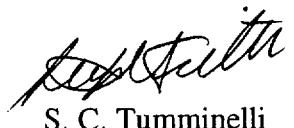


NON-PROPRIETARY CALCULATIONS

Book 3 of 8

**Attachments to PG&E Letter DIL-01-004
Dated December 21, 2001**

**ENERCON
SERVICES, INC.****Appendix FC-2 to Calculation PGE-009-CALC-003**

Originator:  S. C. Tumminelli
Date: November 30, 2001

Appendix FC-2**Pad Internal Forces – Soft Rock with $Nu = 0.23$**

This Appendix presents internal force data for the pad for load cases 1 through 3 for the soft rock model with $Nu = 0.23$. These are HE(1) N, N45W and W. The input file is provided followed by the output file.

Appendix Contents

ANSYS input file for pad internal forces	sheet 2
ANSYS output file for pad internal forces:	sheet 47
Load Case 1 HE(1) N	sheet 48
Load Case 2 HE(1) N 45 W	sheet 100
Load Case 3 HE(1) W	sheet 152



Below is the ANSYS input file that scans the database and provides pad internal forces for the soft rock model with $Nu = 0.23$.

```
/com,
/com, This routine processes load results data for the
/com,   evaluation of pad internal forces and moments
/com
/com,   Soft Rock Load Step Results
/com
/output,padintforc9,out
/com
/com *****
/com *****
/com *****
/com *****
/com *****
/com *****
/com *****
/com ***** Soft Rock Results *****
/com
/file,dcslabs9
resume
/HEADER,ON,OFF,OFF,OFF,ON,OFF
/post1
eall
nall
/com
/com *****
/com *****
/com ***** LOAD CASE 1 *****
set,1
/COM
/COM SECTION THE PAD IN TO 4 NORTH-SOUTH Z-DIRECTION STRIPS
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip Z direction x = -102 to 102 Lines A to B
/com
nsel,r,loc,x,-102.1,102.1
enode,1
/com
/com Internal forces at Z = 222.0 LINE 10
/com
nsel,r,loc,z,221.9,222.1
spoint,,0,-45.0,222.0
fsum
nelem
/com
/com Internal forces at Z = 162.0 LINE 9
/com
```

**ENERCON
SERVICES, INC.****Appendix FC-2 to Calculation PGE-009-CALC-003**

```
nsel,r,loc,z,-1038.1,162.1
enode,1
nsel,r,loc,z,161.9,162.1
spoint,,0,-45.0,162.0
fsum
nelem
/com
/com Internal forces at Z = 102.0 LINE 8
/com
nsel,r,loc,z,-1038.1,102.1
enode,1
nsel,r,loc,z,101.9,102.1
spoint,,0,-45.0,102.0
fsum
nelem
/com
/com Internal forces at Z = -102.0 LINE 7
/com
nsel,r,loc,z,-1038.1,-101.9
enode,1
nsel,r,loc,z,-101.9,-102.1
spoint,,0,-45.0,-102.0
fsum
nelem
/com
/com Internal forces at Z = -306.0 LINE 6
/com
nsel,r,loc,z,-1038.1,-305.9
enode,1
nsel,r,loc,z,-305.9,-306.1
spoint,,0,-45.0,-306.0
fsum
nelem
/com
/com Internal forces at Z = -510.0 LINE 5
/com
nsel,r,loc,z,-1038.1,-509.9
enode,1
nsel,r,loc,z,-509.9,-510.1
spoint,,0,-45.0,-510.0
fsum
nelem
/com
/com Internal forces at Z = -714.0 LINE 4
/com
nsel,r,loc,z,-1038.1,-713.9
enode,1
nsel,r,loc,z,-713.9,-714.1
spoint,,0,-45.0,-714.0
fsum
nelem
/com
/com Internal forces at Z = -918.0 LINE 3
```



```
/com
nsel,r,loc,z,-1038.1,-917.9
enode,1
nsel,r,loc,z,-917.9,-918.1
spoint,,0,-45.0,-918.0
fsum
nelem
/com
/com Internal forces at Z = -978.0 LINE 2
/com
nsel,r,loc,z,-1038.1,-977.9
enode,1
nsel,r,loc,z,-977.9,-978.1
spoint,,0,-45.0,-978.0
fsum
nelem
/com
/com Internal forces at Z = -1038.0 LINE 1
/com
nsel,r,loc,z,-1037.9,-1038.1
spoint,,0,-45.0,-1038.0
fsum
/com next strip x = 102 to 306 Lines B to C
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip Z direction
/com
nsel,r,loc,x,101.9,306.1
enode,1
/com
/com Internal forces at Z = 222.0 LINE 10
/com
nsel,r,loc,z,221.9,222.1
spoint,,204.0,-45.0,222.0
fsum
nelem
/com
/com Internal forces at Z = 162.0 LINE 9
/com
nsel,r,loc,z,-1038.1,162.1
enode,1
nsel,r,loc,z,161.9,162.1
spoint,,204.0,-45.0,162.0
fsum
nelem
/com
/com Internal forces at Z = 102.0 LINE 8
/com
nsel,r,loc,z,-1038.1,102.1
```

**ENERCON
SERVICES, INC.****Appendix FC-2 to Calculation PGE-009-CALC-003**

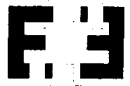
```
enode,1
nsel,r,loc,z,101.9,102.1
spoint,,204.0,-45.0,102.0
fsum
nelem
/com
/com Internal forces at Z = -102.0 LINE 7
/com
nsel,r,loc,z,-1038.1,-101.9
enode,1
nsel,r,loc,z,-101.9,-102.1
spoint,,204.0,-45.0,-102.0
fsum
nelem
/com
/com Internal forces at Z = -306.0 LINE 6
/com
nsel,r,loc,z,-1038.1,-305.9
enode,1
nsel,r,loc,z,-305.9,-306.1
spoint,,204.0,-45.0,-306.0
fsum
nelem
/com
/com Internal forces at Z = -510.0 LINE 5
/com
nsel,r,loc,z,-1038.1,-509.9
enode,1
nsel,r,loc,z,-509.9,-510.1
spoint,,204.0,-45.0,-510.0
fsum
nelem
/com
/com Internal forces at Z = -714.0 LINE 4
/com
nsel,r,loc,z,-1038.1,-713.9
enode,1
nsel,r,loc,z,-713.9,-714.1
spoint,,204.0,-45.0,-714.0
fsum
nelem
/com
/com Internal forces at Z = -918.0 LINE 3
/com
nsel,r,loc,z,-1038.1,-917.9
enode,1
nsel,r,loc,z,-917.9,-918.1
spoint,,204.0,-45.0,-918.0
fsum
nelem
/com
/com Internal forces at Z = -978.0 LINE 2
/com
```



```
nsel,r,loc,z,-1038.1,-977.9
enode,1
nsel,r,loc,z,-977.9,-978.1
spoint,,204.0,-45.0,-978.0
fsum
nelem
/com
/com Internal forces at Z = -1038.0      LINE 1
/com
nsel,r,loc,z,-1037.9,-1038.1
spoint,,204.0,-45.0,-1038.0
fsum
/com next strip x = 306 to 510 Lines C to D
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip Z direction
/com
nsel,r,loc,x,305.9,510.1
enode,1
/com
/com Internal forces at Z = 222.0 LINE 10
/com
nsel,r,loc,z,221.9,222.1
spoint,,408.0,-45.0,222.0
fsum
nelem
/com
/com Internal forces at Z = 162.0 LINE 9
/com
nsel,r,loc,z,-1038.1,162.1
enode,1
nsel,r,loc,z,161.9,162.1
spoint,,408.0,-45.0,162.0
fsum
nelem
/com
/com Internal forces at Z = 102.0 LINE 8
/com
nsel,r,loc,z,-1038.1,102.1
enode,1
nsel,r,loc,z,101.9,102.1
spoint,,408.0,-45.0,102.0
fsum
nelem
/com
/com Internal forces at Z = -102.0 LINE 7
/com
nsel,r,loc,z,-1038.1,-101.9
enode,1
```



```
nsel,r,loc,z,-101.9,-102.1
spoint,,408.0,-45.0,-102.0
fsum
nelem
/com
/com Internal forces at Z = -306.0 LINE 6
/com
nsel,r,loc,z,-1038.1,-305.9
enode,1
nsel,r,loc,z,-305.9,-306.1
spoint,,408.0,-45.0,-306.0
fsum
nelem
/com
/com Internal forces at Z = -510.0 LINE 5
/com
nsel,r,loc,z,-1038.1,-509.9
enode,1
nsel,r,loc,z,-509.9,-510.1
spoint,,408.0,-45.0,-510.0
fsum
nelem
/com
/com Internal forces at Z = -714.0 LINE 4
/com
nsel,r,loc,z,-1038.1,-713.9
enode,1
nsel,r,loc,z,-713.9,-714.1
spoint,,408.0,-45.0,-714.0
fsum
nelem
/com
/com Internal forces at Z = -918.0 LINE 3
/com
nsel,r,loc,z,-1038.1,-917.9
enode,1
nsel,r,loc,z,-917.9,-918.1
spoint,,408.0,-45.0,-918.0
fsum
nelem
/com
/com Internal forces at Z = -978.0 LINE 2
/com
nsel,r,loc,z,-1038.1,-977.9
enode,1
nsel,r,loc,z,-977.9,-978.1
spoint,,408.0,-45.0,-978.0
fsum
nelem
/com
/com Internal forces at Z = -1038.0 LINE 1
/com
nsel,r,loc,z,-1037.9,-1038.1
```

```
spoint,,408.0,-45.0,-1038.0
fsum
/com next strip x = 510 to 714 Lines D to E
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip Z direction
/com
nsel,r,loc,x,509.9,714.1
enode,1
/com
/com Internal forces at Z = 222.0 LINE 10
/com
nsel,r,loc,z,221.9,222.1
spoint,,612.0,-45.0,222.0
fsum
nelem
/com
/com Internal forces at Z = 162.0 LINE 9
/com
nsel,r,loc,z,-1038.1,162.1
enode,1
nsel,r,loc,z,161.9,162.1
spoint,,612.0,-45.0,162.0
fsum
nelem
/com
/com Internal forces at Z = 102.0 LINE 8
/com
nsel,r,loc,z,-1038.1,102.1
enode,1
nsel,r,loc,z,101.9,102.1
spoint,,612.0,-45.0,102.0
fsum
nelem
/com
/com Internal forces at Z = -102.0 LINE 7
/com
nsel,r,loc,z,-1038.1,-101.9
enode,1
nsel,r,loc,z,-101.9,-102.1
spoint,,612.0,-45.0,-102.0
fsum
nelem
/com
/com Internal forces at Z = -306.0 LINE 6
/com
nsel,r,loc,z,-1038.1,-305.9
enode,1
nsel,r,loc,z,-305.9,-306.1
```



**ENERCON
SERVICES, INC.**

Appendix FC-2 to Calculation PGE-009-CALC-003

```

spoint,,612.0,-45.0,-306.0
fsum
nelem
/com
/com Internal forces at Z = -510.0 LINE 5
/com
nsel,r,loc,z,-1038.1,-509.9
enode,1
nsel,r,loc,z,-509.9,-510.1
spoint,,612.0,-45.0,-510.0
fsum
nelem
/com
/com Internal forces at Z = -714.0 LINE 4
/com
nsel,r,loc,z,-1038.1,-713.9
enode,1
nsel,r,loc,z,-713.9,-714.1
spoint,,612.0,-45.0,-714.0
fsum
nelem
/com
/com Internal forces at Z = -918.0 LINE 3
/com
nsel,r,loc,z,-1038.1,-917.9
enode,1
nsel,r,loc,z,-917.9,-918.1
spoint,,612.0,-45.0,-918.0
fsum
nelem
/com
/com Internal forces at Z = -978.0 LINE 2
/com
nsel,r,loc,z,-1038.1,-977.9
enode,1
nsel,r,loc,z,-977.9,-978.1
spoint,,612.0,-45.0,-978.0
fsum
nelem
/com
/com Internal forces at Z = -1038.0      LINE 1
/com
nsel,r,loc,z,-1037.9,-1038.1
spoint,,612.0,-45.0,-1038.0
fsum
/com *****
/com *****
/com
/COM SECTION THE PAD IN TO 7 EAST-WEST X-DIRECTION STRIPS
/COM
/com Select all nodes in pad only
/com
esel,type,1

```



Appendix FC-2 to Calculation PGE-009-CALC-003

```
nelem
/com
/com select strip x direction z = -1038 to -918 Lines 1 to 3
/com
nsel,r,loc,z,-1038.1,-917.9
enode,1
/com
/com Internal forces at x = 714.0 LINE E
/com
nsel,r,loc,x,713.9,714.1
spoint,,714.0,-45.0,-978.0
fsum
nelem
/com
/com Internal forces at x = 510.0 LINE D
/com
nsel,r,loc,x,-102.1,510.1
enode,1
nsel,r,loc,x,509.9,510.1
spoint,,510.0,-45.0,-978.0
fsum
nelem
/com
/com Internal forces at x = 306.0 LINE C
/com
nsel,r,loc,x,-102.1,306.1
enode,1
nsel,r,loc,x,305.9,306.1
spoint,,306.0,-45.0,-978.0
fsum
nelem
/com
/com Internal forces at x = 102.0 LINE B
/com
nsel,r,loc,x,-102.1,102.1
enode,1
nsel,r,loc,x,101.9,102.1
spoint,,102.0,-45.0,-978.0
fsum
nelem
/com
/com Internal forces at x = -102.0 LINE A
/com
nsel,r,loc,x,-102.1,-101.9
spoint,, -102.0,-45.0,-978.0
fsum
nelem
/com
/com next strip z = -918 to -714 Lines 3 to 4
/com
/com
/com Select all nodes in pad only
/com
```



```
esel,type,1
nelem
/com
/com select strip x direction z = -918 to -714
/com
nsel,r,loc,z,-918.1,-713.9
enode,1
/com
/com Internal forces at x = 714.0 LINE E
/com
nsel,r,loc,x,713.9,714.1
spoint,,714.0,-45.0,-816.0
fsum
nelem
/com
/com Internal forces at x = 510.0 LINE D
/com
nsel,r,loc,x,-102.1,510.1
enode,1
nsel,r,loc,x,509.9,510.1
spoint,,510.0,-45.0,-816.0
fsum
nelem
/com
/com Internal forces at x = 306.0 LINE C
/com
nsel,r,loc,x,-102.1,306.1
enode,1
nsel,r,loc,x,305.9,306.1
spoint,,306.0,-45.0,-816.0
fsum
nelem
/com
/com Internal forces at x = 102.0 LINE B
/com
nsel,r,loc,x,-102.1,102.1
enode,1
nsel,r,loc,x,101.9,102.1
spoint,,102.0,-45.0,-816.0
fsum
nelem
/com
/com Internal forces at x = -102.0 LINE A
/com
nsel,r,loc,x,-102.1,-101.9
spoint,, -102.0,-45.0,-816.0
fsum
nelem
/com
/com next strip z = -714 to -510 Lines 4 to 5
/com
/com
/com Select all nodes in pad only
```



```
/com
esel,type,1
nelem
/com
/com select strip x direction z = -714 to -510
/com
nsel,r,loc,z,-714.1,-509.9
enode,1
/com
/com Internal forces at x = 714.0 LINE E
/com
nsel,r,loc,x,713.9,714.1
spoint,,714.0,-45.0,-612.0
fsum
nelem
/com
/com Internal forces at x = 510.0 LINE D
/com
nsel,r,loc,x,-102.1,510.1
enode,1
nsel,r,loc,x,509.9,510.1
spoint,,510.0,-45.0,-612.0
fsum
nelem
/com
/com Internal forces at x = 306.0 LINE C
/com
nsel,r,loc,x,-102.1,306.1
enode,1
nsel,r,loc,x,305.9,306.1
spoint,,306.0,-45.0,-612.0
fsum
nelem
/com
/com Internal forces at x = 102.0 LINE B
/com
nsel,r,loc,x,-102.1,102.1
enode,1
nsel,r,loc,x,101.9,102.1
spoint,,102.0,-45.0,-612.0
fsum
nelem
/com
/com Internal forces at x = -102.0 LINE A
/com
nsel,r,loc,x,-102.1,-101.9
spoint,, -102.0,-45.0,-612.0
fsum
nelem
/com
/com next strip z = -510 to -306 Lines 5 to 6
/com
/com
```



```
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip x direction z = -510 to -306
/com
nsel,r,loc,z,-510.1,-305.9
enode,1
/com
/com Internal forces at x = 714.0 LINE E
/com
nsel,r,loc,x,713.9,714.1
spoint,,714.0,-45.0,-408.0
fsum
nelem
/com
/com Internal forces at x = 510.0 LINE D
/com
nsel,r,loc,x,-102.1,510.1
enode,1
nsel,r,loc,x,509.9,510.1
spoint,,510.0,-45.0,-408.0
fsum
nelem
/com
/com Internal forces at x = 306.0 LINE C
/com
nsel,r,loc,x,-102.1,306.1
enode,1
nsel,r,loc,x,305.9,306.1
spoint,,306.0,-45.0,-408.0
fsum
nelem
/com
/com Internal forces at x = 102.0 LINE B
/com
nsel,r,loc,x,-102.1,102.1
enode,1
nsel,r,loc,x,101.9,102.1
spoint,,102.0,-45.0,-408.0
fsum
nelem
/com
/com Internal forces at x = -102.0 LINE A
/com
nsel,r,loc,x,-102.1,-101.9
spoint,, -102.0,-45.0,-408.0
fsum
nelem
/com
/com next strip z = -306 to -102 Lines 6 to 7
/com
```



```
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip x direction z = -306 to -102
/com
nsel,r,loc,z,-306.1,-101.9
enode,1
/com
/com Internal forces at x = 714.0 LINE E
/com
nsel,r,loc,x,713.9,714.1
spoint,,714.0,-45.0,-204.0
fsum
nelem
/com
/com Internal forces at x = 510.0 LINE D
/com
nsel,r,loc,x,-102.1,510.1
enode,1
nsel,r,loc,x,509.9,510.1
spoint,,510.0,-45.0,-204.0
fsum
nelem
/com
/com Internal forces at x = 306.0 LINE C
/com
nsel,r,loc,x,-102.1,306.1
enode,1
nsel,r,loc,x,305.9,306.1
spoint,,306.0,-45.0,-204.0
fsum
nelem
/com
/com Internal forces at x = 102.0 LINE B
/com
nsel,r,loc,x,-102.1,102.1
enode,1
nsel,r,loc,x,101.9,102.1
spoint,,102.0,-45.0,-204.0
fsum
nelem
/com
/com Internal forces at x = -102.0 LINE A
/com
nsel,r,loc,x,-102.1,-101.9
spoint,, -102.0,-45.0,-204.0
fsum
nelem
/com
/com next strip z = -102 to 102 Lines 7 to 8
```

**ENERCON
SERVICES, INC.****Appendix FC-2 to Calculation PGE-009-CALC-003**

```
/com
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip x direction z = -102 to 102
/com
nsel,r,loc,z,-102.1,102.1
enode,1
/com
/com Internal forces at x = 714.0 LINE E
/com
nsel,r,loc,x,713.9,714.1
spoint,,714.0,-45.0,0.0
fsum
nelem
/com
/com Internal forces at x = 510.0 LINE D
/com
nsel,r,loc,x,-102.1,510.1
enode,1
nsel,r,loc,x,509.9,510.1
spoint,,510.0,-45.0,0.0
fsum
nelem
/com
/com Internal forces at x = 306.0 LINE C
/com
nsel,r,loc,x,-102.1,306.1
enode,1
nsel,r,loc,x,305.9,306.1
spoint,,306.0,-45.0,0.0
fsum
nelem
/com
/com Internal forces at x = 102.0 LINE B
/com
nsel,r,loc,x,-102.1,102.1
enode,1
nsel,r,loc,x,101.9,102.1
spoint,,102.0,-45.0,0.0
fsum
nelem
/com
/com Internal forces at x = -102.0 LINE A
/com
nsel,r,loc,x,-102.1,-101.9
spoint,, -102.0,-45.0,0.0
fsum
nelem
/com
```




```
/com next strip z = 102 to 222 Lines 8 to 10
/com
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip x direction z = 102 to 222
/com
nsel,r,loc,z,101.9,222.1
enode,1
/com
/com Internal forces at x = 714.0 LINE E
/com
nsel,r,loc,x,713.9,714.1
spoint,,714.0,-45.0,162.0
fsum
nelem
/com
/com Internal forces at x = 510.0 LINE D
/com
nsel,r,loc,x,-102.1,510.1
enode,1
nsel,r,loc,x,509.9,510.1
spoint,,510.0,-45.0,162.0
fsum
nelem
/com
/com Internal forces at x = 306.0 LINE C
/com
nsel,r,loc,x,-102.1,306.1
enode,1
nsel,r,loc,x,305.9,306.1
spoint,,306.0,-45.0,162.0
fsum
nelem
/com
/com Internal forces at x = 102.0 LINE B
/com
nsel,r,loc,x,-102.1,102.1
enode,1
nsel,r,loc,x,101.9,102.1
spoint,,102.0,-45.0,162.0
fsum
nelem
/com
/com Internal forces at x = -102.0 LINE A
/com
nsel,r,loc,x,-102.1,-101.9
spoint,, -102.0,-45.0,162.0
fsum
eall
```



**ENERCON
SERVICES, INC.**

Appendix FC-2 to Calculation PGE-009-CALC-003

```

nall
/com *****
/com *****
/com ***** LOAD CASE 2 *****
set,2
/com
/com SECTION THE PAD IN TO 4 NORTH-SOUTH Z-DIRECTION STRIPS
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip Z direction x = -102 to 102 Lines A to B
/com
nsel,r,loc,x,-102.1,102.1
enode,1
/com
/com Internal forces at Z = 222.0 LINE 10
/com
nsel,r,loc,z,221.9,222.1
spoint,,0,-45.0,222.0
fsum
nelem
/com
/com Internal forces at Z = 162.0 LINE 9
/com
nsel,r,loc,z,-1038.1,162.1
enode,1
nsel,r,loc,z,161.9,162.1
spoint,,0,-45.0,162.0
fsum
nelem
/com
/com Internal forces at Z = 102.0 LINE 8
/com
nsel,r,loc,z,-1038.1,102.1
enode,1
nsel,r,loc,z,101.9,102.1
spoint,,0,-45.0,102.0
fsum
nelem
/com
/com Internal forces at Z = -102.0 LINE 7
/com
nsel,r,loc,z,-1038.1,-101.9
enode,1
nsel,r,loc,z,-101.9,-102.1
spoint,,0,-45.0,-102.0
fsum
nelem
/com
/com Internal forces at Z = -306.0 LINE 6

