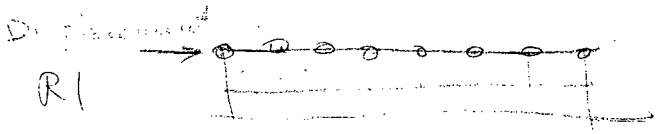
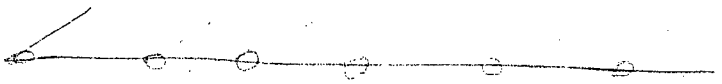
2. Data has already been sent on Nov 30. But BNL only got pdf. file on Dec. 5, 2004.

4

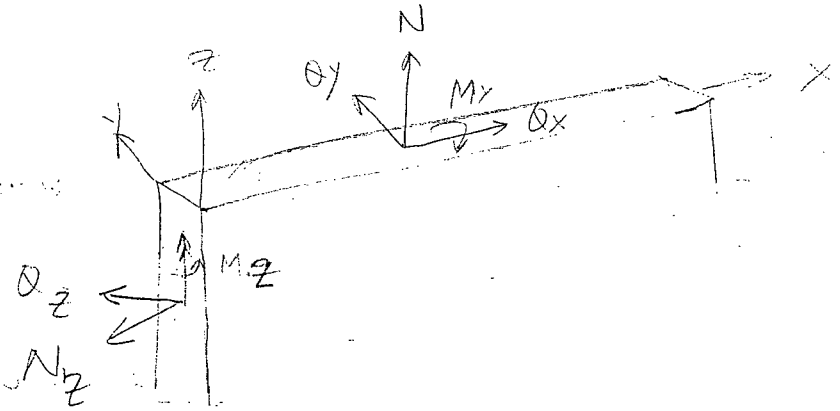


Y Displ[illegible]



5. a) N_{xy}, N_x, N_y, M_x, M_y, Q_x, and Q_y. (7)

b) to provide a table [illegible] for core [illegible] of [illegible] in the [illegible] and the [illegible] output.

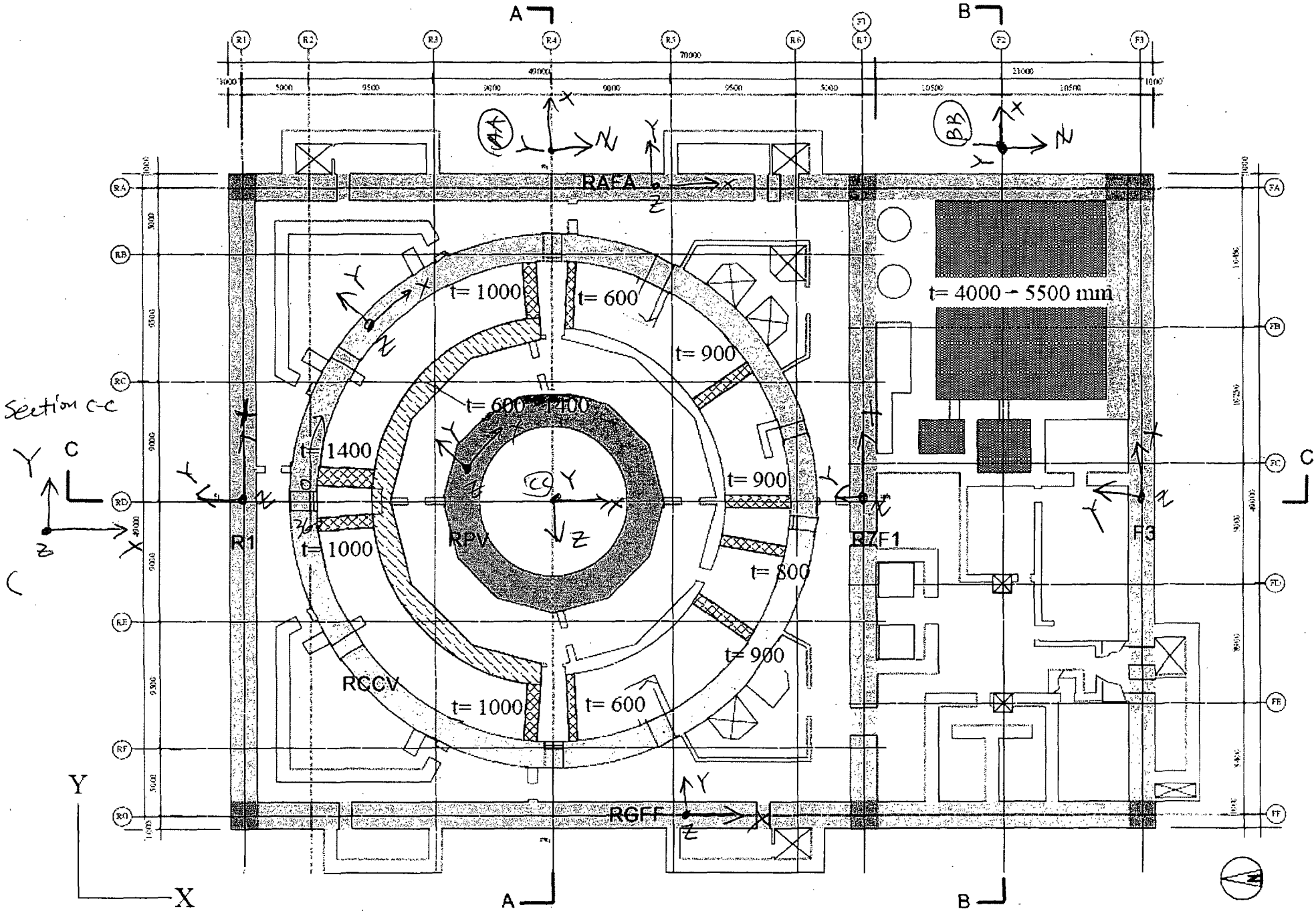


Group 1: N, Q_x, Q_y M_x

Group 2: N_z, Q_z, M_z

File: 8 columns of data

xyz coordinates N, Q_y, Q_y, M_y, N_z Q_z [illegible]



:Spent Fuel Pool slab (basemat) thickness increase

:Thickness of half north of Cylindrical Walls under S/P increase

:Addition of Radial Walls under S/P

Notes for Comparison of Confirmatory Analysis Results

1 What is the error referred to in SER-ESB-038 Rev. 4? (Spent Fuel Pool wall gate). Discuss the scope and potential impact of this change to the full model.

2 As the plots are received in pdf file, the comparison will be done by reading the plots. As time permits, compared locations include R1, RAFA, and section CC in the basemat. More accurate comparison can be made once the data (Excel or text file) are received.

3 The noticeable difference between Rev. 4 and Rev. 3 of SER-ESB-038 is that the "seismic load combination for a critical case" has changed from 0.4NS+1.0EW-0.4V in Rev. 3 to -0.4NS-1.0EW-0.4V in Rev. 4. Is this change due to the error as stated in bullet 1?

4 SER-ESB-038 Rev. 4 presents distributed displacements at the top of the walls and along the sections in the basemat. As agreed in the conference call on 11/21/2006, GE was to present displacements at critical locations due to the potential manipulation effort. Therefore, BNL did not produce the corresponding displacement plots, however will make similar plots for comparison after the audit.

5 The 4 internal forces and moment for a section along the wall or in the basemat are the axial force, in-plane shear, out-of-plane shear, and the (in-plane) moment around the "neutral axis". However, it is noticed that GE's forces and moments plots are not all at the section surface. These plots include Nx, Ny, Mx, My, Qx, and Qy, which are in element coordinate system in the NASTRAN model. Seperating the forces and moements into two groups, one on the surface and one in the perpendicular surface, is beneficial. Using wall R1 as an example, the axial force is Ny, in-plane shear is Nxy (missing), out-of-plane shear is Qy, and the in-plane moment is My. Please provide plots for Nxy as well, since Nxy is very important for lateral seismic loadings.

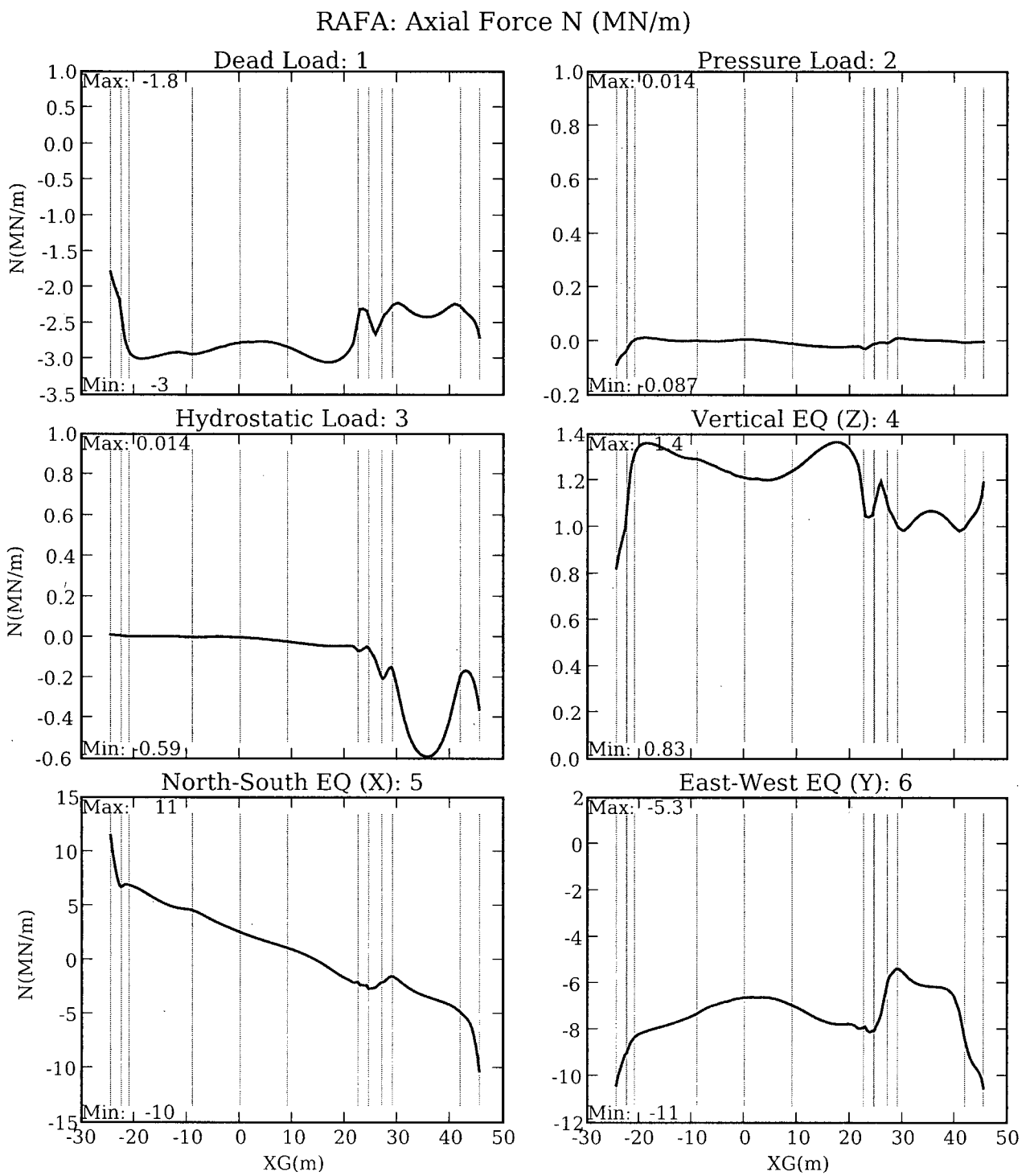
6 How are the distributed (linearized) internal forces and moments obtained? Especially those not belonging to the section surface in question. (these quantities were plot in SER-ESB-027 Rev. 0 as in unit of MN or MN-m)

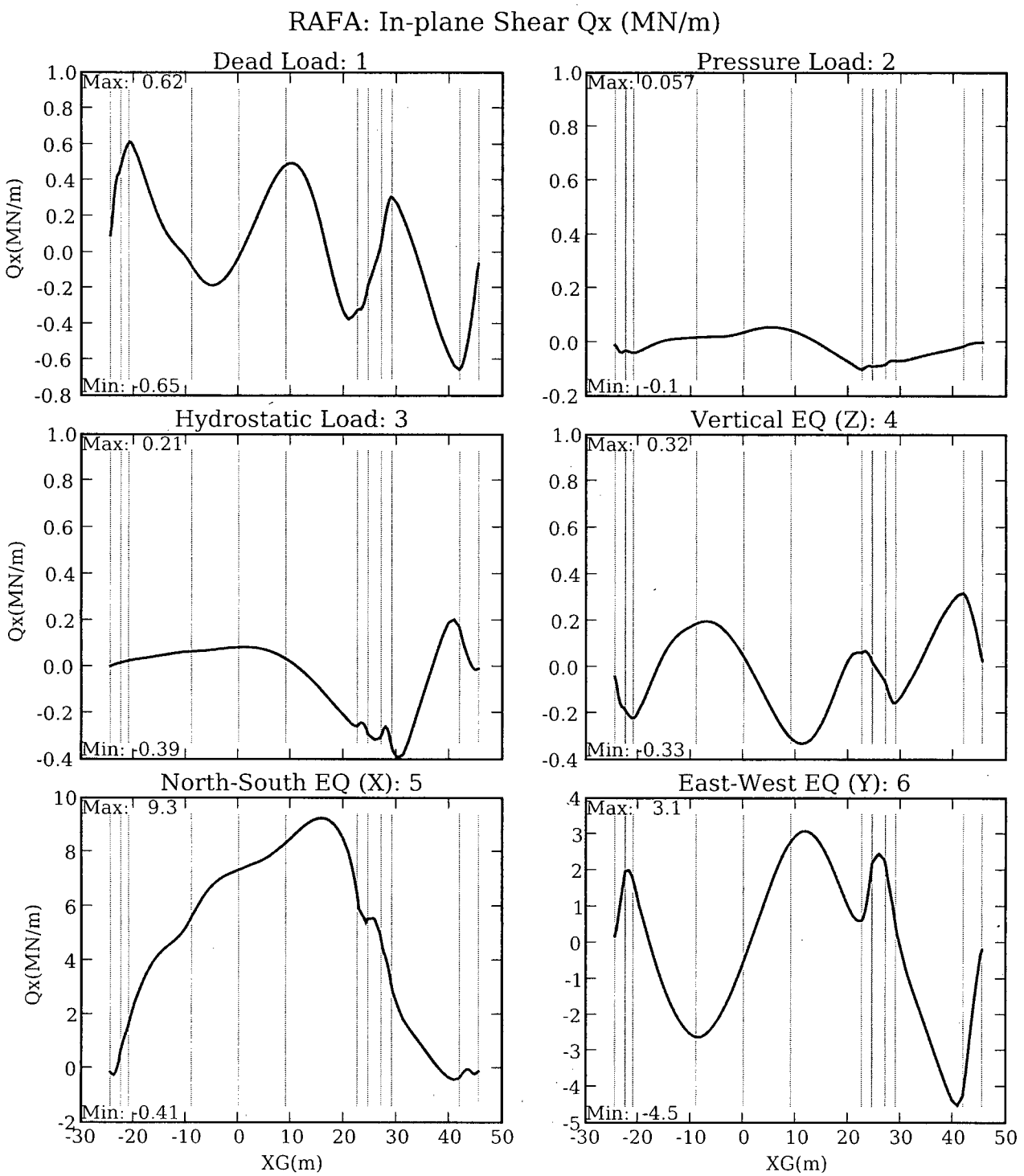
7 It has been noticed that some quantities from GE is in reverse sign to BNL's solution. It is important to define the positive direction of a section in addition to its location.

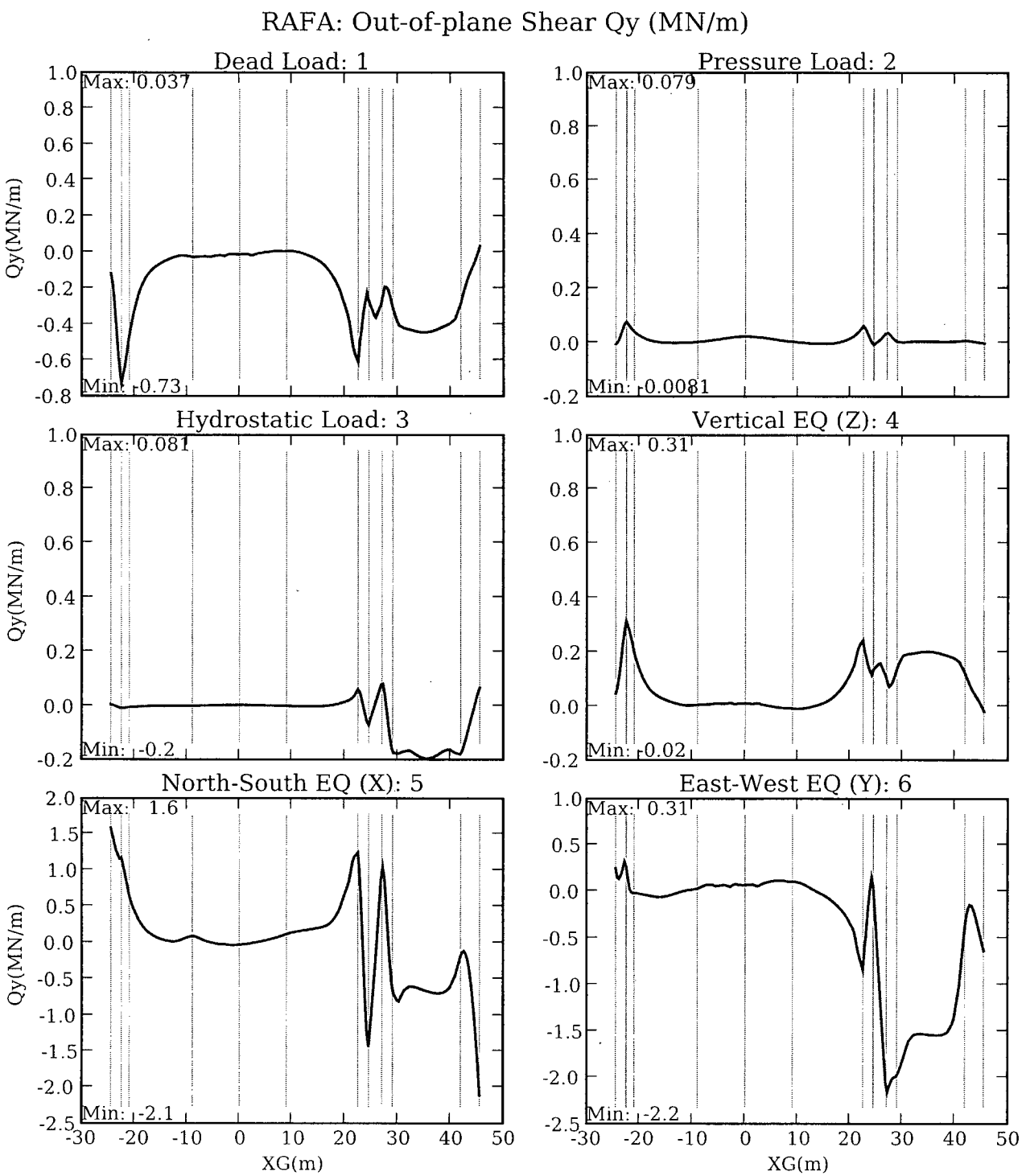
8 Elevation of the "wall base"? the center of the bottom row of shell element in NASTRAN model? Elevation of the basemat? Any offset used in defining the shell element for the basemat? This may contribute to some of the differences found in this comparison. Internal forces and moments are taken from an elevation of -11.5 (top of the basemat) of walls.

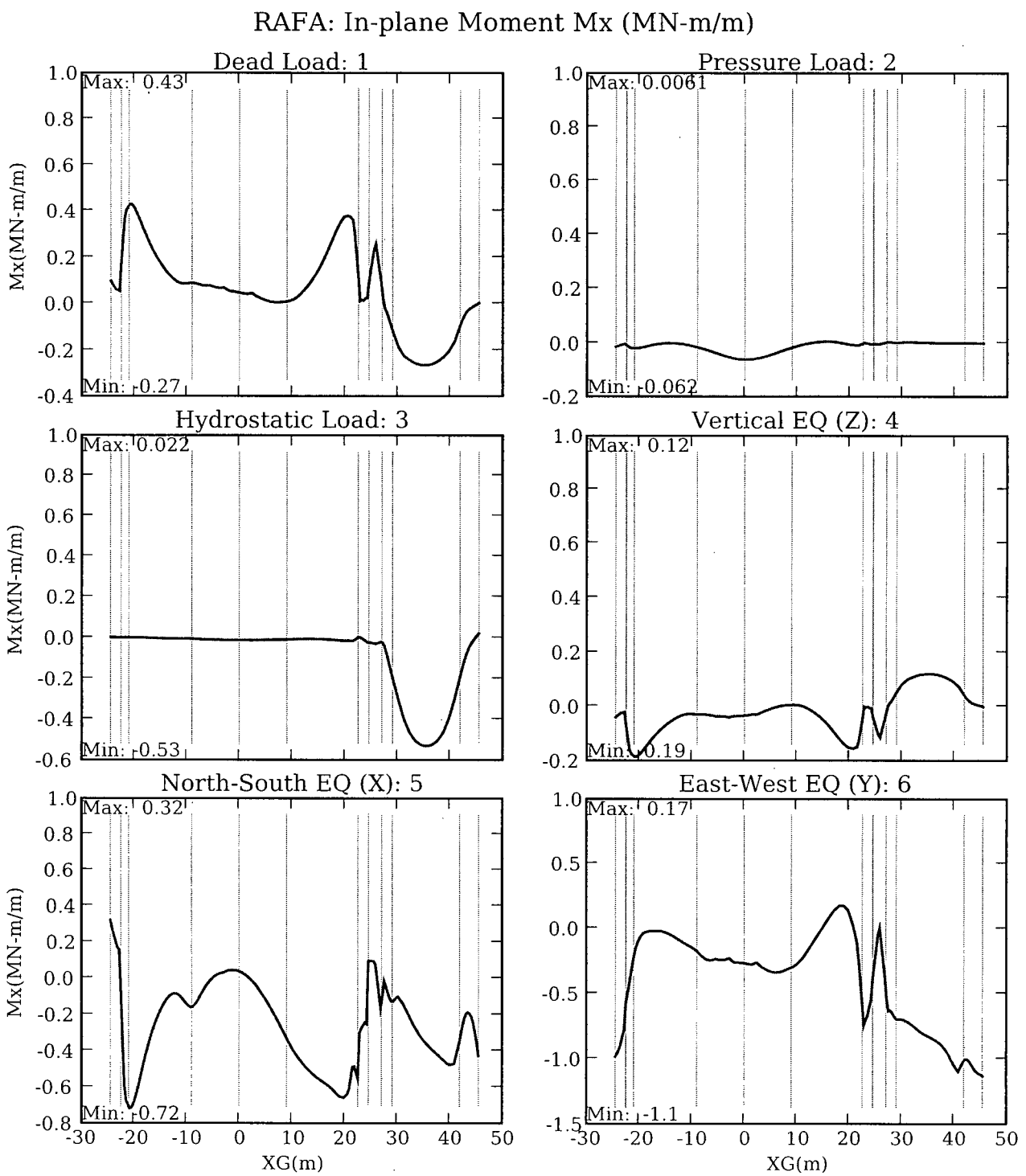
9 The sections for internal forces and moments are not straight lines, unlike those for displacements. However, ANSYS results are produced along the straight sections. This discrepancy in defining the sections may introduce differences in the comparison. Why SER-ESB-048 uses straight sections but SER-ESB-038 does not?

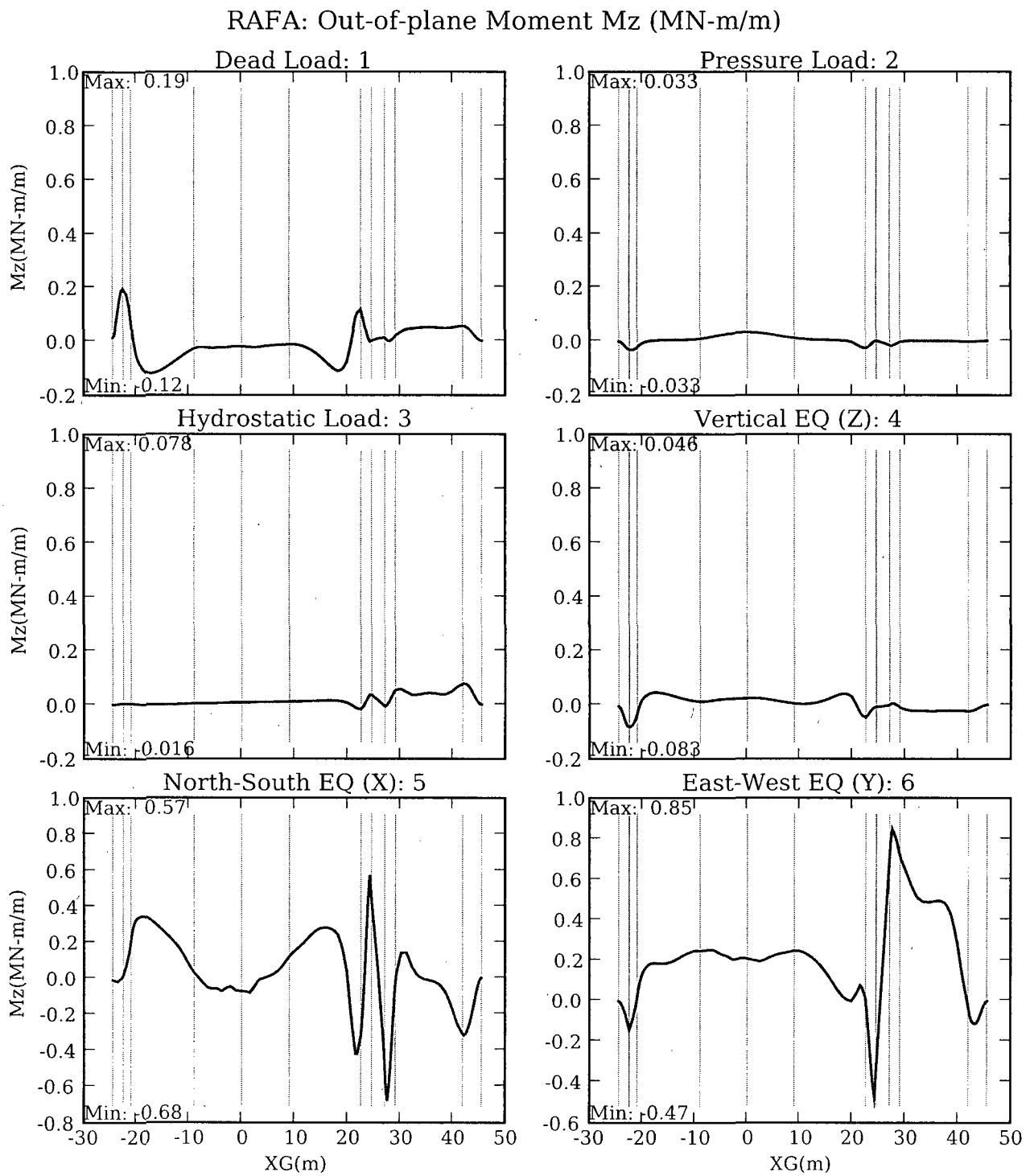
10 Axial forces agrees better than shear and moments.

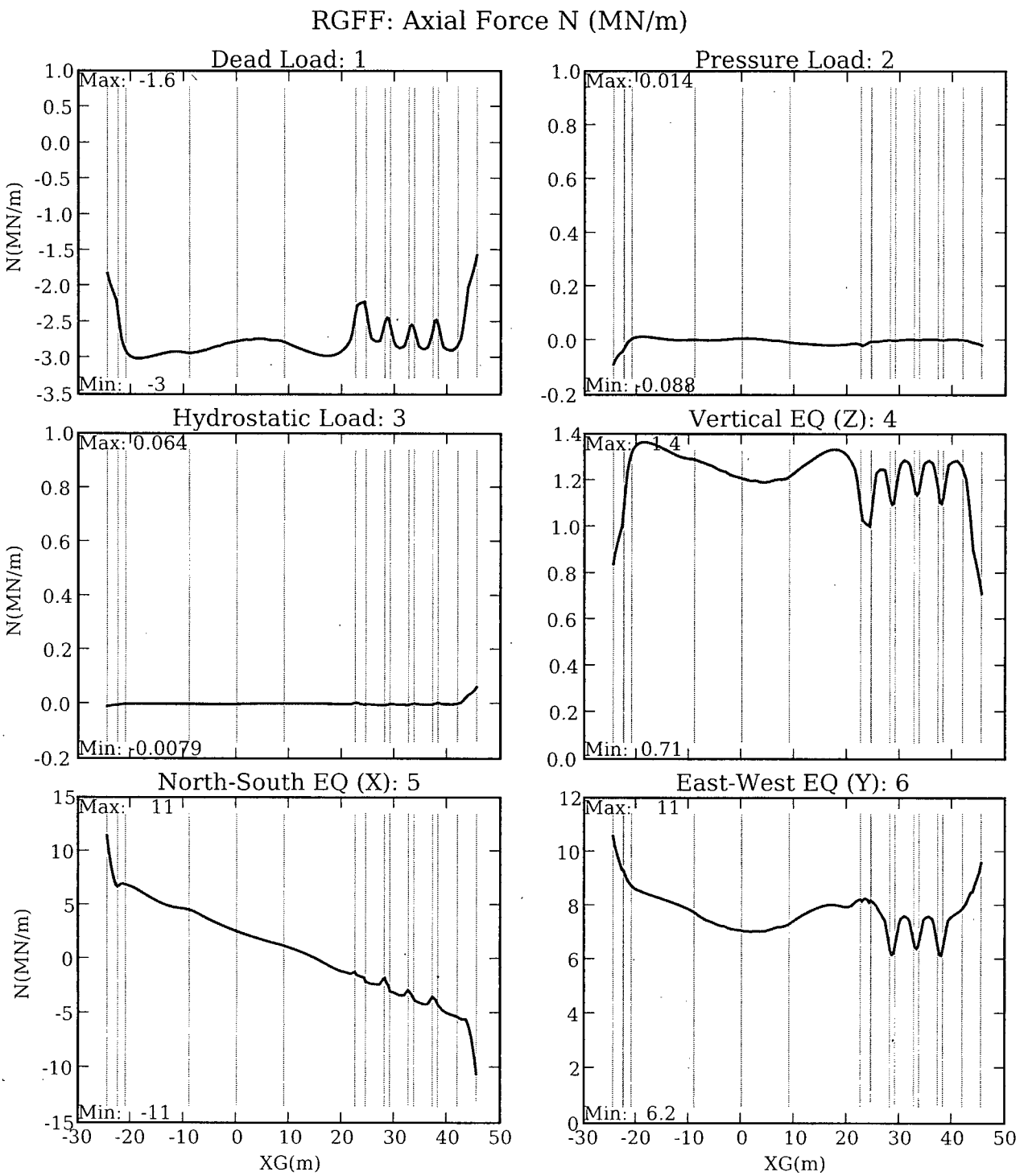

RAFA: Axial Force N (MN/m)
Dead Load: 1
Max: -1.8
Min: -3
Pressure Load: 2
Max: 0.014
Min: -0.087
Hydrostatic Load: 3
Max: 0.014
Min: -0.59
Vertical EQ (Z): 4
Max: 1.4
Min: 0.83
North-South EQ (X): 5
Max: 11
Min: -10
East-West EQ (Y): 6
Max: -5.3
Min: -11
N(MN/m)
XG(m)

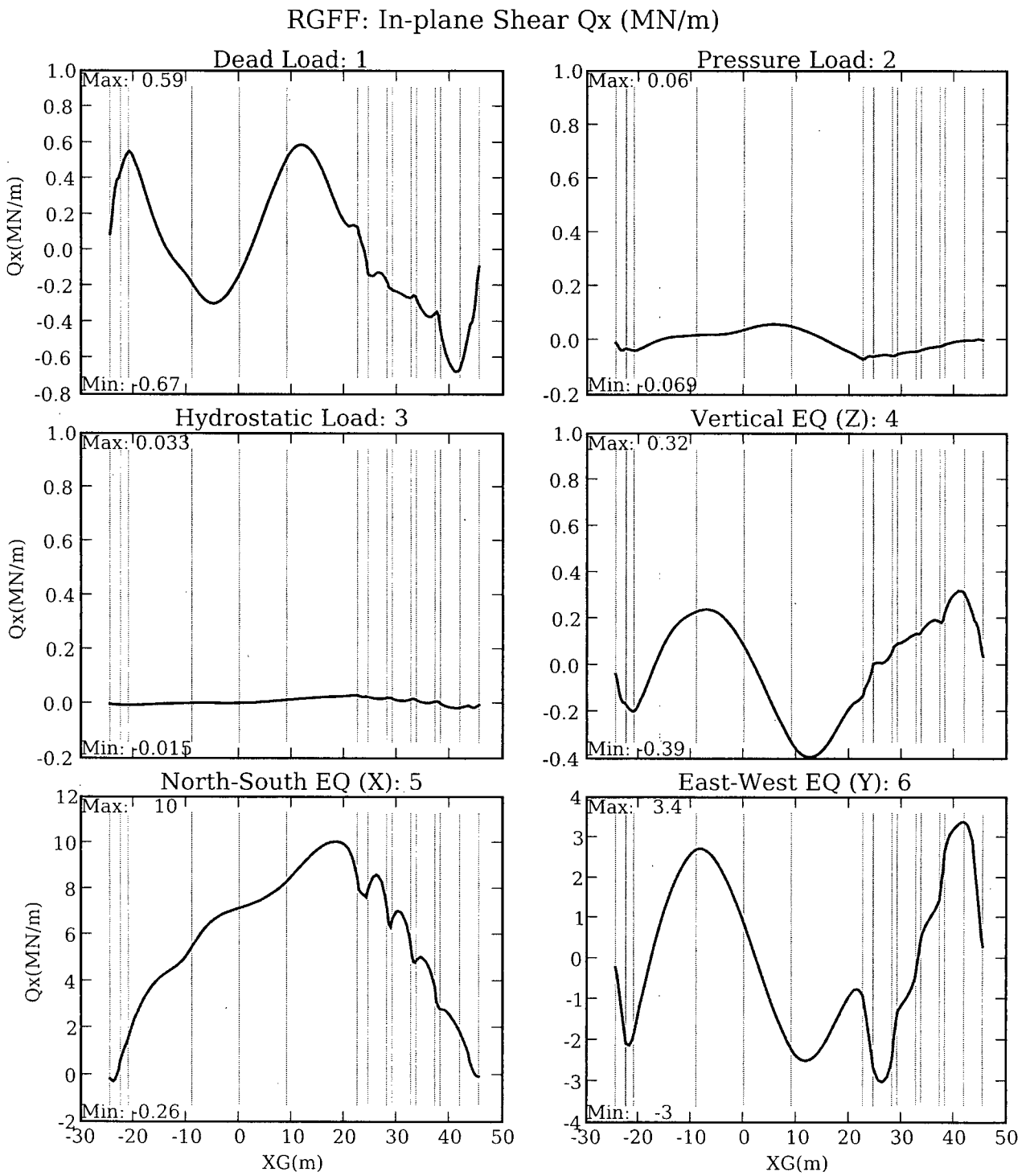

RAFA: In-plane Shear Qx (MN/m)
Dead Load: 1
Max: 0.62
Min: -0.65
Pressure Load: 2
Max: 0.057
Min: -0.1
Hydrostatic Load: 3
Max: 0.21
Min: -0.39
Vertical EQ (Z): 4
Max: 0.32
Min: -0.33
North-South EQ (X): 5
Max: 9.3
Min: -0.41
East-West EQ (Y): 6
Max: 3.1
Min: -4.5
Qx(MN/m)
XG(m)

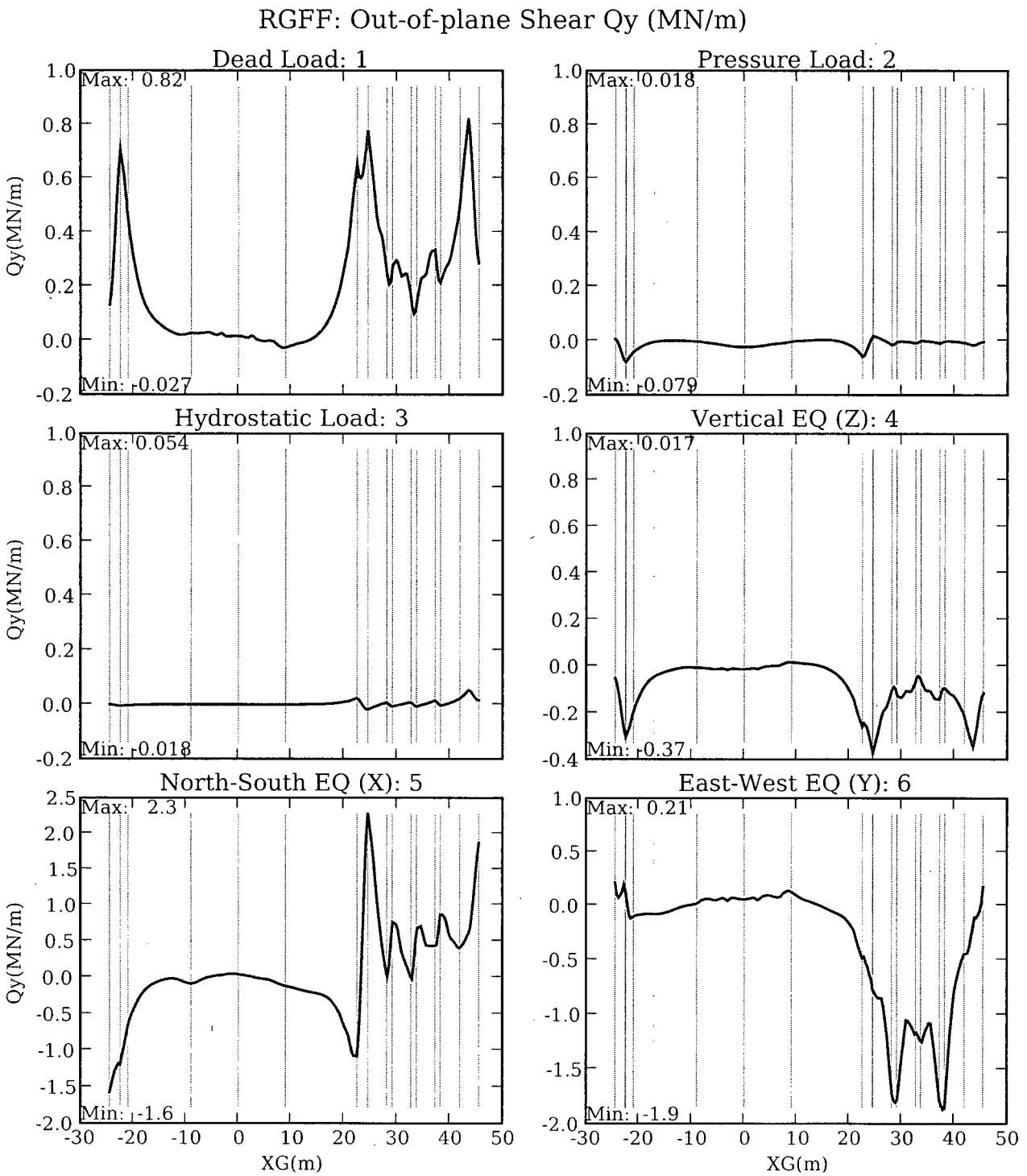

RAFA: Out-of-plane Shear Qy (MN/m)
Dead Load: 1
Max: 0.037
Min: -0.73
Pressure Load: 2
Max: 0.079
Min: -0.0081
Hydrostatic Load: 3
Max: 0.081
Min: -0.2
Vertical EQ (Z): 4
Max: 0.31
Min: -0.02
North-South EQ (X): 5
Max: 1.6
Min: -2.1
East-West EQ (Y): 6
Max: 0.31
Min: -2.2
Qy(MN/m)
XG(m)

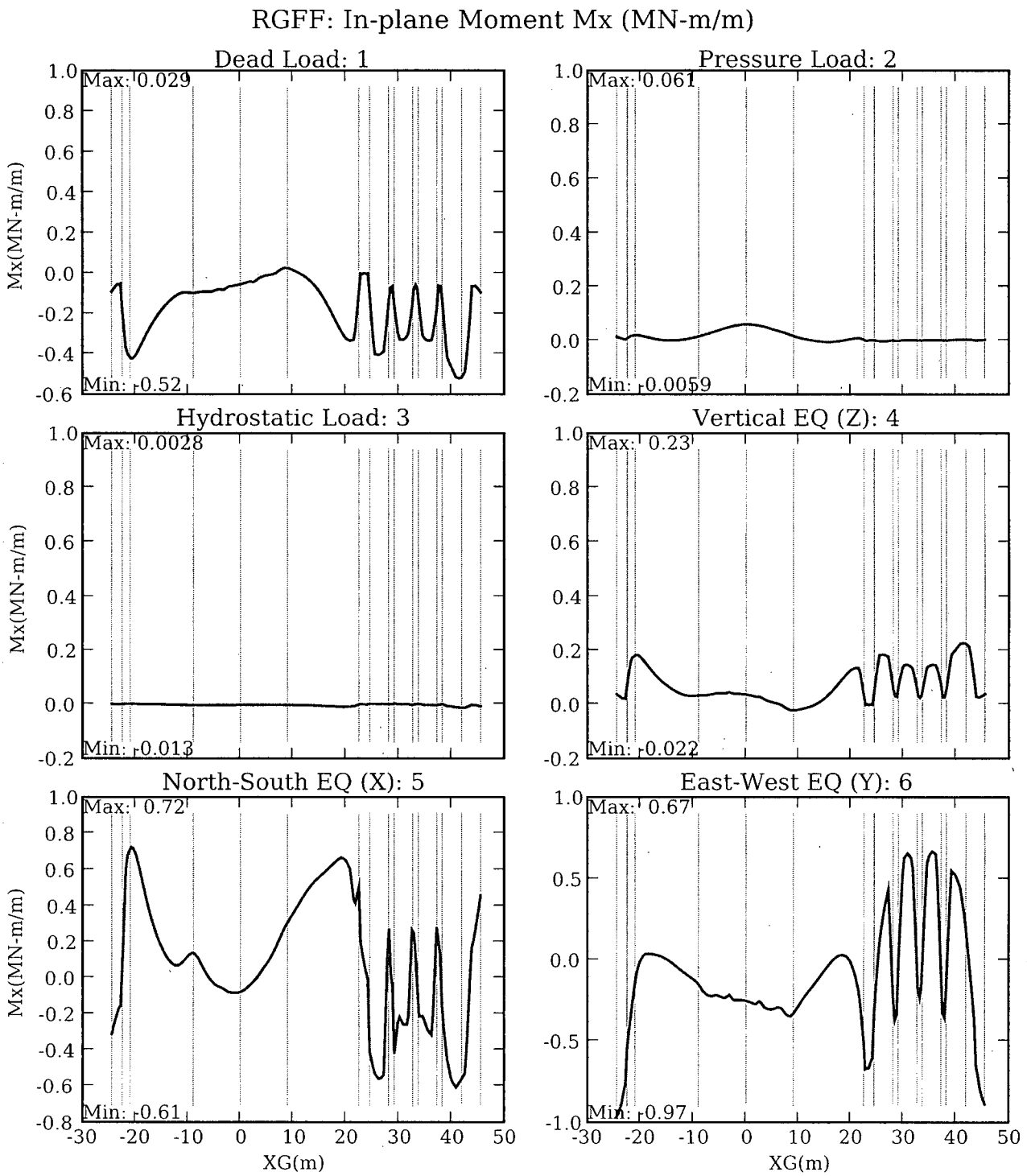

RAFA: In-plane Moment Mx (MN-m/m)
Dead Load: 1
Max: 0.43
Min: -0.27
Pressure Load: 2
Max: 0.0061
Min: -0.062
Hydrostatic Load: 3
Max: 0.022
Min: -0.53
Vertical EQ (Z): 4
Max: 0.12
Min: -0.19
North-South EQ (X): 5
Max: 0.32
Min: -0.72
East-West EQ (Y): 6
Max: 0.17
Min: -1.1
Mx(MN-m/m)
XG(m)

