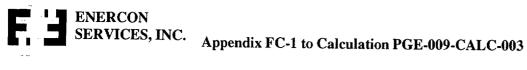
\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 436429.4FY = -336050.5FZ = 595729.0 MX = 7532480. MY = -8486133.MZ = -8528200. SUMMATION POINT= 204.00 -45.000 102.00 ALL NODES HAVING ANY ELEMENT IN ELEMENT SET. SELECT 17051 DEFINED) SELECTED FROM 2950 NODES (OF 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. ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET. SELECT 15348 DEFINED) SELECTED FROM 2240 ELEMENTS (OF 2375 SELECTED NODES BY ENOD COMMAND. AND -101.90 FOR ITEM=LOC COMPONENT=Z BETWEEN -102.10 RESELECT 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 = 233902.0FY = -332032.6FZ = 580897.4 MX = 3685275. MY = -1227042.MZ = -5426102.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.

FOR ITEM=LOC COMPONENT=Z BETWEEN -306.10 AND -305.90 RESELECT 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 = 67944.89 FY = -342727.8FZ 497440.9 = 5575850. MX = MY = 3372176.

MZ = -5094013.

SUMMATION POINT= 204.00 -45.000 -306.00

ALL NODES HAVING ANY ELEMENT IN ELEMENT SET. SELECT

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.

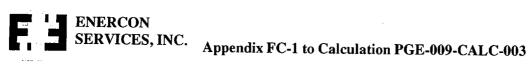
FOR ITEM=LOC COMPONENT=Z BETWEEN -510.10 AND -509.90 RESELECT KABS= 0. TOLERANCE= 0.200000E-08

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

NODE FOR MOMENT SUMMATION= 0

#### ENERCON SERVICES, INC. Appendix FC-1 to Calculation PGE-009-CALC-003 MOMENT SUMMATION LOCATION= 204.000 -45.0000 -510.000 \*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = -86956.31FY = -369445.6FZ = 350563.8 MX = 0.1262482E+08MY = 6090383. MZ = -7138586. 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 = -250785.5FY = -413725.7124277.2 FZ = MX = 0.2554487E+08MY = 7742754. MZ = -0.1282578E+08SUMMATION 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

FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -917.90 RESELECT 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 = -327994.5FY = -92138.94 FZ = -211155.3 MX = 0.1114411E+08 MY = 0.1120237E+08

MZ = -6189428.

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 = -339306.5FY = -48874.54FZ = -325451.8MX = 0.1673530E+08MY = 0.1142815E+08MZ = -0.1021985E+08-45.000 -978.00 SUMMATION POINT= 204.00 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 = 393908.4FY = -27625.46380053.7 FZ = MX = -0.1737277E + 08MY = 0.1056830E+08MZ = 0.1021985E+08~1038.0 SUMMATION POINT= 204.00 -45.000 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.

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RESELECT FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 510.10

select strip Z direction

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 = 481467.3 FY = -347014.5FZ = 693900.9 MX = -0.3128722E+08MY = -0.1357632E + 08MZ = 6620628. 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 FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 162.10 RESELECT 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=0MOMENT SUMMATION LOCATION=408.000-45.0000162.000

\*\*\*\*\* SUMMATION OF TOTAL
FX = 454140.1
FY = -365986.1
FZ = 589799.9
MX = -0.1071187E+08
MY = -0.1272872E+08
MZ = -2499710.
FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

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=0MOMENT SUMMATION LOCATION=408.000-45.0000102.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 510213.7 FY = -333260.7 FZ = 571757.3 MX = 7168576. MY = -9946167. MZ = -6055938. SUMMATION POINT= 408.00 -45.000 102.00

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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 FX = 393159.1 FY = -318752.4 FZ = 414353.1 MX = 3172163. MY = -5895126. MZ = -4362875. FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

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= Ο MOMENT SUMMATION LOCATION= 408.000 -45.0000 -306.000 \*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 229771.9FY = -325679.1FZ = 236264.7MX = 3587737.MY = -554815.5MZ = -4300074. 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. 15348 DEFINED) SELECTED FROM 1140 ELEMENTS (OF 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 \*\*\*\*\* 75107.05 FX = FY = -339731.5FZ = 84504.20 MX = 7999275. MY = 3388831. MZ = -5246242.

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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 FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -713.90 RESELECT 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. FOR ITEM=LOC COMPONENT=Z RESELECT 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 = -107454.7FY = -348294.6FZ = -44466.38MX = 0.1796282E+08MY = 5955254. MZ = -7712133.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 = -307339.6FY = -120453.4

FZ = -241788.9MX = 0.1003953E+08MY = 0.1058288E+08MZ = -4207191.

SUMMATION POINT= 408.00 -45.000 -918.00

ALL NODES HAVING ANY ELEMENT IN ELEMENT SET. SELECT

> 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 = -376769.9FY = -59465.59FZ = -340128.2 MX = 0.1673137E+08MY = 0.1240956E+08

# MZ = -0.1003335E+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.

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

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 431371.8 FY = -17034.41 FZ = 394730.0 MX = -0.1800431E+08 MY = 0.1183470E+08 MZ = 0.1003335E+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.

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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 = 582184.2
FY = -396089.4
FZ = 761310.9
MX = -0.3628073E+08
MY = -0.2117168E+08
MZ = 4293024.

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 = 492156.5 FY = -438809.3



FZ = 643615.5 MX = -0.1697415E+08 MY = -0.1870087E+08 MZ = -7260823. 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 = 538966.9FY = -462440.7FZ =573564.0 MX = 2584175. MY = -0.1341567E+08MZ = -0.1493565E+08SUMMATION 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.

ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET. SELECT

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

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

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

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

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 453021.6FY = -426063.3FZ = 258937.1 MX = -393060.1MY = -7517939.MZ = -0.1096409E+08

-45.000 -102.00 SUMMATION POINT= 612.00

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.

FOR ITEM=LOC COMPONENT=Z BETWEEN -306.10 AND -305.90 RESELECT 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 \*\*\*\*\*



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FX = 357149.2 FY = -426967.3FZ = -54653.00 MX = -881509.9MY = -2986928.MZ = -0.1052545E+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

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 = 275920.2FY = -440479.3

FZ = -282309.1MX = 1976080.MY = 231846.9MZ = -0.1150639E+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. ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET. SELECT 590 ELEMENTS (OF 15348 DEFINED) SELECTED FROM 650 SELECTED NODES BY ENOD COMMAND. FOR ITEM=LOC COMPONENT=Z BETWEEN -714.10 AND -713.90 RESELECT 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 = 187245.8FY = -441522.9FZ = -436876.9MX = 9904902. MY = 4471110.MZ = -0.1420054E+08SUMMATION 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

BETWEEN -1038.1 AND -917.90 FOR ITEM=LOC COMPONENT=Z RESELECT 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.

FOR ITEM=LOC COMPONENT=Z BETWEEN -918.10 AND -917.90 RESELECT 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 = -30138.74 FY = -214609.5 FZ = -453791.5 MX = 5127026.