```



Appendix FC-2 to Calculation PGE-009-CALC-003

```
/com
nsel,r,loc,z,-1038.1,-305.9
enode,1
nsel,r,loc,z,-305.9,-306.1
spoint,,0,-45.0,-306.0
fsum
nelem
/com
/com Internal forces at Z = -510.0 LINE 5
/com
nsel,r,loc,z,-1038.1,-509.9
enode,1
nsel,r,loc,z,-509.9,-510.1
spoint,,0,-45.0,-510.0
fsum
nelem
/com
/com Internal forces at Z = -714.0 LINE 4
/com
nsel,r,loc,z,-1038.1,-713.9
enode,1
nsel,r,loc,z,-713.9,-714.1
spoint,,0,-45.0,-714.0
fsum
nelem
/com
/com Internal forces at Z = -918.0 LINE 3
/com
nsel,r,loc,z,-1038.1,-917.9
enode,1
nsel,r,loc,z,-917.9,-918.1
spoint,,0,-45.0,-918.0
fsum
nelem
/com
/com Internal forces at Z = -978.0 LINE 2
/com
nsel,r,loc,z,-1038.1,-977.9
enode,1
nsel,r,loc,z,-977.9,-978.1
spoint,,0,-45.0,-978.0
fsum
nelem
/com
/com Internal forces at Z = -1038.0 LINE 1
/com
nsel,r,loc,z,-1037.9,-1038.1
spoint,,0,-45.0,-1038.0
fsum
/com next strip x = 102 to 306 Lines B to C
/com
/com Select all nodes in pad only
/com
```



**ENERCON
SERVICES, INC.**

Appendix FC-2 to Calculation PGE-009-CALC-003

```

esel,type,1
nelem
/com
/com select strip Z direction
/com
nsel,r,loc,x,101.9,306.1
enode,1
/com
/com Internal forces at Z = 222.0 LINE 10
/com
nsel,r,loc,z,221.9,222.1
spoint,,204.0,-45.0,222.0
fsum
nelem
/com
/com Internal forces at Z = 162.0 LINE 9
/com
nsel,r,loc,z,-1038.1,162.1
enode,1
nsel,r,loc,z,161.9,162.1
spoint,,204.0,-45.0,162.0
fsum
nelem
/com
/com Internal forces at Z = 102.0 LINE 8
/com
nsel,r,loc,z,-1038.1,102.1
enode,1
nsel,r,loc,z,101.9,102.1
spoint,,204.0,-45.0,102.0
fsum
nelem
/com
/com Internal forces at Z = -102.0 LINE 7
/com
nsel,r,loc,z,-1038.1,-101.9
enode,1
nsel,r,loc,z,-101.9,-102.1
spoint,,204.0,-45.0,-102.0
fsum
nelem
/com
/com Internal forces at Z = -306.0 LINE 6
/com
nsel,r,loc,z,-1038.1,-305.9
enode,1
nsel,r,loc,z,-305.9,-306.1
spoint,,204.0,-45.0,-306.0
fsum
nelem
/com
/com Internal forces at Z = -510.0 LINE 5
/com

```



```
nsel,r,loc,z,-1038.1,-509.9
enode,1
nsel,r,loc,z,-509.9,-510.1
spoint,,204.0,-45.0,-510.0
fsum
nelem
/com
/com Internal forces at Z = -714.0 LINE 4
/com
nsel,r,loc,z,-1038.1,-713.9
enode,1
nsel,r,loc,z,-713.9,-714.1
spoint,,204.0,-45.0,-714.0
fsum
nelem
/com
/com Internal forces at Z = -918.0 LINE 3
/com
nsel,r,loc,z,-1038.1,-917.9
enode,1
nsel,r,loc,z,-917.9,-918.1
spoint,,204.0,-45.0,-918.0
fsum
nelem
/com
/com Internal forces at Z = -978.0 LINE 2
/com
nsel,r,loc,z,-1038.1,-977.9
enode,1
nsel,r,loc,z,-977.9,-978.1
spoint,,204.0,-45.0,-978.0
fsum
nelem
/com
/com Internal forces at Z = -1038.0 LINE 1
/com
nsel,r,loc,z,-1037.9,-1038.1
spoint,,204.0,-45.0,-1038.0
fsum
/com next strip x = 306 to 510 Lines C to D
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip Z direction
/com
nsel,r,loc,x,305.9,510.1
enode,1
/com
/com Internal forces at Z = 222.0 LINE 10
/com
```

**ENERCON
SERVICES, INC.****Appendix FC-2 to Calculation PGE-009-CALC-003**

```
nsel,r,loc,z,221.9,222.1
spoint,,408.0,-45.0,222.0
fsum
nelem
/com
/com Internal forces at Z = 162.0 LINE 9
/com
nsel,r,loc,z,-1038.1,162.1
enode,1
nsel,r,loc,z,161.9,162.1
spoint,,408.0,-45.0,162.0
fsum
nelem
/com
/com Internal forces at Z = 102.0 LINE 8
/com
nsel,r,loc,z,-1038.1,102.1
enode,1
nsel,r,loc,z,101.9,102.1
spoint,,408.0,-45.0,102.0
fsum
nelem
/com
/com Internal forces at Z = -102.0 LINE 7
/com
nsel,r,loc,z,-1038.1,-101.9
enode,1
nsel,r,loc,z,-101.9,-102.1
spoint,,408.0,-45.0,-102.0
fsum
nelem
/com
/com Internal forces at Z = -306.0 LINE 6
/com
nsel,r,loc,z,-1038.1,-305.9
enode,1
nsel,r,loc,z,-305.9,-306.1
spoint,,408.0,-45.0,-306.0
fsum
nelem
/com
/com Internal forces at Z = -510.0 LINE 5
/com
nsel,r,loc,z,-1038.1,-509.9
enode,1
nsel,r,loc,z,-509.9,-510.1
spoint,,408.0,-45.0,-510.0
fsum
nelem
/com
/com Internal forces at Z = -714.0 LINE 4
/com
nsel,r,loc,z,-1038.1,-713.9
```



```
enode,1
nsel,r,loc,z,-713.9,-714.1
spoint,,408.0,-45.0,-714.0
fsum
nelem
/com
/com Internal forces at Z = -918.0 LINE 3
/com
nsel,r,loc,z,-1038.1,-917.9
enode,1
nsel,r,loc,z,-917.9,-918.1
spoint,,408.0,-45.0,-918.0
fsum
nelem
/com
/com Internal forces at Z = -978.0 LINE 2
/com
nsel,r,loc,z,-1038.1,-977.9
enode,1
nsel,r,loc,z,-977.9,-978.1
spoint,,408.0,-45.0,-978.0
fsum
nelem
/com
/com Internal forces at Z = -1038.0 LINE 1
/com
nsel,r,loc,z,-1037.9,-1038.1
spoint,,408.0,-45.0,-1038.0
fsum
/com next strip x = 510 to 714 Lines D to E
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip Z direction
/com
nsel,r,loc,x,509.9,714.1
enode,1
/com
/com Internal forces at Z = 222.0 LINE 10
/com
nsel,r,loc,z,221.9,222.1
spoint,,612.0,-45.0,222.0
fsum
nelem
/com
/com Internal forces at Z = 162.0 LINE 9
/com
nsel,r,loc,z,-1038.1,162.1
enode,1
nsel,r,loc,z,161.9,162.1
```

**ENERCON
SERVICES, INC.****Appendix FC-2 to Calculation PGE-009-CALC-003**

```
spoint,,612.0,-45.0,162.0
fsum
nelem
/com
/com Internal forces at Z = 102.0 LINE 8
/com
nsel,r,loc,z,-1038.1,102.1
enode,1
nsel,r,loc,z,101.9,102.1
spoint,,612.0,-45.0,102.0
fsum
nelem
/com
/com Internal forces at Z = -102.0 LINE 7
/com
nsel,r,loc,z,-1038.1,-101.9
enode,1
nsel,r,loc,z,-101.9,-102.1
spoint,,612.0,-45.0,-102.0
fsum
nelem
/com
/com Internal forces at Z = -306.0 LINE 6
/com
nsel,r,loc,z,-1038.1,-305.9
enode,1
nsel,r,loc,z,-305.9,-306.1
spoint,,612.0,-45.0,-306.0
fsum
nelem
/com
/com Internal forces at Z = -510.0 LINE 5
/com
nsel,r,loc,z,-1038.1,-509.9
enode,1
nsel,r,loc,z,-509.9,-510.1
spoint,,612.0,-45.0,-510.0
fsum
nelem
/com
/com Internal forces at Z = -714.0 LINE 4
/com
nsel,r,loc,z,-1038.1,-713.9
enode,1
nsel,r,loc,z,-713.9,-714.1
spoint,,612.0,-45.0,-714.0
fsum
nelem
/com
/com Internal forces at Z = -918.0 LINE 3
/com
nsel,r,loc,z,-1038.1,-917.9
enode,1
```




```
nsel,r,loc,z,-917.9,-918.1
spoint,,612.0,-45.0,-918.0
fsum
nelem
/com
/com Internal forces at Z = -978.0 LINE 2
/com
nsel,r,loc,z,-1038.1,-977.9
enode,1
nsel,r,loc,z,-977.9,-978.1
spoint,,612.0,-45.0,-978.0
fsum
nelem
/com
/com Internal forces at Z = -1038.0 LINE 1
/com
nsel,r,loc,z,-1037.9,-1038.1
spoint,,612.0,-45.0,-1038.0
fsum
/com *****
/com *****
/com
/COM SECTION THE PAD IN TO 7 EAST-WEST X-DIRECTION STRIPS
/COM
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip x direction z = -1038 to -918 Lines 1 to 3
/com
nsel,r,loc,z,-1038.1,-917.9
enode,1
/com
/com Internal forces at x = 714.0 LINE E
/com
nsel,r,loc,x,713.9,714.1
spoint,,714.0,-45.0,-978.0
fsum
nelem
/com
/com Internal forces at x = 510.0 LINE D
/com
nsel,r,loc,x,-102.1,510.1
enode,1
nsel,r,loc,x,509.9,510.1
spoint,,510.0,-45.0,-978.0
fsum
nelem
/com
/com Internal forces at x = 306.0 LINE C
/com
nsel,r,loc,x,-102.1,306.1
```



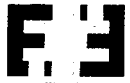
**ENERCON
SERVICES, INC.**

Appendix FC-2 to Calculation PGE-009-CALC-003

```

enode,1
nsel,r,loc,x,305.9,306.1
spoint,,306.0,-45.0,-978.0
fsum
nelem
/com
/com Internal forces at x = 102.0 LINE B
/com
nsel,r,loc,x,-102.1,102.1
enode,1
nsel,r,loc,x,101.9,102.1
spoint,,102.0,-45.0,-978.0
fsum
nelem
/com
/com Internal forces at x = -102.0 LINE A
/com
nsel,r,loc,x,-102.1,-101.9
spoint,, -102.0,-45.0,-978.0
fsum
nelem
/com
/com next strip z = -918 to -714 Lines 3 to 4
/com
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip x direction z = -918 to -714
/com
nsel,r,loc,z,-918.1,-713.9
enode,1
/com
/com Internal forces at x = 714.0 LINE E
/com
nsel,r,loc,x,713.9,714.1
spoint,,714.0,-45.0,-816.0
fsum
nelem
/com
/com Internal forces at x = 510.0 LINE D
/com
nsel,r,loc,x,-102.1,510.1
enode,1
nsel,r,loc,x,509.9,510.1
spoint,,510.0,-45.0,-816.0
fsum
nelem
/com
/com Internal forces at x = 306.0 LINE C
/com

```



Appendix FC-2 to Calculation PGE-009-CALC-003

```
nsel,r,loc,x,-102.1,306.1
enode,1
nsel,r,loc,x,305.9,306.1
spoint,,306.0,-45.0,-816.0
fsum
nelem
/com
/com Internal forces at x = 102.0 LINE B
/com
nsel,r,loc,x,-102.1,102.1
enode,1
nsel,r,loc,x,101.9,102.1
spoint,,102.0,-45.0,-816.0
fsum
nelem
/com
/com Internal forces at x = -102.0 LINE A
/com
nsel,r,loc,x,-102.1,-101.9
spoint,, -102.0,-45.0,-816.0
fsum
nelem
/com
/com next strip z = -714 to -510 Lines 4 to 5
/com
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip x direction z = -714 to -510
/com
nsel,r,loc,z,-714.1,-509.9
enode,1
/com
/com Internal forces at x = 714.0 LINE E
/com
nsel,r,loc,x,713.9,714.1
spoint,,714.0,-45.0,-612.0
fsum
nelem
/com
/com Internal forces at x = 510.0 LINE D
/com
nsel,r,loc,x,-102.1,510.1
enode,1
nsel,r,loc,x,509.9,510.1
spoint,,510.0,-45.0,-612.0
fsum
nelem
/com
/com Internal forces at x = 306.0 LINE C
```



```
/com
nsel,r,loc,x,-102.1,306.1
enode,1
nsel,r,loc,x,305.9,306.1
spoint,,306.0,-45.0,-612.0
fsum
nelem
/com
/com Internal forces at x = 102.0 LINE B
/com
nsel,r,loc,x,-102.1,102.1
enode,1
nsel,r,loc,x,101.9,102.1
spoint,,102.0,-45.0,-612.0
fsum
nelem
/com
/com Internal forces at x = -102.0 LINE A
/com
nsel,r,loc,x,-102.1,-101.9
spoint,, -102.0,-45.0,-612.0
fsum
nelem
/com
/com next strip z = -510 to -306 Lines 5 to 6
/com
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip x direction z = -510 to -306
/com
nsel,r,loc,z,-510.1,-305.9
enode,1
/com
/com Internal forces at x = 714.0 LINE E
/com
nsel,r,loc,x,713.9,714.1
spoint,,714.0,-45.0,-408.0
fsum
nelem
/com
/com Internal forces at x = 510.0 LINE D
/com
nsel,r,loc,x,-102.1,510.1
enode,1
nsel,r,loc,x,509.9,510.1
spoint,,510.0,-45.0,-408.0
fsum
nelem
/com
```



Appendix FC-2 to Calculation PGE-009-CALC-003

```
/com Internal forces at x = 306.0 LINE C
/com
nsel,r,loc,x,-102.1,306.1
enode,1
nsel,r,loc,x,305.9,306.1
spoint,,306.0,-45.0,-408.0
fsum
nelem
/com
/com Internal forces at x = 102.0 LINE B
/com
nsel,r,loc,x,-102.1,102.1
enode,1
nsel,r,loc,x,101.9,102.1
spoint,,102.0,-45.0,-408.0
fsum
nelem
/com
/com Internal forces at x = -102.0 LINE A
/com
nsel,r,loc,x,-102.1,-101.9
spoint,, -102.0,-45.0,-408.0
fsum
nelem
/com
/com next strip z = -306 to -102 Lines 6 to 7
/com
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip x direction z = -306 to -102
/com
nsel,r,loc,z,-306.1,-101.9
enode,1
/com
/com Internal forces at x = 714.0 LINE E
/com
nsel,r,loc,x,713.9,714.1
spoint,,714.0,-45.0,-204.0
fsum
nelem
/com
/com Internal forces at x = 510.0 LINE D
/com
nsel,r,loc,x,-102.1,510.1
enode,1
nsel,r,loc,x,509.9,510.1
spoint,,510.0,-45.0,-204.0
fsum
nelem
```



**ENERCON
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Appendix FC-2 to Calculation PGE-009-CALC-003

```

/com
/com Internal forces at x = 306.0 LINE C
/com
nsel,r,loc,x,-102.1,306.1
enode,1
nsel,r,loc,x,305.9,306.1
spoint,,306.0,-45.0,-204.0
fsum
nelem
/com
/com Internal forces at x = 102.0 LINE B
/com
nsel,r,loc,x,-102.1,102.1
enode,1
nsel,r,loc,x,101.9,102.1
spoint,,102.0,-45.0,-204.0
fsum
nelem
/com
/com Internal forces at x = -102.0 LINE A
/com
nsel,r,loc,x,-102.1,-101.9
spoint,, -102.0,-45.0,-204.0
fsum
nelem
/com
/com next strip z = -102 to 102 Lines 7 to 8
/com
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip x direction z = -102 to 102
/com
nsel,r,loc,z,-102.1,102.1
enode,1
/com
/com Internal forces at x = 714.0 LINE E
/com
nsel,r,loc,x,713.9,714.1
spoint,,714.0,-45.0,0.0
fsum
nelem
/com
/com Internal forces at x = 510.0 LINE D
/com
nsel,r,loc,x,-102.1,510.1
enode,1
nsel,r,loc,x,509.9,510.1
spoint,,510.0,-45.0,0.0
fsum

```



```
nelem
/com
/com Internal forces at x = 306.0 LINE C
/com
nsel,r,loc,x,-102.1,306.1
enode,1
nsel,r,loc,x,305.9,306.1
spoint,,306.0,-45.0,0.0
fsum
nelem
/com
/com Internal forces at x = 102.0 LINE B
/com
nsel,r,loc,x,-102.1,102.1
enode,1
nsel,r,loc,x,101.9,102.1
spoint,,102.0,-45.0,0.0
fsum
nelem
/com
/com Internal forces at x = -102.0 LINE A
/com
nsel,r,loc,x,-102.1,-101.9
spoint,, -102.0,-45.0,0.0
fsum
nelem
/com
/com next strip z = 102 to 222 Lines 8 to 10
/com
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip x direction z = 102 to 222
/com
nsel,r,loc,z,101.9,222.1
enode,1
/com
/com Internal forces at x = 714.0 LINE E
/com
nsel,r,loc,x,713.9,714.1
spoint,,714.0,-45.0,162.0
fsum
nelem
/com
/com Internal forces at x = 510.0 LINE D
/com
nsel,r,loc,x,-102.1,510.1
enode,1
nsel,r,loc,x,509.9,510.1
spoint,,510.0,-45.0,162.0
```



```
fsum
nelem
/com
/com Internal forces at x = 306.0 LINE C
/com
nsel,r,loc,x,-102.1,306.1
enode,1
nsel,r,loc,x,305.9,306.1
spoint,,306.0,-45.0,162.0
fsum
nelem
/com
/com Internal forces at x = 102.0 LINE B
/com
nsel,r,loc,x,-102.1,102.1
enode,1
nsel,r,loc,x,101.9,102.1
spoint,,102.0,-45.0,162.0
fsum
nelem
/com
/com Internal forces at x = -102.0 LINE A
/com
nsel,r,loc,x,-102.1,-101.9
spoint,, -102.0,-45.0,162.0
fsum
eall
nall
/com
/com
/com *****
/com *****
/com ***** LOAD CASE 3 *****
set,3
/COM
/COM SECTION THE PAD IN TO 4 NORTH-SOUTH Z-DIRECTION STRIPS
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip Z direction x = -102 to 102 Lines A to B
/com
nsel,r,loc,x,-102.1,102.1
enode,1
/com
/com Internal forces at Z = 222.0 LINE 10
/com
nsel,r,loc,z,221.9,222.1
spoint,,0,-45.0,222.0
fsum
nelem
```


Appendix FC-2 to Calculation PGE-009-CALC-003

```
/com
/com Internal forces at Z = 162.0 LINE 9
/com
nsel,r,loc,z,-1038.1,162.1
enode,1
nsel,r,loc,z,161.9,162.1
spoint,,0,-45.0,162.0
fsum
nelem
/com
/com Internal forces at Z = 102.0 LINE 8
/com
nsel,r,loc,z,-1038.1,102.1
enode,1
nsel,r,loc,z,101.9,102.1
spoint,,0,-45.0,102.0
fsum
nelem
/com
/com Internal forces at Z = -102.0 LINE 7
/com
nsel,r,loc,z,-1038.1,-101.9
enode,1
nsel,r,loc,z,-101.9,-102.1
spoint,,0,-45.0,-102.0
fsum
nelem
/com
/com Internal forces at Z = -306.0 LINE 6
/com
nsel,r,loc,z,-1038.1,-305.9
enode,1
nsel,r,loc,z,-305.9,-306.1
spoint,,0,-45.0,-306.0
fsum
nelem
/com
/com Internal forces at Z = -510.0 LINE 5
/com
nsel,r,loc,z,-1038.1,-509.9
enode,1
nsel,r,loc,z,-509.9,-510.1
spoint,,0,-45.0,-510.0
fsum
nelem
/com
/com Internal forces at Z = -714.0 LINE 4
/com
nsel,r,loc,z,-1038.1,-713.9
enode,1
nsel,r,loc,z,-713.9,-714.1
spoint,,0,-45.0,-714.0
fsum
```



```
nelem
/com
/com Internal forces at Z = -918.0 LINE 3
/com
nsel,r,loc,z,-1038.1,-917.9
enode,1
nsel,r,loc,z,-917.9,-918.1
spoint,,0,-45.0,-918.0
fsum
nelem
/com
/com Internal forces at Z = -978.0 LINE 2
/com
nsel,r,loc,z,-1038.1,-977.9
enode,1
nsel,r,loc,z,-977.9,-978.1
spoint,,0,-45.0,-978.0
fsum
nelem
/com
/com Internal forces at Z = -1038.0 LINE 1
/com
nsel,r,loc,z,-1037.9,-1038.1
spoint,,0,-45.0,-1038.0
fsum
/com next strip x = 102 to 306 Lines B to C
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip Z direction
/com
nsel,r,loc,x,101.9,306.1
enode,1
/com
/com Internal forces at Z = 222.0 LINE 10
/com
nsel,r,loc,z,221.9,222.1
spoint,,204.0,-45.0,222.0
fsum
nelem
/com
/com Internal forces at Z = 162.0 LINE 9
/com
nsel,r,loc,z,-1038.1,162.1
enode,1
nsel,r,loc,z,161.9,162.1
spoint,,204.0,-45.0,162.0
fsum
nelem
/com
```



