	.00	.00000	.00	.00000	-.00	1.06000	.00	1.05144
10- 2	-.05	1.06000	.00	.00000	.00	.00000	.00	.00000	-.00	1.03484	.00	1.04858
10- 3	-.05	1.06000	.00	.00000	.00	.00000	.00	.00000	-.00	1.03738	.00	1.04596
10- 4	-.05	1.06000	.00	.00000	.00	.00000	.00	.00000	-.00	1.03166	.00	1.05812
10- 5	-.05	1.06000	.00	.00000	.00	.00000	.00	.00000	-.00	1.03760	.00	1.03052
10- 6	-.05	1.06000	.00	.00000	.00	.00000	.00	.00000	-.00	1.04150	.00	1.03000

(ESTIMATED RUN TIME EXCEEDED...ANALYSIS NOT RUN TO COMPLETION)

SUMMARY OF MINIMUM AND MAXIMUM VELOCITIES

COLUMN -BLOCK	MIN	-----UD-----		TIME	MIN	-----WD-----		TIME	MIN	-----THETA D-----			
		TIME	MAX			TIME	MAX			TIME	MAX	TIME	
1- 1	-1.20	1.05212	.00	.000000	.00	.000000	.00	.000000	-1.28	1.04064	.15	1.03066	
1- 2	-1.24	1.05310	.00	.000000	.00	.000000	.00	.000000	-1.35	1.04096	.35	1.03000	
1- 3	-1.30	1.05374	.00	.000000	.00	.000000	.00	.000000	-1.94	1.03000	.37	1.03068	
1- 4	-1.33	1.05628	.00	.000000	.00	.000000	.00	.000000	-2.17	1.03098	.70	1.03018	
1- 5	-1.35	1.04320	.00	.000000	.00	.000000	.00	.000000	-2.00	1.03232	.70	1.03144	
1- 6	-1.43	1.05152	.00	.000000	.00	.000000	.00	.000000	-2.27	1.03362	.76	1.06000	
2- 1	-1.19	1.05188	.00	.000000	-.01	1.05932	.04	1.05502	-.99	1.04050	.00	.000000	
2- 2	-1.21	1.05362	.00	.000000	-.01	1.05924	.04	1.05504	-.83	1.04108	.00	.000000	
2- 3	-1.28	1.05546	.00	.000000	-.01	1.05904	.04	1.05510	-.62	1.03052	.00	.000000	
2- 4	-1.32	1.05670	.00	.000000	-.02	1.05904	.04	1.05536	-.83	1.03862	.04	1.03052	
2- 5	-1.35	1.04446	.00	.000000	-.02	1.05912	.04	1.05558	-.99	1.03886	.11	1.03186	
2- 6	-1.49	1.04924	.00	.000000	-.02	1.05902	.04	1.05566	-1.25	1.03404	.19	1.03222	
3- 1	-1.18	1.05152	.00	.000000	-.03	1.04054	.06	1.03986	-2.38	1.03978	.27	1.04058	
3- 2	-1.18	1.05170	.00	.000000	-.03	1.04064	.06	1.03992	-2.22	1.03988	.12	1.03078	
3- 3	-1.18	1.05202	.00	.000000	-.03	1.04070	.06	1.04000	-1.71	1.03996	.12	1.03358	
3- 4	-1.18	1.05226	.00	.000000	-.03	1.04414	.05	1.04012	-1.10	1.04036	.20	1.03428	
3- 5	-1.21	1.05480	.00	.000000	-.03	1.04414	.04	1.04026	-1.00	1.04098	.35	1.03804	
3- 6	-1.26	1.05570	.00	.000000	-.03	1.04432	.04	1.04886	-.91	1.03000	.53	1.03806	
3- 7	-1.30	1.05766	.00	.000000	-.03	1.04480	.05	1.04068	-.96	1.03068	1.11	1.03842	
3- 8	-1.36	1.05880	.00	.000000	-.04	1.04492	.06	1.04076	-1.01	1.03160	.83	1.03846	
3- 9	-1.40	1.05900	.00	.000000	-.04	1.04500	.05	1.04914	-.86	1.03196	2.00	1.03870	
3-10	-1.43	1.05966	.00	.000000	-.04	1.04504	.06	1.04112	-1.06	1.03862	1.87	1.03894	
3-11	-1.43	1.05892	.00	.000000	-.05	1.05278	.06	1.04118	-1.44	1.03874	1.51	1.03918	
3-12	-1.45	1.04906	.00	.000000	-.05	1.05286	.06	1.04116	-1.67	1.03754	1.65	1.04044	
3-13	-1.52	1.05154	.00	.000000	-.05	1.05292	.05	1.04938	-1.86	1.03762	1.95	1.04116	
3-14	-1.61	1.05198	.00	.000000	-.05	1.04538	.06	1.04166	-1.89	1.03764	2.22	1.04128	
4- 1	-1.19	1.05152	.00	.000000	-.10	1.05238	.03	1.06000	-3.23	1.03996	.90	1.06000	
4- 2	-1.16	1.05194	.00	.000000	-.11	1.05396	.03	1.04892	-3.34	1.05396	.84	1.06000	
4- 3	-1.11	1.05292	.00	.000000	-.06	1.04390	.04	1.04882	-1.21	1.05584	.89	1.05188	
4- 4	-1.05	1.04826	.00	.000000	-.07	1.04382	.05	1.04932	-.37	1.06000	1.14	1.03000	
4- 5	-.99	1.04710	.00	.000000	-.08	1.04374	.05	1.04928	-.38	1.04328	1.40	1.03000	
4- 6	-.95	1.04628	.00	.000000	-.08	1.04362	.05	1.04926	-.09	1.04310	1.44	1.03272	
4- 7	-.69	1.04484	.05	1.03000	-.08	1.04348	.12	1.05928	.00	.000000	3.47	1.05992	
4- 8	-.78	1.04450	.12	1.03000	-.09	1.04324	.08	1.04822	.00	.000000	3.46	1.05536	
4- 9	-.54	1.04442	.15	1.03152	-.10	1.04308	.13	1.04836	-.06	1.03000	3.64	1.04896	
4-10	-.34	1.05968	.17	1.03208	-.12	1.04206	.14	1.04750	-.38	1.03000	4.21	1.04206	
4-11	-.27	1.06000	.20	1.03692	-.15	1.04252	.14	1.04746	-.67	1.03112	5.36	1.04252	
4-12	-.20	1.06000	.44	1.04438	-.14	1.04264	.14	1.04744	-.93	1.03128	5.12	1.04264	
4-13	-.14	1.06000	.75	1.04270	-.14	1.04252	.14	1.04750	-1.05	1.03132	5.13	1.04290	
4-14	-.11	1.03126	1.04	1.04304	-.14	1.04246	.14	1.04752	-1.08	1.03132	5.50	1.04292	
5- 1	-1.20	1.05152	.00	.000000	-.14	1.04004	.12	1.04078	-4.59	1.04004	4.08	1.04078	
5- 2	-1.16	1.05160	.00	.000000	-.08	1.04078	.07	1.04094	-3.57	1.04076	1.38	1.04094	
5- 3	-1.13	1.05168	.00	.000000	-.04	1.04040	.04	1.05974	-2.10	1.04092	1.03	1.06000	
5- 4	-1.08	1.05222	.00	.000000	-.05	1.04326	.05	1.05964	-1.61	1.04112	.98	1.05062	

SUMMARY OF MAXIMUM FORCES

COL-BLK	FORCE	FVL TIME	FORCE	FVC TIME	FORCE	FVR TIME	FORCE	FBL TIME	FORCE	FBR TIME	FORCE	FRI TIME	FORCE	FDS TIME
1- 1	.0	.00000	.0	.00000	.0	.00000	28.0	1.04058	9.4	1.05992	.0	.00000	.0	.00000
1- 2	.0	.00000	.0	.00000	.0	.00000	8.1	1.05376	7.8	1.05988	-1.6	1.05368	-2.1	1.04202
1- 3	.0	.00000	.0	.00000	.0	.00000	14.9	1.03062	5.9	1.05988	-7.7	1.04356	-1.3	1.04398
1- 4	.0	.00000	.0	.00000	.0	.00000	16.6	1.03202	4.1	1.05282	-1.4	1.03030	1.4	1.03008
1- 5	.0	.00000	.0	.00000	.0	.00000	13.7	1.03188	3.2	1.03004	1.8	1.03180	-1.8	1.03982
1- 6	.0	.00000	.0	.00000	.0	.00000	13.4	1.03312	3.2	1.03000	-1.3	1.03292	1.8	1.03364
2- 1	154.4	1.05380	.0	.00000	66.6	1.03000	16.2	1.04030	28.0	1.04058	-14.3	1.04026	-12.3	1.05504
2- 2	122.5	1.05198	.0	.00000	70.1	1.03026	4.6	1.03826	8.1	1.05376	-6.1	1.04168	-9.6	1.04686
2- 3	95.3	1.05220	.0	.00000	61.4	1.03112	13.7	1.03846	14.9	1.03062	-3.8	1.04242	-8.5	1.04726
2- 4	69.5	1.05312	.0	.00000	57.5	1.03074	26.5	1.03856	16.6	1.03202	-3.8	1.03238	-4.3	1.05264
2- 5	46.7	1.03988	.0	.00000	43.0	1.04562	17.3	1.03900	13.7	1.03188	-4.1	1.03364	-3.9	1.05394
2- 6	23.8	1.04042	.0	.00000	29.7	1.03336	7.5	1.04510	13.4	1.03312	3.8	1.04354	-3.2	1.04132
3- 1	75.2	1.05482	.0	.00000	20.8	1.03950	.0	.00000	13.5	1.04028	-8.2	1.03982	-15.7	1.05538
3- 2	58.4	1.04730	.0	.00000	29.2	1.03988	.0	.00000	2.7	1.04034	-2.0	1.03996	-4.1	1.05534
3- 3	52.3	1.04728	.0	.00000	31.4	1.04004	.0	.00000	.6	1.03950	-1.4	1.04230	-4.1	1.04914
3- 4	46.0	1.04726	.0	.00000	31.2	1.04016	.0	.00000	3.9	1.03436	-1.7	1.04214	-4.2	1.04808
3- 5	36.1	1.04706	.0	.00000	28.6	1.03000	.0	.00000	2.4	1.03826	1.4	1.03462	-1.8	1.04860
3- 6	30.1	1.04034	.0	.00000	29.8	1.03000	.0	.00000	9.5	1.03820	1.1	1.04036	-1.8	1.04922
3- 7	26.3	1.04744	.0	.00000	28.6	1.03026	.0	.00000	8.4	1.03852	3.3	1.03832	-1.7	1.03546
3- 8	22.9	1.04960	.0	.00000	25.6	1.03080	.0	.00000	19.8	1.03856	1.4	1.03854	-1.6	1.03594
3- 9	20.0	1.05568	.0	.00000	23.0	1.03348	.0	.00000	10.2	1.03876	3.3	1.03854	1.1	1.03062
3-10	18.9	1.03978	.0	.00000	21.4	1.03382	.0	.00000	13.9	1.03898	-3.8	1.03876	.9	1.03158
3-11	17.9	1.03906	.0	.00000	17.4	1.03392	.0	.00000	3.7	1.03902	-1.6	1.03882	.9	1.03570
3-12	13.8	1.03942	.0	.00000	11.3	1.03386	.0	.00000	4.9	1.04542	-2.6	1.03922	1.3	1.03554
3-13	10.5	1.03954	.0	.00000	7.9	1.03378	.0	.00000	2.8	1.04512	-2.1	1.03938	1.3	1.03544
3-14	3.0	1.04508	.0	.00000	2.3	1.04144	.0	.00000	4.8	1.04508	.9	1.04140	-1.0	1.04118
4- 1	10.7	1.03000	.0	.00000	78.8	1.04468	.0	.00000	.0	.00000	-7.2	1.03974	5.9	1.03128
4- 2	17.7	1.03000	.0	.00000	70.2	1.04458	.0	.00000	.0	.00000	-2.4	1.04012	5.3	1.03324
4- 3	21.6	1.03000	.0	.00000	65.2	1.05652	.0	.00000	.0	.00000	-1.7	1.05406	5.0	1.03362
4- 4	28.5	1.03000	.0	.00000	59.4	1.05682	.0	.00000	.0	.00000	1.2	1.03000	4.3	1.03600
4- 5	33.1	1.03000	.0	.00000	53.2	1.05698	.0	.00000	.0	.00000	1.5	1.03000	3.5	1.03722
4- 6	33.7	1.03016	.0	.00000	46.3	1.05616	.0	.00000	.0	.00000	-1.4	1.04472	3.5	1.04306
4- 7	32.9	1.03350	.0	.00000	41.6	1.04678	.0	.00000	.0	.00000	-1.5	1.04506	2.8	1.04284
4- 8	31.5	1.03352	.0	.00000	37.3	1.04634	.0	.00000	.0	.00000	.9	1.03248	1.7	1.05804
4- 9	27.3	1.03346	.0	.00000	31.8	1.04612	.0	.00000	.0	.00000	-1.2	1.03000	2.2	1.05620
4-10	21.2	1.03330	.0	.00000	24.7	1.04616	.0	.00000	.0	.00000	1.4	1.04534	2.0	1.05810
4-11	14.4	1.03314	.0	.00000	16.3	1.04632	.0	.00000	.0	.00000	1.7	1.04264	-1.8	1.03706
4-12	10.7	1.03312	.0	.00000	11.9	1.04638	.0	.00000	.0	.00000	1.7	1.04264	-1.7	1.04068
4-13	6.2	1.04278	.0	.00000	5.7	1.04638	.0	.00000	.0	.00000	1.3	1.04378	-1.3	1.04268
4-14	2.8	1.04284	.0	.00000	2.2	1.04636	.0	.00000	.0	.00000	.7	1.04304	-8.8	1.04286
5- 1	9.8	1.03000	.0	.00000	78.1	1.04460	4.5	1.04040	.0	.00000	-7.6	1.03968	6.0	1.03242
5- 2	14.7	1.03000	.0	.00000	71.3	1.05658	3.4	1.04052	.0	.00000	-3.2	1.04042	5.6	1.03320
5- 3	19.1	1.03000	.0	.00000	68.2	1.05668	1.7	1.04314	.0	.00000	-3.7	1.04086	5.2	1.03360
5- 4	23.2	1.03000	.0	.00000	65.6	1.05678	2.3	1.04710	.0	.00000	-2.4	1.04134	4.9	1.03538