- MY = 0.1274768E+08
- MZ = -8098870.

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=0MOMENT SUMMATION LOCATION=612.000-45.0000-978.000

\*\*\*\*\* SUMMATION OF TOTAL FX = -252432.9 FY = -135785.9 FZ = -417498.0 MX = 0.1412183E+08 MY = 0.1369547E+08 MZ = -0.1450206E+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 -45.0000 -1038.00 MOMENT SUMMATION LOCATION= 612.000 \*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 307034.8FY = 59285.88 FZ = 472099.8 MX = -0.1997399E+08 MY = 3088566.MZ = 0.1450206E+08SUMMATION 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. ALL NODES HAVING ANY ELEMENT IN ELEMENT SET. SELECT 17051 DEFINED) SELECTED FROM 11550 NODES (OF 9056 SELECTED ELEMENTS BY NELE COMMAND. select strip x direction z = -1038 to -918 Lines 1 to 3 FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -917.90 RESELECT KABS= 0. TOLERANCE= 0.120200E-05 255 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND. SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET. 15348 DEFINED) SELECTED FROM 160 ELEMENTS (OF 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

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#### ENERCON SERVICES, INC. Appendix FC-1 to Calculation PGE-009-CALC-003 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 = 372672.8FY = -126085.4FZ = 89068.79 MX = -3002905. MY = 490145.7MZ = 0.1551084E+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 = 426120.8FY = -138189.2FZ = -197779.2 MX = 2032550.MY = -8306615.MZ = -1335521.

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 = 325232.6 FY = -99115.82 FZ = -204269.4 MX = 3869639. MY = -7149878. MZ = -0.1224721E+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.

#### ENERCON SERVICES, IN

SERVICES, INC. Appendix FC-1 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 -978.000 \*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 125910.2FY = -19847.13FZ = -175615.3MX = 3889033.MY = -5471833.MZ = -0.1624330E+08SUMMATION 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 = 157191.1 FY = -59518.01 FZ = 284992.1 MX = -9162802.MY = -5946911.MZ = 8290350. 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

#### ENERCON

SERVICES, INC. Appendix FC-1 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.

ALL NODES HAVING ANY ELEMENT IN ELEMENT SET. SELECT

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.

ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET. SELECT

15348 DEFINED) SELECTED FROM 2200 ELÉMENTS (OF 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 -45.0000 -816.000 MOMENT SUMMATION LOCATION= 714.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 579981.9FY = -470689.4FZ = 287520.0MX = 7337474.

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MY = 0.1054480E+08
MZ = 0.2609979E+08
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SUMMATION POINT= 714.00 -45.000 -816.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

17051 DEFINED) SELECTED FROM 2310 NODES (OF 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 = 402216.1FY = -454611.2FZ = -112357.8

- MX = 9194374.
- MY = -5963316.
- MZ = -2050754.

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 = 362866.4FY = -468289.3FZ = -275098.0MX = 0.1425097E+08MY = -0.1045852E+08MZ = -0.1989480E+08-45.000 SUMMATION POINT= 306.00 -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 FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10 RESELECT KABS= 0. TOLERANCE= 0.204200E-05 600 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND. ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET. SELECT 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 \*\*\*\*\* 190055.7 FX = FY = -344044.0FZ = -294123.7MX = 0.1513050E + 08MY = -8938915.MZ = -0.3239949E+08SUMMATION 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.

#### **ENERCON EXERCISE** SERVICES, INC. Appendix FC-1 to Calculation PGE-009-CALC-003 Internal forces at x = -102.0 LINE A FOR ITEM=LOC COMPONENT=X RESELECT 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 = 282957.4FY = 5109.299 FZ = 414153.4 MX = -1308150. MY = -9991978. MZ = 0.1240344E+08SUMMATION 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 -510RESELECT 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.

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#### ENERCON SERVICES, INC. Appendix FC-1 to Calculation PGE-009-CALC-003 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 -45.0000 -612.000 MOMENT SUMMATION LOCATION= 714.000 \*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 652000.5FY = -520256.2FZ = 356907.4 MX = 2426660.MY = 0.1056090E + 08MZ = 0.2929789E+08SUMMATION 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. ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET. SELECT 15348 DEFINED) SELECTED FROM 1650 ELEMENTS (OF 1740 SELECTED NODES BY ENOD COMMAND. BETWEEN 509.90 AND 510.10 FOR ITEM=LOC COMPONENT=X RESELECT 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 = 351133.6 FY = -411374.9

FZ = 97629.70MX = 6431297. MY = 2695688.

MZ = -345760.3

SUMMATION POINT= 510.00 -45.000 -612.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

ENERCON SERVICES, INC. Appendix FC-1 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 -612.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 283100.0 FY = -402202.2 FZ = -92982.54 MX = 8525877.

MY = -3084044. MZ = -0.1450222E+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= Ο MOMENT SUMMATION LOCATION= 102.000 -45.0000 -612.000 \*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 149032.7FY = -448914.2FZ = -186364.8MX = 0.1530516E+08MY = -5912559. MZ = -0.3191501E+08SUMMATION 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 = 318363.9FY = -14885.93FZ = 396234.8 MX = -4079110.MY = -9790157.MZ = 0.1434655E+08SUMMATION 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

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=0MOMENT SUMMATION LOCATION=714.000-45.0000-408.000

\*\*\*\*\* SUMMATION OF TOTAL FX = 662870.6 FY = -518256.1 FZ = 408110.0 MX = 528205.3 MY = 0.1120748E+08 MZ = 0.2970300E+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.

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.

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

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 360781.5FY = -397071.8

FZ = 235525.3 MX = 5072164.MY = 6084385. MZ = 325408.4

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 = 272998.1FY = -378308.6FZ = 79109.11 MX = 5698223.

- MY = 2129813. MZ = -0.1135144E+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 = 117906.9FY = -424565.3FZ = -85635.81 MX = 8131971. MY = -2687090.MZ = -0.2728499E+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

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 340419.3 FY = 96.84171 FZ = 372175.4 MX = -2914507.MY = -9906546. MZ = 0.1530822E+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.

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### **ENERCON**

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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 FOR ITEM=LOC COMPONENT=X BETWEEN 713.90 AND 714.10 RESELECT 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 = 640137.2FY = -507140.7 FZ = 460769.5 MX = -257742.5MY = 0.1205493E+08MZ = 0.2858011E+08SUMMATION 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

****	S	UMMATION OF	TOTAL	FORCES	AND	MOMENTS	IN	GLOBAL	COORDINATES	* * * * *
FX	=	346793.6								
FY	=	-387703.4								
FZ	=	375271.2								

- MX = 4770131.
- MY = 8950582.
- MZ = 397699.8

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.

ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET. SELECT

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 = 257121.5FY = -362465.7

FZ = 249721.8 MX = 5548053. MY 5760850. = = -9854861. ΜZ

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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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 = 108262.3FY = -382497.5FZ = 21193.75MX = 7618139.MY = 350235.9 ΜZ = -0.2396662E+08

SUMMATION POINT= 102.00 -45.000 -204.00

ALL NODES HAVING ANY ELEMENT IN ELEMENT SET. SELECT

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 = 338346.4FY = 13915.65 333953.9 FZ =MX = -2301051. MY = -9251310. MZ = 0.1499074E+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.

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 = 589822.8FY = -493633.2FZ = 526633.9 MX = -549.6376MY = 0.1333313E+08 MZ = 0.2621004E+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 = 275615.2FY = -379997.3FZ = 493497.6 MX = 5378780.MY = 0.1038794E+08MZ = 263963.5

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 = 126084.6FY = -353165.3FZ = 423122.2 MX = 6769268. MY = 6503418. MZ = -8168614. 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. ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET. SELECT 550 ELEMENTS (OF 15348 DEFINED) SELECTED FROM 600 SELECTED NODES BY ENOD COMMAND. FOR ITEM=LOC COMPONENT=X BETWEEN 101.90 AND 102.10 RESELECT 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 = 33846.31FY = -350581.2FZ = 177115.4 MX = 0.1002291E+08

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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 FX = 325587.2 FY = 20970.25 FZ = 291348.9 MX = -3573755. MY = -8294771. FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*

MZ = 0.1423910E+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

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 = 366056.5

FY = -215619.2FZ = 465202.5

MX = -8375929.

MY = 0.1133846E+08

MZ = 0.1845773E+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

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

FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 510.10 RESELECT 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 = 86547.24 FY = -147402.2FZ = 275969.5 MX = 1274133. MY 6470505. -MZ = 3755967. 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 = -99190.16FY = -146313.1FZ = 263106.7 MX = 2335685. MY = 5232621. MZ = 228578.2SUMMATION POINT= 306.00 -45.000 162.00 SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

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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 = -248825.0

FY = -157283.3 FZ = 204908.3 MX = 5498671. MY = 1669785. MZ = -4749089.

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 = 282880.2 FY = 33424.51

FZ = 119800.7 MX = -0.1035847E+08MY = -477229.4MZ = 0.1248015E+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. USE LOAD STEP 5 SUBSTEP 0 FOR LOAD CASE 0 SET COMMAND GOT LOAD STEP= 5 SUBSTEP= 1 CUMULATIVE ITERATION= 34 TIME/FREQUENCY= 5.0000 TITLE= Pad, HE(1), 20 Casks, 515 Kips N 57.07 W (Z,X), Soft Rock 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 FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND RESELECT 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 = 372426.6FY = -247620.1FZ = 500694.4MX = -0.1973114E+08MY = -8143396. MZ = -48720.72SUMMATION 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. ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET. SELECT 15348 DEFINED) SELECTED FROM 2810 ELEMENTS (OF 2975 SELECTED NODES BY ENOD COMMAND. BETWEEN 161.90 AND 162.10 RESELECT FOR ITEM=LOC COMPONENT=Z 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 = 204406.5FY = -275731.4FZ = 592301.0 MX = -6523518.MY = 3179296. MZ = -0.1390337E+08SUMMATION POINT= 0.0000 -45.000 162.00

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# ENERCON SERVICES, INC. Appendix FC-1 to Calculation PGE-009-CALC-003 **ENERCON**

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

17051 DEFINED) SELECTED FROM 2975 NODES (OF 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.

FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 102.10 RESELECT 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 = 185218.5 FY = -263575.7FZ = 715855.1 MX = 6524561. MY = 7009774.MZ = -0.2115697E+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=0MOMENT SUMMATION LOCATION=0.00000-45.0000-102.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\*
FX = 36376.25
FY = -315591.3
FZ = 874679.0
MX = 5162040.
MY = 8529832.
MZ = -0.1200730E+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 = -63343.68 FY = -346784.8 FZ = 846869.9 MX = 8720461. MY = 0.1000835E+08 MZ = -9751472.

SUMMATION POINT= 0.0000 -45.000 -306.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

17051 DEFINED) SELECTED FROM 1800 NODES (OF 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.

FOR ITEM=LOC COMPONENT=Z BETWEEN -510.10 AND -509.90 RESELECT 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 = -157491.8FY = -354245.7FZ = 690845.5 MX = 0.1552558E+08 MY = 0.1129569E+08MZ = -0.1071597E + 08

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.

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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 = -252564.0FY = -293555.6FZ = 378041.6 MX = 0.2148021E+08 MY = 0.1096565E+08MZ = -0.1002893E+08SUMMATION 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 = -326966.6FY = -118617.0FZ = -137703.6MX = 8640674.



MY = 9895962. MZ = 1889516.

SUMMATION POINT= 0.0000 -45.000 -918.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

> 17051 DEFINED) SELECTED FROM 75 NODES (OF 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 = -346374.0FY = -49071.88FZ = -271218.4MX = 0.1461473E+08MY = 9931777. MZ = -9334373.

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 = 411207.7FY = -27428.12FZ = 313197.7 MX = -0.1526405E+08MY = 0.1279567E+08MZ = 9334373. 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. ALL NODES HAVING ANY ELEMENT IN ELEMENT SET. SELECT 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. ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET. SELECT 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= 0 222.000 MOMENT SUMMATION LOCATION= 204.000 -45.0000 \*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 547646.0

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FY = -318496.1FZ = 540664.8 MX = -0.2459697E+08MY = -0.1625521E+08MZ = 4418094. 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 = 502113.9 FY = -315240.4FZ = 480352.4 MX = -7340447.MY = -0.1456759E+08MZ = -6758408. 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.

FOR ITEM=LOC COMPONENT=Z RESELECT 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 = 535617.5 FY = -278920.0FZ = 490373.6 MX = 7092327. MY = -0.1037791E+08MZ = -0.1083627E + 08

SUMMATION POINT= 204.00 -45.000 102.00

ALL NODES HAVING ANY ELEMENT IN ELEMENT SET. SELECT

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 = 311565.2 FY = -268302.1FZ = 521455.3 MX = 4810041.MY = -2402585. MZ = -7187302.SUMMATION POINT= 204.00 -45.000 -102.00 ALL NODES HAVING ANY ELEMENT IN ELEMENT SET. SELECT 2375 NODES (OF 17051 DEFINED) SELECTED FROM 2240 SELECTED ELEMENTS BY NELE COMMAND. Internal forces at Z = -306.0 LINE 6 FOR ITEM=LOC COMPONENT=Z RESELECT 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. FOR ITEM=LOC COMPONENT=Z BETWEEN -306.10 AND -305.90 RESELECT 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 = 106962.5FY = -275774.9FZ = 473106.4 MX = 6222828.MY = 3252877.MZ = -6589292. SUMMATION POINT= 204.00 -45.000 -306.00 SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET. 17051 DEFINED) SELECTED FROM 1800 NODES (OF 1690 SELECTED ELEMENTS BY NELE COMMAND. Internal forces at Z = -510.0 LINE 5

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

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

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

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

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = -86591.22FY = -295109.5FZ = 354621.2 MX = 0.1113508E+08MY = 6543862. MZ = -7357824.