Appendix FC-2 to Calculation PGE-009-CALC-003

```
/com Internal forces at Z = 102.0 LINE 8
/com
nsel,r,loc,z,-1038.1,102.1
enode,1
nsel,r,loc,z,101.9,102.1
spoint,,204.0,-45.0,102.0
fsum
nelem
/com
/com Internal forces at Z = -102.0 LINE 7
/com
nsel,r,loc,z,-1038.1,-101.9
enode,1
nsel,r,loc,z,-101.9,-102.1
spoint,,204.0,-45.0,-102.0
fsum
nelem
/com
/com Internal forces at Z = -306.0 LINE 6
/com
nsel,r,loc,z,-1038.1,-305.9
enode,1
nsel,r,loc,z,-305.9,-306.1
spoint,,204.0,-45.0,-306.0
fsum
nelem
/com
/com Internal forces at Z = -510.0 LINE 5
/com
nsel,r,loc,z,-1038.1,-509.9
enode,1
nsel,r,loc,z,-509.9,-510.1
spoint,,204.0,-45.0,-510.0
fsum
nelem
/com
/com Internal forces at Z = -714.0 LINE 4
/com
nsel,r,loc,z,-1038.1,-713.9
enode,1
nsel,r,loc,z,-713.9,-714.1
spoint,,204.0,-45.0,-714.0
fsum
nelem
/com
/com Internal forces at Z = -918.0 LINE 3
/com
nsel,r,loc,z,-1038.1,-917.9
enode,1
nsel,r,loc,z,-917.9,-918.1
spoint,,204.0,-45.0,-918.0
fsum
nelem
```



```
/com
/com Internal forces at Z = -978.0 LINE 2
/com
nsel,r,loc,z,-1038.1,-977.9
enode,1
nsel,r,loc,z,-977.9,-978.1
spoint,,204.0,-45.0,-978.0
fsum
nelem
/com
/com Internal forces at Z = -1038.0      LINE 1
/com
nsel,r,loc,z,-1037.9,-1038.1
spoint,,204.0,-45.0,-1038.0
fsum
/com next strip x = 306 to 510 Lines C to D
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip Z direction
/com
nsel,r,loc,x,305.9,510.1
enode,1
/com
/com Internal forces at Z = 222.0 LINE 10
/com
nsel,r,loc,z,221.9,222.1
spoint,,408.0,-45.0,222.0
fsum
nelem
/com
/com Internal forces at Z = 162.0 LINE 9
/com
nsel,r,loc,z,-1038.1,162.1
enode,1
nsel,r,loc,z,161.9,162.1
spoint,,408.0,-45.0,162.0
fsum
nelem
/com
/com Internal forces at Z = 102.0 LINE 8
/com
nsel,r,loc,z,-1038.1,102.1
enode,1
nsel,r,loc,z,101.9,102.1
spoint,,408.0,-45.0,102.0
fsum
nelem
/com
/com Internal forces at Z = -102.0 LINE 7
```



```
/com
nsel,r,loc,z,-1038.1,-101.9
enode,1
nsel,r,loc,z,-101.9,-102.1
spoint,,408.0,-45.0,-102.0
fsum
nelem
/com
/com Internal forces at Z = -306.0 LINE 6
/com
nsel,r,loc,z,-1038.1,-305.9
enode,1
nsel,r,loc,z,-305.9,-306.1
spoint,,408.0,-45.0,-306.0
fsum
nelem
/com
/com Internal forces at Z = -510.0 LINE 5
/com
nsel,r,loc,z,-1038.1,-509.9
enode,1
nsel,r,loc,z,-509.9,-510.1
spoint,,408.0,-45.0,-510.0
fsum
nelem
/com
/com Internal forces at Z = -714.0 LINE 4
/com
nsel,r,loc,z,-1038.1,-713.9
enode,1
nsel,r,loc,z,-713.9,-714.1
spoint,,408.0,-45.0,-714.0
fsum
nelem
/com
/com Internal forces at Z = -918.0 LINE 3
/com
nsel,r,loc,z,-1038.1,-917.9
enode,1
nsel,r,loc,z,-917.9,-918.1
spoint,,408.0,-45.0,-918.0
fsum
nelem
/com
/com Internal forces at Z = -978.0 LINE 2
/com
nsel,r,loc,z,-1038.1,-977.9
enode,1
nsel,r,loc,z,-977.9,-978.1
spoint,,408.0,-45.0,-978.0
fsum
nelem
/com
```

**ENERCON
SERVICES, INC.****Appendix FC-2 to Calculation PGE-009-CALC-003**

```
/com Internal forces at Z = -1038.0      LINE 1
/com
/com nsel,r,loc,z,-1037.9,-1038.1
/com spoint,,408.0,-45.0,-1038.0
/com fsum
/com next strip x = 510 to 714 Lines D to E
/com
/com Select all nodes in pad only
/com
/com esel,type,1
/com nelem
/com
/com select strip Z direction
/com
/com nsel,r,loc,x,509.9,714.1
/com enode,1
/com
/com Internal forces at Z = 222.0 LINE 10
/com
/com nsel,r,loc,z,221.9,222.1
/com spoint,,612.0,-45.0,222.0
/com fsum
/com nelem
/com
/com Internal forces at Z = 162.0 LINE 9
/com
/com nsel,r,loc,z,-1038.1,162.1
/com enode,1
/com nsel,r,loc,z,161.9,162.1
/com spoint,,612.0,-45.0,162.0
/com fsum
/com nelem
/com
/com Internal forces at Z = 102.0 LINE 8
/com
/com nsel,r,loc,z,-1038.1,102.1
/com enode,1
/com nsel,r,loc,z,101.9,102.1
/com spoint,,612.0,-45.0,102.0
/com fsum
/com nelem
/com
/com Internal forces at Z = -102.0 LINE 7
/com
/com nsel,r,loc,z,-1038.1,-101.9
/com enode,1
/com nsel,r,loc,z,-101.9,-102.1
/com spoint,,612.0,-45.0,-102.0
/com fsum
/com nelem
/com
/com Internal forces at Z = -306.0 LINE 6
/com
```



Appendix FC-2 to Calculation PGE-009-CALC-003

```
nsel,r,loc,z,-1038.1,-305.9
enode,1
nsel,r,loc,z,-305.9,-306.1
spoint,,612.0,-45.0,-306.0
fsum
nelem
/com
/com Internal forces at Z = -510.0 LINE 5
/com
nsel,r,loc,z,-1038.1,-509.9
enode,1
nsel,r,loc,z,-509.9,-510.1
spoint,,612.0,-45.0,-510.0
fsum
nelem
/com
/com Internal forces at Z = -714.0 LINE 4
/com
nsel,r,loc,z,-1038.1,-713.9
enode,1
nsel,r,loc,z,-713.9,-714.1
spoint,,612.0,-45.0,-714.0
fsum
nelem
/com
/com Internal forces at Z = -918.0 LINE 3
/com
nsel,r,loc,z,-1038.1,-917.9
enode,1
nsel,r,loc,z,-917.9,-918.1
spoint,,612.0,-45.0,-918.0
fsum
nelem
/com
/com Internal forces at Z = -978.0 LINE 2
/com
nsel,r,loc,z,-1038.1,-977.9
enode,1
nsel,r,loc,z,-977.9,-978.1
spoint,,612.0,-45.0,-978.0
fsum
nelem
/com
/com Internal forces at Z = -1038.0 LINE 1
/com
nsel,r,loc,z,-1037.9,-1038.1
spoint,,612.0,-45.0,-1038.0
fsum
/com *****
/com *****
/com *****
/COM SECTION THE PAD IN TO 7 EAST-WEST X-DIRECTION STRIPS
/COM
```



```
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip x direction z = -1038 to -918 Lines 1 to 3
/com
nsel,r,loc,z,-1038.1,-917.9
enode,1
/com
/com Internal forces at x = 714.0 LINE E
/com
nsel,r,loc,x,713.9,714.1
spoint,,714.0,-45.0,-978.0
fsum
nelem
/com
/com Internal forces at x = 510.0 LINE D
/com
nsel,r,loc,x,-102.1,510.1
enode,1
nsel,r,loc,x,509.9,510.1
spoint,,510.0,-45.0,-978.0
fsum
nelem
/com
/com Internal forces at x = 306.0 LINE C
/com
nsel,r,loc,x,-102.1,306.1
enode,1
nsel,r,loc,x,305.9,306.1
spoint,,306.0,-45.0,-978.0
fsum
nelem
/com
/com Internal forces at x = 102.0 LINE B
/com
nsel,r,loc,x,-102.1,102.1
enode,1
nsel,r,loc,x,101.9,102.1
spoint,,102.0,-45.0,-978.0
fsum
nelem
/com
/com Internal forces at x = -102.0 LINE A
/com
nsel,r,loc,x,-102.1,-101.9
spoint,, -102.0,-45.0,-978.0
fsum
nelem
/com
/com next strip z = -918 to -714 Lines 3 to 4
/com
```




```
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip x direction z = -918 to -714
/com
nsel,r,loc,z,-918.1,-713.9
enode,1
/com
/com Internal forces at x = 714.0 LINE E
/com
nsel,r,loc,x,713.9,714.1
spoint,,714.0,-45.0,-816.0
fsum
nelem
/com
/com Internal forces at x = 510.0 LINE D
/com
nsel,r,loc,x,-102.1,510.1
enode,1
nsel,r,loc,x,509.9,510.1
spoint,,510.0,-45.0,-816.0
fsum
nelem
/com
/com Internal forces at x = 306.0 LINE C
/com
nsel,r,loc,x,-102.1,306.1
enode,1
nsel,r,loc,x,305.9,306.1
spoint,,306.0,-45.0,-816.0
fsum
nelem
/com
/com Internal forces at x = 102.0 LINE B
/com
nsel,r,loc,x,-102.1,102.1
enode,1
nsel,r,loc,x,101.9,102.1
spoint,,102.0,-45.0,-816.0
fsum
nelem
/com
/com Internal forces at x = -102.0 LINE A
/com
nsel,r,loc,x,-102.1,-101.9
spoint,, -102.0,-45.0,-816.0
fsum
nelem
/com
/com next strip z = -714 to -510 Lines 4 to 5
```



```
/com
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip x direction z = -714 to -510
/com
nsel,r,loc,z,-714.1,-509.9
enode,1
/com
/com Internal forces at x = 714.0 LINE E
/com
nsel,r,loc,x,713.9,714.1
spoint,,714.0,-45.0,-612.0
fsum
nelem
/com
/com Internal forces at x = 510.0 LINE D
/com
nsel,r,loc,x,-102.1,510.1
enode,1
nsel,r,loc,x,509.9,510.1
spoint,,510.0,-45.0,-612.0
fsum
nelem
/com
/com Internal forces at x = 306.0 LINE C
/com
nsel,r,loc,x,-102.1,306.1
enode,1
nsel,r,loc,x,305.9,306.1
spoint,,306.0,-45.0,-612.0
fsum
nelem
/com
/com Internal forces at x = 102.0 LINE B
/com
nsel,r,loc,x,-102.1,102.1
enode,1
nsel,r,loc,x,101.9,102.1
spoint,,102.0,-45.0,-612.0
fsum
nelem
/com
/com Internal forces at x = -102.0 LINE A
/com
nsel,r,loc,x,-102.1,-101.9
spoint,, -102.0,-45.0,-612.0
fsum
nelem
/com
```



```
/com next strip z = -510 to -306 Lines 5 to 6
/com
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip x direction z = -510 to -306
/com
nsel,r,loc,z,-510.1,-305.9
enode,1
/com
/com Internal forces at x = 714.0 LINE E
/com
nsel,r,loc,x,713.9,714.1
spoint,,714.0,-45.0,-408.0
fsum
nelem
/com
/com Internal forces at x = 510.0 LINE D
/com
nsel,r,loc,x,-102.1,510.1
enode,1
nsel,r,loc,x,509.9,510.1
spoint,,510.0,-45.0,-408.0
fsum
nelem
/com
/com Internal forces at x = 306.0 LINE C
/com
nsel,r,loc,x,-102.1,306.1
enode,1
nsel,r,loc,x,305.9,306.1
spoint,,306.0,-45.0,-408.0
fsum
nelem
/com
/com Internal forces at x = 102.0 LINE B
/com
nsel,r,loc,x,-102.1,102.1
enode,1
nsel,r,loc,x,101.9,102.1
spoint,,102.0,-45.0,-408.0
fsum
nelem
/com
/com Internal forces at x = -102.0 LINE A
/com
nsel,r,loc,x,-102.1,-101.9
spoint,, -102.0,-45.0,-408.0
fsum
nelem
```



ENERCON
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Appendix FC-2 to Calculation PGE-009-CALC-003

```

/com
/com next strip z = -306 to -102 Lines 6 to 7
/com
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip x direction z = -306 to -102
/com
nsel,r,loc,z,-306.1,-101.9
enode,1
/com
/com Internal forces at x = 714.0 LINE E
/com
nsel,r,loc,x,713.9,714.1
spoint,,714.0,-45.0,-204.0
fsum
nelem
/com
/com Internal forces at x = 510.0 LINE D
/com
nsel,r,loc,x,-102.1,510.1
enode,1
nsel,r,loc,x,509.9,510.1
spoint,,510.0,-45.0,-204.0
fsum
nelem
/com
/com Internal forces at x = 306.0 LINE C
/com
nsel,r,loc,x,-102.1,306.1
enode,1
nsel,r,loc,x,305.9,306.1
spoint,,306.0,-45.0,-204.0
fsum
nelem
/com
/com Internal forces at x = 102.0 LINE B
/com
nsel,r,loc,x,-102.1,102.1
enode,1
nsel,r,loc,x,101.9,102.1
spoint,,102.0,-45.0,-204.0
fsum
nelem
/com
/com Internal forces at x = -102.0 LINE A
/com
nsel,r,loc,x,-102.1,-101.9
spoint,, -102.0,-45.0,-204.0
fsum

```



```
nelem
/com
/com next strip z = -102 to 102 Lines 7 to 8
/com
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip x direction z = -102 to 102
/com
nsel,r,loc,z,-102.1,102.1
enode,1
/com
/com Internal forces at x = 714.0 LINE E
/com
nsel,r,loc,x,713.9,714.1
spoint,,714.0,-45.0,0.0
fsum
nelem
/com
/com Internal forces at x = 510.0 LINE D
/com
nsel,r,loc,x,-102.1,510.1
enode,1
nsel,r,loc,x,509.9,510.1
spoint,,510.0,-45.0,0.0
fsum
nelem
/com
/com Internal forces at x = 306.0 LINE C
/com
nsel,r,loc,x,-102.1,306.1
enode,1
nsel,r,loc,x,305.9,306.1
spoint,,306.0,-45.0,0.0
fsum
nelem
/com
/com Internal forces at x = 102.0 LINE B
/com
nsel,r,loc,x,-102.1,102.1
enode,1
nsel,r,loc,x,101.9,102.1
spoint,,102.0,-45.0,0.0
fsum
nelem
/com
/com Internal forces at x = -102.0 LINE A
/com
nsel,r,loc,x,-102.1,-101.9
spoint,, -102.0,-45.0,0.0
```

```
fsum
nelem
/com
/com next strip z = 102 to 222 Lines 8 to 10
/com
/com
/com Select all nodes in pad only
/com
esel,type,1
nelem
/com
/com select strip x direction z = 102 to 222
/com
nsel,r,loc,z,101.9,222.1
enode,1
/com
/com Internal forces at x = 714.0 LINE E
/com
nsel,r,loc,x,713.9,714.1
spoint,,714.0,-45.0,162.0
fsum
nelem
/com
/com Internal forces at x = 510.0 LINE D
/com
nsel,r,loc,x,-102.1,510.1
enode,1
nsel,r,loc,x,509.9,510.1
spoint,,510.0,-45.0,162.0
fsum
nelem
/com
/com Internal forces at x = 306.0 LINE C
/com
nsel,r,loc,x,-102.1,306.1
enode,1
nsel,r,loc,x,305.9,306.1
spoint,,306.0,-45.0,162.0
fsum
nelem
/com
/com Internal forces at x = 102.0 LINE B
/com
nsel,r,loc,x,-102.1,102.1
enode,1
nsel,r,loc,x,101.9,102.1
spoint,,102.0,-45.0,162.0
fsum
nelem
/com
/com Internal forces at x = -102.0 LINE A
/com
nsel,r,loc,x,-102.1,-101.9
```



**ENERCON
SERVICES, INC.**

Appendix FC-2 to Calculation PGE-009-CALC-003

```
spoint, , -102.0, -45.0, 162.0  
fsum  
eall  
nall  
fini  
/output  
/exit
```



Below is the ANSYS output file for pad internal forces for the soft rock analyses with $Nu = 0.23$.

```
*****
*****
*****
*****
*****
*****
```

```
***** Soft Rock Results *****
```

CURRENT JOBNAME REDEFINED AS dcslabs9

RESUME ANSYS DATA FROM FILE NAME=dcslabs9.db

*** ANSYS GLOBAL STATUS ***

TITLE = Pad, LTSP(2), 20 Casks, 440 Kip West (X), Soft Rock ($Nu = 0.23$)

ANALYSIS TYPE = STATIC (STEADY-STATE)

NUMBER OF ELEMENT TYPES = 6

15348 ELEMENTS CURRENTLY SELECTED. MAX ELEMENT NUMBER = 33177

17051 NODES CURRENTLY SELECTED. MAX NODE NUMBER = 17051

259 KEYPOINTS CURRENTLY SELECTED. MAX KEYPOINT NUMBER = 259

250 LINES CURRENTLY SELECTED. MAX LINE NUMBER = 396

181 AREAS CURRENTLY SELECTED. MAX AREA NUMBER = 295

70 VOLUMES CURRENTLY SELECTED. MAX VOL. NUMBER = 70

11 COMPONENTS CURRENTLY DEFINED

MAXIMUM LINEAR PROPERTY NUMBER = 5

MAXIMUM REAL CONSTANT SET NUMBER = 6

ACTIVE COORDINATE SYSTEM = 0 (CARTESIAN)

MAXIMUM CONSTRAINT EQUATION NUMBER = 4620

NUMBER OF SPECIFIED CONSTRAINTS = 2193

NUMBER OF NODAL LOADS = 2160

INITIAL JOBNAME = dcslabs9

CURRENT JOBNAME = dcslabs9

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

***** ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 5.7 *****

ANSYS/Structural U

00150104 VERSION=INTEL NT 17:14:28 JUL 11, 2001 CP= 3.545

Pad, LTSP(2), 20 Casks, 440 Kip West (X), Soft Rock ($Nu = 0.23$)



Appendix FC-2 to Calculation PGE-009-CALC-003

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

ENTER /SHOW,DEVICE-NAME TO ENABLE GRAPHIC DISPLAY
ENTER FINISH TO LEAVE POST1

*** NOTE *** CP= 3.545 TIME= 17:14:28
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).

15348 ELEMENTS (OF 15348 DEFINED) SELECTED BY EALL COMMAND.

17051 NODES (OF 17051 DEFINED) SELECTED BY NALL COMMAND.

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

USE LOAD STEP 1 SUBSTEP 0 FOR LOAD CASE 0

SET COMMAND GOT LOAD STEP= 1 SUBSTEP= 1 CUMULATIVE ITERATION= 12
TIME/FREQUENCY= 1.0000
TITLE= Pad, HE(1), 20 Casks, 515 Kip N (Z), Soft Rock (Nu = 0.23)

SECTION THE PAD IN TO 4 NORTH-SOUTH Z-DIRECTION STRIPS

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = -102 to 102 Lines A to B

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10
KABS= 0. TOLERANCE= 0.204200E-05

3000 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2830 ELEMENTS (OF 15348 DEFINED) SELECTED FROM



ENERCON
SERVICES, INC.

Appendix FC-2 to Calculation PGE-009-CALC-003

3000 SELECTED NODES BY ENOD COMMAND.

Internal forces at Z = 222.0 LINE 10

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 221.90 AND 222.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 222.000

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

FX = -253147.1
FY = -486235.6
FZ = 1056226.
MX = -0.4768628E+08
MY = 0.1393207E+08
MZ = 582824.8

SUMMATION POINT= 0.0000 -45.000 222.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

3000 NODES (OF 17051 DEFINED) SELECTED FROM
2830 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = 162.0 LINE 9

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 162.10
KABS= 0. TOLERANCE= 0.120020E-04

2975 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2810 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2975 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 161.90 AND 162.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 162.000

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

FX = -297808.8
FY = -539751.7
FZ = 986961.7



Appendix FC-2 to Calculation PGE-009-CALC-003

MX = -0.2169951E+08
MY = 0.1925995E+08
MZ = 2905817.

SUMMATION POINT= 0.0000 -45.000 162.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2975 NODES (OF 17051 DEFINED) SELECTED FROM
2810 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = 102.0 LINE 8

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 102.10
KABS= 0. TOLERANCE= 0.114020E-04

2950 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2790 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2950 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 102.000

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

FX = -352360.9
FY = -542959.3
FZ = 1008112.
MX = 3083858.
MY = 0.1672616E+08
MZ = 4408049.

SUMMATION POINT= 0.0000 -45.000 102.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2950 NODES (OF 17051 DEFINED) SELECTED FROM
2790 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -102.0 LINE 7

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -101.90
KABS= 0. TOLERANCE= 0.936200E-05



Appendix FC-2 to Calculation PGE-009-CALC-003

```
2375  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2240  ELEMENTS (OF      15348  DEFINED) SELECTED FROM
2375  SELECTED NODES BY  ENOD  COMMAND.

RESELECT    FOR ITEM=LOC  COMPONENT=Z      BETWEEN -102.10      AND  -101.90
KABS=  0.  TOLERANCE= 0.200000E-08

25  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=      0
MOMENT SUMMATION LOCATION=  0.00000      -45.0000      -102.000

***** SUMMATION OF TOTAL      FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX  =  -382805.7
FY  =  -559467.4
FZ  =   835299.2
MX  =  -1285165.
MY  =   0.1201321E+08
MZ  =   6595451.

SUMMATION POINT=  0.0000      -45.000      -102.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2375  NODES (OF      17051  DEFINED) SELECTED FROM
2240  SELECTED ELEMENTS BY  NELE  COMMAND.

Internal forces at Z = -306.0 LINE 6

RESELECT    .  FOR ITEM=LOC  COMPONENT=Z      BETWEEN -1038.1      AND  -305.90
KABS=  0.  TOLERANCE= 0.732200E-05

1800  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1690  ELEMENTS (OF      15348  DEFINED) SELECTED FROM
1800  SELECTED NODES BY  ENOD  COMMAND.

RESELECT    FOR ITEM=LOC  COMPONENT=Z      BETWEEN -306.10      AND  -305.90
KABS=  0.  TOLERANCE= 0.200000E-08

25  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=      0
MOMENT SUMMATION LOCATION=  0.00000      -45.0000      -306.000

***** SUMMATION OF TOTAL      FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX  =  -366862.1
```



Appendix FC-2 to Calculation PGE-009-CALC-003

FY = -570591.9
FZ = 560206.8
MX = 578436.2
MY = 9014312.
MZ = 7528594.

SUMMATION POINT= 0.0000 -45.000 -306.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1800 NODES (OF 17051 DEFINED) SELECTED FROM
1690 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -510.0 LINE 5

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -509.90
KABS= 0. TOLERANCE= 0.528200E-05

1225 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1140 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1225 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -510.10 AND -509.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 -510.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = -363684.7
FY = -618683.8
FZ = 272231.4
MX = 8473042.
MY = 7707451.
MZ = 9774896.

SUMMATION POINT= 0.0000 -45.000 -510.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1225 NODES (OF 17051 DEFINED) SELECTED FROM
1140 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -714.0 LINE 4

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -713.90



Appendix FC-2 to Calculation PGE-009-CALC-003

KABS= 0. TOLERANCE= 0.324200E-05

650 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

590 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
650 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -714.10 AND -713.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 -714.000

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

FX = -351415.1
FY = -731522.5
FZ = -73224.44
MX = 0.3244085E+08
MY = 5077726.
MZ = 9766393.