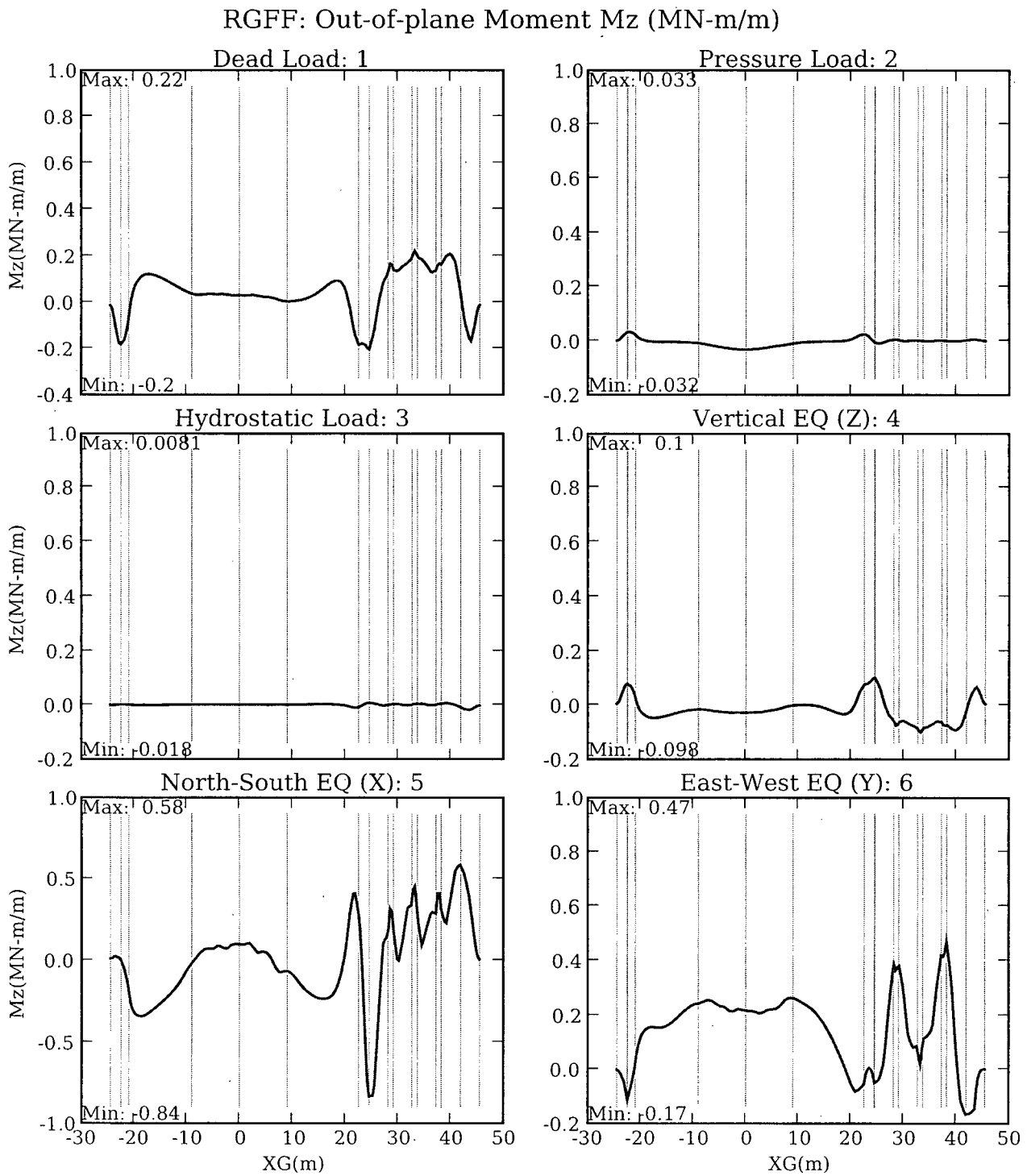

RAFA: Out-of-plane Moment Mz (MN-m/m)
Dead Load: 1
Max: 0.19
Min: 0.12
Pressure Load: 2
Max: 0.033
Min: 0.033
Hydrostatic Load: 3
Max: 0.078
Min: 0.016
Vertical EQ (Z): 4
Max: 0.046
Min: 0.083
North-South EQ (X): 5
Max: 0.57
Min: 0.68
East-West EQ (Y): 6
Max: 0.85
Min: 0.47
Mz(MN-m/m)
XG(m)

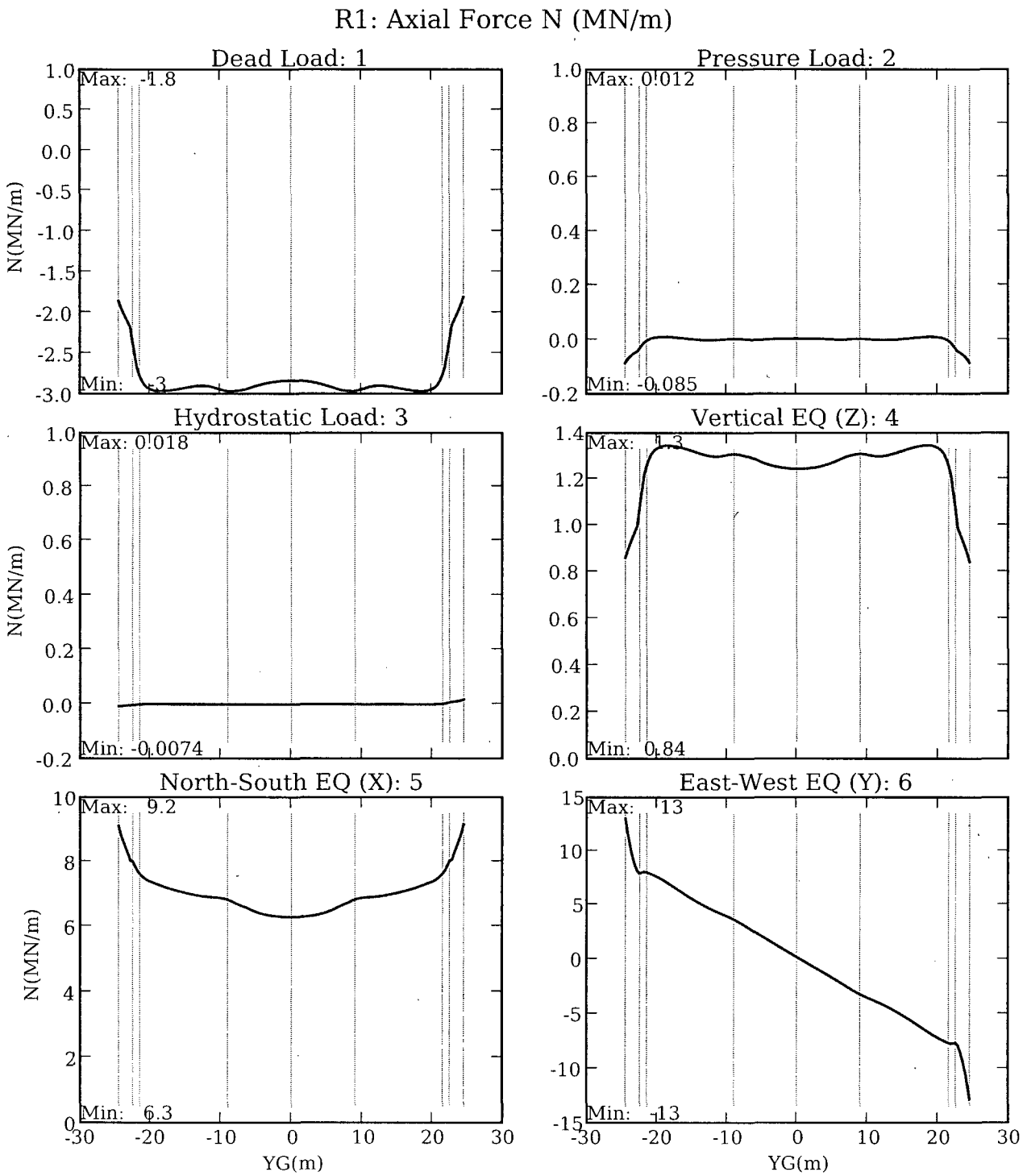

RGFF: Axial Force N (MN/m)
Dead Load: 1
Max: -1.6
Min: -3
Pressure Load: 2
Max: 0.014
Min: -0.088
Hydrostatic Load: 3
Max: 0.064
Min: -0.0079
Vertical EQ (Z): 4
Max: 1.4
Min: 0.71
North-South EQ (X): 5
Max: 11
Min: -11
East-West EQ (Y): 6
Max: 11
Min: 6.2
N(MN/m)
XG(m)

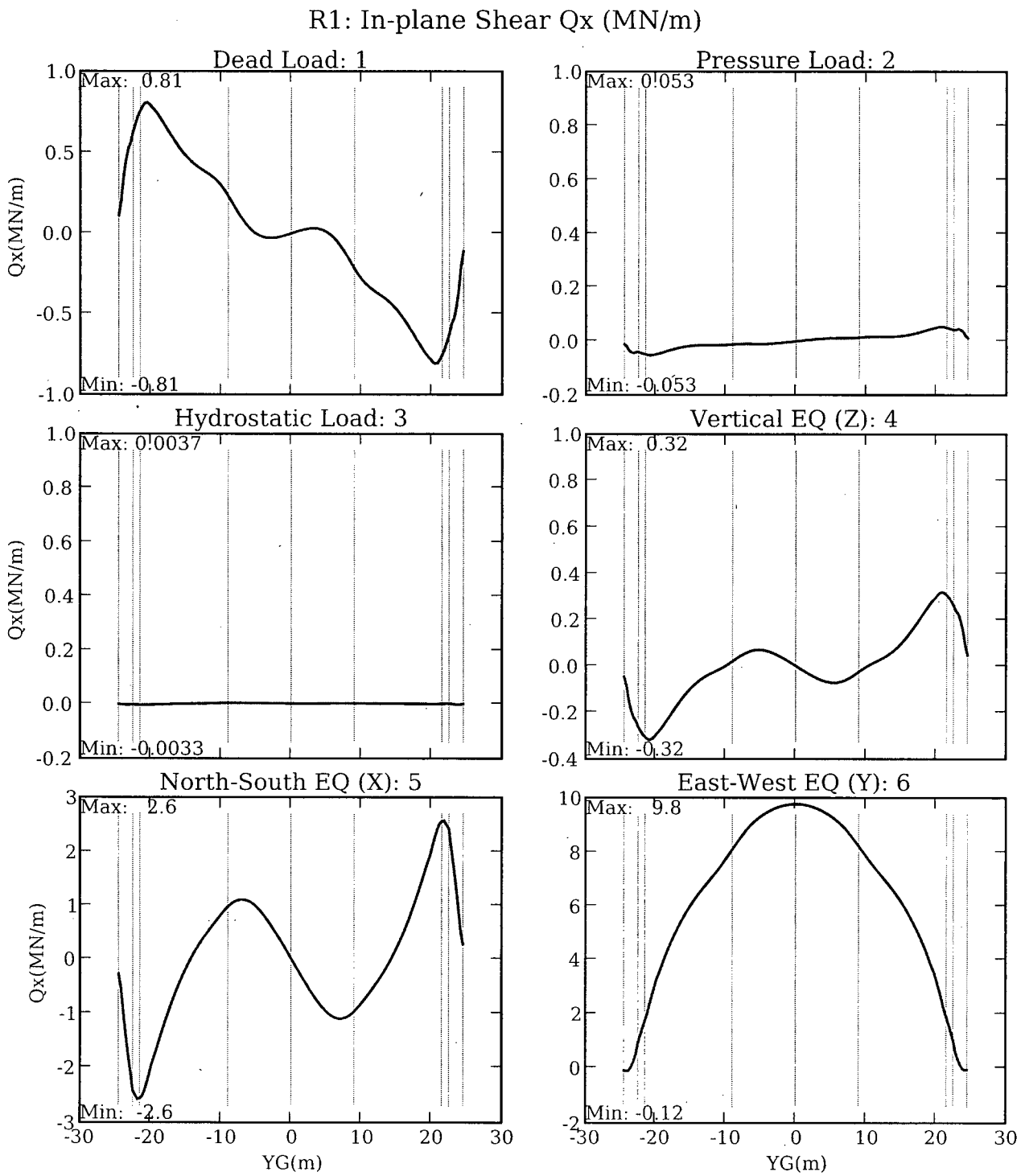

RGFF: In-plane Shear Qx (MN/m)
Dead Load: 1
Max: 0.59
Min: -0.67
Pressure Load: 2
Max: 0.06
Min: -0.069
Hydrostatic Load: 3
Max: 0.033
Min: -0.015
Vertical EQ (Z): 4
Max: 0.32
Min: -0.39
North-South EQ (X): 5
Max: 10
Min: -0.26
East-West EQ (Y): 6
Max: 3.4
Min: -3
Qx(MN/m)
XG(m)

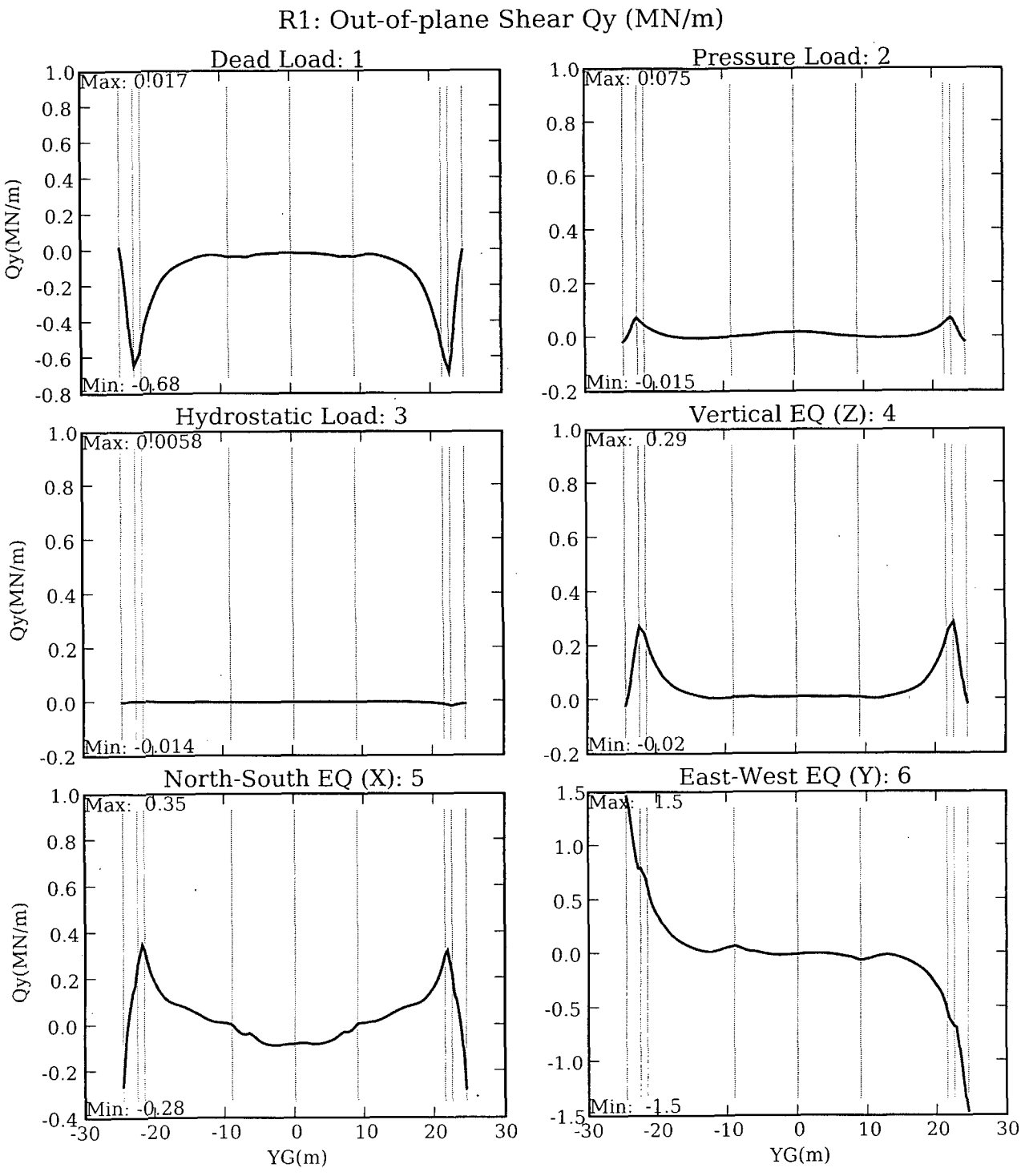

RGFF: Out-of-plane Shear Qy (MN/m)
Dead Load: 1
Max: 0.82
Min: -0.027
Pressure Load: 2
Max: 0.018
Min: -0.079
Hydrostatic Load: 3
Max: 0.054
Min: -0.018
Vertical EQ (Z): 4
Max: 0.017
Min: -0.37
North-South EQ (X): 5
Max: 2.3
Min: -1.6
East-West EQ (Y): 6
Max: 0.21
Min: -1.9
Qy(MN/m)
XG(m)

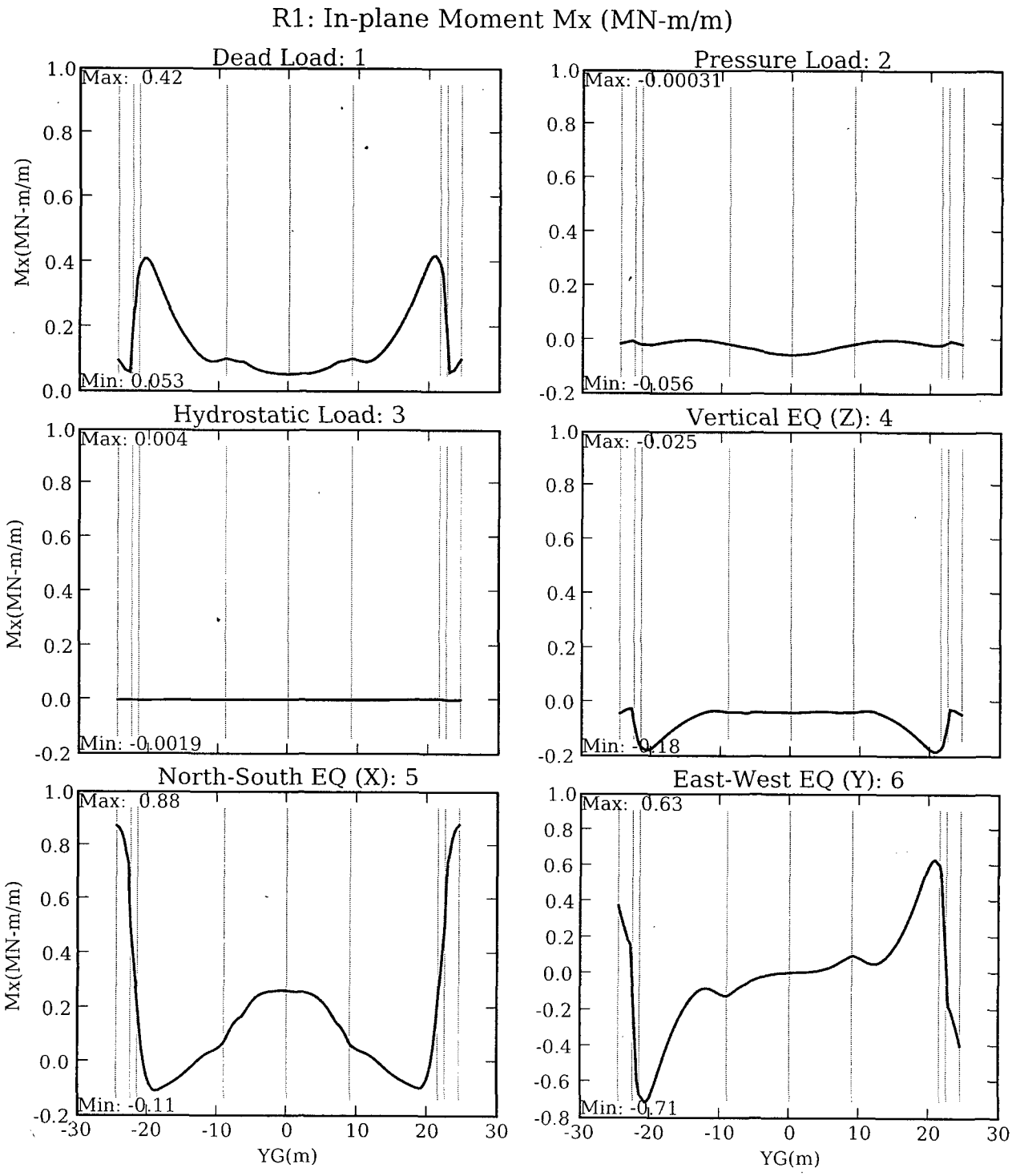

RGFF: In-plane Moment Mx (MN-m/m)
Dead Load: 1
Max: 0.029
Min: -0.52
Pressure Load: 2
Max: 0.061
Min: -0.0059
Hydrostatic Load: 3
Max: 0.0028
Min: -0.013
Vertical EQ (Z): 4
Max: 0.23
Min: -0.022
North-South EQ (X): 5
Max: 0.72
Min: -0.61
East-West EQ (Y): 6
Max: 0.67
Min: -0.97
Mx(MN-m/m)
XG(m)

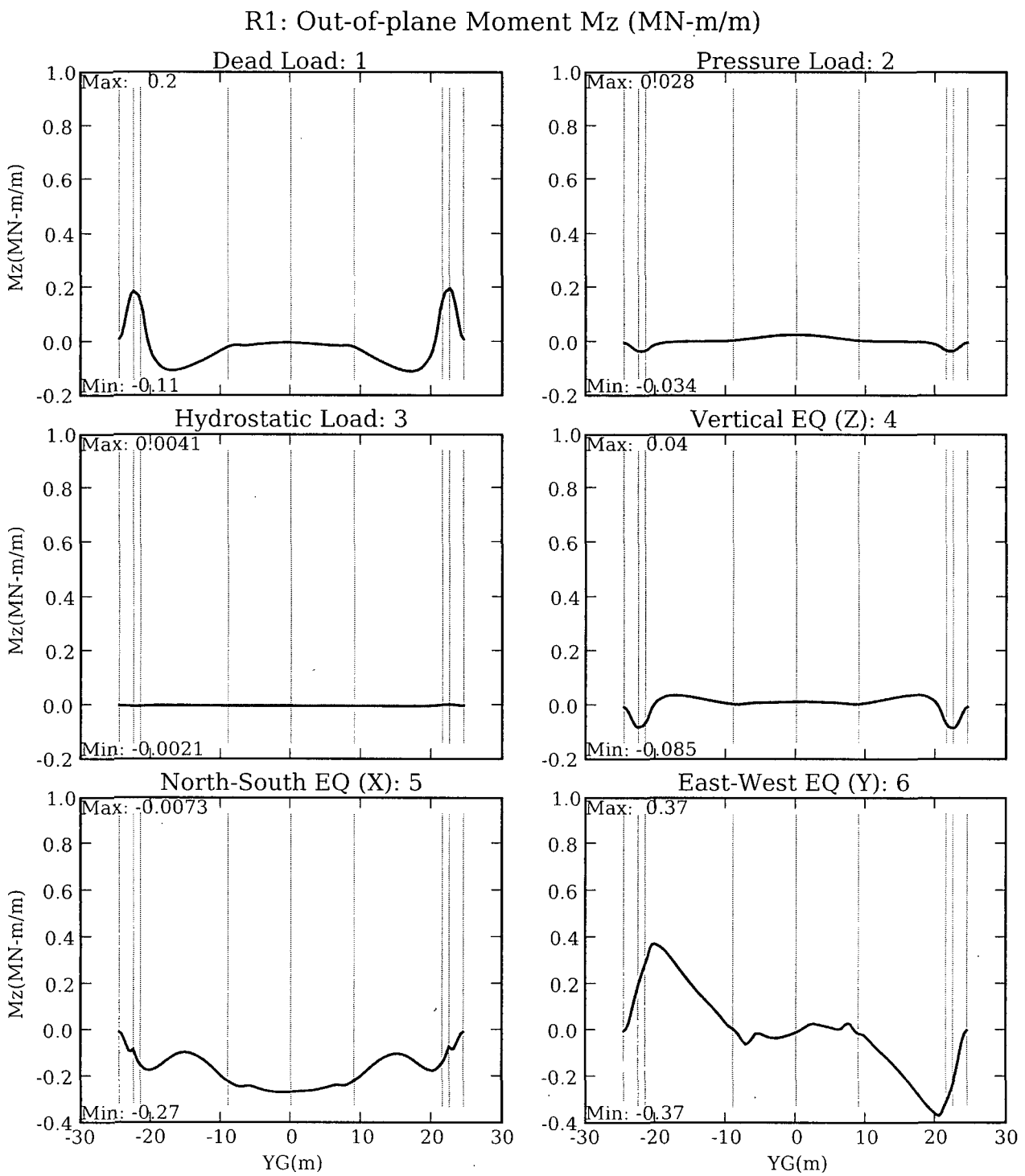

RGFF: Out-of-plane Moment Mz (MN-m/m)
Dead Load: 1
Max: 0.22
Min: -0.2
Pressure Load: 2
Max: 0.033
Min: -0.032
Hydrostatic Load: 3
Max: 0.0081
Min: -0.018
Vertical EQ (Z): 4
Max: 0.1
Min: -0.098
North-South EQ (X): 5
Max: 0.58
Min: -0.84
East-West EQ (Y): 6
Max: 0.47
Min: -0.17
Mz(MN-m/m)
XG(m)

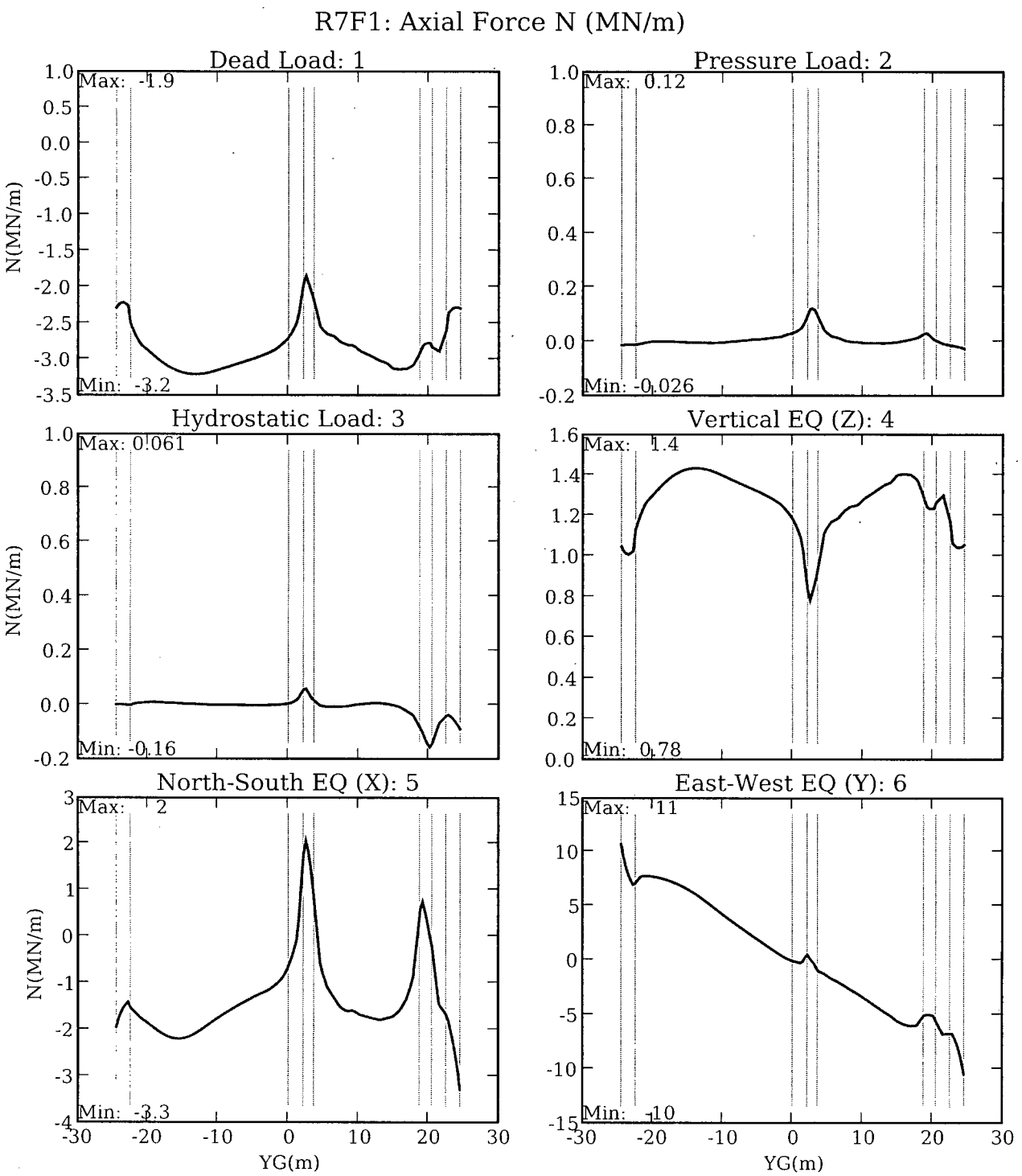

R1: Axial Force N (MN/m)
Dead Load: 1
Max: -1.8
Min: -3
Pressure Load: 2
Max: 0.012
Min: -0.085
Hydrostatic Load: 3
Max: 0.018
Min: -0.0074
Vertical EQ (Z): 4
Max: 1.3
Min: 0.84
North-South EQ (X): 5
Max: 9.2
Min: 6.3
East-West EQ (Y): 6
Max: 13
Min: -13
N(MN/m)
YG(m)

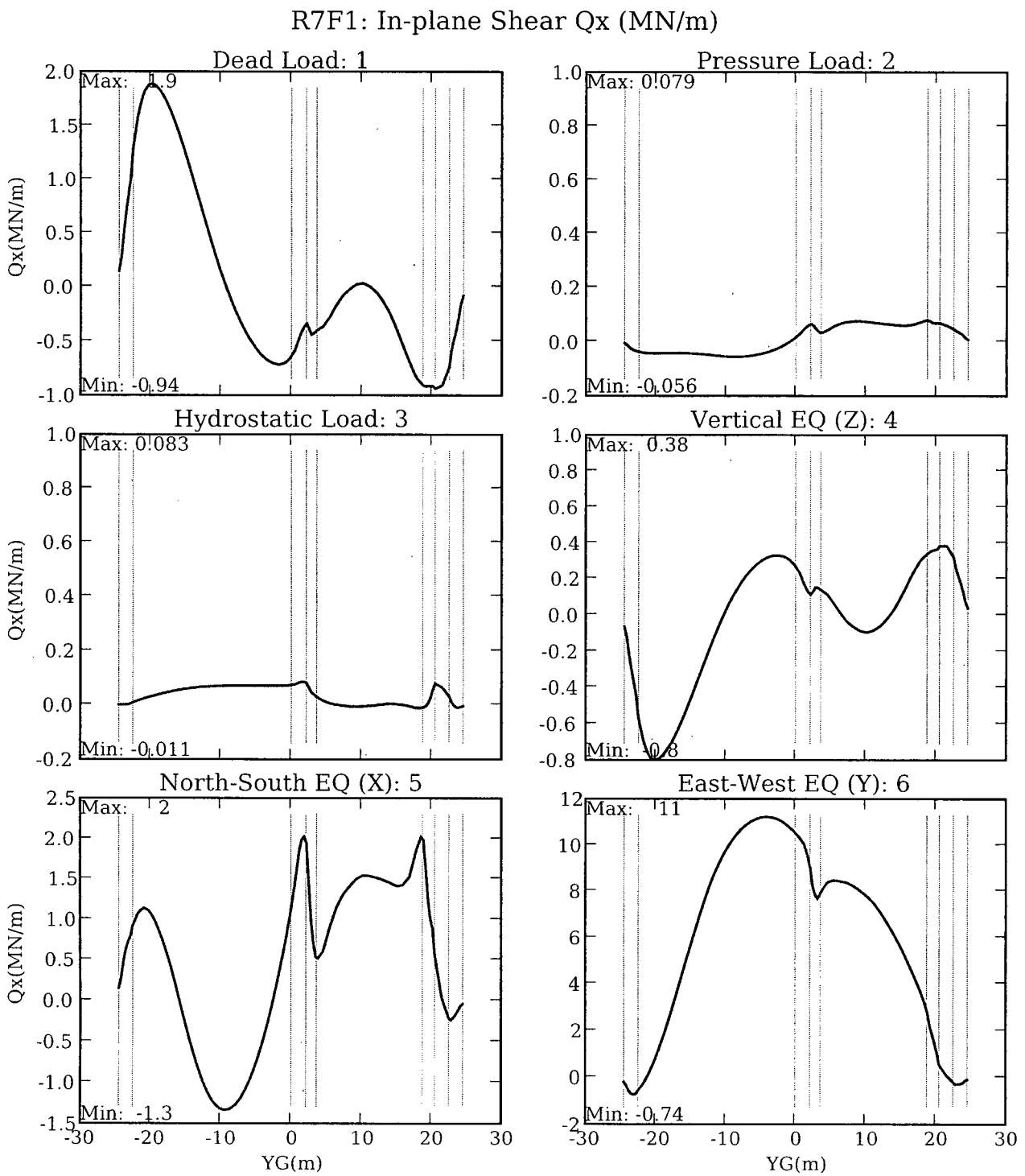

R1: In-plane Shear Qx (MN/m)
Dead Load: 1
Max: 0.81
Min: -0.81
Pressure Load: 2
Max: 0.053
Min: -0.053
Hydrostatic Load: 3
Max: 0.0037
Min: -0.0033
Vertical EQ (Z): 4
Max: 0.32
Min: -0.32
North-South EQ (X): 5
Max: 2.6
Min: -2.6
East-West EQ (Y): 6
Max: 9.8
Min: -0.12
Qx(MN/m)
YG(m)

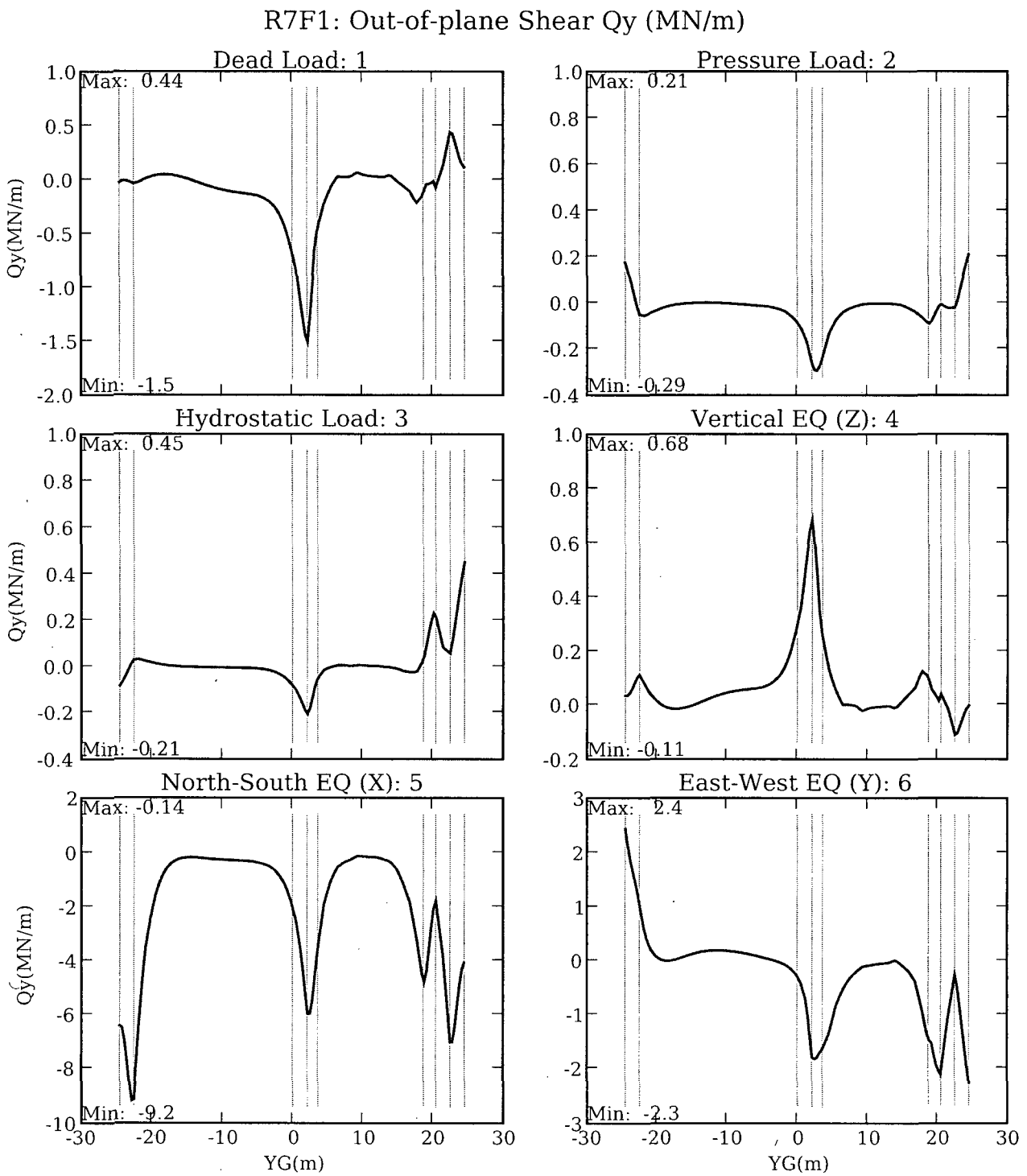

R1: Out-of-plane Shear Qy (MN/m)
Dead Load: 1
Max: 0.017
Min: -0.68
Pressure Load: 2
Max: 0.075
Min: -0.015
Hydrostatic Load: 3
Max: 0.0058
Min: -0.014
Vertical EQ (Z): 4
Max: 0.29
Min: -0.02
North-South EQ (X): 5
Max: 0.35
Min: -0.28
East-West EQ (Y): 6
Max: 1.5
Min: -1.5
Qy(MN/m)
YG(m)

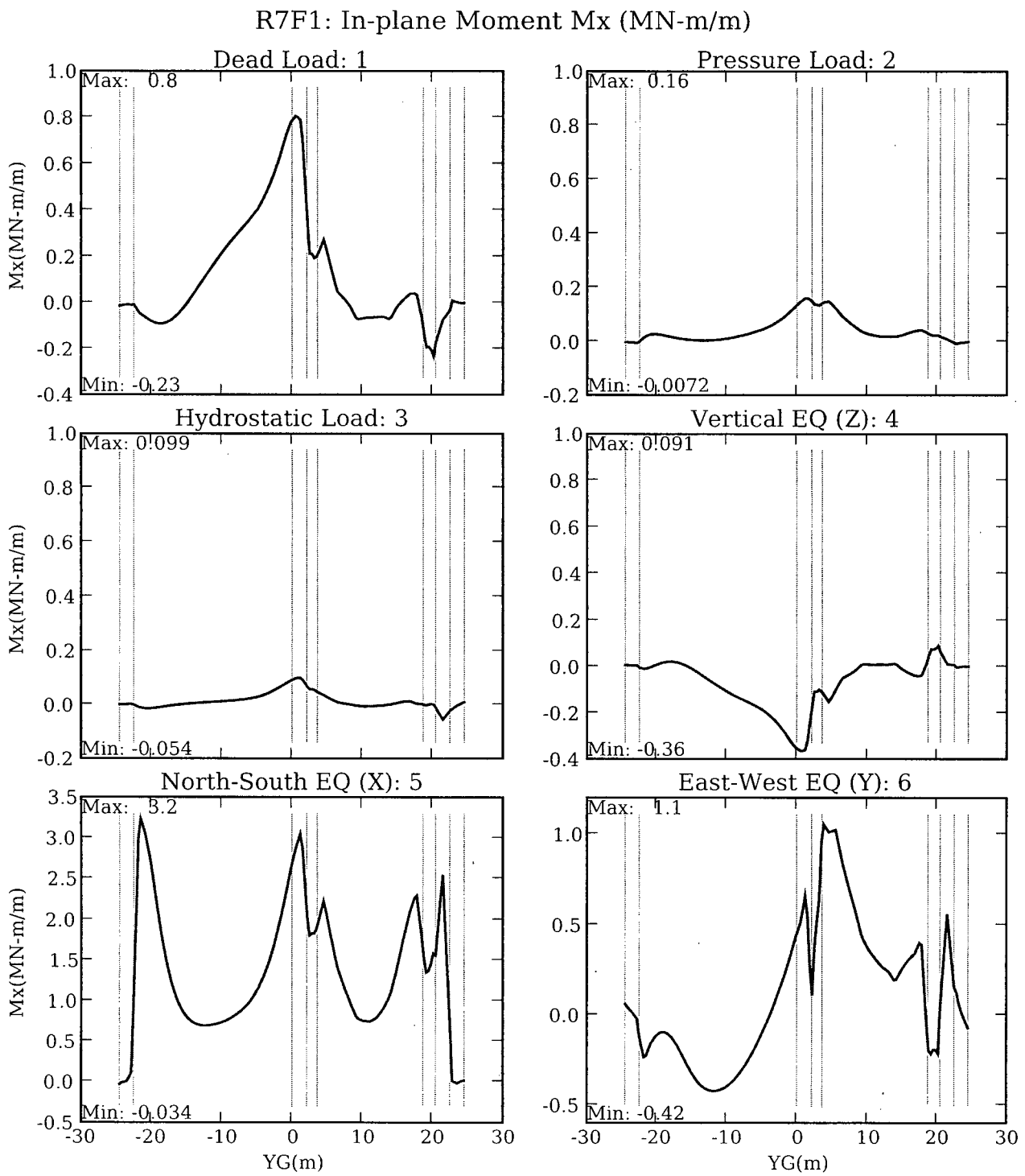

R1: In-plane Moment Mx (MN-m/m)
Dead Load: 1
Max: 0.42
Min: 0.053
Pressure Load: 2
Max: -0.00031
Min: -0.056
Hydrostatic Load: 3
Max: 0.004
Min: -0.0019
Vertical EQ (Z): 4
Max: -0.025
Min: -0.18
North-South EQ (X): 5
Max: 0.88
Min: -0.11
East-West EQ (Y): 6
Max: 0.63
Min: -0.71
Mx(MN-m/m)
YG(m)

