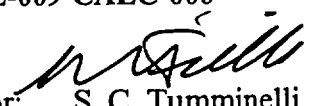




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**Appendix EPad-TH to Calculation PGE-009-CALC-006**

Originator:  S. C. Tumminelli  
Date: September 20, 2002  
Revised: March 3, 2003

**Appendix EPad-TH**

This Appendix presents the ANSYS output file documenting the equilibrium check for the constrained model thermal stress analysis. Contains the ANSYS Input file, followed by manual calculations for expected forces, followed by the ANSYS Output File.



**ANSYS Input File:**

```

/com,
/com, This routine processes load results data for the
/com, evaluation of equilibrium.
/com
/com, Load Case Results
/com
/com
/com *****
/com *****
/com
/com ***** Reactions *****
/com
/file,Pad-Th
resume
/header,on,on,on
/post1
spoint,,0,0,0
/com
/com *****
/com ***** LOAD CASE 1 *****
lcfile,1
lcase,1
eall
cmsgel,s,bot
cmsgel,a,symxy
cmsgel,a,symyz
cmsgel,a,xedge
cmsgel,a,zedge
fsum
/com
/com *****
/com ***** LOAD CASE 2 *****
lcfile,2
lcase,2
eall
cmsgel,s,bot
cmsgel,a,symxy
cmsgel,a,symyz
cmsgel,a,xedge
cmsgel,a,zedge
fsum
/com
/com *****
/com ***** LOAD CASE 3 *****
lcfile,3
lcase,3
eall
cmsgel,s,bot
cmsgel,a,symxy
cmsgel,a,symyz
cmsgel,a,xedge
cmsgel,a,zedge
fsum
/com
/com *****

```

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## Appendix EPad-TH to Calculation PGE-009-CALC-006

```
/com ***** LOAD CASE 4 *****
lcfile,4
lcase,4
eall
cmsel,s,bot
cmsel,a,symxy
cmsel,a,symyz
cmsel,a,xedge
cmsel,a,zedge
fsum
/com
/com *****
/com ***** LOAD CASE 5 *****
lcfile,5
lcase,5
eall
cmsel,s,bot
cmsel,a,symxy
cmsel,a,symyz
cmsel,a,xedge
cmsel,a,zedge
fsum
/com
/com *****
/com ***** LOAD CASE 6 *****
lcfile,6
lcase,6
eall
cmsel,s,bot
cmsel,a,symxy
cmsel,a,symyz
cmsel,a,xedge
cmsel,a,zedge
fsum
/com
/com *****
/com ***** LOAD CASE 7 *****
lcfile,7
lcase,7
eall
cmsel,s,bot
cmsel,a,symxy
cmsel,a,symyz
cmsel,a,xedge
cmsel,a,zedge
fsum
/com
/com *****
/com ***** LOAD CASE 8 *****
lcfile,8
lcase,8
eall
cmsel,s,bot
cmsel,a,symxy
cmsel,a,symyz
cmsel,a,xedge
cmsel,a,zedge
```



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**Appendix EPad-TH to Calculation PGE-009-CALC-006**

```

fsum
/com
/com *****
/com ***** LOAD CASE 9 *****
lcfile,9
lcase,9
eall
cmsel,s,bot
cmsel,a,symxy
cmsel,a,symyz
cmsel,a,xedge
cmsel,a,zedge
fsum
/com
/com *****
/com ***** LOAD CASE 10 *****
lcfile,10
lcase,10
eall
cmsel,s,bot
cmsel,a,symxy
cmsel,a,symyz
cmsel,a,xedge
cmsel,a,zedge
fsum
/com
/com *****
/com ***** LOAD CASE 11 *****
lcfile,11
lcase,11
eall
cmsel,s,bot
cmsel,a,symxy
cmsel,a,symyz
cmsel,a,xedge
cmsel,a,zedge
fsum
/com
/com *****
/com *****
/com *****
fini
/output
/exit,nosave
    
```



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**Appendix E Pad-TH to Calculation PGE-009-CALC-006**

Manual Calculation for Dead Weight:

Pad weight model for load step 1 is 90% of ¼ of the pad weight at 150 pcf:

$$W \text{ model} = 0.90 \times 0.25 \times 105 \times 68 \times 8 \times 150 = 1,927,800 \text{ lbs}$$

And the incremental weight for each subsequent load step is 19,278 lbs.

	<u>Target</u>	<u>ANSYS</u>
Thus for LS 1 W = 1,927,800	= 1,927,800	Vs 1,927,183
And for LS 2 W = 1,927,800 + 19278	= 1,947,078	Vs 1,946,455
And for LS 3 W = 1,947,078 + 19278	= 1,966,356	Vs 1,965,727
And for LS 4 W = 1,966,356 + 19278	= 1,985,634	Vs 1,984,999
And for LS 5 W = 1,985,634 + 19278	= 2,004,912	Vs 2,004,270
And for LS 6 W = 2,004,912 + 19278	= 2,024,190	Vs 2,023,542
And for LS 7 W = 2,024,190 + 19278	= 2,043,468	Vs 2,042,814
And for LS 8 W = 2,043,468 + 19278	= 2,062,746	Vs 2,062,086
And for LS 9 W = 2,062,746 + 19278	= 2,082,024	Vs 2,081,358
And for LS 10 W = 2,082,024 + 19278	= 2,101,302	Vs 2,100,630
And for LS 11 W = 2,101,302 + 19278	= 2,120,580	Vs 2,119,901



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Appendix EPad-TH to Calculation PGE-009-CALC-006

ANSYS Output File:

ANSYS/Mechanical U

```

*-----*
| W E L C O M E   T O   T H E   A N S Y S   P R O G R A M |
*-----*

```

\*\*\*\*\*

\* ANSYS 6.1 NOTICES \*

\*\*\*\*\*

\* \*

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\* and 227.7202-3(a)(1995), DFARS 252.227-7013(c)(1)(ii) (OCT \*

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Appendix EPad-TH to Calculation PGE-009-CALC-006

\*\*\*\*\*

Completing ANSYS Load Process.

\*\*\*\*\* ANSYS COMMAND LINE ARGUMENTS \*\*\*\*\*

INITIAL JOBNAME = PAD-TH  
BATCH MODE REQUESTED = LIST  
MEMORY REQUESTED (MB) = 800  
DATABASE SIZE REQUESTED (MB) = 250

\*\*\* WARNING \*\*\* CP= 0.210 TIME= 17:37:31  
Use of the -M switch is no longer recommended for normal ANSYS use.  
ANSYS now dynamically allocates memory as needed. Only use the -M  
switch if you are certain that you need to do so.

PARAMETER STATUS- ( 1 PARAMETERS DEFINED)  
(INCLUDING 1 INTERNAL PARAMETERS)

00245050 VERSION=INTEL NT RELEASE= 6.1 UP20020321  
CURRENT JOBNAME=PAD-TH 17:37:31 JUN 10, 2002 CP= 0.210

```

1 /com,
2 /com, This routine processes load results data for the
3 /com, evaluation of equilibrium.
4 /com
5 /com, Load Case Results
6 /com
7 /com
8 /com *****
9 /com *****
10 /com
11 /com ***** Reactions *****
12 /com
13 /file,Pad-Th
14 resume
15 /header,on,on,on
16 /post1
17 spoint,,0,0,0
18 /com
19 /com *****
20 /com ***** LOAD CASE 1 *****
21 lcfile,1
22 lcase,1
23 eall
24 cmsel,s,bot
25 cmsel,a,symxy
26 cmsel,a,symyz
27 cmsel,a,xedge
28 cmsel,a,zedge
29 fsum
30 /com
31 /com *****
32 /com ***** LOAD CASE 2 *****
33 lcfile,2
34 lcase,2

```



```

35 eall
36 cmsel,s,bot
37 cmsel,a,symxy
38 cmsel,a,symyz
39 cmsel,a,xedge
40 cmsel,a,zedge
41 fsum
42 /com
43 /com *****
44 /com ***** LOAD CASE 3 *****
45 lcfile,3
46 lcase,3
47 eall
48 cmsel,s,bot
49 cmsel,a,symxy
50 cmsel,a,symyz
51 cmsel,a,xedge
52 cmsel,a,zedge
53 fsum
54 /com
55 /com *****
56 /com ***** LOAD CASE 4 *****
57 lcfile,4
58 lcase,4
59 eall
60 cmsel,s,bot
61 cmsel,a,symxy
62 cmsel,a,symyz
63 cmsel,a,xedge
64 cmsel,a,zedge
65 fsum
66 /com
67 /com *****
68 /com ***** LOAD CASE 5 *****
69 lcfile,5
70 lcase,5
71 eall
72 cmsel,s,bot
73 cmsel,a,symxy
74 cmsel,a,symyz
75 cmsel,a,xedge
76 cmsel,a,zedge
77 fsum
78 /com
79 /com *****
80 /com ***** LOAD CASE 6 *****
81 lcfile,6
82 lcase,6
83 eall
84 cmsel,s,bot
85 cmsel,a,symxy
86 cmsel,a,symyz
87 cmsel,a,xedge
88 cmsel,a,zedge
89 fsum
90 /com
91 /com *****

```





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## Appendix E Pad-TH to Calculation PGE-009-CALC-006

```
92 /com ***** LOAD CASE 7 *****
93 lcfile,7
94 lcase,7
95 eall
96 cmsel,s,bot
97 cmsel,a,symxy
98 cmsel,a,symyz
99 cmsel,a,xedge
100 cmsel,a,zedge
101 fsum
102 /com
103 /com *****
104 /com ***** LOAD CASE 8 *****
105 lcfile,8
106 lcase,8
107 eall
108 cmsel,s,bot
109 cmsel,a,symxy
110 cmsel,a,symyz
111 cmsel,a,xedge
112 cmsel,a,zedge
113 fsum
114 /com
115 /com *****
116 /com ***** LOAD CASE 9 *****
117 lcfile,9
118 lcase,9
119 eall
120 cmsel,s,bot
121 cmsel,a,symxy
122 cmsel,a,symyz
123 cmsel,a,xedge
124 cmsel,a,zedge
125 fsum
126 /com
127 /com *****
128 /com ***** LOAD CASE 10 *****
129 lcfile,10
130 lcase,10
131 eall
132 cmsel,s,bot
133 cmsel,a,symxy
134 cmsel,a,symyz
135 cmsel,a,xedge
136 cmsel,a,zedge
137 fsum
138 /com
139 /com *****
140 /com ***** LOAD CASE 11 *****
141 lcfile,11
142 lcase,11
143 eall
144 cmsel,s,bot
145 cmsel,a,symxy
146 cmsel,a,symyz
147 cmsel,a,xedge
148 cmsel,a,zedge
```



```

149 fsum
150 /com
151 /com *****
152 /com *****
153 /com
154 fini
155 /output
156 /exit,nosave
157
158
159
160

```

RUN SETUP PROCEDURE FROM FILE= C:\Program Files\Ansys Inc\ANSYS61\docu\start61.ans

/INPUT FILE= C:\Program Files\Ansys Inc\ANSYS61\docu\start61.ans LINE= 0

This routine processes load results data for the evaluation of equilibrium.

Load Case Results

```

*****
*****

```

\*\*\*\*\* Reactions \*\*\*\*\*

CURRENT JOBNAME REDEFINED AS Pad-Th

RESUME ANSYS DATA FROM FILE NAME=Pad-Th.db

\*\*\* ANSYS GLOBAL STATUS \*\*\*

```

TITLE = DELTA T 6.125 TO 7.875 DAYS
ANALYSIS TYPE = STATIC (STEADY-STATE)
NUMBER OF ELEMENT TYPES = 5
  8812 ELEMENTS CURRENTLY SELECTED.  MAX ELEMENT NUMBER = 9341
 10212 NODES CURRENTLY SELECTED.    MAX NODE NUMBER = 10212
  166 KEYPOINTS CURRENTLY SELECTED. MAX KEYPOINT NUMBER = 166
  339 LINES CURRENTLY SELECTED.    MAX LINE NUMBER = 339
   2 AREAS CURRENTLY SELECTED.    MAX AREA NUMBER = 224
   48 VOLUMES CURRENTLY SELECTED.  MAX VOL. NUMBER = 48
  22 COMPONENTS CURRENTLY DEFINED
MAXIMUM LINEAR PROPERTY NUMBER = 12
MAXIMUM REAL CONSTANT SET NUMBER = 1
ACTIVE COORDINATE SYSTEM = 0 (CARTESIAN)
MAXIMUM COUPLED D.O.F. SET NUMBER = 367
NUMBER OF SPECIFIED CONSTRAINTS = 4657
CURRENT LOAD CASE = 0 OF 0
LOAD SET = 11
SUBSTEP = 1
TIME/FREQ = 11.000

```

INITIAL JOBNAME = PAD-TH



Appendix EPad-TH to Calculation PGE-009-CALC-006

CURRENT JOBNAME = Pad-Th

PRINT HEADER
PRINT SUBTITLE(S)
PRINT LOAD STEP ID
DO NOT PRINT NOTE LINE(S)
PRINT COLUMN HEADER LABELS
DO NOT PRINT REPORT TOTALS

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:37:34 JUN 10, 2002 CP= 0.761

DELTA T 6.125 TO 7.875 DAYS

\*\*\*\*\* ANSYS RESULTS INTERPRETATION (POST1) \*\*\*\*\*

\*\*\* WARNING \*\*\* CP= 0.761 TIME= 17:37:34
The current solution may have been produced using different model or boundary condition data than is currently stored. POST1 results may be erroneous unless you perform a new solution using the stored data.

\*\*\* NOTE \*\*\* CP= 0.761 TIME= 17:37:34
Reading results into the database (SET command) will update the current displacement and force boundary conditions in the database with the values from the results file for that load set. Note that any subsequent solutions will use these values unless action is taken to either SAVE the current values or not overwrite them (/EXIT,NOSAVE).

\*\*\* NOTE \*\*\* CP= 0.761 TIME= 17:37:34
The force summations will be in global cartesian when the summation point is at the origin.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 0.00000 0.00000

\*\*\*\*\*
\*\*\*\*\* LOAD CASE 1 \*\*\*\*\*

LOAD CASE 1 IS LOAD STEP 1 SUBSTEP 1 COMPLEX= 0
FILE= Pad-Th.101
PAD RESPONSE AT END OF 0.25 DAYS

COPY LOAD CASE 1 FROM FILE TO DATABASE

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

SELECT COMPONENT BOT
ALSO SELECT COMPONENT SYMX
ALSO SELECT COMPONENT SYMZ



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**Appendix EPad-TH to Calculation PGE-009-CALC-006**

ALSO SELECT COMPONENT XEDGE

ALSO SELECT COMPONENT ZEDGE

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*  
 FX = 0.1395398E-07  
 FY = -1927183.  
 FZ = 0.9403266E-08  
 MX = 0.6070627E+09  
 MY = 0.3801775E-05  
 MZ = -0.3931454E+09

SUMMATION POINT= 0.0000 0.0000 0.0000

\*\*\*\*\*  
 \*\*\*\*\* LOAD CASE 2 \*\*\*\*\*

LOAD CASE 2 IS LOAD STEP 2 SUBSTEP 1 COMPLEX= 0  
 FILE= Pad-Th.102  
 PAD RESPONSE AT END OF 0.50 DAYS

COPY LOAD CASE 2 FROM FILE TO DATABASE

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

SELECT COMPONENT BOT

ALSO SELECT COMPONENT SYMX

ALSO SELECT COMPONENT SYMYZ

ALSO SELECT COMPONENT XEDGE

ALSO SELECT COMPONENT ZEDGE

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*  
 FX = 0.1428592E-06  
 FY = -1946455.  
 FZ = 0.5142886E-07  
 MX = 0.6131333E+09  
 MY = 0.3498181E-04  
 MZ = -0.3970768E+09

SUMMATION POINT= 0.0000 0.0000 0.0000

\*\*\*\*\*  
 \*\*\*\*\* LOAD CASE 3 \*\*\*\*\*

LOAD CASE 3 IS LOAD STEP 3 SUBSTEP 1 COMPLEX= 0  
 FILE= Pad-Th.103  
 PAD RESPONSE AT END OF 0.625 DAYS

COPY LOAD CASE 3 FROM FILE TO DATABASE

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.



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Appendix E Pad-TH to Calculation PGE-009-CALC-006

SELECT COMPONENT BOT
ALSO SELECT COMPONENT SYMXY
ALSO SELECT COMPONENT SYMYZ
ALSO SELECT COMPONENT XEDGE
ALSO SELECT COMPONENT ZEDGE

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*
FX = 0.3840391E-03
FY = -1965727.
FZ = 0.2427879E-03
MX = 0.6192039E+09
MY = 0.7231490E-01
MZ = -0.4010083E+09

SUMMATION POINT= 0.0000 0.0000 0.0000

\*\*\*\*\*
\*\*\*\*\* LOAD CASE 4 \*\*\*\*\*

LOAD CASE 4 IS LOAD STEP 4 SUBSTEP 1 COMPLEX= 0
FILE= Pad-Th.104
PAD RESPONSE AT END OF 1.125 DAYS

COPY LOAD CASE 4 FROM FILE TO DATABASE

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

SELECT COMPONENT BOT
ALSO SELECT COMPONENT SYMXY
ALSO SELECT COMPONENT SYMYZ
ALSO SELECT COMPONENT XEDGE
ALSO SELECT COMPONENT ZEDGE

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*
FX = 0.3834437E-03
FY = -1984999.
FZ = 0.2426280E-03
MX = 0.6252746E+09
MY = 0.7220342E-01
MZ = -0.4049397E+09

SUMMATION POINT= 0.0000 0.0000 0.0000

\*\*\*\*\*
\*\*\*\*\* LOAD CASE 5 \*\*\*\*\*

LOAD CASE 5 IS LOAD STEP 5 SUBSTEP 1 COMPLEX= 0



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Appendix EPad-TH to Calculation PGE-009-CALC-006

FILE= Pad-Th.105  
PAD RESPONSE AT END OF 1.625 DAYS

COPY LOAD CASE 5 FROM FILE TO DATABASE

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

SELECT COMPONENT BOT

ALSO SELECT COMPONENT SYMX

ALSO SELECT COMPONENT SYMYZ

ALSO SELECT COMPONENT XEDGE

ALSO SELECT COMPONENT ZEDGE

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = 0.3834533E-03  
FY = -2004270.  
FZ = 0.2426287E-03  
MX = 0.6313452E+09  
MY = 0.7219695E-01  
MZ = -0.4088712E+09

SUMMATION POINT= 0.0000 0.0000 0.0000

\*\*\*\*\*  
\*\*\*\*\* LOAD CASE 6 \*\*\*\*\*

LOAD CASE 6 IS LOAD STEP 6 SUBSTEP 1 COMPLEX= 0  
FILE= Pad-Th.106  
PAD RESPONSE AT END OF 2.125 DAYS

COPY LOAD CASE 6 FROM FILE TO DATABASE

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

SELECT COMPONENT BOT

ALSO SELECT COMPONENT SYMX

ALSO SELECT COMPONENT SYMYZ

ALSO SELECT COMPONENT XEDGE

ALSO SELECT COMPONENT ZEDGE

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = 0.3833923E-03  
FY = -2023542.  
FZ = 0.2426693E-03  
MX = 0.6374158E+09  
MY = 0.7219889E-01  
MZ = -0.4128026E+09



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Appendix EPad-TH to Calculation PGE-009-CALC-006

SUMMATION POINT= 0.0000 0.0000 0.0000

\*\*\*\*\*

\*\*\*\*\* LOAD CASE 7 \*\*\*\*\*

LOAD CASE 7 IS LOAD STEP 7 SUBSTEP 1 COMPLEX= 0  
FILE= Pad-Th.107  
PAD RESPONSE AT END OF 2.375 DAYS

COPY LOAD CASE 7 FROM FILE TO DATABASE

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

SELECT COMPONENT BOT

ALSO SELECT COMPONENT SYMX

ALSO SELECT COMPONENT SYMYZ

ALSO SELECT COMPONENT XEDGE

ALSO SELECT COMPONENT ZEDGE

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = 0.3834591E-03  
FY = -2042814.  
FZ = 0.2426448E-03  
MX = 0.6434864E+09  
MY = 0.7220398E-01  
MZ = -0.4167341E+09

SUMMATION POINT= 0.0000 0.0000 0.0000

\*\*\*\*\*

\*\*\*\*\* LOAD CASE 8 \*\*\*\*\*

LOAD CASE 8 IS LOAD STEP 8 SUBSTEP 1 COMPLEX= 0  
FILE= Pad-Th.108  
PAD RESPONSE AT END OF 3.125 DAYS

COPY LOAD CASE 8 FROM FILE TO DATABASE

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

SELECT COMPONENT BOT

ALSO SELECT COMPONENT SYMX

ALSO SELECT COMPONENT SYMYZ

ALSO SELECT COMPONENT XEDGE

ALSO SELECT COMPONENT ZEDGE



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**Appendix EPad-TH to Calculation PGE-009-CALC-006**

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = 0.3834514E-03  
 FY = -2062086.  
 FZ = 0.2426424E-03  
 MX = 0.6495571E+09  
 MY = 0.7219778E-01  
 MZ = -0.4206655E+09

SUMMATION POINT= 0.0000 0.0000 0.0000

\*\*\*\*\*

\*\*\*\*\* LOAD CASE 9 \*\*\*\*\*

LOAD CASE 9 IS LOAD STEP 9 SUBSTEP 1 COMPLEX= 0  
 FILE= Pad-Th.109  
 PAD RESPONSE AT END OF 4.125 DAYS

COPY LOAD CASE 9 FROM FILE TO DATABASE

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

SELECT COMPONENT BOT  
 ALSO SELECT COMPONENT SYMX  
 ALSO SELECT COMPONENT SYMYZ  
 ALSO SELECT COMPONENT XEDGE  
 ALSO SELECT COMPONENT ZEDGE

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = 0.3834334E-03  
 FY = -2081358.  
 FZ = 0.2426677E-03  
 MX = 0.6556277E+09  
 MY = 0.7219028E-01  
 MZ = -0.4245970E+09

SUMMATION POINT= 0.0000 0.0000 0.0000

\*\*\*\*\*

\*\*\*\*\* LOAD CASE 10 \*\*\*\*\*

LOAD CASE 10 IS LOAD STEP 10 SUBSTEP 1 COMPLEX= 0  
 FILE= Pad-Th.110  
 PAD RESPONSE AT END OF 6.125 DAYS

COPY LOAD CASE 10 FROM FILE TO DATABASE

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

SELECT COMPONENT BOT  
 ALSO SELECT COMPONENT SYMX





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**Appendix EPad-TH to Calculation PGE-009-CALC-006**

ALSO SELECT COMPONENT SYMYZ

ALSO SELECT COMPONENT XEDGE

ALSO SELECT COMPONENT ZEDGE

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = 0.3835999E-03

FY = -2100630.

FZ = 0.2424051E-03

MX = 0.6616983E+09

MY = 0.7232303E-01

MZ = -0.4285284E+09

SUMMATION POINT= 0.0000 0.0000 0.0000

\*\*\*\*\*

\*\*\*\*\* LOAD CASE 11 \*\*\*\*\*

LOAD CASE 11 IS LOAD STEP 11 SUBSTEP 1 COMPLEX= 0

FILE= Pad-Th.111

PAD RESPONSE AT END OF 7.875 DAYS

COPY LOAD CASE 11 FROM FILE TO DATABASE

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

SELECT COMPONENT BOT

ALSO SELECT COMPONENT SYMYX

ALSO SELECT COMPONENT SYMYZ

ALSO SELECT COMPONENT XEDGE

ALSO SELECT COMPONENT ZEDGE

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = 0.3835706E-03

FY = -2119901.