SUMMATION POINT= 0.0000 -45.000 -714.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

650 NODES (OF 17051 DEFINED) SELECTED FROM
590 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -918.0 LINE 3

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -917.90
KABS= 0. TOLERANCE= 0.120200E-05

75 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

40 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
75 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -918.10 AND -917.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 -918.000



Appendix FC-2 to Calculation PGE-009-CALC-003

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = -208741.0
FY = -176349.2
FZ = -453476.1
MX = 0.1621582E+08
MY = -1158575.
MZ = 454255.0

SUMMATION POINT= 0.0000 -45.000 -918.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

75 NODES (OF 17051 DEFINED) SELECTED FROM
40 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -978.0 LINE 2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -977.90
KABS= 0. TOLERANCE= 0.602000E-06

50 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

20 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
50 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -978.10 AND -977.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 -978.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = -112942.5
FY = -87845.30
FZ = -534106.2
MX = 0.2446948E+08
MY = -954710.7
MZ = -1466162.

SUMMATION POINT= 0.0000 -45.000 -978.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

50 NODES (OF 17051 DEFINED) SELECTED FROM
20 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -1038.0 LINE 1



Appendix FC-2 to Calculation PGE-009-CALC-003

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -1037.9
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 -1038.00

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

FX = 112942.5
FY = 11345.30
FZ = 611371.2
MX = -0.2744520E+08
MY = 7731260.
MZ = 1466162.

SUMMATION POINT= 0.0000 -45.000 -1038.0
next strip x = 102 to 306 Lines B to C

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction

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

3000 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2830 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
3000 SELECTED NODES BY ENOD COMMAND.

Internal forces at Z = 222.0 LINE 10

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 221.90 AND 222.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 204.000 -45.0000 222.000

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

FX = -33137.57
FY = -431042.1
FZ = 985987.0
MX = -0.4421329E+08
MY = 626812.1
MZ = -1373122.

SUMMATION POINT= 204.00 -45.000 222.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

3000 NODES (OF 17051 DEFINED) SELECTED FROM
2830 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = 162.0 LINE 9

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 162.10
KABS= 0. TOLERANCE= 0.120020E-04

2975 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2810 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2975 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 161.90 AND 162.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 204.000 -45.0000 162.000

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

FX = -38990.61
FY = -472610.7
FZ = 833967.4
MX = -0.1674950E+08
MY = 930532.0
MZ = -853950.2

SUMMATION POINT= 204.00 -45.000 162.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2975 NODES (OF 17051 DEFINED) SELECTED FROM
2810 SELECTED ELEMENTS BY NELE COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

Internal forces at Z = 102.0 LINE 8

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 102.10
KABS= 0. TOLERANCE= 0.114020E-04

2950 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2790 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2950 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 204.000 -45.0000 102.000

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

FX = -63029.18
FY = -447536.5
FZ = 825041.2
MX = 7114932.
MY = 1376340.
MZ = -755212.6

SUMMATION POINT= 204.00 -45.000 102.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2950 NODES (OF 17051 DEFINED) SELECTED FROM
2790 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -102.0 LINE 7

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -101.90
KABS= 0. TOLERANCE= 0.936200E-05

2375 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2240 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2375 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08



Appendix FC-2 to Calculation PGE-009-CALC-003

```
25  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=      0
MOMENT SUMMATION LOCATION=  204.000      -45.0000      -102.000

***** SUMMATION OF TOTAL      FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX  =  -119543.2
FY  =  -445623.1
FZ  =   699439.8
MX  =   1605822.
MY  =   3454929.
MZ  =  -41155.57

SUMMATION POINT=  204.00      -45.000      -102.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2375 NODES (OF      17051  DEFINED) SELECTED FROM
2240 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -306.0 LINE 6

RESELECT      FOR ITEM=LOC  COMPONENT=Z      BETWEEN -1038.1      AND  -305.90
KABS=  0.  TOLERANCE= 0.732200E-05

1800  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1690 ELEMENTS (OF      15348  DEFINED) SELECTED FROM
1800 SELECTED NODES BY  ENOD  COMMAND.

RESELECT      FOR ITEM=LOC  COMPONENT=Z      BETWEEN -306.10      AND  -305.90
KABS=  0.  TOLERANCE= 0.200000E-08

25  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=      0
MOMENT SUMMATION LOCATION=  204.000      -45.0000      -306.000

***** SUMMATION OF TOTAL      FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX  =  -119054.4
FY  =  -451585.3
FZ  =   518744.1
MX  =   3672540.
MY  =   2864741.
MZ  =   326809.0

SUMMATION POINT=  204.00      -45.000      -306.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.
```



Appendix FC-2 to Calculation PGE-009-CALC-003

1800 NODES (OF 17051 DEFINED) SELECTED FROM
1690 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -510.0 LINE 5

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -509.90
KABS= 0. TOLERANCE= 0.528200E-05

1225 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1140 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1225 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -510.10 AND -509.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 204.000 -45.0000 -510.000

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

FX = -118332.6
FY = -482604.5
FZ = 302610.4
MX = 0.1228519E+08
MY = 2049227.
MZ = 784309.3

SUMMATION POINT= 204.00 -45.000 -510.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1225 NODES (OF 17051 DEFINED) SELECTED FROM
1140 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -714.0 LINE 4

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -713.90
KABS= 0. TOLERANCE= 0.324200E-05

650 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

590 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
650 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -714.10 AND -713.90



Appendix FC-2 to Calculation PGE-009-CALC-003

KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 204.000 -45.0000 -714.000

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

FX = -109275.8
FY = -618456.8
FZ = 30160.77
MX = 0.3371898E+08
MY = 1542025.
MZ = 402103.3

SUMMATION POINT= 204.00 -45.000 -714.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

650 NODES (OF 17051 DEFINED) SELECTED FROM
590 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -918.0 LINE 3

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -917.90
KABS= 0. TOLERANCE= 0.120200E-05

75 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

40 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
75 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -918.10 AND -917.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 204.000 -45.0000 -918.000

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

FX = -32653.79
FY = -129650.9
FZ = -335164.2
MX = 0.1482070E+08
MY = 1007255.
MZ = -820691.9

SUMMATION POINT= 204.00 -45.000 -918.00



Appendix FC-2 to Calculation PGE-009-CALC-003

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

75 NODES (OF 17051 DEFINED) SELECTED FROM
40 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -978.0 LINE 2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -977.90
KABS= 0. TOLERANCE= 0.602000E-06

50 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

20 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
50 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -978.10 AND -977.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 204.000 -45.0000 -978.000

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

FX = -9287.482
FY = -65154.71
FZ = -472725.4
MX = 0.2320179E+08
MY = 344938.0
MZ = -661944.7

SUMMATION POINT= 204.00 -45.000 -978.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

50 NODES (OF 17051 DEFINED) SELECTED FROM
20 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -1038.0 LINE 1

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -1037.9
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 204.000 -45.0000 -1038.00

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



Appendix FC-2 to Calculation PGE-009-CALC-003

FX = 9287.482
FY = -11345.29
FZ = 549990.4
MX = -0.2481607E+08
MY = 212310.9
MZ = 661944.7

SUMMATION POINT= 204.00 -45.000 -1038.0
next strip x = 306 to 510 Lines C to D

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction

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

3000 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2830 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
3000 SELECTED NODES BY ENOD COMMAND.

Internal forces at Z = 222.0 LINE 10

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 221.90 AND 222.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 222.000

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

FX = 33137.49
FY = -431042.0
FZ = 985987.0
MX = -0.4421329E+08
MY = -626815.2
MZ = 1373107.



Appendix FC-2 to Calculation PGE-009-CALC-003

SUMMATION POINT= 408.00 -45.000 222.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

3000 NODES (OF 17051 DEFINED) SELECTED FROM
2830 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = 162.0 LINE 9

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 162.10
KABS= 0. TOLERANCE= 0.120020E-04

2975 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2810 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2975 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 161.90 AND 162.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 162.000

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

FX = 38990.56
FY = -472610.7
FZ = 833967.4
MX = -0.1674950E+08
MY = -930533.4
MZ = 853948.2

SUMMATION POINT= 408.00 -45.000 162.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2975 NODES (OF 17051 DEFINED) SELECTED FROM
2810 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = 102.0 LINE 8

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 102.10
KABS= 0. TOLERANCE= 0.114020E-04

2950 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.



Appendix FC-2 to Calculation PGE-009-CALC-003

2790 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2950 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 102.000

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

FX = 63029.14
FY = -447536.5
FZ = 825041.4
MX = 7114930.
MY = -1376332.
MZ = 755216.2

SUMMATION POINT= 408.00 -45.000 102.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2950 NODES (OF 17051 DEFINED) SELECTED FROM
2790 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -102.0 LINE 7

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -101.90
KABS= 0. TOLERANCE= 0.936200E-05

2375 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2240 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2375 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 -102.000

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

FX = 119543.2
FY = -445623.0
FZ = 699439.8
MX = 1605822.



Appendix FC-2 to Calculation PGE-009-CALC-003

MY = -3454928.
MZ = 41155.95

SUMMATION POINT= 408.00 -45.000 -102.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2375 NODES (OF 17051 DEFINED) SELECTED FROM
2240 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -306.0 LINE 6

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -305.90
KABS= 0. TOLERANCE= 0.732200E-05

1800 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1690 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1800 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -306.10 AND -305.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 -306.000

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

FX = 119054.3
FY = -451585.2
FZ = 518744.1
MX = 3672542.
MY = -2864741.
MZ = -326809.0

SUMMATION POINT= 408.00 -45.000 -306.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1800 NODES (OF 17051 DEFINED) SELECTED FROM
1690 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -510.0 LINE 5

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -509.90
KABS= 0. TOLERANCE= 0.528200E-05

1225 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1140 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1225 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -510.10 AND -509.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 -510.000

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

FX = 118332.5
FY = -482604.4
FZ = 302610.4
MX = 0.1228519E+08
MY = -2049224.
MZ = -784311.9

SUMMATION POINT= 408.00 -45.000 -510.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1225 NODES (OF 17051 DEFINED) SELECTED FROM
1140 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -714.0 LINE 4

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -713.90
KABS= 0. TOLERANCE= 0.324200E-05

650 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

590 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
650 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -714.10 AND -713.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 -714.000

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

FX = 109275.7
FY = -618456.6



Appendix FC-2 to Calculation PGE-009-CALC-003

FZ = 30160.84
MX = 0.3371899E+08
MY = -1542015.
MZ = -402125.0

SUMMATION POINT= 408.00 -45.000 -714.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

650 NODES (OF 17051 DEFINED) SELECTED FROM
590 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -918.0 LINE 3

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -917.90
KABS= 0. TOLERANCE= 0.120200E-05

75 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

40 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
75 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -918.10 AND -917.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 -918.000

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

FX = 32653.75
FY = -129650.8
FZ = -335164.3
MX = 0.1482070E+08
MY = -1007255.
MZ = 820683.8

SUMMATION POINT= 408.00 -45.000 -918.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

75 NODES (OF 17051 DEFINED) SELECTED FROM
40 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -978.0 LINE 2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -977.90
KABS= 0. TOLERANCE= 0.602000E-06



Appendix FC-2 to Calculation PGE-009-CALC-003

```
50  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

20  ELEMENTS (OF      15348  DEFINED) SELECTED FROM
50  SELECTED NODES BY  ENOD  COMMAND.

RESELECT    FOR ITEM=LOC  COMPONENT=Z      BETWEEN -978.10      AND  -977.90
KABS=  0.  TOLERANCE= 0.200000E-08

25  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=          0
MOMENT SUMMATION LOCATION=  408.000      -45.0000      -978.000

***** SUMMATION OF TOTAL      FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX  =   9287.416
FY  =  -65154.68
FZ  =  -472725.5
MX  =  0.2320179E+08
MY  =  -344934.5
MZ  =   661938.6

SUMMATION POINT=  408.00      -45.000      -978.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

50  NODES (OF      17051  DEFINED) SELECTED FROM
20  SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -1038.0 LINE 1

RESELECT    FOR ITEM=LOC  COMPONENT=Z      BETWEEN -1038.1      AND  -1037.9
KABS=  0.  TOLERANCE= 0.200000E-08

25  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=          0
MOMENT SUMMATION LOCATION=  408.000      -45.0000      -1038.00

***** SUMMATION OF TOTAL      FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX  =  -9287.416
FY  =  -11345.32
FZ  =   549990.5
MX  = -0.2481607E+08
MY  =  -212310.4
MZ  =  -661938.6

SUMMATION POINT=  408.00      -45.000      -1038.0
next strip x = 510 to 714 Lines D to E
```



Appendix FC-2 to Calculation PGE-009-CALC-003

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 714.10
KABS= 0. TOLERANCE= 0.204200E-05

3000 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2830 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
3000 SELECTED NODES BY ENOD COMMAND.

Internal forces at Z = 222.0 LINE 10

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 221.90 AND 222.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 222.000

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

FX = 253146.9
FY = -486235.5
FZ = 1056226.
MX = -0.4768628E+08
MY = -0.1393206E+08
MZ = -582828.3

SUMMATION POINT= 612.00 -45.000 222.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

3000 NODES (OF 17051 DEFINED) SELECTED FROM
2830 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = 162.0 LINE 9



Appendix FC-2 to Calculation PGE-009-CALC-003

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 162.10
KABS= 0. TOLERANCE= 0.120020E-04

2975 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2810 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2975 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 161.90 AND 162.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 162.000

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

FX = 297808.7
FY = -539751.7
FZ = 986961.7
MX = -0.2169951E+08
MY = -0.1925995E+08
MZ = -2905817.

SUMMATION POINT= 612.00 -45.000 162.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2975 NODES (OF 17051 DEFINED) SELECTED FROM
2810 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = 102.0 LINE 8

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 102.10
KABS= 0. TOLERANCE= 0.114020E-04

2950 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2790 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2950 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0



Appendix FC-2 to Calculation PGE-009-CALC-003

MOMENT SUMMATION LOCATION= 612.000 -45.0000 102.000

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

FX = 352360.8
FY = -542959.3
FZ = 1008112.
MX = 3083859.
MY = -0.1672615E+08
MZ = -4408047.

SUMMATION POINT= 612.00 -45.000 102.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2950 NODES (OF 17051 DEFINED) SELECTED FROM
2790 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -102.0 LINE 7

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -101.90
KABS= 0. TOLERANCE= 0.936200E-05

2375 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2240 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2375 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 -102.000

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

FX = 382805.6
FY = -559467.4
FZ = 835299.2
MX = -1285164.
MY = -0.1201320E+08
MZ = -6595449.

SUMMATION POINT= 612.00 -45.000 -102.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2375 NODES (OF 17051 DEFINED) SELECTED FROM
2240 SELECTED ELEMENTS BY NELE COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

Internal forces at Z = -306.0 LINE 6

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -305.90
KABS= 0. TOLERANCE= 0.732200E-05

1800 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1690 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1800 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -306.10 AND -305.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 -306.000

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

FX = 366861.9
FY = -570591.8
FZ = 560206.8
MX = 578436.5
MY = -9014309.
MZ = -7528593.

SUMMATION POINT= 612.00 -45.000 -306.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1800 NODES (OF 17051 DEFINED) SELECTED FROM
1690 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -510.0 LINE 5

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -509.90
KABS= 0. TOLERANCE= 0.528200E-05

1225 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1140 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1225 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -510.10 AND -509.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 -510.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 363684.6
FY = -618683.8
FZ = 272231.3
MX = 8473041.
MY = -7707448.
MZ = -9774894.

SUMMATION POINT= 612.00 -45.000 -510.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1225 NODES (OF 17051 DEFINED) SELECTED FROM
1140 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -714.0 LINE 4

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -713.90
KABS= 0. TOLERANCE= 0.324200E-05

650 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

590 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
650 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -714.10 AND -713.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 -714.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 351415.0
FY = -731522.4
FZ = -73224.50
MX = 0.3244085E+08
MY = -5077722.
MZ = -9766394.

SUMMATION POINT= 612.00 -45.000 -714.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

650 NODES (OF 17051 DEFINED) SELECTED FROM



Appendix FC-2 to Calculation PGE-009-CALC-003

590 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -918.0 LINE 3

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -917.90
KABS= 0. TOLERANCE= 0.120200E-05

75 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

40 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
75 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -918.10 AND -917.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 -918.000

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

FX = 208740.9
FY = -176349.2
FZ = -453476.2
MX = 0.1621582E+08
MY = 1158578.
MZ = -454257.1

SUMMATION POINT= 612.00 -45.000 -918.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

75 NODES (OF 17051 DEFINED) SELECTED FROM
40 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -978.0 LINE 2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -977.90
KABS= 0. TOLERANCE= 0.602000E-06

50 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

20 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
50 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -978.10 AND -977.90
KABS= 0. TOLERANCE= 0.200000E-08



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25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 -978.000

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

FX = 112942.4
FY = -87845.31
FZ = -534106.2
MX = 0.2446948E+08
MY = 954713.7
MZ = 1466159.

SUMMATION POINT= 612.00 -45.000 -978.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

50 NODES (OF 17051 DEFINED) SELECTED FROM
20 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -1038.0 LINE 1

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -1037.9
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 -1038.00

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

FX = -112942.4
FY = 11345.31
FZ = 611371.2
MX = -0.2744520E+08
MY = -7731259.
MZ = -1466159.

SUMMATION POINT= 612.00 -45.000 -1038.0

SECTION THE PAD IN TO 7 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = -1038 to -918 Lines 1 to 3

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -917.90
KABS= 0. TOLERANCE= 0.120200E-05

255 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

160 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
255 SELECTED NODES BY ENOD COMMAND.

Internal forces at x = 714.0 LINE E

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 713.90 AND 714.10
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 714.000 -45.0000 -978.000

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

FX = 61469.74
FY = -53935.16
FZ = 268712.1
MX = -0.1027440E+08
MY = 4759255.
MZ = 1479827.

SUMMATION POINT= 714.00 -45.000 -978.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

255 NODES (OF 17051 DEFINED) SELECTED FROM
160 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 510.0 LINE D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 510.10
KABS= 0. TOLERANCE= 0.612200E-05

195 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.



Appendix FC-2 to Calculation PGE-009-CALC-003

120 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
195 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 510.10
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 510.000 -45.0000 -978.000

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

FX = 263271.5
FY = -31073.88
FZ = 40409.07
MX = -1374916.
MY = -1527869.
MZ = -3930867.

SUMMATION POINT= 510.00 -45.000 -978.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

195 NODES (OF 17051 DEFINED) SELECTED FROM
120 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 306.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 306.10
KABS= 0. TOLERANCE= 0.408200E-05

135 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

80 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
135 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 306.10
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 306.000 -45.0000 -978.000

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

FX = 305451.5
FY = -4713.100
FZ = 15686.93
MX = -199994.9



Appendix FC-2 to Calculation PGE-009-CALC-003

MY = -1925405.
MZ = -5842361.

SUMMATION POINT= 306.00 -45.000 -978.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

135 NODES (OF 17051 DEFINED) SELECTED FROM
80 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 102.0 LINE B

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10
KABS= 0. TOLERANCE= 0.204200E-05

75 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

40 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
75 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 102.000 -45.0000 -978.000

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

FX = 236397.2
FY = 22683.70
FZ = -15222.60
MX = 1335799.
MY = -3123415.
MZ = -4315664.

SUMMATION POINT= 102.00 -45.000 -978.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

75 NODES (OF 17051 DEFINED) SELECTED FROM
40 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = -102.0 LINE A

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.



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Appendix FC-2 to Calculation PGE-009-CALC-003

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= -102.000 -45.0000 -978.000

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

FX = -61469.71
FY = -53935.17
FZ = 268712.1
MX = -0.1027440E+08
MY = -4759257.
MZ = -1479825.

SUMMATION POINT= -102.00 -45.000 -978.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

75 NODES (OF 17051 DEFINED) SELECTED FROM
40 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = -918 to -714 Lines 3 to 4

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = -918 to -714

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -918.10 AND -713.90
KABS= 0. TOLERANCE= 0.204200E-05

2310 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2200 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2310 SELECTED NODES BY ENOD COMMAND.

Internal forces at x = 714.0 LINE E

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 713.90 AND 714.10
KABS= 0. TOLERANCE= 0.200000E-08



Appendix FC-2 to Calculation PGE-009-CALC-003

```
30  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=      0
MOMENT SUMMATION LOCATION=  714.000      -45.0000      -816.000

***** SUMMATION OF TOTAL      FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX  =   66497.41
FY  =  -105791.6
FZ  =   494736.2
MX  =   4356187.
MY  =   0.1438446E+08
MZ  =   2203763.

SUMMATION POINT=  714.00      -45.000      -816.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2310 NODES (OF      17051  DEFINED) SELECTED FROM
2200 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 510.0 LINE D

RESELECT      FOR ITEM=LOC  COMPONENT=X      BETWEEN -102.10      AND      510.10
KABS=  0.  TOLERANCE= 0.612200E-05

1740  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1650 ELEMENTS (OF      15348  DEFINED) SELECTED FROM
1740 SELECTED NODES BY  ENOD  COMMAND.

RESELECT      FOR ITEM=LOC  COMPONENT=X      BETWEEN  509.90      AND      510.10
KABS=  0.  TOLERANCE= 0.200000E-08

30  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=      0
MOMENT SUMMATION LOCATION=  510.000      -45.0000      -816.000

***** SUMMATION OF TOTAL      FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX  =   223674.5
FY  =  -80731.12
FZ  =   229675.8
MX  =   8013731.
MY  =   3033345.
MZ  =  -8175712.

SUMMATION POINT=  510.00      -45.000      -816.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.
```



Appendix FC-2 to Calculation PGE-009-CALC-003

1740 NODES (OF 17051 DEFINED) SELECTED FROM
1650 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 306.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 306.10
KABS= 0. TOLERANCE= 0.408200E-05

1170 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1100 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1170 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 306.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 306.000 -45.0000 -816.000

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

FX = 295065.1
FY = -54022.29
FZ = 52268.56
MX = 8135497.
MY = -2423764.
MZ = -0.1047316E+08

SUMMATION POINT= 306.00 -45.000 -816.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1170 NODES (OF 17051 DEFINED) SELECTED FROM
1100 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 102.0 LINE B

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10
KABS= 0. TOLERANCE= 0.204200E-05

600 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

550 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
600 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 101.90 AND 102.10



Appendix FC-2 to Calculation PGE-009-CALC-003

KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 102.000 -45.0000 -816.000

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

FX = 196790.9
FY = -27669.08
FZ = -133255.6
MX = 7965953.
MY = -5325001.
MZ = -7411986.

SUMMATION POINT= 102.00 -45.000 -816.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = -102.0 LINE A

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= -102.000 -45.0000 -816.000

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

FX = -66497.36
FY = -105791.6
FZ = 494736.4
MX = 4356184.
MY = -0.1438446E+08
MZ = -2203761.

SUMMATION POINT= -102.00 -45.000 -816.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = -714 to -510 Lines 4 to 5

Select all nodes in pad only



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ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = -714 to -510

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -714.10 AND -509.90
KABS= 0. TOLERANCE= 0.204200E-05

2310 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2200 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2310 SELECTED NODES BY ENOD COMMAND.