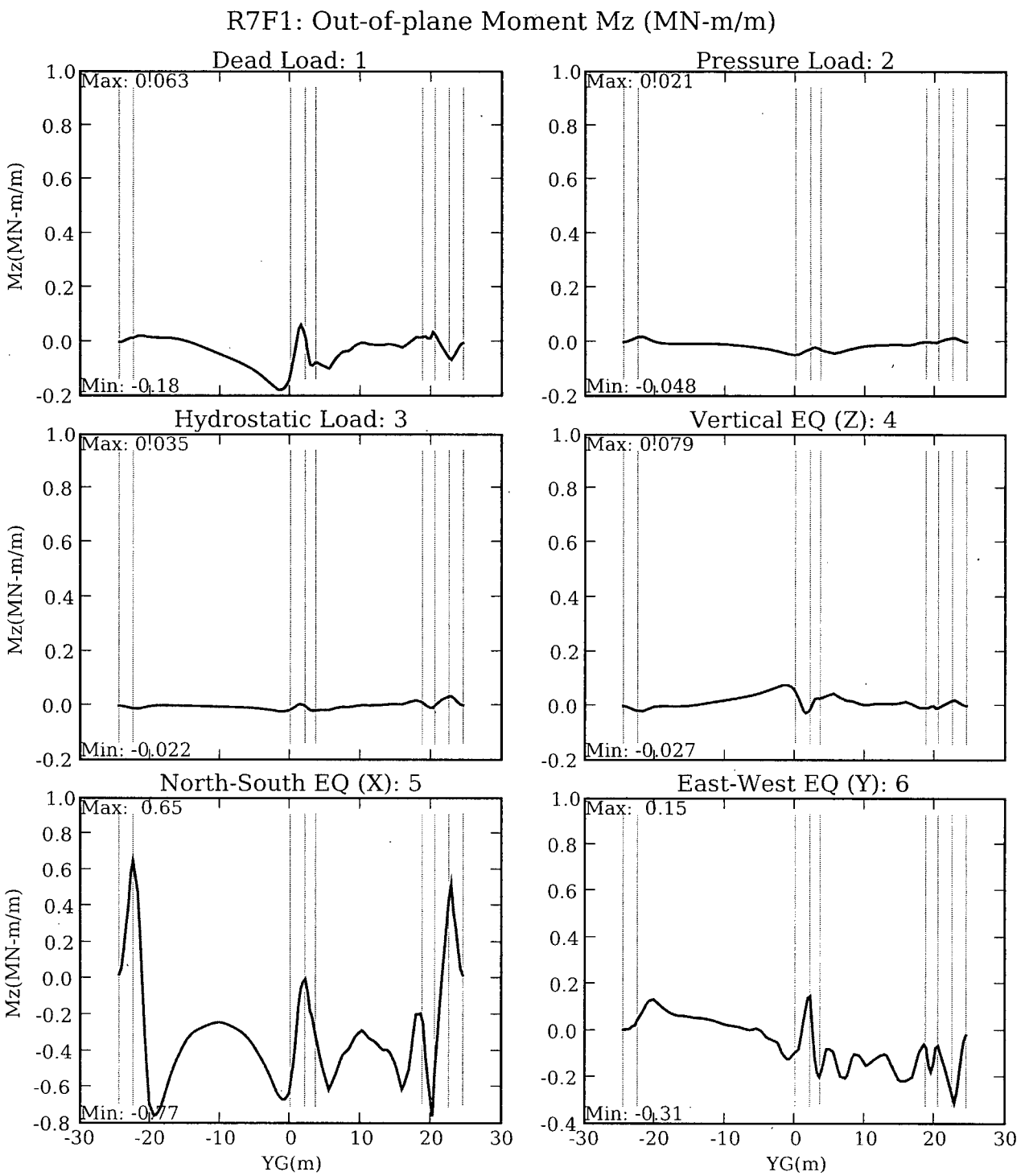

R1: Out-of-plane Moment Mz (MN-m/m)
Dead Load: 1
Max: 0.2
Min: -0.11
Pressure Load: 2
Max: 0.028
Min: -0.034
Hydrostatic Load: 3
Max: 0.0041
Min: -0.0021
Vertical EQ (Z): 4
Max: 0.04
Min: -0.085
North-South EQ (X): 5
Max: -0.0073
Min: -0.27
East-West EQ (Y): 6
Max: 0.37
Min: -0.37
Mz(MN-m/m)
YG(m)

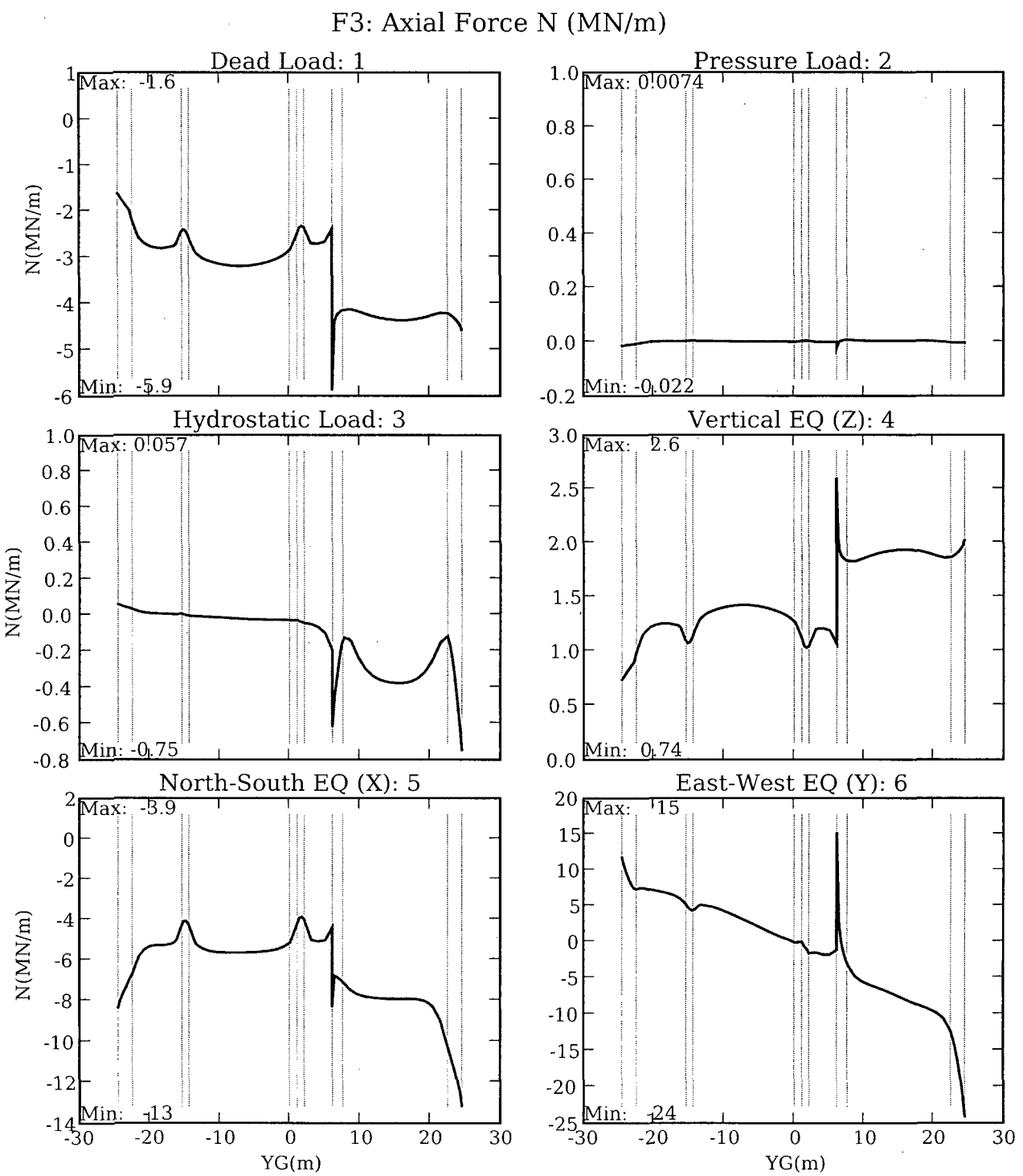

R7F1: Axial Force N (MN/m)
Dead Load: 1
Max: -1.9
Min: -3.2
Pressure Load: 2
Max: 0.12
Min: -0.026
Hydrostatic Load: 3
Max: 0.061
Min: -0.16
Vertical EQ (Z): 4
Max: 1.4
Min: 0.78
North-South EQ (X): 5
Max: 2
Min: -3.3
East-West EQ (Y): 6
Max: 11
Min: -10
N(MN/m)
YG(m)

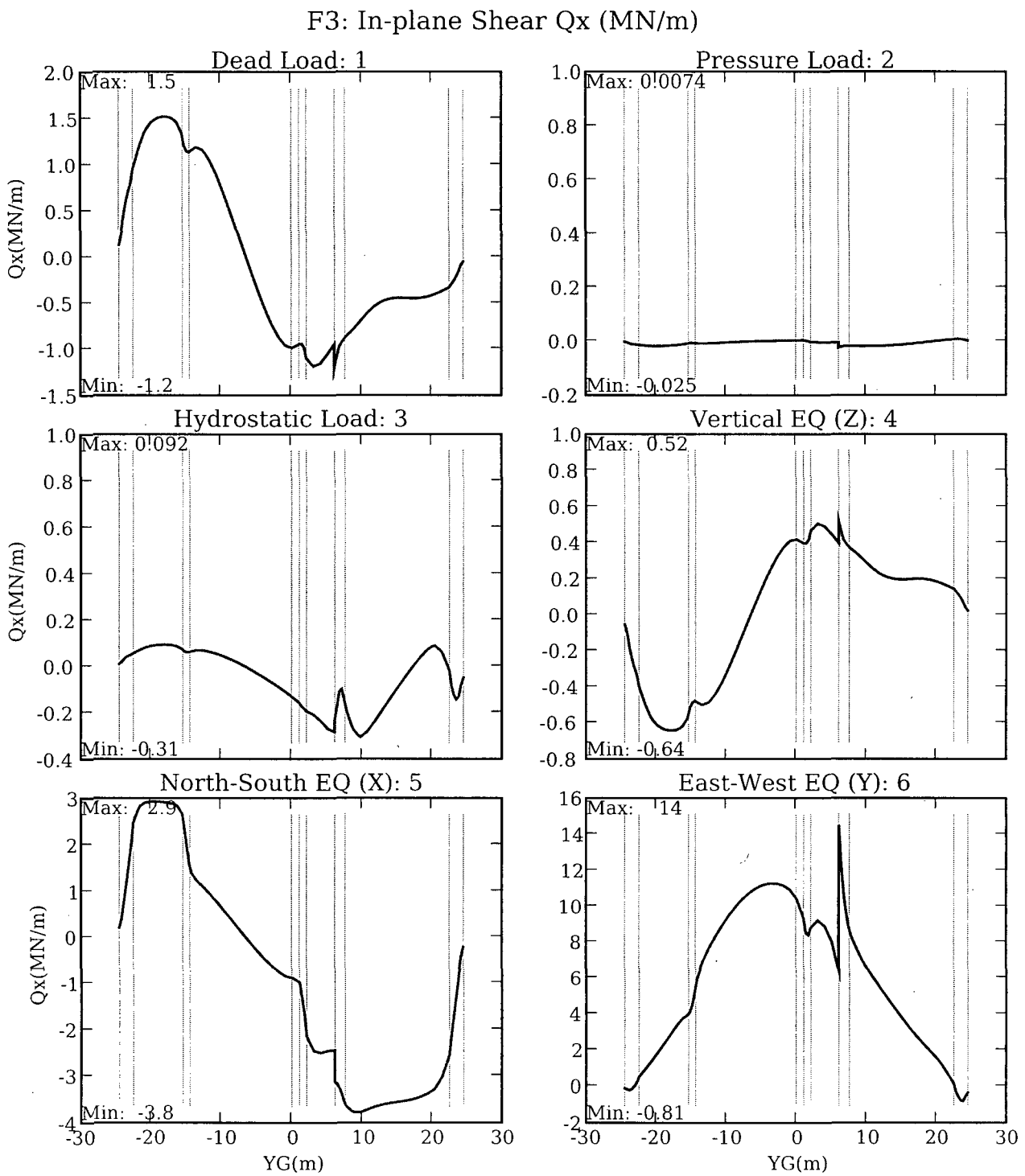

R7F1: In-plane Shear Qx (MN/m)
Dead Load: 1
Max: 1.9
Min: -0.94
Pressure Load: 2
Max: 0.079
Min: -0.056
Hydrostatic Load: 3
Max: 0.083
Min: -0.011
Vertical EQ (Z): 4
Max: 0.38
Min: -0.8
North-South EQ (X): 5
Max: 2
Min: -1.3
East-West EQ (Y): 6
Max: 11
Min: -0.74
Qx(MN/m)
YG(m)

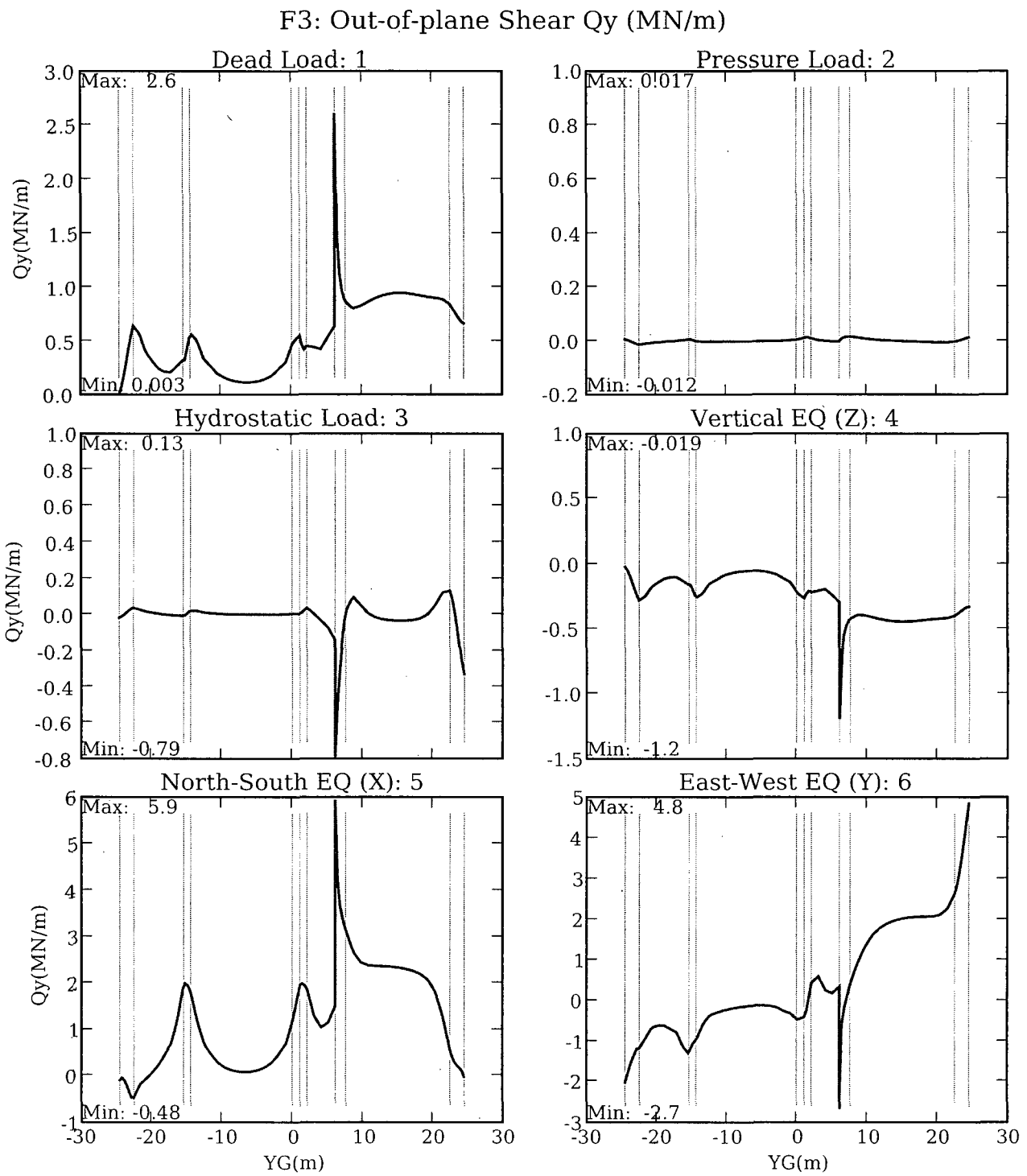

R7F1: Out-of-plane Shear Qy (MN/m)
Dead Load: 1
Max: 0.44
Min: -1.5
Pressure Load: 2
Max: 0.21
Min: -0.29
Hydrostatic Load: 3
Max: 0.45
Min: -0.21
Vertical EQ (Z): 4
Max: 0.68
Min: -0.11
North-South EQ (X): 5
Max: -0.14
Min: -9.2
East-West EQ (Y): 6
Max: 2.4
Min: -2.3
Qy(MN/m)
YG(m)

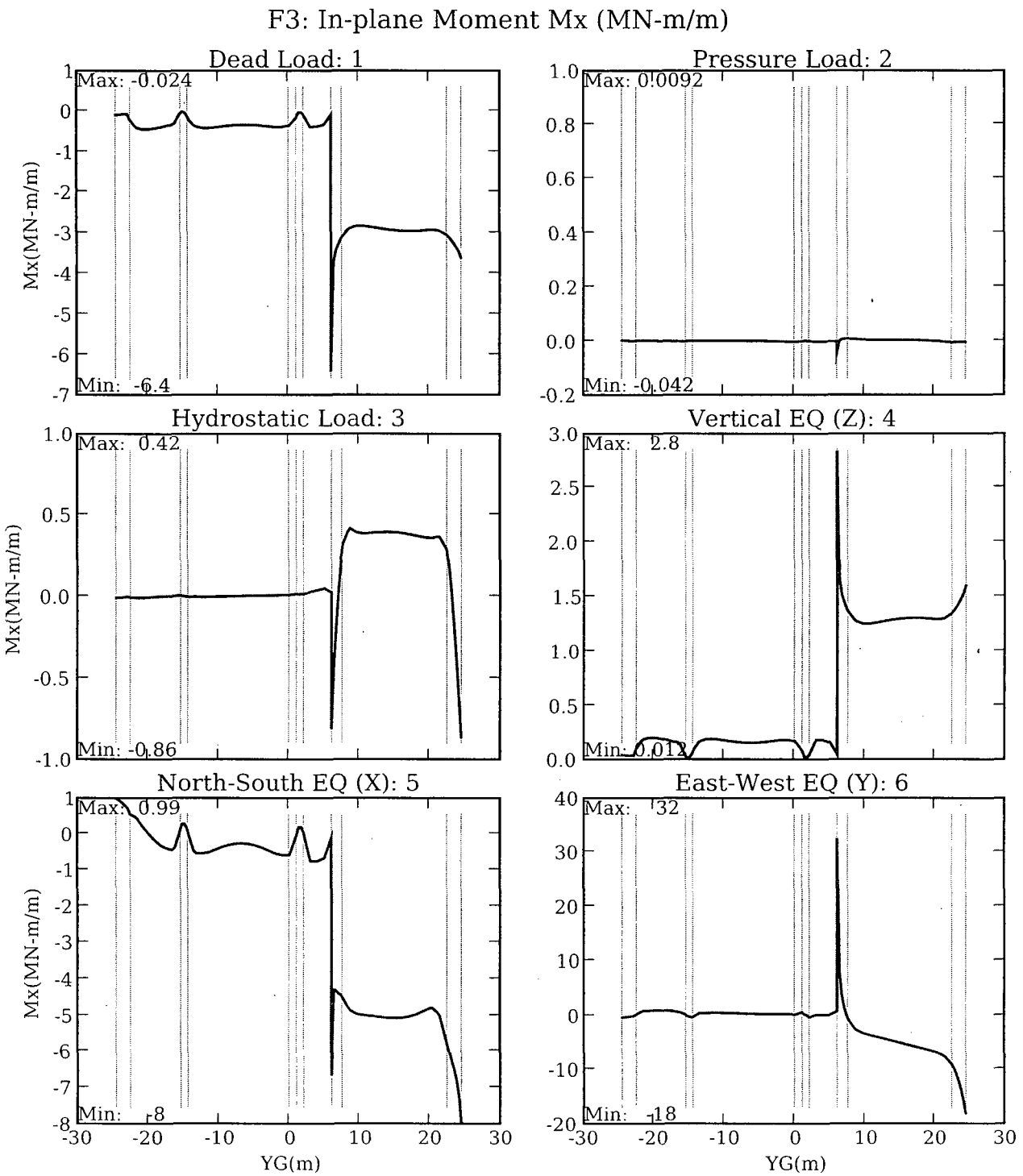

R7F1: In-plane Moment Mx (MN-m/m)
Dead Load: 1
Max: 0.8
Min: -0.23
Pressure Load: 2
Max: 0.16
Min: -0.0072
Hydrostatic Load: 3
Max: 0.099
Min: -0.054
Vertical EQ (Z): 4
Max: 0.091
Min: -0.36
North-South EQ (X): 5
Max: 3.2
Min: -0.034
East-West EQ (Y): 6
Max: 1.1
Min: -0.42
Mx(MN-m/m)
YG(m)

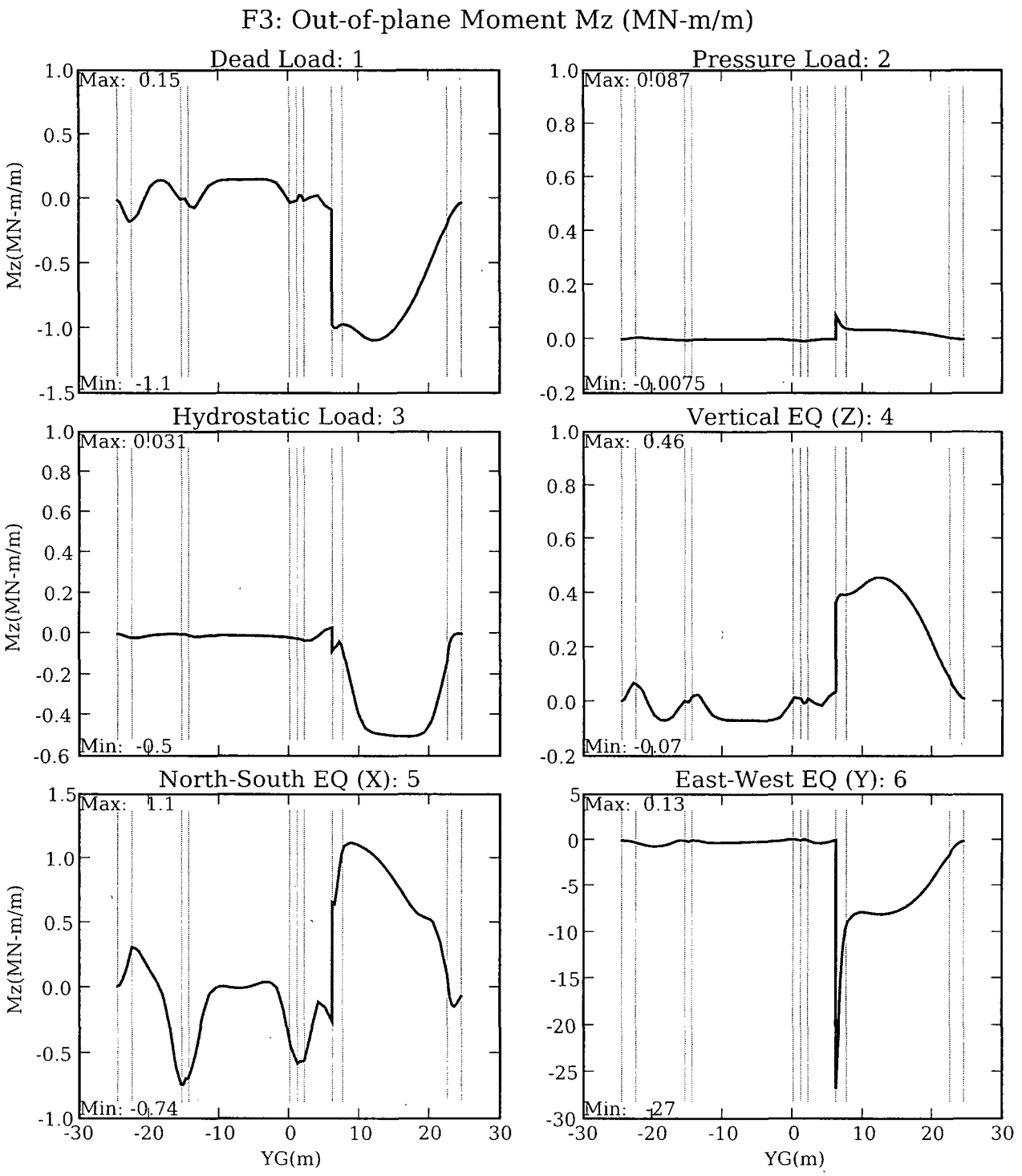

R7F1: Out-of-plane Moment Mz (MN-m/m)
Dead Load: 1
Max: 0.063
Min: -0.18
Pressure Load: 2
Max: 0.021
Min: -0.048
Hydrostatic Load: 3
Max: 0.035
Min: -0.022
Vertical EQ (Z): 4
Max: 0.079
Min: -0.027
North-South EQ (X): 5
Max: 0.65
Min: -0.77
East-West EQ (Y): 6
Max: 0.15
Min: -0.31
Mz(MN-m/m)
YG(m)

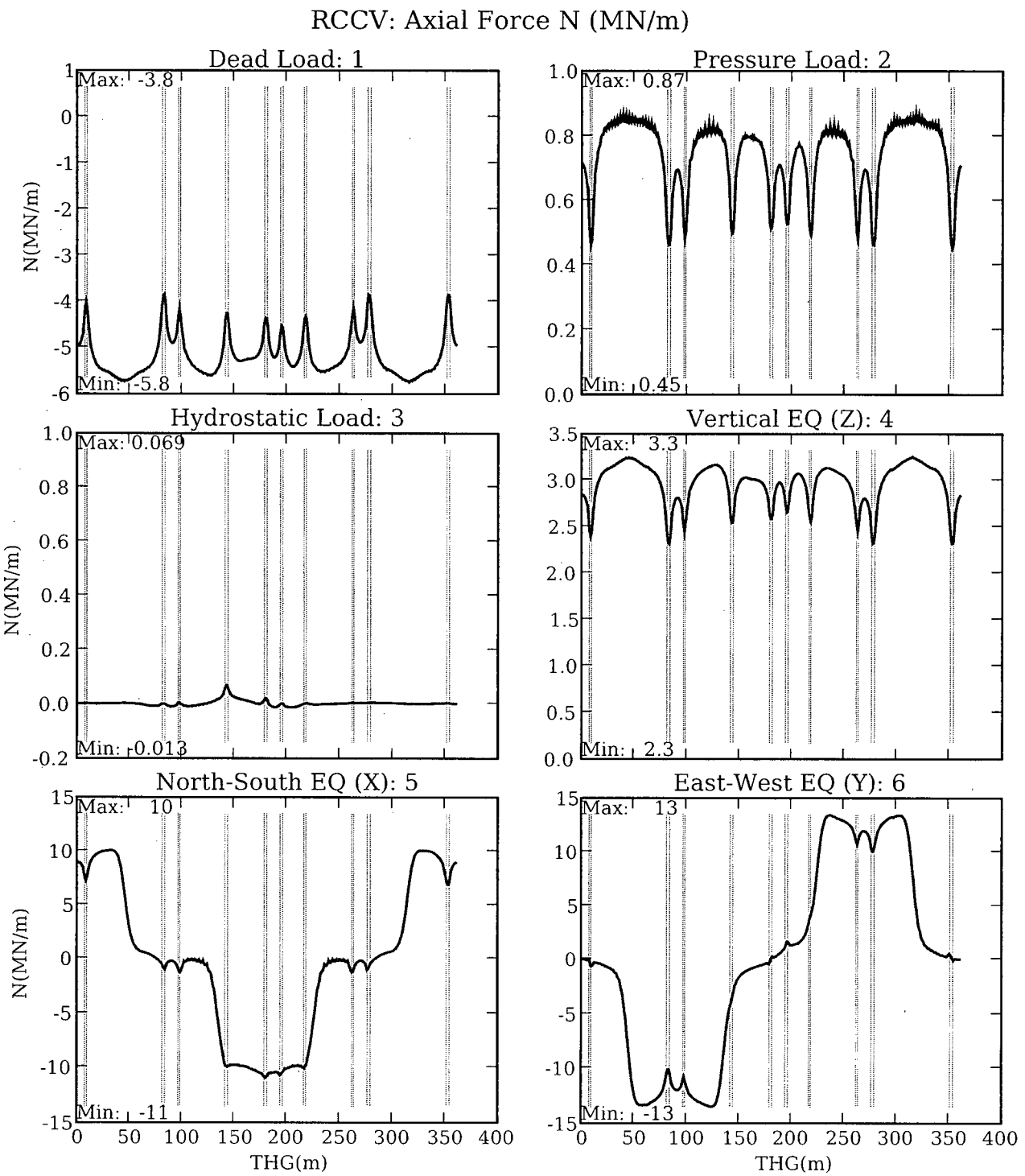

F3: Axial Force N (MN/m)
Dead Load: 1
Max: -1.6
Min: -5.9
Pressure Load: 2
Max: 0.0074
Min: -0.022
Hydrostatic Load: 3
Max: 0.057
Min: -0.75
Vertical EQ (Z): 4
Max: 2.6
Min: 0.74
North-South EQ (X): 5
Max: -3.9
Min: -13
East-West EQ (Y): 6
Max: 15
Min: -24
N(MN/m)
YG(m)

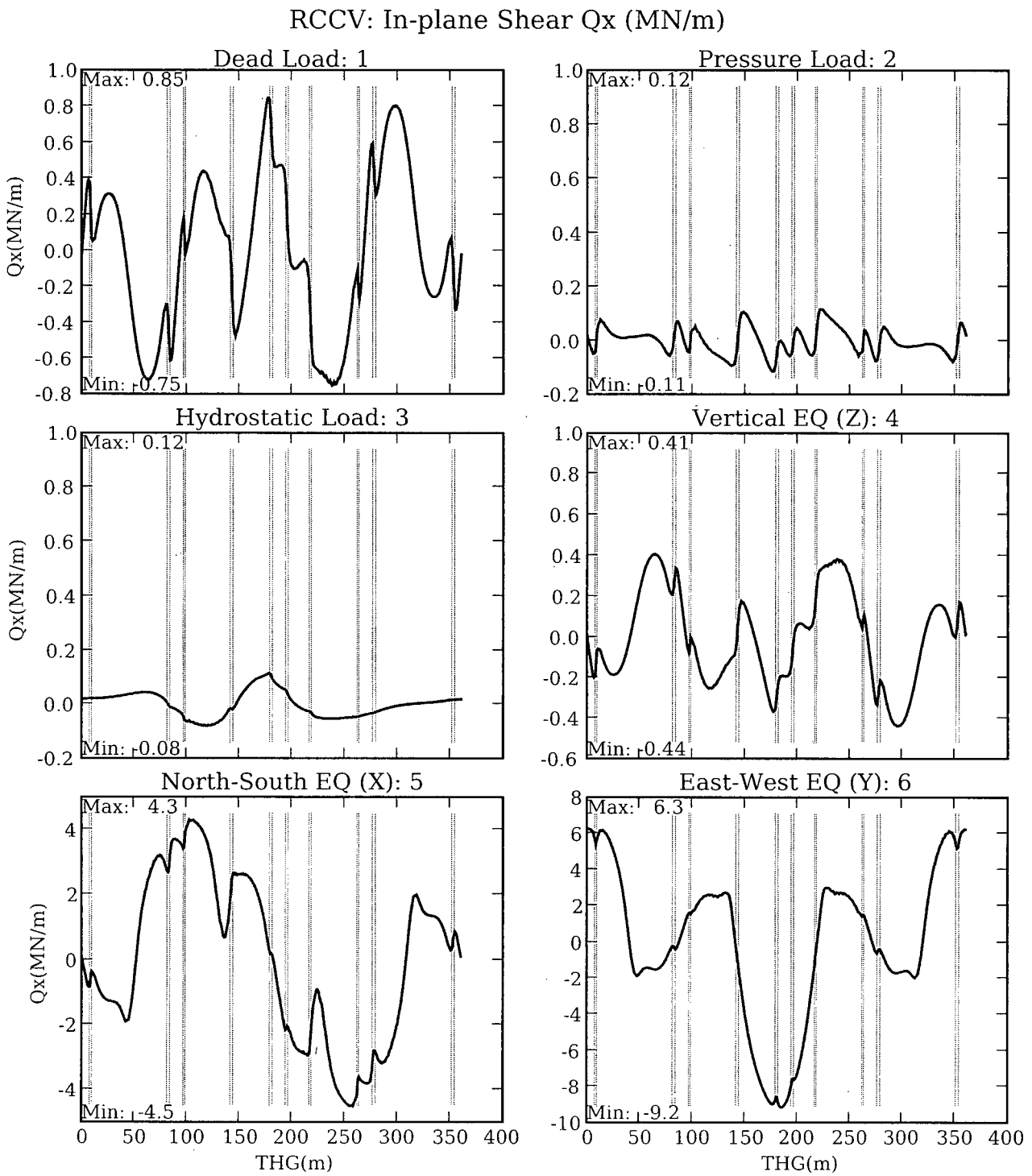

F3: In-plane Shear Qx (MN/m)
Dead Load: 1
Max: 1.5
Min: -1.2
Pressure Load: 2
Max: 0.0074
Min: -0.025
Hydrostatic Load: 3
Max: 0.092
Min: -0.31
Vertical EQ (Z): 4
Max: 0.52
Min: -0.64
North-South EQ (X): 5
Max: 2.9
Min: -3.8
East-West EQ (Y): 6
Max: 14
Min: -0.81
Qx(MN/m)
YG(m)

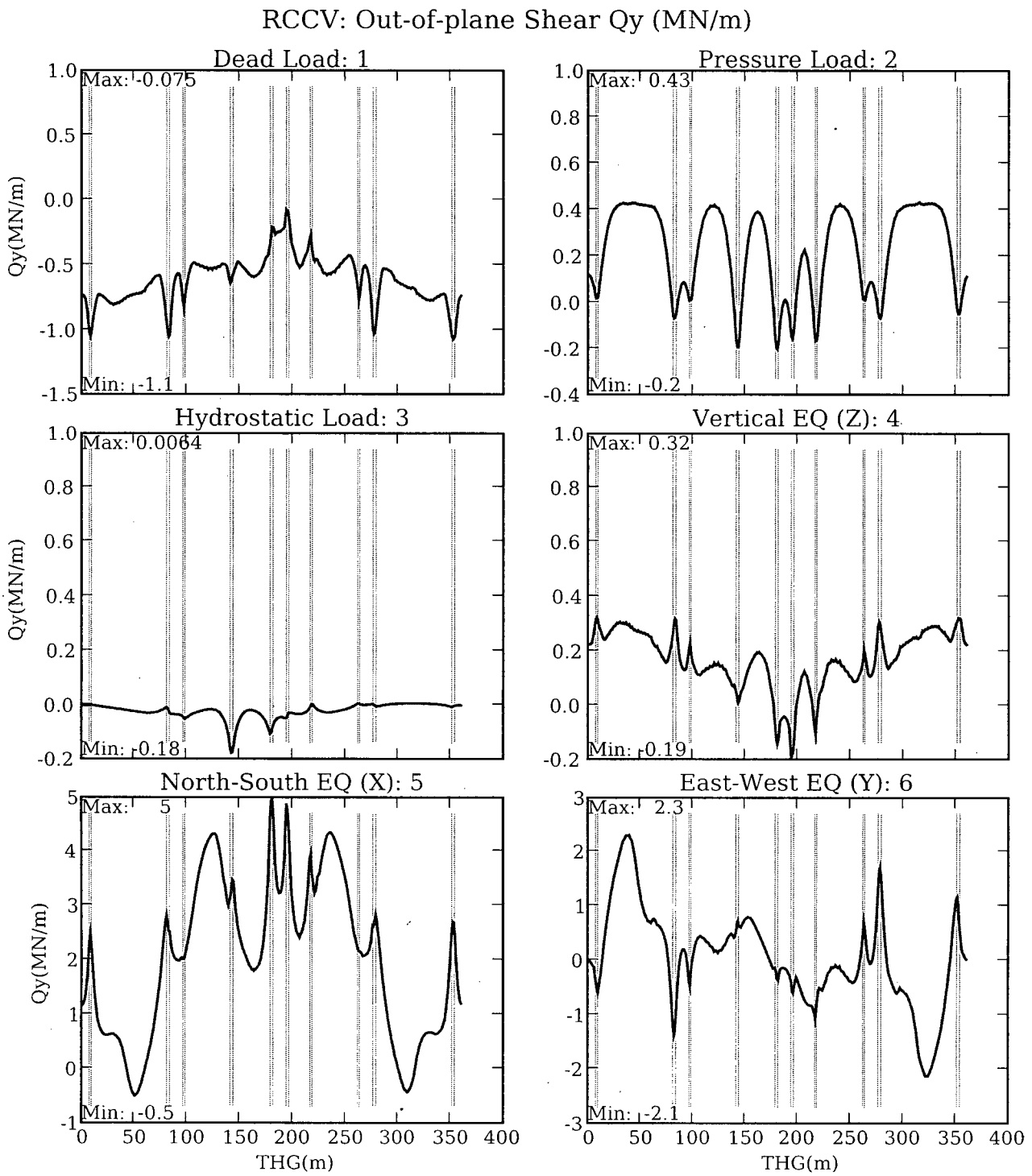

F3: Out-of-plane Shear Qy (MN/m)
Dead Load: 1
Max: 2.6
Min: 0.003
Pressure Load: 2
Max: 0.017
Min: -0.012
Hydrostatic Load: 3
Max: 0.13
Min: -0.79
Vertical EQ (Z): 4
Max: -0.019
Min: -1.2
North-South EQ (X): 5
Max: 5.9
Min: -0.48
East-West EQ (Y): 6
Max: 4.8
Min: -2.7
Qy(MN/m)
YG(m)

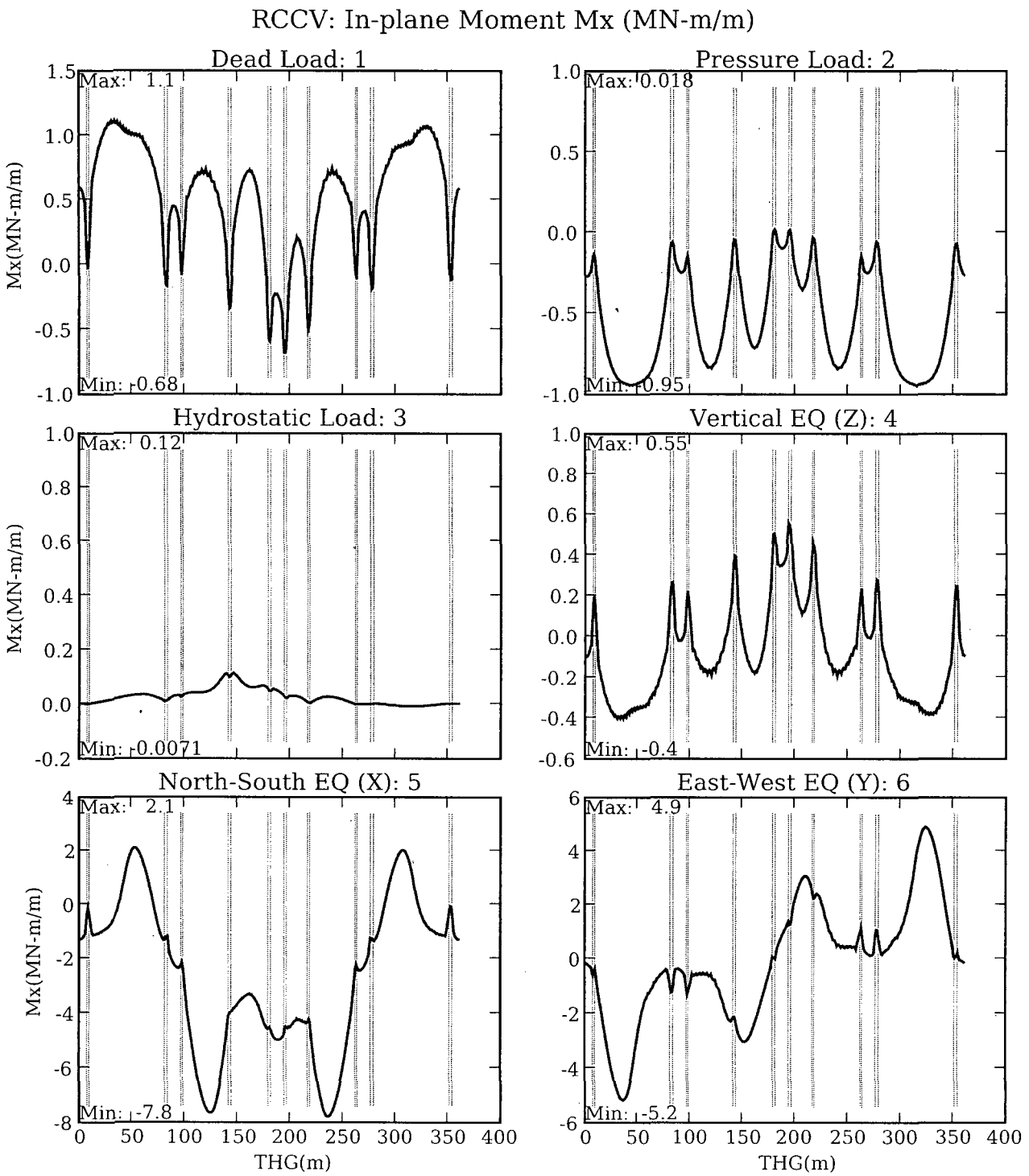

F3: In-plane Moment Mx (MN-m/m)
Dead Load: 1
Max: -0.024
Min: -6.4
Pressure Load: 2
Max: 0.0092
Min: -0.042
Hydrostatic Load: 3
Max: 0.42
Min: -0.86
Vertical EQ (Z): 4
Max: 2.8
Min: 0.012
North-South EQ (X): 5
Max: 0.99
Min: -8
East-West EQ (Y): 6
Max: 32
Min: -18
Mx(MN-m/m)
YG(m)

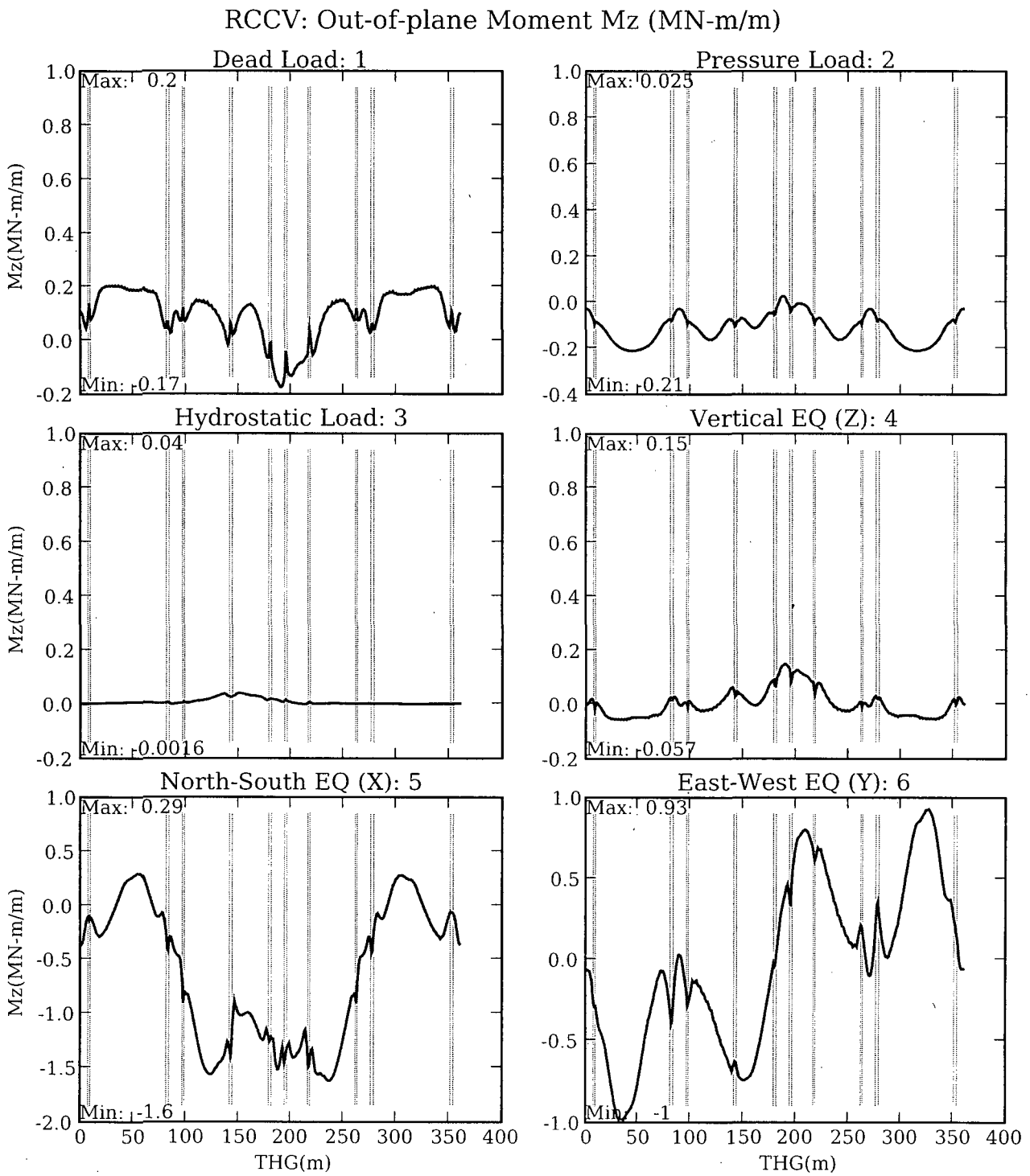

F3: Out-of-plane Moment Mz (MN-m/m)
Dead Load: 1
Max: 0.15
Min: -1.1
Pressure Load: 2
Max: 0.087
Min: -0.0075
Hydrostatic Load: 3
Max: 0.031
Min: -0.5
Vertical EQ (Z): 4
Max: 0.46
Min: -0.07
North-South EQ (X): 5
Max: 1.1
Min: -0.74
East-West EQ (Y): 6
Max: 0.13
Min: -27
Mz(MN-m/m)
YG(m)