FZ = 0.2423489E-03

MX = 0.6677689E+09

MY = 0.7232273E-01

MZ = -0.4324599E+09

SUMMATION POINT= 0.0000 0.0000 0.0000

\*\*\*\*\*

\*\*\*\*\*

EXIT THE ANSYS POST1 DATABASE PROCESSOR

\*\*\*\*\* ROUTINE COMPLETED \*\*\*\*\* CP = 7.040



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Appendix EPad-TH to Calculation PGE-009-CALC-006

EXIT ANSYS WITHOUT SAVING DATABASE

NUMBER OF WARNING MESSAGES ENCOUNTERED= 2  
 NUMBER OF ERROR MESSAGES ENCOUNTERED= 0

ANSYS RUN COMPLETED			
Release 6.1	UP20020321	INTEL NT	
Maximum Scratch Memory Used	=	1025420 Words	3.912 MB
CP Time (sec) =	7.050	Time =	17:37:41
Elapsed Time (sec) =	11.000	Date =	06/10/2002



**ENERCON  
SERVICES, INC.**

**Appendix DPad-TH to Calculation PGE-009-CALC-006**

*S. C. Tumminelli*  
Originator: S. C. Tumminelli  
Date: September 20, 2002  
Revised: March 3, 2003

**Appendix DPad-TH**

This Appendix presents the ANSYS output file documenting the pad vertical displacements for the constrained model thermal stress analysis.



ENERCON SERVICES, INC.

Appendix DPad-TH to Calculation PGE-009-CALC-006

ANSYS/Mechanical U

WELCOME TO THE ANSYS PROGRAM

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Appendix DPad-TH to Calculation PGE-009-CALC-006

Completing ANSYS Load Process.

\*\*\*\*\* ANSYS COMMAND LINE ARGUMENTS \*\*\*\*\*

INITIAL JOBNAME = PAD-TH
BATCH MODE REQUESTED = LIST
MEMORY REQUESTED (MB) = 800
DATABASE SIZE REQUESTED (MB) = 250

\*\*\* WARNING \*\*\* CP= 0.220 TIME= 17:38:49
Use of the -M switch is no longer recommended for normal ANSYS use.
ANSYS now dynamically allocates memory as needed. Only use the -M
switch if you are certain that you need to do so.

PARAMETER STATUS- ( 1 PARAMETERS DEFINED)
(INCLUDING 1 INTERNAL PARAMETERS)

00245050 VERSION=INTEL NT RELEASE= 6.1 UP20020321
CURRENT JOBNAME=PAD-TH 17:38:49 JUN 10, 2002 CP= 0.220

1 /COM
2 /COM DISPLACEMENT DATA SORTED AND PRINTED BY LOAD CASE
3 /COM
4 /FILE, Pad-Th
5 RESUME
6 /header, on, off, off, off, on, off
7 /POST1
8 /COM
9 /COM
10 EALL
11 NALL
12 /COM
13 /COM =====
14 /COM ===== LCASE 1 =====
15 /COM
16 LCFILE,1
17 LCASE,1
18 /COM
19 /COM =====
20 /COM ===== VALUES OF Uy =====
21 /COM
22 NSEL,S,NODE,,113,133,20
23 PRNSOL,U,Y
24 /COM
25 /COM =====
26 /COM ===== LCASE 2 =====
27 /COM
28 LCFILE,2
29 LCASE,2
30 /COM
31 /COM =====
32 /COM ===== VALUES OF Uy =====
33 /COM
34 PRNSOL,U,Y
35 /COM
36 /COM =====



```

37 /COM ===== LCASE 3 =====
38 /COM
39 LCFILE, 3
40 LCASE, 3
41 /COM
42 /COM =====
43 /COM ===== VALUES OF Uy =====
44 /COM
45 PRNSOL, U, Y
46 /COM
47 /COM =====
48 /COM ===== LCASE 4 =====
49 /COM
50 LCFILE, 4
51 LCASE, 4
52 /COM
53 /COM =====
54 /COM ===== VALUES OF Uy =====
55 /COM
56 PRNSOL, U, Y
57 /COM
58 /COM =====
59 /COM ===== LCASE 5 =====
60 /COM
61 LCFILE, 5
62 LCASE, 5
63 /COM
64 /COM =====
65 /COM ===== VALUES OF Uy =====
66 /COM
67 PRNSOL, U, Y
68 /COM
69 /COM =====
70 /COM ===== LCASE 6 =====
71 /COM
72 LCFILE, 6
73 LCASE, 6
74 /COM
75 /COM =====
76 /COM ===== VALUES OF Uy =====
77 /COM
78 PRNSOL, U, Y
79 /COM
80 /COM =====
81 /COM ===== LCASE 7 =====
82 /COM
83 LCFILE, 7
84 LCASE, 7
85 /COM
86 /COM =====
87 /COM ===== VALUES OF Uy =====
88 /COM
89 PRNSOL, U, Y
90 /COM
91 /COM =====
92 /COM ===== LCASE 8 =====
93 /COM

```



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**Appendix DPad-TH to Calculation PGE-009-CALC-006**

```

94 LCFILE,8
95 LCASE,8
96 /COM
97 /COM =====
98 /COM ===== VALUES OF Uy =====
99 /COM
100 PRNSOL,U,Y
101 /COM
102 /COM =====
103 /COM ===== LCASE 9 =====
104 /COM
105 LCFILE,9
106 LCASE,9
107 /COM
108 /COM =====
109 /COM ===== VALUES OF Uy =====
110 /COM
111 PRNSOL,U,Y
112 /COM
113 /COM =====
114 /COM ===== LCASE 10 =====
115 /COM
116 LCFILE,10
117 LCASE,10
118 /COM
119 /COM =====
120 /COM ===== VALUES OF Uy =====
121 /COM
122 PRNSOL,U,Y
123 /COM
124 /COM =====
125 /COM ===== LCASE 11 =====
126 /COM
127 LCFILE,11
128 LCASE,11
129 /COM
130 /COM =====
131 /COM ===== VALUES OF Uy =====
132 /COM
133 PRNSOL,U,Y
134 /COM
135 /COM =====
136 /COM =====
137 /COM
138 FINI
139 /EXIT,NOSAVE
140
141

```

RUN SETUP PROCEDURE FROM FILE= C:\Program Files\Ansys  
Inc\ANSYS61\docu\start61.ans

/INPUT FILE= C:\Program Files\Ansys Inc\ANSYS61\docu\start61.ans LINE= 0

DISPLACEMENT DATA SORTED AND PRINTED BY LOAD CASE



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**Appendix DPad-TH to Calculation PGE-009-CALC-006**

CURRENT JOBNAME REDEFINED AS Pad-Th

RESUME ANSYS DATA FROM FILE NAME=Pad-Th.db

\*\*\* ANSYS GLOBAL STATUS \*\*\*

TITLE = DELTA T 6.125 TO 7.875 DAYS  
 ANALYSIS TYPE = STATIC (STEADY-STATE)  
 NUMBER OF ELEMENT TYPES = 5  
 8812 ELEMENTS CURRENTLY SELECTED. MAX ELEMENT NUMBER = 9341  
 10212 NODES CURRENTLY SELECTED. MAX NODE NUMBER = 10212  
 166 KEYPOINTS CURRENTLY SELECTED. MAX KEYPOINT NUMBER = 166  
 339 LINES CURRENTLY SELECTED. MAX LINE NUMBER = 339  
 2 AREAS CURRENTLY SELECTED. MAX AREA NUMBER = 224  
 48 VOLUMES CURRENTLY SELECTED. MAX VOL. NUMBER = 48  
 22 COMPONENTS CURRENTLY DEFINED  
 MAXIMUM LINEAR PROPERTY NUMBER = 12  
 MAXIMUM REAL CONSTANT SET NUMBER = 1  
 ACTIVE COORDINATE SYSTEM = 0 (CARTESIAN)  
 MAXIMUM COUPLED D.O.F. SET NUMBER = 367  
 NUMBER OF SPECIFIED CONSTRAINTS = 4657  
 CURRENT LOAD CASE = 0 OF 0  
 LOAD SET = 11  
 SUBSTEP = 1  
 TIME/FREQ = 11.000

INITIAL JOBNAME = PAD-TH  
 CURRENT JOBNAME = Pad-Th

PRINT HEADER

DO NOT PRINT SUBTITLE(S)  
 DO NOT PRINT LOAD STEP ID  
 DO NOT PRINT NOTE LINE(S)  
 PRINT COLUMN HEADER LABELS  
 DO NOT PRINT REPORT TOTALS

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050 VERSION=INTEL NT 17:38:50 JUN 10, 2002 CP= 0.701

DELTA T 6.125 TO 7.875 DAYS

\*\*\*\*\* ANSYS RESULTS INTERPRETATION (POST1) \*\*\*\*\*

\*\*\* WARNING \*\*\* CP= 0.701 TIME= 17:38:50  
 The current solution may have been produced using different model or  
 boundary condition data than is currently stored. POST1 results may  
 be erroneous unless you perform a new solution using the stored data.

\*\*\* NOTE \*\*\* CP= 0.701 TIME= 17:38:50  
 Reading results into the database (SET command) will update the current  
 displacement and force boundary conditions in the database with the  
 values from the results file for that load set. Note that any  
 subsequent solutions will use these values unless action is taken to





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**Appendix DPad-TH to Calculation PGE-009-CALC-006**

either SAVE the current values or not overwrite them (/EXIT,NOSAVE).

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

10212 NODES (OF 10212 DEFINED) SELECTED BY NALL COMMAND.

=====  
===== LCASE 1 =====

LOAD CASE 1 IS LOAD STEP 1 SUBSTEP 1 COMPLEX= 0  
FILE= Pad-Th.101  
PAD RESPONSE AT END OF 0.25 DAYS

COPY LOAD CASE 1 FROM FILE TO DATABASE

=====  
===== VALUES OF Uy =====

SELECT FOR ITEM=NODE COMPONENT=  
IN RANGE 113 TO 133 STEP 20

2 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

PRINT U NODAL SOLUTION PER NODE  
1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
ANSYS/Mechanical U  
00245050 VERSION=INTEL NT 17:38:51 JUN 10, 2002 CP= 1.182

PAD RESPONSE AT END OF 0.25 DAYS

NODE	UY
113	0.82439E-02
133	0.22248E-02

=====  
===== LCASE 2 =====

LOAD CASE 2 IS LOAD STEP 2 SUBSTEP 1 COMPLEX= 0  
FILE= Pad-Th.102  
PAD RESPONSE AT END OF 0.50 DAYS

COPY LOAD CASE 2 FROM FILE TO DATABASE

=====  
===== VALUES OF Uy =====



ENERCON SERVICES, INC.

Appendix DPad-TH to Calculation PGE-009-CALC-006

PRINT U NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:38:51 JUN 10, 2002 CP= 1.692

PAD RESPONSE AT END OF 0.50 DAYS

NODE UY
113 0.34784
133 0.42626E-02

=====  
===== LCASE 3 =====

LOAD CASE 3 IS LOAD STEP 3 SUBSTEP 1 COMPLEX= 0
FILE= Pad-Th.103
PAD RESPONSE AT END OF 0.625 DAYS

COPY LOAD CASE 3 FROM FILE TO DATABASE

=====  
===== VALUES OF Uy =====

PRINT U NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:38:52 JUN 10, 2002 CP= 2.183

PAD RESPONSE AT END OF 0.625 DAYS

NODE UY
113 0.49862
133 0.51626E-02

=====  
===== LCASE 4 =====

LOAD CASE 4 IS LOAD STEP 4 SUBSTEP 1 COMPLEX= 0
FILE= Pad-Th.104
PAD RESPONSE AT END OF 1.125 DAYS

COPY LOAD CASE 4 FROM FILE TO DATABASE

=====  
===== VALUES OF Uy =====



PRINT U NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:38:52 JUN 10, 2002 CP= 2.624

PAD RESPONSE AT END OF 1.125 DAYS

NODE UY
113 0.59631
133 0.82396E-02

=====  
===== LCASE 5 =====

LOAD CASE 5 IS LOAD STEP 5 SUBSTEP 1 COMPLEX= 0
FILE= Pad-Th.105
PAD RESPONSE AT END OF 1.625 DAYS

COPY LOAD CASE 5 FROM FILE TO DATABASE

=====  
===== VALUES OF Uy =====

PRINT U NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:38:53 JUN 10, 2002 CP= 3.104

PAD RESPONSE AT END OF 1.625 DAYS

NODE UY
113 0.59842
133 0.10350E-01

=====  
===== LCASE 6 =====

LOAD CASE 6 IS LOAD STEP 6 SUBSTEP 1 COMPLEX= 0
FILE= Pad-Th.106
PAD RESPONSE AT END OF 2.125 DAYS

COPY LOAD CASE 6 FROM FILE TO DATABASE

=====  
===== VALUES OF Uy =====



ENERCON SERVICES, INC.

Appendix DPad-TH to Calculation PGE-009-CALC-006

PRINT U NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:38:53 JUN 10, 2002 CP= 3.525

PAD RESPONSE AT END OF 2.125 DAYS

NODE UY
113 0.59971
133 0.11648E-01

=====  
===== LCASE 7 =====

LOAD CASE 7 IS LOAD STEP 7 SUBSTEP 1 COMPLEX= 0
FILE= Pad-Th.107
PAD RESPONSE AT END OF 2.375 DAYS

COPY LOAD CASE 7 FROM FILE TO DATABASE

=====  
===== VALUES OF Uy =====

PRINT U NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:38:54 JUN 10, 2002 CP= 4.036

PAD RESPONSE AT END OF 2.375 DAYS

NODE UY
113 0.60012
133 0.12061E-01

=====  
===== LCASE 8 =====

LOAD CASE 8 IS LOAD STEP 8 SUBSTEP 1 COMPLEX= 0
FILE= Pad-Th.108
PAD RESPONSE AT END OF 3.125 DAYS

COPY LOAD CASE 8 FROM FILE TO DATABASE

=====



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Appendix DPad-TH to Calculation PGE-009-CALC-006

===== VALUES OF Uy =====

PRINT U NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050 VERSION=INTEL NT 17:38:54 JUN 10, 2002 CP= 4.527

PAD RESPONSE AT END OF 3.125 DAYS

NODE	UY
113	0.60126
133	0.13198E-01

=====

===== LCASE 9 =====

LOAD CASE 9 IS LOAD STEP 9 SUBSTEP 1 COMPLEX= 0  
 FILE= Pad-Th.109  
 PAD RESPONSE AT END OF 4.125 DAYS

COPY LOAD CASE 9 FROM FILE TO DATABASE

=====

===== VALUES OF Uy =====

PRINT U NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050 VERSION=INTEL NT 17:38:55 JUN 10, 2002 CP= 4.977

PAD RESPONSE AT END OF 4.125 DAYS

NODE	UY
113	0.60187
133	0.13814E-01

=====

===== LCASE 10 =====

LOAD CASE 10 IS LOAD STEP 10 SUBSTEP 1 COMPLEX= 0  
 FILE= Pad-Th.110  
 PAD RESPONSE AT END OF 6.125 DAYS

COPY LOAD CASE 10 FROM FILE TO DATABASE



ENERCON SERVICES, INC.

Appendix DPad-TH to Calculation PGE-009-CALC-006

=====  
VALUES OF Uy

PRINT U NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
ANSYS/Mechanical U  
00245050 VERSION=INTEL NT 17:38:55 JUN 10, 2002 CP= 5.478

PAD RESPONSE AT END OF 6.125 DAYS

NODE UY  
113 0.60181  
133 0.13761E-01

=====  
LCASE 11

LOAD CASE 11 IS LOAD STEP 11 SUBSTEP 1 COMPLEX= 0  
FILE= Pad-Th.111  
PAD RESPONSE AT END OF 7.875 DAYS

COPY LOAD CASE 11 FROM FILE TO DATABASE

=====  
VALUES OF Uy

PRINT U NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
ANSYS/Mechanical U  
00245050 VERSION=INTEL NT 17:38:56 JUN 10, 2002 CP= 5.919

PAD RESPONSE AT END OF 7.875 DAYS

NODE UY  
113 0.60082  
133 0.12766E-01

=====  
=====

EXIT THE ANSYS POST1 DATABASE PROCESSOR

\*\*\*\*\* ROUTINE COMPLETED \*\*\*\*\* CP = 5.929



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**Appendix DPad-TH to Calculation PGE-009-CALC-006**

EXIT ANSYS WITHOUT SAVING DATABASE

NUMBER OF WARNING MESSAGES ENCOUNTERED= 2  
 NUMBER OF ERROR MESSAGES ENCOUNTERED= 0

```

*-----*
                ANSYS RUN COMPLETED
*-----*
      Release 6.1                UP20020321                INTEL NT
*-----*
Maximum Scratch Memory Used      =      1025420 Words      3.912 MB
*-----*
      CP Time      (sec) =      5.929      Time = 17:38:56
      Elapsed Time (sec) =      8.000      Date  = 06/10/2002
*-----*
    
```



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**Appendix SPad-TH to Calculation PGE-009-CALC-006**

Originator: *S. C. Tumminelli*  
Date: September 20, 2002  
Revised: March 3, 2003

**Appendix SPad-TH**

This Appendix presents the ANSYS output file documenting the pad stress response for the constrained model thermal stress analysis.





ENERCON SERVICES, INC.

Appendix SPad-TH to Calculation PGE-009-CALC-006

ANSYS/Mechanical U

WELCOME TO THE ANSYS PROGRAM

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**Appendix SPad-TH to Calculation PGE-009-CALC-006**

Completing ANSYS Load Process.

\*\*\*\*\* ANSYS COMMAND LINE ARGUMENTS \*\*\*\*\*

INITIAL JOBNAME = PAD-TH  
 BATCH MODE REQUESTED = LIST  
 MEMORY REQUESTED (MB) = 800  
 DATABASE SIZE REQUESTED (MB) = 250

\*\*\* WARNING \*\*\* CP= 0.230 TIME= 17:39:45  
 Use of the -M switch is no longer recommended for normal ANSYS use.  
 ANSYS now dynamically allocates memory as needed. Only use the -M  
 switch if you are certain that you need to do so.

PARAMETER STATUS- ( 1 PARAMETERS DEFINED)  
 (INCLUDING 1 INTERNAL PARAMETERS)

00245050 VERSION=INTEL NT RELEASE= 6.1 UP20020321  
 CURRENT JOBNAME=PAD-TH 17:39:45 JUN 10, 2002 CP= 0.230

```

1 /COM
2 /COM
3 /COM STRESS DATA SORTED AND PRINTED BY LOAD CASE
4 /COM
5 /COM
6 /COM
7 /COM THIS ROUTINE SORTS AND PRINTS STRESS DATA BY LOAD CASE
8 /COM FIRST SX, SZ, S1 (MAX) AND S3 (MIN)
9 /COM
10 /COM
11 /file,Pad-Th
12 resume
13 /header,on,off,off,off,on,off
14 /post1
15 /COM
16 EALL
17 NALL
18 /COM
19 /COM =====
20 /COM =====
21 /COM =====
22 /COM ===== LCASE 1 =====
23 /COM
24 LCFILE,1
25 LCASE,1
26 ESEL,TYPE,2
27 NELEM
28 /COM
29 /COM =====
30 /COM ===== MAXIMUM VALUES OF SX =====
31 /COM
32 NSORT,S,X,0,0,2,SEL
33 PRNSOL,S
34 NUSORT
35 /COM
    
```



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Appendix SPad-TH to Calculation PGE-009-CALC-006

```
36 /COM =====
37 /COM ===== MINIMUM VALUES OF SX =====
38 /COM
39 NSORT,S,X,1,0,2,SEL
40 PRNSOL,S
41 NUSORT
42 /COM
43 /COM =====
44 /COM ===== MAXIMUM VALUES OF SZ =====
45 /COM
46 NSORT,S,Z,0,0,2,SEL
47 PRNSOL,S
48 NUSORT
49 /COM
50 /COM =====
51 /COM ===== MINIMUM VALUES OF SZ =====
52 /COM
53 NSORT,S,Z,1,0,2,SEL
54 PRNSOL,S
55 /COM
56 /COM
57 /COM =====
58 /COM ===== MAXIMUM VALUES OF S1 =====
59 /COM
60 NSORT,S,1,0,0,2,SEL
61 PRNSOL,S,PRIN
62 NUSORT
63 /COM
64 /COM =====
65 /COM ===== MINIMUM VALUES OF S3 =====
66 /COM
67 NSORT,S,3,1,0,2,SEL
68 PRNSOL,S,PRIN
69 NUSORT
70 /COM
71 /COM =====
72 /COM =====
73 /COM =====
74 /COM ===== LCASE 2 =====
75 /COM
76 LCFILE,2
77 LCASE,2
78 ESEL,TYPE,2
79 NELEM
80 /COM
81 /COM =====
82 /COM ===== MAXIMUM VALUES OF SX =====
83 /COM
84 NSORT,S,X,0,0,2,SEL
85 PRNSOL,S
86 NUSORT
87 /COM
88 /COM =====
89 /COM ===== MINIMUM VALUES OF SX =====
90 /COM
91 NSORT,S,X,1,0,2,SEL
92 PRNSOL,S
```



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**Appendix SPad-TH to Calculation PGE-009-CALC-006**

```

93 NUSORT
94 /COM
95 /COM =====
96 /COM ===== MAXIMUM VALUES OF SZ =====
97 /COM
98 NSORT,S,Z,0,0,2,SEL
99 PRNSOL,S
100 NUSORT
101 /COM
102 /COM =====
103 /COM ===== MINIMUM VALUES OF SZ =====
104 /COM
105 NSORT,S,Z,1,0,2,SEL
106 PRNSOL,S
107 /COM
108 /COM
109 /COM =====
110 /COM ===== MAXIMUM VALUES OF S1 =====
111 /COM
112 NSORT,S,1,0,0,2,SEL
113 PRNSOL,S,PRIN
114 NUSORT
115 /COM
116 /COM =====
117 /COM ===== MINIMUM VALUES OF S3 =====
118 /COM
119 NSORT,S,3,1,0,2,SEL
120 PRNSOL,S,PRIN
121 NUSORT
122 /COM
123 /COM =====
124 /COM =====
125 /COM =====
126 /COM ===== LCASE 3 =====
127 /COM
128 LCFILE,3
129 LCASE,3
130 ESEL,TYPE,2
131 NELEM
132 /COM
133 /COM =====
134 /COM ===== MAXIMUM VALUES OF SX =====
135 /COM
136 NSORT,S,X,0,0,2,SEL
137 PRNSOL,S
138 NUSORT
139 /COM
140 /COM =====
141 /COM ===== MINIMUM VALUES OF SX =====
142 /COM
143 NSORT,S,X,1,0,2,SEL
144 PRNSOL,S
145 NUSORT
146 /COM
147 /COM =====
148 /COM ===== MAXIMUM VALUES OF SZ =====
149 /COM

```



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**Appendix SPad-TH to Calculation PGE-009-CALC-006**

```

150 NSORT,S,Z,0,0,2,SEL
151 PRNSOL,S
152 NUSORT
153 /COM
154 /COM =====
155 /COM ===== MINIMUM VALUES OF SZ =====
156 /COM
157 NSORT,S,Z,1,0,2,SEL
158 PRNSOL,S
159 /COM
160 /COM
161 /COM =====
162 /COM ===== MAXIMUM VALUES OF S1 =====
163 /COM
164 NSORT,S,1,0,0,2,SEL
165 PRNSOL,S,PRIN
166 NUSORT
167 /COM
168 /COM =====
169 /COM ===== MINIMUM VALUES OF S3 =====
170 /COM
171 NSORT,S,3,1,0,2,SEL
172 PRNSOL,S,PRIN
173 NUSORT
174 /COM
175 /COM =====
176 /COM =====
177 /COM =====
178 /COM ===== LCASE 4 =====
179 /COM
180 LCFILE,4
181 LCASE,4
182 ESEL,TYPE,2
183 NELEM
184 /COM
185 /COM =====
186 /COM ===== MAXIMUM VALUES OF SX =====
187 /COM
188 NSORT,S,X,0,0,2,SEL
189 PRNSOL,S
190 NUSORT
191 /COM
192 /COM =====
193 /COM ===== MINIMUM VALUES OF SX =====
194 /COM
195 NSORT,S,X,1,0,2,SEL
196 PRNSOL,S
197 NUSORT
198 /COM
199 /COM =====
200 /COM ===== MAXIMUM VALUES OF SZ =====
201 /COM
202 NSORT,S,Z,0,0,2,SEL
203 PRNSOL,S
204 NUSORT
205 /COM
206 /COM =====