Internal forces at x = 714.0 LINE E

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 713.90 AND 714.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 714.000 -45.0000 -612.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 157384.4
FY = -188759.8
FZ = 550799.6
MX = 3604530.
MY = 0.1620480E+08
MZ = 7237244.

SUMMATION POINT= 714.00 -45.000 -612.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2310 NODES (OF 17051 DEFINED) SELECTED FROM
2200 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 510.0 LINE D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 510.10



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```
KABS= 0. TOLERANCE= 0.612200E-05

1740 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1650 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1740 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 510.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 510.000 -45.0000 -612.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 223752.4
FY = -42667.77
FZ = 279789.0
MX = 8116932.
MY = 7332847.
MZ = -7470332.

SUMMATION POINT= 510.00 -45.000 -612.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1740 NODES (OF 17051 DEFINED) SELECTED FROM
1650 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 306.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 306.10
KABS= 0. TOLERANCE= 0.408200E-05

1170 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1100 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1170 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 306.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 306.000 -45.0000 -612.000
```



Appendix FC-2 to Calculation PGE-009-CALC-003

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 254516.5
FY = -16079.83
FZ = 44084.01
MX = 6857420.
MY = 1042512.
MZ = -8602926.

SUMMATION POINT= 306.00 -45.000 -612.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1170 NODES (OF 17051 DEFINED) SELECTED FROM
1100 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 102.0 LINE B

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10
KABS= 0. TOLERANCE= 0.204200E-05

600 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

550 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
600 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 102.000 -45.0000 -612.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 222270.8
FY = 16174.45
FZ = -180875.6
MX = 5354020.
MY = -4423689.
MZ = -7459102.

SUMMATION POINT= 102.00 -45.000 -612.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = -102.0 LINE A



Appendix FC-2 to Calculation PGE-009-CALC-003

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= -102.000 -45.0000 -612.000

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

FX = -157384.3
FY = -188759.8
FZ = 550799.8
MX = 3604528.
MY = -0.1620480E+08
MZ = -7237241.

SUMMATION POINT= -102.00 -45.000 -612.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = -510 to -306 Lines 5 to 6

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = -510 to -306

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

2310 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2200 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2310 SELECTED NODES BY ENOD COMMAND.

Internal forces at x = 714.0 LINE E



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RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 713.90 AND 714.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 714.000 -45.0000 -408.000

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

FX = 180746.8
FY = -200499.6
FZ = 560925.5
MX = 675226.3
MY = 0.1567912E+08
MZ = 8225293.

SUMMATION POINT= 714.00 -45.000 -408.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2310 NODES (OF 17051 DEFINED) SELECTED FROM
2200 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 510.0 LINE D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 510.10
KABS= 0. TOLERANCE= 0.612200E-05

1740 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1650 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1740 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 510.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 510.000 -45.0000 -408.000

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

FX = 251432.7
FY = -47745.56
FZ = 276441.6
MX = 7178354.
MY = 7513231.
MZ = -6918573.



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SUMMATION POINT= 510.00 -45.000 -408.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1740 NODES (OF 17051 DEFINED) SELECTED FROM
1650 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 306.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 306.10
KABS= 0. TOLERANCE= 0.408200E-05

1170 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1100 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1170 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 306.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 306.000 -45.0000 -408.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 279519.0
FY = -18916.04
FZ = 40107.55
MX = 6541304.
MY = 1638915.
MZ = -7775565.

SUMMATION POINT= 306.00 -45.000 -408.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1170 NODES (OF 17051 DEFINED) SELECTED FROM
1100 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 102.0 LINE B

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10
KABS= 0. TOLERANCE= 0.204200E-05

600 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.



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Appendix FC-2 to Calculation PGE-009-CALC-003

550 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
600 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 102.000 -45.0000 -408.000

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

FX = 247476.6
FY = 16607.88
FZ = -184147.9
MX = 6030851.
MY = -4395331.
MZ = -7263537.

SUMMATION POINT= 102.00 -45.000 -408.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = -102.0 LINE A

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= -102.000 -45.0000 -408.000

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

FX = -180746.8
FY = -200499.7
FZ = 560925.7
MX = 675224.0
MY = -0.1567913E+08
MZ = -8225291.

SUMMATION POINT= -102.00 -45.000 -408.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.



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next strip z = -306 to -102 Lines 6 to 7

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = -306 to -102

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

2310 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2200 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2310 SELECTED NODES BY ENOD COMMAND.

Internal forces at x = 714.0 LINE E

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 713.90 AND 714.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 714.000 -45.0000 -204.000

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

FX = 179326.7
FY = -194483.4
FZ = 568619.1
MX = 177637.6
MY = 0.1570558E+08
MZ = 8053041.

SUMMATION POINT= 714.00 -45.000 -204.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2310 NODES (OF 17051 DEFINED) SELECTED FROM
2200 SELECTED ELEMENTS BY NELE COMMAND.



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Internal forces at x = 510.0 LINE D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 510.10
KABS= 0. TOLERANCE= 0.612200E-05

1740 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1650 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1740 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 510.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 510.000 -45.0000 -204.000

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

FX = 258655.4
FY = -49632.22
FZ = 279881.9
MX = 6518585.
MY = 7031269.
MZ = -6768546.

SUMMATION POINT= 510.00 -45.000 -204.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1740 NODES (OF 17051 DEFINED) SELECTED FROM
1650 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 306.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 306.10
KABS= 0. TOLERANCE= 0.408200E-05

1170 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1100 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1170 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 306.10
KABS= 0. TOLERANCE= 0.200000E-08



Appendix FC-2 to Calculation PGE-009-CALC-003

```
30  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=      0
MOMENT SUMMATION LOCATION=  306.000      -45.0000      -204.000

***** SUMMATION OF TOTAL      FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX  =   282881.6
FY  =  -22294.89
FZ  =   37843.37
MX  =   6593274.
MY  =   539696.5
MZ  =  -7551101.

SUMMATION POINT=  306.00      -45.000      -204.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1170 NODES (OF      17051  DEFINED) SELECTED FROM
1100 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 102.0 LINE B

RESELECT      FOR ITEM=LOC  COMPONENT=X      BETWEEN -102.10      AND      102.10
KABS=  0.  TOLERANCE= 0.204200E-05

600  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

550 ELEMENTS (OF      15348  DEFINED) SELECTED FROM
600 SELECTED NODES BY  ENOD COMMAND.

RESELECT      FOR ITEM=LOC  COMPONENT=X      BETWEEN  101.90      AND      102.10
KABS=  0.  TOLERANCE= 0.200000E-08

30  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=      0
MOMENT SUMMATION LOCATION=  102.000      -45.0000      -204.000

***** SUMMATION OF TOTAL      FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX  =   253831.1
FY  =   11517.14
FZ  =  -195143.4
MX  =   6713305.
MY  =  -5029196.
MZ  =  -7080056.

SUMMATION POINT=  102.00      -45.000      -204.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.
```



Appendix FC-2 to Calculation PGE-009-CALC-003

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = -102.0 LINE A

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= -102.000 -45.0000 -204.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = -179326.7
FY = -194483.5
FZ = 568619.3
MX = 177634.4
MY = -0.1570558E+08
MZ = -8053039.

SUMMATION POINT= -102.00 -45.000 -204.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = -102 to 102 Lines 7 to 8

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = -102 to 102

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -102.10 AND 102.10
KABS= 0. TOLERANCE= 0.204200E-05

2310 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.



Appendix FC-2 to Calculation PGE-009-CALC-003

2200 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2310 SELECTED NODES BY ENOD COMMAND.

Internal forces at x = 714.0 LINE E

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 713.90 AND 714.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 714.000 -45.0000 0.00000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 177178.6
FY = -206538.7
FZ = 584900.8
MX = 610346.3
MY = 0.1631616E+08
MZ = 7948888.

SUMMATION POINT= 714.00 -45.000 0.0000

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2310 NODES (OF 17051 DEFINED) SELECTED FROM
2200 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 510.0 LINE D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 510.10
KABS= 0. TOLERANCE= 0.612200E-05

1740 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

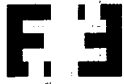
1650 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1740 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 510.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 510.000 -45.0000 0.00000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 162569.5



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Appendix FC-2 to Calculation PGE-009-CALC-003

FY = -57093.12
FZ = 227227.5
MX = 6826417.
MY = 1913367.
MZ = -6537787.

SUMMATION POINT= 510.00 -45.000 0.0000

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1740 NODES (OF 17051 DEFINED) SELECTED FROM
1650 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 306.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 306.10
KABS= 0. TOLERANCE= 0.408200E-05

1170 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1100 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1170 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 306.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 306.000 -45.0000 0.00000

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

FX = 137721.6
FY = -32616.06
FZ = 36837.69
MX = 7872298.
MY = -4068969.
MZ = -6937079.

SUMMATION POINT= 306.00 -45.000 0.0000

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1170 NODES (OF 17051 DEFINED) SELECTED FROM
1100 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 102.0 LINE B

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10



Appendix FC-2 to Calculation PGE-009-CALC-003

```
KABS= 0.  TOLERANCE= 0.204200E-05

600  NODES (OF 17051  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

550  ELEMENTS (OF 15348  DEFINED) SELECTED FROM
600  SELECTED NODES BY  ENOD  COMMAND.

RESELECT    FOR ITEM=LOC  COMPONENT=X      BETWEEN 101.90      AND 102.10
KABS= 0.  TOLERANCE= 0.200000E-08

30  NODES (OF 17051  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 102.000      -45.0000      0.00000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX  = 191752.1
FY  = 1710.769
FZ  = -173146.4
MX  = 8864090.
MY  = -7140700.
MZ  = -6856856.

SUMMATION POINT= 102.00      -45.000      0.0000

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600  NODES (OF 17051  DEFINED) SELECTED FROM
550  SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = -102.0 LINE A

RESELECT    FOR ITEM=LOC  COMPONENT=X      BETWEEN -102.10      AND -101.90
KABS= 0.  TOLERANCE= 0.200000E-08

30  NODES (OF 17051  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= -102.000      -45.0000      0.00000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX  = -177178.6
FY  = -206538.8
FZ  = 584901.0
MX  = 610342.7
MY  = -0.1631616E+08
MZ  = -7948887.

SUMMATION POINT= -102.00      -45.000      0.0000
```



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Appendix FC-2 to Calculation PGE-009-CALC-003

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 222 Lines 8 to 10

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 222

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 222.10
KABS= 0. TOLERANCE= 0.120200E-05

255 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

160 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
255 SELECTED NODES BY ENOD COMMAND.

Internal forces at x = 714.0 LINE E

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 713.90 AND 714.10
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 714.000 -45.0000 162.000

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

FX = 91306.66
FY = -106570.9
FZ = 429069.6
MX = -0.1171784E+08
MY = 9207321.
MZ = 5977910.

SUMMATION POINT= 714.00 -45.000 162.00



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SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

255 NODES (OF 17051 DEFINED) SELECTED FROM
160 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 510.0 LINE D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 510.10
KABS= 0. TOLERANCE= 0.612200E-05

195 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

120 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
195 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 510.10
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 510.000 -45.0000 162.000

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

FX = -92216.04
FY = -37062.22
FZ = 57472.94
MX = -1044713.
MY = -790136.2
MZ = -818050.9

SUMMATION POINT= 510.00 -45.000 162.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

195 NODES (OF 17051 DEFINED) SELECTED FROM
120 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 306.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 306.10
KABS= 0. TOLERANCE= 0.408200E-05

135 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

80 ELEMENTS (OF 15348 DEFINED) SELECTED FROM



Appendix FC-2 to Calculation PGE-009-CALC-003

135 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 306.10
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 306.000 -45.0000 162.000

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

FX = -105502.8
FY = -27843.01
FZ = 14168.28
MX = -221381.0
MY = -1458224.
MZ = -959504.0

SUMMATION POINT= 306.00 -45.000 162.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

135 NODES (OF 17051 DEFINED) SELECTED FROM
80 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 102.0 LINE B

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10
KABS= 0. TOLERANCE= 0.204200E-05

75 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

40 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
75 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 102.000 -45.0000 162.000

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

FX = -74858.99
FY = -11481.10
FZ = -41917.24
MX = 1010098.
MY = -3644968.
MZ = -1019294.



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SUMMATION POINT= 102.00 -45.000 162.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

75 NODES (OF 17051 DEFINED) SELECTED FROM
40 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = -102.0 LINE A

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= -102.000 -45.0000 162.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = -91306.68
FY = -106570.9
FZ = 429069.8
MX = -0.1171784E+08
MY = -9207326.
MZ = -5977912.

SUMMATION POINT= -102.00 -45.000 162.00

15348 ELEMENTS (OF 15348 DEFINED) SELECTED BY EALL COMMAND.

17051 NODES (OF 17051 DEFINED) SELECTED BY NALL COMMAND.

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

USE LOAD STEP 2 SUBSTEP 0 FOR LOAD CASE 0

SET COMMAND GOT LOAD STEP= 2 SUBSTEP= 1 CUMULATIVE ITERATION= 22
TIME/FREQUENCY= 2.0000
TITLE= Pad, HE(1), 20 Casks, 515 Kip N 45 W (Z,X), Soft Rock (Nu = 0.23)

SECTION THE PAD IN TO 4 NORTH-SOUTH Z-DIRECTION STRIPS

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.



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Appendix FC-2 to Calculation PGE-009-CALC-003

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = -102 to 102 Lines A to B

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10
KABS= 0. TOLERANCE= 0.204200E-05

3000 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2830 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
3000 SELECTED NODES BY ENOD COMMAND.

Internal forces at Z = 222.0 LINE 10

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 221.90 AND 222.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 222.000

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

FX = 252769.1
FY = -330835.9
FZ = 703426.2
MX = -0.2952758E+08
MY = -4211522.
MZ = 512829.6

SUMMATION POINT= 0.0000 -45.000 222.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

3000 NODES (OF 17051 DEFINED) SELECTED FROM
2830 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = 162.0 LINE 9

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 162.10
KABS= 0. TOLERANCE= 0.120020E-04

2975 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.



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2810 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2975 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 161.90 AND 162.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 162.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 102518.5
FY = -367062.6
FZ = 750679.2
MX = -0.1144771E+08
MY = 6554547.
MZ = -8617628.

SUMMATION POINT= 0.0000 -45.000 162.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2975 NODES (OF 17051 DEFINED) SELECTED FROM
2810 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = 102.0 LINE 8

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 102.10
KABS= 0. TOLERANCE= 0.114020E-04

2950 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2790 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2950 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 102.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 72261.71
FY = -349440.3
FZ = 858692.4
MX = 5772851.
MY = 9354459.



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MZ = -0.1409877E+08

SUMMATION POINT= 0.0000 -45.000 102.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2950 NODES (OF 17051 DEFINED) SELECTED FROM
2790 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -102.0 LINE 7

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -101.90
KABS= 0. TOLERANCE= 0.936200E-05

2375 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2240 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2375 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 -102.000

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

FX = -61055.03
FY = -401284.9
FZ = 954724.4
MX = 3150395.
MY = 9293127.
MZ = -6645137.

SUMMATION POINT= 0.0000 -45.000 -102.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2375 NODES (OF 17051 DEFINED) SELECTED FROM
2240 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -306.0 LINE 6

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -305.90
KABS= 0. TOLERANCE= 0.732200E-05

1800 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.



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SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1690 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1800 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -306.10 AND -305.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 -306.000

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

FX = -143128.3
FY = -435617.2
FZ = 869789.3
MX = 7612994.
MY = 9842529.
MZ = -5142224.

SUMMATION POINT= 0.0000 -45.000 -306.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1800 NODES (OF 17051 DEFINED) SELECTED FROM
1690 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -510.0 LINE 5

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -509.90
KABS= 0. TOLERANCE= 0.528200E-05

1225 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1140 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1225 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -510.10 AND -509.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 -510.000

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

FX = -219683.1
FY = -463181.1
FZ = 667058.3



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MX = 0.1822035E+08
MY = 0.1095932E+08
MZ = -9355444.

SUMMATION POINT= 0.0000 -45.000 -510.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1225 NODES (OF 17051 DEFINED) SELECTED FROM
1140 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -714.0 LINE 4

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -713.90
KABS= 0. TOLERANCE= 0.324200E-05

650 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

590 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
650 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -714.10 AND -713.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 -714.000

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

FX = -288088.3
FY = -371584.8
FZ = 315841.2
MX = 0.2806182E+08
MY = 0.1037884E+08
MZ = -0.1164925E+08

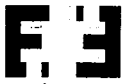
SUMMATION POINT= 0.0000 -45.000 -714.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

650 NODES (OF 17051 DEFINED) SELECTED FROM
590 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -918.0 LINE 3

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -917.90
KABS= 0. TOLERANCE= 0.120200E-05



Appendix FC-2 to Calculation PGE-009-CALC-003

```
75  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

40  ELEMENTS (OF      15348  DEFINED) SELECTED FROM
75  SELECTED NODES BY  ENOD  COMMAND.

RESELECT    FOR ITEM=LOC  COMPONENT=Z      BETWEEN -918.10      AND  -917.90
KABS=  0.  TOLERANCE= 0.200000E-08

25  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=          0
MOMENT SUMMATION LOCATION=  0.00000      -45.0000      -918.000

***** SUMMATION OF TOTAL      FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX  =  -327123.1
FY  =  -137375.8
FZ  =  -222451.5
MX  =  0.1033358E+08
MY  =   8315253.
MZ  =  -919212.1

SUMMATION POINT=  0.0000      -45.000      -918.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

75  NODES (OF      17051  DEFINED) SELECTED FROM
40  SELECTED ELEMENTS BY  NELE  COMMAND.

Internal forces at Z = -978.0 LINE 2

RESELECT    .  FOR ITEM=LOC  COMPONENT=Z      BETWEEN -1038.1      AND  -977.90
KABS=  0.  TOLERANCE= 0.602000E-06

50  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

20  ELEMENTS (OF      15348  DEFINED) SELECTED FROM
50  SELECTED NODES BY  ENOD  COMMAND.

RESELECT    FOR ITEM=LOC  COMPONENT=Z      BETWEEN -978.10      AND  -977.90
KABS=  0.  TOLERANCE= 0.200000E-08

25  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=          0
MOMENT SUMMATION LOCATION=  0.00000      -45.0000      -978.000

***** SUMMATION OF TOTAL      FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX  =  -330322.1
```



Appendix FC-2 to Calculation PGE-009-CALC-003

FY = -61504.33
FZ = -361251.1
MX = 0.1808658E+08
MY = 8377679.
MZ = -9886822.

SUMMATION POINT= 0.0000 -45.000 -978.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

50 NODES (OF 17051 DEFINED) SELECTED FROM
20 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -1038.0 LINE 1

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -1037.9
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 -1038.00

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

FX = 384923.9
FY = -14995.67
FZ = 415853.0
MX = -0.1948184E+08
MY = 0.1307970E+08
MZ = 9886822.

SUMMATION POINT= 0.0000 -45.000 -1038.0
next strip x = 102 to 306 Lines B to C

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction

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



Appendix FC-2 to Calculation PGE-009-CALC-003

```
3000  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2830  ELEMENTS (OF      15348  DEFINED) SELECTED FROM
3000  SELECTED NODES BY  ENOD  COMMAND.

Internal forces at Z = 222.0 LINE 10

RESELECT      FOR ITEM=LOC  COMPONENT=Z      BETWEEN  221.90      AND      222.10
KABS=  0.  TOLERANCE=  0.200000E-08

25  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=      0
MOMENT SUMMATION LOCATION=  204.000      -45.0000      222.000

***** SUMMATION OF TOTAL      FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX  =   449147.1
FY  =  -359193.2
FZ  =   728407.1
MX  = -0.3280030E+08
MY  = -0.1345146E+08
MZ  =   4050332.

SUMMATION POINT=  204.00      -45.000      222.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

3000  NODES (OF      17051  DEFINED) SELECTED FROM
2830  SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = 162.0 LINE 9

RESELECT      FOR ITEM=LOC  COMPONENT=Z      BETWEEN -1038.1      AND      162.10
KABS=  0.  TOLERANCE=  0.120020E-04

2975  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2810  ELEMENTS (OF      15348  DEFINED) SELECTED FROM
2975  SELECTED NODES BY  ENOD  COMMAND.