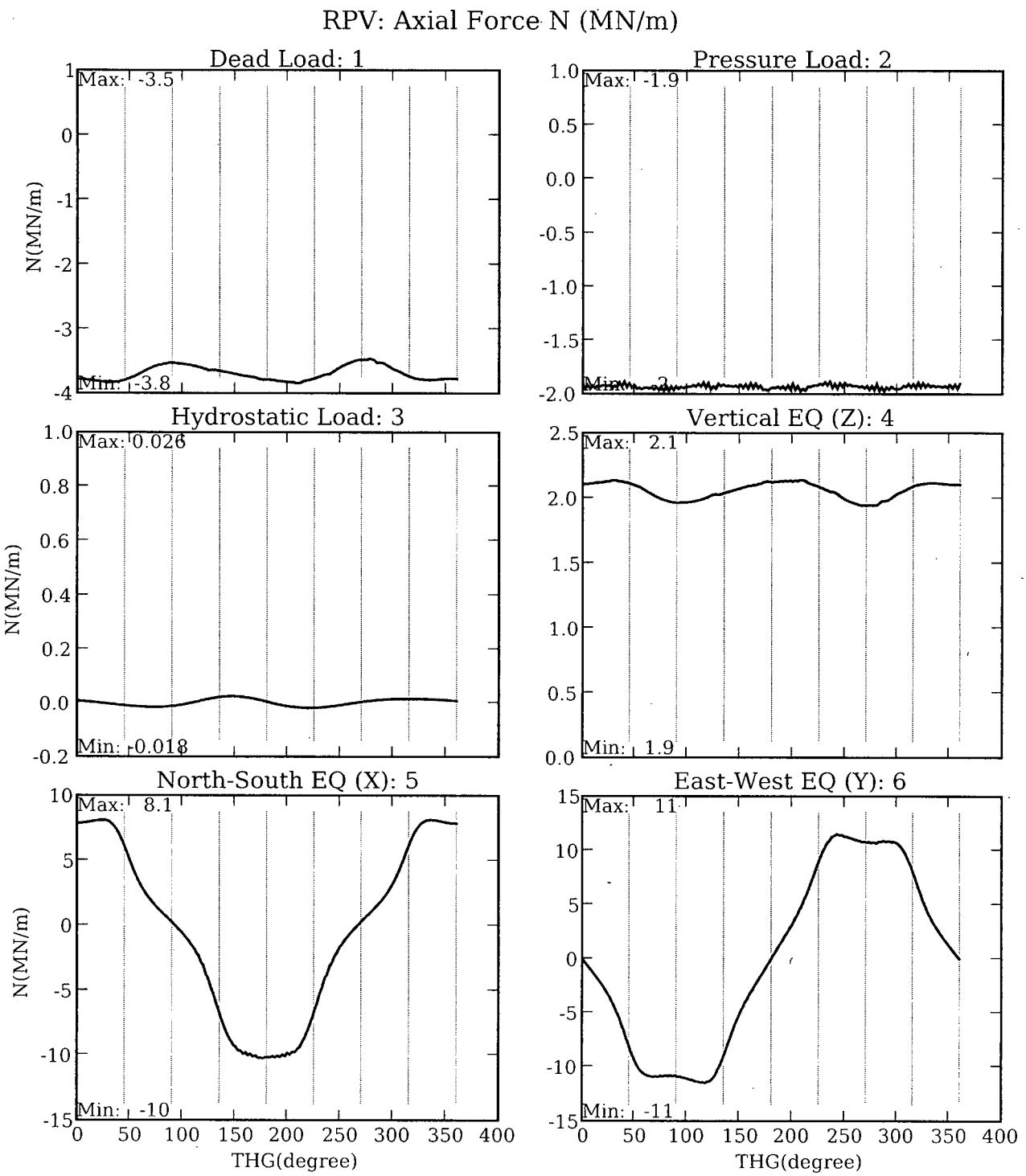

RCCV: Axial Force N (MN/m)
Dead Load: 1
Max: -3.8
Min: -5.8
Pressure Load: 2
Max: 0.87
Min: 0.45
Hydrostatic Load: 3
Max: 0.069
Min: -0.013
Vertical EQ (Z): 4
Max: 3.3
Min: 2.3
North-South EQ (X): 5
Max: 10
Min: -11
East-West EQ (Y): 6
Max: 13
Min: -13
N(MN/m)
THG(m)

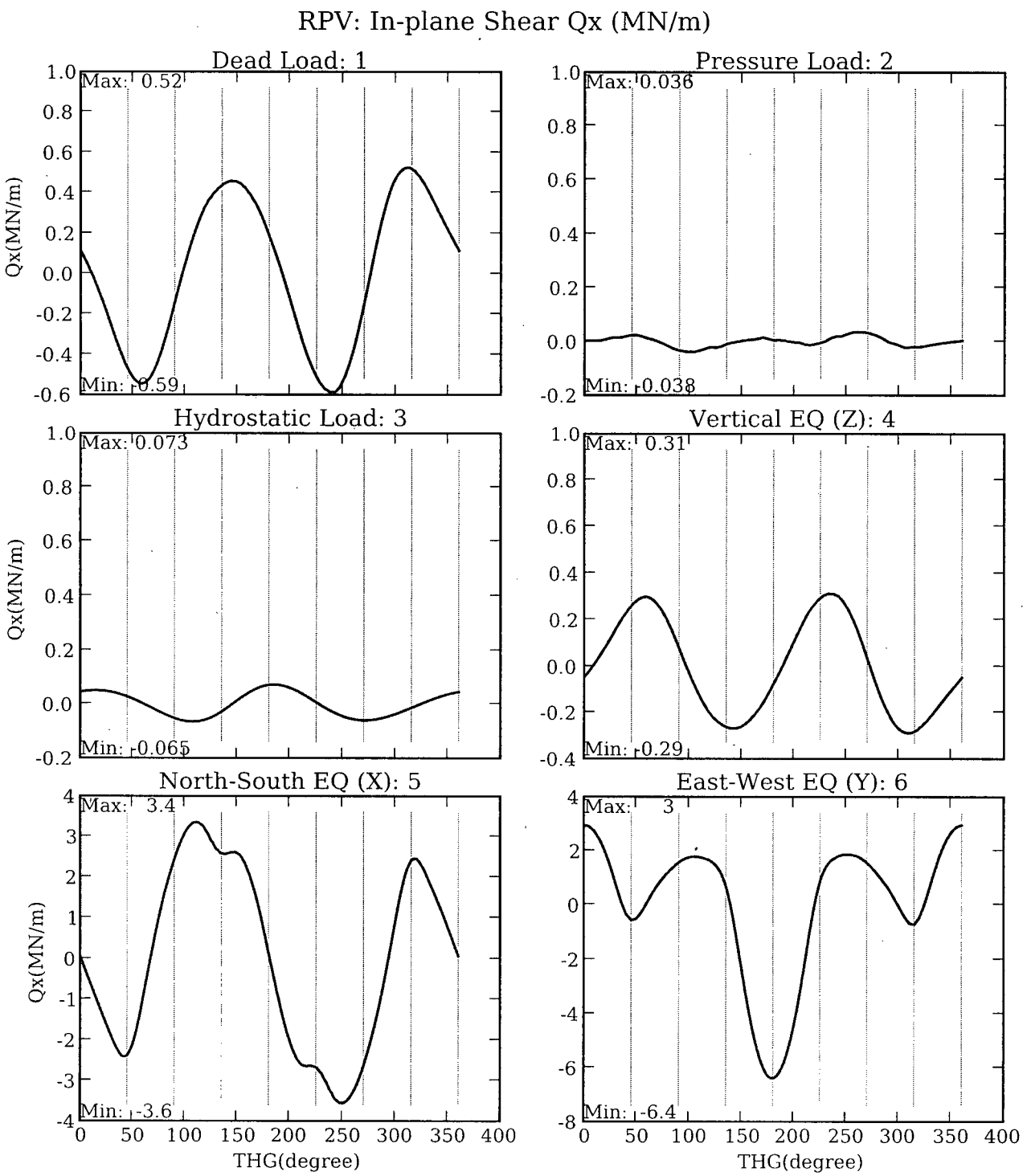

RCCV: In-plane Shear Qx (MN/m)
Dead Load: 1
Max: 0.85
Min: -0.75
Pressure Load: 2
Max: 0.12
Min: -0.11
Hydrostatic Load: 3
Max: 0.12
Min: -0.08
Vertical EQ (Z): 4
Max: 0.41
Min: -0.44
North-South EQ (X): 5
Max: 4.3
Min: -4.5
East-West EQ (Y): 6
Max: 6.3
Min: -9.2
Qx(MN/m)
THG(m)

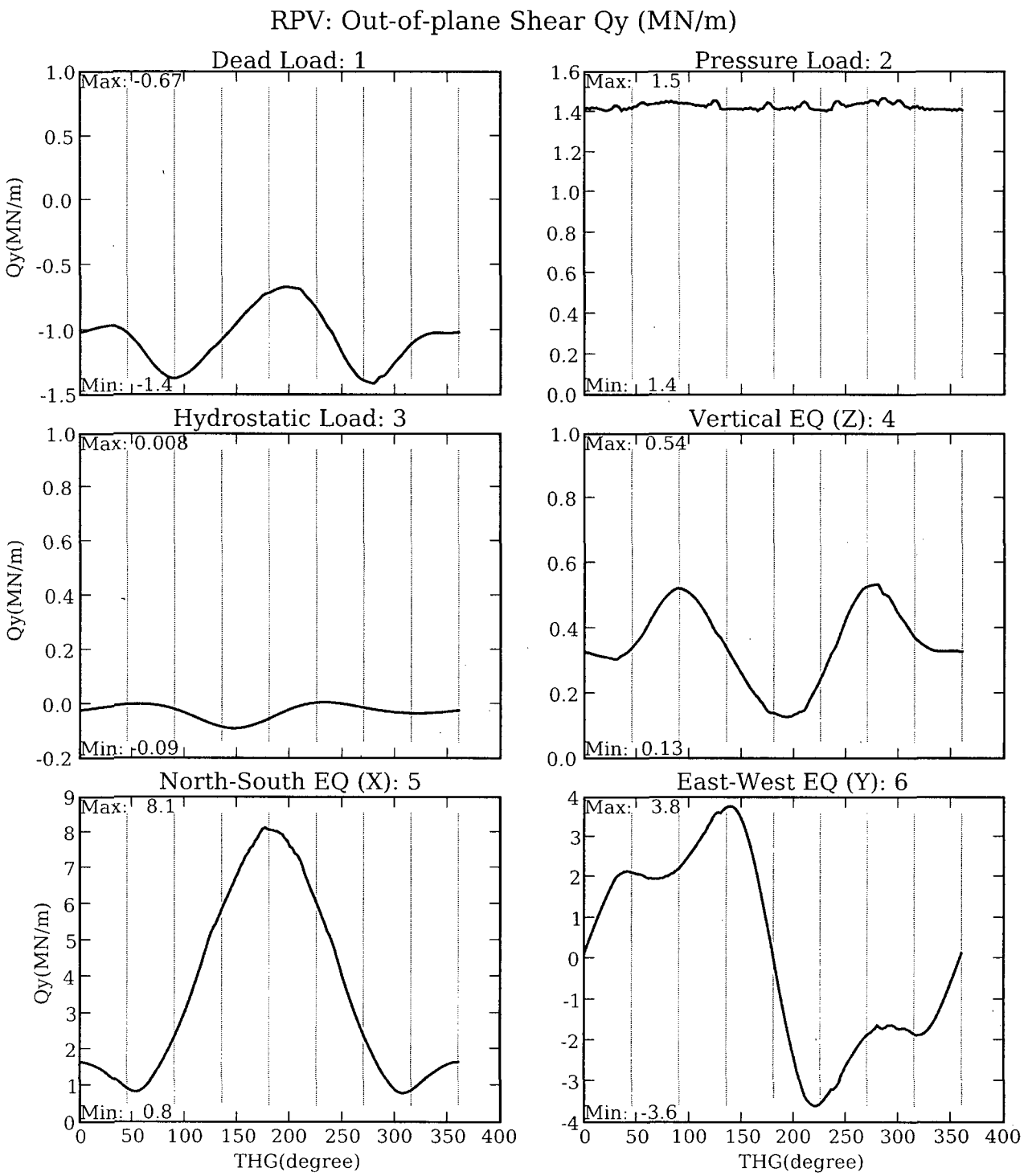

RCCV: Out-of-plane Shear Qy (MN/m)
Dead Load: 1
Max: -0.075
Min: -1.1
Pressure Load: 2
Max: 0.43
Min: -0.2
Hydrostatic Load: 3
Max: 0.0064
Min: -0.18
Vertical EQ (Z): 4
Max: 0.32
Min: -0.19
North-South EQ (X): 5
Max: 5
Min: -0.5
East-West EQ (Y): 6
Max: 2.3
Min: -2.1
Qy(MN/m)
THG(m)

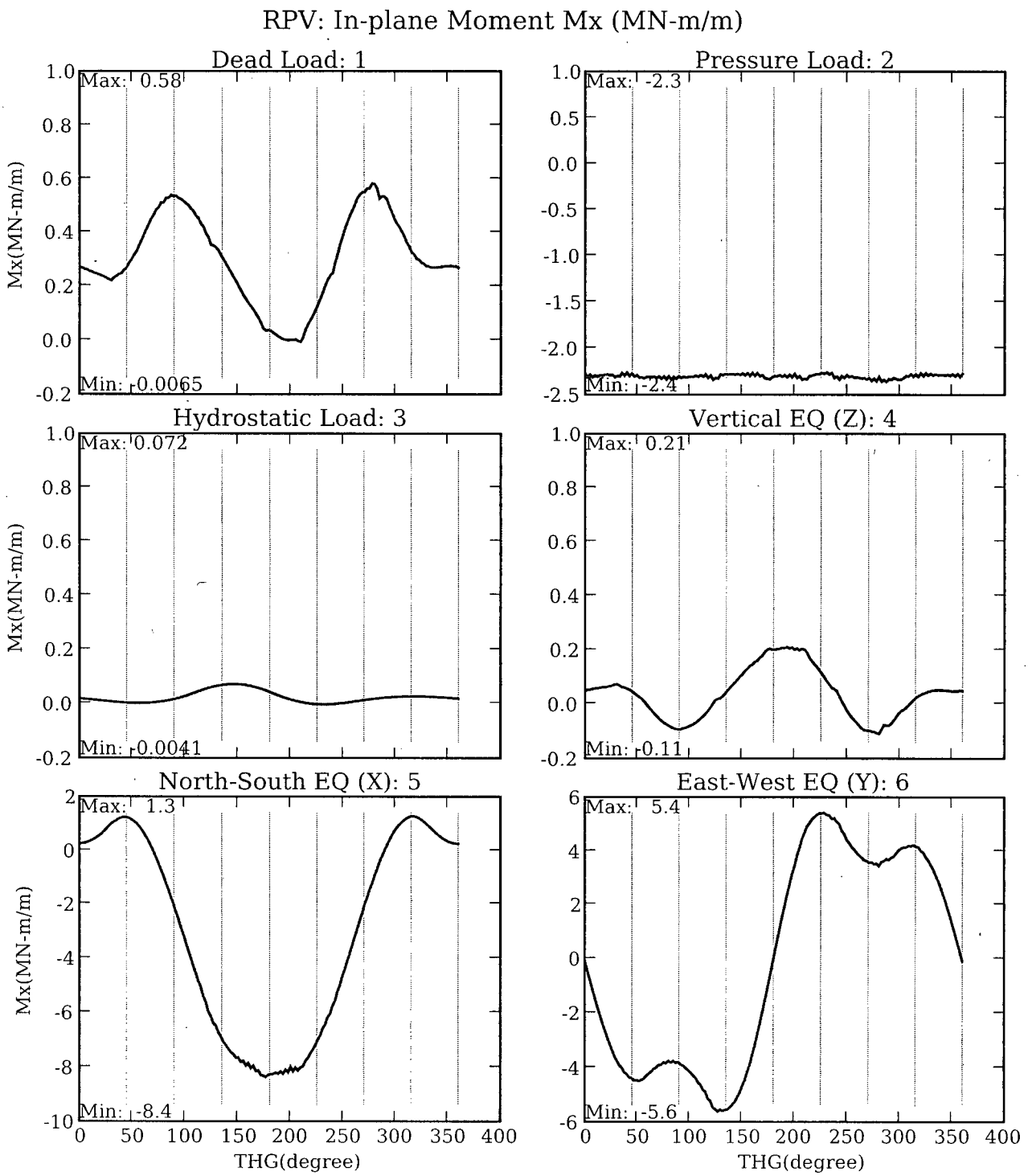

RCCV: In-plane Moment Mx (MN-m/m)
Dead Load: 1
Max: 1.1
Min: -0.68
Pressure Load: 2
Max: 0.018
Min: -0.95
Hydrostatic Load: 3
Max: 0.12
Min: -0.0071
Vertical EQ (Z): 4
Max: 0.55
Min: -0.4
North-South EQ (X): 5
Max: 2.1
Min: -7.8
East-West EQ (Y): 6
Max: 4.9
Min: -5.2
Mx(MN-m/m)
THG(m)

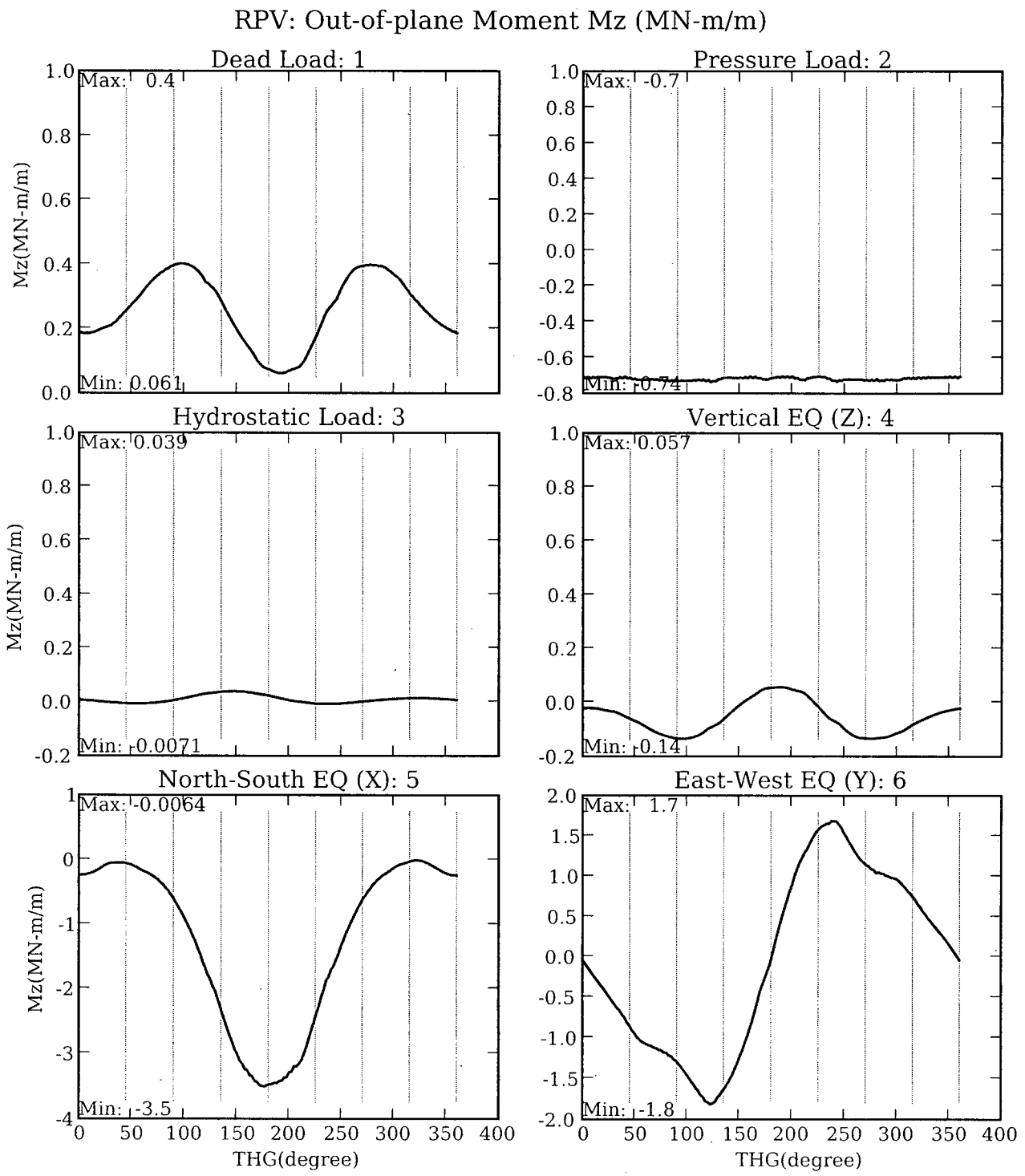

RCCV: Out-of-plane Moment Mz (MN-m/m)
Dead Load: 1
Max: 0.2
Min: 0.17
Pressure Load: 2
Max: 0.025
Min: 0.21
Hydrostatic Load: 3
Max: 0.04
Min: 0.0016
Vertical EQ (Z): 4
Max: 0.15
Min: 0.057
North-South EQ (X): 5
Max: 0.29
Min: -1.6
East-West EQ (Y): 6
Max: 0.93
Min: -1
Mz(MN-m/m)
THG(m)

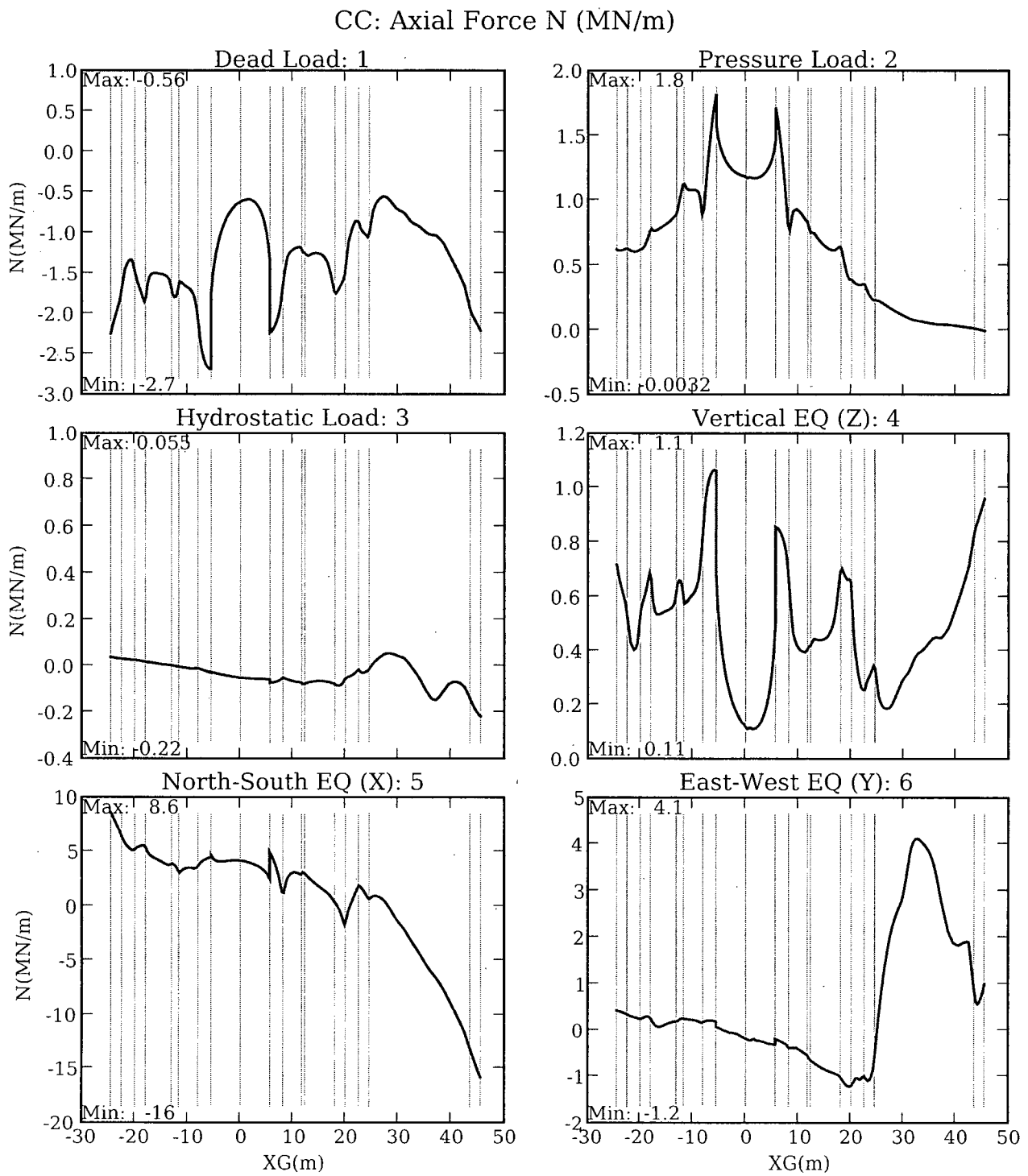

RPV: Axial Force N (MN/m)
Dead Load: 1
Max: -3.5
Min: -3.8
Pressure Load: 2
Max: -1.9
Min: -2
Hydrostatic Load: 3
Max: 0.026
Min: -0.018
Vertical EQ (Z): 4
Max: 2.1
Min: 1.9
North-South EQ (X): 5
Max: 8.1
Min: -10
East-West EQ (Y): 6
Max: 11
Min: -11
N(MN/m)
THG(degree)

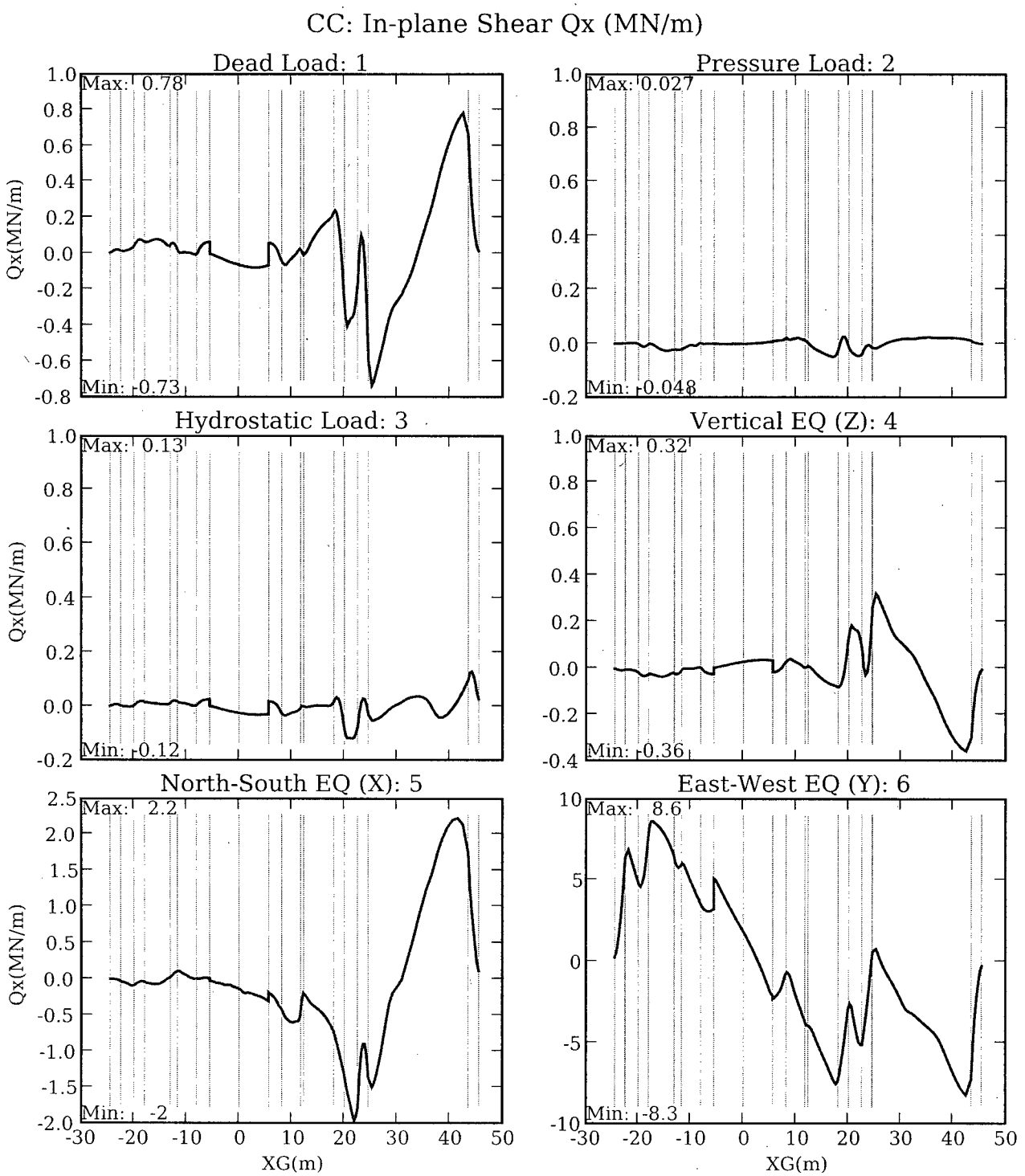

RPV: In-plane Shear Qx (MN/m)
Dead Load: 1
Max: 0.52
Min: -0.59
Pressure Load: 2
Max: 0.036
Min: -0.038
Hydrostatic Load: 3
Max: 0.073
Min: -0.065
Vertical EQ (Z): 4
Max: 0.31
Min: -0.29
North-South EQ (X): 5
Max: 3.4
Min: -3.6
East-West EQ (Y): 6
Max: 3
Min: -6.4
Qx(MN/m)
THG(degree)

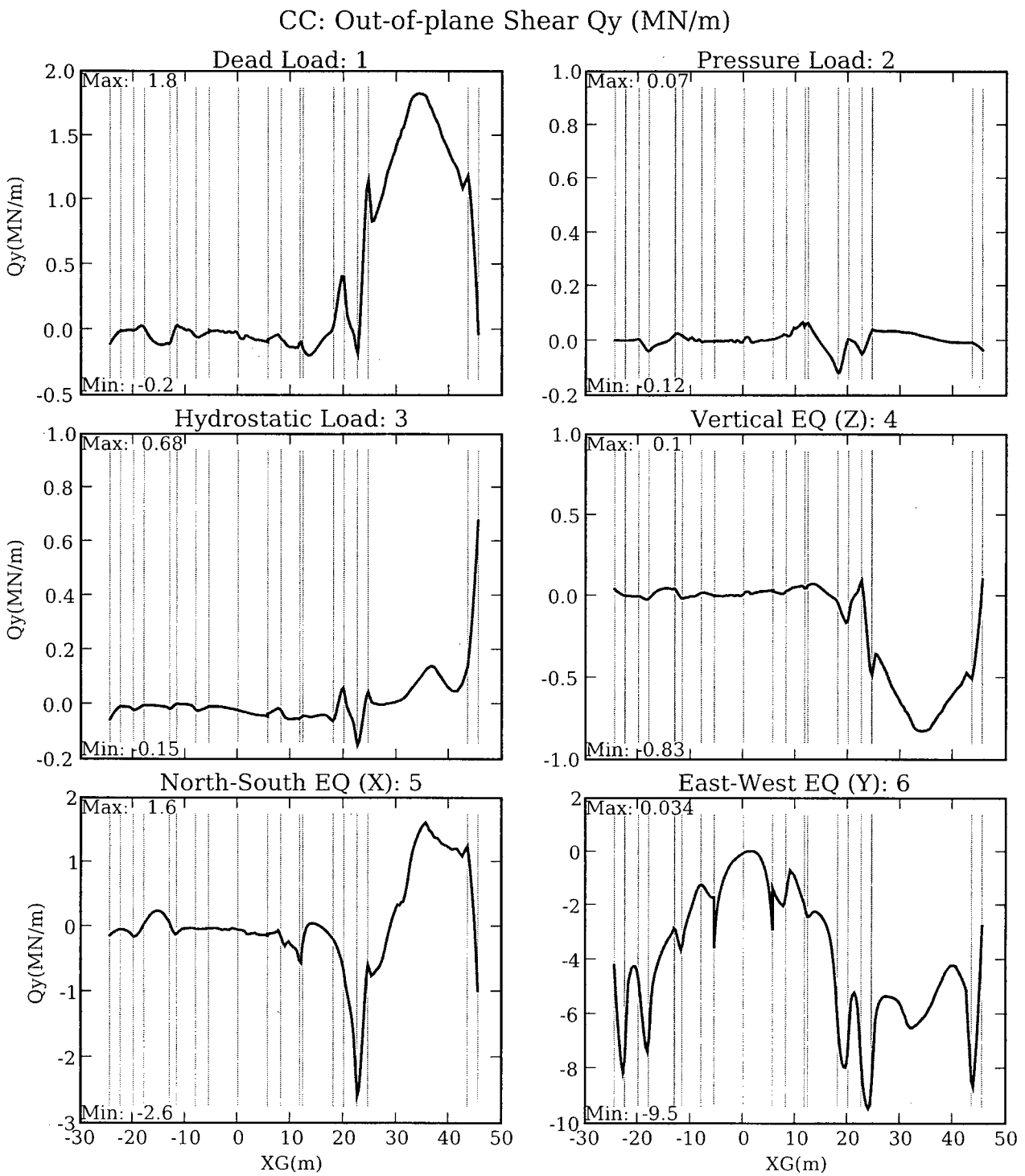

RPV: Out-of-plane Shear Qy (MN/m)
Dead Load: 1
Max: -0.67
Min: -1.4
Pressure Load: 2
Max: 1.5
Min: 1.4
Hydrostatic Load: 3
Max: 0.008
Min: -0.09
Vertical EQ (Z): 4
Max: 0.54
Min: 0.13
North-South EQ (X): 5
Max: 8.1
Min: 0.8
East-West EQ (Y): 6
Max: 3.8
Min: -3.6
Qy(MN/m)
THG(degree)

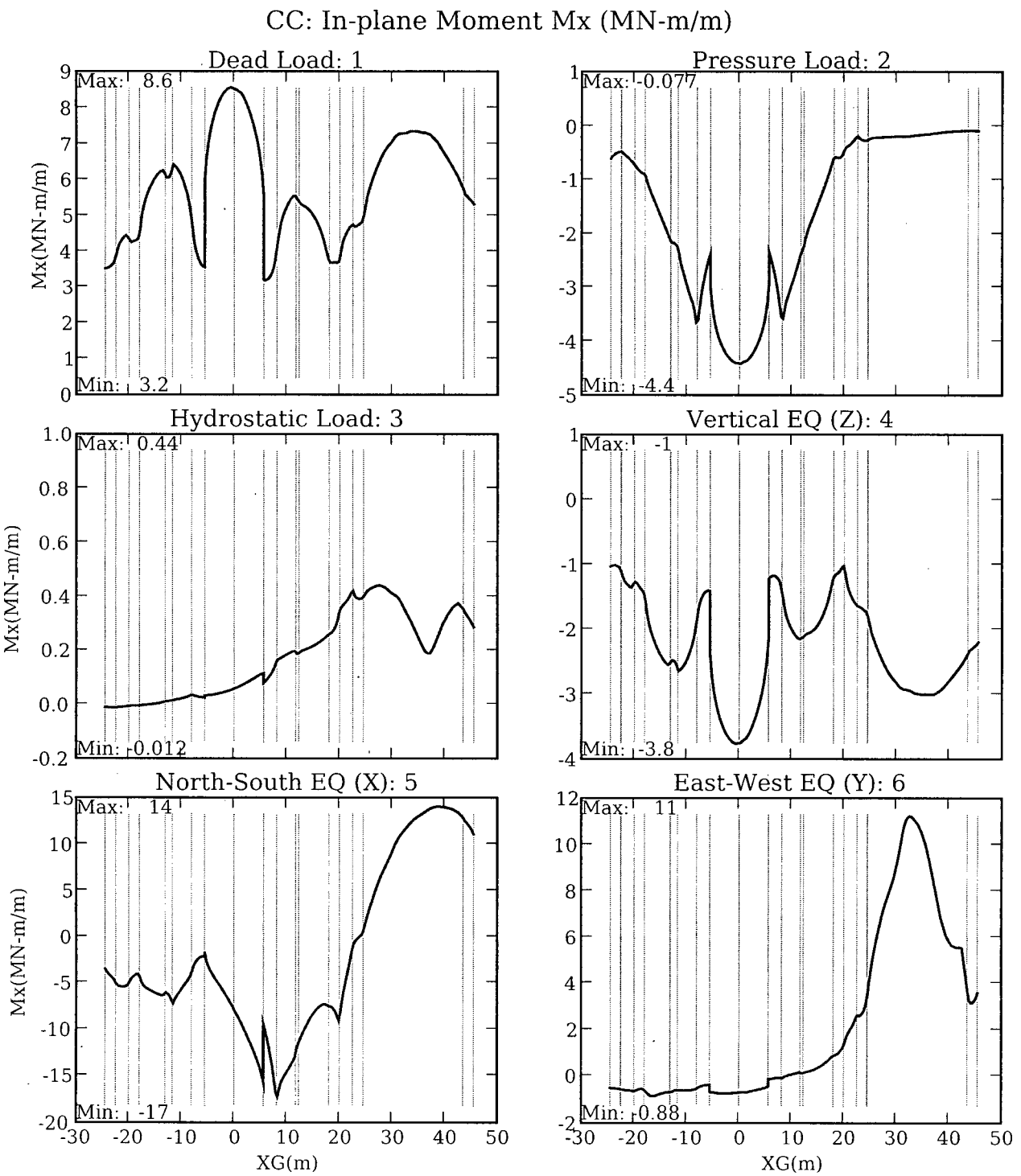

RPV: In-plane Moment Mx (MN-m/m)
Dead Load: 1
Max: 0.58
Min: -0.0065
Pressure Load: 2
Max: -2.3
Min: -2.4
Hydrostatic Load: 3
Max: 0.072
Min: -0.0041
Vertical EQ (Z): 4
Max: 0.21
Min: -0.11
North-South EQ (X): 5
Max: 1.3
Min: -8.4
East-West EQ (Y): 6
Max: 5.4
Min: -5.6
Mx(MN-m/m)
THG(degree)

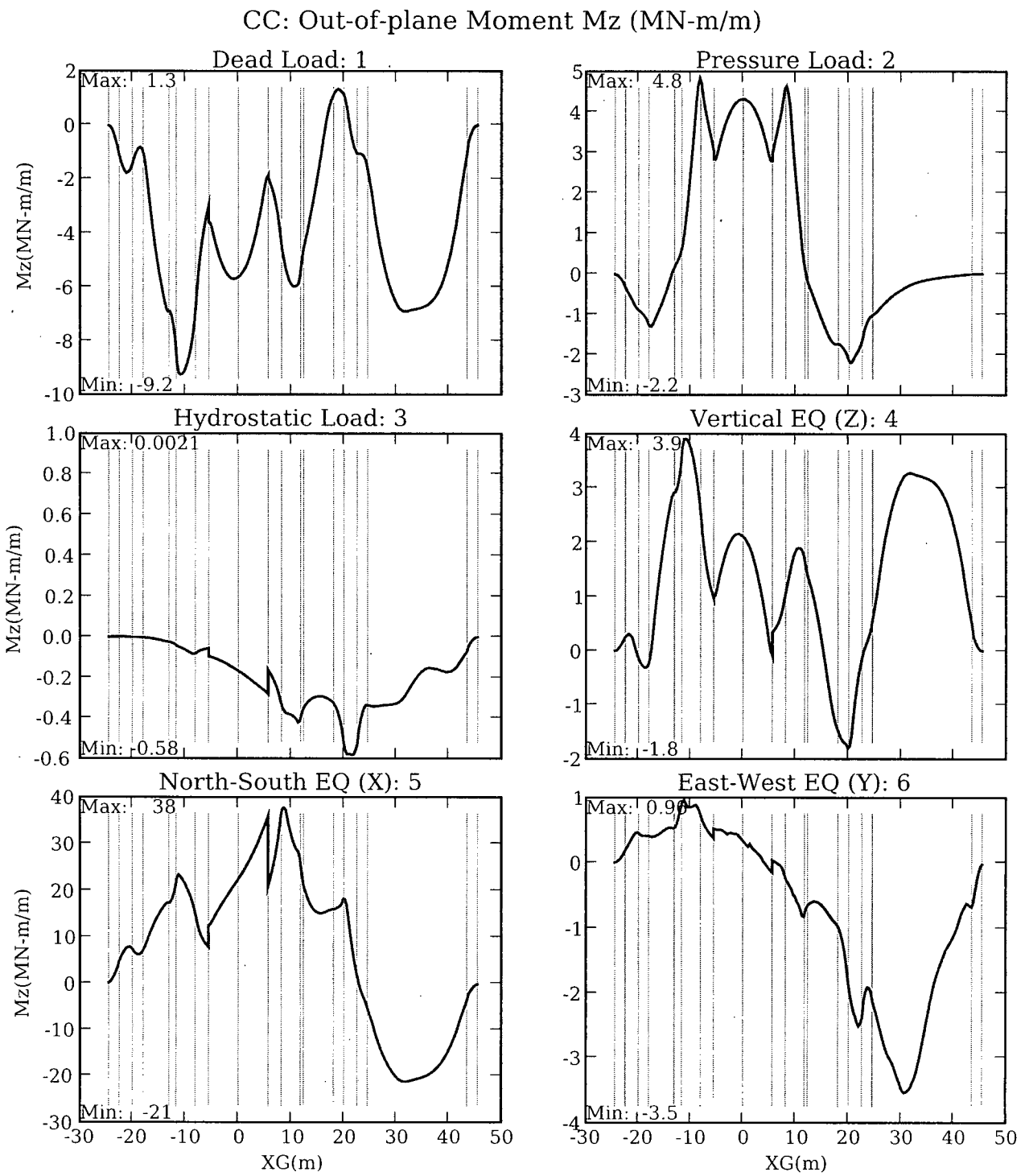

RPV: Out-of-plane Moment Mz (MN-m/m)
Dead Load: 1
Max: 0.4
Min: 0.061
Pressure Load: 2
Max: -0.7
Min: -0.74
Hydrostatic Load: 3
Max: 0.039
Min: -0.0071
Vertical EQ (Z): 4
Max: 0.057
Min: -0.14
North-South EQ (X): 5
Max: -0.0064
Min: -3.5
East-West EQ (Y): 6
Max: 1.7
Min: -1.8
Mz(MN-m/m)
THG(degree)