```



**ENERCON  
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Appendix SPad-TH to Calculation PGE-009-CALC-006

```

207 /COM ===== MINIMUM VALUES OF SZ =====
208 /COM
209 NSORT,S,Z,1,0,2,SEL
210 PRNSOL,S
211 /COM
212 /COM
213 /COM =====
214 /COM ===== MAXIMUM VALUES OF S1 =====
215 /COM
216 NSORT,S,1,0,0,2,SEL
217 PRNSOL,S,PRIN
218 NUSORT
219 /COM
220 /COM =====
221 /COM ===== MINIMUM VALUES OF S3 =====
222 /COM
223 NSORT,S,3,1,0,2,SEL
224 PRNSOL,S,PRIN
225 NUSORT
226 /COM
227 /COM =====
228 /COM =====
229 /COM =====
230 /COM ===== LCASE 5 =====
231 /COM
232 LCFILE,5
233 LCASE,5
234 ESEL,TYPE,2
235 NELEM
236 /COM
237 /COM =====
238 /COM ===== MAXIMUM VALUES OF SX =====
239 /COM
240 NSORT,S,X,0,0,2,SEL
241 PRNSOL,S
242 NUSORT
243 /COM
244 /COM =====
245 /COM ===== MINIMUM VALUES OF SX =====
246 /COM
247 NSORT,S,X,1,0,2,SEL
248 PRNSOL,S
249 NUSORT
250 /COM
251 /COM =====
252 /COM ===== MAXIMUM VALUES OF SZ =====
253 /COM
254 NSORT,S,Z,0,0,2,SEL
255 PRNSOL,S
256 NUSORT
257 /COM
258 /COM =====
259 /COM ===== MINIMUM VALUES OF SZ =====
260 /COM
261 NSORT,S,Z,1,0,2,SEL
262 PRNSOL,S
263 /COM
    
```



**ENERCON  
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**Appendix SPad-TH to Calculation PGE-009-CALC-006**

```

264 /COM
265 /COM =====
266 /COM ===== MAXIMUM VALUES OF S1 =====
267 /COM
268 NSORT,S,1,0,0,2,SEL
269 PRNSOL,S,PRIN
270 NUSORT
271 /COM
272 /COM =====
273 /COM ===== MINIMUM VALUES OF S3 =====
274 /COM
275 NSORT,S,3,1,0,2,SEL
276 PRNSOL,S,PRIN
277 NUSORT
278 /COM
279 /COM =====
280 /COM =====
281 /COM =====
282 /COM ===== LCASE 6 =====
283 /COM
284 LCFILE,6
285 LCASE,6
286 ESEL,TYPE,2
287 NELEM
288 /COM
289 /COM =====
290 /COM ===== MAXIMUM VALUES OF SX =====
291 /COM
292 NSORT,S,X,0,0,2,SEL
293 PRNSOL,S
294 NUSORT
295 /COM
296 /COM =====
297 /COM ===== MINIMUM VALUES OF SX =====
298 /COM
299 NSORT,S,X,1,0,2,SEL
300 PRNSOL,S
301 NUSORT
302 /COM
303 /COM =====
304 /COM ===== MAXIMUM VALUES OF SZ =====
305 /COM
306 NSORT,S,Z,0,0,2,SEL
307 PRNSOL,S
308 NUSORT
309 /COM
310 /COM =====
311 /COM ===== MINIMUM VALUES OF SZ =====
312 /COM
313 NSORT,S,Z,1,0,2,SEL
314 PRNSOL,S
315 /COM
316 /COM
317 /COM =====
318 /COM ===== MAXIMUM VALUES OF S1 =====
319 NSORT,S,1,0,0,2,SEL
320 PRNSOL,S,PRIN
    
```



**ENERCON  
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**Appendix SPad-TH to Calculation PGE-009-CALC-006**

```

321 NUSORT
322 /COM
323 /COM =====
324 /COM ===== MINIMUM VALUES OF S3 =====
325 /COM
326 NSORT,S,3,1,0,2,SEL
327 PRNSOL,S,PRIN
328 NUSORT
329 /COM
330 /COM =====
331 /COM =====
332 /COM =====
333 /COM ===== LCASE 7 =====
334 /COM
335 LCFILE,7
336 LCASE,7
337 ESEL,TYPE,2
338 NELEM
339 /COM
340 /COM =====
341 /COM ===== MAXIMUM VALUES OF SX =====
342 /COM
343 NSORT,S,X,0,0,2,SEL
344 PRNSOL,S
345 NUSORT
346 /COM
347 /COM =====
348 /COM ===== MINIMUM VALUES OF SX =====
349 /COM
350 NSORT,S,X,1,0,2,SEL
351 PRNSOL,S
352 NUSORT
353 /COM
354 /COM =====
355 /COM ===== MAXIMUM VALUES OF SZ =====
356 /COM
357 NSORT,S,Z,0,0,2,SEL
358 PRNSOL,S
359 NUSORT
360 /COM
361 /COM =====
362 /COM ===== MINIMUM VALUES OF SZ =====
363 /COM
364 NSORT,S,Z,1,0,2,SEL
365 PRNSOL,S
366 /COM
367 /COM
368 /COM =====
369 /COM ===== MAXIMUM VALUES OF S1 =====
370 /COM
371 NSORT,S,1,0,0,2,SEL
372 PRNSOL,S,PRIN
373 NUSORT
374 /COM
375 /COM =====
376 /COM ===== MINIMUM VALUES OF S3 =====
377 /COM
    
```





**ENERCON  
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**Appendix SPad-TH to Calculation PGE-009-CALC-006**

```

378 NSORT, S, 3, 1, 0, 2, SEL
379 PRNSOL, S, PRIN
380 NUSORT
381 /COM
382 /COM =====
383 /COM =====
384 /COM =====
385 /COM ===== LCASE 8 =====
386 /COM
387 LCFILE, 8
388 LCASE, 8
389 ESEL, TYPE, 2
390 NELEM
391 /COM
392 /COM =====
393 /COM ===== MAXIMUM VALUES OF SX =====
394 /COM
395 NSORT, S, X, 0, 0, 2, SEL
396 PRNSOL, S
397 NUSORT
398 /COM
399 /COM =====
400 /COM ===== MINIMUM VALUES OF SX =====
401 /COM
402 NSORT, S, X, 1, 0, 2, SEL
403 PRNSOL, S
404 NUSORT
405 /COM
406 /COM =====
407 /COM ===== MAXIMUM VALUES OF SZ =====
408 /COM
409 NSORT, S, Z, 0, 0, 2, SEL
410 PRNSOL, S
411 NUSORT
412 /COM
413 /COM =====
414 /COM ===== MINIMUM VALUES OF SZ =====
415 /COM
416 NSORT, S, Z, 1, 0, 2, SEL
417 PRNSOL, S
418 /COM
419 /COM
420 /COM =====
421 /COM ===== MAXIMUM VALUES OF S1 =====
422 /COM
423 NSORT, S, 1, 0, 0, 2, SEL
424 PRNSOL, S, PRIN
425 NUSORT
426 /COM
427 /COM =====
428 /COM ===== MINIMUM VALUES OF S3 =====
429 /COM
430 NSORT, S, 3, 1, 0, 2, SEL
431 PRNSOL, S, PRIN
432 NUSORT
433 /COM
434 /COM =====

```



**ENERCON  
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**Appendix SPad-TH to Calculation PGE-009-CALC-006**

```

435 /COM =====
436 /COM =====
437 /COM ===== LCASE 9 =====
438 /COM
439 LCFILE,9
440 LCASE,9
441 ESEL,TYPE,2
442 NELEM
443 /COM
444 /COM =====
445 /COM ===== MAXIMUM VALUES OF SX =====
446 /COM
447 NSORT,S,X,0,0,2,SEL
448 PRNSOL,S
449 NUSORT
450 /COM
451 /COM =====
452 /COM ===== MINIMUM VALUES OF SX =====
453 /COM
454 NSORT,S,X,1,0,2,SEL
455 PRNSOL,S
456 NUSORT
457 /COM
458 /COM =====
459 /COM ===== MAXIMUM VALUES OF SZ =====
460 /COM
461 NSORT,S,Z,0,0,2,SEL
462 PRNSOL,S
463 NUSORT
464 /COM
465 /COM =====
466 /COM ===== MINIMUM VALUES OF SZ =====
467 /COM
468 NSORT,S,Z,1,0,2,SEL
469 PRNSOL,S
470 /COM
471 /COM
472 /COM =====
473 /COM ===== MAXIMUM VALUES OF S1 =====
474 /COM
475 NSORT,S,1,0,0,2,SEL
476 PRNSOL,S,PRIN
477 NUSORT
478 /COM
479 /COM =====
480 /COM ===== MINIMUM VALUES OF S3 =====
481 /COM
482 NSORT,S,3,1,0,2,SEL
483 PRNSOL,S,PRIN
484 NUSORT
485 /COM
486 /COM =====
487 /COM =====
488 /COM =====
489 /COM ===== LCASE 10 =====
490 /COM
491 LCFILE,10
    
```



**ENERCON  
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**Appendix SPad-TH to Calculation PGE-009-CALC-006**

```

492 LCASE,10
493 ESEL,TYPE,2
494 NELEM
495 /COM
496 /COM =====
497 /COM ===== MAXIMUM VALUES OF SX =====
498 /COM
499 NSORT,S,X,0,0,2,SEL
500 PRNSOL,S
501 NUSORT
502 /COM
503 /COM =====
504 /COM ===== MINIMUM VALUES OF SX =====
505 /COM
506 NSORT,S,X,1,0,2,SEL
507 PRNSOL,S
508 NUSORT
509 /COM
510 /COM =====
511 /COM ===== MAXIMUM VALUES OF SZ =====
512 /COM
513 NSORT,S,Z,0,0,2,SEL
514 PRNSOL,S
515 NUSORT
516 /COM
517 /COM =====
518 /COM ===== MINIMUM VALUES OF SZ =====
519 /COM
520 NSORT,S,Z,1,0,2,SEL
521 PRNSOL,S
522 /COM
523 /COM
524 /COM =====
525 /COM ===== MAXIMUM VALUES OF S1 =====
526 /COM
527 NSORT,S,1,0,0,2,SEL
528 PRNSOL,S,PRIN
529 NUSORT
530 /COM
531 /COM =====
532 /COM ===== MINIMUM VALUES OF S3 =====
533 /COM
534 NSORT,S,3,1,0,2,SEL
535 PRNSOL,S,PRIN
536 NUSORT
537 /COM
538 /COM =====
539 /COM =====
540 /COM =====
541 /COM ===== LCASE 11 =====
542 /COM
543 LCFILE,11
544 LCASE,11
545 ESEL,TYPE,2
546 NELEM
547 /COM
548 /COM =====

```



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**Appendix SPad-TH to Calculation PGE-009-CALC-006**

```

549 /COM ===== MAXIMUM VALUES OF SX =====
550 /COM
551 NSORT,S,X,0,0,2,SEL
552 PRNSOL,S
553 NUSORT
554 /COM
555 /COM =====
556 /COM ===== MINIMUM VALUES OF SX =====
557 /COM
558 NSORT,S,X,1,0,2,SEL
559 PRNSOL,S
560 NUSORT
561 /COM
562 /COM =====
563 /COM ===== MAXIMUM VALUES OF SZ =====
564 /COM
565 NSORT,S,Z,0,0,2,SEL
566 PRNSOL,S
567 NUSORT
568 /COM
569 /COM =====
570 /COM ===== MINIMUM VALUES OF SZ =====
571 /COM
572 NSORT,S,Z,1,0,2,SEL
573 PRNSOL,S
574 /COM
575 /COM
576 /COM =====
577 /COM ===== MAXIMUM VALUES OF S1 =====
578 /COM
579 NSORT,S,1,0,0,2,SEL
580 PRNSOL,S,PRIN
581 NUSORT
582 /COM
583 /COM =====
584 /COM ===== MINIMUM VALUES OF S3 =====
585 /COM
586 NSORT,S,3,1,0,2,SEL
587 PRNSOL,S,PRIN
588 NUSORT
589 /COM
590 /COM =====
591 /COM =====
592 /COM =====
593 /COM =====
594 /COM
595 EALL
596 NALL
597 FINI
598 /OUTPUT
599 /EXIT,NOSAVE

```

RUN SETUP PROCEDURE FROM FILE= C:\Program Files\Ansys  
Inc\ANSYS61\docu\start61.ans

/INPUT FILE= C:\Program Files\Ansys Inc\ANSYS61\docu\start61.ans LINE=



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**Appendix SPad-TH to Calculation PGE-009-CALC-006**

STRESS DATA SORTED AND PRINTED BY LOAD CASE

THIS ROUTINE SORTS AND PRINTS STRESS DATA BY LOAD CASE  
FIRST SX, SZ, S1 (MAX) AND S3 (MIN)

CURRENT JOBNAME REDEFINED AS Pad-Th

RESUME ANSYS DATA FROM FILE NAME=Pad-Th.db

\*\*\* ANSYS GLOBAL STATUS \*\*\*

TITLE = DELTA T 6.125 TO 7.875 DAYS

ANALYSIS TYPE = STATIC (STEADY-STATE)

NUMBER OF ELEMENT TYPES = 5

8812 ELEMENTS CURRENTLY SELECTED. MAX ELEMENT NUMBER = 9341

10212 NODES CURRENTLY SELECTED. MAX NODE NUMBER = 10212

166 KEYPOINTS CURRENTLY SELECTED. MAX KEYPOINT NUMBER = 166

339 LINES CURRENTLY SELECTED. MAX LINE NUMBER = 339

2 AREAS CURRENTLY SELECTED. MAX AREA NUMBER = 224

48 VOLUMES CURRENTLY SELECTED. MAX VOL. NUMBER = 48

22 COMPONENTS CURRENTLY DEFINED

MAXIMUM LINEAR PROPERTY NUMBER = 12

MAXIMUM REAL CONSTANT SET NUMBER = 1

ACTIVE COORDINATE SYSTEM = 0 (CARTESIAN)

MAXIMUM COUPLED D.O.F. SET NUMBER = 367

NUMBER OF SPECIFIED CONSTRAINTS = 4657

CURRENT LOAD CASE = 0 OF 0

LOAD SET = 11

SUBSTEP = 1

TIME/FREQ = 11.000

INITIAL JOBNAME = PAD-TH

CURRENT JOBNAME = Pad-Th

PRINT HEADER

DO NOT PRINT SUBTITLE(S)

DO NOT PRINT LOAD STEP ID

DO NOT PRINT NOTE LINE(S)

PRINT COLUMN HEADER LABELS

DO NOT PRINT REPORT TOTALS

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*

ANSYS/Mechanical U

00245050

VERSION=INTEL NT

17:39:46 JUN 10, 2002 CP=

0.751

DELTA T 6.125 TO 7.875 DAYS

\*\*\*\*\* ANSYS RESULTS INTERPRETATION (POST1) \*\*\*\*\*



Appendix SPad-TH to Calculation PGE-009-CALC-006

\*\*\* WARNING \*\*\* CP= 0.751 TIME= 17:39:46
The current solution may have been produced using different model or boundary condition data than is currently stored. POST1 results may be erroneous unless you perform a new solution using the stored data.

\*\*\* NOTE \*\*\* CP= 0.751 TIME= 17:39:46
Reading results into the database (SET command) will update the current displacement and force boundary conditions in the database with the values from the results file for that load set. Note that any subsequent solutions will use these values unless action is taken to either SAVE the current values or not overwrite them (/EXIT,NOSAVE).

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

10212 NODES (OF 10212 DEFINED) SELECTED BY NALL COMMAND.

=====
=====
=====
===== LCASE 1 =====

LOAD CASE 1 IS LOAD STEP 1 SUBSTEP 1 COMPLEX= 0
FILE= Pad-Th.101
PAD RESPONSE AT END OF 0.25 DAYS

COPY LOAD CASE 1 FROM FILE TO DATABASE

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM
1870 SELECTED ELEMENTS BY NELE COMMAND.

=====
===== MAXIMUM VALUES OF SX =====

SORT ON ITEM=S COMPONENT=X ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:39:47 JUN 10, 2002 CP= 1.392

PAD RESPONSE AT END OF 0.25 DAYS



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Appendix SPad-TH to Calculation PGE-009-CALC-006

NODE	SX	SY	SZ	SXY	SYZ	SXZ
838	36.343	-0.81564	-11.185	0.42647	1.2265	-10.374
839	36.169	-0.55461	3.5067	0.44242	1.3791	-14.486

NODE SORT REMOVED

=====  
 ===== MINIMUM VALUES OF SX =====  
 =====

SORT ON ITEM=S COMPONENT=X ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050 VERSION=INTEL NT 17:39:47 JUN 10, 2002 CP= 1.412

PAD RESPONSE AT END OF 0.25 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
2817	-122.86	-369.93	-117.39	126.93	121.38	-17.968
2837	-103.04	-57.817	-70.010	59.504	58.274	-7.2475

NODE SORT REMOVED

=====  
 ===== MAXIMUM VALUES OF SZ =====  
 =====

SORT ON ITEM=S COMPONENT=Z ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050 VERSION=INTEL NT 17:39:47 JUN 10, 2002 CP= 1.432

PAD RESPONSE AT END OF 0.25 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
2659	-31.149	-0.94337	35.296	0.70818	-0.64952	-5.8041
2658	-38.529	-0.98118	35.263	0.49591	-0.59618	-3.5070

NODE SORT REMOVED

=====  
 ===== MINIMUM VALUES OF SZ =====  
 =====



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**Appendix SPad-TH to Calculation PGE-009-CALC-006**

SORT ON ITEM=S      COMPONENT=Z      ORDER= 1    KABS= 0    NMAX=      2

SORT COMPLETED FOR      2 VALUES.

PRINT S      NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1      \*\*\*\*\*

ANSYS/Mechanical U

00245050      VERSION=INTEL NT      17:39:47    JUN 10, 2002 CP=      1.462

PAD RESPONSE AT END OF 0.25 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
2817	-122.86	-369.93	-117.39	126.93	121.38	-17.968
26	-97.821	-0.91153	-116.86	0.60227	0.20793	0.20342E-01

=====

=====      MAXIMUM VALUES OF S1      =====

SORT ON ITEM=S      COMPONENT=1      ORDER= 0    KABS= 0    NMAX=      2

SORT COMPLETED FOR      2 VALUES.

PRINT S      NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1      \*\*\*\*\*

ANSYS/Mechanical U

00245050      VERSION=INTEL NT      17:39:47    JUN 10, 2002 CP=      1.482

PAD RESPONSE AT END OF 0.25 DAYS

NODE	S1	S2	S3	SINT	SEQV
626	49.092	11.203	-1.8546	50.946	45.834
2663	48.952	16.391	-1.7938	50.746	44.531

NODE SORT REMOVED

=====

=====      MINIMUM VALUES OF S3      =====

SORT ON ITEM=S      COMPONENT=3      ORDER= 1    KABS= 0    NMAX=      2

SORT COMPLETED FOR      2 VALUES.

PRINT S      NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1      \*\*\*\*\*

ANSYS/Mechanical U





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**Appendix SPad-TH to Calculation PGE-009-CALC-006**

00245050                    VERSION=INTEL NT                    17:39:47    JUN 10, 2002 CP=                    1.502

PAD RESPONSE AT END OF 0.25 DAYS

NODE	S1	S2	S3	SINT	SEQV
2817	-43.616	-102.10	-464.47	420.85	394.87
2818	-26.438	-76.933	-397.48	371.04	348.55

NODE SORT REMOVED

```
=====
=====
=====
===== LCASE 2 =====
=====
```

LOAD CASE 2 IS LOAD STEP 2 SUBSTEP 1 COMPLEX= 0  
 FILE= Pad-Th.102  
 PAD RESPONSE AT END OF 0.50 DAYS

COPY LOAD CASE 2 FROM FILE TO DATABASE

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1  
 1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.  
 2376 NODES (OF 10212 DEFINED) SELECTED FROM  
 1870 SELECTED ELEMENTS BY NELE COMMAND.

```
=====
===== MAXIMUM VALUES OF SX =====
=====
```

SORT ON ITEM=S            COMPONENT=X            ORDER= 0    KABS= 0    NMAX=            2  
 SORT COMPLETED FOR            2 VALUES.

PRINT S            NODAL SOLUTION PER NODE  
 1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1            \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050                    VERSION=INTEL NT                    17:39:48    JUN 10, 2002 CP=                    2.123

PAD RESPONSE AT END OF 0.50 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
824	229.29	-0.48006	204.71	0.60414	1.3658	-10.305
825	229.08	-1.2877	220.60	0.58166	1.2315	-13.858

NODE SORT REMOVED



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Appendix SPad-TH to Calculation PGE-009-CALC-006

=====  
===== MINIMUM VALUES OF SX =====

SORT ON ITEM=S COMPONENT=X ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE  
1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
ANSYS/Mechanical U  
00245050 VERSION=INTEL NT 17:39:48 JUN 10, 2002 CP= 2.143

PAD RESPONSE AT END OF 0.50 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
1720	-241.70	-1.2937	-227.96	1.2522	15.719	-0.47426
71	-241.67	-0.79466	-256.24	1.5684	0.55897	-0.78080E-02

NODE SORT REMOVED

=====  
===== MAXIMUM VALUES OF SZ =====

SORT ON ITEM=S COMPONENT=Z ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE  
1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
ANSYS/Mechanical U  
00245050 VERSION=INTEL NT 17:39:48 JUN 10, 2002 CP= 2.153

PAD RESPONSE AT END OF 0.50 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
622	185.54	-2.1068	236.42	0.68621	0.87546E-01	-7.0396
621	177.00	-2.3944	236.35	0.43051	0.13315	-4.4727

NODE SORT REMOVED

=====  
===== MINIMUM VALUES OF SZ =====

SORT ON ITEM=S COMPONENT=Z ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE



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SERVICES, INC.

Appendix SPad-TH to Calculation PGE-009-CALC-006

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050 VERSION=INTEL NT 17:39:48 JUN 10, 2002 CP= 2.173

PAD RESPONSE AT END OF 0.50 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
71	-241.67	-0.79466	-256.24	1.5684	0.55897	-0.78080E-02
78	-241.21	-0.87746	-256.22	3.1812	0.55601	-0.15628E-01

=====

MAXIMUM VALUES OF S1

SORT ON ITEM=S COMPONENT=1 ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050 VERSION=INTEL NT 17:39:48 JUN 10, 2002 CP= 2.183

PAD RESPONSE AT END OF 0.50 DAYS

NODE	S1	S2	S3	SINT	SEQV
625	247.08	212.93	-3.1698	250.25	235.04
626	241.57	206.11	-4.2988	245.87	230.19

NODE SORT REMOVED

=====

MINIMUM VALUES OF S3

SORT ON ITEM=S COMPONENT=3 ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050 VERSION=INTEL NT 17:39:48 JUN 10, 2002 CP= 2.203

PAD RESPONSE AT END OF 0.50 DAYS

NODE	S1	S2	S3	SINT	SEQV
------	----	----	----	------	------



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Appendix SPad-TH to Calculation PGE-009-CALC-006

2817	-18.781	-168.99	-613.35	594.57	535.50
2818	15.565	-118.42	-494.47	510.03	457.98

NODE SORT REMOVED

```
=====
=====
=====
=====
===== LCASE 3 =====
=====
```

LOAD CASE 3 IS LOAD STEP 3 SUBSTEP 1 COMPLEX= 0  
 FILE= Pad-Th.103  
 PAD RESPONSE AT END OF 0.625 DAYS

COPY LOAD CASE 3 FROM FILE TO DATABASE

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
 1870 SELECTED ELEMENTS BY NELE COMMAND.

```
=====
===== MAXIMUM VALUES OF SX =====
=====
```

SORT ON ITEM=S COMPONENT=X ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

```
***** ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 *****
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:39:48 JUN 10, 2002 CP= 2.804
```

PAD RESPONSE AT END OF 0.625 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
824	351.46	-0.63540	328.21	0.42880	1.4027	-11.366
823	351.03	-1.0066	314.64	0.44491	0.75155	-7.8367

NODE SORT REMOVED

```
=====
===== MINIMUM VALUES OF SX =====
=====
```

SORT ON ITEM=S COMPONENT=X ORDER= 1 KABS= 0 NMAX= 2



**ENERCON  
SERVICES, INC.**

**Appendix SPad-TH to Calculation PGE-009-CALC-006**

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050 VERSION=INTEL NT 17:39:48 JUN 10, 2002 CP= 2.814

PAD RESPONSE AT END OF 0.625 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
1510	-299.78	-6.4839	-283.05	1.5879	17.781	-0.52942
1706	-299.70	-6.6893	-283.13	2.7449	17.714	-1.0548

NODE SORT REMOVED

=====

===== MAXIMUM VALUES OF SZ =====

SORT ON ITEM=S COMPONENT=Z ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050 VERSION=INTEL NT 17:39:48 JUN 10, 2002 CP= 2.834

PAD RESPONSE AT END OF 0.625 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
621	300.92	-3.4337	360.35	0.44356	0.28514	-5.0057
622	309.13	-3.3313	360.30	0.64859	0.24175	-7.7476

NODE SORT REMOVED

=====

===== MINIMUM VALUES OF SZ =====

SORT ON ITEM=S COMPONENT=Z ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050 VERSION=INTEL NT 17:39:48 JUN 10, 2002 CP= 2.844



**Appendix SPad-TH to Calculation PGE-009-CALC-006**

PAD RESPONSE AT END OF 0.625 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
66	-289.71	-1.3262	-313.22	17.574	0.50939	-0.15102
68	-295.49	-0.79412	-313.13	10.264	0.56197	-0.88522E-01

=====  
 ===== MAXIMUM VALUES OF S1 =====  
 =====

SORT ON ITEM=S COMPONENT=1 ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050 VERSION=INTEL NT 17:39:48 JUN 10, 2002 CP= 2.864

PAD RESPONSE AT END OF 0.625 DAYS

NODE	S1	S2	S3	SINT	SEQV
625	371.00	334.24	-4.1138	375.11	358.15
624	365.79	327.61	-3.2218	369.01	351.48

NODE SORT REMOVED

=====  
 ===== MINIMUM VALUES OF S3 =====  
 =====

SORT ON ITEM=S COMPONENT=3 ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050 VERSION=INTEL NT 17:39:48 JUN 10, 2002 CP= 2.874

PAD RESPONSE AT END OF 0.625 DAYS

NODE	S1	S2	S3	SINT	SEQV
2817	-13.156	-199.33	-701.21	688.05	616.42
2818	50.836	-105.30	-549.60	600.44	539.59

NODE SORT REMOVED

=====



ENERCON SERVICES, INC.