RESELECT      FOR ITEM=LOC  COMPONENT=Z      BETWEEN  161.90      AND      162.10
KABS=  0.  TOLERANCE=  0.200000E-08

25  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=      0
MOMENT SUMMATION LOCATION=  204.000      -45.0000      162.000
```



Appendix FC-2 to Calculation PGE-009-CALC-003

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

FX = 415845.3
FY = -374972.2
FZ = 631256.8
MX = -0.1150287E+08
MY = -0.1219308E+08
MZ = -4845351.

SUMMATION POINT= 204.00 -45.000 162.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2975 NODES (OF 17051 DEFINED) SELECTED FROM
2810 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = 102.0 LINE 8

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 102.10
KABS= 0. TOLERANCE= 0.114020E-04

2950 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2790 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2950 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 204.000 -45.0000 102.000

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

FX = 440727.2
FY = -345614.4
FZ = 636279.1
MX = 6574364.
MY = -8685173.
MZ = -8308920.

SUMMATION POINT= 204.00 -45.000 102.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2950 NODES (OF 17051 DEFINED) SELECTED FROM
2790 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -102.0 LINE 7



Appendix FC-2 to Calculation PGE-009-CALC-003

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -101.90
KABS= 0. TOLERANCE= 0.936200E-05

2375 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2240 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2375 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 204.000 -45.0000 -102.000

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

FX = 242013.9
FY = -335497.1
FZ = 638841.3
MX = 3462385.
MY = -1725363.
MZ = -5361972.

SUMMATION POINT= 204.00 -45.000 -102.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2375 NODES (OF 17051 DEFINED) SELECTED FROM
2240 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -306.0 LINE 6

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -305.90
KABS= 0. TOLERANCE= 0.732200E-05

1800 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1690 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1800 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -306.10 AND -305.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.



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Appendix FC-2 to Calculation PGE-009-CALC-003

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 204.000 -45.0000 -306.000

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

FX = 71483.11
FY = -341400.4
FZ = 559140.2
MX = 5567088.
MY = 2914270.
MZ = -5006028.

SUMMATION POINT= 204.00 -45.000 -306.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1800 NODES (OF 17051 DEFINED) SELECTED FROM
1690 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -510.0 LINE 5

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -509.90
KABS= 0. TOLERANCE= 0.528200E-05

1225 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1140 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1225 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -510.10 AND -509.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 204.000 -45.0000 -510.000

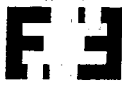
***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****

FX = -90016.80
FY = -363826.9
FZ = 405575.6
MX = 0.1233707E+08
MY = 5773086.
MZ = -6961289.

SUMMATION POINT= 204.00 -45.000 -510.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1225 NODES (OF 17051 DEFINED) SELECTED FROM
1140 SELECTED ELEMENTS BY NELE COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

Internal forces at Z = -714.0 LINE 4

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -713.90
KABS= 0. TOLERANCE= 0.324200E-05

650 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

590 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
650 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -714.10 AND -713.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 204.000 -45.0000 -714.000

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

FX = -262804.2
FY = -403144.6
FZ = 150893.2
MX = 0.2508847E+08
MY = 7545574.
MZ = -0.1240051E+08

SUMMATION POINT= 204.00 -45.000 -714.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

650 NODES (OF 17051 DEFINED) SELECTED FROM
590 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -918.0 LINE 3

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -917.90
KABS= 0. TOLERANCE= 0.120200E-05

75 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

40 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
75 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -918.10 AND -917.90
KABS= 0. TOLERANCE= 0.200000E-08



Appendix FC-2 to Calculation PGE-009-CALC-003

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 204.000 -45.0000 -918.000

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

FX = -340058.3
FY = -91826.34
FZ = -204274.4
MX = 0.1089276E+08
MY = 0.1146893E+08
MZ = -6584255.

SUMMATION POINT= 204.00 -45.000 -918.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

75 NODES (OF 17051 DEFINED) SELECTED FROM
40 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -978.0 LINE 2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -977.90
KABS= 0. TOLERANCE= 0.602000E-06

50 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

20 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
50 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -978.10 AND -977.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 204.000 -45.0000 -978.000

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

FX = -352507.9
FY = -48764.50
FZ = -324476.2
MX = 0.1670322E+08
MY = 0.1170194E+08
MZ = -0.1071258E+08

SUMMATION POINT= 204.00 -45.000 -978.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.



Appendix FC-2 to Calculation PGE-009-CALC-003

50 NODES (OF 17051 DEFINED) SELECTED FROM
20 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -1038.0 LINE 1

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -1037.9
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 204.000 -45.0000 -1038.00

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

FX = 407109.8
FY = -27735.50
FZ = 379078.1
MX = -0.1733409E+08
MY = 0.1108660E+08
MZ = 0.1071258E+08

SUMMATION POINT= 204.00 -45.000 -1038.0
next strip x = 306 to 510 Lines C to D

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction

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

3000 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2830 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
3000 SELECTED NODES BY ENOD COMMAND.

Internal forces at Z = 222.0 LINE 10



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Appendix FC-2 to Calculation PGE-009-CALC-003

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 221.90 AND 222.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 222.000

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

FX = 499558.4
FY = -349418.4
FZ = 753691.3
MX = -0.3387067E+08
MY = -0.1423997E+08
MZ = 6906147.

SUMMATION POINT= 408.00 -45.000 222.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

3000 NODES (OF 17051 DEFINED) SELECTED FROM
2830 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = 162.0 LINE 9

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 162.10
KABS= 0. TOLERANCE= 0.120020E-04

2975 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2810 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2975 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 161.90 AND 162.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 162.000

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

FX = 468042.6
FY = -371496.8
FZ = 637282.8
MX = -0.1235686E+08
MY = -0.1326573E+08
MZ = -2575251.

SUMMATION POINT= 408.00 -45.000 162.00



Appendix FC-2 to Calculation PGE-009-CALC-003

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2975 NODES (OF 17051 DEFINED) SELECTED FROM
2810 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = 102.0 LINE 8

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 102.10
KABS= 0. TOLERANCE= 0.114020E-04

2950 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2790 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2950 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 102.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 523307.7
FY = -345430.9
FZ = 619790.7
MX = 6038325.
MY = -0.1038503E+08
MZ = -6160163.

SUMMATION POINT= 408.00 -45.000 102.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2950 NODES (OF 17051 DEFINED) SELECTED FROM
2790 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -102.0 LINE 7

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -101.90
KABS= 0. TOLERANCE= 0.936200E-05

2375 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2240 ELEMENTS (OF 15348 DEFINED) SELECTED FROM



Appendix FC-2 to Calculation PGE-009-CALC-003

2375 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 -102.000

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

FX = 402813.4
FY = -324109.6
FZ = 489835.9
MX = 2902258.
MY = -6371748.
MZ = -4452629.

SUMMATION POINT= 408.00 -45.000 -102.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2375 NODES (OF 17051 DEFINED) SELECTED FROM
2240 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -306.0 LINE 6

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -305.90
KABS= 0. TOLERANCE= 0.732200E-05

1800 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1690 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1800 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -306.10 AND -305.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 -306.000

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

FX = 233452.1
FY = -325444.6
FZ = 319942.0
MX = 3668301.
MY = -997763.7
MZ = -4341204.



Appendix FC-2 to Calculation PGE-009-CALC-003

SUMMATION POINT= 408.00 -45.000 -306.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1800 NODES (OF 17051 DEFINED) SELECTED FROM
1690 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -510.0 LINE 5

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -509.90
KABS= 0. TOLERANCE= 0.528200E-05

1225 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1140 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1225 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -510.10 AND -509.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 -510.000

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

FX = 72890.84
FY = -334446.3
FZ = 162878.9
MX = 7875303.
MY = 3020258.
MZ = -5174564.

SUMMATION POINT= 408.00 -45.000 -510.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1225 NODES (OF 17051 DEFINED) SELECTED FROM
1140 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -714.0 LINE 4

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -713.90
KABS= 0. TOLERANCE= 0.324200E-05

650 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.



Appendix FC-2 to Calculation PGE-009-CALC-003

590 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
650 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -714.10 AND -713.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 -714.000

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

FX = -113445.6
FY = -336313.7
FZ = 9159.221
MX = 0.1719873E+08
MY = 5614826.
MZ = -7503937.

SUMMATION POINT= 408.00 -45.000 -714.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

650 NODES (OF 17051 DEFINED) SELECTED FROM
590 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -918.0 LINE 3

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -917.90
KABS= 0. TOLERANCE= 0.120200E-05

75 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

40 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
75 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -918.10 AND -917.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 -918.000

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

FX = -313683.6
FY = -119113.0
FZ = -228804.2
MX = 9577077.



Appendix FC-2 to Calculation PGE-009-CALC-003

MY = 0.1065409E+08
MZ = -4247259.

SUMMATION POINT= 408.00 -45.000 -918.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

75 NODES (OF 17051 DEFINED) SELECTED FROM
40 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -978.0 LINE 2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -977.90
KABS= 0. TOLERANCE= 0.602000E-06

50 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

20 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
50 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -978.10 AND -977.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 -978.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = -383072.3
FY = -59108.69
FZ = -331698.7
MX = 0.1637446E+08
MY = 0.1246841E+08
MZ = -0.1021930E+08

SUMMATION POINT= 408.00 -45.000 -978.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

50 NODES (OF 17051 DEFINED) SELECTED FROM
20 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -1038.0 LINE 1

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -1037.9
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 -1038.00

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 437674.2
FY = -17391.31
FZ = 386300.6
MX = -0.1762599E+08
MY = 0.1215399E+08
MZ = 0.1021930E+08

SUMMATION POINT= 408.00 -45.000 -1038.0
next strip x = 510 to 714 Lines D to E

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 714.10
KABS= 0. TOLERANCE= 0.204200E-05

3000 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2830 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
3000 SELECTED NODES BY ENOD COMMAND.

Internal forces at Z = 222.0 LINE 10

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 221.90 AND 222.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 222.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 629075.1



Appendix FC-2 to Calculation PGE-009-CALC-003

FY = -413790.8
FZ = 846336.1
MX = -0.4023518E+08
MY = -0.2357441E+08
MZ = 4385613.

SUMMATION POINT= 612.00 -45.000 222.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

3000 NODES (OF 17051 DEFINED) SELECTED FROM
2830 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = 162.0 LINE 9

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 162.10
KABS= 0. TOLERANCE= 0.120020E-04

2975 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2810 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2975 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 161.90 AND 162.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 162.000

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

FX = 521055.0
FY = -452707.3
FZ = 708109.7
MX = -0.1923640E+08
MY = -0.1998560E+08
MZ = -7470731.

SUMMATION POINT= 612.00 -45.000 162.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2975 NODES (OF 17051 DEFINED) SELECTED FROM
2810 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = 102.0 LINE 8

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 102.10



Appendix FC-2 to Calculation PGE-009-CALC-003

KABS= 0. TOLERANCE= 0.114020E-04

2950 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2790 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2950 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 102.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 563723.5
FY = -480910.4
FZ = 634252.3
MX = 1060752.
MY = -0.1411821E+08
MZ = -0.1515538E+08

SUMMATION POINT= 612.00 -45.000 102.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2950 NODES (OF 17051 DEFINED) SELECTED FROM
2790 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -102.0 LINE 7

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -101.90
KABS= 0. TOLERANCE= 0.936200E-05

2375 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2240 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2375 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 -102.000



Appendix FC-2 to Calculation PGE-009-CALC-003

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

FX = 469158.4
FY = -437674.9
FZ = 352313.0
MX = -981186.0
MY = -8242769.
MZ = -0.1117563E+08

SUMMATION POINT= 612.00 -45.000 -102.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2375 NODES (OF 17051 DEFINED) SELECTED FROM
2240 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -306.0 LINE 6

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -305.90
KABS= 0. TOLERANCE= 0.732200E-05

1800 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1690 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1800 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -306.10 AND -305.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 -306.000

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

FX = 363796.4
FY = -430162.1
FZ = 53847.71
MX = -965039.1
MY = -3674904.
MZ = -0.1047022E+08

SUMMATION POINT= 612.00 -45.000 -306.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1800 NODES (OF 17051 DEFINED) SELECTED FROM
1690 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -510.0 LINE 5



Appendix FC-2 to Calculation PGE-009-CALC-003

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -509.90
KABS= 0. TOLERANCE= 0.528200E-05

1225 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1140 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1225 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -510.10 AND -509.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 -510.000

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

FX = 273171.0
FY = -435761.1
FZ = -173128.8
MX = 1875447.
MY = -412515.6
MZ = -0.1106809E+08

SUMMATION POINT= 612.00 -45.000 -510.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1225 NODES (OF 17051 DEFINED) SELECTED FROM
1140 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -714.0 LINE 4

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -713.90
KABS= 0. TOLERANCE= 0.324200E-05

650 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

590 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
650 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -714.10 AND -713.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0



Appendix FC-2 to Calculation PGE-009-CALC-003

MOMENT SUMMATION LOCATION= 612.000 -45.0000 -714.000

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

FX = 175881.9
FY = -426325.4
FZ = -347784.2
MX = 9253623.
MY = 3839670.
MZ = -0.1313656E+08

SUMMATION POINT= 612.00 -45.000 -714.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

650 NODES (OF 17051 DEFINED) SELECTED FROM
590 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -918.0 LINE 3

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -917.90
KABS= 0. TOLERANCE= 0.120200E-05

75 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

40 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
75 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -918.10 AND -917.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 -918.000

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

FX = -46773.15
FY = -203238.9
FZ = -420061.5
MX = 4161648.
MY = 0.1241662E+08
MZ = -7201780.

SUMMATION POINT= 612.00 -45.000 -918.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

75 NODES (OF 17051 DEFINED) SELECTED FROM
40 SELECTED ELEMENTS BY NELE COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

Internal forces at Z = -978.0 LINE 2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -977.90
KABS= 0. TOLERANCE= 0.602000E-06

50 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

20 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
50 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -978.10 AND -977.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 -978.000

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

FX = -261077.1
FY = -136622.5
FZ = -397074.8
MX = 0.1313661E+08
MY = 0.1364522E+08
MZ = -0.1468244E+08

SUMMATION POINT= 612.00 -45.000 -978.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

50 NODES (OF 17051 DEFINED) SELECTED FROM
20 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -1038.0 LINE 1

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -1037.9
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 -1038.00

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

FX = 315679.0
FY = 60122.48
FZ = 451676.6
MX = -0.1903896E+08
MY = 3657465.



Appendix FC-2 to Calculation PGE-009-CALC-003

MZ = 0.1468244E+08

SUMMATION POINT= 612.00 -45.000 -1038.0

SECTION THE PAD IN TO 7 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = -1038 to -918 Lines 1 to 3

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -917.90
KABS= 0. TOLERANCE= 0.120200E-05

255 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

160 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
255 SELECTED NODES BY ENOD COMMAND.

Internal forces at x = 714.0 LINE E

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 713.90 AND 714.10
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 714.000 -45.0000 -978.000

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

FX = 398864.3
FY = -130029.5
FZ = 70067.23
MX = -2390054.
MY = 279591.5
MZ = 0.1684882E+08

SUMMATION POINT= 714.00 -45.000 -978.00



Appendix FC-2 to Calculation PGE-009-CALC-003

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

255 NODES (OF 17051 DEFINED) SELECTED FROM
160 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 510.0 LINE D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 510.10
KABS= 0. TOLERANCE= 0.612200E-05

195 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

120 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
195 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 510.10
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 510.000 -45.0000 -978.000

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

FX = 424530.9
FY = -140482.4
FZ = -200242.2
MX = 2002230.
MY = -8188003.
MZ = -1144933.

SUMMATION POINT= 510.00 -45.000 -978.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

195 NODES (OF 17051 DEFINED) SELECTED FROM
120 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 306.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 306.10
KABS= 0. TOLERANCE= 0.408200E-05

135 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

80 ELEMENTS (OF 15348 DEFINED) SELECTED FROM



Appendix FC-2 to Calculation PGE-009-CALC-003

135 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 306.10
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 306.000 -45.0000 -978.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 319811.9
FY = -99740.04
FZ = -210576.6
MX = 4047114.
MY = -7198791.
MZ = -0.1224008E+08

SUMMATION POINT= 306.00 -45.000 -978.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

135 NODES (OF 17051 DEFINED) SELECTED FROM
80 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 102.0 LINE B

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10
KABS= 0. TOLERANCE= 0.204200E-05

75 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

40 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
75 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 102.000 -45.0000 -978.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 114730.4
FY = -20397.20
FZ = -184577.3
MX = 4251029.
MY = -5585322.
MZ = -0.1646596E+08



Appendix FC-2 to Calculation PGE-009-CALC-003

SUMMATION POINT= 102.00 -45.000 -978.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

75 NODES (OF 17051 DEFINED) SELECTED FROM
40 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = -102.0 LINE A

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= -102.000 -45.0000 -978.000

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

FX = 174738.0
FY = -58783.32
FZ = 293934.9
MX = -9568495.
MY = -6364393.
MZ = 9050236.

SUMMATION POINT= -102.00 -45.000 -978.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

75 NODES (OF 17051 DEFINED) SELECTED FROM
40 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = -918 to -714 Lines 3 to 4

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = -918 to -714

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -918.10 AND -713.90



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KABS= 0. TOLERANCE= 0.204200E-05

2310 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2200 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2310 SELECTED NODES BY ENOD COMMAND.

Internal forces at x = 714.0 LINE E

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 713.90 AND 714.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 714.000 -45.0000 -816.000

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

FX = 646389.9
FY = -476856.2
FZ = 265057.6
MX = 7085754.
MY = 0.1015930E+08
MZ = 0.2902926E+08

SUMMATION POINT= 714.00 -45.000 -816.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2310 NODES (OF 17051 DEFINED) SELECTED FROM
2200 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 510.0 LINE D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 510.10
KABS= 0. TOLERANCE= 0.612200E-05

1740 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1650 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1740 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 510.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 510.000 -45.0000 -816.000

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

FX = 430733.3
FY = -455050.2
FZ = -116795.1
MX = 8768720.
MY = -5640580.
MZ = -1456373.

SUMMATION POINT= 510.00 -45.000 -816.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1740 NODES (OF 17051 DEFINED) SELECTED FROM
1650 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 306.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 306.10
KABS= 0. TOLERANCE= 0.408200E-05

1170 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1100 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1170 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 306.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 306.000 -45.0000 -816.000

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

FX = 380493.9
FY = -462537.7
FZ = -284208.6
MX = 0.1397448E+08
MY = -0.1010359E+08
MZ = -0.1945378E+08

SUMMATION POINT= 306.00 -45.000 -816.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1170 NODES (OF 17051 DEFINED) SELECTED FROM
1100 SELECTED ELEMENTS BY NELE COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

Internal forces at x = 102.0 LINE B

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10
KABS= 0. TOLERANCE= 0.204200E-05

600 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

550 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
600 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 102.000 -45.0000 -816.000

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

FX = 186946.7
FY = -345101.9
FZ = -307427.9
MX = 0.1564160E+08
MY = -9087120.
MZ = -0.3256782E+08

SUMMATION POINT= 102.00 -45.000 -816.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = -102.0 LINE A

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= -102.000 -45.0000 -816.000

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

FX = 293312.7
FY = 5330.396
FZ = 421550.6
MX = -1815580.



Appendix FC-2 to Calculation PGE-009-CALC-003

MY = -0.1030076E+08
MZ = 0.1288840E+08

SUMMATION POINT= -102.00 -45.000 -816.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = -714 to -510 Lines 4 to 5

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = -714 to -510

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -714.10 AND -509.90
KABS= 0. TOLERANCE= 0.204200E-05

2310 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2200 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2310 SELECTED NODES BY ENOD COMMAND.

Internal forces at x = 714.0 LINE E

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 713.90 AND 714.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 714.000 -45.0000 -612.000

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

FX = 733098.3
FY = -527781.4
FZ = 344630.1



Appendix FC-2 to Calculation PGE-009-CALC-003

MX = 2461190.
MY = 0.1034324E+08
MZ = 0.3287802E+08

SUMMATION POINT= 714.00 -45.000 -612.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2310 NODES (OF 17051 DEFINED) SELECTED FROM
2200 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 510.0 LINE D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 510.10
KABS= 0. TOLERANCE= 0.612200E-05

1740 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1650 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1740 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 510.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 510.000 -45.0000 -612.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 398241.9
FY = -415245.0
FZ = 93907.09
MX = 6204365.
MY = 2760650.
MZ = 414845.1

SUMMATION POINT= 510.00 -45.000 -612.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1740 NODES (OF 17051 DEFINED) SELECTED FROM
1650 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 306.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 306.10
KABS= 0. TOLERANCE= 0.408200E-05



Appendix FC-2 to Calculation PGE-009-CALC-003

1170 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1100 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1170 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 306.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 306.000 -45.0000 -612.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 328825.8
FY = -398697.7
FZ = -96681.86
MX = 8228230.
MY = -2875720.
MZ = -0.1388997E+08

SUMMATION POINT= 306.00 -45.000 -612.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1170 NODES (OF 17051 DEFINED) SELECTED FROM
1100 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 102.0 LINE B

RESELECT . FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10
KABS= 0. TOLERANCE= 0.204200E-05

600 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

550 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
600 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 102.000 -45.0000 -612.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 161903.0



Appendix FC-2 to Calculation PGE-009-CALC-003

FY = -443610.5
FZ = -197004.3
MX = 0.1515583E+08
MY = -5930858.
MZ = -0.3156664E+08

SUMMATION POINT= 102.00 -45.000 -612.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = -102.0 LINE A

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= -102.000 -45.0000 -612.000

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

FX = 321531.9
FY = -14869.31
FZ = 401446.0
MX = -4425918.
MY = -0.1004451E+08
MZ = 0.1448958E+08

SUMMATION POINT= -102.00 -45.000 -612.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = -510 to -306 Lines 5 to 6

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

select strip x direction z = -510 to -306

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

2310 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2200 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2310 SELECTED NODES BY ENOD COMMAND.

Internal forces at x = 714.0 LINE E

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 713.90 AND 714.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 714.000 -45.0000 -408.000

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

FX = 750486.3
FY = -527827.5
FZ = 406546.5
MX = 606947.0
MY = 0.1124829E+08
MZ = 0.3359276E+08

SUMMATION POINT= 714.00 -45.000 -408.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2310 NODES (OF 17051 DEFINED) SELECTED FROM
2200 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 510.0 LINE D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 510.10
KABS= 0. TOLERANCE= 0.612200E-05

1740 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1650 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1740 SELECTED NODES BY ENOD COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 510.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 510.000 -45.0000 -408.000

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

FX = 416097.3
FY = -402540.7
FZ = 236763.5
MX = 5051511.
MY = 6195717.
MZ = 1101304.

SUMMATION POINT= 510.00 -45.000 -408.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1740 NODES (OF 17051 DEFINED) SELECTED FROM
1650 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 306.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 306.10
KABS= 0. TOLERANCE= 0.408200E-05

1170 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1100 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1170 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 306.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 306.000 -45.0000 -408.000

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

FX = 332353.6
FY = -373967.0
FZ = 80138.89
MX = 5660842.
MY = 2281972.
MZ = -0.1084830E+08

SUMMATION POINT= 306.00 -45.000 -408.00



Appendix FC-2 to Calculation PGE-009-CALC-003

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1170 NODES (OF 17051 DEFINED) SELECTED FROM
1100 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 102.0 LINE B

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10
KABS= 0. TOLERANCE= 0.204200E-05

600 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

550 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
600 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 102.000 -45.0000 -408.000

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

FX = 150252.1
FY = -406282.9
FZ = -87139.58
MX = 8044234.
MY = -2464445.
MZ = -0.2658627E+08

SUMMATION POINT= 102.00 -45.000 -408.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = -102.0 LINE A

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= -102.000 -45.0000 -408.000



Appendix FC-2 to Calculation PGE-009-CALC-003

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 335713.5
FY = -303.0065
FZ = 372149.5
MX = -3015578.
MY = -0.1001551E+08
MZ = 0.1509623E+08

SUMMATION POINT= -102.00 -45.000 -408.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = -306 to -102 Lines 6 to 7

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = -306 to -102

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

2310 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2200 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2310 SELECTED NODES BY ENOD COMMAND.

Internal forces at x = 714.0 LINE E

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 713.90 AND 714.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 714.000 -45.0000 -204.000



Appendix FC-2 to Calculation PGE-009-CALC-003

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

FX = 730823.3
FY = -518313.2
FZ = 469925.1
MX = -215092.7
MY = 0.1240895E+08
MZ = 0.3261549E+08

SUMMATION POINT= 714.00 -45.000 -204.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2310 NODES (OF 17051 DEFINED) SELECTED FROM
2200 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 510.0 LINE D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 510.10
KABS= 0. TOLERANCE= 0.612200E-05

1740 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1650 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1740 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 510.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 510.000 -45.0000 -204.000

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

FX = 407309.1
FY = -394368.7
FZ = 383018.9
MX = 4865788.
MY = 9248279.
MZ = 1181751.

SUMMATION POINT= 510.00 -45.000 -204.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1740 NODES (OF 17051 DEFINED) SELECTED FROM
1650 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 306.0 LINE C



Appendix FC-2 to Calculation PGE-009-CALC-003

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 306.10
KABS= 0. TOLERANCE= 0.408200E-05

1170 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1100 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1170 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 306.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 306.000 -45.0000 -204.000

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

FX = 323079.5
FY = -359739.6
FZ = 255527.9
MX = 5570196.
MY = 6015783.
MZ = -9420260.

SUMMATION POINT= 306.00 -45.000 -204.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1170 NODES (OF 17051 DEFINED) SELECTED FROM
1100 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 102.0 LINE B

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10
KABS= 0. TOLERANCE= 0.204200E-05

600 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

550 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
600 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 102.000 -45.0000 -204.000

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

FX = 150569.4
FY = -367228.5
FZ = 26407.84
MX = 7563513.
MY = 599920.2
MZ = -0.2314059E+08

SUMMATION POINT= 102.00 -45.000 -204.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = -102.0 LINE A

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= -102.000 -45.0000 -204.000

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

FX = 328422.4
FY = 12902.69
FZ = 329590.9
MX = -2196714.
MY = -9196853.
MZ = 0.1454880E+08

SUMMATION POINT= -102.00 -45.000 -204.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = -102 to 102 Lines 7 to 8

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = -102 to 102

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -102.10 AND 102.10
KABS= 0. TOLERANCE= 0.204200E-05

2310 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2200 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2310 SELECTED NODES BY ENOD COMMAND.

Internal forces at x = 714.0 LINE E

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 713.90 AND 714.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 714.000 -45.0000 0.00000

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

FX = 683272.2
FY = -507867.1
FZ = 545485.8
MX = 55936.34
MY = 0.1401950E+08
MZ = 0.3042381E+08

SUMMATION POINT= 714.00 -45.000 0.0000

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2310 NODES (OF 17051 DEFINED) SELECTED FROM
2200 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 510.0 LINE D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 510.10
KABS= 0. TOLERANCE= 0.612200E-05

1740 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1650 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1740 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 510.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 510.000 -45.0000 0.00000

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

FX = 345252.4
FY = -388397.2
FZ = 508027.0
MX = 5548398.
MY = 0.1101486E+08
MZ = 1121853.

SUMMATION POINT= 510.00 -45.000 0.0000

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1740 NODES (OF 17051 DEFINED) SELECTED FROM
1650 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 306.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 306.10
KABS= 0. TOLERANCE= 0.408200E-05

1170 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1100 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1170 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 306.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 306.000 -45.0000 0.00000

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

FX = 201475.8
FY = -351939.6
FZ = 429490.6



Appendix FC-2 to Calculation PGE-009-CALC-003

MX = 6753732.
MY = 6928509.
MZ = -7784088.

SUMMATION POINT= 306.00 -45.000 0.0000

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1170 NODES (OF 17051 DEFINED) SELECTED FROM
1100 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 102.0 LINE B

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10
KABS= 0. TOLERANCE= 0.204200E-05

600 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

550 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
600 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 102.000 -45.0000 0.00000

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

FX = 82910.26
FY = -339566.8
FZ = 182374.9
MX = 9817525.
MY = 1491478.
MZ = -0.1904374E+08

SUMMATION POINT= 102.00 -45.000 0.0000

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = -102.0 LINE A

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08



Appendix FC-2 to Calculation PGE-009-CALC-003

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= -102.000 -45.0000 0.00000

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

FX = 314324.9
FY = 20175.92
FZ = 284204.7
MX = -3299228.
MY = -8118868.
MZ = 0.1373567E+08

SUMMATION POINT= -102.00 -45.000 0.0000

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 222 Lines 8 to 10

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 222

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 222.10
KABS= 0. TOLERANCE= 0.120200E-05

255 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

160 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
255 SELECTED NODES BY ENOD COMMAND.

Internal forces at x = 714.0 LINE E

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 713.90 AND 714.10
KABS= 0. TOLERANCE= 0.200000E-08



Appendix FC-2 to Calculation PGE-009-CALC-003