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

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MOMENT SUMMATION LOCATION= 204.000 -45.0000 -714.000 \*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = -291553.4FY = -302758.0FZ = 158280.0MX = 0.1938274E+08 MY = 8542127. MZ = -0.1098234E+08SUMMATION POINT= 204.00 -45,000 -714,00 ALL NODES HAVING ANY ELEMENT IN ELEMENT SET. SELECT 650 NODES (OF 17051 DEFINED) SELECTED FROM 590 SELECTED ELEMENTS BY NELE COMMAND. Internal forces at Z = -918.0 LINE 3 FOR ITEM=LOC COMPONENT=Z RESELECT 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 = -397187.4FY = -73319.26FZ = -143957.0MX = 9219277.MY = 0.1332036E+08MZ = -4555737.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.

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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 = -418516.8 FY = -39725.62 FZ = -245946.5 MX = 0.1329712E+08 MY = 0.1383330E+08

MZ = -0.1066020E + 08

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 = 483350.5 FY = -36774.38 FZ = 287925.9 MX = -0.1338565E+08 MY = 0.1322272E+08

MZ = 0.1066020E+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

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

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

ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET. SELECT

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 = 572117.2 FY = -303038.8 FZ = 564231.3 MX = -0.2551193E+08 MY = -0.1620897E+08MZ = 7651900. SUMMATION POINT= 408.00 -45.000 222.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

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

Internal forces at Z = 162.0 LINE 9

FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND 162.10 RESELECT 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.

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

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

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

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 531630.5FY = -308980.2FZ = 480969.8MX = -8158849.

MY = -0.1493264E+08MZ = -3338021.

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

ENERCON SERVICES, INC. Appendix FC-1 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= 408.000 -45.0000 102.000 \*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 588353.8 FY = -275781.1= 461399.7 FZMX = 6608839. MY = -0.1140648E+08MZ = -7593811.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 FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -101.90 RESELECT 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. FOR ITEM=LOC COMPONENT=Z RESELECT 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 = 426586.9FY = -251966.1 FZ = 326172.7 MX = 3973422. MY = -5850982.MZ = -5316221.

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= Ω MOMENT SUMMATION LOCATION= 408.000 -45.0000 -306.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 227748.0FY = -256456.7FZ = 171234.9 MX = 3842488. MY = 319653.9 MZ = -5093986.

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

FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -509.90 RESELECT 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 = 38687.61 FY = -265631.1FZ = 53375.38MX = 6744046. MY = 4767408. MZ = -5597265. 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 = -176633.9FY = -257698.9FZ = -25643.47MX = 0.1272899E+08 MY = 7738960. MZ = -7157213.

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 = -394883.5FY = -119869.8FZ = -170374.6MX = 6553221. MY = 0.1320550E+08 MZ = -2187472.

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

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

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

SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

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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 = -474810.3FY = -56626.69 FZ = -250691.5MX = 0.1248338E+08 MY = 0.1528524E+08MZ = -0.1038377E+08SUMMATION POINT= 408.00 -45.000 -978.00 ALL NODES HAVING ANY ELEMENT IN ELEMENT SET. SELECT 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. 0 NODE FOR MOMENT SUMMATION= MOMENT SUMMATION LOCATION= 408.000 -45.0000 -1038.00 \*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 539644.0FY = -19873.31FZ = 292670.9 MX = -0.1358598E+08MY = 0.1514839E+08MZ = 0.1038377E+08SUMMATION 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

SERVICES, INC. Appendix FC-1 to Calculation PGE-009-CALC-003

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### ENERCON SERVICES, INC.

# SERVICES, INC. Appendix FC-1 to Calculation PGE-009-CALC-003

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 = 635099.2
FY = -340404.6
FZ = 620783.9
MX = -0.3034681E+08
MY = -0.2146674E+08
MZ = 5989652.

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.

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### SERVICES, INC. Appendix FC-1 to Calculation PGE-009-CALC-003 SELECT ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET. 2810 ELEMENTS (OF 15348 DEFINED) SELECTED FROM 2975 SELECTED NODES BY ENOD COMMAND. FOR ITEM=LOC COMPONENT=Z BETWEEN 161.90 AND 162.10 RESELECT 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 = 502237.4FY = -375238.8FZ = 493940.8MX = -0.1428027E+08MY = -0.1636813E+08MZ = -7624042.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

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MOMENT SUMMATION LOCATION= 612.000 -45.0000 102.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 537178.3FY = -399808.0

FZ = 402742.6MX = 2220029. MY = -0.1074861E+08

MZ = -0.1617907E + 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.

FOR ITEM=LOC COMPONENT=Z BETWEEN -102.10 AND -101.90 RESELECT 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 = 421655.3FY = -345651.3FZ = 96470.03 372198.6 MX = MY = -5237405. MZ = -0.1087897E+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

BETWEEN -1038.1 AND -305.90 RESELECT FOR ITEM=LOC COMPONENT=Z 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

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

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

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 309992.3 FY = -342787.9 FZ = -184068.8 MX = -685039.8 MY = -853698.2 MZ = -0.1016323E+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

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 \*\*\*\*\* ENERCON SERVICES, INC. Appendix FC-1 to Calculation PGE-009-CALC-003 FX = 211209.0 FY ≃ -349587.8 FZ = -362607.2MX = 1317446.MY = 2463226. MZ = -0.1047072E + 08SUMMATION 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 FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -713.90 RESELECT 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. BETWEEN -714.10 AND -713.90 FOR ITEM=LOC COMPONENT=Z RESELECT KABS= 0. TOLERANCE= 0.200000E-08 25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND. NODE FOR MOMENT SUMMATION= 0 -45.0000 -714.000 MOMENT SUMMATION LOCATION= 612.000 \*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 102712.8FY = -336964.9

FZ = -446218.9 MX = 6974362. MY = 6683809.MZ = -0.1099782E+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 = -127479.6FY = -160367.3FZ = -372712.2MX = 1536800. MY = 0.1532401E+08MZ = -1536702. 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

ENERCON SERVICES, INC. Appendix FC-1 to Calculation PGE-009-CALC-003 \*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = -367193.5FY = -126339.8FZ = -306845.3MX = 8396794. MY = 0.1668456E+08MZ = -0.1463479E+08SUMMATION 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 = 432027.2FY = 49839.78 FZ = 348824.7 MX = -0.1368218E+08MY = 7292065. MZ = 0.1463479E+08SUMMATION 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. ALL NODES HAVING ANY ELEMENT IN ELEMENT SET. SELECT

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=0MOMENT SUMMATION LOCATION=714.000-45.0000-978.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 450218.2 FY = -177632.8 FZ = -2206.686 MX = -1994095. MY = -1643166.