Appendix SPad-TH to Calculation PGE-009-CALC-006

=====  
=====  
=====  
===== LCASE 4 =====

LOAD CASE 4 IS LOAD STEP 4 SUBSTEP 1 COMPLEX= 0  
FILE= Pad-Th.104  
PAD RESPONSE AT END OF 1.125 DAYS

COPY LOAD CASE 4 FROM FILE TO DATABASE

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1  
1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

=====  
===== MAXIMUM VALUES OF SX =====

SORT ON ITEM=S COMPONENT=X ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE  
1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
ANSYS/Mechanical U  
00245050 VERSION=INTEL NT 17:39:49 JUN 10, 2002 CP= 3.475

PAD RESPONSE AT END OF 1.125 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
825	503.88	-0.38527	504.94	0.20559	2.0548	-13.412
824	503.03	-0.94352	484.92	0.24377	1.0997	-10.068

NODE SORT REMOVED

=====  
===== MINIMUM VALUES OF SX =====

SORT ON ITEM=S COMPONENT=X ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE  
1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*



**ENERCON  
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**Appendix SPad-TH to Calculation PGE-009-CALC-006**

ANSYS/Mechanical U  
00245050            VERSION=INTEL NT            17:39:49    JUN 10, 2002 CP=            3.485

PAD RESPONSE AT END OF 1.125 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
1720	-469.89	-0.84795	-444.92	1.3107	14.609	-0.82113
1718	-469.61	-1.2413	-460.87	1.3487	16.515	-0.65502

NODE SORT REMOVED

=====  
=====            MAXIMUM VALUES OF SZ            =====

SORT ON ITEM=S            COMPONENT=Z            ORDER= 0    KABS= 0    NMAX=            2

SORT COMPLETED FOR            2 VALUES.

PRINT S            NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1            \*\*\*\*\*

ANSYS/Mechanical U  
00245050            VERSION=INTEL NT            17:39:49    JUN 10, 2002 CP=            3.505

PAD RESPONSE AT END OF 1.125 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
769	464.05	0.55946	510.55	0.40711	2.0831	-4.2446
755	458.75	0.56374	510.53	0.28002	2.1045	-2.5368

NODE SORT REMOVED

=====  
=====            MINIMUM VALUES OF SZ            =====

SORT ON ITEM=S            COMPONENT=Z            ORDER= 1    KABS= 0    NMAX=            2

SORT COMPLETED FOR            2 VALUES.

PRINT S            NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1            \*\*\*\*\*

ANSYS/Mechanical U  
00245050            VERSION=INTEL NT            17:39:49    JUN 10, 2002 CP=            3.525

PAD RESPONSE AT END OF 1.125 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
71	-469.20	-0.94004	-492.78	1.6256	0.58684	-0.16064E-01
78	-468.45	-1.0518	-492.74	3.3168	0.58393	-0.32108E-01







FILE= Pad-Th.105
PAD RESPONSE AT END OF 1.625 DAYS

COPY LOAD CASE 5 FROM FILE TO DATABASE

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM
1870 SELECTED ELEMENTS BY NELE COMMAND.

=====  
===== MAXIMUM VALUES OF SX =====

SORT ON ITEM=S COMPONENT=X ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:39:50 JUN 10, 2002 CP= 4.136

PAD RESPONSE AT END OF 1.625 DAYS

Table with 7 columns: NODE, SX, SY, SZ, SXY, SYZ, SXZ. Rows show values for nodes 825 and 824.

NODE SORT REMOVED

=====  
===== MINIMUM VALUES OF SX =====

SORT ON ITEM=S COMPONENT=X ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:39:50 JUN 10, 2002 CP= 4.146

PAD RESPONSE AT END OF 1.625 DAYS



**ENERCON  
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**Appendix SPad-TH to Calculation PGE-009-CALC-006**

NODE	SX	SY	SZ	SXY	SYZ	SXZ
72	-567.62	-2.2889	-594.04	1.1321	0.50836	-0.12745E-01
1721	-567.60	-2.2961	-593.83	1.1279	1.0075	-0.25813E-01

NODE SORT REMOVED

=====

=====

=====

SORT ON ITEM=S      COMPONENT=Z      ORDER= 0    KABS= 0    NMAX=      2

SORT COMPLETED FOR      2 VALUES.

PRINT S      NODAL SOLUTION PER NODE  
1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM    RELEASE 6.1      \*\*\*\*\*  
ANSYS/Mechanical U  
00245050      VERSION=INTEL NT      17:39:50    JUN 10, 2002 CP=      4.166

PAD RESPONSE AT END OF 1.625 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
769	492.34	0.89242	537.49	0.37725	2.7540	-3.5650
755	487.62	0.80200	537.39	0.23730	2.7740	-2.1198

NODE SORT REMOVED

=====

=====

=====

SORT ON ITEM=S      COMPONENT=Z      ORDER= 1    KABS= 0    NMAX=      2

SORT COMPLETED FOR      2 VALUES.

PRINT S      NODAL SOLUTION PER NODE  
1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM    RELEASE 6.1      \*\*\*\*\*  
ANSYS/Mechanical U  
00245050      VERSION=INTEL NT      17:39:50    JUN 10, 2002 CP=      4.176

PAD RESPONSE AT END OF 1.625 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
72	-567.62	-2.2889	-594.04	1.1321	0.50836	-0.12745E-01
77	-566.83	-2.0157	-593.94	2.3383	0.50349	-0.25294E-01

=====

=====

=====



ENERCON SERVICES, INC.

Appendix SPad-TH to Calculation PGE-009-CALC-006

SORT ON ITEM=S COMPONENT=1 ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:39:50 JUN 10, 2002 CP= 4.196

PAD RESPONSE AT END OF 1.625 DAYS

Table with 6 columns: NODE, S1, S2, S3, SINT, SEQV. Rows for nodes 825 and 811.

NODE SORT REMOVED

=====
MINIMUM VALUES OF S3
=====

SORT ON ITEM=S COMPONENT=3 ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:39:50 JUN 10, 2002 CP= 4.216

PAD RESPONSE AT END OF 1.625 DAYS

Table with 6 columns: NODE, S1, S2, S3, SINT, SEQV. Rows for nodes 2817 and 2818.

NODE SORT REMOVED

=====
LCASE 6
=====

LOAD CASE 6 IS LOAD STEP 6 SUBSTEP 1 COMPLEX= 0
FILE= Pad-Th.106
PAD RESPONSE AT END OF 2.125 DAYS

COPY LOAD CASE 6 FROM FILE TO DATABASE



ENERCON  
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Appendix SPad-TH to Calculation PGE-009-CALC-006

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

=====

===== MAXIMUM VALUES OF SX =====

SORT ON ITEM=S COMPONENT=X ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE  
1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
ANSYS/Mechanical U  
00245050 VERSION=INTEL NT 17:39:50 JUN 10, 2002 CP= 4.807

PAD RESPONSE AT END OF 2.125 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
825	488.41	-0.17477	499.50	0.14904E-01	3.0091	-9.9106
824	486.23	-1.1825	475.40	0.53120E-01	0.68972	-7.2725

NODE SORT REMOVED

=====

===== MINIMUM VALUES OF SX =====

SORT ON ITEM=S COMPONENT=X ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE  
1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
ANSYS/Mechanical U  
00245050 VERSION=INTEL NT 17:39:50 JUN 10, 2002 CP= 4.827

PAD RESPONSE AT END OF 2.125 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
72	-615.81	-7.2456	-643.89	-0.83746E-01	-0.30609	-0.37858E-01
1721	-615.77	-6.5448	-643.65	0.30058E-01	-0.40303	-0.82076E-01

NODE SORT REMOVED

=====



ENERCON SERVICES, INC.

Appendix SPad-TH to Calculation PGE-009-CALC-006

===== MAXIMUM VALUES OF SZ =====

SORT ON ITEM=S COMPONENT=Z ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:39:50 JUN 10, 2002 CP= 4.837

PAD RESPONSE AT END OF 2.125 DAYS

Table with 7 columns: NODE, SX, SY, SZ, SXY, SYZ, SXZ. Rows for nodes 769 and 755.

NODE SORT REMOVED

===== MINIMUM VALUES OF SZ =====

SORT ON ITEM=S COMPONENT=Z ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:39:50 JUN 10, 2002 CP= 4.857

PAD RESPONSE AT END OF 2.125 DAYS

Table with 7 columns: NODE, SX, SY, SZ, SXY, SYZ, SXZ. Rows for nodes 72 and 1721.

===== MAXIMUM VALUES OF S1 =====

SORT ON ITEM=S COMPONENT=1 ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*



**ENERCON  
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**Appendix SPad-TH to Calculation PGE-009-CALC-006**

ANSYS/Mechanical U  
00245050            VERSION=INTEL NT            17:39:50    JUN 10, 2002 CP=            4.867

PAD RESPONSE AT END OF 2.125 DAYS

NODE	S1	S2	S3	SINT	SEQV
2710	513.79	-118.56	-194.25	708.04	673.39
2709	513.05	-109.12	-164.74	677.80	651.77

NODE SORT REMOVED

=====

===== MINIMUM VALUES OF S3 =====

SORT ON ITEM=S            COMPONENT=3            ORDER= 1    KABS= 0    NMAX=            2

SORT COMPLETED FOR            2 VALUES.

PRINT S            NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM    RELEASE 6.1            \*\*\*\*\*

ANSYS/Mechanical U  
00245050            VERSION=INTEL NT            17:39:50    JUN 10, 2002 CP=            4.887

PAD RESPONSE AT END OF 2.125 DAYS

NODE	S1	S2	S3	SINT	SEQV
2817	98.781	-299.06	-1050.7	1149.5	1011.1
2818	218.52	-119.38	-757.39	975.91	858.38

NODE SORT REMOVED

=====

=====

=====

===== LCASE 7 =====

LOAD CASE    7 IS LOAD STEP            7    SUBSTEP            1    COMPLEX=    0

FILE= Pad-Th.107

PAD RESPONSE AT END OF 2.375 DAYS

COPY LOAD CASE    7 FROM FILE TO DATABASE

ESEL    FOR LABEL= TYPE    FROM            2 TO            2 BY            1

1870 ELEMENTS (OF            8812 DEFINED) SELECTED BY ESEL    COMMAND.

SELECT            ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF            10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.



ENERCON SERVICES, INC.

Appendix SPad-TH to Calculation PGE-009-CALC-006

=====  
===== MAXIMUM VALUES OF SX =====

SORT ON ITEM=S COMPONENT=X ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
ANSYS/Mechanical U  
00245050 VERSION=INTEL NT 17:39:51 JUN 10, 2002 CP= 5.488

PAD RESPONSE AT END OF 2.375 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
825	465.40	-0.22299	477.51	-0.26449E-01	3.0375	-9.6111
824	463.16	-1.1997	453.53	0.90360E-02	0.63861	-7.1064

NODE SORT REMOVED

=====  
===== MINIMUM VALUES OF SX =====

SORT ON ITEM=S COMPONENT=X ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
ANSYS/Mechanical U  
00245050 VERSION=INTEL NT 17:39:51 JUN 10, 2002 CP= 5.508

PAD RESPONSE AT END OF 2.375 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
72	-624.43	-9.8362	-652.83	-0.71112	-0.70377	-0.29655E-01
1721	-624.34	-9.0479	-652.52	-0.59278	-1.1652	-0.74398E-01

NODE SORT REMOVED

=====  
===== MAXIMUM VALUES OF SZ =====

SORT ON ITEM=S COMPONENT=Z ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.





PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:39:51 JUN 10, 2002 CP= 5.518

PAD RESPONSE AT END OF 2.375 DAYS

Table with 7 columns: NODE, SX, SY, SZ, SKY, SYZ, SXZ. Rows for nodes 769 and 783.

NODE SORT REMOVED

=====  
===== MINIMUM VALUES OF SZ =====

SORT ON ITEM=S COMPONENT=Z ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:39:51 JUN 10, 2002 CP= 5.538

PAD RESPONSE AT END OF 2.375 DAYS

Table with 7 columns: NODE, SX, SY, SZ, SKY, SYZ, SXZ. Rows for nodes 72 and 1721.

=====  
===== MAXIMUM VALUES OF S1 =====

SORT ON ITEM=S COMPONENT=1 ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:39:51 JUN 10, 2002 CP= 5.548

PAD RESPONSE AT END OF 2.375 DAYS



ENERCON SERVICES, INC.

Appendix SPad-TH to Calculation PGE-009-CALC-006

NODE	S1	S2	S3	SINT	SEQV
2710	515.60	-122.36	-198.37	713.97	679.17
2709	511.80	-110.60	-166.45	678.25	652.12

NODE SORT REMOVED

```

=====
===== MINIMUM VALUES OF S3 =====

```

SORT ON ITEM=S COMPONENT=3 ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

```

***** ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 *****
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:39:51 JUN 10, 2002 CP= 5.568

```

PAD RESPONSE AT END OF 2.375 DAYS

NODE	S1	S2	S3	SINT	SEQV
2817	100.46	-301.49	-1064.1	1164.5	1024.5
2818	221.66	-119.17	-764.24	985.89	867.25

NODE SORT REMOVED

```

=====
=====
=====
===== LCASE 8 =====

```

```

LOAD CASE 8 IS LOAD STEP 8 SUBSTEP 1 COMPLEX= 0
FILE= Pad-Th.108
PAD RESPONSE AT END OF 3.125 DAYS

```

COPY LOAD CASE 8 FROM FILE TO DATABASE

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

```

2376 NODES (OF 10212 DEFINED) SELECTED FROM
1870 SELECTED ELEMENTS BY NELE COMMAND.

```

```

=====
===== MAXIMUM VALUES OF SX =====

```

SORT ON ITEM=S COMPONENT=X ORDER= 0 KABS= 0 NMAX= 2



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**Appendix SPad-TH to Calculation PGE-009-CALC-006**

SORT ON ITEM=S      COMPONENT=X      ORDER= 0    KABS= 0    NMAX=      2

SORT COMPLETED FOR      2 VALUES.

PRINT S      NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM    RELEASE 6.1      \*\*\*\*\*  
ANSYS/Mechanical U  
00245050      VERSION=INTEL NT      17:39:52    JUN 10, 2002 CP=      6.159

PAD RESPONSE AT END OF 3.125 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
1329	378.63	2.5135	387.76	-0.69684	4.7505	-9.6801
1328	377.32	-0.85495	372.34	-0.71603	1.5022	-7.4075

NODE SORT REMOVED

=====

=====      MINIMUM VALUES OF SX      =====

SORT ON ITEM=S      COMPONENT=X      ORDER= 1    KABS= 0    NMAX=      2

SORT COMPLETED FOR      2 VALUES.

PRINT S      NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM    RELEASE 6.1      \*\*\*\*\*  
ANSYS/Mechanical U  
00245050      VERSION=INTEL NT      17:39:52    JUN 10, 2002 CP=      6.179

PAD RESPONSE AT END OF 3.125 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
72	-607.39	-17.575	-636.39	-2.4128	-2.2520	-0.11804
1721	-607.21	-14.395	-636.28	-1.9613	-3.5141	-0.21571

NODE SORT REMOVED

=====

=====      MAXIMUM VALUES OF SZ      =====

SORT ON ITEM=S      COMPONENT=Z      ORDER= 0    KABS= 0    NMAX=      2

SORT COMPLETED FOR      2 VALUES.

PRINT S      NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM    RELEASE 6.1      \*\*\*\*\*  
ANSYS/Mechanical U



Appendix SPad-TH to Calculation PGE-009-CALC-006

00245050 VERSION=INTEL NT 17:39:52 JUN 10, 2002 CP= 6.189

PAD RESPONSE AT END OF 3.125 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
1161	356.71	2.4254	392.24	0.63964	4.6526	-3.4673
1203	362.12	1.9544	392.13	0.70822	4.6176	-5.0865

NODE SORT REMOVED

=====  
===== MINIMUM VALUES OF SZ =====

SORT ON ITEM=S COMPONENT=Z ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*

ANSYS/Mechanical U

00245050 VERSION=INTEL NT 17:39:52 JUN 10, 2002 CP= 6.209

PAD RESPONSE AT END OF 3.125 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
72	-607.39	-17.575	-636.39	-2.4128	-2.2520	-0.11804
1721	-607.21	-14.395	-636.28	-1.9613	-3.5141	-0.21571

=====  
===== MAXIMUM VALUES OF S1 =====

SORT ON ITEM=S COMPONENT=1 ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*

ANSYS/Mechanical U

00245050 VERSION=INTEL NT 17:39:52 JUN 10, 2002 CP= 6.219

PAD RESPONSE AT END OF 3.125 DAYS

NODE	S1	S2	S3	SINT	SEQV
2710	477.63	-122.97	-196.12	673.75	640.32
2709	467.71	-105.01	-157.98	625.69	600.96

NODE SORT REMOVED



ENERCON SERVICES, INC.

Appendix SPad-TH to Calculation PGE-009-CALC-006

=====  
MINIMUM VALUES OF S3

SORT ON ITEM=S COMPONENT=3 ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
ANSYS/Mechanical U  
00245050 VERSION=INTEL NT 17:39:52 JUN 10, 2002 CP= 6.239

PAD RESPONSE AT END OF 3.125 DAYS

NODE	S1	S2	S3	SINT	SEQV
2817	88.972	-301.11	-1072.3	1161.2	1023.6
2818	209.19	-119.12	-766.65	975.84	860.04

NODE SORT REMOVED

=====  
=====  
=====  
=====  
===== LCASE 9 =====

LOAD CASE 9 IS LOAD STEP 9 SUBSTEP 1 COMPLEX= 0  
FILE= Pad-Th.109  
PAD RESPONSE AT END OF 4.125 DAYS

COPY LOAD CASE 9 FROM FILE TO DATABASE

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

=====  
MAXIMUM VALUES OF SX

SORT ON ITEM=S COMPONENT=X ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1



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**Appendix SPad-TH to Calculation PGE-009-CALC-006**

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050 VERSION=INTEL NT 17:39:52 JUN 10, 2002 CP= 6.830

PAD RESPONSE AT END OF 4.125 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
1329	274.04	2.2920	280.92	-0.54402	4.2572	-10.195
1328	273.06	-0.86175	266.98	-0.57739	1.4968	-7.9415

NODE SORT REMOVED

=====  
 ===== MINIMUM VALUES OF SX =====

SORT ON ITEM=S COMPONENT=X ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE  
 1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050 VERSION=INTEL NT 17:39:52 JUN 10, 2002 CP= 6.850

PAD RESPONSE AT END OF 4.125 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
72	-526.35	-26.905	-554.27	-4.4761	-4.1458	-0.24558
1721	-526.00	-20.156	-554.43	-3.5558	-6.1887	-0.39967

NODE SORT REMOVED

=====  
 ===== MAXIMUM VALUES OF SZ =====

SORT ON ITEM=S COMPONENT=Z ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE  
 1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050 VERSION=INTEL NT 17:39:52 JUN 10, 2002 CP= 6.860

PAD RESPONSE AT END OF 4.125 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
------	----	----	----	-----	-----	-----



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**Appendix SPad-TH to Calculation PGE-009-CALC-006**

1161	250.47	2.1606	285.18	0.67043	4.1315	-3.7826
1203	256.10	1.6899	285.14	0.76665	4.0989	-5.4932

NODE SORT REMOVED

=====  
 ===== MINIMUM VALUES OF SZ =====

SORT ON ITEM=S      COMPONENT=Z      ORDER= 1    KABS= 0    NMAX=      2

SORT COMPLETED FOR      2 VALUES.

PRINT S      NODAL SOLUTION PER NODE  
 1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1      \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050      VERSION=INTEL NT      17:39:52    JUN 10, 2002 CP=      6.880

PAD RESPONSE AT END OF 4.125 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
1721	-526.00	-20.156	-554.43	-3.5558	-6.1887	-0.39967
72	-526.35	-26.905	-554.27	-4.4761	-4.1458	-0.24558

=====  
 ===== MAXIMUM VALUES OF S1 =====

SORT ON ITEM=S      COMPONENT=1      ORDER= 0    KABS= 0    NMAX=      2

SORT COMPLETED FOR      2 VALUES.

PRINT S      NODAL SOLUTION PER NODE  
 1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1      \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050      VERSION=INTEL NT      17:39:52    JUN 10, 2002 CP=      6.900

PAD RESPONSE AT END OF 4.125 DAYS

NODE	S1	S2	S3	SINT	SEQV
2710	368.01	-109.62	-173.80	541.81	512.74
2709	356.66	-86.203	-130.55	487.20	466.61

NODE SORT REMOVED

=====  
 ===== MINIMUM VALUES OF S3 =====

SORT ON ITEM=S      COMPONENT=3      ORDER= 1    KABS= 0    NMAX=      2



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Appendix SPad-TH to Calculation PGE-009-CALC-006

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050 VERSION=INTEL NT 17:39:52 JUN 10, 2002 CP= 6.910

PAD RESPONSE AT END OF 4.125 DAYS

NODE	S1	S2	S3	SINT	SEQV
2817	48.024	-287.43	-1026.6	1074.6	952.29
2818	159.43	-118.48	-738.00	897.43	795.74

NODE SORT REMOVED

=====  
 =====  
 =====  
 ===== LCASE 10 =====  
 =====

LOAD CASE 10 IS LOAD STEP 10 SUBSTEP 1 COMPLEX= 0  
 FILE= Pad-Th.110  
 PAD RESPONSE AT END OF 6.125 DAYS

COPY LOAD CASE 10 FROM FILE TO DATABASE

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
 1870 SELECTED ELEMENTS BY NELE COMMAND.