9- 3	98.0	1.05338	.0	.00000	99.4	1.06000	.0	.00000	.0	.00000	7.1	1.05438	10.9	1.05820
9- 4	82.1	1.05406	.0	.00000	73.0	1.06000	.0	.00000	.0	.00000	-5.8	1.05262	-4.7	1.05412
9- 5	53.6	1.05424	.0	.00000	46.1	1.06000	.0	.00000	.0	.00000	5.2	1.05982	-7.3	1.05626
9- 6	23.3	1.05796	.0	.00000	20.2	1.06000	.0	.00000	.0	.00000	5.2	1.05954	-6.5	1.05778
10- 1	.0	.00000	.0	.00000	.0	.00000	-.6	1.04426	.0	.00000	.0	.00000	.0	.00000
10- 2	.0	.00000	.0	.00000	.0	.00000	-.6	1.04426	.0	.00000	.0	1.03738	.0	1.03978
10- 3	.0	.00000	.0	.00000	.0	.00000	-.6	1.04434	.0	.00000	.0	1.04100	.0	1.04048
10- 4	.0	.00000	.0	.00000	.0	.00000	-.6	1.04448	.0	.00000	.0	1.04518	.0	1.03894
10- 5	.0	.00000	.0	.00000	.0	.00000	-.6	1.04444	.0	.00000	.0	1.04060	.0	1.04246
10- 6	.0	.00000	.0	.00000	.0	.00000	-.6	1.04432	.0	.00000	.0	1.04402	.0	1.03096

(ESTIMATED RUN TIME EXCEEDED...ANALYSIS NOT RUN TO COMPLETION)

SUMMARY OF MAXIMUM SPRING PACK FORCES

SP PK	LEFT SIDE		RIGHT SIDE	
	FORCE	TIME	FORCE	TIME
2	-.57	1.044260	7.85	1.059880
3	-.58	1.044340	5.88	1.059880
4	-.59	1.044480	4.08	1.052820
5	-.59	1.044440	3.22	1.030040
6	-.57	1.044320	3.21	1.030000
7	-.57	1.045020	3.32	1.030000

SUMMARY OF MAXIMUM CORE SUPPORT POST LOADS

I(ELEMENT)	FVL(I)	TIME	FVR(I)	TIME	FHL(I)	TIME	FHR(I)	TIME
1	175.1	1.05308	67.3	1.03000	.0	.00000	.0	.00000
2	108.0	1.04464	137.2	1.03520	.0	.00000	.0	.00000
3	110.3	1.03188	174.3	1.05904	.0	.00000	.0	.00000
4	82.5	1.05136	159.1	1.05666	.0	.00000	.0	.00000

SUMMARY OF MAXIMUM CORE FLOOR ELEMENT LATERAL IMPACT LOADS

I(ELEMENT)	FBRU(I)	TIME	FBRD(I)	TIME	FBLU(I)	TIME	FBLD(I)	TIME
1	9.8	1.05982	.0	.00000	42.7	1.04002	3.9	1.04000
2	42.7	1.04002	3.9	1.04000	40.8	1.03966	43.9	1.03960
3	40.8	1.03966	43.9	1.03960	34.8	1.05160	48.5	1.05156
4	34.8	1.05160	48.5	1.05156	.0	.00000	.0	.00000

MAXIMUM RELATIVE DISPLACEMENT BETWEEN FLOOR ELEMENTS AND PCRV

I(ELEMENT)	UREL(I)	TIME	WREL(I)	TIME
1	.0124	1.06000	-.0001	1.03420
2	.0232	1.06000	-.0002	1.04480
3	.0342	1.06000	-.0002	1.05912
4	.0451	1.05990	-.0001	1.05492

ESTIMATED RUN TIME EXCEEDED...ANALYSIS NOT RUN TO COMPLETION

-1.273981016-02	-1.212755044-02	3.162559727-02	1.013775729-01	1.022046888-01
1.336286124-02	1.219329684-02	1.082168706-02	9.326442378-03	1.029140514-02
1.547860703-02	1.704294584-02	1.728512184-02	3.047447023-02	4.164905753-02
4.069117550-02	6.719531771-02	1.110078348-01	1.095821485-01	-1.157999560+00
-1.040652230+00	-8.343245536-01	-4.828238674-01	-8.137231930-03	4.818026572-01
5.839663139-02	5.795290012-02	5.554747069-02	5.200881651-02	4.836895317-02
4.604599858-02	2.044645231-02	2.138113393-02	2.423201711-02	2.769879042-02
3.014657414-02	3.101734142-02	-1.340941280+00	-1.341850400+00	-1.343090475+00
-1.344812602+00	-1.346001059+00	-1.345986560+00	0.000000000	0.000000000
0.000000000	0.000000000	0.000000000	0.000000000	-2.818605344-05
-1.176829574-04	-8.494722078-05	-2.177762253-04	2.458928066-05	-3.452742976-05
-1.178472042+00	-1.183502004+00	-1.188581377+00	-1.255125657+00	-5.680468525-03
3.071692598-03	9.321964951-03	5.734664109-02	-1.451744847-04	3.364145196-04
-5.946079837-04	2.128019137-02	-5.415071826-02	-1.254148439+00	0.000000000
0.000000000	1.866812240+01			

***EXIT LOC**031571

DFIN

CR

PLOT REQUEST BQ

DISC HAS 6 PLOT FRAMES

GENERAL ATOMIC CSD COMPUTER CENTER
1110 EXEC LEVEL 33R2.7-3507

*** RUN NO. 12616 ***

NAME **ROBISO**

WORK ORDER NO. 3273215

RCN 169 ORG 436

BOX NO. 27

EXTENSION **2430 **

START 14:12:37 30JAN78

TERM. 14:52:52 30JAN78

SUBMITTED 1411

REQUESTED FACILITIES

	SUP TIME	PAGES	CARDS-OUT	CARDS-IN	TAPES	PACKS
ESTIMATED	360-SEC	200	1000	-	-	-
ACTUAL	352-SEC	182	137	521	0	0

%COST	7.28	1.10	4.17	0.00	0.00	0.00	12.55
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MEMORY CATEGORIES

MEMORY SIZE	0-19K	20-39K	40-59K	60-79K	80-99K	100-149K	150K-UP
TIME (SEC)	12	93	0	247	0	0	0

%COST	0.73	6.72	0.00	23.33	0.00	0.00	30.78
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DRUM USAGE	5.6	TRACK HRS.	0.73
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TOTAL COST \$ 44.06

COMPUTER TASK STATISTICS

	USER	TOTAL
ACCESSES(X10)	TAPE 0 DRUM/DISC 14	TAPE 0 DRUM/DISC 242
WORDS TRANSFERRED(X1000)	TAPE 0 DRUM/DISC 121	TAPE 0 DRUM/DISC 1708

TASK	REFS.	MEMORY	SUPS(SEC)	TAPE UNITS	DISC PACKS	DRUM/DISC TRACKS
CNTRL CARDS	-	1024	2.35	-	-	-
FURPUR	2	11776	8.60	0.00	0.00	51
FOR	15	36352	70.15	0.00	0.00	63
MAP	1	34704	22.59	0.00	0.00	84
PLTREQ	1	5120	1.52	0.00	0.00	0
A	1	65536	246.97	0.00	0.00	54

COL-B	THETA	THETAD	U	UD	M	MD	FVL	FVC	FVR	FBL	FBR	FRI	FDS
1- 1	-.01	.36	-.06	-1.59	.00	.00	.0	.0	.0	15.2	7.8	.0	.0
1- 2	-.01	.39	-.06	-1.52	.00	.00	.0	.0	.0	5.2	5.9	-.3	-.2
1- 3	-.01	.51	-.06	-1.43	.00	.00	.0	.0	.0	4.4	3.9	-.3	-.3
1- 4	-.01	.50	-.06	-1.32	.00	.00	.0	.0	.0	2.8	2.0	-.2	-.3
1- 5	-.01	.57	-.07	-1.20	.00	.00	.0	.0	.0	1.9	.3	-.6	-.9
1- 6	-.01	-.27	-.07	-1.17	.00	.00	.0	.0	.0	.0	-1.0	-.1	.1
2- 1	-.01	.36	-.06	-1.59	-.00	-.01	150.3	.0	12.1	10.8	15.2	2.0	-11.6
2- 2	-.01	.40	-.06	-1.52	-.00	-.01	125.4	.0	22.9	3.5	5.2	1.8	-9.0
2- 3	-.01	.45	-.06	-1.42	-.00	-.01	97.8	.0	36.6	3.2	4.4	-1.1	-7.1
2- 4	-.01	.48	-.06	-1.32	-.00	-.00	66.9	.0	39.8	.0	2.8	-.9	-6.0
2- 5	-.01	.50	-.07	-1.22	-.00	-.00	39.4	.0	32.5	.0	1.9	-1.2	-4.4
2- 6	-.01	.50	-.07	-1.11	-.00	-.00	17.2	.0	15.3	.0	.0	-1.4	-3.0
3- 1	-.00	.13	-.05	-1.62	-.00	.01	72.0	.0	.0	.0	10.8	1.2	-14.2
3- 2	-.01	.24	-.05	-1.60	-.00	.01	58.9	.0	14.1	.0	2.1	-.4	-4.1
3- 3	-.01	.32	-.05	-1.59	-.00	.01	52.4	.0	16.4	.0	.0	.4	-3.6
3- 4	-.01	.43	-.05	-1.56	-.00	.01	47.8	.0	19.1	.0	3.5	.3	-3.8
3- 5	-.01	.39	-.05	-1.51	-.00	.01	37.3	.0	20.8	.0	.0	.2	-1.0
3- 6	-.01	.25	-.05	-1.47	-.00	.01	32.3	.0	19.8	.0	3.2	.2	-1.3
3- 7	-.01	.29	-.05	-1.43	-.00	-.00	28.6	.0	18.4	.0	.0	.9	-1.1
3- 8	-.01	.40	-.05	-1.39	-.00	-.01	27.1	.0	17.8	.0	.0	.8	-1.0
3- 9	-.01	.39	-.05	-1.35	-.00	-.01	24.1	.0	16.7	.0	.0	.5	-.8
3-10	-.01	.39	-.05	-1.31	-.00	-.01	20.1	.0	14.6	.0	.0	-.8	-1.1
3-11	-.01	.47	-.06	-1.27	-.00	-.01	14.9	.0	11.4	.0	.0	-1.4	-1.2
3-12	-.01	.43	-.06	-1.24	-.00	-.01	8.9	.0	8.9	.0	.0	-1.9	-.9
3-13	-.01	.40	-.06	-1.21	-.00	-.01	5.6	.0	9.1	.0	.0	-2.4	-.5
3-14	-.00	4.44	-.06	-1.07	-.00	.09	1.5	.0	9.7	13.4	.0	1.7	.9
4- 1	.02	1.76	-.04	-1.55	.00	.05	.0	.0	75.2	.0	.0	1.3	2.8
4- 2	.02	1.79	-.04	-1.43	.00	.05	3.2	.0	68.5	.0	.0	1.1	2.2
4- 3	.03	1.81	-.04	-1.28	-.00	.04	4.3	.0	64.6	.0	.0	1.3	1.9
4- 4	.03	1.79	-.04	-1.08	-.00	.04	5.0	.0	56.6	.0	.0	1.8	1.4
4- 5	.03	2.06	-.03	-.87	-.00	.05	5.7	.0	51.0	.0	.0	-.8	1.4
4- 6	.05	2.48	-.03	-.62	-.00	.05	.1	.0	46.5	.0	.0	-1.1	1.4
4- 7	.05	.17	-.02	-.48	-.00	-.01	.0	.0	40.0	.0	.0	1.1	1.9
4- 8	.05	-.43	-.02	-.50	-.00	-.02	5.3	.0	32.0	.0	.0	1.2	2.5
4- 9	.05	-.33	-.01	-.54	-.00	-.02	6.2	.0	26.0	.0	.0	-.8	2.3
4-10	.06	-.52	-.01	-.57	-.00	-.01	7.9	.0	19.2	.0	.0	-.9	2.0
4-11	.06	-.63	-.00	-.62	-.00	-.00	7.7	.0	12.1	.0	.0	1.7	1.6
4-12	.06	-.72	.00	-.67	-.00	-.00	7.6	.0	8.7	.0	.0	2.2	1.4
4-13	.06	-.82	.01	-.73	-.00	-.00	9.9	.0	4.3	.0	.0	2.2	.9
4-14	.04	-3.21	.01	-.84	.00	.05	8.9	.0	1.9	.0	13.4	-1.7	-.8
5- 1	.02	1.82	-.04	-1.57	.00	.04	.0	.0	75.4	.0	.0	-.6	3.1
5- 2	.03	1.83	-.04	-1.47	.00	.04	2.1	.0	72.0	.8	.0	.6	2.6
5- 3	.03	1.75	-.04	-1.37	.00	.04	3.6	.0	68.7	.0	.0	.6	2.1
5- 4	.03	1.59	-.04	-1.23	.00	.04	4.5	.0	65.7	.0	.0	-.4	1.7
5- 5	.04	4.48	-.04	-.90	.00	.11	4.1	.0	60.3	.0	.0	.4	1.3
5- 6	.04	.27	-.03	-.64	-.00	.02	2.1	.0	53.2	.0	.0	1.6	1.8
5- 7	.04	.50	-.03	-.59	-.00	.02	7.6	.0	45.4	.0	.0	1.4	2.2
5- 8	.05	.74	-.02	-.50	-.00	.02	6.7	.0	39.3	.0	.0	-2.0	2.1
5- 9	.05	.36	-.02	-.44	-.00	.03	6.9	.0	33.8	.0	.0	-1.7	2.3
5-10	.05	-.45	-.01	-.47	-.00	.04	6.2	.0	26.2	.0	.0	-2.0	2.2
5-11	.05	-.52	-.01	-.54	-.00	.05	6.6	.0	18.4	.0	.0	-1.5	1.9