MZ = 0.1969435E+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

SERVICES, INC. Appendix FC-1 to Calculation PGE-009-CALC-003

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 = 444533.5FY = -182106.0FZ = -262850.9MX = -88054.42

MY = -9800416.MZ = -136071.8

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 = 314728.3 FY = -142077.6 FZ = -259809.8MX = 2659774. MY = -8264732. MZ = -0.1396103E+08SUMMATION POINT= 306.00 -45.000 -978.00

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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

FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10 RESELECT 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 = 94083.52 FY = -38764.75 FZ = -212478.5 2910826. MX = MY = -5798898.MZ = -0.1952999E+08

SUMMATION POINT= 102.00 -45.000 -978.00

ALL NODES HAVING ANY ELEMENT IN ELEMENT SET. SELECT

> 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 \*\*\*\*\*

SERVICES, INC. Appendix FC-1 to Calculation PGE-009-CALC-003 FX = 203417.3FY = -61454.82FZ = 267280.1 MX = -7647215.MY = -5889659. MZ = 0.1039021E+08-978.00 SUMMATION POINT= -102.00 -45.000 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 -714RESELECT 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

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\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 679589.6FY = -528401.6FZ = 174325.1

- MX = 4991701.
- MY = 7144726. MZ = 0.3036360E+08

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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.

FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 510.10 RESELECT 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 = 443411.7FY = -491581.4FZ = -221207.1 MX = 6193638.

MY = -8740864. MZ = -879857.2

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 = 380706.4FY = -526190.2FZ = -366025.2MX = 0.1013462E+08MY = -0.1219285E+08 MZ = -0.2265341E+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 = 200348.1FY = -399797.3FZ = -333223.2 MX = 0.1221796E+08 MY = -9408773. MZ = -0.3903906E+08SUMMATION 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 FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND -101.90 RESELECT 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 = 342100.4FY = 16576.65 361516.9 FZ = MX = -571890.5MY = -8605548. MZ = 0.1495782E+08SUMMATION 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.

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

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 749805.1FY = -577059.1FZ = 252724.1 1936133. MX = MY 7715325. = MZ = 0.3357367E+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.

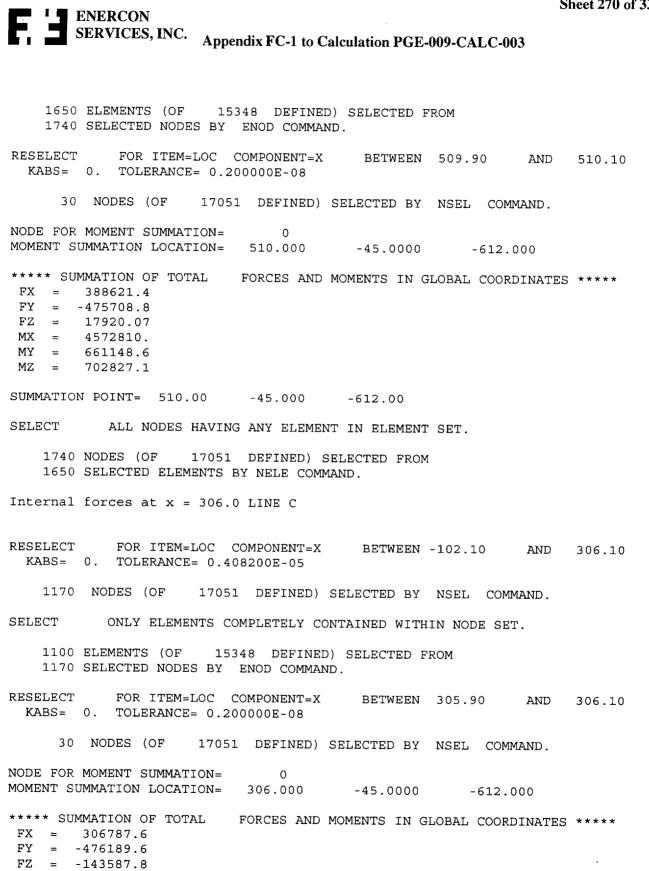
Internal forces at x = 510.0 LINE D

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.

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MX = 6563830.

MY = -4281903. MZ = -0.1722569E+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 = 170344.4FY = -482380.7FZ = -190164.7MX = 0.1231522E+08MY = -5781391.

MZ = -0.4008294E+08

SUMMATION POINT= 102.00 -45.000 ~612.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

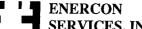
600 NODES (OF 17051 DEFINED) SELECTED FROM 550 SELECTED ELEMENTS BY NELE COMMAND.

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.

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NODE FOR MOMENT SUMMATION= 0 MOMENT SUMMATION LOCATION= -102.000 -45.0000 -612.000 \*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 379049.4FY = -3860.083FZ = 320373.4 MX = -3475018. MY = -7719435. MZ = 0.1690421E+08SUMMATION 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 -306RESELECT 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. ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET. SELECT 2200 ELEMENTS (OF 15348 DEFINED) SELECTED FROM 2310 SELECTED NODES BY ENOD COMMAND. Internal forces at x = 714.0 LINE E FOR ITEM=LOC COMPONENT=X BETWEEN 713.90 AND 714.10 RESELECT KABS= 0. TOLERANCE= 0.200000E-08

SERVICES, INC. Appendix FC-1 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 -408.000 \*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 763680.1FY = -579257.1FZ = 314256.4 MX = 397546.6 MY = 8608397.MZ = 0.3417791E+08SUMMATION 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. FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 510.10 RESELECT 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 = 396899.0 FY = -465942.1FZ = 187107.5 MX = 3849831. MY = 4782877.MZ = 1401693.SUMMATION POINT= 510.00 -45.000 -408.00 ALL NODES HAVING ANY ELEMENT IN ELEMENT SET. SELECT

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

Internal forces at x = 306.0 LINE C

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

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

ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET. SELECT

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 = 291855.6 FY = -459813.0FZ = 69206.14 MX = 4873515. MY = 1757005.

MZ = -0.1410978E+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

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

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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 = 139189.6FY = -539144.8FZ = -51701.48MX = 9944045.

MY = -1897316. MZ = -0.3592488E+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.

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

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 403341.2FY = 4613.944 FZ = 277794.1 MX = -3031629. MY = -7209782. MZ = 0.1799554E+08SUMMATION 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

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### **ENERCON**

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ESEL FOR LABEL= TYPE FROM 1 TO 1 BY 1

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

ALL NODES HAVING ANY ELEMENT IN ELEMENT SET. SELECT

17051 DEFINED) SELECTED FROM 11550 NODES (OF 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 = 739446.9FY = -568508.7FZ = 376893.5 MX = -459276.4MY = 9635943.

MZ = 0.3300884E+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

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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 -204.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 380446.0FY = -456362.1FZ = 356216.1 MX = 3755518. MY = 8420184. MZ = 1600167.

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

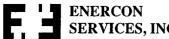
30 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND.