=====  
 ===== MAXIMUM VALUES OF SX =====  
 =====

SORT ON ITEM=S COMPONENT=X ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050 VERSION=INTEL NT 17:39:53 JUN 10, 2002 CP= 7.501

PAD RESPONSE AT END OF 6.125 DAYS





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**Appendix SPad-TH to Calculation PGE-009-CALC-006**

NODE	SX	SY	SZ	SXY	SYZ	SXZ
1341	129.66	0.75495	108.58	-0.43388	2.5589	-7.7237
1343	129.62	3.9284	126.18	-0.33960	4.8782	-12.454

NODE SORT REMOVED

=====  
 ===== MINIMUM VALUES OF SX =====

SORT ON ITEM=S      COMPONENT=X      ORDER= 1    KABS= 0    NMAX=      2

SORT COMPLETED FOR      2 VALUES.

PRINT S      NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1      \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050      VERSION=INTEL NT      17:39:53    JUN 10, 2002 CP=      7.521

PAD RESPONSE AT END OF 6.125 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
113	-464.18	-65.322	-497.51	-2.2908	-2.4172	1.8454
2289	-455.70	-49.645	-482.50	-3.8912	-1.4700	3.4823

NODE SORT REMOVED

=====  
 ===== MAXIMUM VALUES OF SZ =====

SORT ON ITEM=S      COMPONENT=Z      ORDER= 0    KABS= 0    NMAX=      2

SORT COMPLETED FOR      2 VALUES.

PRINT S      NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1      \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050      VERSION=INTEL NT      17:39:53    JUN 10, 2002 CP=      7.531

PAD RESPONSE AT END OF 6.125 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
655	101.68	-10.626	133.27	2.0638	-4.1328	-6.8750
652	95.659	-10.239	133.22	1.5177	-4.0063	-4.6576

NODE SORT REMOVED

=====



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Appendix SPad-TH to Calculation PGE-009-CALC-006

===== MINIMUM VALUES OF SZ =====

SORT ON ITEM=S COMPONENT=Z ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050 VERSION=INTEL NT 17:39:53 JUN 10, 2002 CP= 7.551

PAD RESPONSE AT END OF 6.125 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
113	-464.18	-65.322	-497.51	-2.2908	-2.4172	1.8454
122	-445.21	-38.351	-484.09	0.92143	-3.9081	3.1527

===== MAXIMUM VALUES OF S1 =====

SORT ON ITEM=S COMPONENT=1 ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050 VERSION=INTEL NT 17:39:53 JUN 10, 2002 CP= 7.571

PAD RESPONSE AT END OF 6.125 DAYS

NODE	S1	S2	S3	SINT	SEQV
2710	150.35	-74.810	-121.40	271.75	251.71
2709	143.59	-47.116	-73.982	217.57	205.46

NODE SORT REMOVED

===== MINIMUM VALUES OF S3 =====

SORT ON ITEM=S COMPONENT=3 ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1



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**Appendix SPad-TH to Calculation PGE-009-CALC-006**

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050 VERSION=INTEL NT 17:39:53 JUN 10, 2002 CP= 7.581

PAD RESPONSE AT END OF 6.125 DAYS

NODE	S1	S2	S3	SINT	SEQV
2817	-34.076	-255.72	-904.16	870.09	783.15
2818	57.086	-119.66	-667.98	725.07	654.84

NODE SORT REMOVED

=====  
 =====  
 =====  
 =====  
 ===== LCASE 11 =====

LOAD CASE 11 IS LOAD STEP 11 SUBSTEP 1 COMPLEX= 0  
 FILE= Pad-Th.111  
 PAD RESPONSE AT END OF 7.875 DAYS

COPY LOAD CASE 11 FROM FILE TO DATABASE

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1  
 1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
 1870 SELECTED ELEMENTS BY NELE COMMAND.

=====  
 ===== MAXIMUM VALUES OF SX =====

SORT ON ITEM=S COMPONENT=X ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE  
 1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
 ANSYS/Mechanical U  
 00245050 VERSION=INTEL NT 17:39:54 JUN 10, 2002 CP= 8.172

PAD RESPONSE AT END OF 7.875 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
921	75.078	-12.149	32.169	-2.7544	6.6158	-8.0877
922	74.989	-12.298	39.384	-2.9648	8.3553	-10.570



Appendix SPad-TH to Calculation PGE-009-CALC-006

NODE SORT REMOVED

=====  
===== MINIMUM VALUES OF SX =====

SORT ON ITEM=S COMPONENT=X ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
ANSYS/Mechanical U  
00245050 VERSION=INTEL NT 17:39:54 JUN 10, 2002 CP= 8.192

PAD RESPONSE AT END OF 7.875 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
113	-442.93	-78.846	-469.82	-2.6757	-2.8598	2.3225
2289	-432.40	-60.401	-450.85	-4.7709	-2.0009	4.3730

NODE SORT REMOVED

=====  
===== MAXIMUM VALUES OF SZ =====

SORT ON ITEM=S COMPONENT=Z ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
ANSYS/Mechanical U  
00245050 VERSION=INTEL NT 17:39:54 JUN 10, 2002 CP= 8.202

PAD RESPONSE AT END OF 7.875 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
638	29.023	-13.965	70.245	4.7007	1.6732	-7.8110
639	22.974	-13.865	70.196	3.4784	1.9116	-5.4221

NODE SORT REMOVED

=====  
===== MINIMUM VALUES OF SZ =====

SORT ON ITEM=S COMPONENT=Z ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.



PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:39:54 JUN 10, 2002 CP= 8.222

PAD RESPONSE AT END OF 7.875 DAYS

Table with 7 columns: NODE, SX, SY, SZ, SXY, SYZ, SXZ. Rows for nodes 113 and 122.

=====
===== MAXIMUM VALUES OF S1 =====

SORT ON ITEM=S COMPONENT=1 ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:39:54 JUN 10, 2002 CP= 8.232

PAD RESPONSE AT END OF 7.875 DAYS

Table with 6 columns: NODE, S1, S2, S3, SINT, SEQV. Rows for nodes 634 and 923.

NODE SORT REMOVED

=====
===== MINIMUM VALUES OF S3 =====

SORT ON ITEM=S COMPONENT=3 ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:39:54 JUN 10, 2002 CP= 8.252

PAD RESPONSE AT END OF 7.875 DAYS



ENERCON SERVICES, INC.

Appendix SPad-TH to Calculation PGE-009-CALC-006

NODE	S1	S2	S3	SINT	SEQV
2817	-85.372	-226.99	-803.27	717.90	658.61
2818	-7.9176	-116.65	-614.92	607.00	560.60

NODE SORT REMOVED

```
=====
=====
=====
=====
```

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

10212 NODES (OF 10212 DEFINED) SELECTED BY NALL COMMAND.

EXIT THE ANSYS POST1 DATABASE PROCESSOR

\*\*\*\*\* ROUTINE COMPLETED \*\*\*\*\* CP = 8.252

EXIT ANSYS WITHOUT SAVING DATABASE

NUMBER OF WARNING MESSAGES ENCOUNTERED= 2  
 NUMBER OF ERROR MESSAGES ENCOUNTERED= 0


```

*-----*
                ANSYS RUN COMPLETED
*-----*
      Release 6.1                UP20020321                INTEL NT
*-----*
Maximum Scratch Memory Used      =      1035636 Words      3.951 MB
*-----*
      CP Time      (sec) =      8.252      Time = 17:39:54
      Elapsed Time (sec) =     10.000      Date  = 06/10/2002
*-----*
  
```



**ENERCON  
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**Appendix FPad-TH to Calculation PGE-009-CALC-006**

Originator:   
Date: September 20, 2002  
Revised: March 3, 2003

**Appendix FPad-TH**

This Appendix presents the ANSYS output file documenting the pad internal forces for the constrained model thermal stress analysis.



ENERCON SERVICES, INC.

Appendix FPad-TH to Calculation PGE-009-CALC-006

ANSYS/Mechanical U

```

*-----*
| W E L C O M E   T O   T H E   A N S Y S   P R O G R A M |
*-----*

```

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*****
*                               ANSYS 6.1 NOTICES                               *
*****
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```





Completing ANSYS Load Process.

\*\*\*\*\* ANSYS COMMAND LINE ARGUMENTS \*\*\*\*\*

INITIAL JOBNAME = PAD-TH
BATCH MODE REQUESTED = LIST
MEMORY REQUESTED (MB) = 800
DATABASE SIZE REQUESTED (MB) = 250

\*\*\* WARNING \*\*\* CP= 0.170 TIME= 17:41:29
Use of the -M switch is no longer recommended for normal ANSYS use.
ANSYS now dynamically allocates memory as needed. Only use the -M
switch if you are certain that you need to do so.

PARAMETER STATUS- ( 1 PARAMETERS DEFINED)
(INCLUDING 1 INTERNAL PARAMETERS)

00245050 VERSION=INTEL NT RELEASE= 6.1 UP20020321
CURRENT JOBNAME=PAD-TH 17:41:29 JUN 10, 2002 CP= 0.170

1 /com,
2 /COM
3 /com
4 /com, This routine processes load results data for the
5 /com, evaluation of pad internal forces and moments
6 /com
7 /com \*\*\*\*\*
8 /com \*\*\*\*\*
9 /com
10 /file, Pad-Th
11 resume
12 /HEADER, ON, OFF, OFF, OFF, ON, OFF
13 /post1
14 eall
15 nall
16 /com
17 /com \*\*\*\*\*
18 /com \*\*\*\*\* LOAD CASE 1 \*\*\*\*\*
19 lcfile,1
20 lcase,1
21 /COM
22 /COM SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS
23 /com
24 /com Select all nodes in pad only
25 /com
26 esel, type, 2
27 nelem
28 /com
29 /com select strip Z direction x = 0 to 204 Lines C to D
30 /com
31 nsel, r, loc, x, -0.1, 204.1
32 enode, 1
33 /com
34 /com internal forces at Z = 0.0 LINE 5 1/2
35 /com



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**Appendix FPad-TH to Calculation PGE-009-CALC-006**

```

36 nsel,r,loc,z,-0.1,0.1
37 spoint,,102,-48.0,0.0
38 fsum
39 /com      next strip x = 204 to 408 Lines D to E
40 /com
41 /com      Select all nodes in pad only
42 /com
43 esel,type,2
44 nelem
45 /com
46 /com      select strip Z direction
47 /com
48 nsel,r,loc,x,203.9,408.1
49 enode,1
50 /com
51 /com      internal forces at Z = 0.0      LINE 5 1/2
52 /com
53 nsel,r,loc,z,-0.1,0.1
54 spoint,,306,-48.0,0.0
55 fsum
56 /com *****
57 /com *****
58 /com
59 /COM      SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS
60 /COM
61 /com      Select all nodes in pad only
62 /com
63 esel,type,2
64 nelem
65 /com
66 /com      select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6
67 /com
68 nsel,r,loc,z,-0.1,102.1
69 enode,1
70 /com
71 /com      internal forces at x = 0.0      LINE C
72 /com
73 nsel,r,loc,x,-0.1,0.1
74 spoint,,0.0,-48.0,51.0
75 fsum
76 nelem
77 /com
78 /com      next strip z = 102 to 306 Lines 6 to 7
79 /com
80 /com
81 /com      Select all nodes in pad only
82 /com
83 esel,type,2
84 nelem
85 /com
86 /com      select strip x direction z = 102 to 306
87 /com
88 nsel,r,loc,z,101.9,306.1
89 enode,1
90 /com
91 /com      internal forces at x = 0.0      LINE C
92 /com

```



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Appendix FPad-TH to Calculation PGE-009-CALC-006

```

93 nsel,r,loc,x,-0.1,0.1
94 spoint,,0.0,-48.0,204.0
95 fsum
96 nelem
97 /com
98 /com      next strip z = 306 to 510 Lines 7 to 8
99 /com
100 /com
101 /com      Select all nodes in pad only
102 /com
103 esel,type,2
104 nelem
105 /com
106 /com      select strip x direction z = 306 to 510
107 /com
108 nsel,r,loc,z,305.9,510.1
109 enode,1
110 /com
111 /com      internal forces at x = 0.0      LINE C
112 /com
113 nsel,r,loc,x,-0.1,0.1
114 spoint,,0.0,-48.0,408.0
115 fsum
116 nelem
117 /com
118 /com      next strip z = 510 to 630 Lines 8 to 10
119 /com
120 /com
121 /com      Select all nodes in pad only
122 /com
123 esel,type,2
124 nelem
125 /com
126 /com      select strip x direction z = 510 to 630
127 /com
128 nsel,r,loc,z,509.9,630.1
129 enode,1
130 /com
131 /com      internal forces at x = 0.0      LINE C
132 /com
133 nsel,r,loc,x,-0.1,0.1
134 spoint,,0.0,-48.0,570.0
135 fsum
136 eall
137 nall
138 /com
139 /com *****
140 /com *****  LOAD CASE 2 *****
141 lcfile,2
142 lcase,2
143 /COM
144 /COM      SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS
145 /com
146 /com      Select all nodes in pad only
147 /com
148 esel,type,2
149 nelem

```



```
150 /com
151 /com      select strip Z direction x = 0 to 204 Lines C to D
152 /com
153 nsel,r,loc,x,-0.1,204.1
154 enode,1
155 /com
156 /com      internal forces at Z = 0.0      LINE 5 1/2
157 /com
158 nsel,r,loc,z,-0.1,0.1
159 spoint,,102,-48.0,0.0
160 fsum
161 /com      next strip x = 204 to 408 Lines D to E
162 /com
163 /com      Select all nodes in pad only
164 /com
165 esel,type,2
166 nelem
167 /com
168 /com      select strip Z direction
169 /com
170 nsel,r,loc,x,203.9,408.1
171 enode,1
172 /com
173 /com      internal forces at Z = 0.0      LINE 5 1/2
174 /com
175 nsel,r,loc,z,-0.1,0.1
176 spoint,,306,-48.0,0.0
177 fsum
178 /com *****
179 /com *****
180 /com
181 /COM      SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS
182 /COM
183 /com      Select all nodes in pad only
184 /com
185 esel,type,2
186 nelem
187 /com
188 /com      select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6
189 /com
190 nsel,r,loc,z,-0.1,102.1
191 enode,1
192 /com
193 /com      internal forces at x = 0.0      LINE C
194 /com
195 nsel,r,loc,x,-0.1,0.1
196 spoint,,0.0,-48.0,51.0
197 fsum
198 nelem
199 /com
200 /com      next strip z = 102 to 306 Lines 6 to 7
201 /com
202 /com
203 /com      Select all nodes in pad only
204 /com
205 esel,type,2
206 nelem
```

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## Appendix FPad-TH to Calculation PGE-009-CALC-006

```
207 /com
208 /com      select strip x direction z = 102 to 306
209 /com
210 nsel,r,loc,z,101.9,306.1
211 enode,1
212 /com
213 /com      internal forces at x = 0.0      LINE C
214 /com
215 nsel,r,loc,x,-0.1,0.1
216 spoint,,0.0,-48.0,204.0
217 fsum
218 nelem
219 /com
220 /com      next strip z = 306 to 510 Lines 7 to 8
221 /com
222 /com
223 /com      Select all nodes in pad only
224 /com
225 esel,type,2
226 nelem
227 /com
228 /com      select strip x direction z = 306 to 510
229 /com
230 nsel,r,loc,z,305.9,510.1
231 enode,1
232 /com
233 /com      internal forces at x = 0.0      LINE C
234 /com
235 nsel,r,loc,x,-0.1,0.1
236 spoint,,0.0,-48.0,408.0
237 fsum
238 nelem
239 /com
240 /com      next strip z = 510 to 630 Lines 8 to 10
241 /com
242 /com
243 /com      Select all nodes in pad only
244 /com
245 esel,type,2
246 nelem
247 /com
248 /com      select strip x direction z = 510 to 630
249 /com
250 nsel,r,loc,z,509.9,630.1
251 enode,1
252 /com
253 /com      internal forces at x = 0.0      LINE C
254 /com
255 nsel,r,loc,x,-0.1,0.1
256 spoint,,0.0,-48.0,570.0
257 fsum
258 eall
259 nall
260 /com
261 /com *****
262 /com ***** LOAD CASE 3 *****
263 lcfile,3
```



Appendix FPad-TH to Calculation PGE-009-CALC-006

```
264 lcase,3
265 /COM
266 /COM SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS
267 /com
268 /com Select all nodes in pad only
269 /com
270 esel,type,2
271 nelem
272 /com
273 /com select strip Z direction x = 0 to 204 Lines C to D
274 /com
275 nsel,r,loc,x,-0.1,204.1
276 enode,1
277 /com
278 /com internal forces at Z = 0.0 LINE 5 1/2
279 /com
280 nsel,r,loc,z,-0.1,0.1
281 spoint,,102,-48.0,0.0
282 fsum
283 /com next strip x = 204 to 408 Lines D to E
284 /com
285 /com Select all nodes in pad only
286 /com
287 esel,type,2
288 nelem
289 /com
290 /com select strip Z direction
291 /com
292 nsel,r,loc,x,203.9,408.1
293 enode,1
294 /com
295 /com internal forces at Z = 0.0 LINE 5 1/2
296 /com
297 nsel,r,loc,z,-0.1,0.1
298 spoint,,306,-48.0,0.0
299 fsum
300 /com *****
301 /com *****
302 /com
303 /COM SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS
304 /COM
305 /com Select all nodes in pad only
306 /com
307 esel,type,2
308 nelem
309 /com
310 /com select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6
311 /com
312 nsel,r,loc,z,-0.1,102.1
313 enode,1
314 /com
315 /com internal forces at x = 0.0 LINE C
316 /com
317 nsel,r,loc,x,-0.1,0.1
318 spoint,,0.0,-48.0,51.0
319 fsum
320 nelem
```



```
321 /com
322 /com      next strip z = 102 to 306 Lines 6 to 7
323 /com
324 /com
325 /com      Select all nodes in pad only
326 /com
327 esel,type,2
328 nelem
329 /com
330 /com      select strip x direction z = 102 to 306
331 /com
332 nsel,r,loc,z,101.9,306.1
333 enode,1
334 /com
335 /com      internal forces at x = 0.0      LINE C
336 /com
337 nsel,r,loc,x,-0.1,0.1
338 spoint,,0.0,-48.0,204.0
339 fsum
340 nelem
341 /com
342 /com      next strip z = 306 to 510 Lines 7 to 8
343 /com
344 /com
345 /com      Select all nodes in pad only
346 /com
347 esel,type,2
348 nelem
349 /com
350 /com      select strip x direction z = 306 to 510
351 /com
352 nsel,r,loc,z,305.9,510.1
353 enode,1
354 /com
355 /com      internal forces at x = 0.0      LINE C
356 /com
357 nsel,r,loc,x,-0.1,0.1
358 spoint,,0.0,-48.0,408.0
359 fsum
360 nelem
361 /com
362 /com      next strip z = 510 to 630 Lines 8 to 10
363 /com
364 /com
365 /com      Select all nodes in pad only
366 /com
367 esel,type,2
368 nelem
369 /com
370 /com      select strip x direction z = 510 to 630
371 /com
372 nsel,r,loc,z,509.9,630.1
373 enode,1
374 /com
375 /com      internal forces at x = 0.0      LINE C
376 /com
377 nsel,r,loc,x,-0.1,0.1
```



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**Appendix FPad-TH to Calculation PGE-009-CALC-006**

```

378 spoint,,0.0,-48.0,570.0
379 fsum
380 eall
381 nall
382 /com
383 /com *****
384 /com ***** LOAD CASE 4 *****
385 lcfile,4
386 lcase,4
387 /COM
388 /COM SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS
389 /com
390 /com Select all nodes in pad only
391 /com
392 esel,type,2
393 nelem
394 /com
395 /com select strip Z direction x = 0 to 204 Lines C to D
396 /com
397 nsel,r,loc,x,-0.1,204.1
398 enode,1
399 /com
400 /com internal forces at Z = 0.0 LINE 5 1/2
401 /com
402 nsel,r,loc,z,-0.1,0.1
403 spoint,,102,-48.0,0.0
404 fsum
405 /com next strip x = 204 to 408 Lines D to E
406 /com
407 /com Select all nodes in pad only
408 /com
409 esel,type,2
410 nelem
411 /com
412 /com select strip Z direction
413 /com
414 nsel,r,loc,x,203.9,408.1
415 enode,1
416 /com
417 /com internal forces at Z = 0.0 LINE 5 1/2
418 /com
419 nsel,r,loc,z,-0.1,0.1
420 spoint,,306,-48.0,0.0
421 fsum
422 /com *****
423 /com *****
424 /com
425 /COM SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS
426 /COM
427 /com Select all nodes in pad only
428 /com
429 esel,type,2
430 nelem
431 /com
432 /com select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6
433 /com
434 nsel,r,loc,z,-0.1,102.1
    
```





```
435 enode,1
436 /com
437 /com      internal forces at x = 0.0      LINE C
438 /com
439 nsel,r,loc,x,-0.1,0.1
440 spoint,,0.0,-48.0,51.0
441 fsum
442 nelem
443 /com
444 /com      next strip z = 102 to 306 Lines 6 to 7
445 /com
446 /com
447 /com      Select all nodes in pad only
448 /com
449 esel,type,2
450 nelem
451 /com
452 /com      select strip x direction z = 102 to 306
453 /com
454 nsel,r,loc,z,101.9,306.1
455 enode,1
456 /com
457 /com      internal forces at x = 0.0      LINE C
458 /com
459 nsel,r,loc,x,-0.1,0.1
460 spoint,,0.0,-48.0,204.0
461 fsum
462 nelem
463 /com
464 /com      next strip z = 306 to 510 Lines 7 to 8
465 /com
466 /com
467 /com      Select all nodes in pad only
468 /com
469 esel,type,2
470 nelem
471 /com
472 /com      select strip x direction z = 306 to 510
473 /com
474 nsel,r,loc,z,305.9,510.1
475 enode,1
476 /com
477 /com      internal forces at x = 0.0      LINE C
478 /com
479 nsel,r,loc,x,-0.1,0.1
480 spoint,,0.0,-48.0,408.0
481 fsum
482 nelem
483 /com
484 /com      next strip z = 510 to 630 Lines 8 to 10
485 /com
486 /com
487 /com      Select all nodes in pad only
488 /com
489 esel,type,2
490 nelem
491 /com
```



```

492 /com      select strip x direction z = 510 to 630
493 /com
494 nsel,r,loc,z,509.9,630.1
495 enode,1
496 /com
497 /com      internal forces at x = 0.0      LINE C
498 /com
499 nsel,r,loc,x,-0.1,0.1
500 spoint,,0.0,-48.0,570.0
501 fsum
502 eall
503 nall
504 /com
505 /com *****
506 /com ***** LOAD CASE 5 *****
507 lcfile,5
508 lcase,5
509 /COM
510 /COM      SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS
511 /com
512 /com      Select all nodes in pad only
513 /com
514 esel,type,2
515 nelem
516 /com
517 /com      select strip Z direction x = 0 to 204 Lines C to D
518 /com
519 nsel,r,loc,x,-0.1,204.1
520 enode,1
521 /com
522 /com      internal forces at Z = 0.0      LINE 5 1/2
523 /com
524 nsel,r,loc,z,-0.1,0.1
525 spoint,,102,-48.0,0.0
526 fsum
527 /com      next strip x = 204 to 408 Lines D to E
528 /com
529 /com      Select all nodes in pad only
530 /com
531 esel,type,2
532 nelem
533 /com
534 /com      select strip Z direction
535 /com
536 nsel,r,loc,x,203.9,408.1
537 enode,1
538 /com
539 /com      internal forces at Z = 0.0      LINE 5 1/2
540 /com
541 nsel,r,loc,z,-0.1,0.1
542 spoint,,306,-48.0,0.0
543 fsum
544 /com *****
545 /com *****
546 /com
547 /COM      SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS
548 /COM