5-12	.05	-.16	-.00	-.56	-.00	.07	6.6	.0	12.0	.0	.0	-1.0	1.4
5-13	.05	.14	.00	-.55	-.00	.08	5.5	.0	8.6	.0	.0	-.9	1.2
5-14	.05	.19	.01	-.54	-.00	.08	1.7	.0	2.2	.0	.0	.5	.5
6- 1	.02	.98	-.03	-1.58	-.00	.02	.0	.0	77.5	.0	.0	1.1	3.8
6- 2	.02	.99	-.03	-1.52	-.00	.02	3.1	.0	71.2	.0	.8	-.9	3.3
6- 3	.02	1.00	-.03	-1.46	-.00	.02	5.5	.0	66.1	.0	.0	-.8	3.0
6- 4	.02	1.02	-.03	-1.37	-.00	.02	7.3	.0	61.5	.0	.0	-.7	2.6
6- 5	.03	1.14	-.03	-1.25	-.00	.02	9.0	.0	53.9	.0	.0	-.6	2.3
6- 6	.03	1.31	-.02	-1.11	-.00	.01	9.2	.0	48.3	.0	.0	-1.1	2.2
6- 7	.03	1.46	-.02	-.97	-.00	.01	9.2	.0	43.0	.0	.0	-1.4	2.0
6- 8	.03	1.55	-.02	-.81	-.00	.01	9.3	.0	38.6	.0	.0	-1.4	1.8
6- 9	.04	1.59	-.01	-.63	-.00	.01	8.5	.0	35.1	.0	.0	-1.5	1.6
6-10	.05	3.15	-.01	-.37	-.00	.05	7.2	.0	30.7	.0	.0	-1.4	1.3
6-11	.06	1.01	-.00	-.14	-.00	-.01	2.3	.0	24.4	.0	.0	1.1	1.7
6-12	.06	1.16	.00	-.05	-.00	-.01	5.8	.0	16.9	.0	.0	1.7	1.8
6-13	.06	1.32	.01	.05	-.00	-.01	6.6	.0	12.6	.0	.0	-1.4	1.7
6-14	.06	1.36	.01	.16	-.00	-.01	2.2	.0	3.6	.0	.0	.8	2.4
7- 1	.02	1.00	-.03	-1.58	.00	.02	.0	.0	75.4	.0	.0	1.1	4.2
7- 2	.02	1.07	-.03	-1.51	-.00	.02	4.8	.0	67.2	.0	.0	-.9	3.5
7- 3	.02	1.14	-.03	-1.42	-.00	.02	7.1	.0	63.6	.0	.0	-.7	3.1
7- 4	.03	1.22	-.03	-1.29	-.00	.02	9.9	.0	56.9	.0	.0	-.8	2.7
7- 5	.03	1.35	-.02	-1.15	-.00	.02	10.5	.0	50.8	.0	.0	-1.0	2.5
7- 6	.03	1.51	-.02	-.99	-.00	.02	10.9	.0	44.9	.0	.0	-1.5	2.2
7- 7	.04	1.66	-.02	-.82	-.00	.01	11.4	.0	39.3	.0	.0	-1.5	1.8
7- 8	.04	1.81	-.01	-.63	-.00	.01	11.1	.0	33.8	.0	.0	-1.2	1.4
7- 9	.05	2.76	-.01	-.38	-.00	.03	8.8	.0	28.9	.0	.0	-1.2	1.2
7-10	.06	1.40	-.00	-.15	-.00	-.01	4.9	.0	24.1	.0	.0	1.3	1.8
7-11	.06	1.28	.00	-.04	-.00	-.01	6.0	.0	17.9	.0	.0	1.7	1.9
7-12	.06	1.16	.01	.05	-.00	-.01	6.7	.0	14.5	.0	.0	1.7	1.7
7-13	.06	1.10	.01	.13	-.00	-.01	4.8	.0	8.7	.0	.0	1.6	1.6
7-14	.06	1.09	.01	.19	-.00	-.01	2.4	.0	3.7	.0	.0	-.9	2.3
8- 1	.02	1.50	-.03	-1.56	.00	.04	.0	.0	75.7	6.4	.0	-1.9	7.8
8- 2	.02	1.53	-.03	-1.48	.00	.04	7.2	.0	67.5	.8	.0	-1.3	4.1
8- 3	.02	1.50	-.03	-1.38	.00	.04	8.5	.0	62.7	.0	.0	-1.2	3.7
8- 4	.03	1.44	-.03	-1.25	-.00	.04	11.1	.0	60.3	2.5	.0	-.9	3.3
8- 5	.03	1.17	-.03	-1.12	-.00	.05	14.2	.0	56.4	.0	.0	-.7	2.4
8- 6	.03	1.01	-.02	-1.01	-.00	.05	15.9	.0	51.9	.0	.0	-.6	1.7
8- 7	.04	1.27	-.02	-.88	-.00	.05	16.5	.0	46.4	.0	.0	-.9	1.3
8- 8	.04	1.68	-.01	-.73	-.00	.04	14.9	.0	40.0	.0	.0	-.9	1.4
8- 9	.04	3.23	-.01	-.47	-.00	.06	10.3	.0	33.9	.0	.0	-1.4	1.4
8-10	.05	1.05	-.00	-.20	-.00	.01	4.0	.0	27.3	.0	.0	1.7	1.7
8-11	.05	1.72	.00	-.02	-.00	.03	7.8	.0	20.0	.0	.0	1.6	1.9
8-12	.05	.77	.00	.05	-.00	.04	7.3	.0	13.2	.0	.0	-2.2	2.0
8-13	.05	-.22	.01	.02	-.00	.04	8.2	.0	10.5	.0	.0	-1.5	1.7
8-14	.05	-.31	.01	.01	-.00	.04	2.8	.0	3.4	.0	.0	-1.0	2.1
9- 1	.02	1.47	-.02	-1.45	.00	.07	12.0	.0	157.6	.0	7.0	-3.5	12.3
9- 2	.02	1.41	-.02	-1.14	.00	.07	20.1	.0	127.7	.0	2.5	-5.4	12.7
9- 3	.02	1.42	-.01	-.83	.00	.07	29.4	.0	104.8	.0	.0	-2.8	8.8
9- 4	.02	1.38	-.01	-.56	.00	.07	30.4	.0	80.3	.0	.0	1.6	6.5
9- 5	.02	1.35	-.00	-.30	.00	.07	23.9	.0	50.6	.0	.0	5.1	7.2
9- 6	.02	1.34	.00	-.05	.00	.07	13.1	.0	21.0	.0	.0	4.9	5.0
10- 1	-.00	-.00	-.07	-1.16	.00	.00	.0	.0	.0	.6	.0	.0	.0
10- 2	-.00	.01	-.07	-1.16	.00	.00	.0	.0	.0	.6	.0	-.0	-.0
10- 3	-.00	-.00	-.07	-1.16	.00	.00	.0	.0	.0	.6	.0	-.0	-.0
10- 4	-.00	.00	-.07	-1.16	.00	.00	.0	.0	.0	.7	.0	-.0	-.0
10- 5	-.00	-.02	-.07	-1.16	.00	.00	.0	.0	.0	.7	.0	-.0	-.0
10- 6	.00	.00	-.07	-1.16	.00	.00	.0	.0	.0	.7	.0	-.0	-.0

PCRV -0.07 -1.14 .00 .00

CORE SUPPORT FLOOR.....		SUPPORT POST LOADS.....				SUPPORT ELEMENT LATERAL IMPACT LOADS,RELATIVE U AND W.....					
I(ELEMENT)	FVL(I)	FVR(I)	FHL(I)	FHR(I)	FBRU(I)	FBRL(I)	FBLU(I)	FBLL(I)	UREL(I)	WREL(I)	
1	170.8	.0	.0	.0	9.8	.0	19.4	.0	.0124	.0001	
2	100.8	129.9	.0	.0	19.4	.0	23.3	3.4	.0232	-.0002	
3	71.5	169.5	.0	.0	23.3	3.4	10.7	.0	.0342	-.0002	
4	.0	.0	.0	.0	10.7	.0	.0	.0	.0451	.0006	

POSITION COORDINATES OF BOUNDARY CONTAINER

XMAX= 31.619, XMIN= -2.066, YMAX= 82.158, YMIN= .000

DELTA DISPLMNTS OF 4 CORNERS (DISPL) AT LL= 3500

.00	.00	.00	.00	.01	.01	.02	.02	.02	.02	.01	.01	.01	.01	-.06	-.06
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00
.00	.00	.00	.00												

.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	-.06	-.06
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00
.00	.00	.00	.00												
.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	-.06	-.06
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00
.00	.00	.00	.00												

.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	.00	.00	.00	.00	-.06	-.06
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00
.00	.00	.00	.00												
.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	.00	.00	.00	.00	-.06	-.06
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00
.00	.00	.00	.00												

COL-B	THETA	THETAD	U	UD	W	WD	FVL	FVC	FVR	FBL	FBR	FRI	FDS
1- 1	-.00	.42	-.07	-1.66	.00	.00	.0	.0	.0	11.6	5.8	.0	.0
1- 2	-.00	.66	-.07	-1.55	.00	.00	.0	.0	.0	4.0	4.4	-.3	-.3
1- 3	-.00	.77	-.08	-1.40	.00	.00	.0	.0	.0	2.7	2.9	.3	-.3
1- 4	-.00	.77	-.08	-1.24	.00	.00	.0	.0	.0	1.6	1.2	.3	-.6
1- 5	-.00	.80	-.08	-1.07	.00	.00	.0	.0	.0	3.1	-.4	-.5	-.8
1- 6	-.00	.18	-.08	-.97	.00	.00	.0	.0	.0	.7	-1.0	-1.1	-.3
2- 1	-.00	.42	-.07	-1.66	-.00	-.00	147.6	.0	37.1	8.8	11.6	-.6	-7.0
2- 2	-.00	.53	-.07	-1.54	-.00	-.00	121.0	.0	40.1	3.2	4.0	-1.3	-7.4
2- 3	-.00	.60	-.08	-1.39	-.00	-.01	93.4	.0	38.6	2.7	2.7	1.7	-7.2
2- 4	-.00	.63	-.08	-1.23	-.00	-.01	63.5	.0	33.5	.0	1.6	1.2	-6.0
2- 5	-.00	.64	-.08	-1.08	-.00	-.01	37.7	.0	26.9	.0	3.1	1.0	-4.5
2- 6	-.00	.64	-.08	-.95	-.00	-.01	16.4	.0	14.5	.0	.7	1.1	-3.0
3- 1	-.00	.08	-.06	-1.68	-.00	-.00	70.2	.0	11.2	.0	7.4	1.1	-10.9
3- 2	-.00	.12	-.06	-1.68	-.00	-.00	56.1	.0	17.7	.0	1.4	.7	-4.1
3- 3	-.00	.17	-.06	-1.67	-.00	-.00	50.6	.0	18.2	.0	.0	.6	-3.0
3- 4	-.00	.28	-.06	-1.65	-.00	-.01	45.5	.0	18.7	.0	3.2	.6	-3.1
3- 5	-.01	.57	-.06	-1.62	-.00	-.00	38.4	.0	19.7	.0	.0	-.7	-1.8
3- 6	-.01	.81	-.06	-1.55	-.00	-.00	33.2	.0	21.2	.0	2.7	-.5	-1.8
3- 7	-.01	1.05	-.07	-1.45	-.00	.00	29.0	.0	22.6	.0	.0	-.7	-1.7
3- 8	-.01	1.08	-.07	-1.33	-.00	.00	27.3	.0	22.9	.0	.0	-.5	-1.4
3- 9	-.00	.90	-.07	-1.20	-.00	.00	23.6	.0	21.7	.0	.0	.8	-1.1
3-10	-.00	.69	-.07	-1.10	-.00	.00	18.0	.0	19.4	.0	.0	1.0	-1.2
3-11	-.00	.60	-.07	-1.02	-.00	.00	11.7	.0	16.2	.0	.0	1.0	-1.3
3-12	-.00	.62	-.07	-.98	-.00	.00	5.7	.0	11.5	.0	.0	1.2	-.9
3-13	-.00	.64	-.07	-.94	-.00	.00	5.0	.0	8.4	.0	.0	1.7	1.0
3-14	-.00	.65	-.07	-.89	-.00	.00	6.5	.0	2.9	1.5	.0	-1.7	1.1
4- 1	.04	2.57	-.06	-1.52	.00	.07	.0	.0	73.9	.0	.0	4.2	3.1
4- 2	.05	2.48	-.06	-1.29	.00	.08	8.5	.0	67.5	.0	.0	3.1	3.3
4- 3	.05	2.21	-.05	-1.07	.00	.08	12.1	.0	64.9	.0	.0	2.8	3.3
4- 4	.05	1.09	-.05	-.91	.00	.08	17.3	.0	58.2	.0	.0	2.4	4.0
4- 5	.05	-.02	-.04	-.88	.00	.09	19.9	.0	51.5	.0	.0	2.2	3.7
4- 6	.05	.16	-.04	-.87	.00	.09	23.9	.0	44.9	.0	.0	2.0	3.2
4- 7	.05	.31	-.03	-.84	.00	.08	26.6	.0	37.5	.0	.0	-1.8	2.9
4- 8	.05	-.04	-.03	-.85	.00	.07	25.0	.0	31.4	.0	.0	-1.5	2.7
4- 9	.05	-.25	-.02	-.88	.00	.06	20.8	.0	24.0	.0	.0	-1.5	2.3
4-10	.05	-.22	-.01	-.92	.00	.06	16.2	.0	15.6	.0	.0	-1.4	2.1
4-11	.05	-.20	-.01	-.94	.00	.06	13.2	.0	8.8	.0	.0	-.9	1.6
4-12	.05	-.20	-.01	-.96	.00	.06	11.2	.0	5.6	.0	.0	-1.3	1.2
4-13	.05	-.21	-.00	-.97	.00	.07	7.0	.0	4.5	.0	.0	-2.0	-.9
4-14	.05	-.22	-.00	-.98	.00	.07	3.7	.0	4.9	.0	1.5	.9	-1.1
5- 1	.05	1.61	-.06	-1.66	.00	.04	.0	.0	75.5	.0	.0	2.8	4.8
5- 2	.05	1.56	-.06	-1.57	.00	.04	5.6	.0	72.1	.0	.0	2.1	4.8
5- 3	.05	1.49	-.06	-1.48	.00	.05	8.7	.0	68.9	.0	.0	1.7	4.7
5- 4	.05	1.43	-.05	-1.36	.00	.05	12.8	.0	66.3	.0	.0	1.3	4.4
5- 5	.05	1.41	-.04	-1.19	.00	.06	19.6	.0	59.2	.0	.0	1.6	3.5
5- 6	.05	1.32	-.04	-1.03	.00	.06	24.2	.0	51.8	.0	.0	1.3	2.5
5- 7	.05	1.17	-.03	-.89	.00	.07	26.1	.0	43.7	.0	.0	-1.4	2.3
5- 8	.05	.98	-.03	-.78	.00	.07	25.1	.0	35.4	.0	.0	.9	1.8
5- 9	.05	.71	-.02	-.70	.00	.07	21.7	.0	26.9	.0	.0	-.8	1.5
5-10	.05	.49	-.02	-.65	.00	.07	16.7	.0	22.0	.0	.0	-1.0	1.6
5-11	.05	.61	-.01	-.61	.00	.07	11.9	.0	17.0	.0	.0	-1.1	1.7

PCRV -.08 -.98 .00 .00

CORE	SUPPORT FLOOR I (ELEMENT)	SUPPORT POST LOADS FVL(I)	FVR(I)	FHL(I)	FHR(I)	SUPPORT ELEMENT LATERAL IMPACT LOADS, RELATIVE U AND V..... FBRU(I)	FBRL(I)	FBLU(I)	FBLL(I)	UREL(I)	WREL(I)
	1	167.2	34.1	.0	.0	7.1	.0	13.0	.0	.0100	-.0001
	2	100.7	134.5	.0	.0	13.0	.0	18.8	1.7	.0208	-.0002
	3	72.9	166.0	.0	.0	18.8	1.7	8.5	.0	.0318	-.0002
	4	.0	.0	.0	.0	8.5	.0	.0	.0	.0421	.0011