```
15  NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 714.000 -45.0000 162.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 443153.9
FY = -229012.6
FZ = 495881.5
MX = -8654263.
MY = 0.1243183E+08
MZ = 0.2198581E+08

SUMMATION POINT= 714.00 -45.000 162.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

255 NODES (OF 17051 DEFINED) SELECTED FROM
160 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 510.0 LINE D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 510.10
KABS= 0. TOLERANCE= 0.612200E-05

195 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

120 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
195 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 510.10
KABS= 0. TOLERANCE= 0.200000E-08

15  NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 510.000 -45.0000 162.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 138730.0
FY = -157162.8
FZ = 289376.9
MX = 1426322.
MY = 6897289.
MZ = 4523608.

SUMMATION POINT= 510.00 -45.000 162.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.
```



Appendix FC-2 to Calculation PGE-009-CALC-003

195 NODES (OF 17051 DEFINED) SELECTED FROM
120 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 306.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 306.10
KABS= 0. TOLERANCE= 0.408200E-05

135 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

80 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
135 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 306.10
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 306.000 -45.0000 162.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = -43617.36
FY = -146203.5
FZ = 266525.5
MX = 2241889.
MY = 5433144.
MZ = 473371.9

SUMMATION POINT= 306.00 -45.000 162.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

135 NODES (OF 17051 DEFINED) SELECTED FROM
80 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 102.0 LINE B

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10
KABS= 0. TOLERANCE= 0.204200E-05

75 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

40 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
75 SELECTED NODES BY ENOD COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 102.000 -45.0000 162.000

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

FX = -205809.3
FY = -147187.7
FZ = 199915.2
MX = 5000049.
MY = 1778515.
MZ = -4387300.

SUMMATION POINT= 102.00 -45.000 162.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

75 NODES (OF 17051 DEFINED) SELECTED FROM
40 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = -102.0 LINE A

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= -102.000 -45.0000 162.000

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

FX = 268140.3
FY = 31297.67
FZ = 121944.4
MX = -0.1010383E+08
MY = -616211.7
MZ = 0.1181936E+08

SUMMATION POINT= -102.00 -45.000 162.00

15348 ELEMENTS (OF 15348 DEFINED) SELECTED BY EALL COMMAND.

17051 NODES (OF 17051 DEFINED) SELECTED BY NALL COMMAND.

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



Appendix FC-2 to Calculation PGE-009-CALC-003

```
USE LOAD STEP      3  SUBSTEP      0  FOR LOAD CASE 0

SET COMMAND GOT LOAD STEP=      3  SUBSTEP=      1  CUMULATIVE ITERATION=      32
TIME/FREQUENCY=  3.0000
TITLE= Pad, HE(1), 20 Casks, 515 Kip West (W), Soft Rock (Nu = 0.23)

SECTION THE PAD IN TO 4 NORTH-SOUTH Z-DIRECTION STRIPS

Select all nodes in pad only

ESEL  FOR LABEL= TYPE  FROM      1 TO      1 BY      1

      9056  ELEMENTS (OF      15348  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

      11550 NODES (OF      17051  DEFINED) SELECTED FROM
      9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = -102 to 102 Lines A to B

RESELECT      FOR ITEM=LOC  COMPONENT=X      BETWEEN -102.10      AND      102.10
KABS=  0.  TOLERANCE= 0.204200E-05

      3000  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

      2830 ELEMENTS (OF      15348  DEFINED) SELECTED FROM
      3000 SELECTED NODES BY  ENOD  COMMAND.

Internal forces at Z = 222.0 LINE 10

RESELECT      FOR ITEM=LOC  COMPONENT=Z      BETWEEN  221.90      AND      222.10
KABS=  0.  TOLERANCE= 0.200000E-08

      25  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=      0
MOMENT SUMMATION LOCATION=  0.00000      -45.0000      222.000

***** SUMMATION OF TOTAL      FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX  =  485139.4
FY  =  -89537.62
FZ  =  35176.20
MX  =  1146426.
MY  =  -0.1330304E+08
MZ  =  7618603.
```



Appendix FC-2 to Calculation PGE-009-CALC-003

SUMMATION POINT= 0.0000 -45.000 222.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

3000 NODES (OF 17051 DEFINED) SELECTED FROM
2830 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = 162.0 LINE 9

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 162.10
KABS= 0. TOLERANCE= 0.120020E-04

2975 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2810 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2975 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 161.90 AND 162.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 162.000

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

FX = 386507.6
FY = -66094.50
FZ = 175654.2
MX = 4602546.
MY = -7007230.
MZ = -0.1022179E+08

SUMMATION POINT= 0.0000 -45.000 162.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2975 NODES (OF 17051 DEFINED) SELECTED FROM
2810 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = 102.0 LINE 8

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 102.10
KABS= 0. TOLERANCE= 0.114020E-04

2950 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.



Appendix FC-2 to Calculation PGE-009-CALC-003

2790 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2950 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 102.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 417575.5
FY = -37334.19
FZ = 302874.6
MX = 7148916.
MY = -2200719.
MZ = -0.2104103E+08

SUMMATION POINT= 0.0000 -45.000 102.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2950 NODES (OF 17051 DEFINED) SELECTED FROM
2790 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -102.0 LINE 7

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -101.90
KABS= 0. TOLERANCE= 0.936200E-05

2375 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2240 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2375 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 -102.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 265417.6
FY = -17636.15
FZ = 666023.7
MX = 9627757.
MY = 2844767.



Appendix FC-2 to Calculation PGE-009-CALC-003

MZ = -0.1181380E+08

SUMMATION POINT= 0.0000 -45.000 -102.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2375 NODES (OF 17051 DEFINED) SELECTED FROM
2240 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -306.0 LINE 6

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -305.90
KABS= 0. TOLERANCE= 0.732200E-05

1800 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1690 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1800 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -306.10 AND -305.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 -306.000

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

FX = 123389.8
FY = -29161.28
FZ = 822423.7
MX = 9251839.
MY = 6646168.
MZ = -8278006.

SUMMATION POINT= 0.0000 -45.000 -306.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1800 NODES (OF 17051 DEFINED) SELECTED FROM
1690 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -510.0 LINE 5

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -509.90
KABS= 0. TOLERANCE= 0.528200E-05

1225 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1140 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1225 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -510.10 AND -509.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 -510.000

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

FX = -14584.73
FY = -46264.74
FZ = 801460.7
MX = 9141509.
MY = 9345098.
MZ = -5397153.

SUMMATION POINT= 0.0000 -45.000 -510.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1225 NODES (OF 17051 DEFINED) SELECTED FROM
1140 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -714.0 LINE 4

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -713.90
KABS= 0. TOLERANCE= 0.324200E-05

650 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

590 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
650 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -714.10 AND -713.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 -714.000

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

FX = -155691.2
FY = -54530.42
FZ = 602041.7



Appendix FC-2 to Calculation PGE-009-CALC-003

MX = 9205670.
MY = 0.1113584E+08
MZ = -1283615.

SUMMATION POINT= 0.0000 -45.000 -714.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

650 NODES (OF 17051 DEFINED) SELECTED FROM
590 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -918.0 LINE 3

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -917.90
KABS= 0. TOLERANCE= 0.120200E-05

75 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

40 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
75 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -918.10 AND -917.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 -918.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = -309161.6
FY = -10482.14
FZ = 175628.2
MX = 6245432.
MY = 0.1386565E+08
MZ = 0.1020546E+08

SUMMATION POINT= 0.0000 -45.000 -918.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

75 NODES (OF 17051 DEFINED) SELECTED FROM
40 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -978.0 LINE 2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -977.90
KABS= 0. TOLERANCE= 0.602000E-06



Appendix FC-2 to Calculation PGE-009-CALC-003

```
50 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

20 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
50 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -978.10 AND -977.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 -978.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = -407805.5
FY = 12900.66
FZ = 35161.03
MX = 4210606.
MY = 0.1348912E+08
MZ = -7634811.

SUMMATION POINT= 0.0000 -45.000 -978.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

50 NODES (OF 17051 DEFINED) SELECTED FROM
20 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -1038.0 LINE 1

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -1037.9
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 0.00000 -45.0000 -1038.00

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 485070.5
FY = -89400.66
FZ = -35161.03
MX = -1141566.
MY = 0.1329716E+08
MZ = 7634811.

SUMMATION POINT= 0.0000 -45.000 -1038.0
next strip x = 102 to 306 Lines B to C

Select all nodes in pad only
```




Appendix FC-2 to Calculation PGE-009-CALC-003

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction

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

3000 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2830 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
3000 SELECTED NODES BY ENOD COMMAND.

Internal forces at Z = 222.0 LINE 10

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 221.90 AND 222.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 204.000 -45.0000 222.000

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

FX = 659925.8
FY = -138349.1
FZ = 114867.2
MX = -4786930.
MY = -0.2039462E+08
MZ = 4774883.

SUMMATION POINT= 204.00 -45.000 222.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

3000 NODES (OF 17051 DEFINED) SELECTED FROM
2830 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = 162.0 LINE 9



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Appendix FC-2 to Calculation PGE-009-CALC-003

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 162.10
KABS= 0. TOLERANCE= 0.120020E-04

2975 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2810 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2975 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 161.90 AND 162.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 204.000 -45.0000 162.000

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

FX = 606235.0
FY = -124491.3
FZ = 147385.4
MX = 616738.0
MY = -0.1801089E+08
MZ = -5897805.

SUMMATION POINT= 204.00 -45.000 162.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2975 NODES (OF 17051 DEFINED) SELECTED FROM
2810 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = 102.0 LINE 8

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 102.10
KABS= 0. TOLERANCE= 0.114020E-04

2950 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2790 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2950 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 204.000 -45.0000 102.000



Appendix FC-2 to Calculation PGE-009-CALC-003

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

FX = 659653.8
FY = -108911.2
FZ = 171637.8
MX = 5646197.
MY = -0.1326017E+08
MZ = -0.1011285E+08

SUMMATION POINT= 204.00 -45.000 102.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2950 NODES (OF 17051 DEFINED) SELECTED FROM
2790 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -102.0 LINE 7

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -101.90
KABS= 0. TOLERANCE= 0.936200E-05

2375 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2240 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2375 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 204.000 -45.0000 -102.000

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

FX = 420408.6
FY = -34261.00
FZ = 365078.2
MX = 9000132.
MY = -5438256.
MZ = -6691775.

SUMMATION POINT= 204.00 -45.000 -102.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2375 NODES (OF 17051 DEFINED) SELECTED FROM
2240 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -306.0 LINE 6



Appendix FC-2 to Calculation PGE-009-CALC-003

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -305.90
KABS= 0. TOLERANCE= 0.732200E-05

1800 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1690 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1800 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -306.10 AND -305.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 204.000 -45.0000 -306.000

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

FX = 158195.9
FY = -26702.45
FZ = 439505.4
MX = 8063461.
MY = 1816148.
MZ = -5622658.

SUMMATION POINT= 204.00 -45.000 -306.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1800 NODES (OF 17051 DEFINED) SELECTED FROM
1690 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -510.0 LINE 5

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -509.90
KABS= 0. TOLERANCE= 0.528200E-05

1225 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1140 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1225 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -510.10 AND -509.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 204.000 -45.0000 -510.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = -93457.14
FY = -26763.80
FZ = 429139.7
MX = 8321882.
MY = 6716164.
MZ = -4665837.

SUMMATION POINT= 204.00 -45.000 -510.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1225 NODES (OF 17051 DEFINED) SELECTED FROM
1140 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -714.0 LINE 4

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -713.90
KABS= 0. TOLERANCE= 0.324200E-05

650 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

590 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
650 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -714.10 AND -713.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 204.000 -45.0000 -714.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = -355887.2
FY = -12853.64
FZ = 334005.6
MX = 9758534.
MY = 9668099.
MZ = -3230802.

SUMMATION POINT= 204.00 -45.000 -714.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

650 NODES (OF 17051 DEFINED) SELECTED FROM
590 SELECTED ELEMENTS BY NELE COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

Internal forces at Z = -918.0 LINE 3

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -917.90
KABS= 0. TOLERANCE= 0.120200E-05

75 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

40 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
75 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -918.10 AND -917.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 204.000 -45.0000 -918.000

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

FX = -528955.2
FY = 47713.07
FZ = 147368.4
MX = 5728477.
MY = 0.1604679E+08
MZ = 5921928.

SUMMATION POINT= 204.00 -45.000 -918.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

75 NODES (OF 17051 DEFINED) SELECTED FROM
40 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -978.0 LINE 2

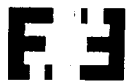
RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -977.90
KABS= 0. TOLERANCE= 0.602000E-06

50 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

20 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
50 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -978.10 AND -977.90
KABS= 0. TOLERANCE= 0.200000E-08



Appendix FC-2 to Calculation PGE-009-CALC-003

```
25  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=      0
MOMENT SUMMATION LOCATION=  204.000      -45.0000      -978.000

***** SUMMATION OF TOTAL      FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX  =  -582620.6
FY  =   60698.38
FZ  =   114669.4
MX  =   1166434.
MY  =   0.1687949E+08
MZ  =  -4716822.

SUMMATION POINT=  204.00      -45.000      -978.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

50  NODES (OF      17051  DEFINED) SELECTED FROM
20  SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -1038.0 LINE 1

RESELECT      FOR ITEM=LOC  COMPONENT=Z      BETWEEN -1038.1      AND  -1037.9
KABS=  0.  TOLERANCE= 0.200000E-08

25  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=      0
MOMENT SUMMATION LOCATION=  204.000      -45.0000      -1038.00

***** SUMMATION OF TOTAL      FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX  =   659885.6
FY  =  -137198.4
FZ  =  -114669.4
MX  =   4770469.
MY  =   0.2039569E+08
MZ  =   4716822.

SUMMATION POINT=  204.00      -45.000      -1038.0
next strip x = 306 to 510 Lines C to D