```



```
549 /com      Select all nodes in pad only
550 /com
551 esel,type,2
552 nelem
553 /com
554 /com      select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6
555 /com
556 nsel,r,loc,z,-0.1,102.1
557 enode,1
558 /com
559 /com      internal forces at x = 0.0      LINE C
560 /com
561 nsel,r,loc,x,-0.1,0.1
562 spoint,,0.0,-48.0,51.0
563 fsum
564 nelem
565 /com
566 /com      next strip z = 102 to 306 Lines 6 to 7
567 /com
568 /com
569 /com      Select all nodes in pad only
570 /com
571 esel,type,2
572 nelem
573 /com
574 /com      select strip x direction z = 102 to 306
575 /com
576 nsel,r,loc,z,101.9,306.1
577 enode,1
578 /com
579 /com      internal forces at x = 0.0      LINE C
580 /com
581 nsel,r,loc,x,-0.1,0.1
582 spoint,,0.0,-48.0,204.0
583 fsum
584 nelem
585 /com
586 /com      next strip z = 306 to 510 Lines 7 to 8
587 /com
588 /com
589 /com      Select all nodes in pad only
590 /com
591 esel,type,2
592 nelem
593 /com
594 /com      select strip x direction z = 306 to 510
595 /com
596 nsel,r,loc,z,305.9,510.1
597 enode,1
598 /com
599 /com      internal forces at x = 0.0      LINE C
600 /com
601 nsel,r,loc,x,-0.1,0.1
602 spoint,,0.0,-48.0,408.0
603 fsum
604 nelem
605 /com
```



Appendix FPad-TH to Calculation PGE-009-CALC-006

```
606 /com      next strip z = 510 to 630 Lines 8 to 10
607 /com
608 /com
609 /com      Select all nodes in pad only
610 /com
611 esel,type,2
612 nelem
613 /com
614 /com      select strip x direction z = 510 to 630
615 /com
616 nsel,r,loc,z,509.9,630.1
617 enode,1
618 /com
619 /com      internal forces at x = 0.0      LINE C
620 /com
621 nsel,r,loc,x,-0.1,0.1
622 spoint,,0.0,-48.0,570.0
623 fsum
624 eall
625 nall
626 /com
627 /com *****
628 /com ***** LOAD CASE 6 *****
629 lcfile,6
630 lcase,6
631 /COM
632 /COM      SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS
633 /com
634 /com      Select all nodes in pad only
635 /com
636 esel,type,2
637 nelem
638 /com
639 /com      select strip Z direction x = 0 to 204 Lines C to D
640 /com
641 nsel,r,loc,x,-0.1,204.1
642 enode,1
643 /com
644 /com      internal forces at Z = 0.0      LINE 5 1/2
645 /com
646 nsel,r,loc,z,-0.1,0.1
647 spoint,,102,-48.0,0.0
648 fsum
649 /com      next strip x = 204 to 408 Lines D to E
650 /com
651 /com      Select all nodes in pad only
652 /com
653 esel,type,2
654 nelem
655 /com
656 /com      select strip Z direction
657 /com
658 nsel,r,loc,x,203.9,408.1
659 enode,1
660 /com
661 /com      internal forces at Z = 0.0      LINE 5 1/2
662 /com
```



```
663 nsel,r,loc,z,-0.1,0.1
664 spoint,,306,-48.0,0.0
665 fsum
666 /com *****
667 /com *****
668 /com
669 /COM SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS
670 /COM
671 /com Select all nodes in pad only
672 /com
673 esel,type,2
674 nelem
675 /com
676 /com select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6
677 /com
678 nsel,r,loc,z,-0.1,102.1
679 enode,1
680 /com
681 /com internal forces at x = 0.0 LINE C
682 /com
683 nsel,r,loc,x,-0.1,0.1
684 spoint,,0.0,-48.0,51.0
685 fsum
686 nelem
687 /com
688 /com next strip z = 102 to 306 Lines 6 to 7
689 /com
690 /com
691 /com Select all nodes in pad only
692 /com
693 esel,type,2
694 nelem
695 /com
696 /com select strip x direction z = 102 to 306
697 /com
698 nsel,r,loc,z,101.9,306.1
699 enode,1
700 /com
701 /com internal forces at x = 0.0 LINE C
702 /com
703 nsel,r,loc,x,-0.1,0.1
704 spoint,,0.0,-48.0,204.0
705 fsum
706 nelem
707 /com
708 /com next strip z = 306 to 510 Lines 7 to 8
709 /com
710 /com
711 /com Select all nodes in pad only
712 /com
713 esel,type,2
714 nelem
715 /com
716 /com select strip x direction z = 306 to 510
717 /com
718 nsel,r,loc,z,305.9,510.1
719 enode,1
```



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**Appendix FPad-TH to Calculation PGE-009-CALC-006**

```

720 /com
721 /com      internal forces at x = 0.0      LINE C
722 /com
723 nsel,r,loc,x,-0.1,0.1
724 spoint,,0.0,-48.0,408.0
725 fsum
726 nelem
727 /com
728 /com      next strip z = 510 to 630 Lines 8 to 10
729 /com
730 /com
731 /com      Select all nodes in pad only
732 /com
733 esel,type,2
734 nelem
735 /com
736 /com      select strip x direction z = 510 to 630
737 /com
738 nsel,r,loc,z,509.9,630.1
739 enode,1
740 /com
741 /com      internal forces at x = 0.0      LINE C
742 /com
743 nsel,r,loc,x,-0.1,0.1
744 spoint,,0.0,-48.0,570.0
745 fsum
746 eall
747 nall
748 /com
749 /com *****
750 /com ***** LOAD CASE 7 *****
751 lcfile,7
752 lcase,7
753 /COM
754 /COM      SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS
755 /com
756 /com      Select all nodes in pad only
757 /com
758 esel,type,2
759 nelem
760 /com
761 /com      select strip Z direction x = 0 to 204 Lines C to D
762 /com
763 nsel,r,loc,x,-0.1,204.1
764 enode,1
765 /com
766 /com      internal forces at Z = 0.0      LINE 5 1/2
767 /com
768 nsel,r,loc,z,-0.1,0.1
769 spoint,,102,-48.0,0.0
770 fsum
771 /com      next strip x = 204 to 408 Lines D to E
772 /com
773 /com      Select all nodes in pad only
774 /com
775 esel,type,2
776 nelem

```



```
777 /com
778 /com      select strip Z direction
779 /com
780 nsel,r,loc,x,203.9,408.1
781 enode,1
782 /com
783 /com      internal forces at Z = 0.0      LINE 5 1/2
784 /com
785 nsel,r,loc,z,-0.1,0.1
786 spoint,,306,-48.0,0.0
787 fsum
788 /com *****
789 /com *****
790 /com
791 /COM      SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS
792 /COM
793 /com      Select all nodes in pad only
794 /com
795 esel,type,2
796 nelem
797 /com
798 /com      select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6
799 /com
800 nsel,r,loc,z,-0.1,102.1
801 enode,1
802 /com
803 /com      internal forces at x = 0.0      LINE C
804 /com
805 nsel,r,loc,x,-0.1,0.1
806 spoint,,0.0,-48.0,51.0
807 fsum
808 nelem
809 /com
810 /com      next strip z = 102 to 306 Lines 6 to 7
811 /com
812 /com
813 /com      Select all nodes in pad only
814 /com
815 esel,type,2
816 nelem
817 /com
818 /com      select strip x direction z = 102 to 306
819 /com
820 nsel,r,loc,z,101.9,306.1
821 enode,1
822 /com
823 /com      internal forces at x = 0.0      LINE C
824 /com
825 nsel,r,loc,x,-0.1,0.1
826 spoint,,0.0,-48.0,204.0
827 fsum
828 nelem
829 /com
830 /com      next strip z = 306 to 510 Lines 7 to 8
831 /com
832 /com
833 /com      Select all nodes in pad only
```



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Appendix FPad-TH to Calculation PGE-009-CALC-006

```

834 /com
835 esel,type,2
836 nelem
837 /com
838 /com      select strip x direction z = 306 to 510
839 /com
840 nsel,r,loc,z,305.9,510.1
841 enode,1
842 /com
843 /com      internal forces at x = 0.0      LINE C
844 /com
845 nsel,r,loc,x,-0.1,0.1
846 spoint,,0.0,-48.0,408.0
847 fsum
848 nelem
849 /com
850 /com      next strip z = 510 to 630 Lines 8 to 10
851 /com
852 /com
853 /com      Select all nodes in pad only
854 /com
855 esel,type,2
856 nelem
857 /com
858 /com      select strip x direction z = 510 to 630
859 /com
860 nsel,r,loc,z,509.9,630.1
861 enode,1
862 /com
863 /com      internal forces at x = 0.0      LINE C
864 /com
865 nsel,r,loc,x,-0.1,0.1
866 spoint,,0.0,-48.0,570.0
867 fsum
868 eall
869 nall
870 /com
871 /com *****
872 /com *****  LOAD CASE 8 *****
873 lcfile,8
874 lcase,8
875 /COM
876 /COM      SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS
877 /com
878 /com      Select all nodes in pad only
879 /com
880 esel,type,2
881 nelem
882 /com
883 /com      select strip Z direction x = 0 to 204 Lines C to D
884 /com
885 nsel,r,loc,x,-0.1,204.1
886 enode,1
887 /com
888 /com      internal forces at Z = 0.0      LINE 5 1/2
889 /com
890 nsel,r,loc,z,-0.1,0.1

```





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**Appendix FPad-TH to Calculation PGE-009-CALC-006**

```

891 spoint,,102,-48.0,0.0
892 fsum
893 /com      next strip x = 204 to 408 Lines D to E
894 /com
895 /com      Select all nodes in pad only
896 /com
897 esel,type,2
898 nelem
899 /com
900 /com      select strip Z direction
901 /com
902 nsel,r,loc,x,203.9,408.1
903 enode,1
904 /com
905 /com      internal forces at Z = 0.0      LINE 5 1/2
906 /com
907 nsel,r,loc,z,-0.1,0.1
908 spoint,,306,-48.0,0.0
909 fsum
910 /com *****
911 /com *****
912 /com
913 /COM      SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS
914 /COM
915 /com      Select all nodes in pad only
916 /com
917 esel,type,2
918 nelem
919 /com
920 /com      select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6
921 /com
922 nsel,r,loc,z,-0.1,102.1
923 enode,1
924 /com
925 /com      internal forces at x = 0.0      LINE C
926 /com
927 nsel,r,loc,x,-0.1,0.1
928 spoint,,0.0,-48.0,51.0
929 fsum
930 nelem
931 /com
932 /com      next strip z = 102 to 306 Lines 6 to 7
933 /com
934 /com
935 /com      Select all nodes in pad only
936 /com
937 esel,type,2
938 nelem
939 /com
940 /com      select strip x direction z = 102 to 306
941 /com
942 nsel,r,loc,z,101.9,306.1
943 enode,1
944 /com
945 /com      internal forces at x = 0.0      LINE C
946 /com
947 nsel,r,loc,x,-0.1,0.1

```



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Appendix FPad-TH to Calculation PGE-009-CALC-006

```

948 spoint,,0.0,-48.0,204.0
949 fsum
950 nelem
951 /com
952 /com      next strip z = 306 to 510 Lines 7 to 8
953 /com
954 /com
955 /com      Select all nodes in pad only
956 /com
957 esel,type,2
958 nelem
959 /com
960 /com      select strip x direction z = 306 to 510
961 /com
962 nsel,r,loc,z,305.9,510.1
963 enode,1
964 /com
965 /com      internal forces at x = 0.0      LINE C
966 /com
967 nsel,r,loc,x,-0.1,0.1
968 spoint,,0.0,-48.0,408.0
969 fsum
970 nelem
971 /com
972 /com      next strip z = 510 to 630 Lines 8 to 10
973 /com
974 /com
975 /com      Select all nodes in pad only
976 /com
977 esel,type,2
978 nelem
979 /com
980 /com      select strip x direction z = 510 to 630
981 /com
982 nsel,r,loc,z,509.9,630.1
983 enode,1
984 /com
985 /com      internal forces at x = 0.0      LINE C
986 /com
987 nsel,r,loc,x,-0.1,0.1
988 spoint,,0.0,-48.0,570.0
989 fsum
990 eall
991 nall
992 /com
993 /com *****
994 /com ***** LOAD CASE 9 *****
995 lcfile,9
996 lcase,9
997 /COM
998 /COM      SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS
999 /com
1000 /com      Select all nodes in pad only
1001 /com
1002 esel,type,2
1003 nelem
1004 /com

```



```
1005 /com      select strip Z direction x = 0 to 204 Lines C to D
1006 /com
1007 nsel,r,loc,x,-0.1,204.1
1008 enode,1
1009 /com
1010 /com      internal forces at Z = 0.0      LINE 5 1/2
1011 /com
1012 nsel,r,loc,z,-0.1,0.1
1013 spoint,,102,-48.0,0.0
1014 fsum
1015 /com      next strip x = 204 to 408 Lines D to E
1016 /com
1017 /com      Select all nodes in pad only
1018 /com
1019 esel,type,2
1020 nelem
1021 /com
1022 /com      select strip Z direction
1023 /com
1024 nsel,r,loc,x,203.9,408.1
1025 enode,1
1026 /com
1027 /com      internal forces at Z = 0.0      LINE 5 1/2
1028 /com
1029 nsel,r,loc,z,-0.1,0.1
1030 spoint,,306,-48.0,0.0
1031 fsum
1032 /com *****
1033 /com *****
1034 /com
1035 /COM      SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS
1036 /COM
1037 /com      Select all nodes in pad only
1038 /com
1039 esel,type,2
1040 nelem
1041 /com
1042 /com      select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6
1043 /com
1044 nsel,r,loc,z,-0.1,102.1
1045 enode,1
1046 /com
1047 /com      internal forces at x = 0.0      LINE C
1048 /com
1049 nsel,r,loc,x,-0.1,0.1
1050 spoint,,0.0,-48.0,51.0
1051 fsum
1052 nelem
1053 /com
1054 /com      next strip z = 102 to 306 Lines 6 to 7
1055 /com
1056 /com
1057 /com      Select all nodes in pad only
1058 /com
1059 esel,type,2
1060 nelem
1061 /com
```



Appendix FPad-TH to Calculation PGE-009-CALC-006

```
1062 /com      select strip x direction z = 102 to 306
1063 /com
1064 nsel,r,loc,z,101.9,306.1
1065 enode,1
1066 /com
1067 /com      internal forces at x = 0.0      LINE C
1068 /com
1069 nsel,r,loc,x,-0.1,0.1
1070 spoint,,0.0,-48.0,204.0
1071 fsum
1072 nelem
1073 /com
1074 /com      next strip z = 306 to 510 Lines 7 to 8
1075 /com
1076 /com
1077 /com      Select all nodes in pad only
1078 /com
1079 esel,type,2
1080 nelem
1081 /com
1082 /com      select strip x direction z = 306 to 510
1083 /com
1084 nsel,r,loc,z,305.9,510.1
1085 enode,1
1086 /com
1087 /com      internal forces at x = 0.0      LINE C
1088 /com
1089 nsel,r,loc,x,-0.1,0.1
1090 spoint,,0.0,-48.0,408.0
1091 fsum
1092 nelem
1093 /com
1094 /com      next strip z = 510 to 630 Lines 8 to 10
1095 /com
1096 /com
1097 /com      Select all nodes in pad only
1098 /com
1099 esel,type,2
1100 nelem
1101 /com
1102 /com      select strip x direction z = 510 to 630
1103 /com
1104 nsel,r,loc,z,509.9,630.1
1105 enode,1
1106 /com
1107 /com      internal forces at x = 0.0      LINE C
1108 /com
1109 nsel,r,loc,x,-0.1,0.1
1110 spoint,,0.0,-48.0,570.0
1111 fsum
1112 eall
1113 nall
1114 /com
1115 /com *****
1116 /com ***** LOAD CASE 10 *****
1117 lcfile,10
1118 lcase,10
```



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**Appendix FPad-TH to Calculation PGE-009-CALC-006**

```

1119 /COM
1120 /COM SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS
1121 /com
1122 /com Select all nodes in pad only
1123 /com
1124 esel,type,2
1125 nelem
1126 /com
1127 /com select strip Z direction x = 0 to 204 Lines C to D
1128 /com
1129 nsel,r,loc,x,-0.1,204.1
1130 enode,1
1131 /com
1132 /com internal forces at Z = 0.0 LINE 5 1/2
1133 /com
1134 nsel,r,loc,z,-0.1,0.1
1135 spoint,,102,-48.0,0.0
1136 fsum
1137 /com next strip x = 204 to 408 Lines D to E
1138 /com
1139 /com Select all nodes in pad only
1140 /com
1141 esel,type,2
1142 nelem
1143 /com
1144 /com select strip Z direction
1145 /com
1146 nsel,r,loc,x,203.9,408.1
1147 enode,1
1148 /com
1149 /com internal forces at Z = 0.0 LINE 5 1/2
1150 /com
1151 nsel,r,loc,z,-0.1,0.1
1152 spoint,,306,-48.0,0.0
1153 fsum
1154 /com *****
1155 /com *****
1156 /com
1157 /COM SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS
1158 /COM
1159 /com Select all nodes in pad only
1160 /com
1161 esel,type,2
1162 nelem
1163 /com
1164 /com select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6
1165 /com
1166 nsel,r,loc,z,-0.1,102.1
1167 enode,1
1168 /com
1169 /com internal forces at x = 0.0 LINE C
1170 /com
1171 nsel,r,loc,x,-0.1,0.1
1172 spoint,,0.0,-48.0,51.0
1173 fsum
1174 nelem
1175 /com

```



**ENERCON  
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**Appendix FPad-TH to Calculation PGE-009-CALC-006**

```

1176 /com      next strip z = 102 to 306 Lines 6 to 7
1177 /com
1178 /com
1179 /com      Select all nodes in pad only
1180 /com
1181 esel,type,2
1182 nelem
1183 /com
1184 /com      select strip x direction z = 102 to 306
1185 /com
1186 nsel,r,loc,z,101.9,306.1
1187 enode,1
1188 /com
1189 /com      internal forces at x = 0.0      LINE C
1190 /com
1191 nsel,r,loc,x,-0.1,0.1
1192 spoint,,0.0,-48.0,204.0
1193 fsum
1194 nelem
1195 /com
1196 /com      next strip z = 306 to 510 Lines 7 to 8
1197 /com
1198 /com
1199 /com      Select all nodes in pad only
1200 /com
1201 esel,type,2
1202 nelem
1203 /com
1204 /com      select strip x direction z = 306 to 510
1205 /com
1206 nsel,r,loc,z,305.9,510.1
1207 enode,1
1208 /com
1209 /com      internal forces at x = 0.0      LINE C
1210 /com
1211 nsel,r,loc,x,-0.1,0.1
1212 spoint,,0.0,-48.0,408.0
1213 fsum
1214 nelem
1215 /com
1216 /com      next strip z = 510 to 630 Lines 8 to 10
1217 /com
1218 /com
1219 /com      Select all nodes in pad only
1220 /com
1221 esel,type,2
1222 nelem
1223 /com
1224 /com      select strip x direction z = 510 to 630
1225 /com
1226 nsel,r,loc,z,509.9,630.1
1227 enode,1
1228 /com
1229 /com      internal forces at x = 0.0      LINE C
1230 /com
1231 nsel,r,loc,x,-0.1,0.1
1232 spoint,,0.0,-48.0,570.0

```



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**Appendix FPad-TH to Calculation PGE-009-CALC-006**

```

1233 fsum
1234 eall
1235 nall
1236 /com
1237 /com *****
1238 /com ***** LOAD CASE 11 *****
1239 lcfile,11
1240 lcase,11
1241 /COM
1242 /COM SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS
1243 /com
1244 /com Select all nodes in pad only
1245 /com
1246 esel,type,2
1247 nelem
1248 /com
1249 /com select strip Z direction x = 0 to 204 Lines C to D
1250 /com
1251 nsel,r,loc,x,-0.1,204.1
1252 enode,1
1253 /com
1254 /com internal forces at Z = 0.0 LINE 5 1/2
1255 /com
1256 nsel,r,loc,z,-0.1,0.1
1257 spoint,,102,-48.0,0.0
1258 fsum
1259 /com next strip x = 204 to 408 Lines D to E
1260 /com
1261 /com Select all nodes in pad only
1262 /com
1263 esel,type,2
1264 nelem
1265 /com
1266 /com select strip Z direction
1267 /com
1268 nsel,r,loc,x,203.9,408.1
1269 enode,1
1270 /com
1271 /com internal forces at Z = 0.0 LINE 5 1/2
1272 /com
1273 nsel,r,loc,z,-0.1,0.1
1274 spoint,,306,-48.0,0.0
1275 fsum
1276 /com *****
1277 /com *****
1278 /com
1279 /COM SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS
1280 /COM
1281 /com Select all nodes in pad only
1282 /com
1283 esel,type,2
1284 nelem
1285 /com
1286 /com select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6
1287 /com
1288 nsel,r,loc,z,-0.1,102.1
1289 enode,1

```



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## Appendix FPad-TH to Calculation PGE-009-CALC-006

```
1290 /com
1291 /com      internal forces at x = 0.0      LINE C
1292 /com
1293 nsel,r,loc,x,-0.1,0.1
1294 spoint,,0.0,-48.0,51.0
1295 fsum
1296 nelem
1297 /com
1298 /com      next strip z = 102 to 306 Lines 6 to 7
1299 /com
1300 /com
1301 /com      Select all nodes in pad only
1302 /com
1303 esel,type,2
1304 nelem
1305 /com
1306 /com      select strip x direction z = 102 to 306
1307 /com
1308 nsel,r,loc,z,101.9,306.1
1309 enode,1
1310 /com
1311 /com      internal forces at x = 0.0      LINE C
1312 /com
1313 nsel,r,loc,x,-0.1,0.1
1314 spoint,,0.0,-48.0,204.0
1315 fsum
1316 nelem
1317 /com
1318 /com      next strip z = 306 to 510 Lines 7 to 8
1319 /com
1320 /com
1321 /com      Select all nodes in pad only
1322 /com
1323 esel,type,2
1324 nelem
1325 /com
1326 /com      select strip x direction z = 306 to 510
1327 /com
1328 nsel,r,loc,z,305.9,510.1
1329 enode,1
1330 /com
1331 /com      internal forces at x = 0.0      LINE C
1332 /com
1333 nsel,r,loc,x,-0.1,0.1
1334 spoint,,0.0,-48.0,408.0
1335 fsum
1336 nelem
1337 /com
1338 /com      next strip z = 510 to 630 Lines 8 to 10
1339 /com
1340 /com
1341 /com      Select all nodes in pad only
1342 /com
1343 esel,type,2
1344 nelem
1345 /com
1346 /com      select strip x direction z = 510 to 630
```





**ENERCON  
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**Appendix FPad-TH to Calculation PGE-009-CALC-006**

```

1347 /com
1348 nsel,r,loc,z,509.9,630.1
1349 enode,1
1350 /com
1351 /com      internal forces at x = 0.0      LINE C
1352 /com
1353 nsel,r,loc,x,-0.1,0.1
1354 spoint,,0.0,-48.0,570.0
1355 fsum
1356 eall
1357 nall
1358 /com
1359 /com *****
1360 /com *****
1361 fini
1362 /exit,nosave
1363
1364
1365
1366
1367

```

RUN SETUP PROCEDURE FROM FILE= C:\Program Files\Ansys Inc\ANSYS61\docu\start61.ans

/INPUT FILE= C:\Program Files\Ansys Inc\ANSYS61\docu\start61.ans LINE= 0

This routine processes load results data for the  
evaluation of pad internal forces and moments

\*\*\*\*\*  
\*\*\*\*\*

CURRENT JOBNAME REDEFINED AS Pad-Th

RESUME ANSYS DATA FROM FILE NAME=Pad-Th.db

\*\*\* ANSYS GLOBAL STATUS \*\*\*

TITLE = DELTA T 6.125 TO 7.875 DAYS  
ANALYSIS TYPE = STATIC (STEADY-STATE)  
NUMBER OF ELEMENT TYPES = 5

8812 ELEMENTS CURRENTLY SELECTED.	MAX ELEMENT NUMBER =	9341
10212 NODES CURRENTLY SELECTED.	MAX NODE NUMBER =	10212
166 KEYPOINTS CURRENTLY SELECTED.	MAX KEYPOINT NUMBER =	166
339 LINES CURRENTLY SELECTED.	MAX LINE NUMBER =	339
2 AREAS CURRENTLY SELECTED.	MAX AREA NUMBER =	224
48 VOLUMES CURRENTLY SELECTED.	MAX VOL. NUMBER =	48
22 COMPONENTS CURRENTLY DEFINED		

MAXIMUM LINEAR PROPERTY NUMBER	=	12
MAXIMUM REAL CONSTANT SET NUMBER	=	1
ACTIVE COORDINATE SYSTEM	=	0 (CARTESIAN)
MAXIMUM COUPLED D.O.F. SET NUMBER	=	367
NUMBER OF SPECIFIED CONSTRAINTS	=	4657
CURRENT LOAD CASE =	0 OF	0



**ENERCON  
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**Appendix FPad-TH to Calculation PGE-009-CALC-006**

LOAD SET = 11  
SUBSTEP = 1  
TIME/FREQ = 11.000

INITIAL JOBNAME = PAD-TH  
CURRENT JOBNAME = Pad-Th

PRINT HEADER  
DO NOT PRINT SUBTITLE(S)  
DO NOT PRINT LOAD STEP ID  
DO NOT PRINT NOTE LINE(S)  
PRINT COLUMN HEADER LABELS  
DO NOT PRINT REPORT TOTALS

1

\*\*\*\*\* ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 \*\*\*\*\*  
ANSYS/Mechanical U  
00245050 VERSION=INTEL NT 17:41:30 JUN 10, 2002 CP= 0.671

DELTA T 6.125 TO 7.875 DAYS

\*\*\*\*\* ANSYS RESULTS INTERPRETATION (POST1) \*\*\*\*\*

\*\*\* WARNING \*\*\* CP= 0.671 TIME= 17:41:30  
The current solution may have been produced using different model or boundary condition data than is currently stored. POST1 results may be erroneous unless you perform a new solution using the stored data.