POSITION COORDINATES OF BOUNDARY CONTAINER

XMAX= 31.608, XMIN= -2.077, YMAX= 82.158, YMIN= .000

DELTA DISPLMNTS OF 4 CORNERS (DISPL) AT LL= 4000

.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	.00	.00	-.00	-.00	-.07	-.07
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00
.00	.00	.00	.00												
.00	.00	.00	.00												

.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	.00	.00	-.00	-.00	-.07	-.07
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00
.00	.00	.00	.00												
.00	.00	.00	.00												

.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	-.00	-.00	-.00	-.00	-.07	-.07
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00
.00	.00	.00	.00												
.00	.00	.00	.00												

.00	.00	.00	.00	.00	.00	.01	.01	.00	.00	-.01	-.01	-.01	-.01	-.07	-.07
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00
.00	.00	.00	.00												
.00	.00	.00	.00												

.00	.00	.00	.00	.00	.00	.01	.01	.00	.00	-.01	-.01	-.01	-.01	-.07	-.07
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00
.00	.00	.00	.00												
.00	.00	.00	.00												

MCOCO SIMULATION-1/5 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1 CARD 1
 ----- TIME = 1.09000 INTERVAL = 4500 -----

- 4 -

COL-B	THETA	THETAD	U	UD	W	WD	FVL	FVC	FVR	FBL	FBR	FRI	FOS
1- 1	.00	.09	-.09	-1.12	.00	.00	.0	.0	.0	4.6	-2.6	.0	.0
1- 2	.00	.40	-.09	-1.07	.00	.00	.0	.0	.0	1.2	-2.3	.4	-.9
1- 3	.00	.42	-.09	-.98	.00	.00	.0	.0	.0	.7	-1.9	.2	-.4
1- 4	.00	.03	-.09	-.93	.00	.00	.0	.0	.0	.3	-1.4	.2	-.3
1- 5	.00	.34	-.09	-.89	.00	.00	.0	.0	.0	.0	-.8	.4	-.6
1- 6	.00	.40	-.09	-.81	.00	.00	.0	.0	.0	.0	-.7	.1	-.1
2- 1	.00	.12	-.09	-1.28	-.00	.01	110.2	.0	87.0	5.1	4.6	1.0	-6.7
2- 2	.00	.13	-.09	-1.23	-.00	.01	82.1	.0	79.5	.0	1.2	.9	-6.5
2- 3	.00	.14	-.09	-1.19	-.00	.01	58.8	.0	67.1	.0	.7	1.4	-4.7
2- 4	.00	.14	-.09	-1.15	-.00	.01	40.7	.0	51.3	.0	.3	1.4	-3.0
2- 5	.00	.14	-.09	-1.12	-.00	.01	27.0	.0	33.5	.0	.0	.7	2.0
2- 6	.00	.14	-.09	-1.09	-.00	.01	13.6	.0	15.6	.0	.0	.5	1.5
3- 1	.00	.06	-.08	-1.28	-.00	.00	61.1	.0	26.0	.0	5.1	1.2	-7.9
3- 2	-.00	.08	-.08	-1.27	-.00	.00	51.2	.0	27.4	.0	.0	-.8	-3.4
3- 3	-.00	.09	-.08	-1.25	-.00	.00	47.1	.0	27.7	.0	.0	-.7	-3.0
3- 4	-.00	.08	-.08	-1.24	-.00	.00	43.1	.0	27.8	.0	.0	-.5	-2.7
3- 5	-.00	.07	-.08	-1.23	-.00	.00	35.1	.0	27.7	.0	.0	-.4	-2.1
3- 6	-.00	.10	-.08	-1.22	-.00	.00	27.1	.0	26.7	.0	.0	.5	-1.9
3- 7	-.00	.20	-.08	-1.21	-.00	.00	19.4	.0	25.3	.0	.0	.7	-1.7
3- 8	.00	.35	-.08	-1.19	-.00	.00	15.4	.0	23.9	.0	.0	.6	-1.3
3- 9	.00	.52	-.08	-1.15	-.00	.00	13.0	.0	22.1	.0	.0	.8	-.6
3-10	.00	.67	-.08	-1.09	-.00	.00	10.7	.0	19.5	.0	.0	.7	.4
3-11	.00	.79	-.08	-1.00	-.00	.00	8.3	.0	15.8	.0	.0	-.4	.7
3-12	.00	.84	-.08	-.93	-.00	.00	5.7	.0	11.2	.0	.0	-.5	.8
3-13	.00	.86	-.08	-.85	-.00	.01	4.3	.0	8.5	.0	.0	-.6	.7
3-14	.00	.92	-.08	-.77	-.00	.01	1.3	.0	2.7	1.7	.0	.5	1.0
4- 1	.05	-.94	-.08	-1.38	.00	-.02	.0	.0	73.7	.0	.0	3.1	5.7
4- 2	.05	-.90	-.07	-1.47	.00	-.01	8.5	.0	65.7	.0	.0	2.2	5.8
4- 3	.05	-.77	-.07	-1.56	.00	-.01	13.9	.0	60.4	.0	.0	1.5	5.5
4- 4	.06	-.38	-.06	-1.63	.00	-.01	22.7	.0	49.1	.0	.0	-.7	4.7
4- 5	.06	.15	-.05	-1.64	.00	-.01	28.3	.0	37.1	.0	.0	-1.4	3.8
4- 6	.06	.71	-.05	-1.59	.00	-.01	30.9	.0	25.6	.0	.0	-1.3	3.0
4- 7	.06	1.18	-.04	-1.47	.00	-.00	31.0	.0	15.6	.0	.0	-1.1	1.9
4- 8	.06	1.50	-.04	-1.30	.00	-.00	29.5	.0	9.1	.0	.0	-.9	-.8
4- 9	.06	1.64	-.03	-1.12	.00	-.00	26.3	.0	6.4	.0	.0	-.7	-1.3
4-10	.05	1.94	-.02	-.92	.00	-.01	20.8	.0	5.4	.0	.0	-.6	-1.4
4-11	.05	.34	-.02	-.80	.00	.03	14.3	.0	5.0	.0	.0	-.3	-1.5
4-12	.05	.35	-.02	-.78	.00	.03	11.0	.0	4.4	.0	.0	-.5	-1.4
4-13	.05	.36	-.01	-.76	.00	.03	6.0	.0	2.9	.0	.0	-.8	-1.3
4-14	.05	.08	-.01	-.75	.00	.04	2.8	.0	1.5	.0	1.7	-.6	-1.2
5- 1	.05	-.48	-.08	-1.34	.00	-.01	.0	.0	71.8	.0	.0	-1.0	4.8
5- 2	.05	-.47	-.07	-1.38	.00	-.01	4.0	.0	67.9	.0	.0	-.9	4.8
5- 3	.05	-.47	-.07	-1.42	.00	-.00	8.0	.0	63.9	.0	.0	-.7	4.7
5- 4	.06	-.41	-.07	-1.48	.00	-.00	11.9	.0	59.8	.0	.0	-.7	4.5
5- 5	.06	-.15	-.06	-1.52	.00	-.00	19.0	.0	51.6	.0	.0	-.6	3.9
5- 6	.06	.26	-.05	-1.53	.00	.00	24.0	.0	42.8	.0	.0	-.4	3.2
5- 7	.06	.80	-.05	-1.47	.00	.00	26.1	.0	34.1	.0	.0	.4	2.6
5- 8	.07	1.38	-.04	-1.35	.00	.00	25.5	.0	26.0	.0	.0	.5	1.8
5- 9	.07	1.91	-.03	-1.16	.00	.00	22.5	.0	19.0	.0	.0	.6	1.0
5-10	.07	2.32	-.02	-.92	.00	.00	20.0	.0	13.3	.0	.0	-.8	-1.1
5-11	.07	2.58	-.02	-.64	.00	.00	15.6	.0	8.9	.0	.0	-.9	-1.1

PCRV -.09 -.79 .00 -.00

CORE SUPPORT FLOOR.....SUPPORT POST LOADS.....SUPPORT ELEMENT LATERAL IMPACT LOADS,RELATIVE U AND W.....

I (ELEMENT)	FVL(I)	FVR(I)	FHL(I)	FHR(I)	FBRU(I)	FBRL(I)	FBLU(I)	FBLL(I)	UREL(I)	WREL(I)
1	121.5	93.1	.0	.0	1.7	.0	9.2	.0	.0034	-.0001
2	92.3	141.5	.0	.0	9.2	.0	6.0	.0	.0143	-.0002
3	73.3	163.5	.0	.0	6.0	.0	3.4	.0	.0253	-.0002
4	.0	.0	.0	.0	3.4	.0	.0	.0	.0350	.0014

POSITION COORDINATES OF BOUNDARY CONTAINER

XMAX= 31.599, XMIN= -2.086, YMAX= 82.158, YMIN= .000

DELTA DISPLMNTS OF 4 CORNERS (DISPL) AT LL= 4500

.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	.00	.00	-.01	-.01	-.08	-.08
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00

.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	-.00	-.00	-.01	-.01	-.08	-.08
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00

.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	-.00	-.00	-.01	-.01	-.08	-.08
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00

.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00	-.01	-.01	-.01	-.01	-.08	-.08
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00

.00	.00	.00	.00	.00	.00	.00	.00	-.00	-.00	-.01	-.01	-.01	-.01	-.08	-.08
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00

9- 3	-.03	1.09000	.00	.00000	-.00	1.06000	.00	1.09000	.00	.00000	.04	1.09000
9- 4	-.02	1.09000	.00	.00000	-.00	1.06000	.00	1.09000	.00	.00000	.05	1.09000
9- 5	-.01	1.09000	.00	1.06000	-.00	1.06000	.00	1.09000	.00	.00000	.05	1.09000
9- 6	-.00	1.09000	.00	1.06642	-.00	1.06000	.00	1.09000	.00	.00000	.05	1.09000
10- 1	-.09	1.09000	.00	.00000	.00	.00000	.00	.00000	-.00	1.07338	.00	.00000
10- 2	-.09	1.09000	.00	.00000	.00	.00000	.00	.00000	-.00	1.07726	.00	.00000
10- 3	-.09	1.09000	.00	.00000	.00	.00000	.00	.00000	-.00	1.07020	.00	1.07672
10- 4	-.09	1.09000	.00	.00000	.00	.00000	.00	.00000	-.00	1.07428	.00	1.08116
10- 5	-.09	1.09000	.00	.00000	.00	.00000	.00	.00000	-.00	1.07218	.00	1.08556
10- 6	-.09	1.09000	.00	.00000	.00	.00000	.00	.00000	-.00	1.08058	.00	1.09000

9- 3	-1.12	1.08148	.00	.00000	.00	.00000	.09	1.06158	.00	.00000	1.54	1.06440
9- 4	-1.00	1.09000	.00	.00000	.00	.00000	.09	1.06212	.00	.00000	1.59	1.06000
9- 5	-.91	1.09000	.00	.00000	.00	.00000	.09	1.06232	.00	.00000	1.73	1.06000
9- 6	-.82	1.09000	.48	1.06000	.00	.00000	.09	1.06236	.00	.00000	1.78	1.06000
<hr/>												
10- 1	-1.34	1.06000	.00	.00000	.00	.00000	.00	.00000	-.00	1.07094	.00	1.08288
10- 2	-1.34	1.06000	.00	.00000	.00	.00000	.00	.00000	-.01	1.07416	.01	1.08032
10- 3	-1.34	1.06000	.00	.00000	.00	.00000	.00	.00000	-.02	1.07910	.02	1.07396
10- 4	-1.34	1.06000	.00	.00000	.00	.00000	.00	.00000	-.03	1.08400	.04	1.07768
10- 5	-1.35	1.06000	.00	.00000	.00	.00000	.00	.00000	-.04	1.08806	.04	1.08254
10- 6	-1.35	1.06000	.00	.00000	.00	.00000	.00	.00000	-.03	1.07340	.08	1.08670

9- 3	29.4	1.06980	.0	.00000	104.8	1.06184	.0	.00000	.0	.00000	-2.8	1.06038	8.9	1.06000
9- 4	30.7	1.07028	.0	.00000	80.3	1.06192	.0	.00000	.0	.00000	1.6	1.06000	7.0	1.09000
9- 5	24.6	1.07050	.0	.00000	50.6	1.06194	.0	.00000	.0	.00000	5.1	1.06000	7.2	1.06452
9- 6	13.1	1.07060	.0	.00000	21.0	1.06028	.0	.00000	.0	.00000	5.0	1.06000	5.0	1.06476
1C- 1	.0	.00000	.0	.00000	.0	.00000	.6	1.07076	.0	.00000	.0	.00000	.0	.00000
1C- 2	.0	.00000	.0	.00000	.0	.00000	.6	1.07076	.0	.00000	-0.0	1.07268	-0.0	1.07230
10- 3	.0	.00000	.0	.00000	.0	.00000	.6	1.07076	.0	.00000	-0.0	1.07076	-0.0	1.07446
10- 4	.0	.00000	.0	.00000	.0	.00000	.7	1.07062	.0	.00000	-0.0	1.07544	-0.0	1.07152
1C- 5	.0	.00000	.0	.00000	.0	.00000	.7	1.07080	.0	.00000	-0.0	1.07794	-0.0	1.09000
10- 6	.0	.00000	.0	.00000	.0	.00000	.7	1.07064	.0	.00000	-0.0	1.07456	-0.0	1.08176

SUMMARY OF MAXIMUM SPRING PACK FORCES

SP PK	LEFT SIDE FORCE	TIME	RIGHT SIDE FORCE	TIME
2	.64	1.070760	7.85	1.060160
3	.64	1.070760	5.88	1.060620
4	.65	1.070620	3.89	1.060160
5	.66	1.070800	2.04	1.060000
6	.68	1.070840	-1.82	1.090000
7	.67	1.071060	-1.98	1.070920

SUMMARY OF MAXIMUM CORE SUPPORT POST LOADS

I(ELEMENT)	FVL(I)	TIME	FVR(I)	TIME	FHL(I)	TIME	FHR(I)	TIME
1	170.8	1.06072	93.1	1.08876	.0	.00000	.0	.00000
2	100.8	1.06992	141.5	1.08900	.0	.00000	.0	.00000
3	73.3	1.08046	169.5	1.06158	.0	.00000	.0	.00000
4	.0	.00000	.0	.00000	.0	.00000	.0	.00000

SUMMARY OF MAXIMUM CORE FLOOR ELEMENT LATERAL IMPACT LOADS

I(ELEMENT)	FBRU(I)	TIME	FBRD(I)	TIME	FBLU(I)	TIME	FBRD(I)	TIME
1	9.8	1.06000	.0	.00000	19.5	1.06000	.0	.00000
2	19.5	1.06000	.0	.00000	23.3	1.06000	3.5	1.06000
3	23.3	1.06000	3.5	1.06000	10.8	1.06000	.0	.00000
4	10.8	1.06000	.0	.00000	.0	.00000	.0	.00000