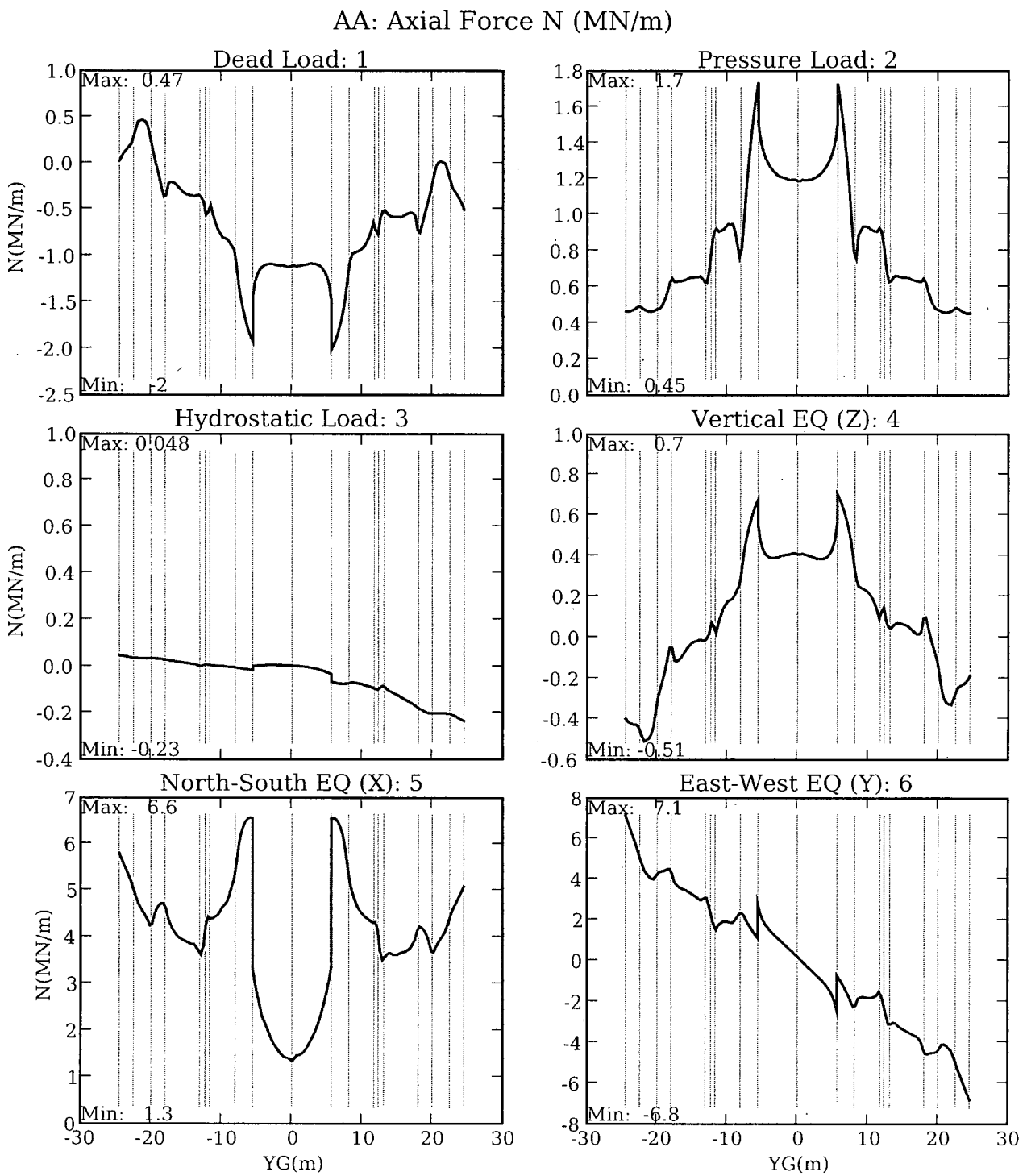

CC: Axial Force N (MN/m)
Dead Load: 1
Max: -0.56
Min: -2.7
Pressure Load: 2
Max: 1.8
Min: -0.0032
Hydrostatic Load: 3
Max: 0.055
Min: -0.22
Vertical EQ (Z): 4
Max: 1.1
Min: 0.11
North-South EQ (X): 5
Max: 8.6
Min: -16
East-West EQ (Y): 6
Max: 4.1
Min: -1.2
N(MN/m)
XG(m)

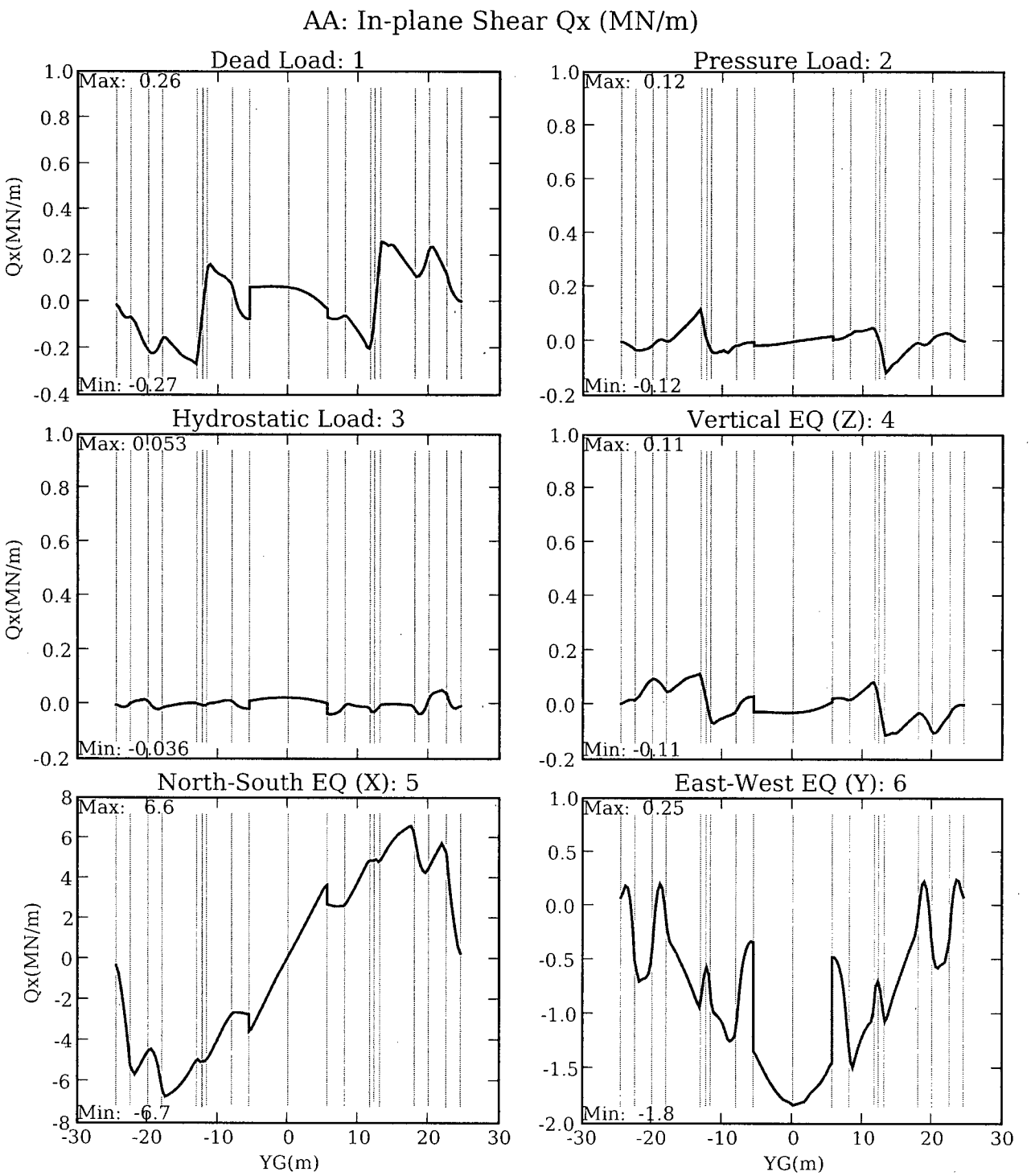

CC: In-plane Shear Qx (MN/m)
Dead Load: 1
Max: 0.78
Min: -0.73
Pressure Load: 2
Max: 0.027
Min: -0.048
Hydrostatic Load: 3
Max: 0.13
Min: -0.12
Vertical EQ (Z): 4
Max: 0.32
Min: -0.36
North-South EQ (X): 5
Max: 2.2
Min: -2
East-West EQ (Y): 6
Max: 8.6
Min: -8.3
Qx(MN/m)
XG(m)

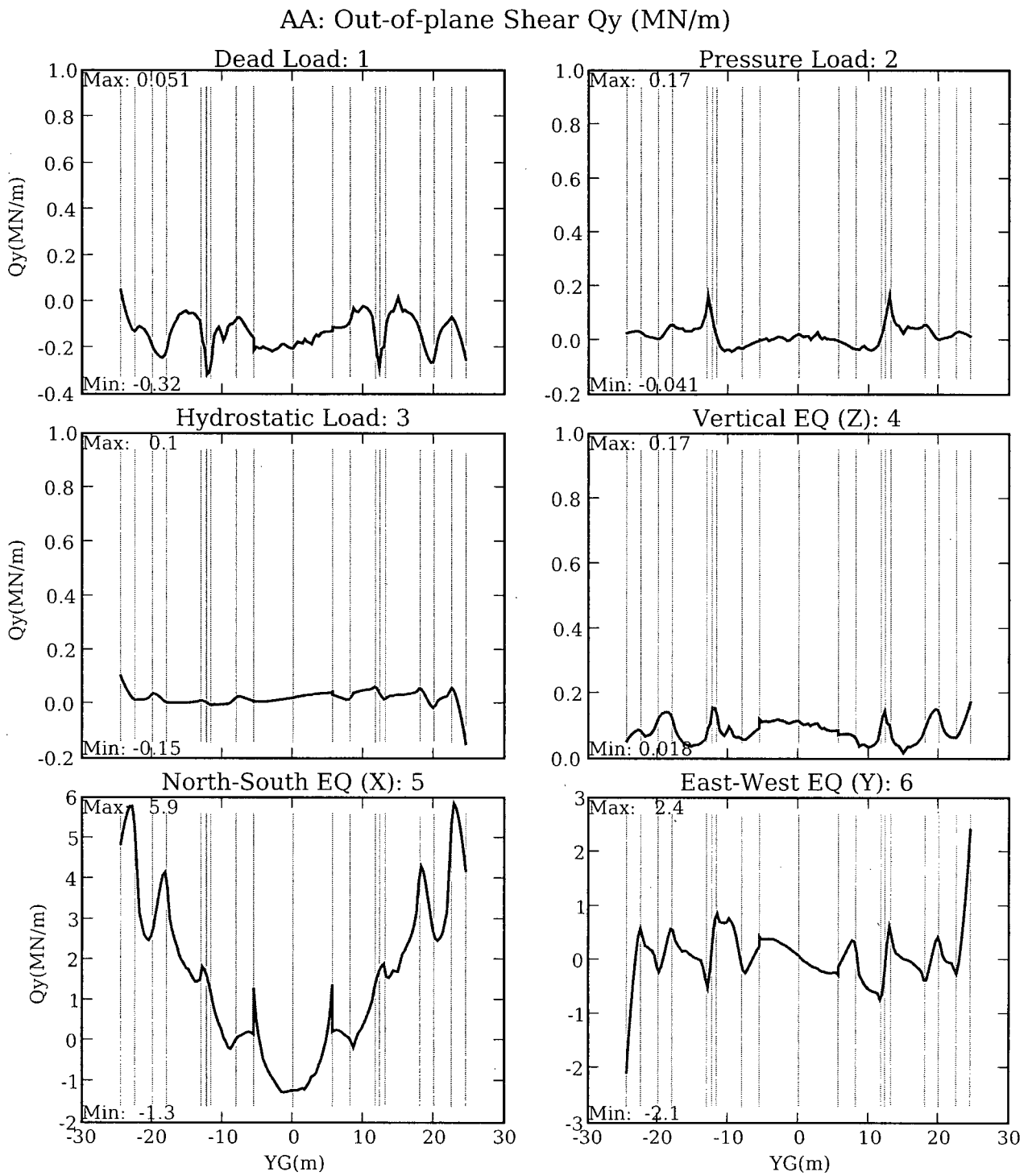

CC: Out-of-plane Shear Qy (MN/m)
Dead Load: 1
Max: 1.8
Min: -0.2
Pressure Load: 2
Max: 0.07
Min: -0.12
Hydrostatic Load: 3
Max: 0.68
Min: -0.15
Vertical EQ (Z): 4
Max: 0.1
Min: -0.83
North-South EQ (X): 5
Max: 1.6
Min: -2.6
East-West EQ (Y): 6
Max: 0.034
Min: -9.5
Qy(MN/m)
XG(m)

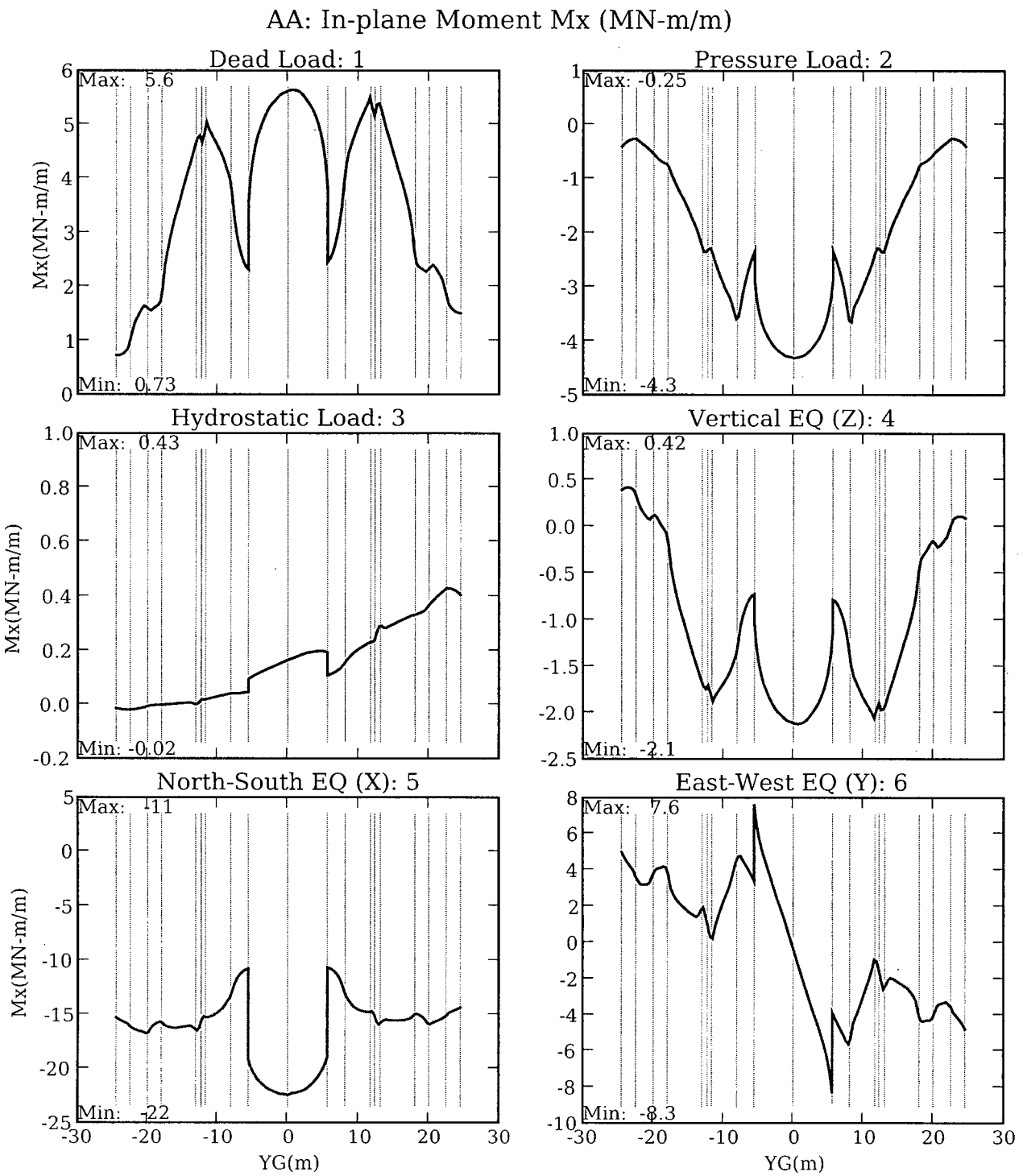

CC: In-plane Moment Mx (MN-m/m)
Dead Load: 1
Max: 8.6
Min: 3.2
Pressure Load: 2
Max: -0.077
Min: -4.4
Hydrostatic Load: 3
Max: 0.44
Min: -0.012
Vertical EQ (Z): 4
Max: -1
Min: -3.8
North-South EQ (X): 5
Max: 14
Min: -17
East-West EQ (Y): 6
Max: 11
Min: -0.88
Mx(MN-m/m)
XG(m)

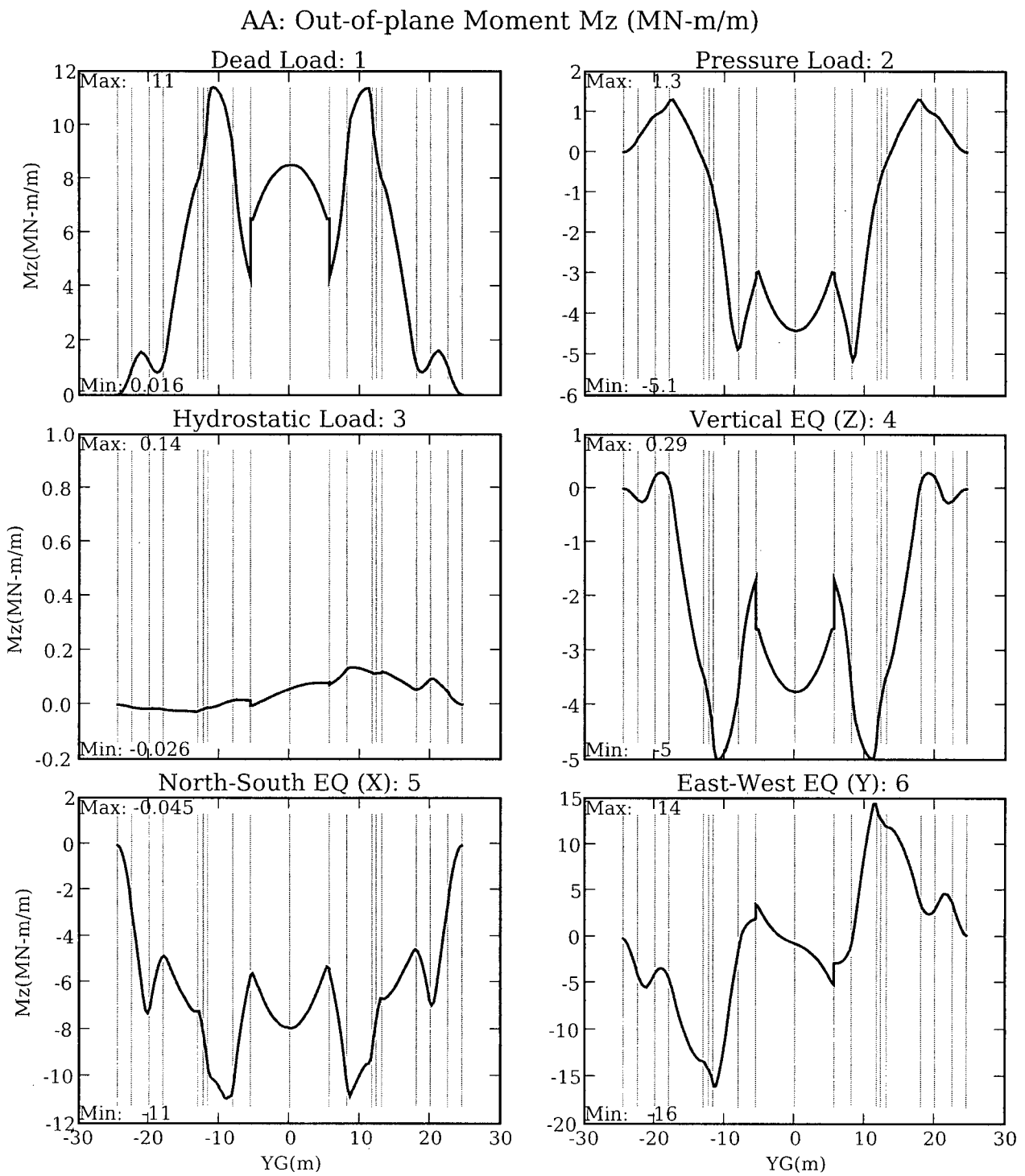

CC: Out-of-plane Moment Mz (MN-m/m)
Dead Load: 1
Max: 1.3
Min: -9.2
Pressure Load: 2
Max: 4.8
Min: -2.2
Hydrostatic Load: 3
Max: 0.0021
Min: -0.58
Vertical EQ (Z): 4
Max: 3.9
Min: -1.8
North-South EQ (X): 5
Max: 38
Min: -21
East-West EQ (Y): 6
Max: 0.96
Min: -3.5
Mz(MN-m/m)
XG(m)

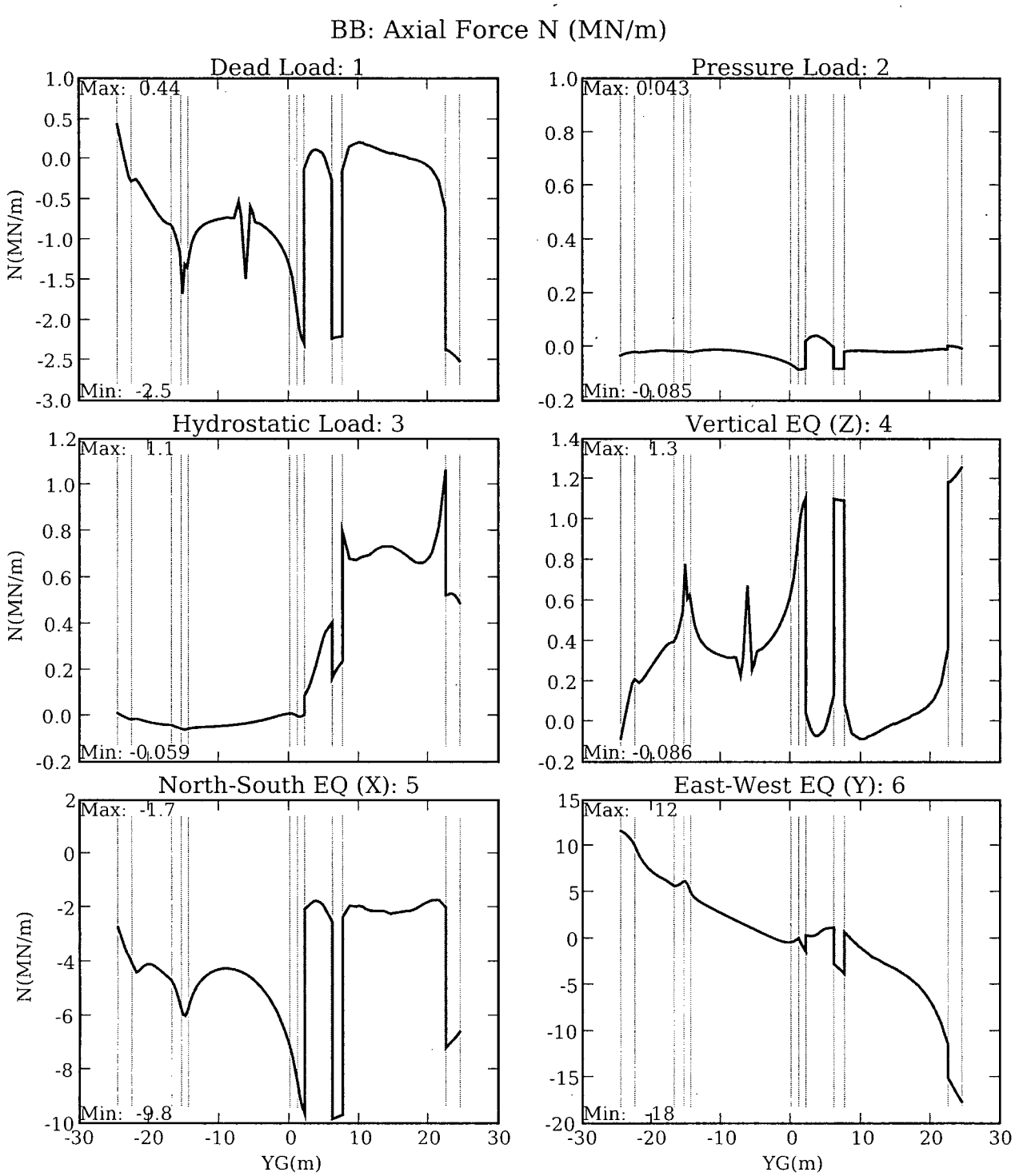

AA: Axial Force N (MN/m)
Dead Load: 1
Max: 0.47
Min: -2
Pressure Load: 2
Max: 1.7
Min: 0.45
Hydrostatic Load: 3
Max: 0.048
Min: -0.23
Vertical EQ (Z): 4
Max: 0.7
Min: -0.51
North-South EQ (X): 5
Max: 6.6
Min: 1.3
East-West EQ (Y): 6
Max: 7.1
Min: -6.8
N(MN/m)
YG(m)

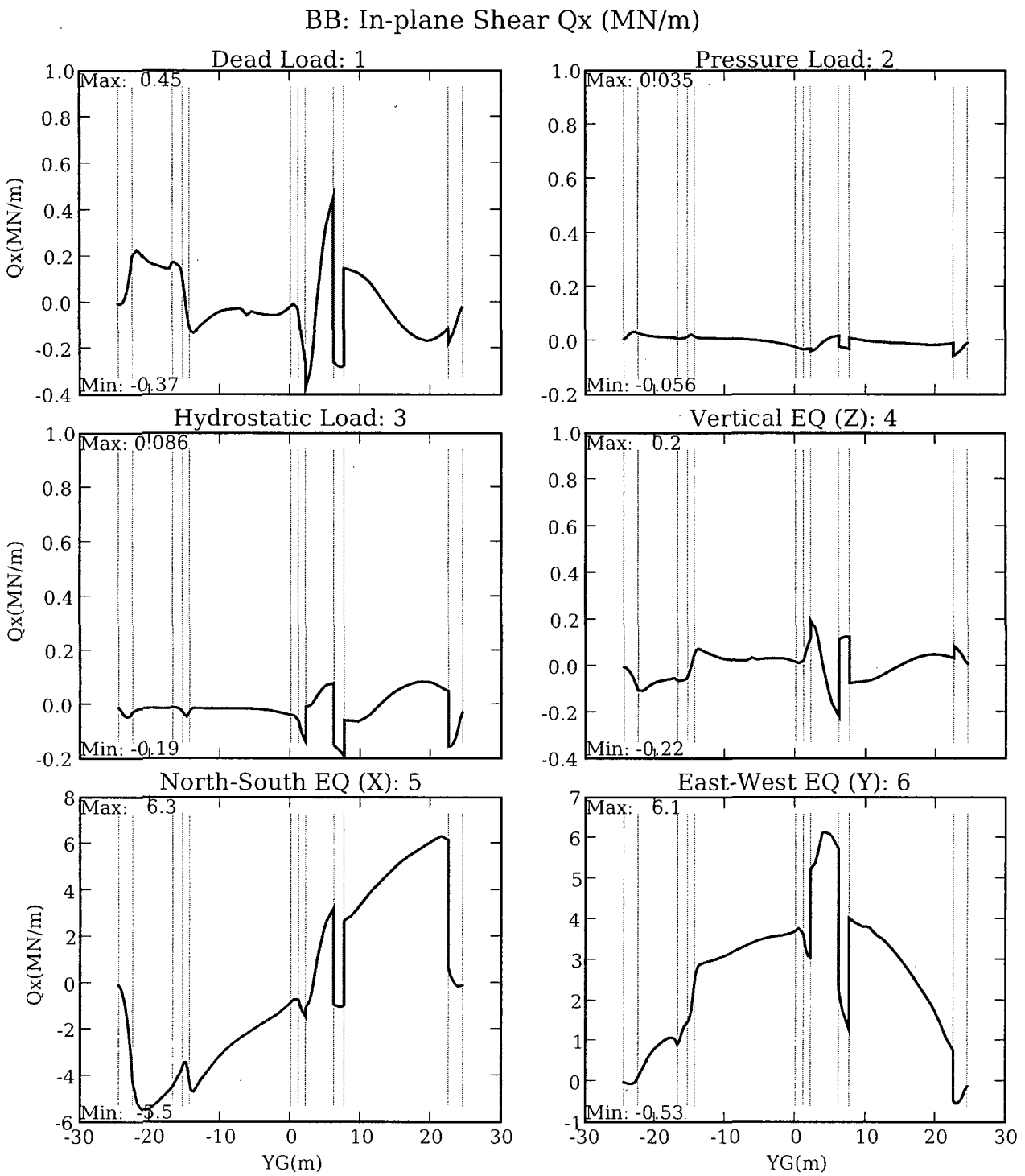

AA: In-plane Shear Qx (MN/m)
Dead Load: 1
Max: 0.26
Min: -0.27
Pressure Load: 2
Max: 0.12
Min: -0.12
Hydrostatic Load: 3
Max: 0.053
Min: -0.036
Vertical EQ (Z): 4
Max: 0.11
Min: -0.11
North-South EQ (X): 5
Max: 6.6
Min: -6.7
East-West EQ (Y): 6
Max: 0.25
Min: -1.8
Qx(MN/m)
YG(m)

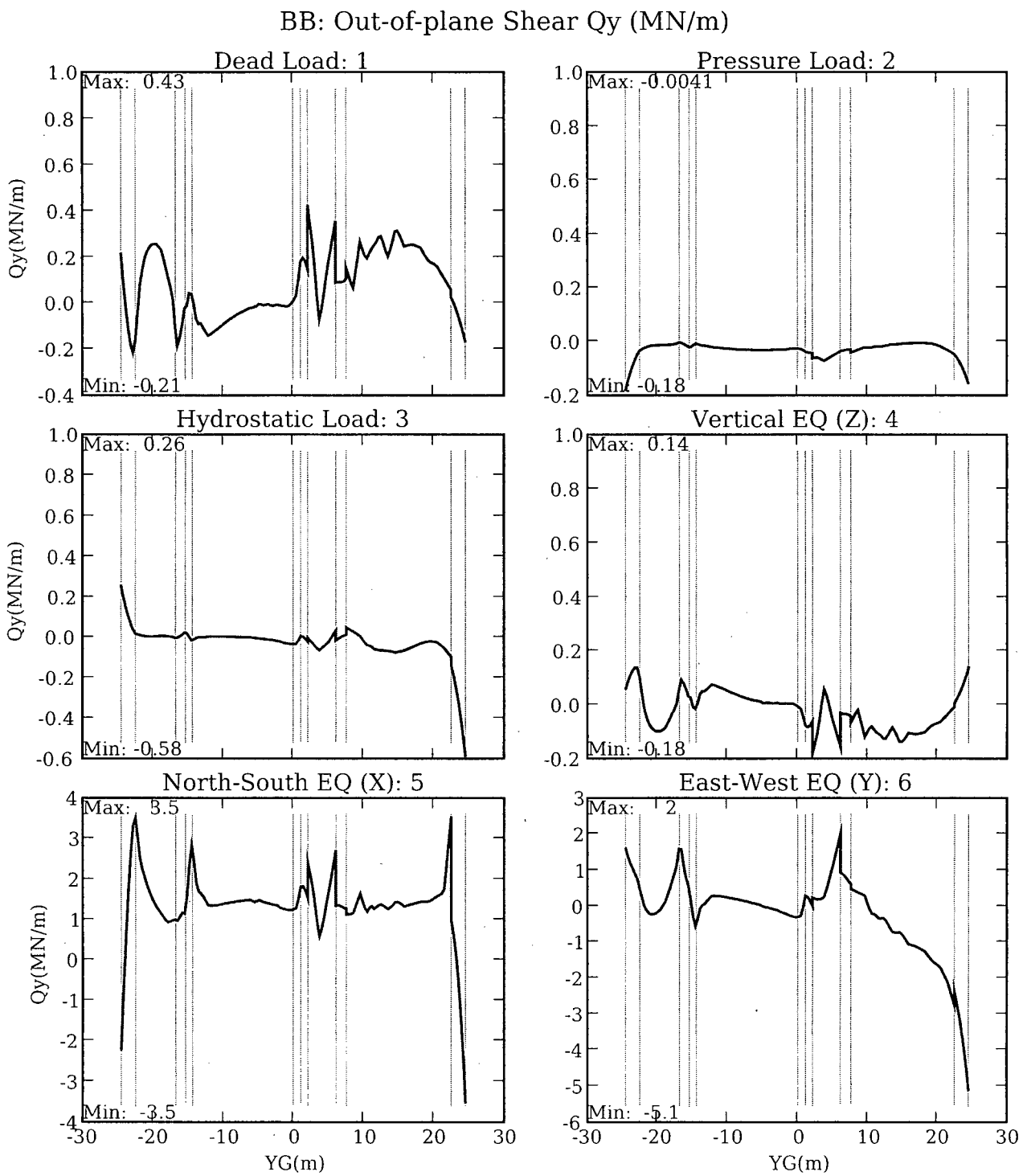

AA: Out-of-plane Shear Qy (MN/m)
Dead Load: 1
Max: 0.051
Min: -0.32
Pressure Load: 2
Max: 0.17
Min: -0.041
Hydrostatic Load: 3
Max: 0.1
Min: -0.15
Vertical EQ (Z): 4
Max: 0.17
Min: 0.018
North-South EQ (X): 5
Max: 5.9
Min: -1.3
East-West EQ (Y): 6
Max: 2.4
Min: -2.1
Qy(MN/m)
YG(m)

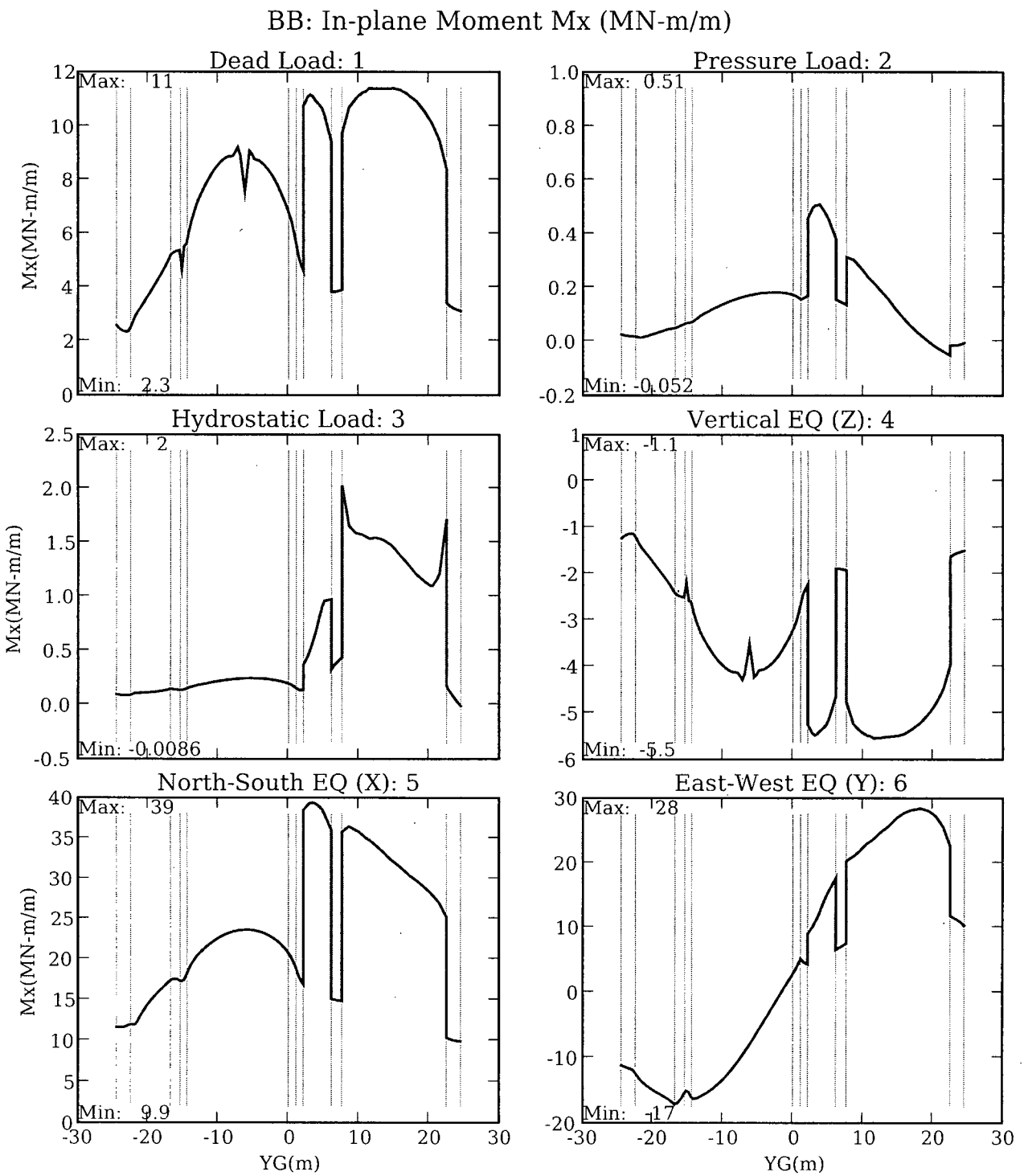

AA: In-plane Moment Mx (MN-m/m)
Dead Load: 1
Max: 5.6
Min: 0.73
Pressure Load: 2
Max: -0.25
Min: -4.3
Hydrostatic Load: 3
Max: 0.43
Min: -0.02
Vertical EQ (Z): 4
Max: 0.42
Min: -2.1
North-South EQ (X): 5
Max: 11
Min: -22
East-West EQ (Y): 6
Max: 7.6
Min: -8.3
Mx(MN-m/m)
YG(m)

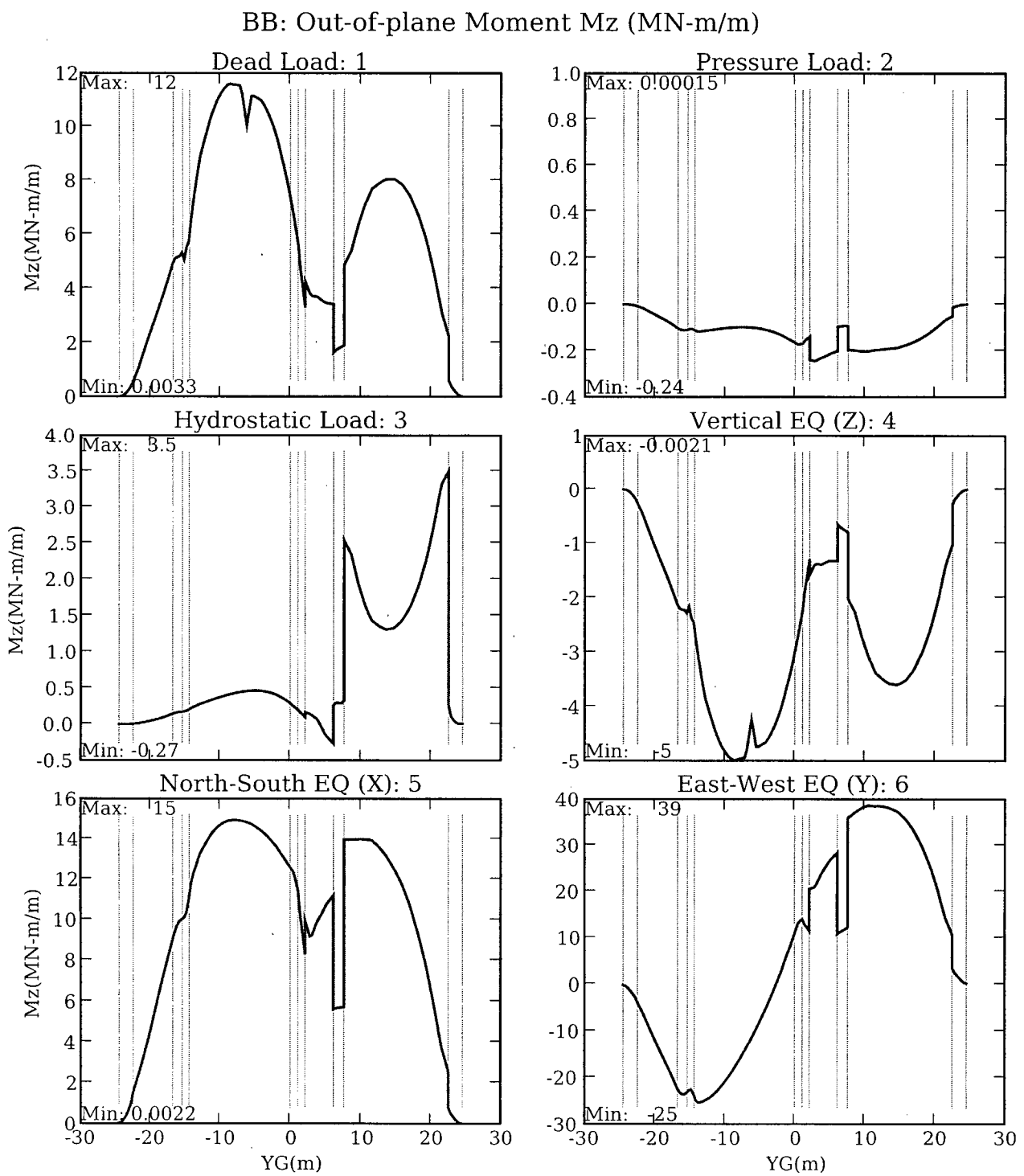

AA: Out-of-plane Moment Mz (MN-m/m)
Dead Load: 1
Max: 11
Min: 0.016
Pressure Load: 2
Max: 1.3
Min: -5.1
Hydrostatic Load: 3
Max: 0.14
Min: -0.026
Vertical EQ (Z): 4
Max: 0.29
Min: -5
North-South EQ (X): 5
Max: -0.045
Min: -11
East-West EQ (Y): 6
Max: 14
Min: -16
Mz(MN-m/m)
YG(m)