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

SERVICES, INC. Appendix FC-1 to Calculation PGE-009-CALC-003

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

FX = 275914.2FY = -441811.8FZ = 278643.7 MX = 4893852.MY = 6553085. MZ = -0.1210888E + 08SUMMATION 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 = 118952.8 FY = -531133.1FZ = 82876.11 MX = 8840377. MY = 1648037.MZ = -0.3204464E+08SUMMATION 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 = 403757.7FY = 15376.34 FZ = 227029.5 MX = -3133057.MY = -6242879. MZ = 0.1784451E+08SUMMATION 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 102RESELECT 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

### **ENERCON** SERVICES, INC. Appendix FC-1 to Calculation PGE-009-CALC-003

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 = 680606.6FY = -546883.5FZ = 452991.9 MX = -451564.6MY = 0.1101286E+08MZ = 0.3024624E+08SUMMATION 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 = 327981.0FY = -445651.8FZ = 517432.0MX = 4369217. MY = 0.1186747E+08MZ = 1638774.

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 = 170069.0FY = -424563.1FZ = 488526.5 MX = 6034005. MY = 9061353. MZ = -9714659.

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 = 41416.13FY = -471288.9FZ = 258465.9 MX = 0.1017094E+08 MY = 3314241.MZ = -0.2688235E+08SUMMATION 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 = 393857.6 FY = 27793.14 FZ = 170441.4MX = -5112881.MY = -4822522. MZ = 0.1719226E+08SUMMATION 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.

ALL NODES HAVING ANY ELEMENT IN ELEMENT SET. SELECT

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 = 432651.6FY = -232477.5FZ = 432438.0 MX = -6805659. MY = 0.1094843E+08 MZ = 0.2125530E+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.

ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET. SELECT

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

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

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

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

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 165084.5FY = -171680.0

- FZ = 316274.0 MX = 1869120.
- MY = 8166040.
- MZ = 4643853.

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.

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

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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 = -42160.91FY = -176362.8FZ = 309642.9MX = 3174276. MY = 6814094. MZ = -51248.08SUMMATION 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. FOR ITEM=LOC COMPONENT=X BETWEEN 101.90 AND 102.10 RESELECT 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 = -225013.4FY = -201103.9FZ = 249146.1 MX = 7037927.MY = 3090900. MZ = -7807333.SUMMATION POINT= 102.00 -45.000 162.00 SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

ENERCON **F** SERVICES, INC. Appendix FC-1 to Calculation PGE-009-CALC-003 75 NODES (OF 17051 DEFINED) SELECTED FROM 40 SELECTED ELEMENTS BY NELE COMMAND. Internal forces at x = -102.0 LINE A FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND -101.90 RESELECT 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 = 315633.4FY = 954.8287 FZ = 32545.15 MX = -7518380.MY = 1119508.MZ = 0.1456752E+08SUMMATION 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. USE LOAD STEP 6 SUBSTEP 0 FOR LOAD CASE 0 SET COMMAND GOT LOAD STEP= 6 SUBSTEP= 1 CUMULATIVE ITERATION= 42 TIME/FREQUENCY= 6.0000 TITLE= Pad, HE(1), 20 Casks, 515 Kips West (W), Soft Rock 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 = 475682.6FY = ~89381.62 FZ = 38588.60 MX = 983130.0 MY = -0.1262988E+08MZ = 7173186.

SUMMATION POINT= 0.0000 -45.000 222.00

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

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

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=0MOMENT SUMMATION LOCATION=0.000000-45.0000162.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 376561.3 FY = -65182.11 FZ = 174216.5 MX = 4598607. MY = -6428789.

MZ = -0.1063462E+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.

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=0MOMENT SUMMATION LOCATION=0.00000-45.0000102.000

\*\*\*\*\* SUMMATION OF TOTAL FX = 406505.9 FY = -36098.21 FZ = 298133.6 MX = 7173904. MY = -1699297. MZ = -0.2147353E+08 SUMMATION POINT= 0.0000 -45.000 102.00

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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 = 256162.4 FY = -15955.78 FZ = 648247.7 MX = 9604255. MY = 3393810. MZ = -0.1209107E+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

# **EXAMPLE 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 = 120187.9FY = -28442.76FZ = 796550.4 MX = 9092937. 7057095. MY = MZ = -8367741. 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. 15348 DEFINED) SELECTED FROM 1140 ELEMENTS (OF 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 = -11050.22FY = -46973.48FZ = 776337.1 MX = 8985788. MY = 9625863. MZ = -5305417.

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 = -146248.2FY = -55923.54586489.7 FZ = MX = 9173212. MY = 0.1130519E+08 MZ = -990211.0

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.

ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET. SELECT

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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 = -299177.2FY = -11423.70FZ = 174172.3 MX = 6188009. MY = 0.1384821E+08MZ = 0.1060630E+08SUMMATION 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. FOR ITEM=LOC COMPONENT=Z BETWEEN -978.10 AND -977.90 RESELECT 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 = -398256.6FY = 12764.01FZ = 38617.81 MX = 4038801.

MY = 0.1359047E+08MZ = -7185755. 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. 0 NODE FOR MOMENT SUMMATION= MOMENT SUMMATION LOCATION= 0.00000 -45.0000 -1038.00 \*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 475521.6FY = -89264.01FZ = -38617.81 MX = -977959.9 MY = 0.1262288E+08MZ = 7185755. 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.

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### SERVICES, INC. Appendix FC-1 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= 204.000 -45.0000 222.000 \*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 652421.8FY = -127868.1FZ = 91044.20 MX = -3706622. MY = -0.1963293E+08MZ = 4691533. 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. ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET. SELECT 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 = 593305.6

ENERCON

FY = -119503.7FZ = 123475.2MX = 1073714.MY = -0.1717192E + 08MZ = -6028899. 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. FOR ITEM=LOC COMPONENT=Z BETWEEN 101.90 AND 102.10 RESELECT 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 = 644331.3FY = -106947.6FZ = 144978.9 MX = 5903260. MY = -0.1258046E+08MZ = -0.1004615E+08SUMMATION POINT= 204.00 -45.000 102.00 ALL NODES HAVING ANY ELEMENT IN ELEMENT SET. SELECT 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. FOR ITEM=LOC COMPONENT=Z BETWEEN -102.10 AND -101.90 RESELECT KABS= 0. TOLERANCE= 0.200000E-08 25 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND. NODE FOR MOMENT SUMMATION= Ω MOMENT SUMMATION LOCATION= 204.000 -45.0000 -102.000 \*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 407319.6FY = -31402.49FZ = 318485.0 MX = 9232858. MY = -4715489.MZ = -6687795.

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 = 152662.0FY = -26025.12
- 383556.8 FZ =
- MX = 8121906.
- MY = 2433858.
- MZ = -5647601.

SUMMATION POINT= 204.00 -45.000 -306.00

ALL NODES HAVING ANY ELEMENT IN ELEMENT SET. SELECT

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.

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

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = -89964.75

FY = -28304.00FZ = 373753.4 MX = 8376861. MY = 7144837. MZ = -4696126.

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

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## **F.J. ENERCON** SERVICES, INC. Appendix FC-1 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=0MOMENT SUMMATION LOCATION=204.000-45.0000-714.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = -345448.1 FY = -17482.28 FZ = 289295.9 MX = 9953764.