MAXIMUM RELATIVE DISPLACEMENT BETWEEN FLOOR ELEMENTS AND PCRV

I(ELEMENT)	UREL(I)	TIME	WREL(I)	TIME
1	.0124	1.06090	-.0001	1.07692
2	.0232	1.06078	-.0002	1.07850
3	.0342	1.06072	-.0002	1.06162
4	.0451	1.06000	.0014	1.09000

PCRV - - - - - .09 - .54 .00 .00 - - - - -

CORE SUPPORT FLOOR.....	SUPPORT POST LOADS.....	SUPPORT ELEMENT LATERAL IMPACT LOADS,RELATIVE U AND V.....
11(ELEMENT)	FVL(1) FVR(1) FHL(1) FHR(1)	FBRU(1) FBRV(1) FBLU(1) FBLV(1) UREL(1) VREL(1)
1	72.1 100.6 .0 .0	.0 .0 4.2 1.4 -.0075 -.0001
2	89.7 142.8 .0 .0	4.2 1.4 6.7 .0 .0080 -.0002
3	73.5 161.1 .0 .0	6.7 .0 4.1 .0 .0190 -.0002
4	.0 .0 .0 .0	4.1 .0 .0 .0 .0284 .0015

POSITION COORDINATES OF BOUNDARY CONTAINER

XMAX= 31.593, XMIN= -2.092, YMAX= 62.158, YMIN= .000

DELTA DISPLMNTS OF 4 CORNERS (DISPL) AT LL= 5000

.00 .00 .00 .00	.01 .01 .01 .01	.00 .00 -.00 -.00	-.02 -.02 -.09 -.09
.00 .00 .00 .00	.00 -.00 .00 -.00	.00 -.00 .00 .00	-.00 -.00
.00 .00 .00 .00			

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.00 .00 .00 .00	.01 .01 .00 .00	-.00 -.00 -.00 -.00	-.02 -.02 -.09 -.09
.00 .00 .00 .00	.00 -.00 .00 -.00	.00 -.00 .00 .00	-.00 -.00
.00 .00 .00 .00			

.00 .00 .00 .00	.01 .01 .00 .00	-.00 -.00 -.00 -.00	-.02 -.02 -.09 -.09
.00 .00 .00 .00	.00 -.00 .00 -.00	.00 -.00 .00 .00	-.00 -.00
.00 .00 .00 .00			

.00 .00 .00 .00	-.00 -.00 -.00 -.00	-.01 -.01 -.01 -.01	-.02 -.02 -.09 -.09
.00 .00 .00 .00	.00 -.00 .00 -.00	.00 -.00 .00 .00	-.00 -.00
.00 .00 .00 .00			

.00 .00 .00 .00	-.00 -.00 -.00 -.00	-.01 -.01 -.01 -.01	-.02 -.02 -.09 -.09
.00 .00 .00 .00	.00 -.00 .00 -.00	.00 -.00 .00 .00	-.00 -.00
.00 .00 .00 .00			

PCRV =.10 -.11 .00 .00

CORE SUPPORT FLOOR.....SUPPORT POST LOADS.....SUPPORT ELEMENT LATERAL IMPACT LOADS,RELATIVE U AND W.....

I (ELEMENT)	FVL(I)	FVR(I)	FHL(I)	FHR(I)	FBRU(I)	FBRL(I)	FBLU(I)	FBLL(I)	UREL(I)	WREL(I)
1	105.2	95.0	.0	.0	.0	.0	4.3	.0	-.0125	-.0001
2	98.9	144.3	.0	.0	4.3	.0	8.1	.0	.0035	-.0002
3	73.9	161.3	.0	.0	8.1	.0	3.7	.0	.0145	-.0002
4	.0	.0	.0	.0	3.7	.0	.0	.0	.0238	.0015

POSITION COORDINATES OF BOUNDARY CONTAINER

XMAX= 31.589, XMIN= -2.096, YMAX= 82.158, YMIN= .000

DELTA DISPLMNTS OF 4 CORNERS (DISPL) AT LL= 5500

.00	.00	.00	.00	.00	.00	-.00	-.00	-.00	-.00	-.01	-.01	-.03	-.03	-.10	-.10
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

.00	.00	.00	.00	.00	.00	-.00	-.00	-.00	-.00	-.01	-.01	-.01	-.01	-.04	-.04
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

.00	.00	.00	.00	.00	.00	-.00	-.00	-.00	-.00	-.01	-.01	-.01	-.01	-.04	-.04
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

.00	.00	.00	.00	.00	.00	-.01	-.01	-.01	-.01	-.02	-.02	-.02	-.02	-.04	-.04
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

.00	.00	.00	.00	.00	.00	-.01	-.01	-.01	-.01	-.02	-.02	-.02	-.02	-.04	-.04
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

5-12	.09	-.50	-.04	-1.28	.00	.05	8.9	.0	11.3	.0	.0	-.6	1.5
5-13	.09	-.64	-.03	-1.33	.00	.05	7.1	.0	8.1	.0	.0	-.7	1.2
5-14	.09	-.67	-.02	-1.39	.00	.05	2.1	.0	1.9	.0	.0	-.6	.5
6- 1	.00	.11	-.09	-.64	-.00	.00	17.0	.0	71.3	.0	1.4	3.3	-2.1
6- 2	.00	.16	-.09	-.64	-.00	.01	13.3	.0	66.9	.0	1.7	4.1	-1.6
6- 3	.01	.16	-.09	-.62	-.00	.01	12.2	.0	63.5	.0	4.5	3.7	-1.3
6- 4	.01	.11	-.09	-.60	-.00	.01	11.4	.0	63.3	.0	7.3	-2.0	-1.0
6- 5	.06	-5.33	-.09	-.88	.00	-.12	.0	.0	57.6	.0	3.9	-2.4	1.7
6- 6	.07	-.38	-.08	-1.20	.00	.00	3.1	.0	51.9	.0	2.3	.8	2.1
6- 7	.08	-.39	-.07	-1.26	.00	.00	5.2	.0	43.3	.0	.9	.8	2.7
6- 8	.08	-.36	-.06	-1.31	.00	.00	7.9	.0	35.7	.0	.0	.7	2.5
6- 9	.08	-.29	-.06	-1.35	.00	.00	10.2	.0	28.5	.0	.0	.6	2.1
6-10	.08	-.09	-.05	-1.37	.00	.00	10.6	.0	21.6	.0	.0	.7	1.7
6-11	.08	.25	-.04	-1.35	.00	-.00	9.1	.0	15.1	.0	.0	.6	1.5
6-12	.08	.51	-.03	-1.32	.00	-.00	6.3	.0	9.2	.0	.0	.3	1.1
6-13	.06	.71	-.03	-1.26	.00	-.00	4.8	.0	6.6	.0	.0	.3	.8
6-14	.08	.74	-.02	-1.19	.00	-.00	1.6	.0	1.8	.0	.0	-.2	.3
7- 1	.01	.23	-.09	-.64	-.00	.01	7.7	.0	72.6	.0	.0	-2.7	1.4
7- 2	.01	.50	-.09	-.62	-.00	.01	4.4	.0	67.2	.0	.0	-1.9	1.3
7- 3	.02	-3.18	-.09	-.76	-.00	-.08	.0	.0	64.7	.0	.0	-1.9	1.3
7- 4	.07	-.34	-.09	-.97	.00	-.01	.0	.0	59.1	.0	.0	.9	1.7
7- 5	.07	-.36	-.08	-1.01	.00	-.01	4.2	.0	52.8	.0	.0	.8	2.1
7- 6	.07	-.36	-.07	-1.04	.00	-.01	4.7	.0	46.5	.0	.0	-1.1	2.0
7- 7	.08	-.34	-.06	-1.08	.00	-.01	5.2	.0	39.0	.0	.0	-1.1	2.1
7- 8	.08	-.30	-.05	-1.11	.00	-.01	6.2	.0	30.9	.0	.0	-.8	2.1
7- 9	.08	-.28	-.04	-1.14	.00	-.01	6.9	.0	27.2	.0	.0	-.7	2.0
7-10	.08	-.36	-.04	-1.17	.00	-.01	6.7	.0	16.9	.0	.0	-.6	1.6
7-11	.08	-.48	-.03	-1.20	.00	-.01	6.1	.0	10.9	.0	.0	-.3	1.2
7-12	.08	-.58	-.02	-1.25	.00	-.01	5.1	.0	8.3	.0	.0	.4	.9
7-13	.08	-.63	-.02	-1.30	.00	-.01	3.1	.0	4.1	.0	.0	.5	.7
7-14	.08	-.64	-.01	-1.33	.00	-.01	1.5	.0	1.7	.0	.0	.3	.4
8- 1	.03	-.43	-.09	-.68	.00	-.01	.0	.0	72.2	3.9	.0	-1.0	4.1
8- 2	.03	-.37	-.09	-.70	.00	-.01	4.0	.0	67.6	.5	.0	-.5	.8
8- 3	.03	-.32	-.09	-.72	.00	-.00	3.2	.0	65.0	.0	.0	-.5	.8
8- 4	.04	-.26	-.09	-.73	.00	-.00	2.3	.0	62.3	.0	.0	-.3	.8
8- 5	.07	-.79	-.08	-.79	.00	-.01	.0	.0	56.6	.0	.0	-.2	1.1
8- 6	.07	-.46	-.07	-.86	.00	-.00	.0	.0	50.6	.0	.0	-.3	1.7
8- 7	.07	-.51	-.06	-.91	.00	.00	1.3	.0	43.8	.0	.0	-.4	2.1
8- 8	.08	-.54	-.06	-.97	.00	.00	3.1	.0	36.4	.0	.0	-.3	2.1
8- 9	.08	-.54	-.05	-1.02	.00	.00	4.6	.0	28.9	.0	.0	-.2	1.9
8-10	.09	-.52	-.04	-1.08	.00	.00	5.3	.0	21.7	.0	.0	.3	1.7
8-11	.08	-.51	-.03	-1.14	.00	.01	5.2	.0	14.9	.0	.0	.3	1.4
8-12	.08	-.52	-.02	-1.18	.00	.01	4.7	.0	8.9	.0	.0	.2	1.1
8-13	.08	-.54	-.02	-1.22	.00	.01	3.9	.0	6.2	.0	.0	.2	.9
8-14	.08	-.54	-.01	-1.27	.00	.01	1.4	.0	1.6	.0	.0	-.2	.3
9- 1	.03	-1.29	-.08	-.77	.00	-.05	12.0	.0	146.0	.0	4.2	1.6	5.2
9- 2	.03	-1.29	-.07	-1.03	.00	-.05	14.7	.0	119.6	.0	.0	.5	7.4
9- 3	.03	-1.29	-.07	-1.30	.00	-.05	17.5	.0	91.3	.0	.0	-.4	7.2
9- 4	.03	-1.31	-.06	-1.58	.00	-.05	18.0	.0	63.9	.0	.0	-.3	6.5
9- 5	.03	-1.32	-.05	-1.86	.00	-.05	15.9	.0	38.3	.0	.0	-.3	5.3
9- 6	.03	-1.32	-.05	-2.14	.00	-.05	10.5	.0	16.6	.0	.0	-.3	3.2
10- 1	-.00	.00	-.10	.48	.00	.00	.0	.0	.0	2.4	.0	.0	.0
10- 2	-.00	-.01	-.10	.48	.00	.00	.0	.0	.0	2.5	.0	-.0	-.0
10- 3	.00	.03	-.10	.48	.00	.00	.0	.0	.0	2.5	.0	-.1	-.0
10- 4	-.00	.06	-.10	.48	.00	.00	.0	.0	.0	2.5	.0	-.1	-.0
10- 5	-.00	-.11	-.10	.48	.00	.00	.0	.0	.0	2.5	.0	-.1	-.0
10- 6	.00	.09	-.10	.48	.00	.00	.0	.0	.0	2.4	.0	-.1	-.1

PCRV - .09 .60 .00 .00 -

CORE SUPPORT FLOOR.....	SUPPORT POST LOADS.....	SUPPORT ELEMENT LATERAL IMPACT LOADS,RELATIVE U AND W.....
I (ELEMENT)	FVL(I) FVR(I) FHL(I) FHR(I)	FBRU(I) FBRL(I) FBLU(I) FBLL(I) UREL(I) WREL(I)
1	146.4 62.2 .0 .0	.0 .0 4.8 .0 -.0215 -.0001
2	104.9 136.8 .0 .0	4.8 .0 9.2 .0 -.0106 -.0002
3	80.0 162.8 .0 .0	9.2 .0 6.3 .0 .0095 -.0002
4	.0 .0 .0 .0	6.3 .0 .0 .0 .0190 .0012

POSITION COORDINATES OF BOUNDARY CONTAINER
 XMAX= 31.591, XMIN= -2.094, YMAX= 82.158, YMIN= .000

DELTA DISPLMNTS OF 4 CORNERS (DISPL) AT LL= 6000

.00	.00	.00	.00	-.01	-.01	-.01	-.01	-.02	-.02	-.02	-.02	-.05	-.05	-.11	-.11
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

.00	.00	.00	.00	-.01	-.01	-.02	-.02	-.02	-.02	-.03	-.03	-.06	-.06	-.11	-.11
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

.00	.00	.00	.00	-.01	-.01	-.02	-.02	-.02	-.02	-.03	-.03	-.06	-.06	-.11	-.11
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

.00	.00	.00	.00	-.02	-.02	-.02	-.02	-.03	-.03	-.03	-.03	-.06	-.06	-.11	-.11
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

.00	.00	.00	.00	-.02	-.02	-.02	-.02	-.03	-.03	-.03	-.03	-.06	-.06	-.11	-.11
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

9- 3	-.07	1.12000	.00	.00000	.00	.00000	.00	1.09496	.00	.00000	.05	1.09544
9- 4	-.06	1.12000	.00	.00000	.00	.00000	.00	1.09492	.00	.00000	.05	1.09538
9- 5	-.05	1.12000	.00	.00000	.00	.00000	.00	1.09490	.00	.00000	.05	1.09534
9- 6	-.05	1.12000	.00	.00000	.00	.00000	.00	1.09490	.00	.00000	.05	1.09534

10- 1	-.10	1.11354	.00	.00000	.00	.00000	.00	.00000	-.00	1.11720	.00	.00000
10- 2	-.10	1.11354	.00	.00000	.00	.00000	.00	.00000	-.00	1.12000	.00	1.10436
10- 3	-.10	1.11354	.00	.00000	.00	.00000	.00	.00000	-.00	1.11414	.00	1.12000
10- 4	-.10	1.11362	.00	.00000	.00	.00000	.00	.00000	-.00	1.11844	.00	1.11250
10- 5	-.10	1.11358	.00	.00000	.00	.00000	.00	.00000	-.00	1.10458	.00	1.11624
10- 6	-.10	1.11346	.00	.00000	.00	.00000	.00	.00000	-.00	1.09822	.00	1.12000