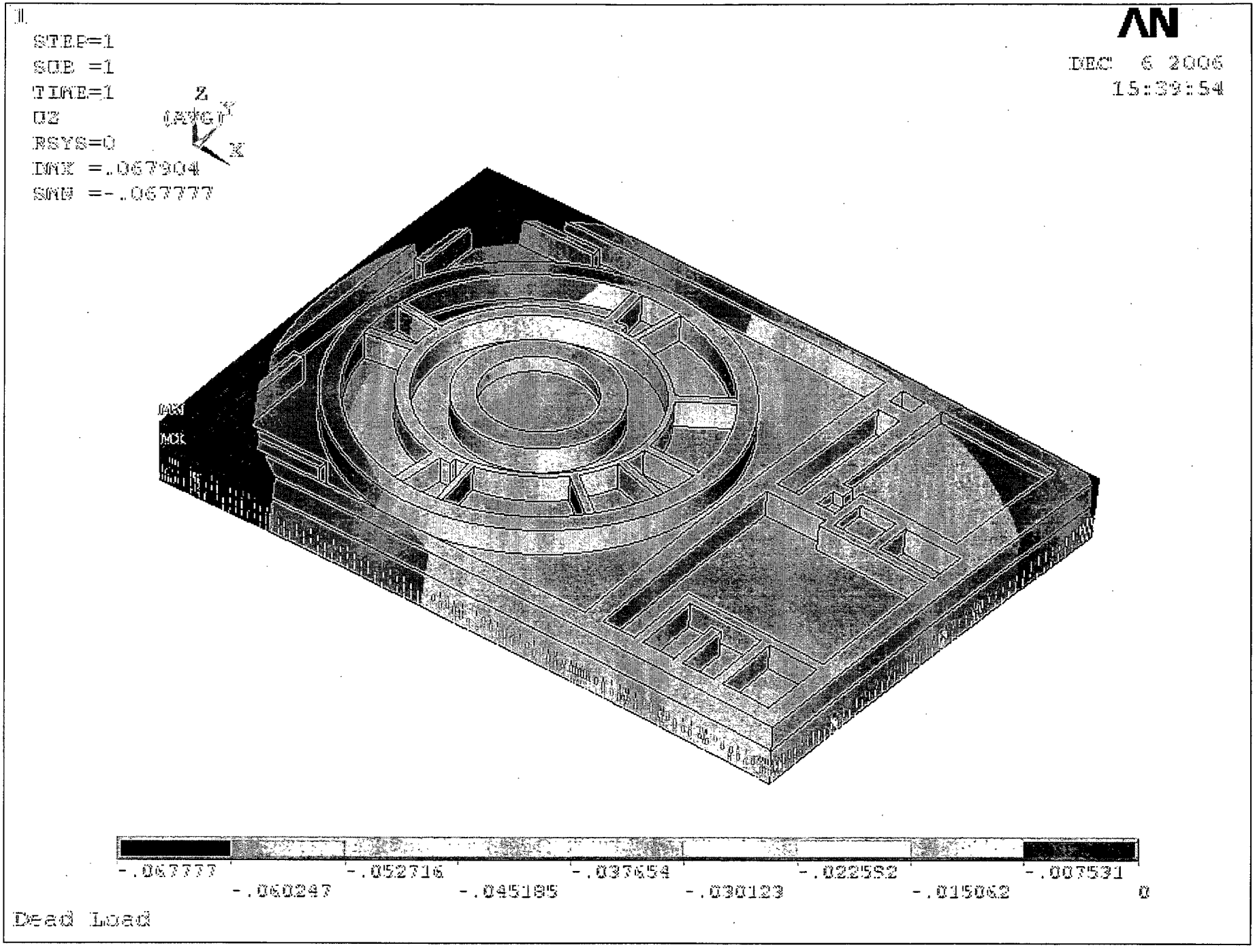

BB: Axial Force N (MN/m)
Dead Load: 1
Max: 0.44
Min: -2.5
Pressure Load: 2
Max: 0.043
Min: -0.085
Hydrostatic Load: 3
Max: 1.1
Min: -0.059
Vertical EQ (Z): 4
Max: 1.3
Min: -0.086
North-South EQ (X): 5
Max: -1.7
Min: -9.8
East-West EQ (Y): 6
Max: 12
Min: -18
N(MN/m)
YG(m)


BB: In-plane Shear Qx (MN/m)
Dead Load: 1
Max: 0.45
Min: -0.37
Pressure Load: 2
Max: 0.035
Min: -0.056
Hydrostatic Load: 3
Max: 0.086
Min: -0.19
Vertical EQ (Z): 4
Max: 0.2
Min: -0.22
North-South EQ (X): 5
Max: 6.3
Min: -5.5
East-West EQ (Y): 6
Max: 6.1
Min: -0.53
Qx(MN/m)
YG(m)


BB: Out-of-plane Shear Qy (MN/m)
Dead Load: 1
Max: 0.43
Min: -0.21
Pressure Load: 2
Max: -0.0041
Min: -0.18
Hydrostatic Load: 3
Max: 0.26
Min: -0.58
Vertical EQ (Z): 4
Max: 0.14
Min: -0.18
North-South EQ (X): 5
Max: 3.5
Min: -3.5
East-West EQ (Y): 6
Max: 2
Min: -5.1
Qy(MN/m)
YG(m)


BB: In-plane Moment Mx (MN-m/m)
Dead Load: 1
Max: 11
Min: 2.3
Pressure Load: 2
Max: 0.51
Min: -0.052
Hydrostatic Load: 3
Max: 2
Min: -0.0086
Vertical EQ (Z): 4
Max: -1.1
Min: -5.5
North-South EQ (X): 5
Max: 39
Min: 9.9
East-West EQ (Y): 6
Max: 28
Min: -17
Mx(MN-m/m)
YG(m)


BB: Out-of-plane Moment Mz (MN-m/m)
Dead Load: 1
Max: 12
Min: 0.0033
Pressure Load: 2
Max: 0.00015
Min: -0.24
Hydrostatic Load: 3
Max: 3.5
Min: -0.27
Vertical EQ (Z): 4
Max: -0.0021
Min: -5
North-South EQ (X): 5
Max: 15
Min: 0.0022
East-West EQ (Y): 6
Max: 39
Min: -25
Mz(MN-m/m)
YG(m)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TIME=1
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RSYS=0
DMX =.067904
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Z
Y
X
AN
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MN
MX
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-.052716
-.045185
-.037654
-.030123
-.022592
-.015062
-.007531
0
Dead Load

1

STEP=2
SUB =1
TIME=2
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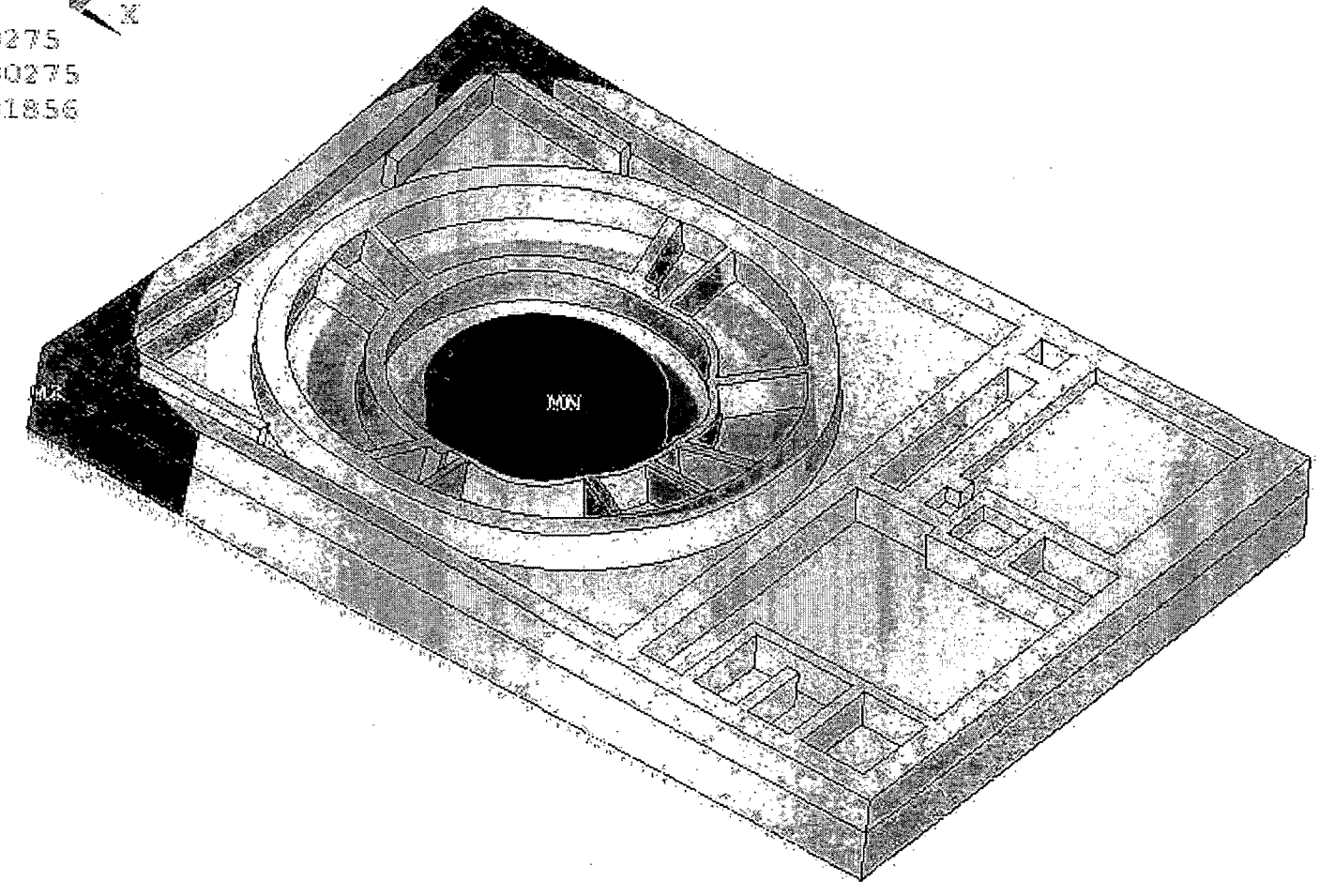
RSYS=0
DMX =.00275
SMN =-.00275
SMX =.001856