- MY = 9905408.
- MZ = -3226311.

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 = -515915.7FY = 42595.70 FZ = 123453.0 MX = 5921344. MY = 0.1611579E+08MZ = 6070044. SUMMATION POINT= 204.00 -45.000 -918.00 ALL NODES HAVING ANY ELEMENT IN ELEMENT SET. SELECT 75 NODES (OF 17051 DEFINED) SELECTED FROM 40 SELECTED ELEMENTS BY NELE COMMAND. Internal forces at Z = -978.0 LINE 2 FOR ITEM=LOC COMPONENT=Z RESELECT 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 = -574963.5FY = 51142.99FZ = 90943.43 MX = 1664371. MY = 0.1719938E+08 MZ = -4697277.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.

ENERCON SERVICES, INC. Appendix FC-1 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= 204.000 -45.0000 -1038.00 \*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 652228.5 FY = -127643.0FZ = -90943.43 MX = 3699209. MY = 0.1961638E+08MZ = 4697277. 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 FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 510.10 RESELECT 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

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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 = 686009.3 FY = -152281.4 FZ = 129660.7 MX = -6061128. MY = -0.1971151E+08 MZ = 8718828.								
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 = 609482.5FY = -116961.4 FZ = 122259.3 MX = 395995.7 MY = -0.1721477E + 08MZ = -4508587. SUMMATION POINT= 408.00 -45.000 162.00

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

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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 = 648928.3 FY = -88182.89 FZ = 106397.0 MX = 4849006. MY = -0.1239154E+08

MZ = -9690762.

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 = 394824.3FY = -23332.63FZ88655.23 = MX = 6862494. MY = -3858302.MZ = -6112065.

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

FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -305.90 RESELECT 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 = 146120.9FY = -23057.16FZ = 41804.54 MX = 5033766. MY = 3031444. MZ = -5599677.

-306.00 SUMMATION POINT= 408.00 -45,000

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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.

FOR ITEM=LOC COMPONENT=Z RESELECT 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 = -86884.23FY = -27929.83FZ = 45883.65 MX = 5228107.7573780. MY = MZ = -5277149.

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.

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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 = -338797.5FY = -15752.83FZ = 101657.3MX = 7341382.MY = 0.1039685E+08MZ = -4432998. 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 = -532204.3FY = 40225.14 FZ = 122275.3 MX = 5107146.MY = 0.1704226E+08MZ = 4526164.

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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. FOR ITEM=LOC COMPONENT=Z RESELECT 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 = -608726.2FY = 75743.26 FZ = 129645.4780213.1 MX = MY = 0.1913503E+08MZ = -8716782. 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



*****	* SI	UMMATION OF TOTAL	FORCES	AND	MOMENTS	IN	GLOBAL	COORDINATES	****
FX	=	685991.2							
FY	=	-152243.3							
FZ	=	-129645.4							
MX	=	6059382.							
MY	=	0.1970649E+08							
MZ	=	8716782.							

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 = 644400.8FY = -143480.9

FZ = 140044.3

MX = -9185582.



MY = -0.1769102E+08 MZ = 9908219.

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 = 420460.6 FY = -150936.2 FZ = 19444.90 MX = -4240410. MY = -6597323.

MZ = -6377886.

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= ρ MOMENT SUMMATION LOCATION= 612.000 -45.0000 102.000 \*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 413163.2FY = -171804.6FZ = -102708.7MX = 1543524. MY = -1262393.MZ = -0.1546361E+08SUMMATION 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. 0 NODE FOR MOMENT SUMMATION= MOMENT SUMMATION LOCATION= 612.000 -45.0000 -102.000 \*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 238774.7FY = -60069.65



FZ = -291139.3 MX = 3417829.

MY = 2106248.

MZ = -8240993.

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=0MOMENT SUMMATION LOCATION=612.000-45.0000-306.000

\*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 109162.9 FY = -52227.79 FZ = -401663.8 MX = 764098.0 MY = 4993299. MZ = -7385459.

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

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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.

FOR ITEM=LOC COMPONENT=Z BETWEEN -510.10 AND -509.90 RESELECT 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 = -11669.04FY = -54469.13FZ = -389752.6MX = 1073675. MY = 7406564. MZ = -6970118.

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.

BETWEEN -714.10 AND -713.90 FOR ITEM=LOC COMPONENT=Z RESELECT 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 = -144032.4FY = -34866.33FZ = -253450.1 MX = 4496735. MY = 0.1000505E+08MZ = -5702581.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. FOR ITEM=LOC COMPONENT=Z BETWEEN -918.10 AND -917.90 RESELECT 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 = -343186.4FY == 74412.80 FZ = 19397.64 MX = 2521466. MY = 0.1631395E+08MZ = 6377809.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

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KABS= 0. TOLERANCE= 0.602000E-06 50 NODES (OF 17051 DEFINED) SELECTED BY NSEL COMMAND. ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET. SELECT 20 ELEMENTS (OF 15348 DEFINED) SELECTED FROM 50 SELECTED NODES BY ENOD COMMAND.

RESELECT FOR ITEM=LOC COMPONENT=Z BETWEEN -1038.1 AND -977.90

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 = -567145.4FY = 66979.61FZ = 139995.0 MX = -2869666. MY = 0.1865635E+08MZ = -9909071.

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 = 644410.4FY = -143479.6FZ = -139995.0 MX = 9183442. MY = 0.1769032E+08MZ = 9909071. SUMMATION POINT= 612.00 -45.000 -1038.0

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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 = 525272.7FY = -239120.5 FZ = -259034.7 MX = 1725602.MY = -7643568. MZ = 0.2448930E+08SUMMATION POINT= 714.00 -45.000 -978.00 SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

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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 = 359377.2 FY = -207832.4 FZ = -352559.1 MX = -2865372. MY = -0.1083304E+08

MZ = 4887233.

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 = 155771.8FY = -229902.0FZ = -356586.8MX = -4321079.MY = -9288273.MZ = -5421793.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 = -49505.16FY = -146374.1FZ = -287205.9MX = -3739970.MY = -5774217.MZ = -0.2184465E+08SUMMATION POINT= 102.00 -45.000 -978.00

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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 = 304554.0FY = -51285.08FZ = 161918.9 MX = -997074.2MY = -4593750.MZ = 0.1484612E+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

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.

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#### ENERCON SERVICES, INC. Appendix FC-1 to Calculation PGE-009-CALC-003 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 = 793709.5 FY = -603514.1FZ = -164215.3MX = 2129687. MY = -2501374. ΜZ = 0.3528869E+08SUMMATION POINT= 714.00 -45.000 -816.00 ALL NODES HAVING ANY ELEMENT IN ELEMENT SET. SELECT 2310 NODES (OF 17051 DEFINED) SELECTED FROM 2200 SELECTED ELEMENTS BY NELE COMMAND. Internal forces at x = 510.0 LINE D FOR ITEM=LOC COMPONENT=X RESELECT 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 \*\*\*\*\* 439877.3 FX = FY = -537258.2FZ = -452097.3MX = -564258.8MY = -0.1283636E+08MZ = 2676159.