(ESTIMATED RUN TIME EXCEEDED...ANALYSIS NOT RUN TO COMPLETION)

9- 3	-1.30	1.12700	.00	.00000	-.05	1.11840	.02	1.09024	-1.29	1.12000	.41	1.09000
9- 4	-1.58	1.12000	.00	.00000	-.05	1.11836	.02	1.09010	-1.31	1.12000	.41	1.09000
9- 5	-1.86	1.12000	.00	.00000	-.05	1.11836	.02	1.09000	-1.32	1.12000	.41	1.09000
9- 6	-2.14	1.12000	.00	.00000	-.05	1.11876	.02	1.09060	-1.32	1.12000	.41	1.09000
10- 1	-.80	1.09000	.48	1.12000	.00	.00000	.00	.00000	-.01	1.10382	.01	1.11794
10- 2	-.80	1.09000	.48	1.12000	.00	.00000	.00	.00000	-.03	1.11792	.02	1.11274
10- 3	-.80	1.09000	.48	1.12000	.00	.00000	.00	.00000	-.04	1.11116	.05	1.11744
10- 4	-.80	1.09000	.48	1.12000	.00	.00000	.00	.00000	-.07	1.11594	.06	1.11998
10- 5	-.80	1.09000	.48	1.12000	.00	.00000	.00	.00000	-.11	1.11922	.07	1.11394
10- 6	-.81	1.09000	.49	1.12000	.00	.00000	.00	.00000	-.09	1.09358	.17	1.11824

ESTIMATED RUN TIME EXCEEDED...ANALYSIS NOT RUN TO COMPLETION

9- 3	17.5	1.11986	.0	.00000	97.0	1.09000	.0	.00000	.0	.00000	-.4	1.11864	7.2	1.11398
9- 4	18.0	1.12000	.0	.00000	68.5	1.09000	.0	.00000	.0	.00000	-.3	1.11918	7.0	1.09058
9- 5	15.9	1.12000	.0	.00000	41.1	1.09044	.0	.00000	.0	.00000	-.3	1.11196	6.0	1.09100
9- 6	10.5	1.11940	.0	.00000	17.4	1.09040	.0	.00000	.0	.00000	-.3	1.11232	3.6	1.09132

10- 1	.0	.00000	.0	.00000	.0	.00000	2.4	1.12000	.0	.00000	.0	.00000	.0	.00000
10- 2	.0	.00000	.0	.00000	.0	.00000	2.4	1.12000	.0	.00000	-.0	1.11478	-.0	1.11926
10- 3	.0	.00000	.0	.00000	.0	.00000	2.5	1.12000	.0	.00000	-.1	1.11892	-.0	1.11936
10- 4	.0	.00000	.0	.00000	.0	.00000	2.5	1.12000	.0	.00000	-.1	1.12000	-.0	1.11864
10- 5	.0	.00000	.0	.00000	.0	.00000	2.5	1.12000	.0	.00000	-.1	1.11956	-.0	1.12000
10- 6	.0	.00000	.0	.00000	.0	.00000	2.5	1.12000	.0	.00000	-.1	1.11612	-.1	1.11748

..... (ESTIMATED RUN TIME EXCEEDED...ANALYSIS NOT RUN TO COMPLETION).....

SUMMARY OF MAXIMUM SPRING PACK FORCES

SP PK	LEFT SIDE		RIGHT SIDE	
	FORCE	TIME	FORCE	TIME
2	2.43	1.120000	-2.81	1.092620
3	2.46	1.120000	-2.47	1.092900
4	2.45	1.120000	-2.25	1.120000
5	2.46	1.120000	-2.23	1.120000
6	2.50	1.120000	-2.24	1.120000
7	2.37	1.120000	-2.37	1.120000

SUMMARY OF MAXIMUM CORE SUPPORT POST LOADS

IELEMENT	FVL(I)	TIME	FVR(I)	TIME	FHL(I)	TIME	FHR(I)	TIME
1	146.4	1.12000	100.6	1.09358	.0	.00000	.0	.00000
2	104.9	1.11636	144.3	1.10774	.0	.00000	.0	.00000
3	80.0	1.11026	162.8	1.11622	.0	.00000	.0	.00000
4	.0	.00000	.0	.00000	.0	.00000	.0	.00000

SUMMARY OF MAXIMUM CORE FLOOR ELEMENT LATERAL IMPACT LOADS

IELEMENT	FBR(I)	TIME	FBL(I)	TIME	FBLU(I)	TIME	FALL(I)	TIME
1	.0	.00000	.0	.00000	4.8	1.11654	1.4	1.09496
2	4.8	1.11654	1.4	1.09496	9.2	1.11738	.0	.00000
3	9.2	1.11738	.0	.00000	6.3	1.11802	.0	.00000
4	6.3	1.11802	.0	.00000	.0	.00000	.0	.00000

MAXIMUM RELATIVE DISPLACEMENT BETWEEN FLOOR ELEMENTS AND PCRV

IELEMENT	UREL(I)	TIME	WREL(I)	TIME
1	-.0215	1.12000	-.0001	1.09358
2	-.0106	1.12000	-.0002	1.10794
3	.0190	1.09000	-.0002	1.11018
4	.0284	1.09000	.0015	1.09512

(ESTIMATED RUN TIME EXCEEDED...ANALYSIS NOT RUN TO COMPLETION)

PCRV -.08 1.58 .00 .00

CORE SUPPORT FLOOR.....SUPPORT POST LOADS.....SUPPORT ELEMENT LATERAL IMPACT LOADS,RELATIVE U AND W.....
I(ELEMENT) FVL(I) FVR(I) FHL(I) FHR(I) FBRU(I) FBRL(I) FBLU(I) FBLL(I) UREL(I) WREL(I)

1	165.6	19.3	.0	.0	.0	.0	4.8	.0	-.0362	-.0001
2	107.3	130.1	.0	.0	4.8	.0	15.1	.0	-.0273	-.0002
3	74.0	167.2	.0	.0	15.1	.0	25.7	.0	-.0163	-.0002
4	.0	.0	.0	.0	25.7	.0	6.7	.0	.0104	.0006

POSITION COORDINATES OF BOUNDARY CONTAINER

XMAX= 31.602, XMIN= -2.083, YMAX= 82.158, YMIN= .000

DELTA DISPLMNTS OF 4 CORNERS (DISPL) AT LL= 6500

.00	.00	.00	.00	-.02	-.02	-.03	-.03	-.03	-.03	-.04	-.04	-.08	-.08	-.12	-.12
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00
.00	.00	.00	.00												

.00	.00	.00	.00	-.03	-.03	-.03	-.03	-.04	-.04	-.04	-.04	-.08	-.08	-.12	-.12
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00
.00	.00	.00	.00												

.00	.00	.00	.00	-.03	-.03	-.03	-.03	-.04	-.04	-.04	-.04	-.08	-.08	-.12	-.12
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00
.00	.00	.00	.00												

.00	.00	.00	.00	-.03	-.03	-.03	-.03	-.04	-.04	-.05	-.05	-.08	-.08	-.12	-.12
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00
.00	.00	.00	.00												

.00	.00	.00	.00	-.03	-.03	-.03	-.03	-.04	-.04	-.05	-.05	-.08	-.08	-.12	-.12
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00
.00	.00	.00	.00												

PCRV - .06 2.70 .00 .00

CORE SUPPORT FLOOR.....	SUPPORT POST LOADS.....	SUPPORT ELEMENT LATERAL IMPACT LOADS,RELATIVE U AND W.....
I(ELEMENT)	FVL(I) FVR(I) FHL(I) FHR(I) FBRU(I) FBRL(I) FBLU(I) FBLL(I) UPEL(I) WREL(I)	
1	174.8 .0 .0 .0 .0 .0 20.7 .0 -.0594 -.0001	
2	141.7 123.3 .0 .0 20.7 .0 35.0 13.5 -.0486 -.0002	
3	98.0 151.1 .0 .0 35.0 13.5 46.0 .0 -.0376 -.0002	
4	.0 .0 .0 .0 46.0 .0 24.1 .0 -.0266 .0001	

POSITION COORDINATES OF BOUNDARY CONTAINER

XMAX= 31.623, XMIN= -2.062, YMAX= 82.158, YMIN= .000

DELTA DISPLMNTS OF 4 CORNERS (DISPL) AT LL= 7000

.00	.00	.00	.00	-.04	-.04	-.05	-.05	-.05	-.05	-.06	-.06	-.11	-.11	-.14	-.14
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00	-.00	
.00	.00	.00	.00												
.00	.00	.00	.00	-.04	-.04	-.05	-.05	-.05	-.05	-.06	-.06	-.11	-.11	-.13	-.13
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00	-.00	
.00	.00	.00	.00												
.00	.00	.00	.00	-.04	-.04	-.05	-.05	-.05	-.05	-.06	-.06	-.11	-.11	-.13	-.13
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00	-.00	
.00	.00	.00	.00												
.00	.00	.00	.00	-.05	-.05	-.05	-.05	-.06	-.06	-.07	-.07	-.11	-.11	-.13	-.13
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00	-.00	
.00	.00	.00	.00												
.00	.00	.00	.00	-.05	-.05	-.05	-.05	-.06	-.06	-.07	-.07	-.11	-.11	-.13	-.13
.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	.00	-.00	-.00	-.00	-.00	
.00	.00	.00	.00												

PCRV -0.03 3.76 .00 .00

CORE SUPPORT FLOOR.....SUPPORT POST LOADS.....SUPPORT ELEMENT LATERAL IMPACT LOADS,RELATIVE U AND W.....

I(ELEMENT)	FVL(I)	FVR(I)	FHL(I)	FHR(I)	FBRU(I)	FBRL(I)	FBLU(I)	FBLL(I)	UREL(I)	WREL(I)
1	173.2	.0	.0	.0	.0	.0	32.8	.0	-.0811	.0007
2	170.0	82.0	.0	.0	32.8	.0	51.8	23.2	-.0709	-.0002
3	130.3	136.0	.0	.0	51.8	23.2	71.9	.0	-.0597	-.0002
4	.0	.0	.0	.0	71.9	.0	41.3	.0	-.0491	.0005

POSITION COORDINATES OF BOUNDARY CONTAINER

(MAX= 31.656, XMIN= -2.029, YMAX= 82.158, YMIN= .000

DELTA DISPLMNTS OF 4 CORNERS (DISPL) AT LL= 7500

.00	.00	.00	.00	-.06	-.06	-.07	-.07	-.08	-.08	-.08	-.08	-.15	-.15	-.15	-.15
.00	.00	.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	-.00	.00	-.00	.00
.00	.00	.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	-.00	.00	-.00	.00

.00	.00	.00	.00	-.06	-.06	-.07	-.07	-.08	-.08	-.08	-.08	-.15	-.15	-.15	-.15
.00	.00	.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	-.00	.00	-.00	.00
.00	.00	.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	-.00	.00	-.00	.00

.00	.00	.00	.00	-.07	-.07	-.07	-.07	-.08	-.08	-.09	-.09	-.14	-.14	-.14	-.14
.00	.00	.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	-.00	.00	-.00	.00
.00	.00	.00	.00	.00	.00	.00	-.00	.00	-.00	.00	-.00	-.00	.00	-.00	.00

9- 3	-.08	1.13248	.00	.00000	-.00	1.13312	.00	1.12000	.00	.00000	.03	1.12000
9- 4	-.08	1.13308	.00	.00000	-.00	1.13386	.00	1.12000	.00	.00000	.03	1.12000
9- 5	-.08	1.13360	.00	.00000	-.00	1.14012	.00	1.12000	.00	.00000	.03	1.12000
9- 6	-.08	1.13402	.00	.00000	-.00	1.14000	.00	1.15000	-.00	1.14446	.04	1.15000
10- 1	-.10	1.12000	.00	.00000	.00	.00000	.00	.00000	-.00	1.12948	.02	1.15000
10- 2	-.10	1.12000	.00	.00000	.00	.00000	.00	.00000	-.00	1.13068	.02	1.15000
10- 3	-.10	1.12000	.00	.00000	.00	.00000	.00	.00000	-.00	1.13176	.02	1.15000
10- 4	-.10	1.12000	.00	.00000	.00	.00000	.00	.00000	-.00	1.13778	.02	1.15000
10- 5	-.10	1.12000	.00	.00000	.00	.00000	.00	.00000	-.02	1.13996	.02	1.14888
10- 6	-.10	1.12000	.00	.00000	.00	.00000	.00	.00000	-.02	1.14254	.04	1.15000

(ESTIMATED RUN TIME EXCEEDED...ANALYSIS NOT RUN TO COMPLETION)

9- 3	-1.48	1.13090	2.60	1.15000	-.26	1.13284	.22	1.13336	-5.20	1.13198	6.97	1.13252
9- 4	-1.86	1.13148	3.02	1.15000	-.35	1.13352	.25	1.14620	-8.59	1.13280	6.04	1.13324
9- 5	-2.27	1.13240	2.86	1.14702	-.62	1.14916	.27	1.14854	-12.91	1.13330	5.84	1.14840
9- 6	-2.88	1.13338	4.15	1.14870	-.49	1.14700	.59	1.14934	-13.79	1.13364	16.35	1.14908

10- 1	-.48	1.13128	2.08	1.15000	.00	.00000	.00	.00000	-4.48	1.13144	15.22	1.13006
10- 2	-.53	1.13246	2.37	1.15000	.00	.00000	.00	.00000	-8.27	1.13222	18.23	1.13120
10- 3	-.48	1.13334	2.59	1.14996	.00	.00000	.00	.00000	-5.26	1.13296	21.87	1.13222
10- 4	-.69	1.13346	2.97	1.15000	.00	.00000	.00	.00000	-3.68	1.13714	19.10	1.13286
10- 5	-1.19	1.13390	2.82	1.14724	.00	.00000	.00	.00000	-7.32	1.15000	17.86	1.13330
10- 6	-2.24	1.13428	4.12	1.14804	.00	.00000	.00	.00000	-9.31	1.14474	21.00	1.14364

(ESTIMATED RUN TIME EXCEEDED...ANALYSIS NOT RUN TO COMPLETION)

9- 3	149.6	1.13200	.0	.00000	118.3	1.13104	143.8	1.13248	133.4	1.14588	30.3	1.13304	-8.7	1.13270
9- 4	174.0	1.13284	.0	.00000	113.4	1.13208	245.4	1.13307	191.1	1.14760	-30.8	1.13272	-15.7	1.13334
9- 5	137.4	1.13344	.0	.00000	114.1	1.14932	317.7	1.13348	253.3	1.14880	-27.5	1.13344	-19.9	1.13406
9- 6	94.6	1.14720	.0	.00000	166.7	1.14902	461.0	1.13384	416.0	1.14938	-26.7	1.14912	-15.4	1.13456