Select all nodes in pad only

ESEL  FOR LABEL= TYPE  FROM      1 TO      1 BY      1

9056  ELEMENTS (OF      15348  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550  NODES (OF      17051  DEFINED) SELECTED FROM
9056  SELECTED ELEMENTS BY NELE COMMAND.
```



Appendix FC-2 to Calculation PGE-009-CALC-003

select strip Z direction

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

3000 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2830 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
3000 SELECTED NODES BY ENOD COMMAND.

Internal forces at Z = 222.0 LINE 10

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 221.90 AND 222.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 222.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 698094.9
FY = -161089.7
FZ = 170501.6
MX = -7840343.
MY = -0.2021427E+08
MZ = 8990055.

SUMMATION POINT= 408.00 -45.000 222.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

3000 NODES (OF 17051 DEFINED) SELECTED FROM
2830 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = 162.0 LINE 9

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 162.10
KABS= 0. TOLERANCE= 0.120020E-04

2975 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2810 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2975 SELECTED NODES BY ENOD COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 161.90 AND 162.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 162.000

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

FX = 620663.1
FY = -127464.7
FZ = 162732.0
MX = -729466.9
MY = -0.1766746E+08
MZ = -4439574.

SUMMATION POINT= 408.00 -45.000 162.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2975 NODES (OF 17051 DEFINED) SELECTED FROM
2810 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = 102.0 LINE 8

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 102.10
KABS= 0. TOLERANCE= 0.114020E-04

2950 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2790 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2950 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 102.000

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

FX = 661516.8
FY = -96668.44
FZ = 151294.7
MX = 4235683.
MY = -0.1286054E+08
MZ = -9692209.

SUMMATION POINT= 408.00 -45.000 102.00



Appendix FC-2 to Calculation PGE-009-CALC-003

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2950 NODES (OF 17051 DEFINED) SELECTED FROM
2790 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -102.0 LINE 7

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -101.90
KABS= 0. TOLERANCE= 0.936200E-05

2375 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2240 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2375 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 -102.000

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

FX = 407905.0
FY = -28907.06
FZ = 164180.9
MX = 6610726.
MY = -4616462.
MZ = -6188160.

SUMMATION POINT= 408.00 -45.000 -102.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2375 NODES (OF 17051 DEFINED) SELECTED FROM
2240 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -306.0 LINE 6

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -305.90
KABS= 0. TOLERANCE= 0.732200E-05

1800 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1690 ELEMENTS (OF 15348 DEFINED) SELECTED FROM



Appendix FC-2 to Calculation PGE-009-CALC-003

1800 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -306.10 AND -305.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 -306.000

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

FX = 150771.1
FY = -24652.87
FZ = 130551.7
MX = 5040765.
MY = 2369790.
MZ = -5619281.

SUMMATION POINT= 408.00 -45.000 -306.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1800 NODES (OF 17051 DEFINED) SELECTED FROM
1690 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -510.0 LINE 5

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -509.90
KABS= 0. TOLERANCE= 0.528200E-05

1225 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1140 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1225 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -510.10 AND -509.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 -510.000

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

FX = -92765.83
FY = -26333.99
FZ = 133764.2
MX = 5257312.
MY = 7132871.
MZ = -5217576.

Appendix FC-2 to Calculation PGE-009-CALC-003

SUMMATION POINT= 408.00 -45.000 -510.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1225 NODES (OF 17051 DEFINED) SELECTED FROM
1140 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -714.0 LINE 4

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -713.90
KABS= 0. TOLERANCE= 0.324200E-05

650 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

590 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
650 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -714.10 AND -713.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 -714.000

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

FX = -352081.8
FY = -11005.29
FZ = 173906.4
MX = 7185333.
MY = 0.1020948E+08
MZ = -4344187.

SUMMATION POINT= 408.00 -45.000 -714.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

650 NODES (OF 17051 DEFINED) SELECTED FROM
590 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -918.0 LINE 3

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -917.90
KABS= 0. TOLERANCE= 0.120200E-05

75 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.



Appendix FC-2 to Calculation PGE-009-CALC-003

40 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
75 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -918.10 AND -917.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 -918.000

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

FX = -543411.2

FY = 50910.74

FZ = 162721.9

MX = 4626158.

MY = 0.1725491E+08

MZ = 4448484.

SUMMATION POINT= 408.00 -45.000 -918.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

75 NODES (OF 17051 DEFINED) SELECTED FROM
40 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -978.0 LINE 2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -977.90
KABS= 0. TOLERANCE= 0.602000E-06

50 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

20 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
50 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -978.10 AND -977.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 -978.000

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

FX = -620788.1

FY = 84782.94

FZ = 170539.2

MX = -461989.5



Appendix FC-2 to Calculation PGE-009-CALC-003

MY = 0.1935847E+08
MZ = -9008117.

SUMMATION POINT= 408.00 -45.000 -978.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

50 NODES (OF 17051 DEFINED) SELECTED FROM
20 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -1038.0 LINE 1

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -1037.9
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 408.000 -45.0000 -1038.00

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

FX = 698053.1
FY = -161282.9
FZ = -170539.2
MX = 7843966.
MY = 0.2020677E+08
MZ = 9008117.

SUMMATION POINT= 408.00 -45.000 -1038.0
next strip x = 510 to 714 Lines D to E

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 714.10
KABS= 0. TOLERANCE= 0.204200E-05

3000 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.



Appendix FC-2 to Calculation PGE-009-CALC-003

2830 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
3000 SELECTED NODES BY ENOD COMMAND.

Internal forces at Z = 222.0 LINE 10

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 221.90 AND 222.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 222.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 675600.1
FY = -166999.3
FZ = 210025.5
MX = -0.1239483E+08
MY = -0.1990065E+08
MZ = 9506563.

SUMMATION POINT= 612.00 -45.000 222.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

3000 NODES (OF 17051 DEFINED) SELECTED FROM
2830 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = 162.0 LINE 9

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 162.10
KABS= 0. TOLERANCE= 0.120020E-04

2975 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2810 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2975 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 161.90 AND 162.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 162.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 448029.9



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Appendix FC-2 to Calculation PGE-009-CALC-003

FY = -169773.0
FZ = 87465.81
MX = -6106951.
MY = -8578059.
MZ = -6759482.

SUMMATION POINT= 612.00 -45.000 162.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2975 NODES (OF 17051 DEFINED) SELECTED FROM
2810 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = 102.0 LINE 8

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 102.10
KABS= 0. TOLERANCE= 0.114020E-04

2950 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2790 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2950 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 102.000

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

FX = 442063.3
FY = -188251.3
FZ = -29677.21
MX = 411313.7
MY = -2760075.
MZ = -0.1575923E+08

SUMMATION POINT= 612.00 -45.000 102.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2950 NODES (OF 17051 DEFINED) SELECTED FROM
2790 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -102.0 LINE 7

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -101.90



Appendix FC-2 to Calculation PGE-009-CALC-003

KABS= 0. TOLERANCE= 0.936200E-05

2375 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2240 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2375 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 -102.000

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

FX	=	259841.6
FY	=	-69930.14
FZ	=	-177759.3
MX	=	2841897.
MY	=	807833.7
MZ	=	-8481952.

SUMMATION POINT= 612.00 -45.000 -102.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2375 NODES (OF 17051 DEFINED) SELECTED FROM
2240 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -306.0 LINE 6

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -305.90
KABS= 0. TOLERANCE= 0.732200E-05

1800 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

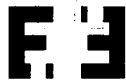
SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1690 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1800 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -306.10 AND -305.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 -306.000



Appendix FC-2 to Calculation PGE-009-CALC-003

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

FX = 117168.2
FY = -53779.19
FZ = -273880.1
MX = 602800.0
MY = 4010150.
MZ = -7280343.

SUMMATION POINT= 612.00 -45.000 -306.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1800 NODES (OF 17051 DEFINED) SELECTED FROM
1690 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -510.0 LINE 5

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -509.90
KABS= 0. TOLERANCE= 0.528200E-05

1225 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1140 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1225 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -510.10 AND -509.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 -510.000

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

FX = -17438.37
FY = -48576.24
FZ = -262617.3
MX = 1003494.
MY = 6694238.
MZ = -6508704.

SUMMATION POINT= 612.00 -45.000 -510.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1225 NODES (OF 17051 DEFINED) SELECTED FROM
1140 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -714.0 LINE 4



Appendix FC-2 to Calculation PGE-009-CALC-003

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -713.90
KABS= 0. TOLERANCE= 0.324200E-05

650 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

590 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
650 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -714.10 AND -713.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 -714.000

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

FX = -162814.5
FY = -21174.34
FZ = -143084.3
MX = 4216598.
MY = 9485942.
MZ = -4942295.

SUMMATION POINT= 612.00 -45.000 -714.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

650 NODES (OF 17051 DEFINED) SELECTED FROM
590 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -918.0 LINE 3

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -917.90
KABS= 0. TOLERANCE= 0.120200E-05

75 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

40 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
75 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -918.10 AND -917.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0



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Appendix FC-2 to Calculation PGE-009-CALC-003

MOMENT SUMMATION LOCATION= 612.000 -45.0000 -918.000

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

FX = -370765.1
FY = 93264.46
FZ = 87452.69
MX = 1784874.
MY = 0.1598639E+08
MZ = 6759374.

SUMMATION POINT= 612.00 -45.000 -918.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

75 NODES (OF 17051 DEFINED) SELECTED FROM
40 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at Z = -978.0 LINE 2

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -977.90
KABS= 0. TOLERANCE= 0.602000E-06

50 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

20 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
50 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -978.10 AND -977.90
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 -978.000

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

FX = -598333.6
FY = 90506.00
FZ = 210011.0
MX = -4668900.
MY = 0.1831804E+08
MZ = -9507463.

SUMMATION POINT= 612.00 -45.000 -978.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

50 NODES (OF 17051 DEFINED) SELECTED FROM
20 SELECTED ELEMENTS BY NELE COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

Internal forces at Z = -1038.0 LINE 1

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -1037.9
KABS= 0. TOLERANCE= 0.200000E-08

25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 612.000 -45.0000 -1038.00

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 675598.6
FY = -167006.0
FZ = -210011.0
MX = 0.1239426E+08
MY = 0.1989993E+08
MZ = 9507463.

SUMMATION POINT= 612.00 -45.000 -1038.0

SECTION THE PAD IN TO 7 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = -1038 to -918 Lines 1 to 3

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -917.90
KABS= 0. TOLERANCE= 0.120200E-05

255 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

160 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
255 SELECTED NODES BY ENOD COMMAND.

Internal forces at x = 714.0 LINE E



Appendix FC-2 to Calculation PGE-009-CALC-003

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 713.90 AND 714.10
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 714.000 -45.0000 -978.000

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

FX = 588775.0
FY = -245557.2
FZ = -291206.2
MX = 2211052.
MY = -8563521.
MZ = 0.2745872E+08

SUMMATION POINT= 714.00 -45.000 -978.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

255 NODES (OF 17051 DEFINED) SELECTED FROM
160 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 510.0 LINE D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 510.10
KABS= 0. TOLERANCE= 0.612200E-05

195 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

120 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
195 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 510.10
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 510.000 -45.0000 -978.000

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

FX = 383110.7
FY = -214475.4
FZ = -360687.5
MX = -2906128.
MY = -0.1096055E+08
MZ = 5549611.

SUMMATION POINT= 510.00 -45.000 -978.00



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SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

195 NODES (OF 17051 DEFINED) SELECTED FROM
120 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 306.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 306.10
KABS= 0. TOLERANCE= 0.408200E-05

135 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

80 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
135 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 306.10
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 306.000 -45.0000 -978.000

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

FX = 178486.7
FY = -229378.1
FZ = -362307.1
MX = -4150946.
MY = -9478231.
MZ = -4897925.

SUMMATION POINT= 306.00 -45.000 -978.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

135 NODES (OF 17051 DEFINED) SELECTED FROM
80 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 102.0 LINE B

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10
KABS= 0. TOLERANCE= 0.204200E-05

75 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

40 ELEMENTS (OF 15348 DEFINED) SELECTED FROM



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Appendix FC-2 to Calculation PGE-009-CALC-003

75 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 102.000 -45.0000 -978.000

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

FX = -54465.06
FY = -147441.7
FZ = -292592.4
MX = -3543731.
MY = -5844667.
MZ = -0.2198856E+08

SUMMATION POINT= 102.00 -45.000 -978.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

75 NODES (OF 17051 DEFINED) SELECTED FROM
40 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = -102.0 LINE A

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= -102.000 -45.0000 -978.000

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

FX = 319589.9
FY = -51072.54
FZ = 169786.6
MX = -1376962.
MY = -4909933.
MZ = 0.1551675E+08

SUMMATION POINT= -102.00 -45.000 -978.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

75 NODES (OF 17051 DEFINED) SELECTED FROM
40 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = -918 to -714 Lines 3 to 4

Appendix FC-2 to Calculation PGE-009-CALC-003

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = -918 to -714

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -918.10 AND -713.90
KABS= 0. TOLERANCE= 0.204200E-05

2310 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2200 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2310 SELECTED NODES BY ENOD COMMAND.

Internal forces at x = 714.0 LINE E

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 713.90 AND 714.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 714.000 -45.0000 -816.000

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

FX = 888726.3
FY = -613179.0
FZ = -190980.9
MX = 2215701.
MY = -3218524.
MZ = 0.3954502E+08

SUMMATION POINT= 714.00 -45.000 -816.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2310 NODES (OF 17051 DEFINED) SELECTED FROM
2200 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 510.0 LINE D



Appendix FC-2 to Calculation PGE-009-CALC-003

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 510.10
KABS= 0. TOLERANCE= 0.612200E-05

1740 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1650 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1740 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 510.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 510.000 -45.0000 -816.000

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

FX = 489562.0
FY = -543988.6
FZ = -466041.9
MX = -720594.7
MY = -0.1311663E+08
MZ = 3583756.

SUMMATION POINT= 510.00 -45.000 -816.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1740 NODES (OF 17051 DEFINED) SELECTED FROM
1650 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 306.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 306.10
KABS= 0. TOLERANCE= 0.408200E-05

1170 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1100 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1170 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 306.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 306.000 -45.0000 -816.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 358032.3
FY = -530276.5
FZ = -536423.2
MX = -1389393.
MY = -0.1343559E+08
MZ = -0.1668333E+08

SUMMATION POINT= 306.00 -45.000 -816.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1170 NODES (OF 17051 DEFINED) SELECTED FROM
1100 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 102.0 LINE B

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10
KABS= 0. TOLERANCE= 0.204200E-05

600 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

550 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
600 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 102.000 -45.0000 -816.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 155202.7
FY = -511651.1
FZ = -392964.6
MX = -2607676.
MY = -8696690.
MZ = -0.4486682E+08

SUMMATION POINT= 102.00 -45.000 -816.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

Internal forces at x = -102.0 LINE A

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= -102.000 -45.0000 -816.000

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

FX = 449328.9
FY = 28906.73
FZ = 152428.7
MX = 3072466.
MY = -3709047.
MZ = 0.1970784E+08

SUMMATION POINT= -102.00 -45.000 -816.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = -714 to -510 Lines 4 to 5

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = -714 to -510

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -714.10 AND -509.90
KABS= 0. TOLERANCE= 0.204200E-05

2310 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2200 ELEMENTS (OF 15348 DEFINED) SELECTED FROM



Appendix FC-2 to Calculation PGE-009-CALC-003

2310 SELECTED NODES BY ENOD COMMAND.

Internal forces at x = 714.0 LINE E

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 713.90 AND 714.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 714.000 -45.0000 -612.000

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

FX = 965305.5
FY = -653060.8
FZ = -88363.12
MX = 1189939.
MY = -1577482.
MZ = 0.4308067E+08

SUMMATION POINT= 714.00 -45.000 -612.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2310 NODES (OF 17051 DEFINED) SELECTED FROM
2200 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 510.0 LINE D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 510.10
KABS= 0. TOLERANCE= 0.612200E-05

1740 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1650 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1740 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 510.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 510.000 -45.0000 -612.000

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

FX = 482354.9
FY = -553517.1
FZ = -218199.5



Appendix FC-2 to Calculation PGE-009-CALC-003

MX = -285184.8
MY = -5066275.
MZ = 3422876.

SUMMATION POINT= 510.00 -45.000 -612.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1740 NODES (OF 17051 DEFINED) SELECTED FROM
1650 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 306.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 306.10
KABS= 0. TOLERANCE= 0.408200E-05

1170 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1100 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1170 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 306.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 306.000 -45.0000 -612.000

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

FX = 372678.4
FY = -540636.8
FZ = -270920.7
MX = -827553.4
MY = -6802479.
MZ = -0.1750906E+08

SUMMATION POINT= 306.00 -45.000 -612.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1170 NODES (OF 17051 DEFINED) SELECTED FROM
1100 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 102.0 LINE B

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10
KABS= 0. TOLERANCE= 0.204200E-05

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600 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

550 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
600 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 102.000 -45.0000 -612.000

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

FX	=	184325.8
FY	=	-539357.2
FZ	=	-191488.7
MX	=	-1466505.
MY	=	-5116964.
MZ	=	-0.4730094E+08

SUMMATION POINT= 102.00 -45.000 -612.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = -102.0 LINE A

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= -102.000 -45.0000 -612.000

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

FX	=	465411.2
FY	=	15088.69
FZ	=	75488.03
MX	=	732514.6
MY	=	-1690695.
MZ	=	0.2051609E+08

SUMMATION POINT= -102.00 -45.000 -612.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.



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Appendix FC-2 to Calculation PGE-009-CALC-003

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = -510 to -306 Lines 5 to 6

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = -510 to -306

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

2310 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2200 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2310 SELECTED NODES BY ENOD COMMAND.

Internal forces at x = 714.0 LINE E

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 713.90 AND 714.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 714.000 -45.0000 -408.000

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

FX = 989013.6
FY = -661832.0
FZ = 11.93679
MX = -87.41141
MY = 252.4810
MZ = 0.4418930E+08

SUMMATION POINT= 714.00 -45.000 -408.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

Appendix FC-2 to Calculation PGE-009-CALC-003

2310 NODES (OF 17051 DEFINED) SELECTED FROM
2200 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 510.0 LINE D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 510.10
KABS= 0. TOLERANCE= 0.612200E-05

1740 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1650 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1740 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 510.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 510.000 -45.0000 -408.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 497106.3
FY = -555913.6
FZ = 22.17282
MX = 459.0239
MY = 425.7515
MZ = 3455052.

SUMMATION POINT= 510.00 -45.000 -408.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1740 NODES (OF 17051 DEFINED) SELECTED FROM
1650 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 306.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 306.10
KABS= 0. TOLERANCE= 0.408200E-05

1170 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1100 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1170 SELECTED NODES BY ENOD COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 306.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 306.000 -45.0000 -408.000

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

FX = 378020.6
FY = -541933.5
FZ = 29.97590
MX = 2002.280
MY = 491.1833
MZ = -0.1766020E+08

SUMMATION POINT= 306.00 -45.000 -408.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1170 NODES (OF 17051 DEFINED) SELECTED FROM
1100 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 102.0 LINE B

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10
KABS= 0. TOLERANCE= 0.204200E-05

600 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

550 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
600 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 102.000 -45.0000 -408.000

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

FX = 181249.8
FY = -544840.6
FZ = 34.68612
MX = 5916.936
MY = 600.1161
MZ = -0.4770607E+08

SUMMATION POINT= 102.00 -45.000 -408.00



Appendix FC-2 to Calculation PGE-009-CALC-003

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = -102.0 LINE A

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= -102.000 -45.0000 -408.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 474331.7
FY = 14190.67
FZ = -22.18589
MX = -3179.364
MY = 1032.325
MZ = 0.2095249E+08

SUMMATION POINT= -102.00 -45.000 -408.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = -306 to -102 Lines 6 to 7

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = -306 to -102

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

Appendix FC-2 to Calculation PGE-009-CALC-003

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2310  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2200  ELEMENTS (OF      15348  DEFINED) SELECTED FROM
2310  SELECTED NODES BY  ENOD  COMMAND.

Internal forces at x = 714.0 LINE E

RESELECT    FOR ITEM=LOC  COMPONENT=X      BETWEEN  713.90      AND      714.10
KABS=  0.  TOLERANCE= 0.200000E-08

30  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=      0
MOMENT SUMMATION LOCATION=  714.000      -45.0000      -204.000

***** SUMMATION OF TOTAL      FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX  =   965296.1
FY  =  -653053.1
FZ  =   88385.63
MX  =  -1190109.
MY  =   1577968.
MZ  =   0.4308026E+08

SUMMATION POINT=  714.00      -45.000      -204.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2310  NODES (OF      17051  DEFINED) SELECTED FROM
2200  SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 510.0 LINE D

RESELECT    FOR ITEM=LOC  COMPONENT=X      BETWEEN -102.10      AND      510.10
KABS=  0.  TOLERANCE= 0.612200E-05

1740  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1650  ELEMENTS (OF      15348  DEFINED) SELECTED FROM
1740  SELECTED NODES BY  ENOD  COMMAND.

RESELECT    FOR ITEM=LOC  COMPONENT=X      BETWEEN  509.90      AND      510.10
KABS=  0.  TOLERANCE= 0.200000E-08

30  NODES (OF      17051  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=      0
MOMENT SUMMATION LOCATION=  510.000      -45.0000      -204.000

```

Appendix FC-2 to Calculation PGE-009-CALC-003

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

FX = 482339.9
FY = -553504.1
FZ = 218236.9
MX = 286146.0
MY = 5067080.
MZ = 3424845.

SUMMATION POINT= 510.00 -45.000 -204.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1740 NODES (OF 17051 DEFINED) SELECTED FROM
1650 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 306.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 306.10
KABS= 0. TOLERANCE= 0.408200E-05

1170 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1100 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1170 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 306.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 306.000 -45.0000 -204.000

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

FX = 372638.5
FY = -540619.4
FZ = 270975.8
MX = 834466.7
MY = 6802922.
MZ = -0.1750388E+08

SUMMATION POINT= 306.00 -45.000 -204.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1170 NODES (OF 17051 DEFINED) SELECTED FROM
1100 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 102.0 LINE B



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Appendix FC-2 to Calculation PGE-009-CALC-003

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10
KABS= 0. TOLERANCE= 0.204200E-05

600 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

550 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
600 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 102.000 -45.0000 -204.000

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

FX = 184299.7
FY = -539456.7
FZ = 191565.3
MX = 1479392.
MY = 5118581.
MZ = -0.4729576E+08

SUMMATION POINT= 102.00 -45.000 -204.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = -102.0 LINE A

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= -102.000 -45.0000 -204.000

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

FX = 465437.2
FY = 15091.18
FZ = -75542.73
MX = -737028.9
MY = 1693019.
MZ = 0.2051751E+08



Appendix FC-2 to Calculation PGE-009-CALC-003

SUMMATION POINT= -102.00 -45.000 -204.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = -102 to 102 Lines 7 to 8

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = -102 to 102

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -102.10 AND 102.10
KABS= 0. TOLERANCE= 0.204200E-05

2310 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

2200 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
2310 SELECTED NODES BY ENOD COMMAND.

Internal forces at x = 714.0 LINE E

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 713.90 AND 714.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 714.000 -45.0000 0.00000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 888709.3
FY = -613165.8
FZ = 190998.9
MX = -2215743.
MY = 3219004.



Appendix FC-2 to Calculation PGE-009-CALC-003

MZ = 0.3954428E+08

SUMMATION POINT= 714.00 -45.000 0.0000

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2310 NODES (OF 17051 DEFINED) SELECTED FROM
2200 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 510.0 LINE D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 510.10
KABS= 0. TOLERANCE= 0.612200E-05

1740 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1650 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1740 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 510.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 510.000 -45.0000 0.00000

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

FX = 489521.5
FY = -543951.2
FZ = 466054.2
MX = 719271.9
MY = 0.1311782E+08
MZ = 3587563.

SUMMATION POINT= 510.00 -45.000 0.0000

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1740 NODES (OF 17051 DEFINED) SELECTED FROM
1650 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 306.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 306.10
KABS= 0. TOLERANCE= 0.408200E-05

1170 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.



Appendix FC-2 to Calculation PGE-009-CALC-003

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

1100 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
1170 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 306.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 306.000 -45.0000 0.00000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 357939.3
FY = -530033.2
FZ = 536282.0
MX = 1372891.
MY = 0.1343847E+08
MZ = -0.1665954E+08

SUMMATION POINT= 306.00 -45.000 0.0000

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

1170 NODES (OF 17051 DEFINED) SELECTED FROM
1100 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 102.0 LINE B

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10
KABS= 0. TOLERANCE= 0.204200E-05

600 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

550 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
600 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 102.000 -45.0000 0.00000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 155164.7
FY = -511525.0
FZ = 392968.4



Appendix FC-2 to Calculation PGE-009-CALC-003

MX = 2596326.
MY = 8693138.
MZ = -0.4488244E+08

SUMMATION POINT= 102.00 -45.000 0.0000

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = -102.0 LINE A

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= -102.000 -45.0000 0.00000

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

FX = 449361.5
FY = 28879.31
FZ = -152488.5
MX = -3072808.
MY = 3710956.
MZ = 0.1970924E+08

SUMMATION POINT= -102.00 -45.000 0.0000

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

600 NODES (OF 17051 DEFINED) SELECTED FROM
550 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 222 Lines 8 to 10

Select all nodes in pad only

ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

9056 ELEMENTS (OF 15348 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

11550 NODES (OF 17051 DEFINED) SELECTED FROM
9056 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 222



Appendix FC-2 to Calculation PGE-009-CALC-003

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 222.10
KABS= 0. TOLERANCE= 0.120200E-05

255 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

160 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
255 SELECTED NODES BY ENOD COMMAND.

Internal forces at x = 714.0 LINE E

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 713.90 AND 714.10
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 714.000 -45.0000 162.000

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

FX = 588755.1
FY = -245544.6
FZ = 291212.0
MX = -2211281.
MY = 8563483.
MZ = 0.2745789E+08

SUMMATION POINT= 714.00 -45.000 162.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

255 NODES (OF 17051 DEFINED) SELECTED FROM
160 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 510.0 LINE D

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 510.10
KABS= 0. TOLERANCE= 0.612200E-05

195 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

120 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
195 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 510.10
KABS= 0. TOLERANCE= 0.200000E-08



Appendix FC-2 to Calculation PGE-009-CALC-003

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 510.000 -45.0000 162.000

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

FX = 383101.1
FY = -214393.6
FZ = 360683.4
MX = 2906636.
MY = 0.1096028E+08
MZ = 5553403.

SUMMATION POINT= 510.00 -45.000 162.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

195 NODES (OF 17051 DEFINED) SELECTED FROM
120 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 306.0 LINE C

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 306.10
KABS= 0. TOLERANCE= 0.408200E-05

135 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

80 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
135 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 306.10
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 306.000 -45.0000 162.000

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

FX = 178376.0
FY = -227786.0
FZ = 362329.1
MX = 4120781.
MY = 9478483.
MZ = -4899126.

SUMMATION POINT= 306.00 -45.000 162.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.



Appendix FC-2 to Calculation PGE-009-CALC-003

135 NODES (OF 17051 DEFINED) SELECTED FROM
80 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = 102.0 LINE B

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10
KABS= 0. TOLERANCE= 0.204200E-05

75 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

40 ELEMENTS (OF 15348 DEFINED) SELECTED FROM
75 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 101.90 AND 102.10
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= 102.000 -45.0000 162.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = -54500.00
FY = -147427.7
FZ = 292706.7
MX = 3565063.
MY = 5851108.
MZ = -0.2200143E+08

SUMMATION POINT= 102.00 -45.000 162.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

75 NODES (OF 17051 DEFINED) SELECTED FROM
40 SELECTED ELEMENTS BY NELE COMMAND.

Internal forces at x = -102.0 LINE A

RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND -101.90
KABS= 0. TOLERANCE= 0.200000E-08

15 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

NODE FOR MOMENT SUMMATION= 0
MOMENT SUMMATION LOCATION= -102.000 -45.0000 162.000

***** SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES *****
FX = 319615.2



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Appendix FC-2 to Calculation PGE-009-CALC-003

FY = -51084.03
FZ = -169810.8
MX = 1375007.
MY = 4910569.
MZ = 0.1551849E+08

SUMMATION POINT= -102.00 -45.000 162.00

15348 ELEMENTS (OF 15348 DEFINED) SELECTED BY EALL COMMAND.

17051 NODES (OF 17051 DEFINED) SELECTED BY NALL COMMAND.

EXIT THE ANSYS POST1 DATABASE PROCESSOR

***** ROUTINE COMPLETED ***** CP = 59.345

*** NOTE *** CP= 59.345 TIME= 17:16:05
A total of 2 warnings and errors written to dcslabs9.err.