AN

DEC 6 2006
15:41:25



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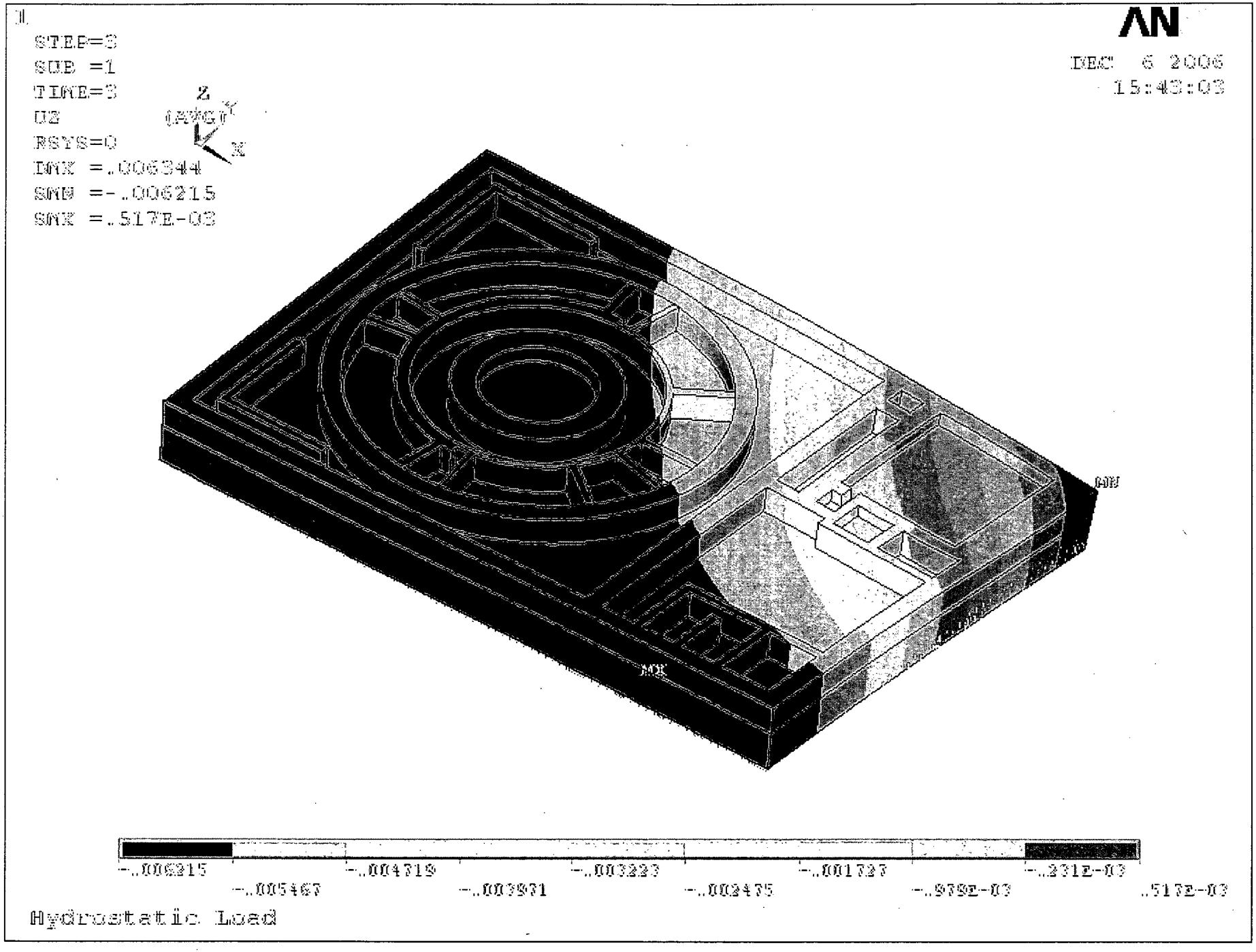
Pressure Load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Y
X
AN
DEC 6 2006
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MN
MX
-.006215
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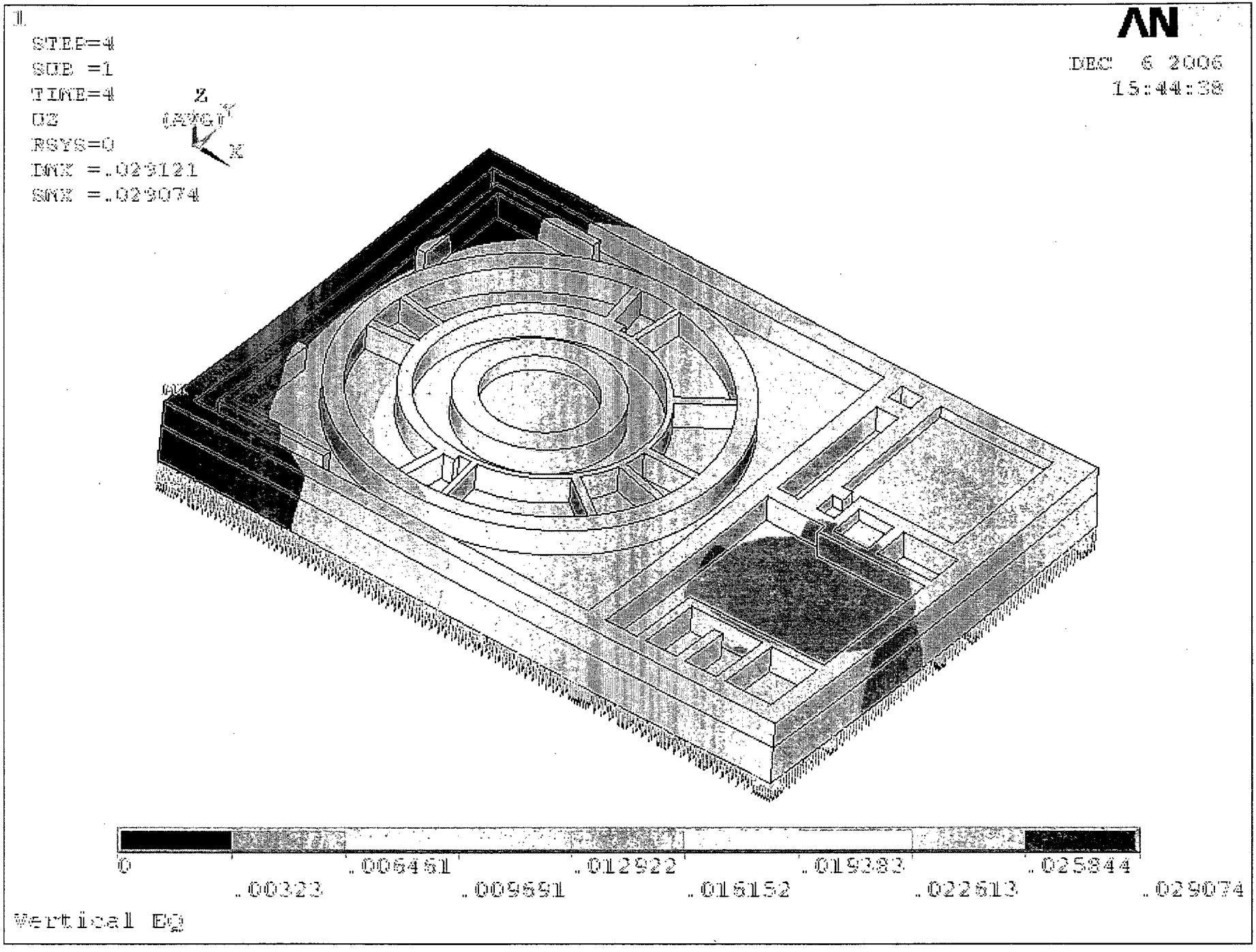
Hydrostatic Load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Y
X
AN
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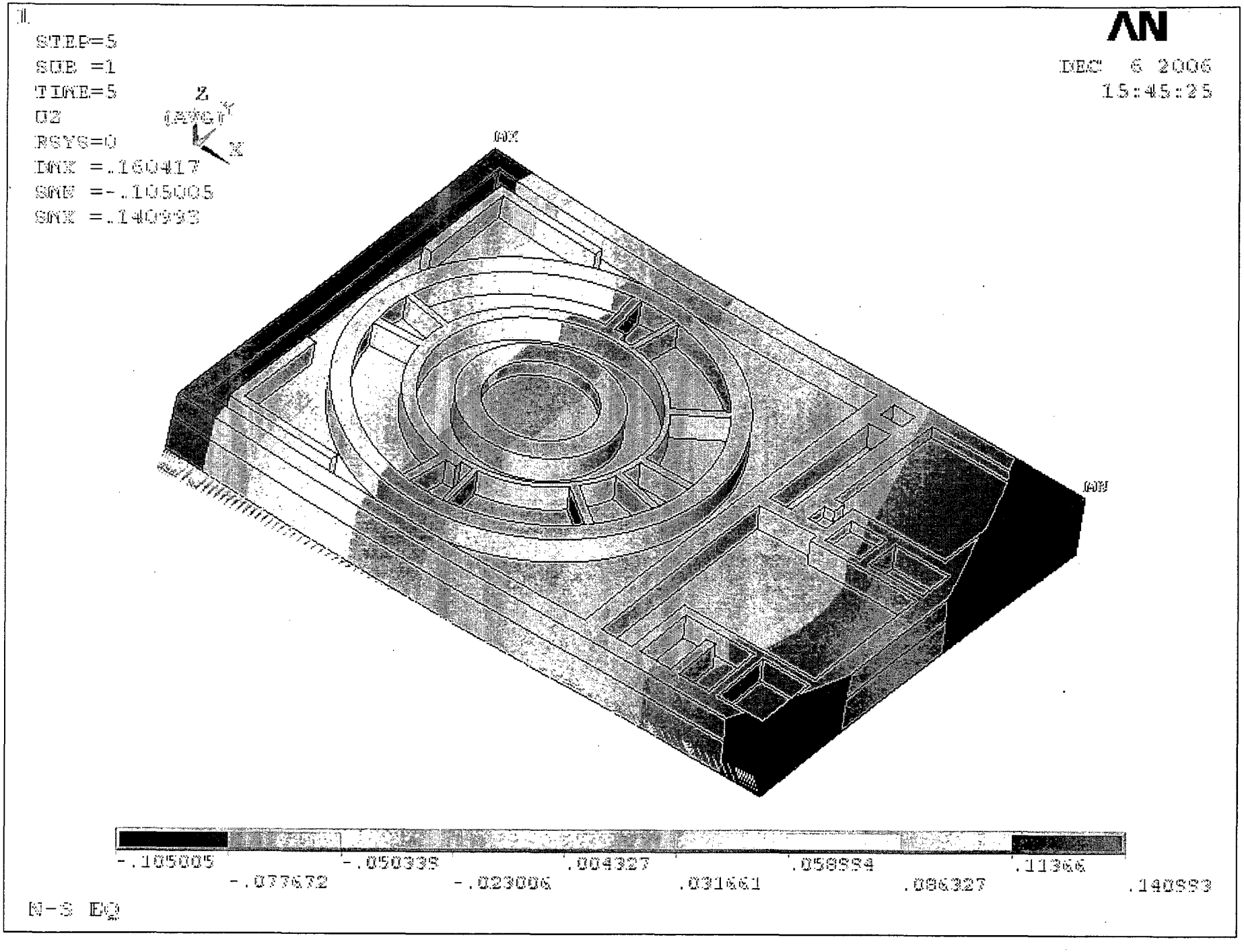
.019383
.022613
.025844
.029074
Vertical EQ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Y
X
AN
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MX
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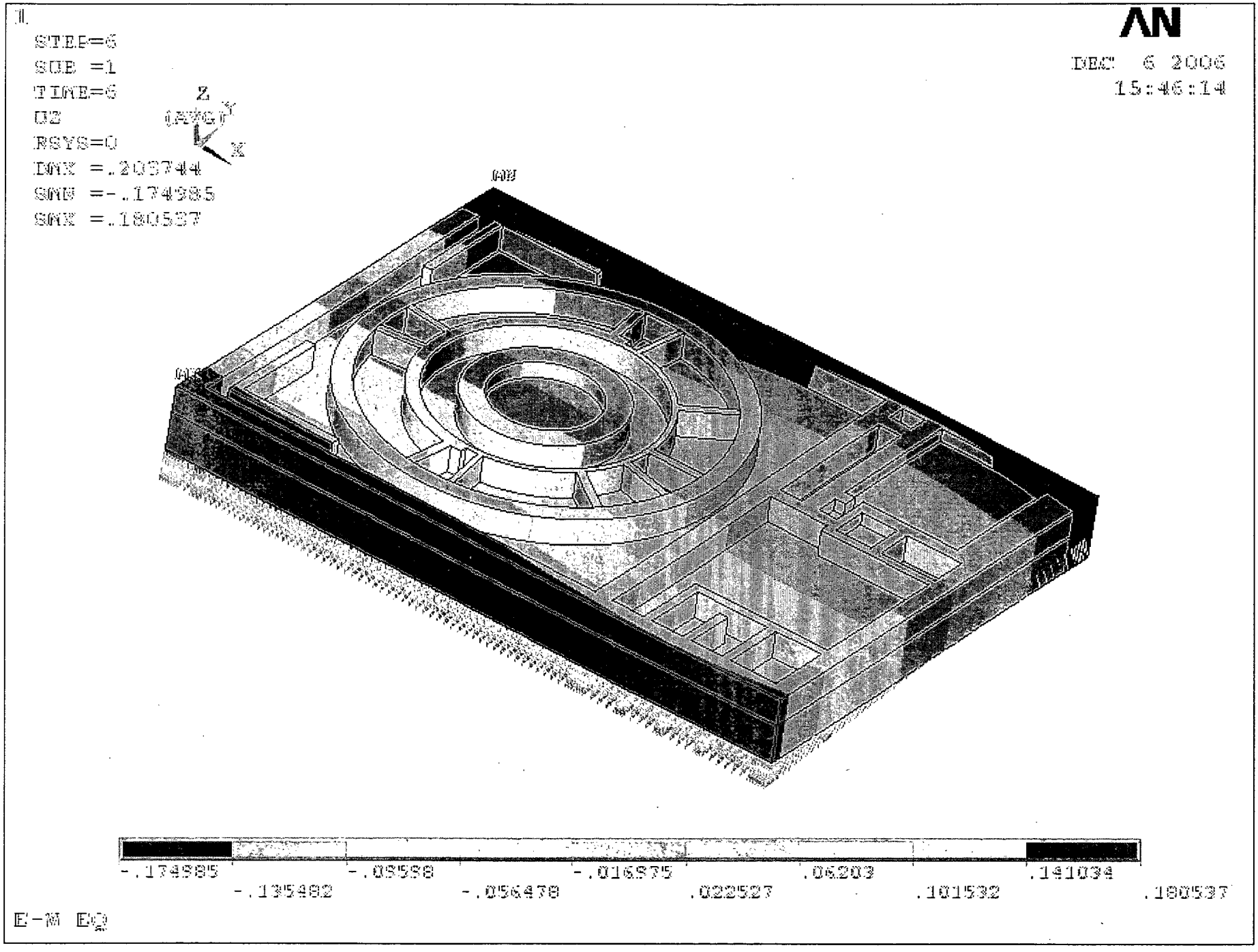
.140993
N-S EQ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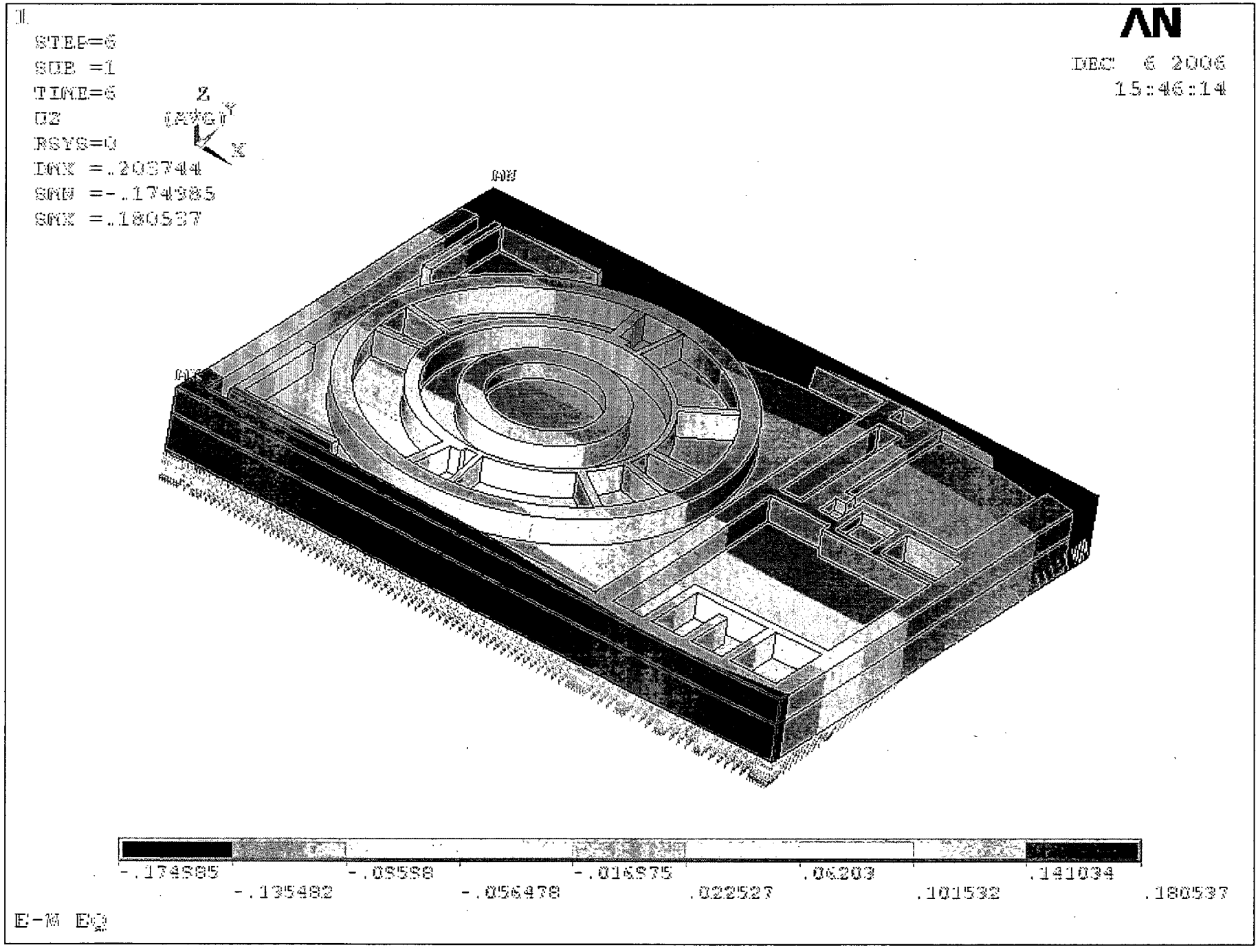
E-M EQ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X
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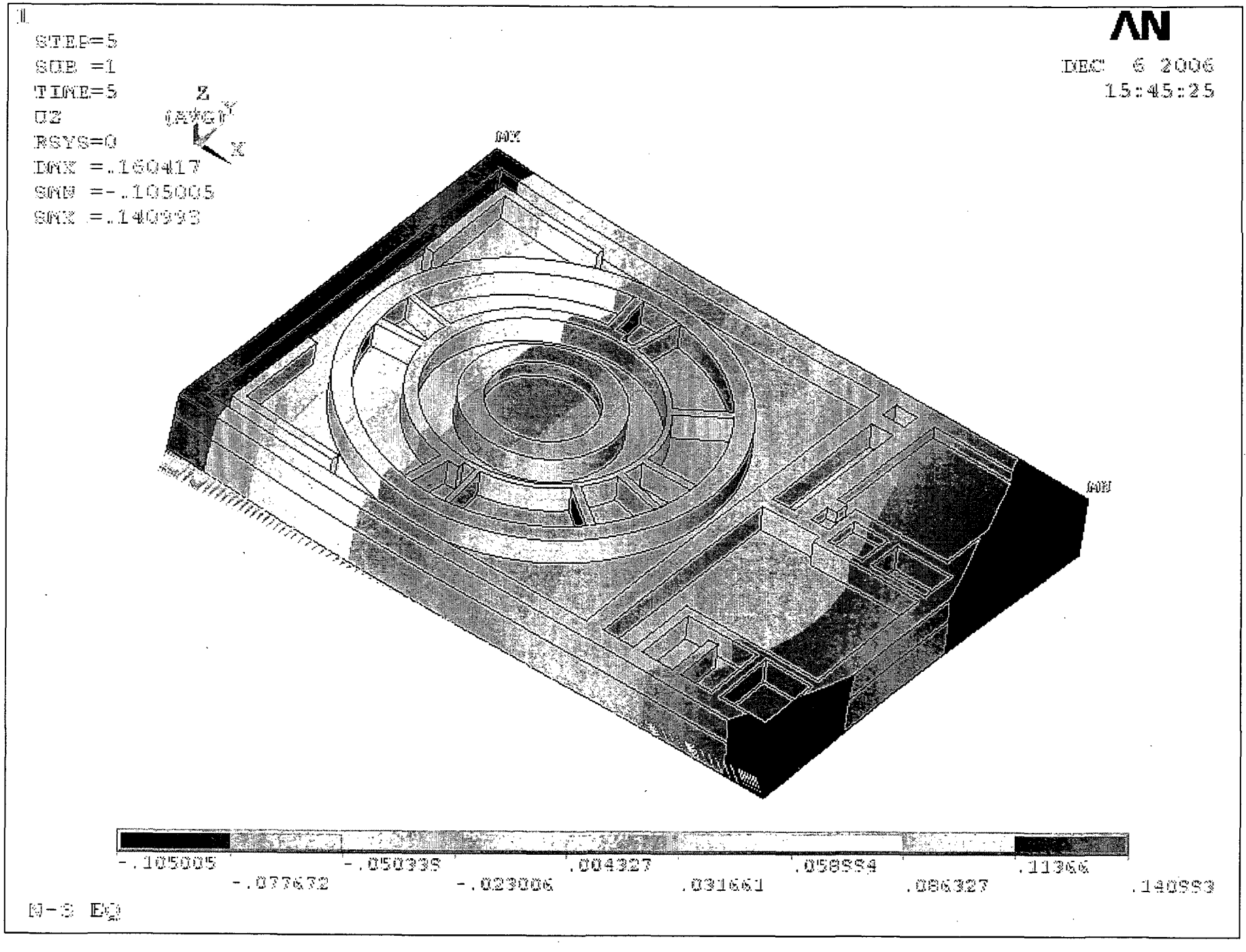
E-M EQ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SMX =.140993
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Y
X
AN
DEC 6 2006
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MX
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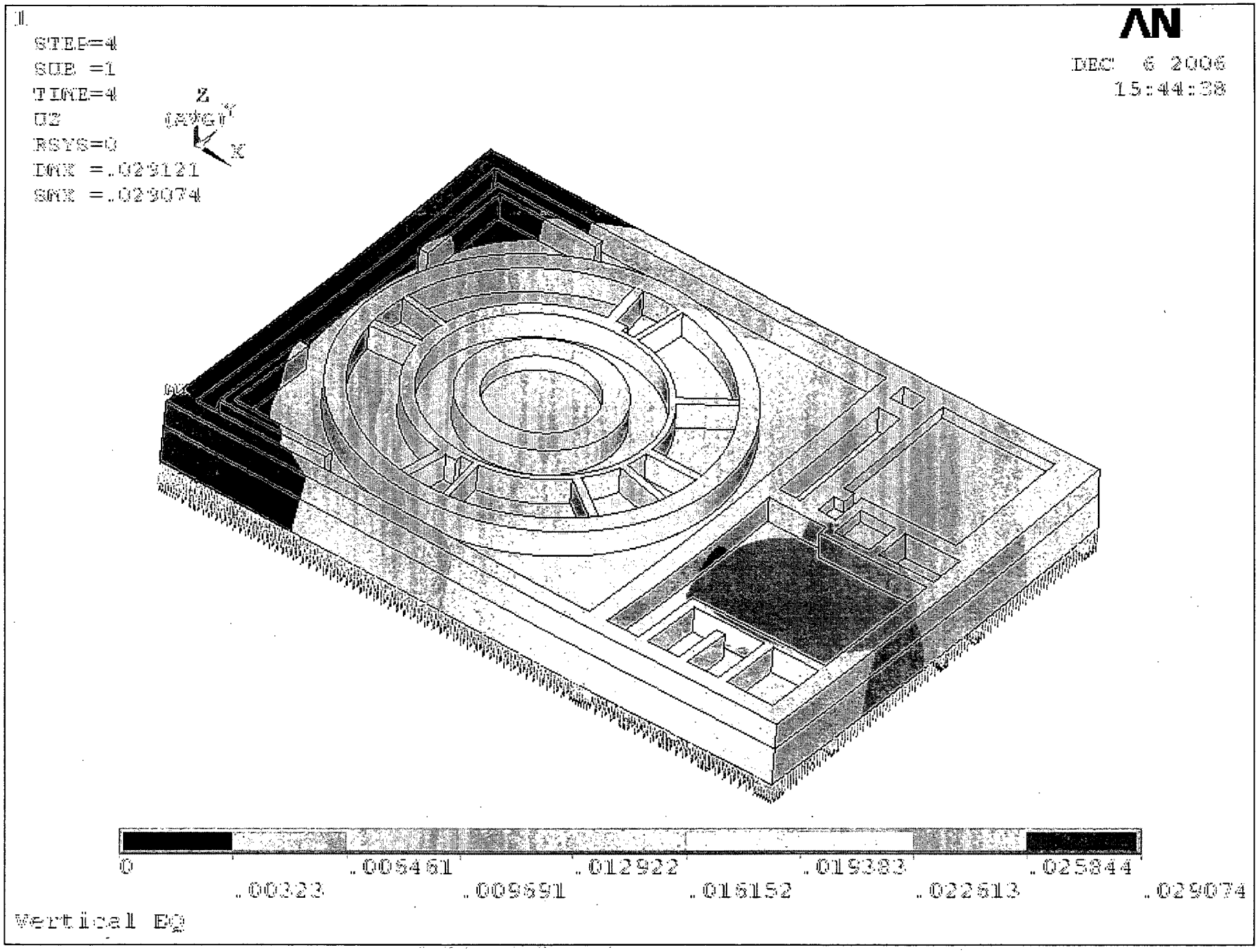
N-S EQ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Y
X
AN
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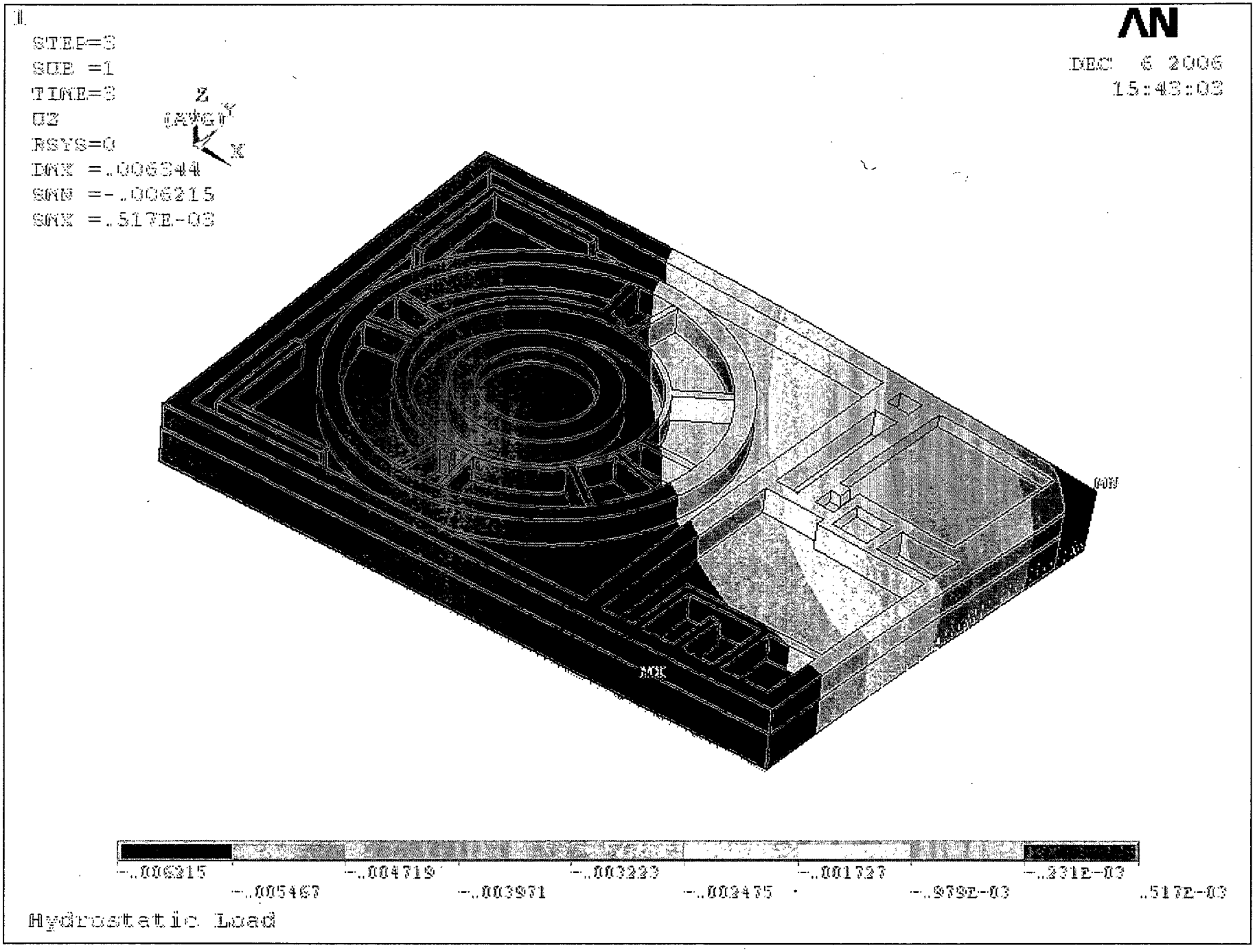
Vertical EQ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SMX =.517E-03
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MX
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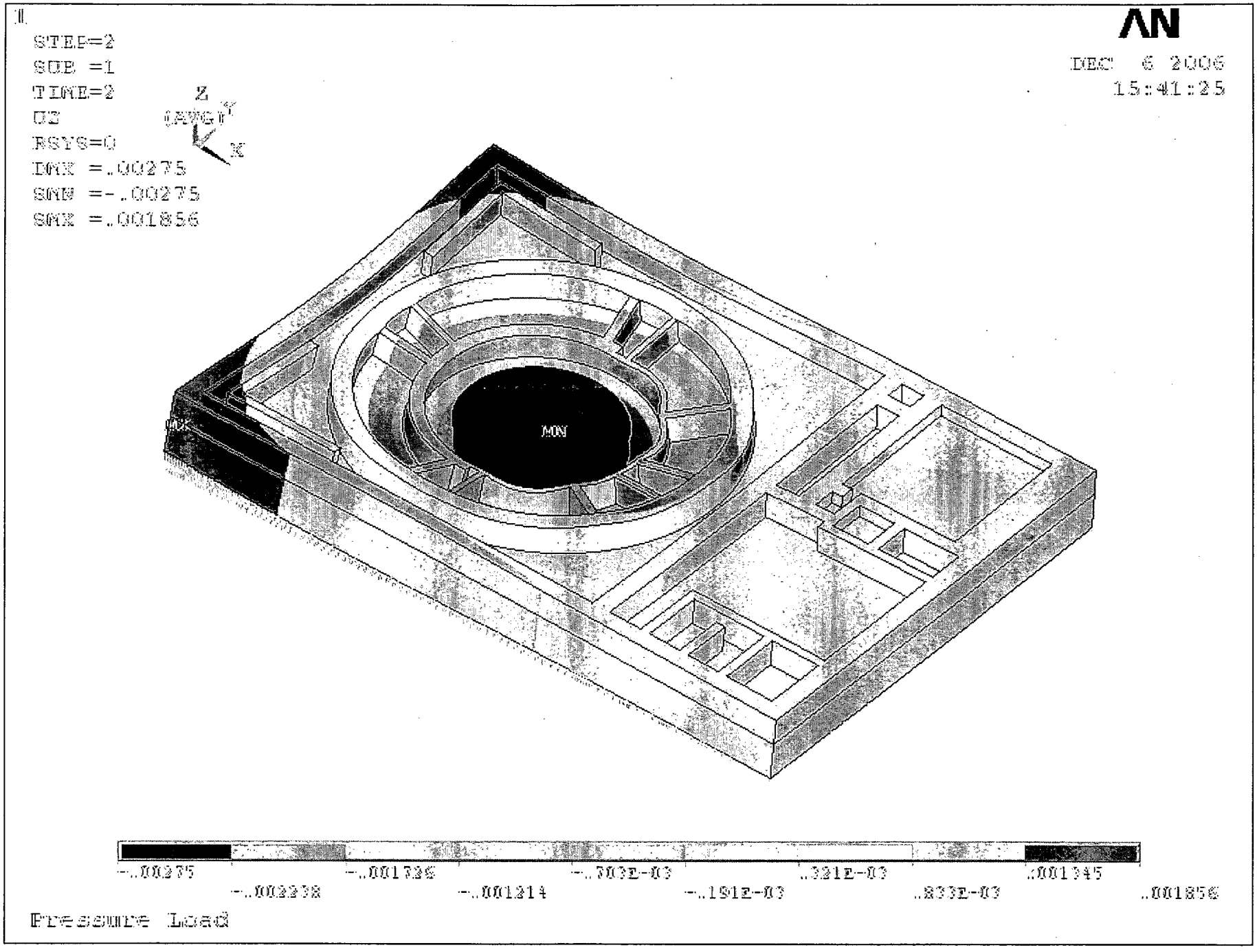
-.231E-03
.517E-03
Hydrostatic Load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SMX =.001856
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Y
X
AN
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MN
MX
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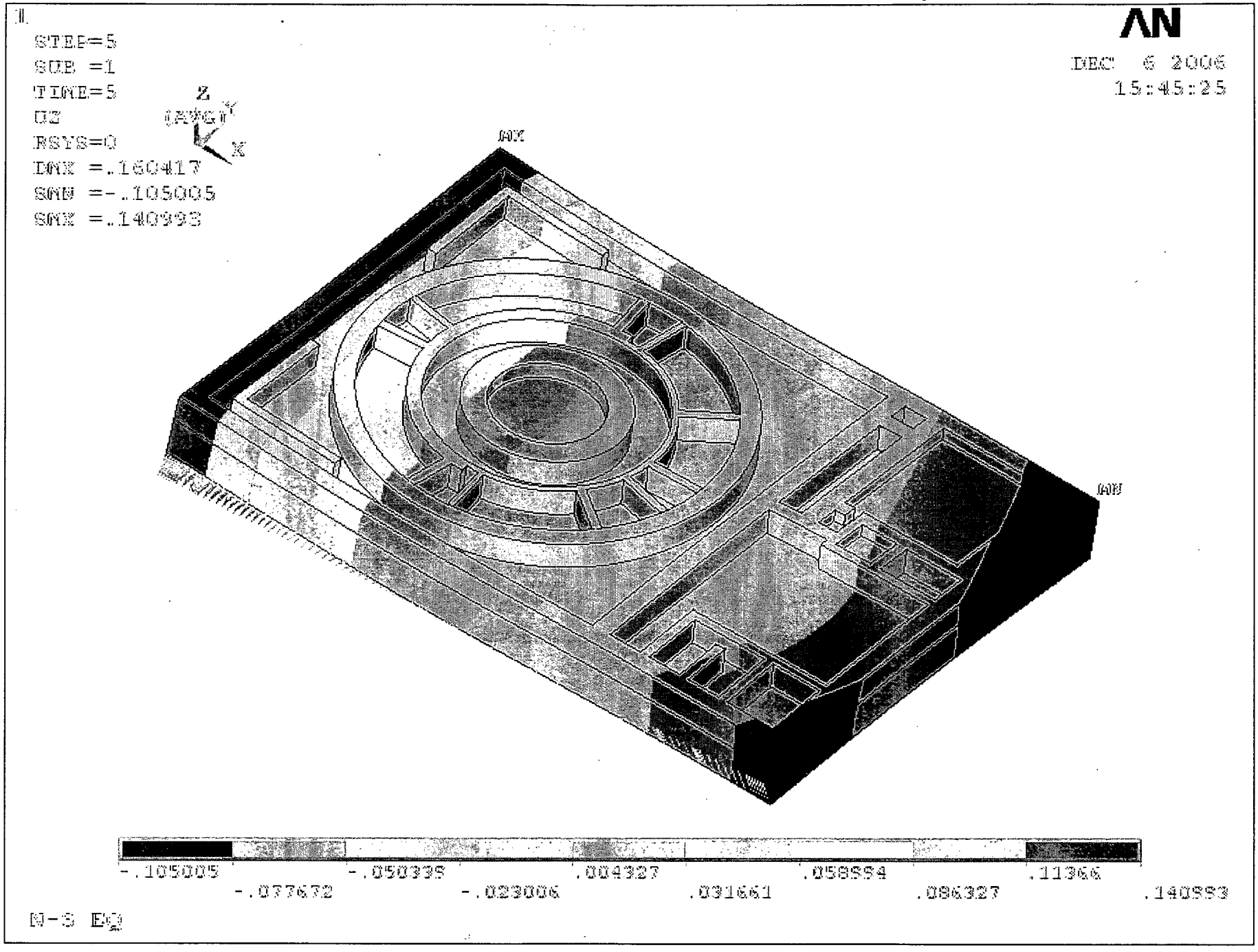
.001856
Pressure Load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SMX =.140993
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Y
X
AN
DEC 6 2006
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MX
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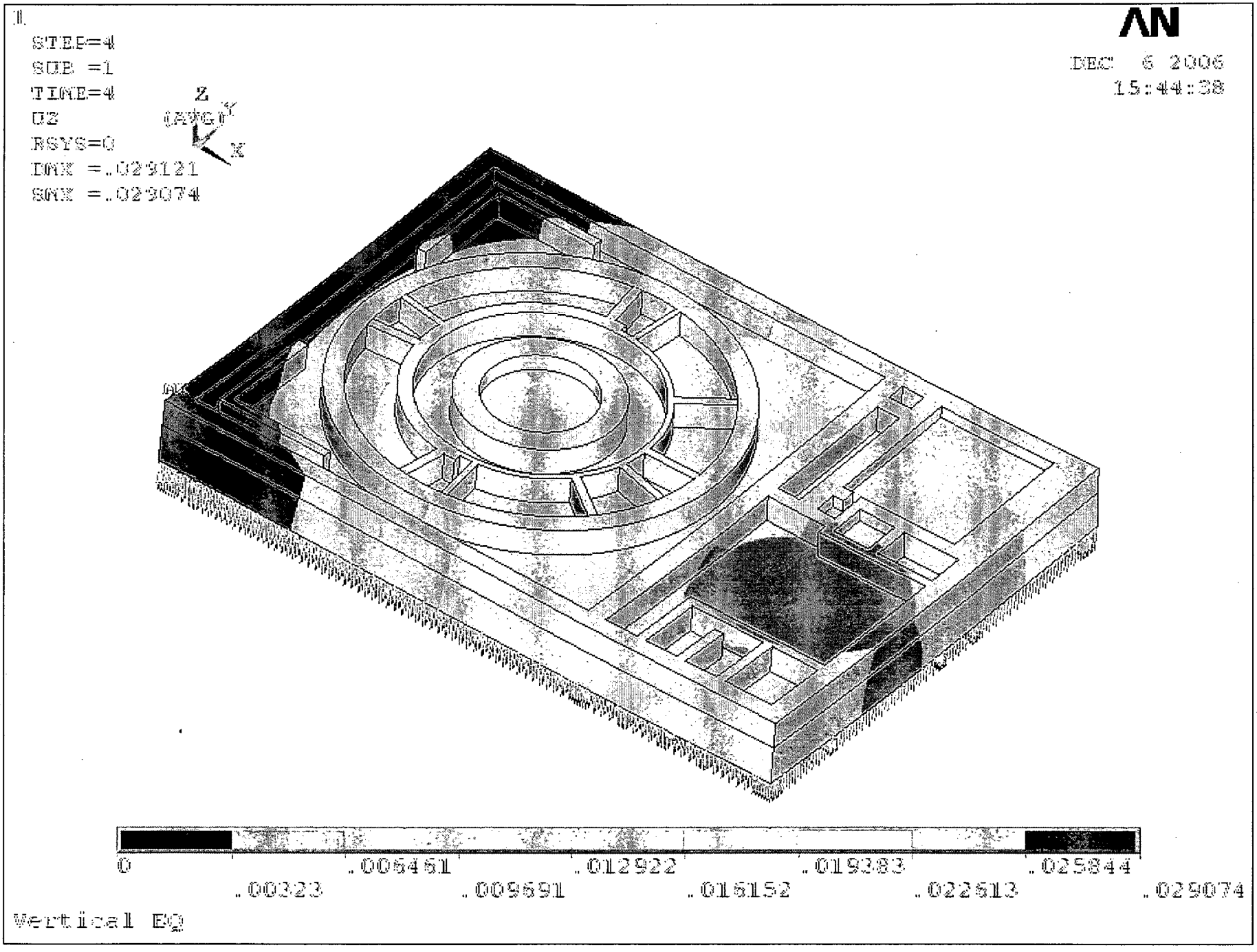
N-S EQ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AN
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Z
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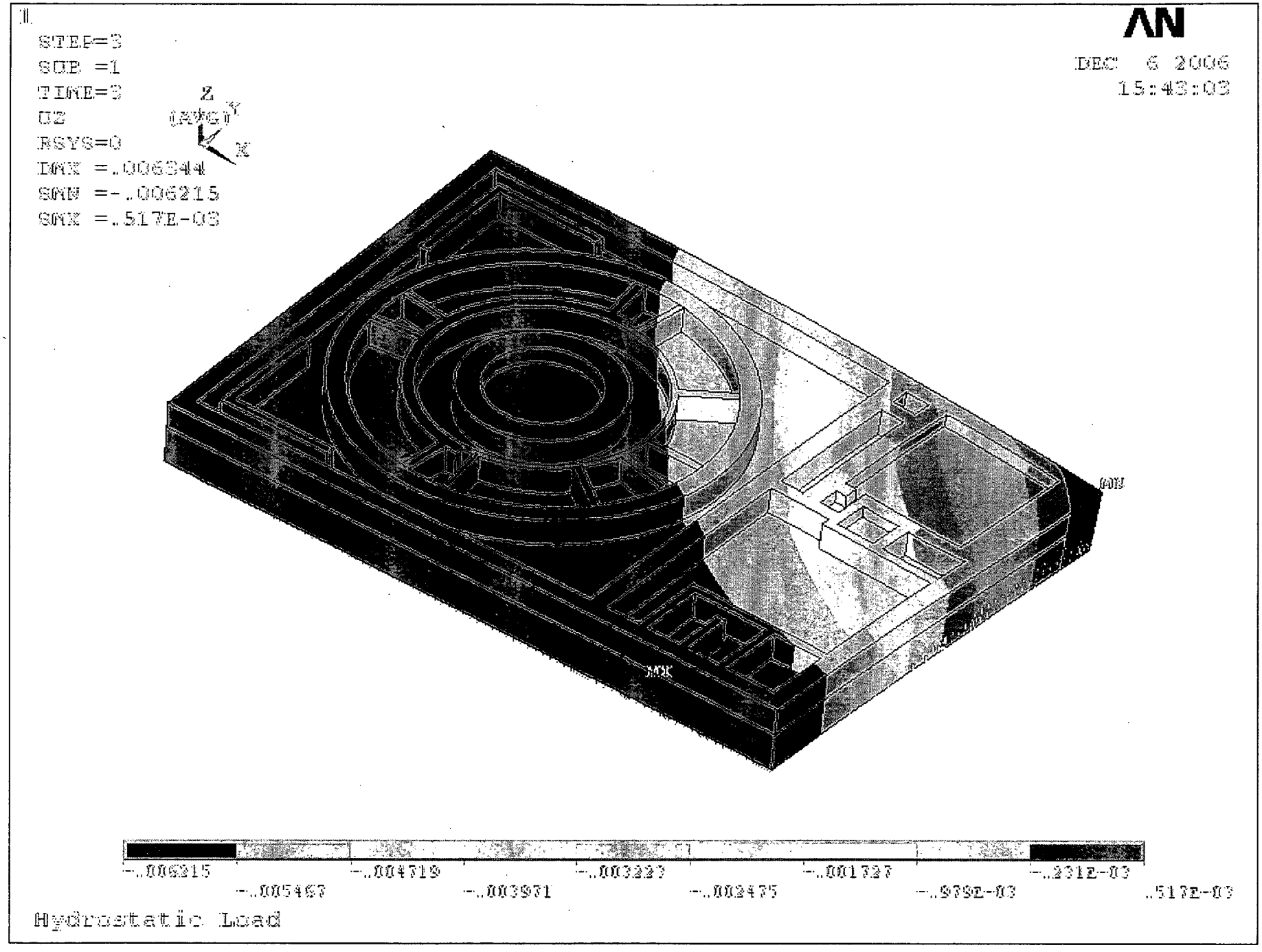
Vertical EQ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Y
X
AN
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MX
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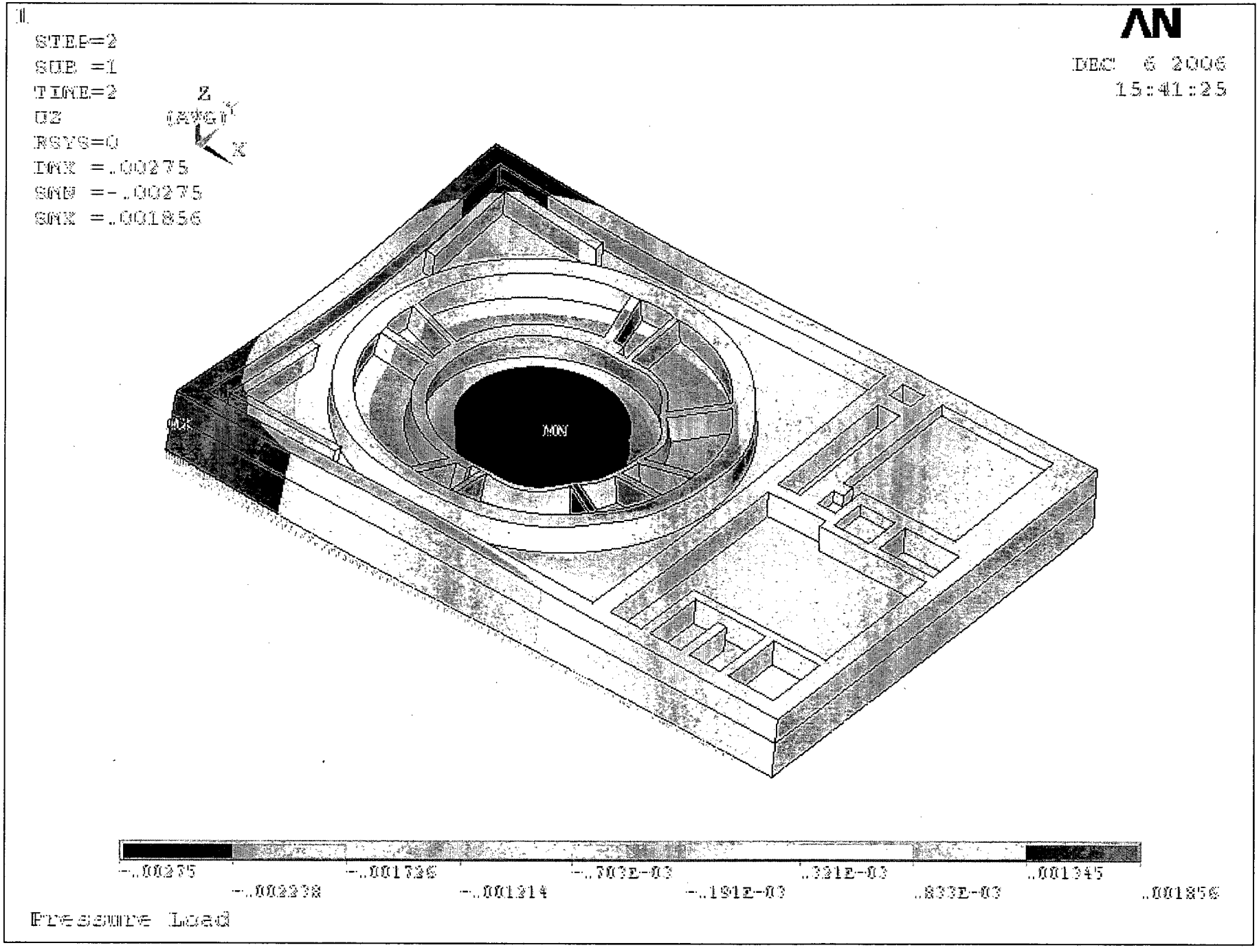
.517E-03
Hydrostatic Load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X
AN
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MX
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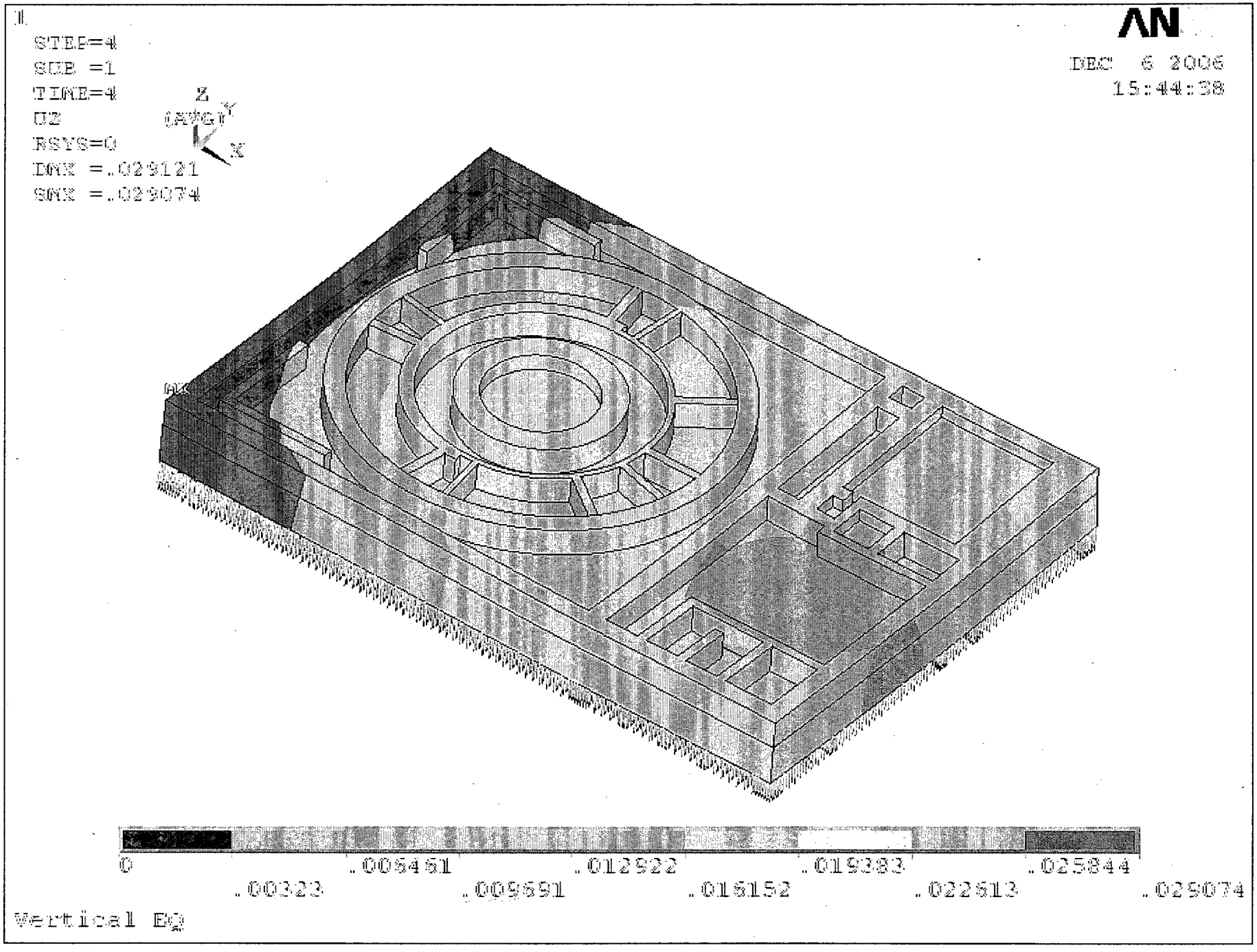
Pressure Load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X
AN
DEC 6 2006
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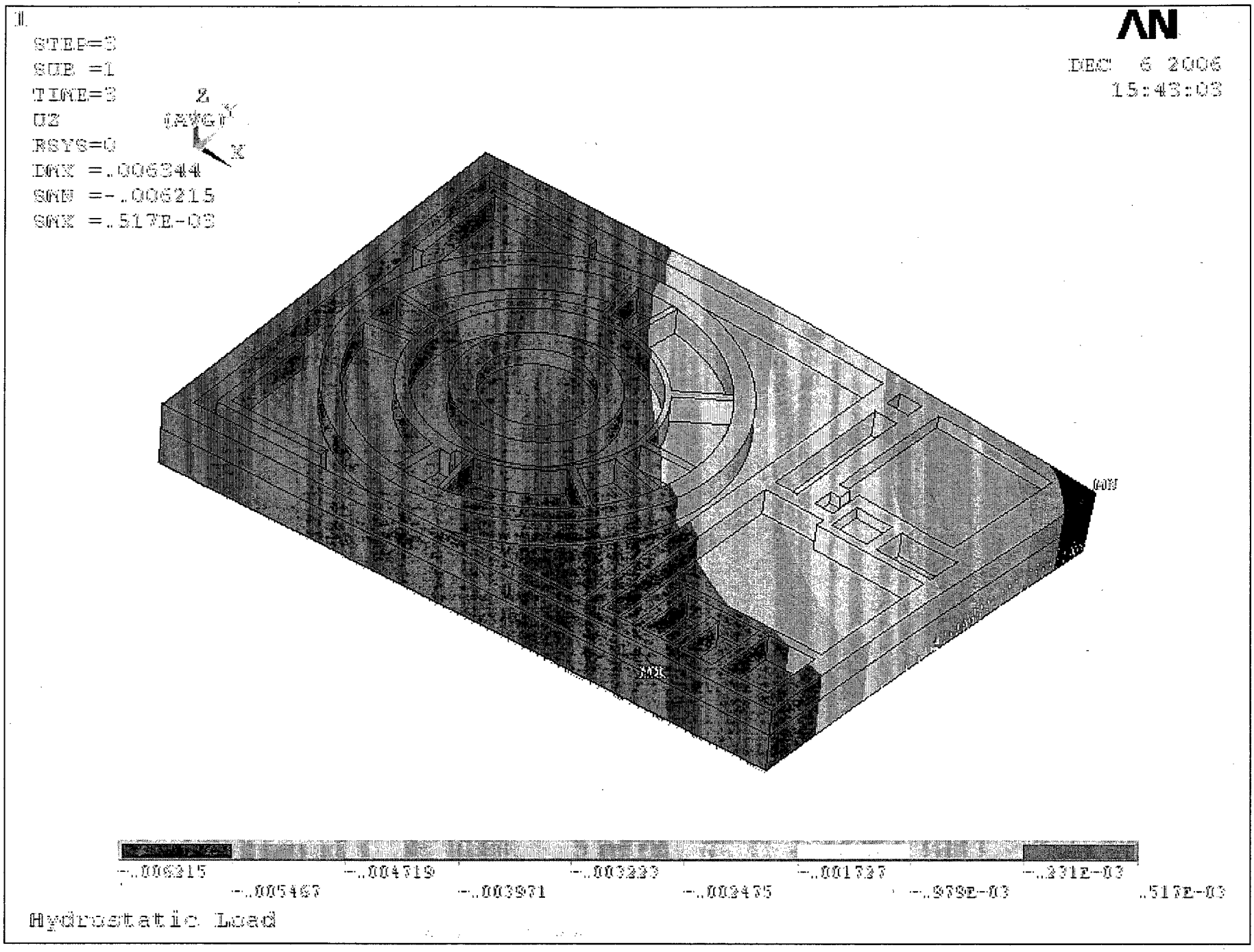
Vertical EQ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X
ANSYS
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MX
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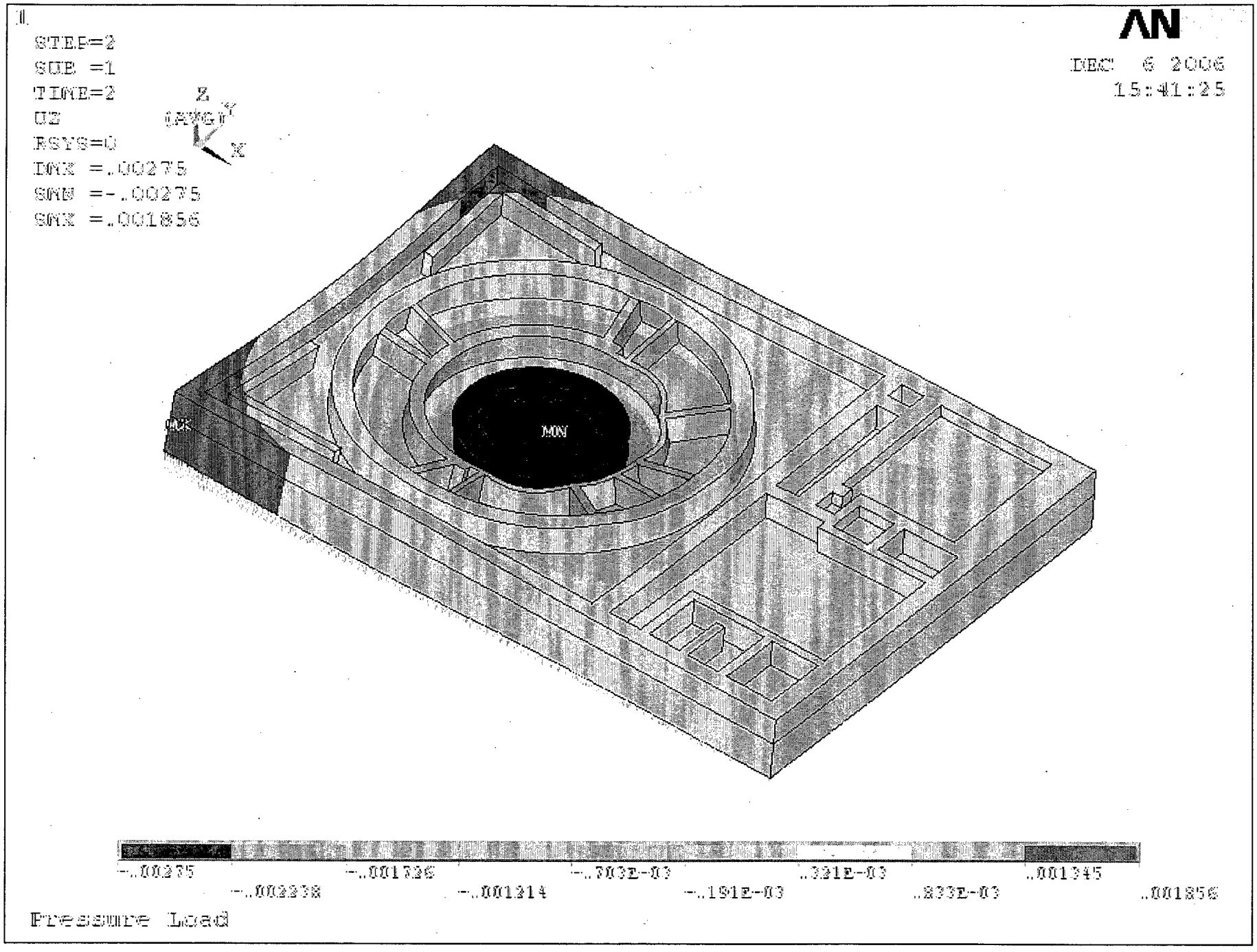
Hydrostatic Load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X
AN
DEC 6 2006
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MAX
MIN
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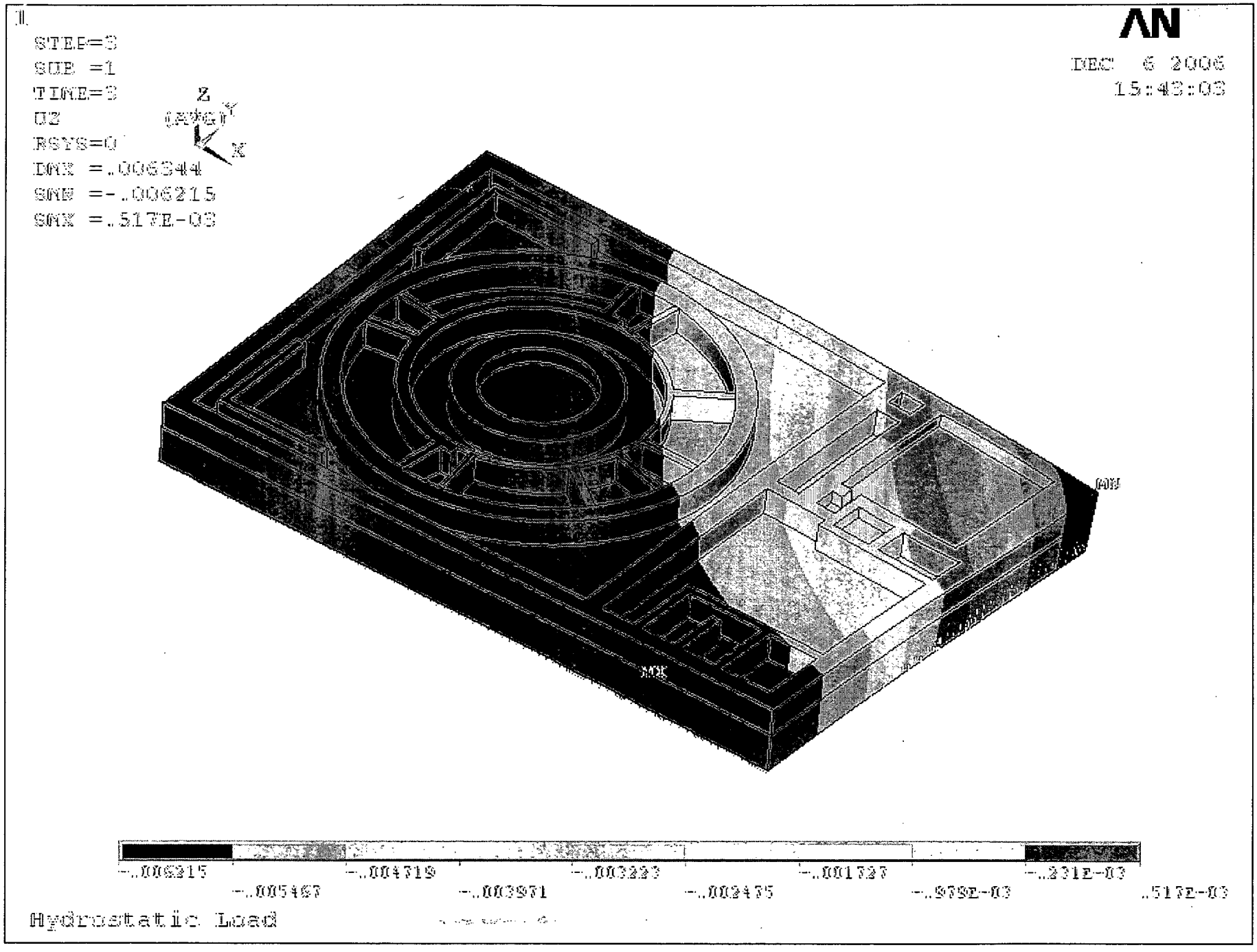
Pressure Load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MX
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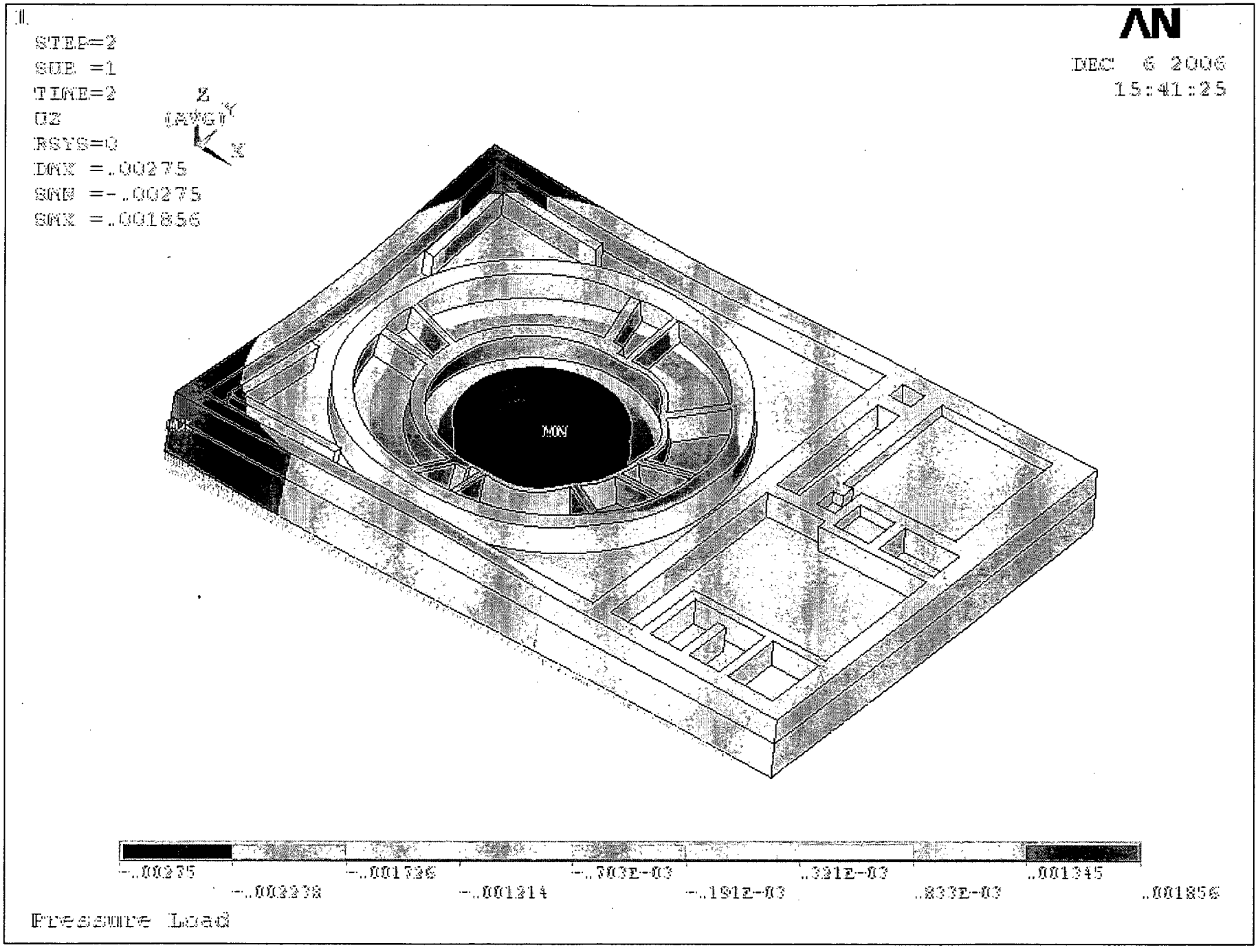
Hydrostatic Load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X
AN
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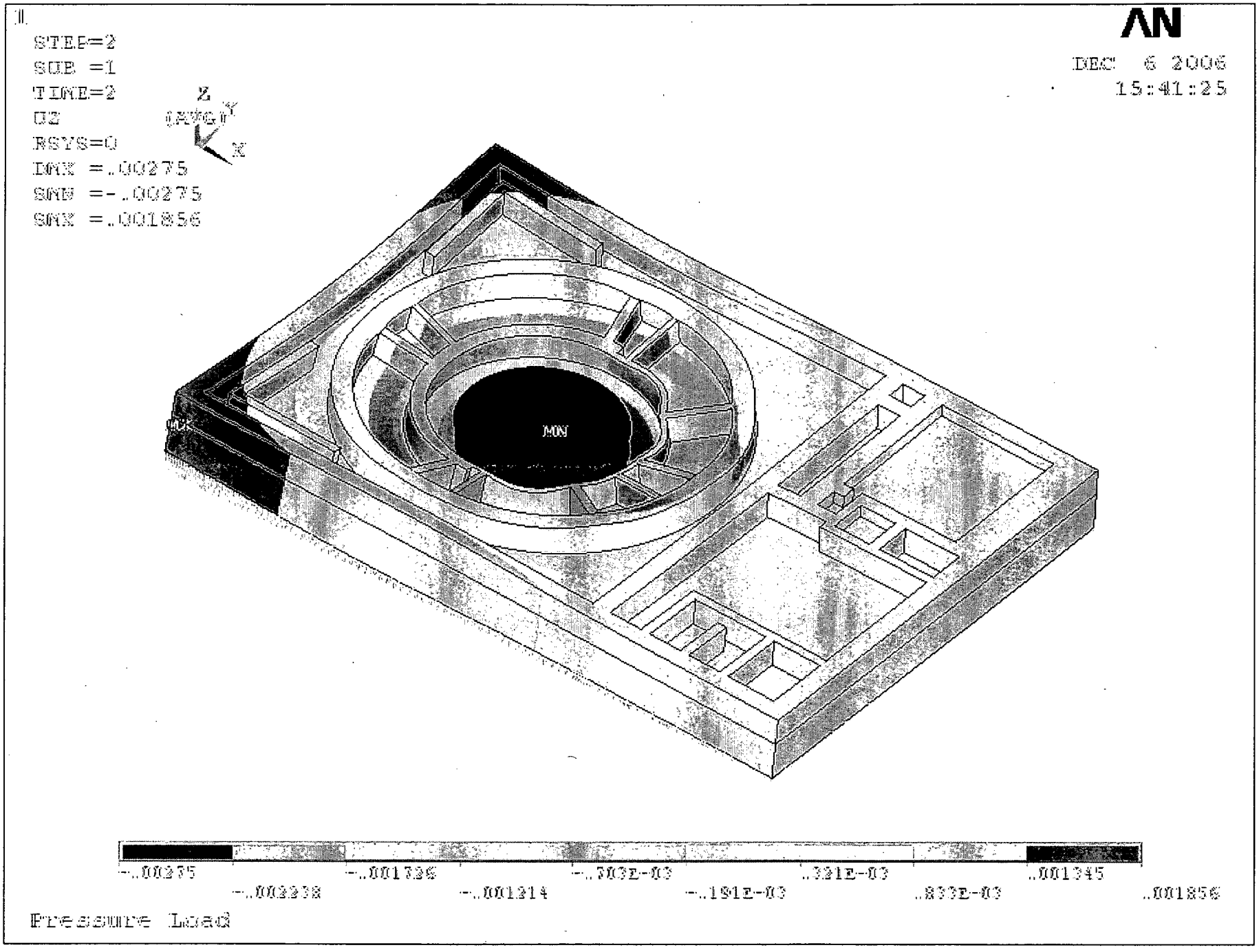
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X
AN
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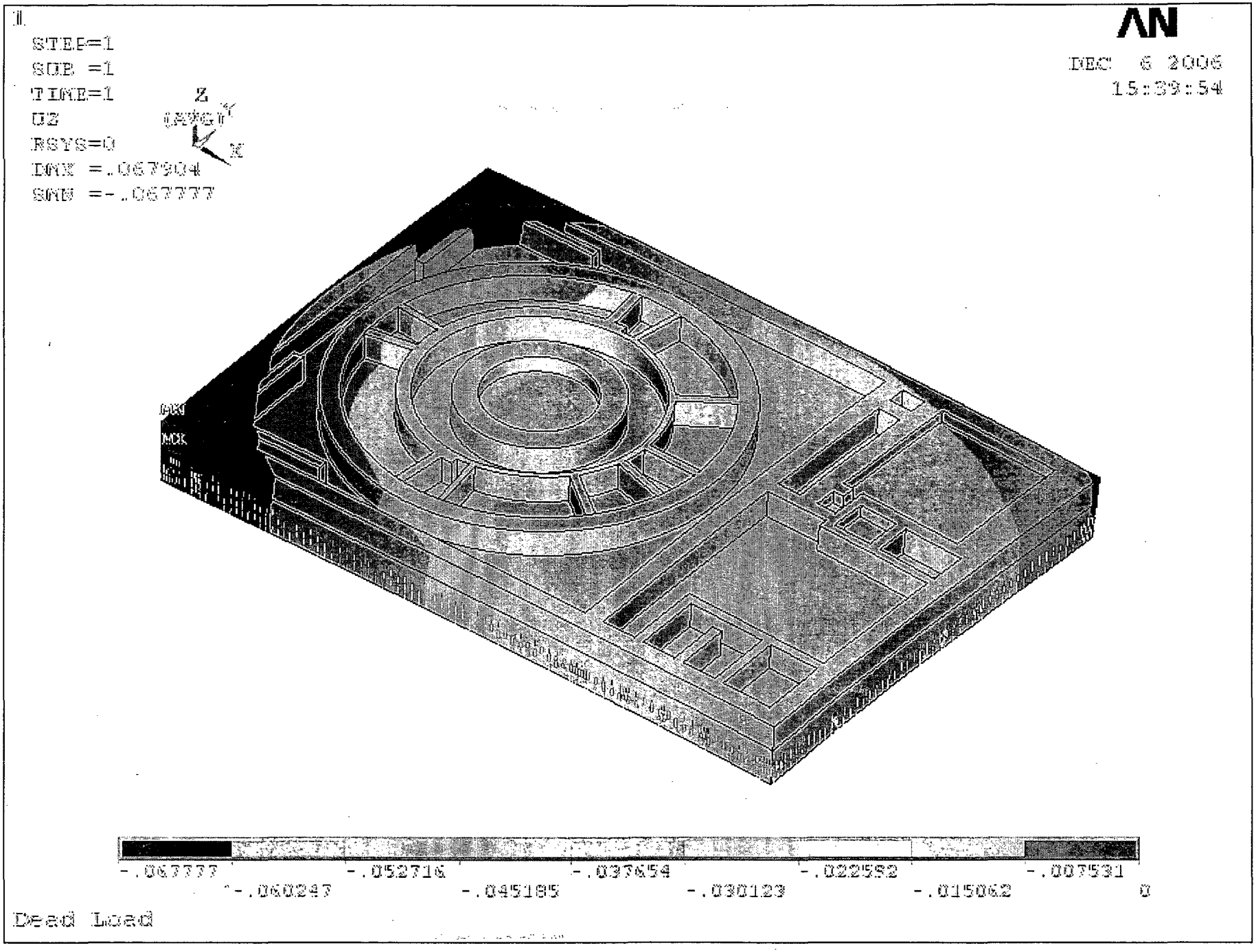
Pressure Load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X
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DEC 6 2006
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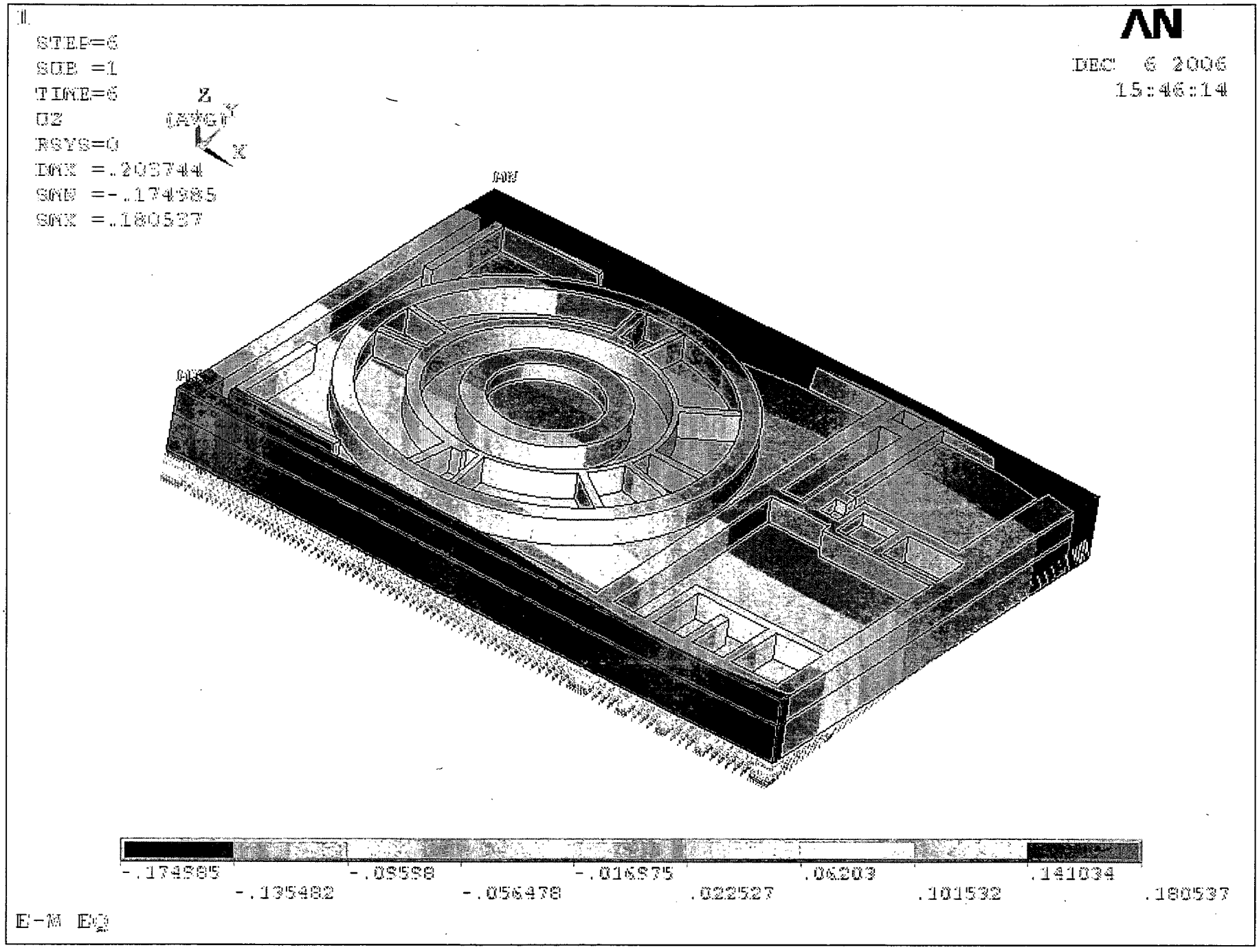
Dead Load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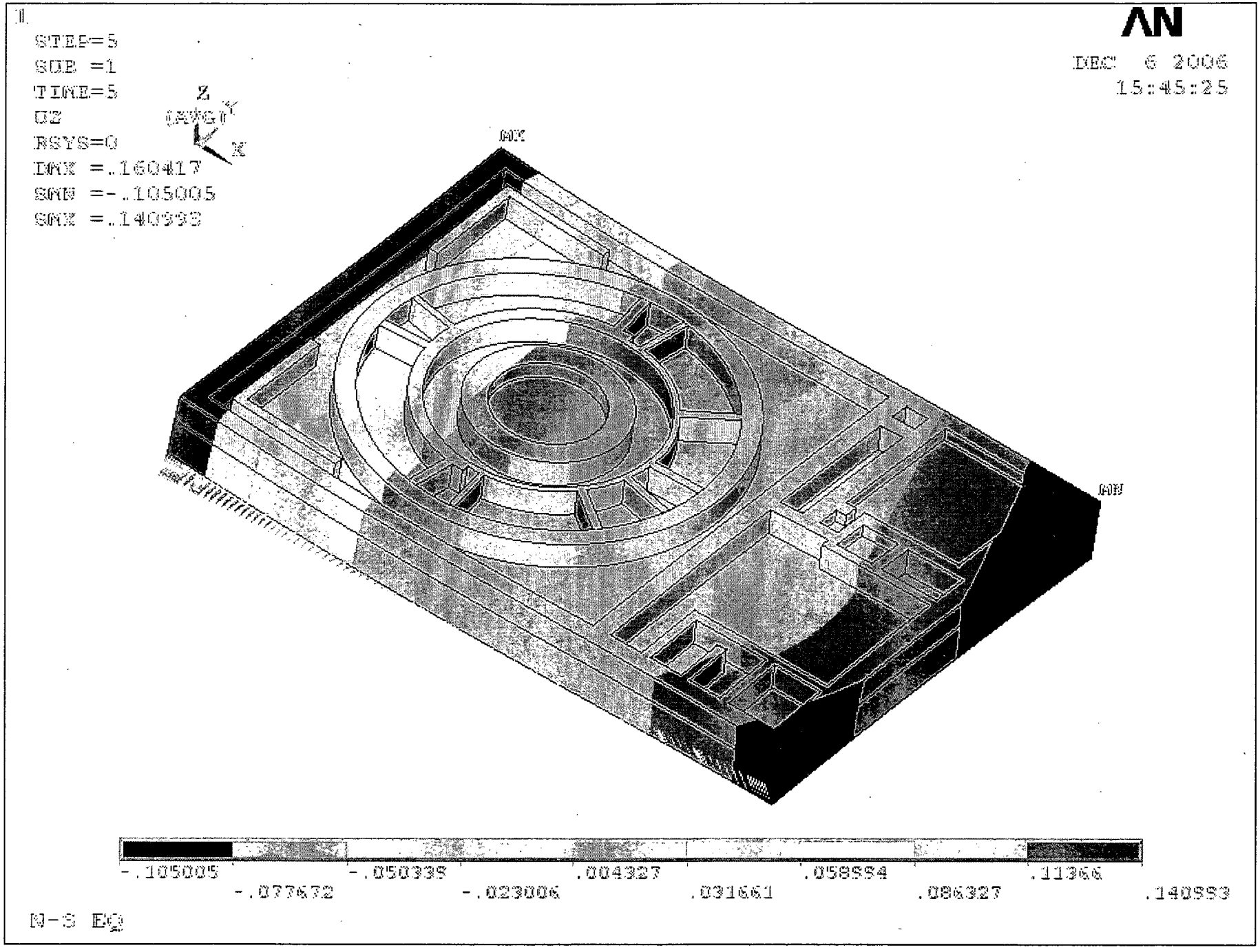
E-M EQ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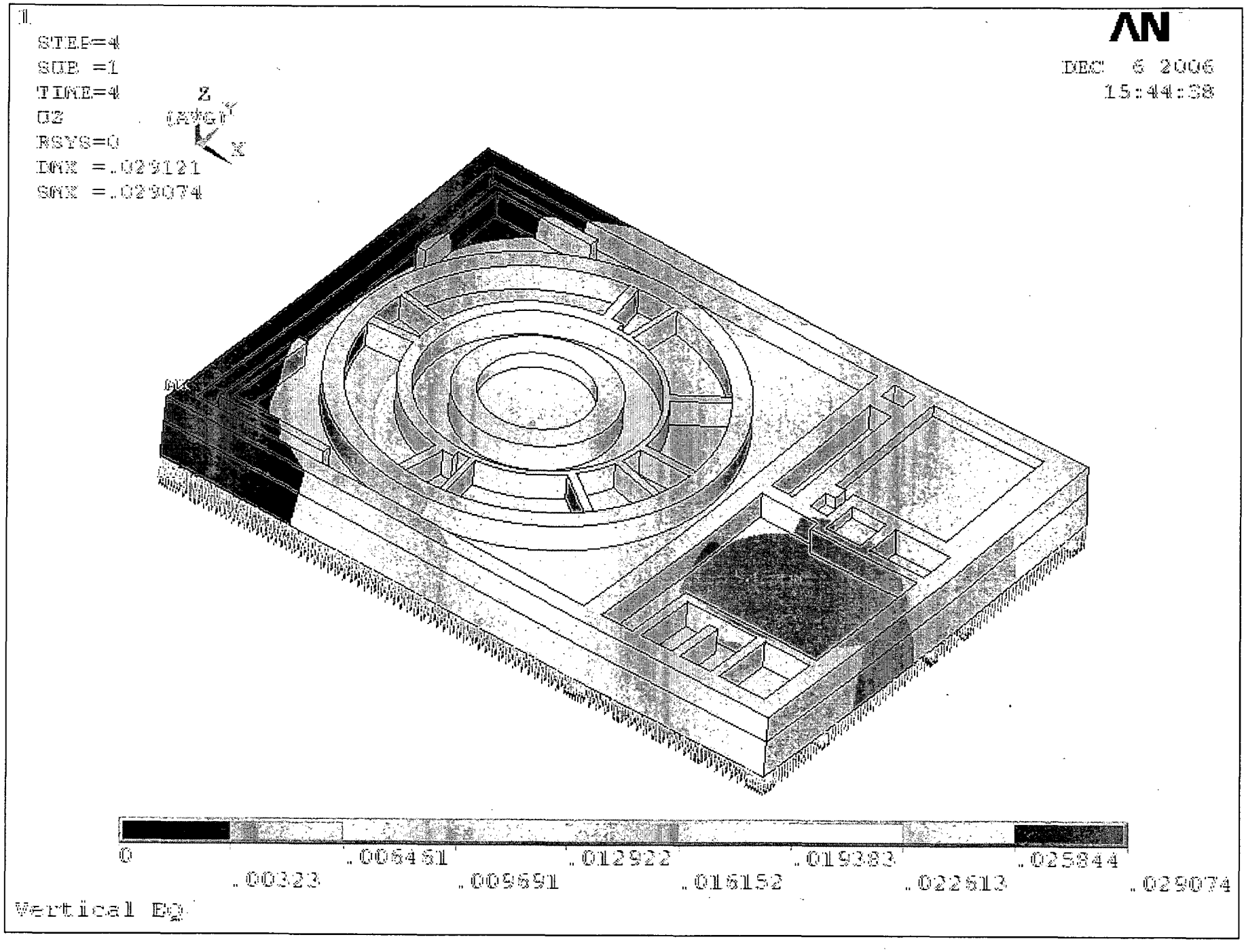
N-S EQ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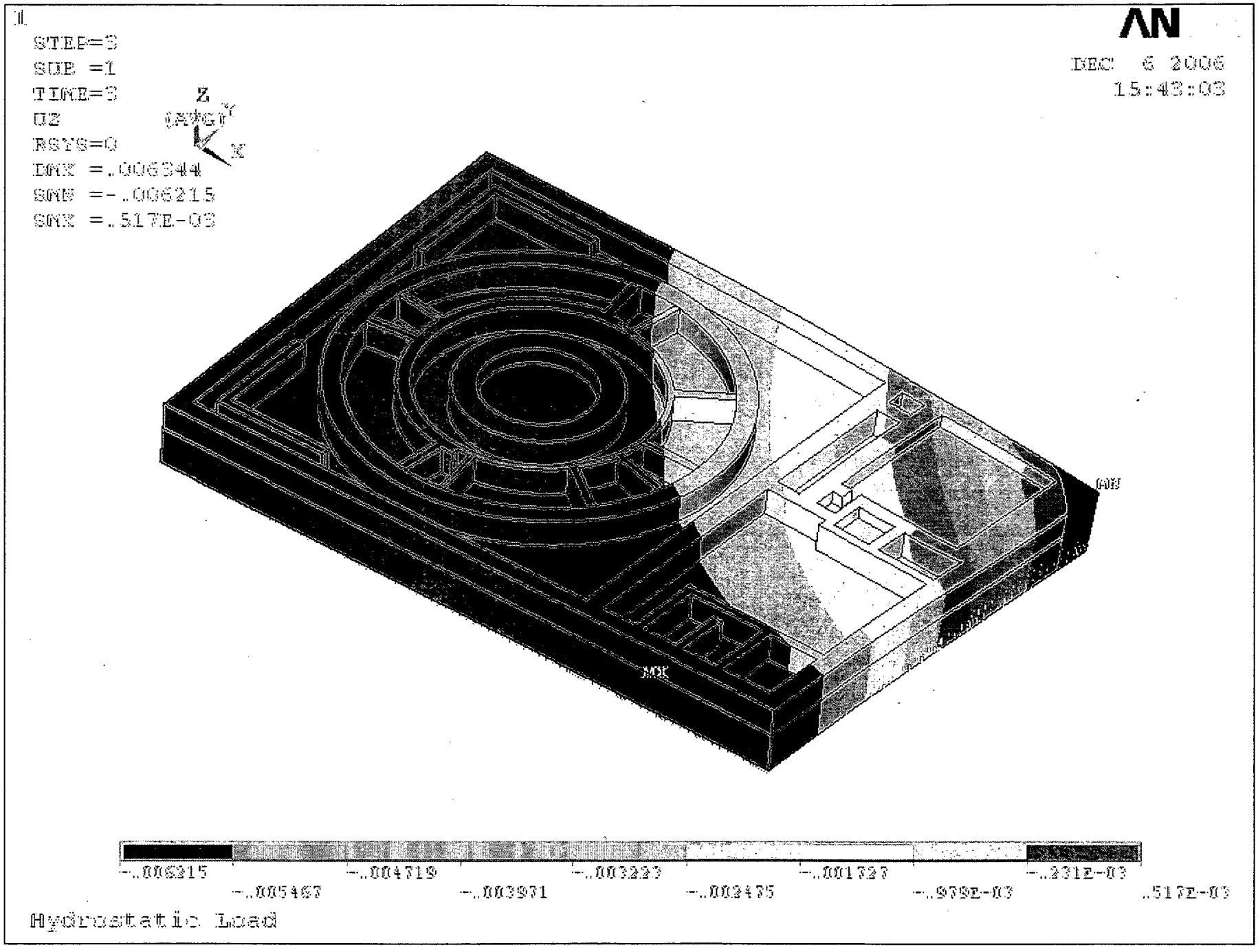
Vertical EQ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DEC 6 2006
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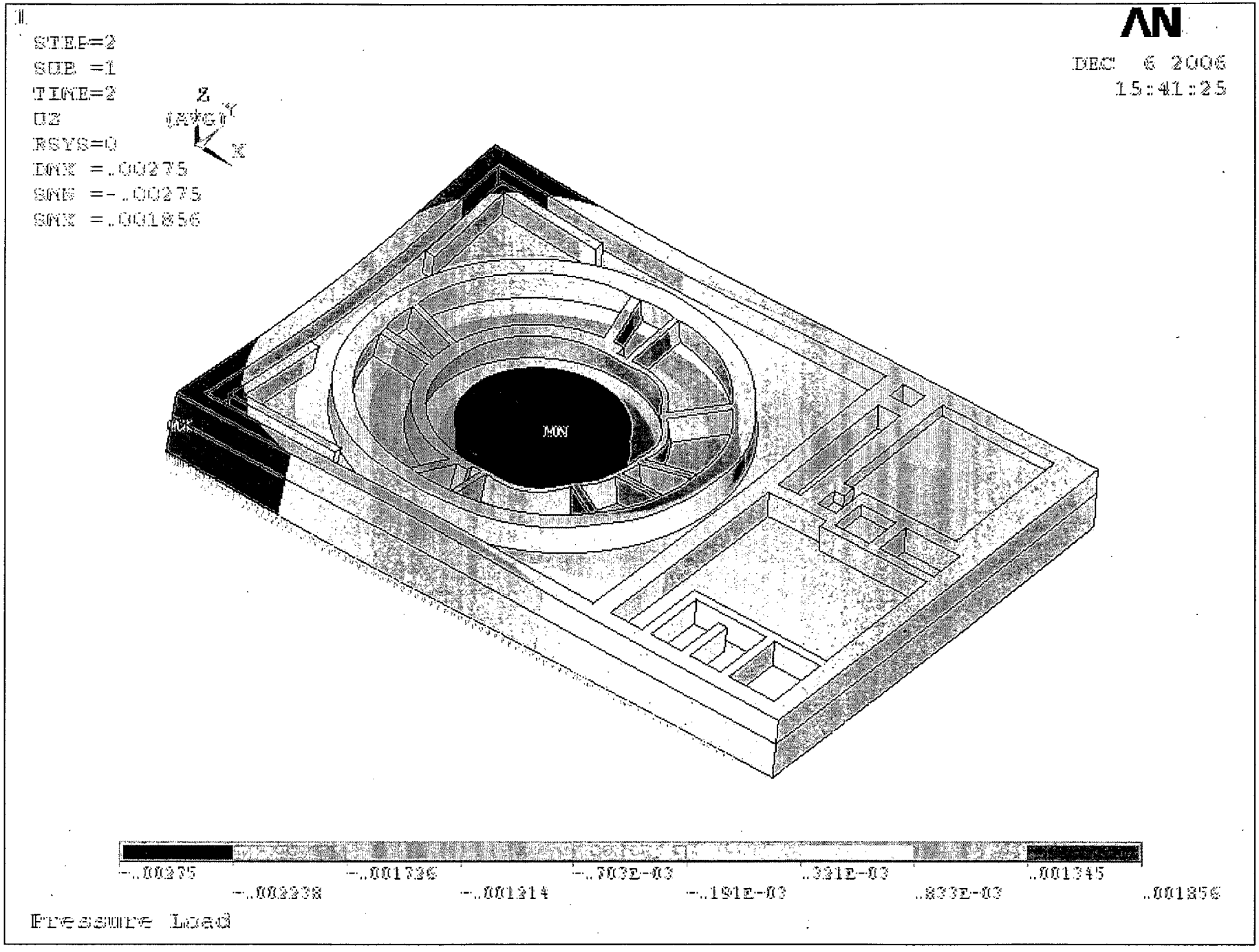
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TIME=2
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SMN =-.00275
SMX =.001856
Z
Y
X
AN
DEC 6 2006
15:41:25
MN
MX
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.833E-03
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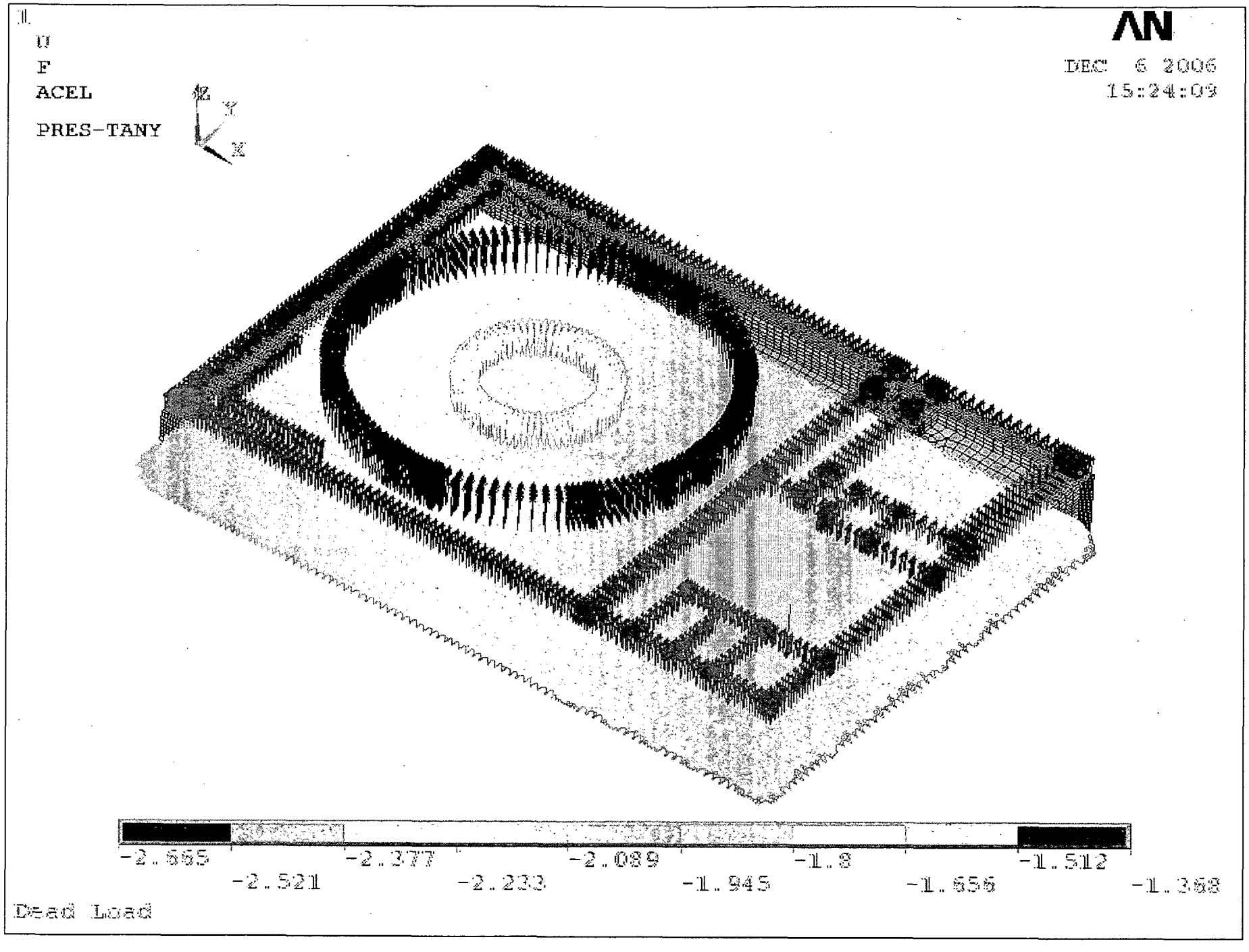
Pressure Load