10- 1	.0	.00000	.0	.00000	.0	.00000	40.1	1.15000	141.9	1.13070	.0	.00000	.0	.00000
10- 2	.0	.00000	.0	.00000	.0	.00000	36.6	1.15000	130.4	1.13176	14.5	1.13066	10.4	1.13234
10- 3	.0	.00000	.0	.00000	.0	.00000	32.8	1.15000	143.8	1.13248	14.0	1.13178	-14.8	1.13150
10- 4	.0	.00000	.0	.00000	.0	.00000	29.4	1.15000	245.4	1.13302	11.5	1.13774	-14.2	1.13238
10- 5	.0	.00000	.0	.00000	.0	.00000	26.6	1.14936	317.7	1.13348	-8.4	1.13826	-8.7	1.14990
10- 6	.0	.00000	.0	.00000	.0	.00000	24.2	1.15000	461.0	1.13384	9.2	1.14968	-10.7	1.14076

(ESTIMATED RUN TIME EXCEEDED...ANALYSIS NOT RUN TO COMPLETION)

SUMMARY OF MAXIMUM SPRING PACK FORCES

SP PK	LEFT SIDE		RIGHT SIDE	
	FORCE	TIME	FORCE	TIME
2	36.57	1.150000	-4.19	1.129760
3	32.80	1.150000	-4.16	1.133200
4	29.37	1.150000	-4.12	1.133340
5	26.58	1.149360	-4.09	1.133880
6	24.25	1.150000	-3.99	1.138060
7	21.62	1.140880	-3.82	1.142720

SUMMARY OF MAXIMUM CORE SUPPORT POST LOADS

I(ELEMENT)	FVL(I)	TIME	FVR(I)	TIME	FHL(I)	TIME	FHR(I)	TIME
1	174.8	1.13280	19.3	1.12000	.0	.00000	.0	.00000
2	170.0	1.15000	130.1	1.12464	.0	.00000	.0	.00000
3	130.3	1.14650	167.2	1.12700	.0	.00000	.0	.00000
4	.0	.00000	.0	.00000	.0	.00000	.0	.00000

SUMMARY OF MAXIMUM CORE FLOOR ELEMENT LATERAL IMPACT LOADS

I(ELEMENT)	FBRU(I)	TIME	FBRL(I)	TIME	FBLU(I)	TIME	FBLL(I)	TIME
1	.0	.00000	.0	.00000	32.8	1.15000	.0	.00000
2	32.8	1.15000	.0	.00000	51.8	1.15000	23.2	1.14992
3	51.8	1.15000	23.2	1.14992	71.9	1.14952	.0	.00000
4	71.9	1.14952	.0	.00000	41.3	1.15000	.0	.00000

MAXIMUM RELATIVE DISPLACEMENT BETWEEN FLOOR ELEMENTS AND PCRV

I(ELEMENT)	UREL(I)	TIME	WREL(I)	TIME
1	-.0811	1.15000	.0007	1.15000
2	-.0709	1.15000	-.0002	1.14514
3	-.0597	1.15000	-.0002	1.14658
4	-.0491	1.15000	.0008	1.12000

(ESTIMATED RUN TIME EXCEEDED...ANALYSIS NOT RUN TO COMPLETION)

PCRV .01 4.59 .00 .00

CORE SUPPORT FLOOR.....	SUPPORT POST LOADS.....	SUPPORT ELEMENT LATERAL IMPACT LOADS,RELATIVE U AND W.....
I(ELEMENT)	FVL(I) FVR(I) FHL(I) FHR(I)	FBRU(I) FBRL(I) FBLU(I) FBLL(I) UREL(I) WREL(I)
1	175.3 .0 .0 .0	.0 .0 45.4 .0 -.0928 .0020
2	178.5 61.4 .0 .0	45.4 .0 61.9 28.2 -.0839 -.0002
3	132.9 129.6 .0 .0	61.9 28.2 85.6 .0 -.0727 -.0002
4	.0 .0 .0 .0	85.6 .0 49.8 .0 -.0628 .0012

POSITION COORDINATES OF BOUNDARY CONTAINER
XMAX= 31.698, XMIN= -1.987,

YMAX= 82.158, YMIN= .000

DELTA DISPLMNTS OF 4 CORNERS (DISPL) AT LL= 8000

.00 .00 .00 .00	-.02 -.02 -.08 -.08	-.11 -.11 -.12 -.12	-.18 -.18 -.17 -.17
.00 .00 .00 .00	.01 .00 .01 .01	.00 .00 .00 .00	-.00 .00 -.00 .00
.00 .00 .00 .00			

.00 .00 .00 .00	-.02 -.02 -.09 -.09	-.11 -.11 -.11 -.11	-.18 -.18 -.17 -.17
.00 .00 .00 .00	.01 .00 .01 .01	.00 .00 .00 .00	-.00 .00 -.00 .00
.00 .00 .00 .00			

.00 .00 .00 .00	-.02 -.02 -.09 -.09	-.11 -.11 -.12 -.12	-.18 -.18 -.17 -.17
.00 .00 .00 .00	.00 .00 .01 .00	.00 .00 .00 .00	-.00 .00 -.00 .00
.00 .00 .00 .00			

.00 .00 .00 .00	-.02 -.02 -.09 -.09	-.11 -.11 -.11 -.11	-.17 -.17 -.16 -.16
.00 .00 .00 .00	.00 .00 .01 .00	.00 .00 .00 .00	-.00 .00 -.00 .00
.00 .00 .00 .00			

.00 .00 .00 .00	-.02 -.02 -.09 -.09	-.11 -.11 -.11 -.11	-.17 -.17 -.16 -.16
.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	-.00 .00 -.00 .00
.00 .00 .00 .00			

PCRV .06 5.14 .00 .00

CORE SUPPORT FLOOR.....SUPPORT POST LOADS.....SUPPORT ELEMENT LATERAL IMPACT LOADS,RELATIVE U AND W.....

I (ELEMENT)	FVL(I)	FVR(I)	FHL(I)	FHR(I)	FBRU(I)	FBRL(I)	FBLU(I)	FBLL(I)	UREL(I)	WREL(I)
1	177.5	.0	.0	.0	.0	.0	44.1	.0	-.0932	.0045
2	272.6	83.1	.0	.0	44.1	.0	66.9	28.6	-.0848	-.0003
3	228.4	199.1	.0	.0	66.9	28.6	89.8	.0	-.0736	-.0003
4	.0	.0	.0	.0	89.8	.0	50.1	.0	-.0640	.0015

POSITION COORDINATES OF BOUNDARY CONTAINER

XMAX= 31.747, XMIN= -1.938, YMAX= 82.158, YMIN= .000

DELTA DISPLMNTS OF 4 CORNER\$ (DISPL) AT LL= 8500

.00	.00	.00	.00	.02	.02	-.05	-.05	-.11	-.11	-.12	-.12	-.18	-.18	-.20	-.20
.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	.01	.01	.02	.01	.00	.01
.00	.00	.00	.00												

.00	.00	.00	.00	.02	.02	-.05	-.05	-.11	-.11	-.12	-.12	-.19	-.19	-.19	-.19
.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	.01	.01	.02	.01	.00	.01
.00	.00	.00	.00												
.00	.00	.00	.00	.02	.02	-.05	-.05	-.11	-.11	-.12	-.12	-.19	-.19	-.19	-.19
.00	.00	.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	.01	.01	.00	.01
.00	.00	.00	.00												

.00	.00	.00	.00	.02	.02	-.04	-.04	-.11	-.11	-.12	-.12	-.19	-.19	-.18	-.18
.00	.00	.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	.01	.01	.00	.01
.00	.00	.00	.00												
.00	.00	.00	.00	.02	.02	-.04	-.04	-.11	-.11	-.12	-.12	-.19	-.19	-.18	-.18
.00	.00	.00	.00	.00	.00	.01	.01	.01	.01	.00	.01	.01	.01	.00	.01
.00	.00	.00	.00												

PCRV .11 5.49 .00 .00

CORE SUPPORT FLOOR.....SUPPORT POST LOADS.....SUPPORT ELEMENT LATERAL IMPACT LOADS,RELATIVE U AND W.....

I(ELEMENT)	FVL(I)	FVR(I)	FHL(I)	FHR(I)	FBRU(I)	FBRL(I)	FBLU(I)	FBLL(I)	URCL(I)	WRCL(I)
1	179.6	.0	.0	.0	.0	.0	36.0	.0	-.0866	.0077
2	263.2	84.1	.0	.0	36.0	.0	59.1	27.4	-.0801	-.0003
3	126.4	137.4	.0	.0	59.1	27.4	71.4	.0	-.0690	-.0002
4	.0	.0	.0	.0	71.4	.0	44.7	.0	-.0593	.0016

POSITION COORDINATES OF BOUNDARY CONTAINER

XMAX= 31.800, XMIN= -1.885, YMAX= 82.158, YMIN= .000

DELTA DISPLMNTS OF 4 CORNERS (DISPL) AT LL= 9000

.00	.00	.00	.00	.07	.07	-.00	-.00	-.07	-.07	-.08	-.08	-.15	-.15	-.21	-.21
.00	.00	.00	.00	.00	.00	.01	.01	.02	.02	.02	.02	.04	.04	.02	.01
.00	.00	.00	.00	.00	.00	.01	.01	.02	.02	.02	.02	.04	.04	.02	.01
.00	.00	.00	.00	.00	.00	.01	.01	.02	.02	.02	.02	.04	.04	.02	.01

.00	.00	.00	.00	.07	.07	-.00	-.00	-.07	-.07	-.08	-.08	-.15	-.15	-.21	-.21
.00	.00	.00	.00	.00	.00	.01	.01	.02	.02	.02	.02	.04	.04	.02	.01
.00	.00	.00	.00	.00	.00	.01	.01	.02	.02	.02	.02	.04	.04	.02	.01
.00	.00	.00	.00	.00	.00	.01	.01	.02	.02	.02	.02	.04	.04	.02	.01

.00	.00	.00	.00	.07	.07	-.00	-.00	-.07	-.07	-.08	-.08	-.15	-.15	-.21	-.21
.00	.00	.00	.00	.00	.00	.01	.01	.02	.02	.02	.02	.04	.04	.02	.01
.00	.00	.00	.00	.00	.00	.01	.01	.02	.02	.02	.02	.04	.04	.02	.01
.00	.00	.00	.00	.00	.00	.01	.01	.02	.02	.02	.02	.04	.04	.02	.01

.00	.00	.00	.00	.07	.07	.00	.00	-.07	-.07	-.08	-.08	-.14	-.14	-.20	-.20
.00	.00	.00	.00	.00	.00	.01	.01	.01	.01	.01	.02	.02	.02	.00	.01
.00	.00	.00	.00	.00	.00	.01	.01	.01	.01	.01	.02	.02	.02	.00	.01
.00	.00	.00	.00	.00	.00	.01	.01	.01	.01	.01	.02	.02	.02	.00	.01

.00	.00	.00	.00	.07	.07	.00	.00	-.07	-.07	-.08	-.08	-.14	-.14	-.20	-.20
.00	.00	.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	.02	.02	.00	.01
.00	.00	.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	.02	.02	.00	.01
.00	.00	.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	.02	.02	.00	.01

9- 3	-.07	1.15000	.09	1.18000	.00	.00000	.00	1.17818	-.00	1.18000	.04	1.16984
9- 4	-.06	1.15000	.09	1.18000	.00	.00000	.00	1.17570	-.02	1.17916	.03	1.16834
9- 5	-.06	1.15000	.08	1.18000	.00	.00000	.00	1.17296	-.02	1.17380	.03	1.16142
9- 6	-.05	1.15000	.08	1.18000	.00	.00000	.00	1.17266	-.02	1.17444	.04	1.15146
10- 1	-.07	1.15000	.08	1.18000	.00	.00000	.00	.00000	.00	.00000	.04	1.16514
10- 2	-.07	1.15000	.09	1.18000	.00	.00000	.00	.00000	.00	.00000	.05	1.16510
10- 3	-.07	1.15000	.09	1.18000	.00	.00000	.00	.00000	-.00	1.18000	.04	1.16986
10- 4	-.06	1.15000	.09	1.18000	.00	.00000	.00	.00000	-.02	1.17932	.03	1.16846
10- 5	-.06	1.15000	.08	1.18000	.00	.00000	.00	.00000	-.02	1.17368	.02	1.15594
10- 6	-.05	1.15000	.08	1.18000	.00	.00000	.00	.00000	-.02	1.17416	.04	1.15050

(ESTIMATED RUN TIME EXCEEDED...ANALYSIS NOT RUN TO COMPLETION)

9- 3	.00	.000000	6.44	1.17410	-.45	1.16780	.33	1.17034	-8.14	1.17706	3.42	1.16520
9- 4	.00	.000000	6.57	1.16796	-.46	1.16778	.82	1.16946	-10.63	1.16880	4.10	1.16798
9- 5	.00	.000000	6.23	1.16644	-.43	1.17566	.98	1.16802	-19.96	1.16774	4.50	1.16032
9- 6	.00	.000000	5.77	1.16602	-.53	1.15404	.67	1.16698	-16.28	1.16676	12.20	1.15956
10- 1	.00	.000000	7.82	1.18000	.00	.000000	.00	.000000	-4.10	1.18000	3.18	1.16088
10- 2	.00	.000000	6.99	1.17748	.00	.000000	.00	.000000	-4.62	1.17938	3.00	1.16186
10- 3	.00	.000000	6.47	1.17422	.00	.000000	.00	.000000	-9.14	1.17626	3.32	1.15644
10- 4	.00	.000000	6.56	1.16792	.00	.000000	.00	.000000	-13.41	1.16898	5.15	1.16290
10- 5	.00	.000000	6.32	1.16696	.00	.000000	.00	.000000	-23.20	1.16792	4.90	1.17564
10- 6	.00	.000000	6.14	1.16622	.00	.000000	.00	.000000	-20.62	1.16690	16.19	1.15974

(ESTIMATED RUN TIME EXCEEDED...ANALYSIS NOT RUN TO COMPLETION)

9- 3	157.7	1.15622	.0	.000000	111.8	1.16990	99.5	1.16260	174.3	1.16234	11.1	1.16886	6.6	1.16924
9- 4	154.0	1.15940	.0	.000000	42.4	1.15024	156.9	1.15964	299.2	1.15926	15.1	1.16866	7.4	1.17016
9- 5	133.8	1.16762	.0	.000000	131.5	1.17584	299.9	1.15950	636.3	1.15914	-16.2	1.16994	-11.0	1.17048
9- 6	103.6	1.15546	.0	.000000	97.9	1.17692	225.1	1.16688	456.0	1.16702	-14.7	1.16014	-20.4	1.17052
10- 1	.0	.000000	.0	.000000	.0	.000000	48.9	1.16102	84.5	1.16594	.0	.000000	.0	.000000
10- 2	.0	.000000	.0	.000000	.0	.000000	41.9	1.15936	41.6	1.16532	2.6	1.17808	2.9	1.18000
10- 3	.0	.000000	.0	.000000	.0	.000000	35.8	1.15648	99.5	1.16260	4.9	1.17610	3.8	1.17058
10- 4	.0	.000000	.0	.000000	.0	.000000	30.7	1.15484	156.9	1.15964	13.8	1.16898	-6.2	1.17690
10- 5	.0	.000000	.0	.000000	.0	.000000	27.0	1.15328	299.9	1.15950	-23.1	1.16850	-6.5	1.15000
10- 6	.0	.000000	.0	.000000	.0	.000000	27.9	1.17640	225.1	1.16688	-19.9	1.16742	-11.9	1.17158