-45.000 SUMMATION POINT= 510.00 -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.

ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET. SELECT

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 = 313731.6FY = -533490.0FZ = -525262.7MX = -1334569. MY = -0.1331645E+08MZ = -0.1742949E+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

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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 = 154160.2 FY = -511333.3FZ= -381263.3

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

- MX = -2856639.
- MY = -8511153.
- MZ = -0.4488949E+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 = 439647.9FY = 28775.93 FZ = 143636.4MX = 3453553. MY = -3321987.MZ = 0.1926275E+08

SUMMATION POINT= -102.00 -45.000 -816.00

ALL NODES HAVING ANY ELEMENT IN ELEMENT SET. SELECT

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

FOR ITEM=LOC COMPONENT=Z BETWEEN -714.10 AND -509.90 RESELECT 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

BETWEEN 713.90 AND 714.10 FOR ITEM=LOC COMPONENT=X RESELECT 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 = 864465.8FY = -644895.8

FZ = -74513.32

MX = 1137461.

MY = -1201813.

MZ = 0.3860423E+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 = 428620.6FY = -547955.3FZ = -208199.9MX = -168599.9MY = -4821534. MZ = 2511197.

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 = 319608.1 FY = -544956.2FZ = -262783.5MX = -741660.3MY = -6675977.MZ = -0.1824788E+08SUMMATION 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 = 176810.3FY = -540097.9FZ = -183933.1 MX = -1549587.

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## ENERCON SERVICES, INC. Appendix FC-1 to Calculation PGE-009-CALC-003

MY = -4991893. MZ = -0.4760604E+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 = 461317.3 FY = 15306.45 FZ = 70491.70 MX = 936821.4 MY = -1506160. MZ = 0.2033337E+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.

select strip x direction z = -510 to -306

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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 = 886414.5 FY = -653720.4

FZ = 29.25473

MX = -300.8593

MY = 645.2824MZ = 0.3963429E+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.

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. 0 NODE FOR MOMENT SUMMATION= MOMENT SUMMATION LOCATION= 510.000 -45.0000 -408.000 \*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 442417.4FY = -550605.7FZ = 55.30473 MX = 816.1777 MY = 1088.448 MZ = 2533592. 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 \*\*\*\*\* 322226.8 FX = FY = -547000.6 FZ = 73.28032MX = 4204.487 MY = 1168.688 MZ = -0.1841200E+08SUMMATION 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

FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10 RESELECT 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 = 171332.0

- FY = -546142.2FZ = 78.37562 MX = 11754.07 MY = 1204.012
- MZ = -0.4809341E+08

SUMMATION POINT= 102.00 -45.000 -408.00

ALL NODES HAVING ANY ELEMENT IN ELEMENT SET. SELECT

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 = 471813.5FY = 14469.98

FZ = -39.50206 MX = -6229.406MY = 1856.880 MZ = 0.2084240E+08SUMMATION 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 -102RESELECT 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. ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET. SELECT 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 = 864446.4

#### **EXERCON** SERVICES, INC. Appendix FC-1 to Calculation PGE-009-CALC-003 FY = -644878.4FZ = 74569.78 MX = -1137967.MY = 1203087. MZ = 0.3860337E+08SUMMATION 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 = 428583.6

. FY = -547926.3 FZ = 208304.2 MX = 171516.1 MY = 4823121. MZ = 2514922.

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. ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET. SELECT 1100 ELEMENTS (OF 15348 DEFINED) SELECTED FROM 1170 SELECTED NODES BY ENOD COMMAND. FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 306.10 RESELECT 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 = 319474.6FY = -545010.9 FZ Ξ 262928.4 MX = 761822.4MY = 6673952. MZ = -0.1823499E+08SUMMATION 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 FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 102.10 RESELECT 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

ENERCON SERVICES, INC. Appendix FC-1 to Calculation PGE-009-CALC-003 \*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 176729.0FY = -540269.5FZ = 184086.4 MX = 1573560. MY = 4994054.MZ = -0.4759810E + 08SUMMATION 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 = 461367.3 FY = 15314.43 FZ = -70591.99 MX = -945945.7 MY = 1510237.MZ = 0.2033603E+08SUMMATION POINT= -102.00 -204.00 -45.000 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.

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### ENERCON SERVICES, INC. Appendix FC-1 to Calculation PGE-009-CALC-003

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 = 793674.7FY = -603481.0FZ = 164262.3 MX = -2130059.MY = 2502594. MZ = 0.3528720E+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

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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 = 439823.7FY = -537152.7FZ = 452146.6 MX = 563476.2MY = 0.1283984E+08MZ = 2688230. 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. FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 306.10 RESELECT 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 = 313901.3 FY = -532603.5FZ = 525138.2 MX = 1309882.MY = 0.1332404E+08

MZ = -0.1738016E+08

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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

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

FOR ITEM=LOC COMPONENT=X BETWEEN 101.90 AND 102.10 RESELECT 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 = 154065.6 FY = -511124.5FZ = 381322.3 MX = 2837482.MY = 8506942. MZ = -0.4491566E+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 = 439703.7 FY = 28733.62 FZ = -143742.3 MX = -3455317. MY = 3325659. MZ = 0.1926529E+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

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

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NODE FOR MOMENT SUMMATION= 0 MOMENT SUMMATION LOCATION= 714.000 -45.0000 162.000 \*\*\*\*\* SUMMATION OF TOTAL FORCES AND MOMENTS IN GLOBAL COORDINATES \*\*\*\*\* FX = 525232.6FY = -239089.3FZ = 259050.3 MX = -1726471.MY = 7643609.MZ = 0.2448766E+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. FOR ITEM=LOC COMPONENT=X BETWEEN 509.90 AND 510.10 RESELECT 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 = 359305.8 FY = -207722.2FZ = 352574.3 MX = 2865639.MY = 0.1083195E+08MZ = 4895306. 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

FOR ITEM=LOC COMPONENT=X BETWEEN -102.10 AND 306.10 RESELECT 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.

FOR ITEM=LOC COMPONENT=X BETWEEN 305.90 AND 306.10 RESELECT 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 = 155603.9

FY = -229145.8

FZ = 356739.7

MX = 4335886.

MY = 9288051.

MZ = -5386584.

SUMMATION POINT= 306.00 -45.000 162.00

ALL NODES HAVING ANY ELEMENT IN ELEMENT SET. SELECT

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.

ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET. SELECT

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 = -49495.78FY = -146358.4FZ = 287343.4 MX = 3763212. MY = 5778705.MZ = -0.2186785E+08SUMMATION 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 = 304594.3FY = -51315.34 FZ = -161984.0 MX = 995296.7 MY = 4595266. MZ = 0.1484897E+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 = 94.926 \*\*\* NOTE \*\*\* CP= 94.926 TIME= 17:02:05 A total of 1 warnings and errors written to dcslabs2.err.