\*\*\* NOTE \*\*\* CP= 0.671 TIME= 17:41:30  
Reading results into the database (SET command) will update the current displacement and force boundary conditions in the database with the values from the results file for that load set. Note that any subsequent solutions will use these values unless action is taken to either SAVE the current values or not overwrite them (/EXIT,NOSAVE).

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

10212 NODES (OF 10212 DEFINED) SELECTED BY NALL COMMAND.

\*\*\*\*\*  
\*\*\*\*\* LOAD CASE 1 \*\*\*\*\*

LOAD CASE 1 IS LOAD STEP 1 SUBSTEP 1 COMPLEX= 0  
FILE= Pad-Th.101  
PAD RESPONSE AT END OF 0.25 DAYS

COPY LOAD CASE 1 FROM FILE TO DATABASE

SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1



Appendix FPad-TH to Calculation PGE-009-CALC-006

```
1870 ELEMENTS (OF      8812 DEFINED) SELECTED BY ESEL COMMAND.
SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF      10212 DEFINED) SELECTED FROM
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = 0 to 204 Lines C to D

RESELECT    FOR ITEM=LOC COMPONENT=X      BETWEEN-0.10000      AND      204.10
KABS= 0.  TOLERANCE= 0.204200E-05

1296 NODES (OF      10212 DEFINED) SELECTED BY NSEL COMMAND.
SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1020 ELEMENTS (OF      8812 DEFINED) SELECTED FROM
1296 SELECTED NODES BY ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2

RESELECT    FOR ITEM=LOC COMPONENT=Z      BETWEEN-0.10000      AND      0.10000
KABS= 0.  TOLERANCE= 0.200000E-08

72  NODES (OF      10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION=      0
MOMENT SUMMATION LOCATION= 102.000      -48.0000      0.00000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 685.3717
FY = -18754.77
FZ = -2078832.
MX = -1793625.
MY = -853710.9
MZ = -55366.15

SUMMATION POINT= 102.00      -48.000      0.0000
next strip x = 204 to 408 Lines D to E

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM      2 TO      2 BY      1

1870 ELEMENTS (OF      8812 DEFINED) SELECTED BY ESEL COMMAND.
SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF      10212 DEFINED) SELECTED FROM
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction
```



**ENERCON SERVICES, INC.** Appendix FPad-TH to Calculation PGE-009-CALC-006

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 203.90 AND 408.10  
 KABS= 0. TOLERANCE= 0.204200E-05

1296 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1020 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
 1296 SELECTED NODES BY ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 0.10000  
 KABS= 0. TOLERANCE= 0.200000E-08

72 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
 MOMENT SUMMATION LOCATION= 306.000 -48.0000 0.00000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = 1360.950  
 FY = -22048.08  
 FZ = -1982198.  
 MX = 1003623.  
 MY = -1957071.  
 MZ = -210021.9

SUMMATION POINT= 306.00 -48.000 0.0000  
 \*\*\*\*\*  
 \*\*\*\*\*

SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
 1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 102.10  
 KABS= 0. TOLERANCE= 0.102200E-05

528 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.



Appendix FPad-TH to Calculation PGE-009-CALC-006

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

360 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
528 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

48 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 51.0000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -905053.1  
FY = -4617.376  
FZ = 175.4800  
MX = 11121.45  
MY = 28390.36  
MZ = 109421.3

SUMMATION POINT= 0.0000 -48.000 51.000

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

528 NODES (OF 10212 DEFINED) SELECTED FROM  
360 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 306 Lines 6 to 7

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 306

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 306.10  
KABS= 0. TOLERANCE= 0.204200E-05

924 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

720 ELEMENTS (OF 8812 DEFINED) SELECTED FROM



Appendix FPad-TH to Calculation PGE-009-CALC-006

924 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN=0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

84 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 204.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -1781997.  
FY = -10354.25  
FZ = -141.0585  
MX = 82217.06  
MY = 841364.6  
MZ = -502375.4

SUMMATION POINT= 0.0000 -48.000 204.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

924 NODES (OF 10212 DEFINED) SELECTED FROM  
720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 306 to 510 Lines 7 to 8

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 306 to 510

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 305.90 AND 510.10  
KABS= 0. TOLERANCE= 0.204200E-05

924 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

720 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
924 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C



Appendix FPad-TH to Calculation PGE-009-CALC-006

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

84 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 408.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -1728982.  
FY = -12856.76  
FZ = -5521.750  
MX = 26444.79  
MY = 938093.9  
MZ = -2079998.

SUMMATION POINT= 0.0000 -48.000 408.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

924 NODES (OF 10212 DEFINED) SELECTED FROM  
720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 510 to 630 Lines 8 to 10

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 510 to 630

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 509.90 AND 630.10  
KABS= 0. TOLERANCE= 0.120200E-05

396 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

240 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
396 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000



Appendix FPad-TH to Calculation PGE-009-CALC-006

KABS= 0. TOLERANCE= 0.200000E-08

36 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 570.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -987290.4  
FY = -6861.447  
FZ = -3867.426  
MX = -44663.73  
MY = 557030.9  
MZ = -2053499.

SUMMATION POINT= 0.0000 -48.000 570.00

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

10212 NODES (OF 10212 DEFINED) SELECTED BY NALL COMMAND.

\*\*\*\*\*  
\*\*\*\*\* LOAD CASE 2 \*\*\*\*\*

LOAD CASE 2 IS LOAD STEP 2 SUBSTEP 1 COMPLEX= 0  
FILE= Pad-Th.102  
PAD RESPONSE AT END OF 0.50 DAYS

COPY LOAD CASE 2 FROM FILE TO DATABASE

SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = 0 to 204 Lines C to D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 204.10  
KABS= 0. TOLERANCE= 0.204200E-05

1296 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1020 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
1296 SELECTED NODES BY ENOD COMMAND.





Appendix FPad-TH to Calculation PGE-009-CALC-006

internal forces at Z = 0.0 LINE 5 1/2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

72 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 102.000 -48.0000 0.00000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = 390.7760  
FY = -18871.17  
FZ = -3128490.  
MX = 0.4580134E+08  
MY = -841518.0  
MZ = -56356.21

SUMMATION POINT= 102.00 -48.000 0.0000

next strip x = 204 to 408 Lines D to E

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 203.90 AND 408.10  
KABS= 0. TOLERANCE= 0.204200E-05

1296 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1020 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
1296 SELECTED NODES BY ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

72 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0



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**Appendix FPad-TH to Calculation PGE-009-CALC-006**

MOMENT SUMMATION LOCATION= 306.000 -48.0000 0.00000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = 731.6981  
 FY = -21931.68  
 FZ = -3005009.  
 MX = 0.4706083E+08  
 MY = -4346383.  
 MZ = -203930.3

SUMMATION POINT= 306.00 -48.000 0.0000

\*\*\*\*\*  
 \*\*\*\*\*

SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
 1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 102.10  
 KABS= 0. TOLERANCE= 0.102200E-05

528 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

360 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
 528 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
 KABS= 0. TOLERANCE= 0.200000E-08

48 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
 MOMENT SUMMATION LOCATION= 0.00000 -48.0000 51.0000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -1403379.  
 FY = -4698.368  
 FZ = 85.16877  
 MX = 11595.81



Appendix FPad-TH to Calculation PGE-009-CALC-006

MY = 28039.29  
MZ = -0.2336882E+08

SUMMATION POINT= 0.0000 -48.000 51.000

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

528 NODES (OF 10212 DEFINED) SELECTED FROM  
360 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 306 Lines 6 to 7

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 306

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 306.10  
KABS= 0. TOLERANCE= 0.204200E-05

924 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

720 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
924 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

84 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 204.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -2780583.  
FY = -10514.51  
FZ = -898.7203  
MX = 88006.16  
MY = 788154.5  
MZ = -0.4745424E+08



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Appendix FPad-TH to Calculation PGE-009-CALC-006

SUMMATION POINT= 0.0000 -48.000 204.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

924 NODES (OF 10212 DEFINED) SELECTED FROM  
720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 306 to 510 Lines 7 to 8

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 306 to 510

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 305.90 AND 510.10  
KABS= 0. TOLERANCE= 0.204200E-05

924 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

720 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
924 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

84 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 408.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -2732894.  
FY = -13007.33  
FZ = -7274.508  
MX = 43815.04  
MY = 887889.5  
MZ = -0.4895788E+08

SUMMATION POINT= 0.0000 -48.000 408.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.



924 NODES (OF 10212 DEFINED) SELECTED FROM  
720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 510 to 630 Lines 8 to 10

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 510 to 630

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 509.90 AND 630.10  
KABS= 0. TOLERANCE= 0.120200E-05

396 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

240 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
396 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

36 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 570.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -1557871.  
FY = -6469.623  
FZ = -5070.177  
MX = -33749.52  
MY = 1846569.  
MZ = -0.2840759E+08

SUMMATION POINT= 0.0000 -48.000 570.00

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

10212 NODES (OF 10212 DEFINED) SELECTED BY NALL COMMAND.



Appendix FPad-TH to Calculation PGE-009-CALC-006

\*\*\*\*\*  
\*\*\*\*\* LOAD CASE 3 \*\*\*\*\*

LOAD CASE 3 IS LOAD STEP 3 SUBSTEP 1 COMPLEX= 0  
FILE= Pad-Th.103  
PAD RESPONSE AT END OF 0.625 DAYS

COPY LOAD CASE 3 FROM FILE TO DATABASE

SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = 0 to 204 Lines C to D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 204.10  
KABS= 0. TOLERANCE= 0.204200E-05

1296 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1020 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
1296 SELECTED NODES BY ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

72 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 102.000 -48.0000 0.00000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = 158.7429  
FY = -18977.20  
FZ = -3537558.  
MX = 0.6262547E+08  
MY = -820888.8  
MZ = -54365.53

SUMMATION POINT= 102.00 -48.000 0.0000



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**Appendix FPad-TH to Calculation PGE-009-CALC-006**

next strip x = 204 to 408 Lines D to E

Select all nodes in pad only

```
ESEL FOR LABEL= TYPE FROM      2 TO      2 BY      1
      1870 ELEMENTS (OF      8812 DEFINED) SELECTED BY ESEL COMMAND.
```

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

```
      2376 NODES (OF      10212 DEFINED) SELECTED FROM
      1870 SELECTED ELEMENTS BY NELE COMMAND.
```

select strip Z direction

```
RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 203.90 AND 408.10
      KABS= 0. TOLERANCE= 0.204200E-05
```

```
      1296 NODES (OF      10212 DEFINED) SELECTED BY NSEL COMMAND.
```

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

```
      1020 ELEMENTS (OF      8812 DEFINED) SELECTED FROM
      1296 SELECTED NODES BY ENOD COMMAND.
```

internal forces at Z = 0.0 LINE 5 1/2

```
RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 0.10000
      KABS= 0. TOLERANCE= 0.200000E-08
```

```
      72 NODES (OF      10212 DEFINED) SELECTED BY NSEL COMMAND.
```

```
NODE FOR MOMENT SUMMATION=      0
MOMENT SUMMATION LOCATION= 306.000      -48.0000      0.00000
```

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

```
FX = 276.0155
FY = -21825.65
FZ = -3405193.
MX = 0.6325457E+08
MY = -5260976.
MZ = -191896.0
```

```
SUMMATION POINT= 306.00      -48.000      0.0000
*****
*****
```

SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only

```
ESEL FOR LABEL= TYPE FROM      2 TO      2 BY      1
```



Appendix FPad-TH to Calculation PGE-009-CALC-006

```
1870 ELEMENTS (OF      8812 DEFINED) SELECTED BY ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF      10212 DEFINED) SELECTED FROM
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6

RESELECT    FOR ITEM=LOC COMPONENT=Z      BETWEEN-0.10000      AND      102.10
KABS= 0.  TOLERANCE= 0.102200E-05

528 NODES (OF      10212 DEFINED) SELECTED BY NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

360 ELEMENTS (OF      8812 DEFINED) SELECTED FROM
528 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT    FOR ITEM=LOC COMPONENT=X      BETWEEN-0.10000      AND      0.10000
KABS= 0.  TOLERANCE= 0.200000E-08

48 NODES (OF      10212 DEFINED) SELECTED BY NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=      0
MOMENT SUMMATION LOCATION= 0.00000      -48.0000      51.0000

***** SUMMATION OF TOTAL      FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = -1587648.
FY = -4785.072
FZ = 12.11722
MX = 11108.36
MY = 27252.13
MZ = -0.3179842E+08

SUMMATION POINT= 0.0000      -48.000      51.000

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

528 NODES (OF      10212 DEFINED) SELECTED FROM
360 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 306 Lines 6 to 7

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM      2 TO      2 BY      1

1870 ELEMENTS (OF      8812 DEFINED) SELECTED BY ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.
```





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Appendix FPad-TH to Calculation PGE-009-CALC-006

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 306

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 306.10  
KABS= 0. TOLERANCE= 0.204200E-05

924 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

720 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
924 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

84 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 204.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -3151194.  
FY = -10677.98  
FZ = -1517.810  
MX = 84311.30  
MY = 727314.9  
MZ = -0.6428689E+08

SUMMATION POINT= 0.0000 -48.000 204.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

924 NODES (OF 10212 DEFINED) SELECTED FROM  
720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 306 to 510 Lines 7 to 8

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.



Appendix FPad-TH to Calculation PGE-009-CALC-006

select strip x direction z = 306 to 510

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 305.90 AND 510.10  
KABS= 0. TOLERANCE= 0.204200E-05

924 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

720 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
924 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

84 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 408.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -3109534.  
FY = -13119.31  
FZ = -8627.524  
MX = 37107.79  
MY = 803540.0  
MZ = -0.6568244E+08

SUMMATION POINT= 0.0000 -48.000 408.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

924 NODES (OF 10212 DEFINED) SELECTED FROM  
720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 510 to 630 Lines 8 to 10

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 510 to 630



Appendix FPad-TH to Calculation PGE-009-CALC-006

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 509.90 AND 630.10
KABS= 0. TOLERANCE= 0.120200E-05

396 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

240 ELEMENTS (OF 8812 DEFINED) SELECTED FROM
396 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000
KABS= 0. TOLERANCE= 0.200000E-08

36 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 570.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -1773660.
FY = -6107.478
FZ = -5859.209
MX = -40359.07
MY = 2364694.
MZ = -0.3772636E+08

SUMMATION POINT= 0.0000 -48.000 570.00

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

10212 NODES (OF 10212 DEFINED) SELECTED BY NALL COMMAND.

\*\*\*\*\*
\*\*\*\*\* LOAD CASE 4 \*\*\*\*\*

LOAD CASE 4 IS LOAD STEP 4 SUBSTEP 1 COMPLEX= 0
FILE= Pad-Th.104
PAD RESPONSE AT END OF 1.125 DAYS

COPY LOAD CASE 4 FROM FILE TO DATABASE

SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.



Appendix FPad-TH to Calculation PGE-009-CALC-006

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = 0 to 204 Lines C to D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 204.10  
KABS= 0. TOLERANCE= 0.204200E-05

1296 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1020 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
1296 SELECTED NODES BY ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

72 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 102.000 -48.0000 0.00000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -243.4155  
FY = -19110.97  
FZ = -4816988.  
MX = 0.1212889E+09  
MY = -821991.1  
MZ = -60377.64

SUMMATION POINT= 102.00 -48.000 0.0000  
next strip x = 204 to 408 Lines D to E

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 203.90 AND 408.10  
KABS= 0. TOLERANCE= 0.204200E-05

1296 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.



Appendix FPad-TH to Calculation PGE-009-CALC-006

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1020 ELEMENTS (OF 8812 DEFINED) SELECTED FROM 1296 SELECTED NODES BY ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 0.10000 KABS= 0. TOLERANCE= 0.200000E-08

72 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0 MOMENT SUMMATION LOCATION= 306.000 -48.0000 0.00000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -647.9639
FY = -21691.88
FZ = -4648875.
MX = 0.1198743E+09
MY = -8277268.
MZ = -196093.2

SUMMATION POINT= 306.00 -48.000 0.0000
\*\*\*\*\*
\*\*\*\*\*

SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM 1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 102.10 KABS= 0. TOLERANCE= 0.102200E-05

528 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

360 ELEMENTS (OF 8812 DEFINED) SELECTED FROM 528 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C



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**Appendix FPad-TH to Calculation PGE-009-CALC-006**

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

48 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 51.0000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -2189505.  
FY = -4856.138  
FZ = -108.9613  
MX = 13205.23  
MY = 27606.09  
MZ = -0.6020248E+08

SUMMATION POINT= 0.0000 -48.000 51.000

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

528 NODES (OF 10212 DEFINED) SELECTED FROM  
360 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 306 Lines 6 to 7

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 306

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 306.10  
KABS= 0. TOLERANCE= 0.204200E-05

924 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

720 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
924 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000



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Appendix FPad-TH to Calculation PGE-009-CALC-006

KABS= 0. TOLERANCE= 0.200000E-08

84 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 204.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -4356669.  
FY = -10831.82  
FZ = -2534.224  
MX = 105772.7  
MY = 683842.3  
MZ = -0.1211255E+09

SUMMATION POINT= 0.0000 -48.000 204.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

924 NODES (OF 10212 DEFINED) SELECTED FROM  
720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 306 to 510 Lines 7 to 8

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 306 to 510

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 305.90 AND 510.10  
KABS= 0. TOLERANCE= 0.204200E-05

924 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

720 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
924 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

84 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.



Appendix FPad-TH to Calculation PGE-009-CALC-006

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 408.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*  
FX = -4319608.  
FY = -13319.43  
FZ = -11079.25  
MX = 93364.33  
MY = 791920.5  
MZ = -0.1225239E+09

SUMMATION POINT= 0.0000 -48.000 408.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

924 NODES (OF 10212 DEFINED) SELECTED FROM  
720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 510 to 630 Lines 8 to 10

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 510 to 630

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 509.90 AND 630.10  
KABS= 0. TOLERANCE= 0.120200E-05

396 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

240 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
396 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

36 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 570.000





Appendix FPad-TH to Calculation PGE-009-CALC-006

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*  
FX = -2460584.  
FY = -5682.452  
FZ = -7727.707  
MX = -512.6936  
MY = 3977731.  
MZ = -0.6968491E+08

SUMMATION POINT= 0.0000 -48.000 570.00

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

10212 NODES (OF 10212 DEFINED) SELECTED BY NALL COMMAND.

\*\*\*\*\*  
\*\*\*\*\* LOAD CASE 5 \*\*\*\*\*

LOAD CASE 5 IS LOAD STEP 5 SUBSTEP 1 COMPLEX= 0  
FILE= Pad-Th.105  
PAD RESPONSE AT END OF 1.625 DAYS

COPY LOAD CASE 5 FROM FILE TO DATABASE

SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = 0 to 204 Lines C to D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 204.10  
KABS= 0. TOLERANCE= 0.204200E-05

1296 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1020 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
1296 SELECTED NODES BY ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08



Appendix FPad-TH to Calculation PGE-009-CALC-006

72 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 102.000 -48.0000 0.00000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -524.9083  
FY = -19733.65  
FZ = -5390017.  
MX = 0.1507829E+09  
MY = -818964.5  
MZ = -64473.81

SUMMATION POINT= 102.00 -48.000 0.0000  
next strip x = 204 to 408 Lines D to E

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 203.90 AND 408.10  
KABS= 0. TOLERANCE= 0.204200E-05

1296 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1020 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
1296 SELECTED NODES BY ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

72 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 306.000 -48.0000 0.00000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -1179.093  
FY = -22181.06  
FZ = -5205515.



Appendix FPad-TH to Calculation PGE-009-CALC-006

MX = 0.1481727E+09
MY = -9671510.
MZ = -200714.6

SUMMATION POINT= 306.00 -48.000 0.0000
\*\*\*\*\*
\*\*\*\*\*

SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1
1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 102.10
KABS= 0. TOLERANCE= 0.102200E-05

528 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

360 ELEMENTS (OF 8812 DEFINED) SELECTED FROM
528 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000
KABS= 0. TOLERANCE= 0.200000E-08

48 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 51.0000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -2463210.
FY = -7702.383
FZ = -196.8429
MX = 14463.50
MY = 25297.45
MZ = -0.7428222E+08

SUMMATION POINT= 0.0000 -48.000 51.000

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.



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Appendix FPad-TH to Calculation PGE-009-CALC-006

528 NODES (OF 10212 DEFINED) SELECTED FROM  
360 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 306 Lines 6 to 7

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 306

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 306.10  
KABS= 0. TOLERANCE= 0.204200E-05

924 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

720 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
924 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

84 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 204.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -4907754.  
FY = -15931.57  
FZ = -3434.829  
MX = 47920.80  
MY = 594391.8  
MZ = -0.1491346E+09

SUMMATION POINT= 0.0000 -48.000 204.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

924 NODES (OF 10212 DEFINED) SELECTED FROM  
720 SELECTED ELEMENTS BY NELE COMMAND.



Appendix FPad-TH to Calculation PGE-009-CALC-006

next strip z = 306 to 510 Lines 7 to 8

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 306 to 510

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 305.90 AND 510.10  
KABS= 0. TOLERANCE= 0.204200E-05

924 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

720 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
924 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

84 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 408.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -4877105.  
FY = -14180.13  
FZ = -12505.96  
MX = 105434.2  
MY = 726579.0  
MZ = -0.1500323E+09

SUMMATION POINT= 0.0000 -48.000 408.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

924 NODES (OF 10212 DEFINED) SELECTED FROM  
720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 510 to 630 Lines 8 to 10



Appendix FPad-TH to Calculation PGE-009-CALC-006

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1
1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 510 to 630

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 509.90 AND 630.10
KABS= 0. TOLERANCE= 0.120200E-05

396 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

240 ELEMENTS (OF 8812 DEFINED) SELECTED FROM
396 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000
KABS= 0. TOLERANCE= 0.200000E-08

36 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 570.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -2777689.
FY = -5870.821
FZ = -8738.550
MX = 37730.17
MY = 4673086.
MZ = -0.8517045E+08

SUMMATION POINT= 0.0000 -48.000 570.00

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

10212 NODES (OF 10212 DEFINED) SELECTED BY NALL COMMAND.

\*\*\*\*\*
\*\*\*\*\* LOAD CASE 6 \*\*\*\*\*

LOAD CASE 6 IS LOAD STEP 6 SUBSTEP 1 COMPLEX= 0
FILE= Pad-Th.106
PAD RESPONSE AT END OF 2.125 DAYS



COPY LOAD CASE 6 FROM FILE TO DATABASE

SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = 0 to 204 Lines C to D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 204.10  
KABS= 0. TOLERANCE= 0.204200E-05

1296 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1020 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
1296 SELECTED NODES BY ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

72 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 102.000 -48.0000 0.00000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -1365.336  
FY = -24521.52  
FZ = -5574946.  
MX = 0.1629743E+09  
MY = -799342.7  
MZ = 186253.6

SUMMATION POINT= 102.00 -48.000 0.0000  
next strip x = 204 to 408 Lines D to E

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1



Appendix FPad-TH to Calculation PGE-009-CALC-006

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM 1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 203.90 AND 408.10 KABS= 0. TOLERANCE= 0.204200E-05

1296 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1020 ELEMENTS (OF 8812 DEFINED) SELECTED FROM 1296 SELECTED NODES BY ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 0.10000 KABS= 0. TOLERANCE= 0.200000E-08

72 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0 MOMENT SUMMATION LOCATION= 306.000 -48.0000 0.00000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -1715.559
FY = -22923.92
FZ = -5388926.
MX = 0.1591296E+09
MY = -0.1008126E+08
MZ = -179334.2

SUMMATION POINT= 306.00 -48.000 0.0000
\*\*\*\*\*
\*\*\*\*\*

SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM 1870 SELECTED ELEMENTS BY NELE COMMAND.