(ESTIMATED RUN TIME EXCEEDED...ANALYSIS NOT RUN TO COMPLETION)

SUMMARY OF MAXIMUM SPRING PACK FORCES

SP PK	LEFT SIDE		RIGHT SIDE	
	FORCE	TIME	FORCE	TIME
2	41.92	1.159360	-2.29	1.151000
3	35.76	1.156480	-2.33	1.151040
4	30.69	1.154840	-2.37	1.150480
5	27.01	1.153280	-2.47	1.150480
6	27.92	1.176400	-2.73	1.150020
7	30.47	1.173660	-2.91	1.150000

SUMMARY OF MAXIMUM CORE SUPPORT POST LOADS

I(ELEMENT)	FVL(I)	TIME	FVR(I)	TIME	FHL(I)	TIME	FHR(I)	TIME
1	179.6	1.17380	.0	.00000	.0	.00000	.0	.00000
2	272.6	1.16962	84.1	1.17118	.0	.00000	.0	.00000
3	228.4	1.16858	199.1	1.16846	.0	.00000	.0	.00000
4	.0	.00000	.0	.00000	.0	.00000	.0	.00000

SUMMARY OF MAXIMUM CORE FLOOR ELEMENT LATERAL IMPACT LOADS

I(ELEMENT)	FBRU(I)	TIME	FBRL(I)	TIME	FBLU(I)	TIME	FBLI(I)	TIME
1	.0	.00000	.0	.00000	45.4	1.15770	.0	.00000
2	45.4	1.15770	.0	.00000	66.9	1.16436	28.6	1.16670
3	66.9	1.16436	28.6	1.16670	89.8	1.16590	.0	.00000
4	89.8	1.16590	.0	.00000	50.1	1.16116	.0	.00000

MAXIMUM RELATIVE DISPLACEMENT BETWEEN FLOOR ELEMENTS AND PCRV

I(ELEMENT)	UREL(I)	TIME	WREL(I)	TIME
1	-.0932	1.16202	.0077	1.18000
2	-.0848	1.16366	-.0003	1.16984
3	-.0736	1.16360	-.0003	1.16862
4	-.0640	1.16354	.0016	1.17144

(ESTIMATED RUN TIME EXCEEDED...ANALYSIS NOT RUN TO COMPLETION)

PCRV .17 5.81 .00 .00

CORE SUPPORT FLOOR.....SUPPORT POST LOADS.....SUPPORT ELEMENT LATERAL IMPACT LOADS,RELATIVE U AND W.....

I(ELEMENT)	FVL(I)	FVR(I)	FHL(I)	FHR(I)	FBRU(I)	FBRL(I)	FBLU(I)	FBLL(I)	UREL(I)	WREL(I)
1	290.4	.0	.0	.0	.0	.0	29.4	.0	-.0637	.0115
2	270.4	121.4	.0	.0	29.4	.0	49.7	23.1	-.0604	-.0003
3	193.8	156.9	.0	.0	49.7	23.1	61.4	36.7	-.0493	-.0003
4	265.0	152.8	.0	.0	61.4	36.7	26.8	.0	-.0390	.0008

POSITION COORDINATES OF BOUNDARY CONTAINER

XMAX= 31.856, XMIN= -1.829, YMAX= 82.158, YMIN= .000

DELTA DISPLMNTS OF 4 CORNERS (DISPL) AT LL= 9500

.00	.00	.00	.00	.11	.11	.04	.04	-.03	-.03	-.04	-.04	-.10	-.10	-.16	-.16
.00	.00	.00	.00	.00	.00	.01	.01	.02	.03	.02	.02	.02	.02	.03	.04

.00	.00	.00	.00	.12	.12	.05	.05	-.02	-.02	-.03	-.03	-.10	-.10	-.16	-.16
.00	.00	.00	.00	.00	.00	.01	.01	.02	.03	.02	.02	.02	.02	.03	.04

.00	.00	.00	.00	.12	.12	.05	.05	-.02	-.02	-.03	-.03	-.10	-.10	-.16	-.16
.00	.00	.00	.00	.00	.00	.01	.01	.01	.02	.01	.02	.02	.02	.02	.02

.00	.00	.00	.00	.12	.12	.05	.05	-.01	-.01	-.02	-.02	-.09	-.09	-.16	-.16
.00	.00	.00	.00	.00	.00	.01	.01	.01	.02	.01	.02	.02	.02	.02	.02

.00	.00	.00	.00	.12	.12	.05	.05	-.01	-.01	-.02	-.02	-.09	-.09	-.16	-.16
.00	.00	.00	.00	.00	.00	.01	.01	.01	.02	.01	.02	.02	.02	.02	.02

PCRV .23 6.25 .00 .00

CORE SUPPORT FLOOR.....SUPPORT POST LOADS.....SUPPORT ELEMENT LATERAL IMPACT LOADS,RELATIVE U AND W,....

I(ELEMENT)	FVL(I)	FVR(I)	FHL(I)	FHR(I)	FBRU(I)	FBRL(I)	FBLU(I)	FBLL(I)	UREL(I)	WREL(I)
1	240.7	.0	.0	.0	.0	.0	.0	.0	-.0315	.0143
2	188.8	102.3	.0	.0	.0	.0	18.4	10.6	-.0331	-.0002
3	179.7	89.7	.0	.0	18.4	10.6	11.7	21.4	-.0222	-.0002
4	251.1	75.2	.0	.0	11.7	21.4	6.2	.0	-.0113	-.0001

POSITION COORDINATES OF BOUNDARY CONTAINER

XMAX= 31.916, XMIN= -1.769, YMAX= 82.158, YMIN= .000

DELTA DISPLMNTS OF 4 CORNERS (DISPL) AT LL= 10000

.00	.00	.00	.00	.18	.18	.11	.11	.04	.04	.03	.03	-.04	-.04	-.10	-.10
.00	.00	.00	.00	.00	.00	.01	.01	.02	.02	.01	.01	.02	.02	.03	.03
.00	.00	.00	.00												
.00	.00	.00	.00												

.00	.00	.00	.00	.18	.18	.11	.11	.04	.04	.03	.03	-.03	-.03	-.10	-.10
.00	.00	.00	.00	.00	.00	.01	.01	.02	.02	.01	.01	.02	.02	.03	.03
.00	.00	.00	.00												
.00	.00	.00	.00												

.00	.00	.00	.00	.18	.18	.11	.11	.04	.04	.03	.03	-.03	-.03	-.10	-.10
.00	.00	.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	.02	.02	.02	.02
.00	.00	.00	.00												
.00	.00	.00	.00												

.00	.00	.00	.00	.18	.18	.11	.11	.05	.05	.04	.04	-.03	-.03	-.10	-.10
.00	.00	.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	.02	.02	.02	.02
.00	.00	.00	.00												
.00	.00	.00	.00												

.00	.00	.00	.00	.18	.18	.11	.11	.05	.05	.04	.04	-.03	-.03	-.10	-.10
.00	.00	.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	.02	.02	.02	.02
.00	.00	.00	.00												
.00	.00	.00	.00												

9- 3	.00	.00000	.22	1.20000	-.00	1.18666	.00	1.19938	-.06	1.19958	.00	.00000
9- 4	.00	.00000	.21	1.20000	-.00	1.18604	.00	1.18000	-.06	1.19756	.00	.00000
9- 5	.00	.00000	.20	1.20000	-.00	1.18634	.00	1.18000	-.06	1.20000	.00	.00000
9- 6	.00	.00000	.19	1.20000	.00	.00000	.00	1.20000	-.08	1.18908	.00	.00000
10- 1	.00	.00000	.23	1.20000	.00	.00000	.00	.00000	-.01	1.19152	.03	1.18000
10- 2	.00	.00000	.23	1.20000	.00	.00000	.00	.00000	-.03	1.19472	.03	1.18000
10- 3	.00	.00000	.22	1.20000	.00	.00000	.00	.00000	-.06	1.20000	.00	.00000
10- 4	.00	.00000	.21	1.20000	.00	.00000	.00	.00000	-.06	1.19756	.00	.00000
10- 5	.00	.00000	.20	1.20000	.00	.00000	.00	.00000	-.06	1.19236	.00	.00000
10- 6	.00	.00000	.19	1.20000	.00	.00000	.00	.00000	-.08	1.18900	.00	.00000

9- 3	.00	.00000	7.69	1.19530	-.67	1.18446	.49	1.19786	-6.93	1.19818	1.09	1.18512
9- 4	.00	.00000	7.18	1.20000	-.72	1.18152	.71	1.19520	-8.18	1.19520	2.10	1.19478
9- 5	.00	.00000	6.92	1.19856	-.67	1.18140	.55	1.18876	-12.75	1.19086	3.11	1.19520
9- 6	.00	.00000	6.94	1.19830	-.78	1.18094	.79	1.18668	-17.80	1.18562	23.62	1.19068

10- 1	.00	.00000	7.85	1.19110	.00	.00000	.00	.00000	-6.24	1.18448	3.61	1.19356
10- 2	.00	.00000	7.86	1.19604	.00	.00000	.00	.00000	-6.76	1.18522	2.82	1.19734
10- 3	.00	.00000	7.73	1.19538	.00	.00000	.00	.00000	-7.48	1.18004	1.27	1.18444
10- 4	.00	.00000	7.01	1.20000	.00	.00000	.00	.00000	-8.25	1.19526	2.50	1.18000
10- 5	.00	.00000	6.99	1.19790	.00	.00000	.00	.00000	-15.45	1.19058	3.41	1.19522
10- 6	.00	.00000	6.93	1.19814	.00	.00000	.00	.00000	-18.90	1.18556	23.98	1.19054

9- 3	225.8	1.18586	.0	.00000	9.3	1.18926	41.8	1.18146	59.6	1.18226	-18.4	1.19964	-10.2	1.20000
9- 4	183.5	1.18602	.0	.00000	108.4	1.19942	64.6	1.18632	85.2	1.19554	-16.0	1.19964	-12.3	1.20000
9- 5	126.6	1.19236	.0	.00000	151.9	1.19546	111.4	1.18994	177.7	1.19000	-22.7	1.19224	-9.7	1.19468
9- 6	101.6	1.18118	.0	.00000	277.2	1.19204	142.2	1.18426	172.9	1.18394	18.7	1.19550	-12.5	1.19290

10- 1	.0	.00000	.0	.00000	.0	.00000	25.7	1.18000	52.5	1.18136	.0	.00000	.0	.00000
10- 2	.0	.00000	.0	.00000	.0	.00000	22.5	1.18000	30.0	1.18714	5.5	1.20000	9.5	1.18336
10- 3	.0	.00000	.0	.00000	.0	.00000	18.9	1.18000	41.8	1.18146	-6.8	1.18268	-3.7	1.19504
10- 4	.0	.00000	.0	.00000	.0	.00000	21.6	1.18200	64.6	1.18632	-9.9	1.19574	-7.2	1.19704
10- 5	.0	.00000	.0	.00000	.0	.00000	24.0	1.18040	111.4	1.18994	-20.3	1.19234	-8.9	1.19484
10- 6	.0	.00000	.0	.00000	.0	.00000	33.6	1.19190	142.2	1.18426	-14.1	1.19304	-7.0	1.19326

SUMMARY OF MAXIMUM SPRING PACK FORCES

SP PK	LEFT SIDE		RIGHT SIDE	
	FORCE	TIME	FORCE	TIME
2	22.54	1.180000	-1.63	1.200000
3	18.93	1.180000	-1.62	1.200000
4	21.59	1.182000	-1.60	1.200000
5	23.97	1.180400	-1.58	1.200000
6	33.61	1.191900	-1.52	1.200000
7	40.76	1.187360	-1.41	1.200000

SUMMARY OF MAXIMUM CORE SUPPORT POST LOADS

I(ELEMENT)	FVL(I)	TIME	FVR(I)	TIME	FHL(I)	TIME	FHR(I)	TIME
1	290.4	1.18578	.0	.00000	.0	.00000	.0	.00000
2	270.4	1.18500	121.4	1.18476	.0	.00000	.0	.00000
3	193.8	1.18628	156.9	1.18178	.0	.00000	.0	.00000
4	265.0	1.18696	152.8	1.18434	.0	.00000	.0	.00000

SUMMARY OF MAXIMUM CORE FLOOR ELEMENT LATERAL IMPACT LOADS

I(ELEMENT)	FBRU(I)	TIME	FBRD(I)	TIME	FBLU(I)	TIME	FBLD(I)	TIME
1	.0	.00000	.0	.00000	29.4	1.18020	.0	.00000
2	29.4	1.18020	.0	.00000	49.7	1.18488	23.1	1.18374
3	49.7	1.18488	23.1	1.18374	61.4	1.18072	36.7	1.18596
4	61.4	1.18072	36.7	1.18596	26.9	1.18000	.0	.00000

MAXIMUM RELATIVE DISPLACEMENT BETWEEN FLOOR ELEMENTS AND PCRV

I(ELEMENT)	UREL(I)	TIME	WREL(I)	TIME
1	-.0638	1.18000	.0143	1.20000
2	-.0605	1.18000	-.0003	1.18498
3	-.0493	1.18000	-.0003	1.18184
4	-.0391	1.18000	.0008	1.18000

MCOCO SIMULATION-1/3 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1

T= 1.000

1

MCOCO SIMULATION-1/5 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1

To 1.030

MCOCO SIMULATION-1/5 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1

T= 1.040

MCOCO SIMULATION-1/3 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1

T= 1.05Q

MCOCO SIMULATION-1/5 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1

T= 1.060

MCOCO SIMULATION-1/3 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1

MCOCO SIMULATION-1/5 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1

T= 1.100

MCOCO SIMULATION-1/5 SCALE-6 COLUMNS-WITH CORE BARREL PLATES-MODEL 1

MCOCO SIMULATION-1/3 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1

T= 1.120

MCOCO SIMULATION-1/3 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1

T= 1.130

MCOCO SIMULATION-1/3 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1

T= 1.140

MCOCO SIMULATION-1/5 SCALE-6 COLUMNS-WITH CORE BARREL PLATES-MODEL 1

T= 1.150

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T= 1.160

MCOCO SIMULATION-1/3 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1

MCOCO SIMULATION-1/3 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1

MCOCO SIMULATION-1/5 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1

T= 1.190

MCOCO SIMULATION-1/5 SCALE-8 COLUMNS-WITH CORE BARREL PLATES-MODEL 1

T= 1.200