Appendix FPad-TH to Calculation PGE-009-CALC-006

select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 102.10  
KABS= 0. TOLERANCE= 0.102200E-05

528 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

360 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
528 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

48 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 51.0000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -2552628.  
FY = -13914.58  
FZ = -742.3441  
MX = -72632.22  
MY = 52230.06  
MZ = -0.7997465E+08

SUMMATION POINT= 0.0000 -48.000 51.000

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

528 NODES (OF 10212 DEFINED) SELECTED FROM  
360 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 306 Lines 6 to 7

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 306



Appendix FPad-TH to Calculation PGE-009-CALC-006

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 306.10  
KABS= 0. TOLERANCE= 0.204200E-05

924 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

720 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
924 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

84 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 204.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -5092094.  
FY = -17642.57  
FZ = -4456.925  
MX = -54690.57  
MY = 402356.4  
MZ = -0.1593288E+09

SUMMATION POINT= 0.0000 -48.000 204.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

924 NODES (OF 10212 DEFINED) SELECTED FROM  
720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 306 to 510 Lines 7 to 8

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 306 to 510

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 305.90 AND 510.10  
KABS= 0. TOLERANCE= 0.204200E-05



Appendix FPad-TH to Calculation PGE-009-CALC-006

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924 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

720 ELEMENTS (OF 8812 DEFINED) SELECTED FROM
924 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000
KABS= 0. TOLERANCE= 0.200000E-08

84 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 408.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = -5070757.
FY = -14698.57
FZ = -13491.10
MX = 122043.3
MY = 631561.0
MZ = -0.1598777E+09

SUMMATION POINT= 0.0000 -48.000 408.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

924 NODES (OF 10212 DEFINED) SELECTED FROM
720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 510 to 630 Lines 8 to 10

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 510 to 630

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 509.90 AND 630.10
KABS= 0. TOLERANCE= 0.120200E-05

396 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.
```



Appendix FPad-TH to Calculation PGE-009-CALC-006

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

240 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
396 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

36 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 570.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*  
FX = -2889199.  
FY = -6067.974  
FZ = -9364.608  
MX = 61775.19  
MY = 4832610.  
MZ = -0.9073219E+08

SUMMATION POINT= 0.0000 -48.000 570.00

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

10212 NODES (OF 10212 DEFINED) SELECTED BY NALL COMMAND.

\*\*\*\*\*  
\*\*\*\*\* LOAD CASE 7 \*\*\*\*\*

LOAD CASE 7 IS LOAD STEP 7 SUBSTEP 1 COMPLEX= 0  
FILE= Pad-Th.107  
PAD RESPONSE AT END OF 2.375 DAYS

COPY LOAD CASE 7 FROM FILE TO DATABASE

SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = 0 to 204 Lines C to D



Appendix FPad-TH to Calculation PGE-009-CALC-006

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 204.10  
KABS= 0. TOLERANCE= 0.204200E-05

1296 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1020 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
1296 SELECTED NODES BY ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

72 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= . 0  
MOMENT SUMMATION LOCATION= 102.000 -48.0000 0.00000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -1922.139  
FY = -28239.31  
FZ = -5581821.  
MX = 0.1664374E+09  
MY = -768166.7  
MZ = 336533.5

SUMMATION POINT= 102.00 -48.000 0.0000  
next strip x = 204 to 408 Lines D to E

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 203.90 AND 408.10  
KABS= 0. TOLERANCE= 0.204200E-05

1296 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1020 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
1296 SELECTED NODES BY ENOD COMMAND.



Appendix FPad-TH to Calculation PGE-009-CALC-006

internal forces at Z = 0.0 LINE 5 1/2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 0.10000
KABS= 0. TOLERANCE= 0.200000E-08

72 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 306.000 -48.0000 0.00000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -2061.708
FY = -23676.65
FZ = -5399212.
MX = 0.1617746E+09
MY = -0.1010200E+08
MZ = -151830.3

SUMMATION POINT= 306.00 -48.000 0.0000
\*\*\*\*\*
\*\*\*\*\*

SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 102.10
KABS= 0. TOLERANCE= 0.102200E-05

528 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

360 ELEMENTS (OF 8812 DEFINED) SELECTED FROM
528 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000
KABS= 0. TOLERANCE= 0.200000E-08

48 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.



Appendix FPad-TH to Calculation PGE-009-CALC-006

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 51.0000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -2559557.  
FY = -17981.62  
FZ = -1014.844  
MX = -109311.3  
MY = 58254.54  
MZ = -0.8157406E+08

SUMMATION POINT= 0.0000 -48.000 51.000

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

528 NODES (OF 10212 DEFINED) SELECTED FROM  
360 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 306 Lines 6 to 7

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 306

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 306.10  
KABS= 0. TOLERANCE= 0.204200E-05

924 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

720 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
924 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

84 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 204.000



Appendix FPad-TH to Calculation PGE-009-CALC-006

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -5110869.  
FY = -19556.80  
FZ = -5262.470  
MX = -177958.0  
MY = 229042.4  
MZ = -0.1615784E+09

SUMMATION POINT= 0.0000 -48.000 204.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

924 NODES (OF 10212 DEFINED) SELECTED FROM  
720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 306 to 510 Lines 7 to 8

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 306 to 510

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 305.90 AND 510.10  
KABS= 0. TOLERANCE= 0.204200E-05

924 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

720 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
924 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

84 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 408.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -5098245.





FY = -15195.62
FZ = -14026.35
MX = 115491.5
MY = 534784.8
MZ = -0.1617183E+09

SUMMATION POINT= 0.0000 -48.000 408.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

924 NODES (OF 10212 DEFINED) SELECTED FROM
720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 510 to 630 Lines 8 to 10

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 510 to 630

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 509.90 AND 630.10
KABS= 0. TOLERANCE= 0.120200E-05

396 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

240 ELEMENTS (OF 8812 DEFINED) SELECTED FROM
396 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000
KABS= 0. TOLERANCE= 0.200000E-08

36 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 570.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -2906518.
FY = -6279.599
FZ = -9607.234
MX = 68252.63



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Appendix FPad-TH to Calculation PGE-009-CALC-006

MY = 4813275.  
MZ = -0.9175070E+08

SUMMATION POINT= 0.0000 -48.000 570.00

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

10212 NODES (OF 10212 DEFINED) SELECTED BY NALL COMMAND.

\*\*\*\*\*  
\*\*\*\*\* LOAD CASE 8 \*\*\*\*\*

LOAD CASE 8 IS LOAD STEP 8 SUBSTEP 1 COMPLEX= 0  
FILE= Pad-Th.108  
PAD RESPONSE AT END OF 3.125 DAYS

COPY LOAD CASE 8 FROM FILE TO DATABASE

SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = 0 to 204 Lines C to D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 204.10  
KABS= 0. TOLERANCE= 0.204200E-05

1296 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1020 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
1296 SELECTED NODES BY ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

72 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 102.000 -48.0000 0.00000



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**Appendix FPad-TH to Calculation PGE-009-CALC-006**

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -2910.421  
 FY = -35574.50  
 FZ = -5456216.  
 MX = 0.1638880E+09  
 MY = -781232.9  
 MZ = 771666.5

SUMMATION POINT= 102.00 -48.000 0.0000  
 next strip x = 204 to 408 Lines D to E

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
 1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 203.90 AND 408.10  
 KABS= 0. TOLERANCE= 0.204200E-05

1296 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1020 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
 1296 SELECTED NODES BY ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 0.10000  
 KABS= 0. TOLERANCE= 0.200000E-08

72 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
 MOMENT SUMMATION LOCATION= 306.000 -48.0000 0.00000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -2470.590  
 FY = -24446.26  
 FZ = -5281066.  
 MX = 0.1583079E+09  
 MY = -9688629.  
 MZ = -124623.9

SUMMATION POINT= 306.00 -48.000 0.0000

\*\*\*\*\*



\*\*\*\*\*

SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM 1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 102.10 KABS= 0. TOLERANCE= 0.102200E-05

528 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

360 ELEMENTS (OF 8812 DEFINED) SELECTED FROM 528 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000 KABS= 0. TOLERANCE= 0.200000E-08

48 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0 MOMENT SUMMATION LOCATION= 0.00000 -48.0000 51.0000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -2498078.
FY = -24933.85
FZ = -1684.471
MX = -258755.0
MY = 113263.9
MZ = -0.8009187E+08

SUMMATION POINT= 0.0000 -48.000 51.000

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

528 NODES (OF 10212 DEFINED) SELECTED FROM 360 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 306 Lines 6 to 7



Appendix FPad-TH to Calculation PGE-009-CALC-006

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1  
1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 306

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 306.10  
KABS= 0. TOLERANCE= 0.204200E-05

924 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

720 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
924 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

84 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 204.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -4993234.  
FY = -21117.69  
FZ = -6137.529  
MX = -278572.7  
MY = 34683.97  
MZ = -0.1572836E+09

SUMMATION POINT= 0.0000 -48.000 204.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

924 NODES (OF 10212 DEFINED) SELECTED FROM  
720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 306 to 510 Lines 7 to 8

Select all nodes in pad only



Appendix FPad-TH to Calculation PGE-009-CALC-006

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1  
1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 306 to 510

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 305.90 AND 510.10  
KABS= 0. TOLERANCE= 0.204200E-05

924 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

720 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
924 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

84 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 408.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -4990939.  
FY = -15671.72  
FZ = -14777.20  
MX = 116584.3  
MY = 389433.9  
MZ = -0.1570558E+09

SUMMATION POINT= 0.0000 -48.000 408.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

924 NODES (OF 10212 DEFINED) SELECTED FROM  
720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 510 to 630 Lines 8 to 10

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1



Appendix FPad-TH to Calculation PGE-009-CALC-006

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM 1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 510 to 630

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 509.90 AND 630.10 KABS= 0. TOLERANCE= 0.120200E-05

396 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

240 ELEMENTS (OF 8812 DEFINED) SELECTED FROM 396 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000 KABS= 0. TOLERANCE= 0.200000E-08

36 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0 MOMENT SUMMATION LOCATION= 0.00000 -48.0000 570.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -2847986.
FY = -6503.806
FZ = -9959.531
MX = 82030.65
MY = 4494464.
MZ = -0.8915363E+08

SUMMATION POINT= 0.0000 -48.000 570.00

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

10212 NODES (OF 10212 DEFINED) SELECTED BY NALL COMMAND.

\*\*\*\*\* LOAD CASE 9 \*\*\*\*\*

LOAD CASE 9 IS LOAD STEP 9 SUBSTEP 1 COMPLEX= 0
FILE= Pad-Th.109
PAD RESPONSE AT END OF 4.125 DAYS

COPY LOAD CASE 9 FROM FILE TO DATABASE

SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS



Appendix FPad-TH to Calculation PGE-009-CALC-006

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1  
1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = 0 to 204 Lines C to D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 204.10  
KABS= 0. TOLERANCE= 0.204200E-05

1296 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1020 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
1296 SELECTED NODES BY ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

72 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 102.000 -48.0000 0.00000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -3883.385  
FY = -44127.84  
FZ = -4973948.  
MX = 0.1442318E+09  
MY = -806688.9  
MZ = 1309411.

SUMMATION POINT= 102.00 -48.000 0.0000

next strip x = 204 to 408 Lines D to E

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1  
1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM





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**Appendix FPad-TH to Calculation PGE-009-CALC-006**

1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 203.90 AND 408.10  
KABS= 0. TOLERANCE= 0.204200E-05

1296 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1020 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
1296 SELECTED NODES BY ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

72 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 306.000 -48.0000 0.00000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -2649.543  
FY = -25231.33  
FZ = -4816150.  
MX = 0.1382323E+09  
MY = -8451668.  
MZ = -89345.15

SUMMATION POINT= 306.00 -48.000 0.0000  
\*\*\*\*\*  
\*\*\*\*\*

SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 102.10  
KABS= 0. TOLERANCE= 0.102200E-05



Appendix FPad-TH to Calculation PGE-009-CALC-006

528 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

360 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
528 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

48 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 51.0000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -2266808.  
FY = -32974.67  
FZ = -2406.895  
MX = -446786.2  
MY = 176996.0  
MZ = -0.7053661E+08

SUMMATION POINT= 0.0000 -48.000 51.000

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

528 NODES (OF 10212 DEFINED) SELECTED FROM  
360 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 306 Lines 6 to 7

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 306

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 306.10  
KABS= 0. TOLERANCE= 0.204200E-05

924 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.



Appendix FPad-TH to Calculation PGE-009-CALC-006

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

720 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
924 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

84 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 204.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -4535864.  
FY = -22679.11  
FZ = -6806.786  
MX = -392393.5  
MY = -166999.8  
MZ = -0.1367201E+09

SUMMATION POINT= 0.0000 -48.000 204.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

924 NODES (OF 10212 DEFINED) SELECTED FROM  
720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 306 to 510 Lines 7 to 8

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 306 to 510

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 305.90 AND 510.10  
KABS= 0. TOLERANCE= 0.204200E-05

924 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

720 ELEMENTS (OF 8812 DEFINED) SELECTED FROM



Appendix FPad-TH to Calculation PGE-009-CALC-006

924 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

84 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 408.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*  
FX = -4544699.  
FY = -16102.96  
FZ = -15017.28  
MX = 88315.20  
MY = 198057.0  
MZ = -0.1360651E+09

SUMMATION POINT= 0.0000 -48.000 408.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

924 NODES (OF 10212 DEFINED) SELECTED FROM  
720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 510 to 630 Lines 8 to 10

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 510 to 630

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 509.90 AND 630.10  
KABS= 0. TOLERANCE= 0.120200E-05

396 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

240 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
396 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C



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**Appendix FPad-TH to Calculation PGE-009-CALC-006**

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN=0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

36 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 570.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*  
FX = -2597018.  
FY = -6758.765  
FZ = -9819.837  
MX = 74690.82  
MY = 3723393.  
MZ = -0.7730728E+08

SUMMATION POINT= 0.0000 -48.000 570.00

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

10212 NODES (OF 10212 DEFINED) SELECTED BY NALL COMMAND.

\*\*\*\*\*  
\*\*\*\*\* LOAD CASE 10 \*\*\*\*\*

LOAD CASE 10 IS LOAD STEP 10 SUBSTEP 1 COMPLEX= 0  
FILE= Pad-Th.110  
PAD RESPONSE AT END OF 6.125 DAYS

COPY LOAD CASE 10 FROM FILE TO DATABASE

SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = 0 to 204 Lines C to D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN=0.10000 AND 204.10  
KABS= 0. TOLERANCE= 0.204200E-05

1296 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.



Appendix FPad-TH to Calculation PGE-009-CALC-006

1020 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
1296 SELECTED NODES BY ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

72 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 102.000 -48.0000 0.00000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -4773.761  
FY = -54024.83  
FZ = -3967223.  
MX = 0.9939197E+08  
MY = -847573.6  
MZ = 1963902.

SUMMATION POINT= 102.00 -48.000 0.0000  
next strip x = 204 to 408 Lines D to E

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 203.90 AND 408.10  
KABS= 0. TOLERANCE= 0.204200E-05

1296 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1020 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
1296 SELECTED NODES BY ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08



**Appendix FPad-TH to Calculation PGE-009-CALC-006**

72 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 306.000 -48.0000 0.00000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -2455.726  
FY = -26040.45  
FZ = -3841025.  
MX = 0.9372266E+08  
MY = -6018547.  
MZ = -41127.02

SUMMATION POINT= 306.00 -48.000 0.0000  
\*\*\*\*\*  
\*\*\*\*\*

SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 102.10  
KABS= 0. TOLERANCE= 0.102200E-05

528 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

360 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
528 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

48 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 51.0000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*  
FX = -1787383.



Appendix FPad-TH to Calculation PGE-009-CALC-006

FY = -42356.65  
FZ = -3157.765  
MX = -677514.8  
MY = 249736.0  
MZ = -0.4917731E+08

SUMMATION POINT= 0.0000 -48.000 51.000

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

528 NODES (OF 10212 DEFINED) SELECTED FROM  
360 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 306 Lines 6 to 7

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 306

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 306.10  
KABS= 0. TOLERANCE= 0.204200E-05

924 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

720 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
924 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

84 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 204.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -3581968.  
FY = -24255.02  
FZ = -7144.025  
MX = -528132.8





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**Appendix FPad-TH to Calculation PGE-009-CALC-006**

MY = -381041.7  
MZ = -0.9238722E+08

SUMMATION POINT= 0.0000 -48.000 204.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

924 NODES (OF 10212 DEFINED) SELECTED FROM  
720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 306 to 510 Lines 7 to 8

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 306 to 510

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 305.90 AND 510.10  
KABS= 0. TOLERANCE= 0.204200E-05

924 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

720 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
924 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

84 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 408.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -3603165.  
FY = -16464.57  
FZ = -14426.09  
MX = 12851.45  
MY = -64807.76  
MZ = -0.9120650E+08



Appendix FPad-TH to Calculation PGE-009-CALC-006

SUMMATION POINT= 0.0000 -48.000 408.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

924 NODES (OF 10212 DEFINED) SELECTED FROM  
720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 510 to 630 Lines 8 to 10

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 510 to 630

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 509.90 AND 630.10  
KABS= 0. TOLERANCE= 0.120200E-05

396 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

240 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
396 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

36 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 570.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -2064483.  
FY = -7060.544  
FZ = -8893.246  
MX = 33287.90  
MY = 2285622.  
MZ = -0.5192266E+08

SUMMATION POINT= 0.0000 -48.000 570.00

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.



Appendix FPad-TH to Calculation PGE-009-CALC-006

10212 NODES (OF 10212 DEFINED) SELECTED BY NALL COMMAND.

\*\*\*\*\*
\*\*\*\*\* LOAD CASE 11 \*\*\*\*\*

LOAD CASE 11 IS LOAD STEP 11 SUBSTEP 1 COMPLEX= 0
FILE= Pad-Th.111
PAD RESPONSE AT END OF 7.875 DAYS

COPY LOAD CASE 11 FROM FILE TO DATABASE

SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = 0 to 204 Lines C to D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 204.10
KABS= 0. TOLERANCE= 0.204200E-05

1296 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1020 ELEMENTS (OF 8812 DEFINED) SELECTED FROM
1296 SELECTED NODES BY ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 0.10000
KABS= 0. TOLERANCE= 0.200000E-08

72 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 102.000 -48.0000 0.00000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*
FX = -5463.597
FY = -61916.31
FZ = -3212272.
MX = 0.6658143E+08
MY = -885503.0



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**Appendix FPad-TH to Calculation PGE-009-CALC-006**

MZ = 2458799.

SUMMATION POINT= 102.00 -48.000 0.0000  
next strip x = 204 to 408 Lines D to E

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 203.90 AND 408.10  
KABS= 0. TOLERANCE= 0.204200E-05

1296 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1020 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
1296 SELECTED NODES BY ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

72 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 306.000 -48.0000 0.00000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -2234.550  
FY = -26846.54  
FZ = -3109565.  
MX = 0.6089658E+08  
MY = -4370990.  
MZ = 9969.583

SUMMATION POINT= 306.00 -48.000 0.0000  
\*\*\*\*\*  
\*\*\*\*\*

SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only



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Appendix FPad-TH to Calculation PGE-009-CALC-006

```

ESEL FOR LABEL= TYPE FROM      2 TO      2 BY      1

      1870 ELEMENTS (OF      8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

      2376 NODES (OF      10212 DEFINED) SELECTED FROM
      1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6

RESELECT      FOR ITEM=LOC COMPONENT=Z      BETWEEN-0.10000      AND      102.10
      KABS= 0. TOLERANCE= 0.102200E-05

      528 NODES (OF      10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

      360 ELEMENTS (OF      8812 DEFINED) SELECTED FROM
      528 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT      FOR ITEM=LOC COMPONENT=X      BETWEEN-0.10000      AND      0.10000
      KABS= 0. TOLERANCE= 0.200000E-08

      48 NODES (OF      10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION=      0
MOMENT SUMMATION LOCATION=      0.00000      -48.0000      51.0000

***** SUMMATION OF TOTAL      FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = -1434887.
FY = -49192.79
FZ = -3695.422
MX = -836373.7
MY = 310833.8
MZ = -0.3380566E+08

SUMMATION POINT=      0.0000      -48.000      51.000

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

      528 NODES (OF      10212 DEFINED) SELECTED FROM
      360 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 306 Lines 6 to 7

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM      2 TO      2 BY      1

```



Appendix FPad-TH to Calculation PGE-009-CALC-006

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 306

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 306.10  
KABS= 0. TOLERANCE= 0.204200E-05

924 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

720 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
924 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

84 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 204.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -2881157.  
FY = -25813.93  
FZ = -7364.413  
MX = -663372.1  
MY = -571238.5  
MZ = -0.6018287E+08

SUMMATION POINT= 0.0000 -48.000 204.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

924 NODES (OF 10212 DEFINED) SELECTED FROM  
720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 306 to 510 Lines 7 to 8

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.



Appendix FPad-TH to Calculation PGE-009-CALC-006

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 306 to 510

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 305.90 AND 510.10  
KABS= 0. TOLERANCE= 0.204200E-05

924 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

720 ELEMENTS (OF 8812 DEFINED) SELECTED FROM  
924 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000  
KABS= 0. TOLERANCE= 0.200000E-08

84 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0  
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 408.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -2912161.  
FY = -16855.38  
FZ = -13648.61  
MX = -66062.55  
MY = -249754.7  
MZ = -0.5843041E+08

SUMMATION POINT= 0.0000 -48.000 408.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

924 NODES (OF 10212 DEFINED) SELECTED FROM  
720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 510 to 630 Lines 8 to 10

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM  
1870 SELECTED ELEMENTS BY NELE COMMAND.



select strip x direction z = 510 to 630

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 509.90 AND 630.10
KABS= 0. TOLERANCE= 0.120200E-05

396 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

240 ELEMENTS (OF 8812 DEFINED) SELECTED FROM
396 SELECTED NODES BY ENOD COMMAND.

internal forces at x = 0.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN-0.10000 AND 0.10000
KABS= 0. TOLERANCE= 0.200000E-08

36 NODES (OF 10212 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -48.0000 570.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

FX = -1673170.
FY = -7335.125
FZ = -7938.123
MX = -12937.58
MY = 1361591.
MZ = -0.3327965E+08

SUMMATION POINT= 0.0000 -48.000 570.00

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

10212 NODES (OF 10212 DEFINED) SELECTED BY NALL COMMAND.

\*\*\*\*\*
\*\*\*\*\*

EXIT THE ANSYS POST1 DATABASE PROCESSOR

\*\*\*\*\* ROUTINE COMPLETED \*\*\*\*\* CP = 7.801

EXIT ANSYS WITHOUT SAVING DATABASE

NUMBER OF WARNING MESSAGES ENCOUNTERED= 2
NUMBER OF ERROR MESSAGES ENCOUNTERED= 0

\*-----\*





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Appendix FPad-TH to Calculation PGE-009-CALC-006

ANSYS RUN COMPLETED			
Release 6.1	UP20020321	INTEL NT	
Maximum Scratch Memory Used	=	1025420 Words	3.912 MB
CP Time (sec) =	7.801	Time =	17:41:38
Elapsed Time (sec) =	10.000	Date =	06/10/2002