1
U
F
ACEL
PRES-TANY
Z
Y
X
AN
DEC 6 2006
15:24:09
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-2.233
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-1.656
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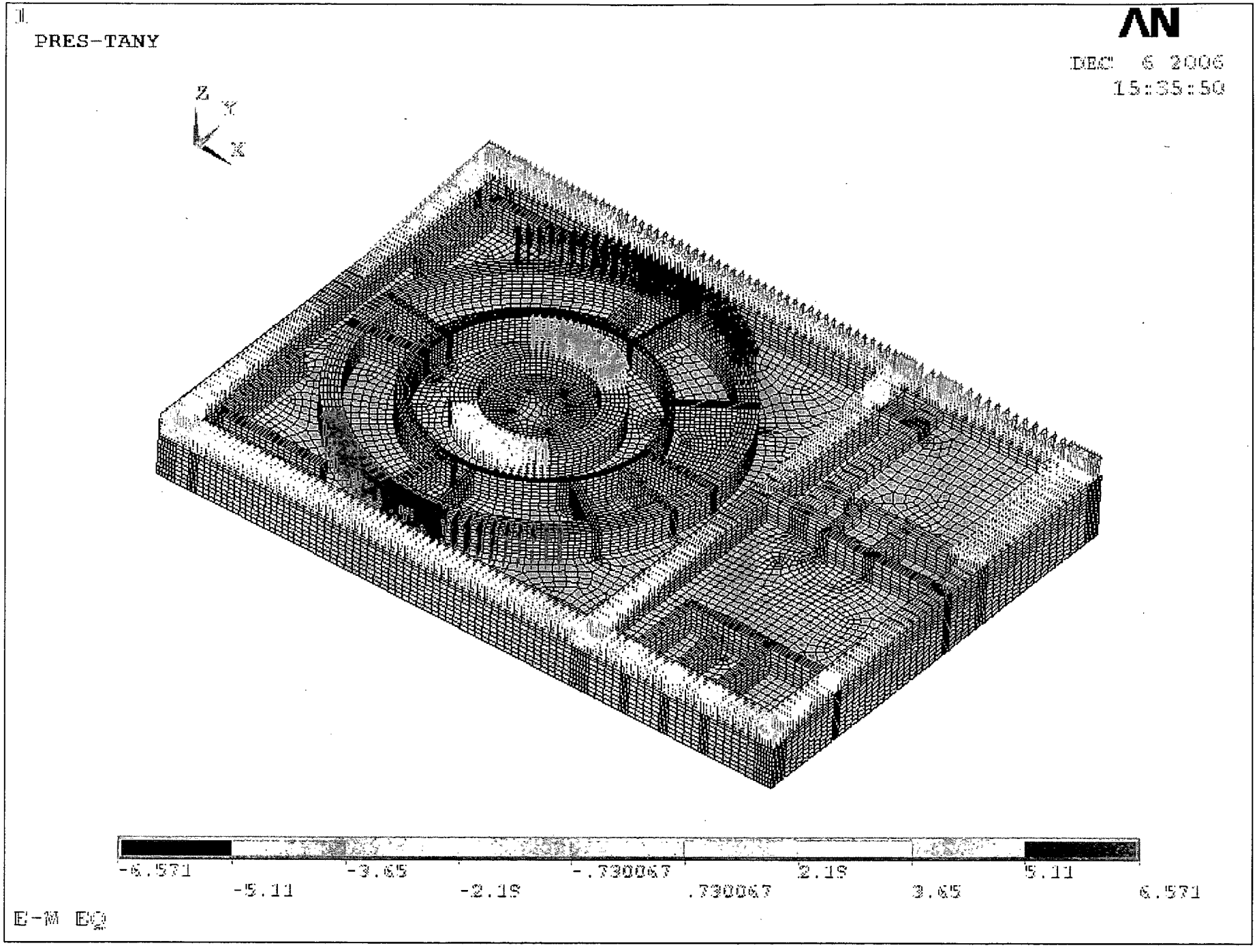
Dead Load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DEC 6 2006
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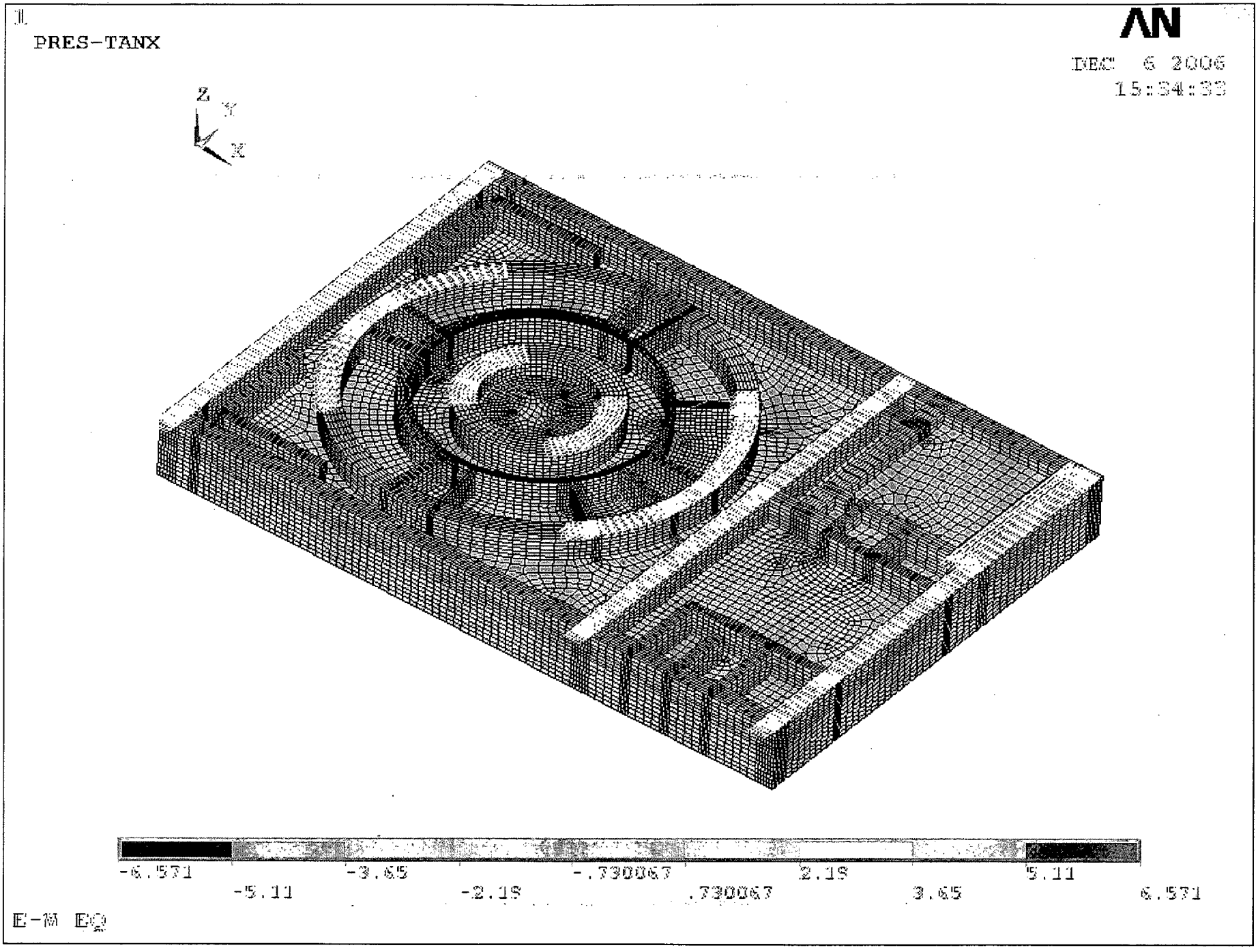
E-M EQ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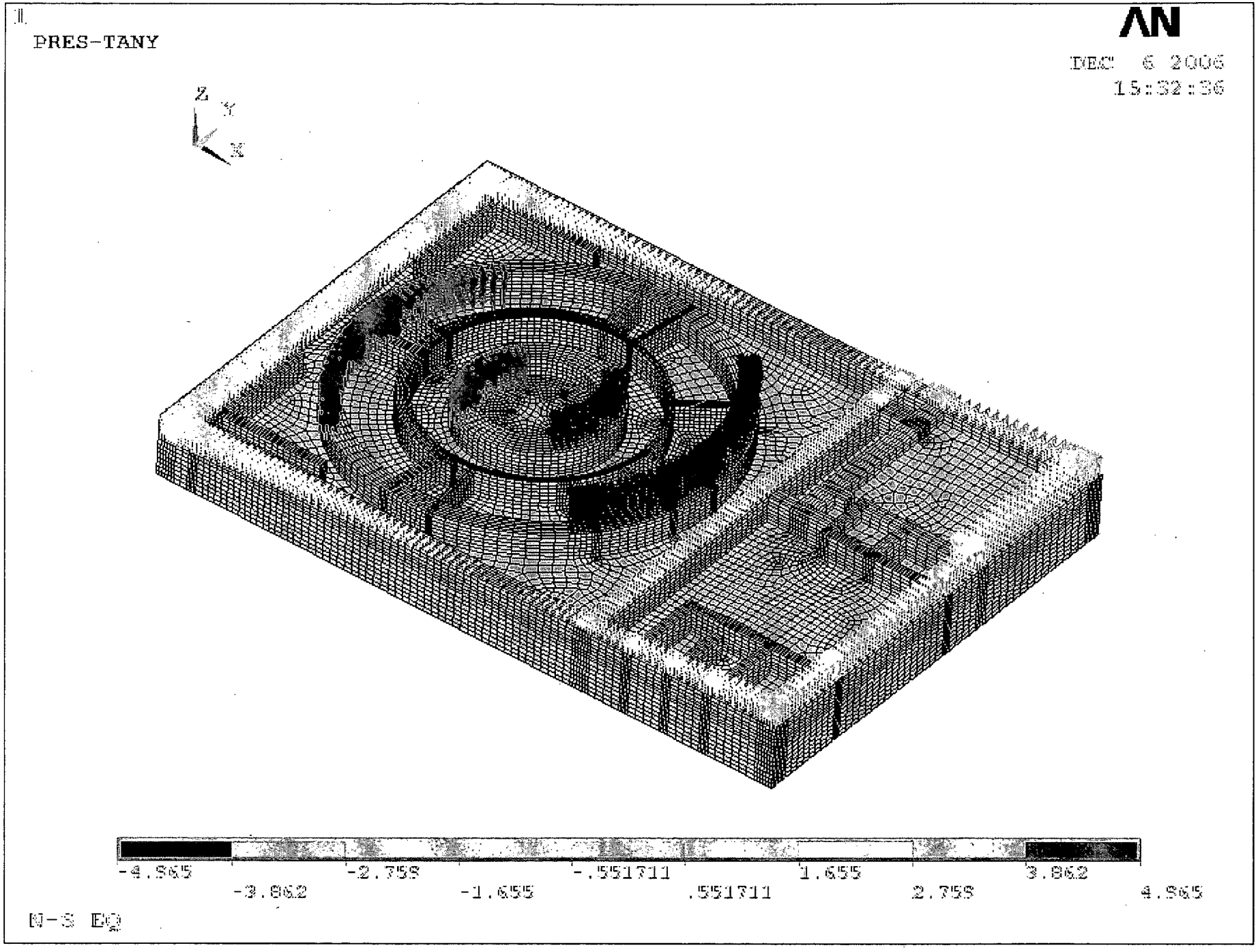
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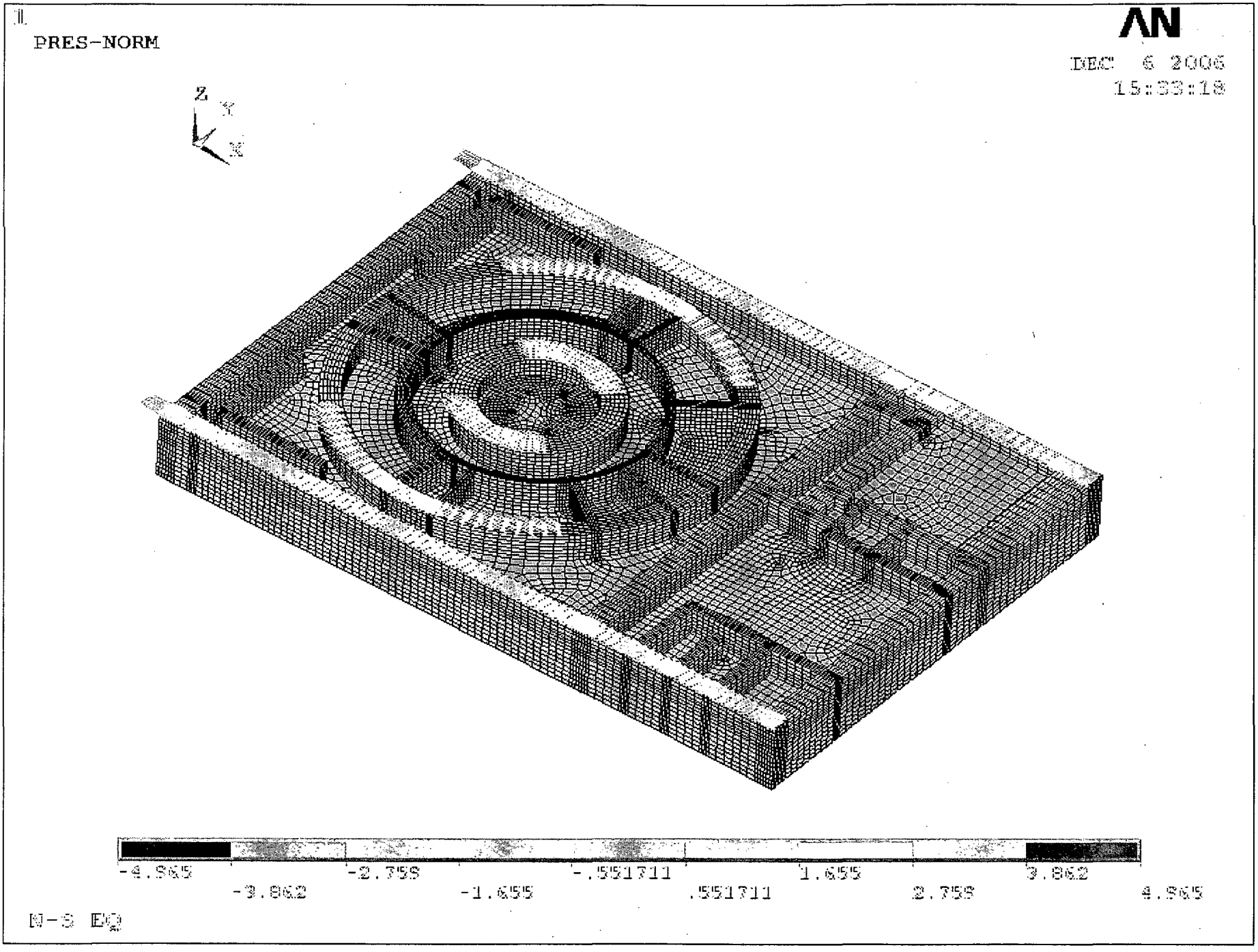
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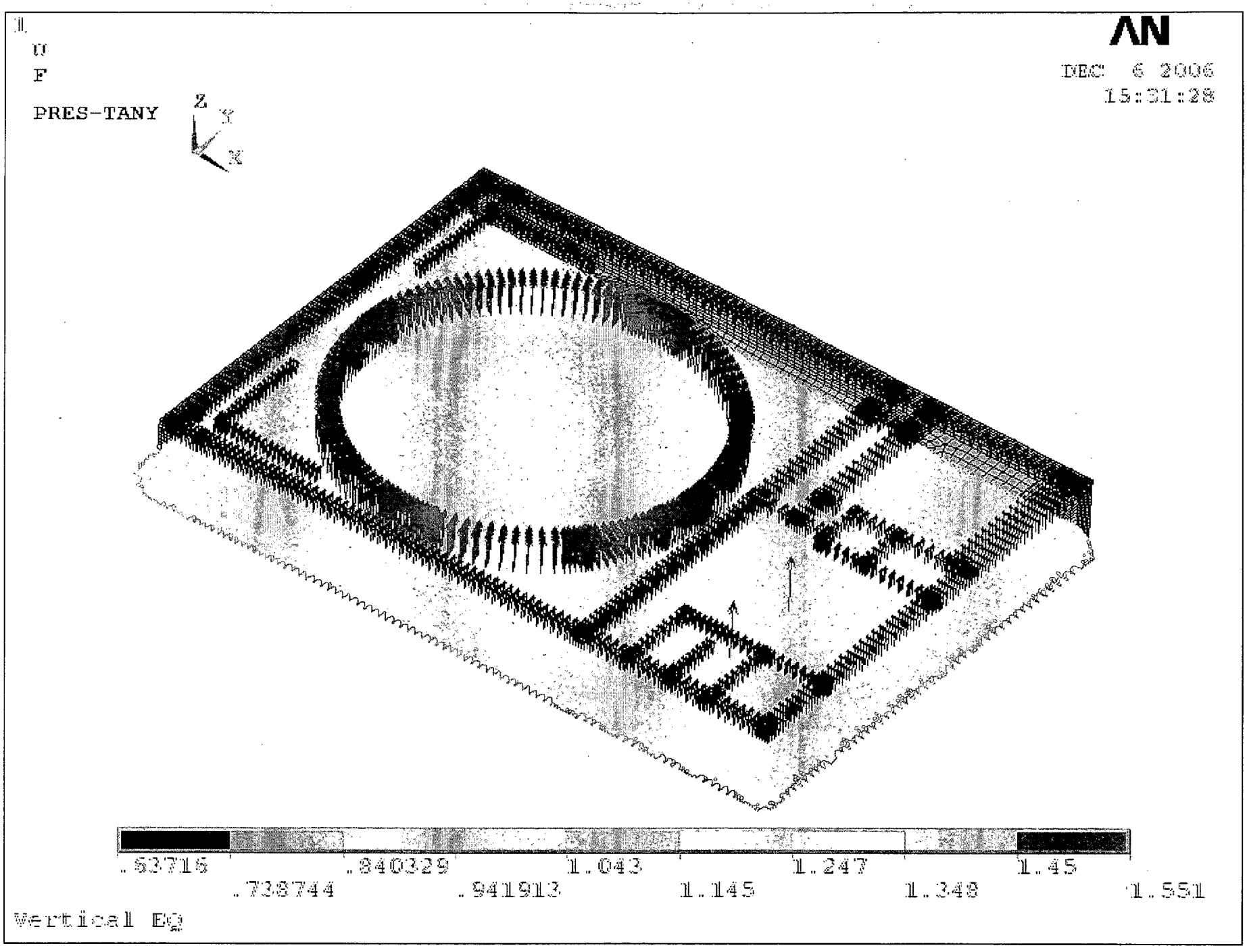
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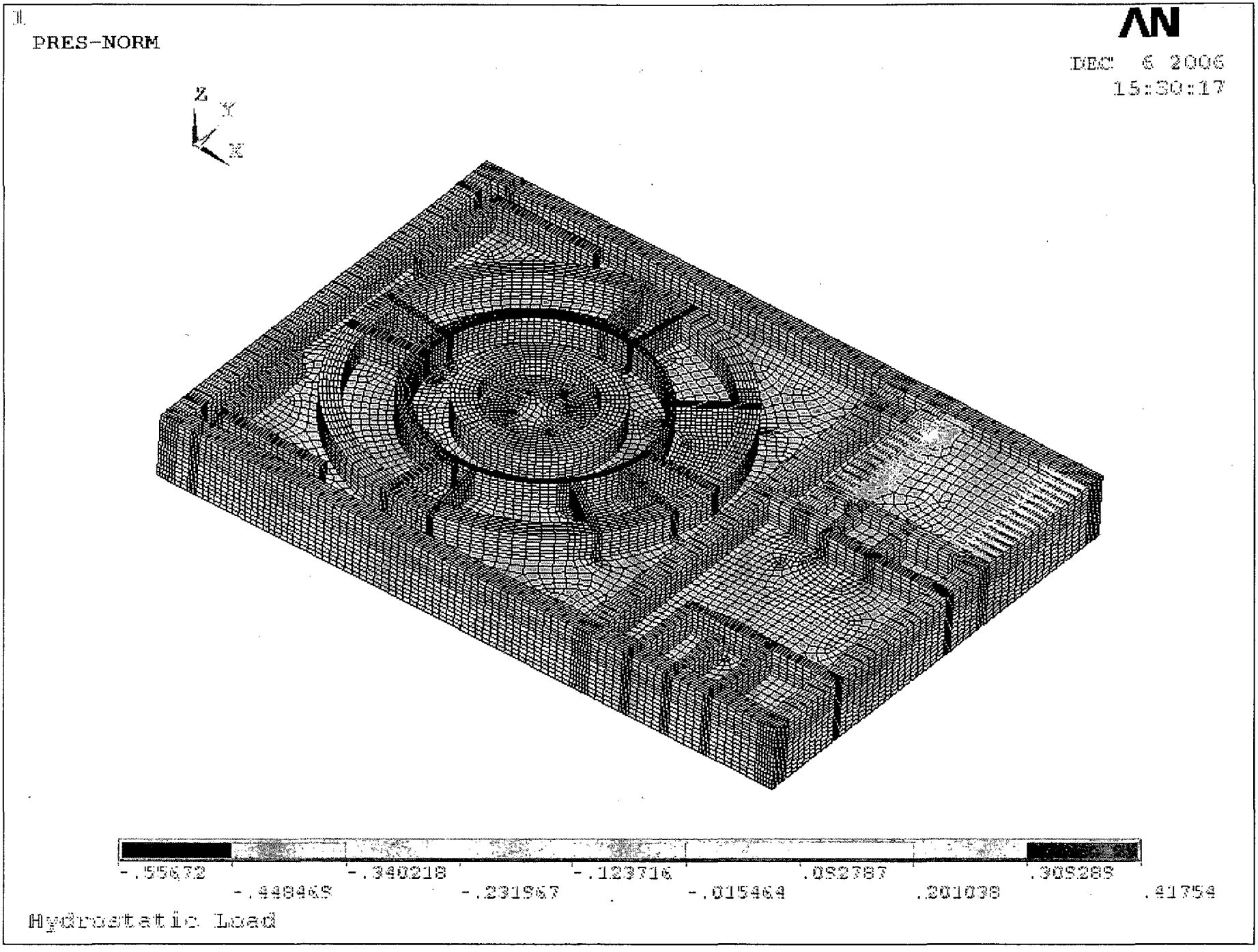
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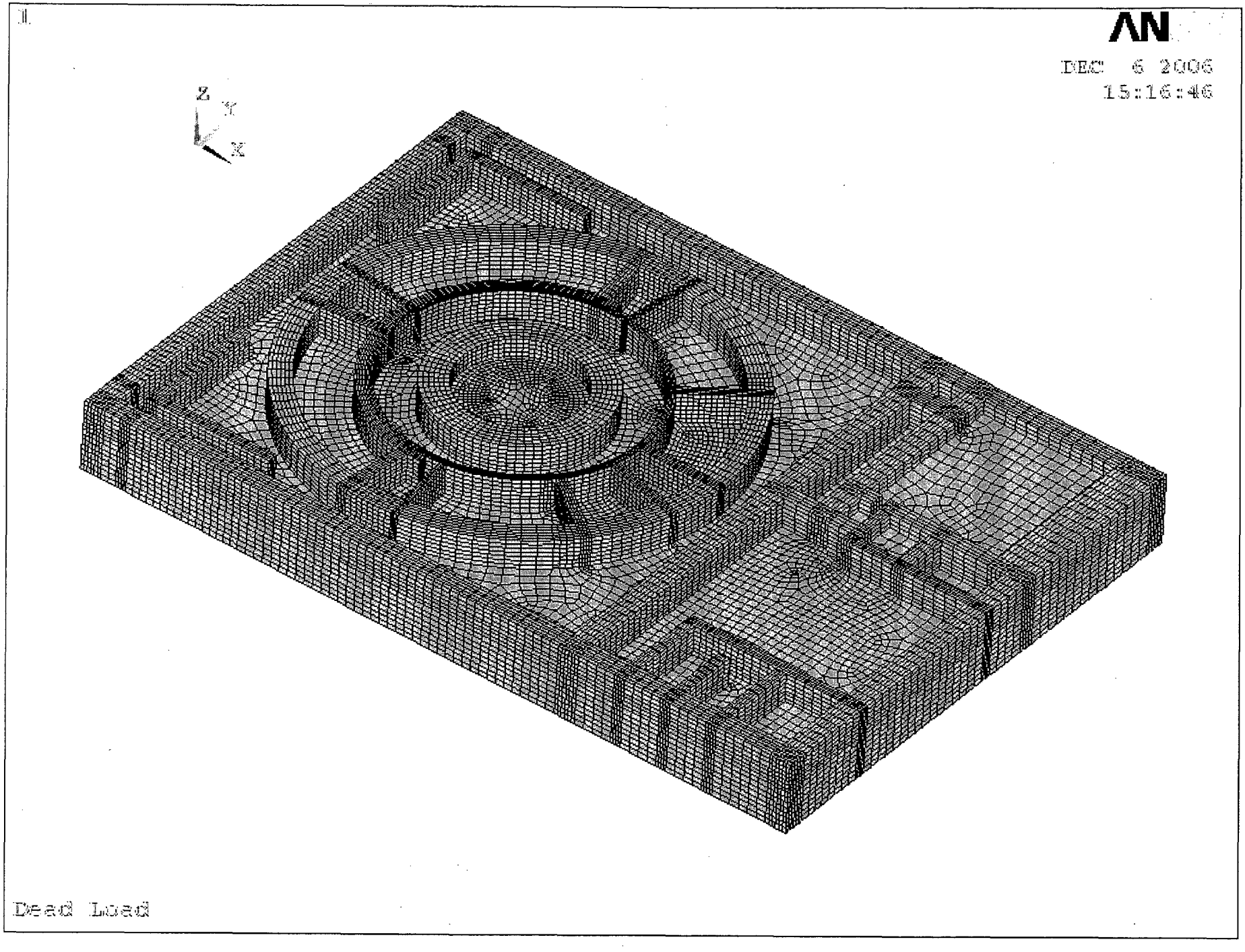
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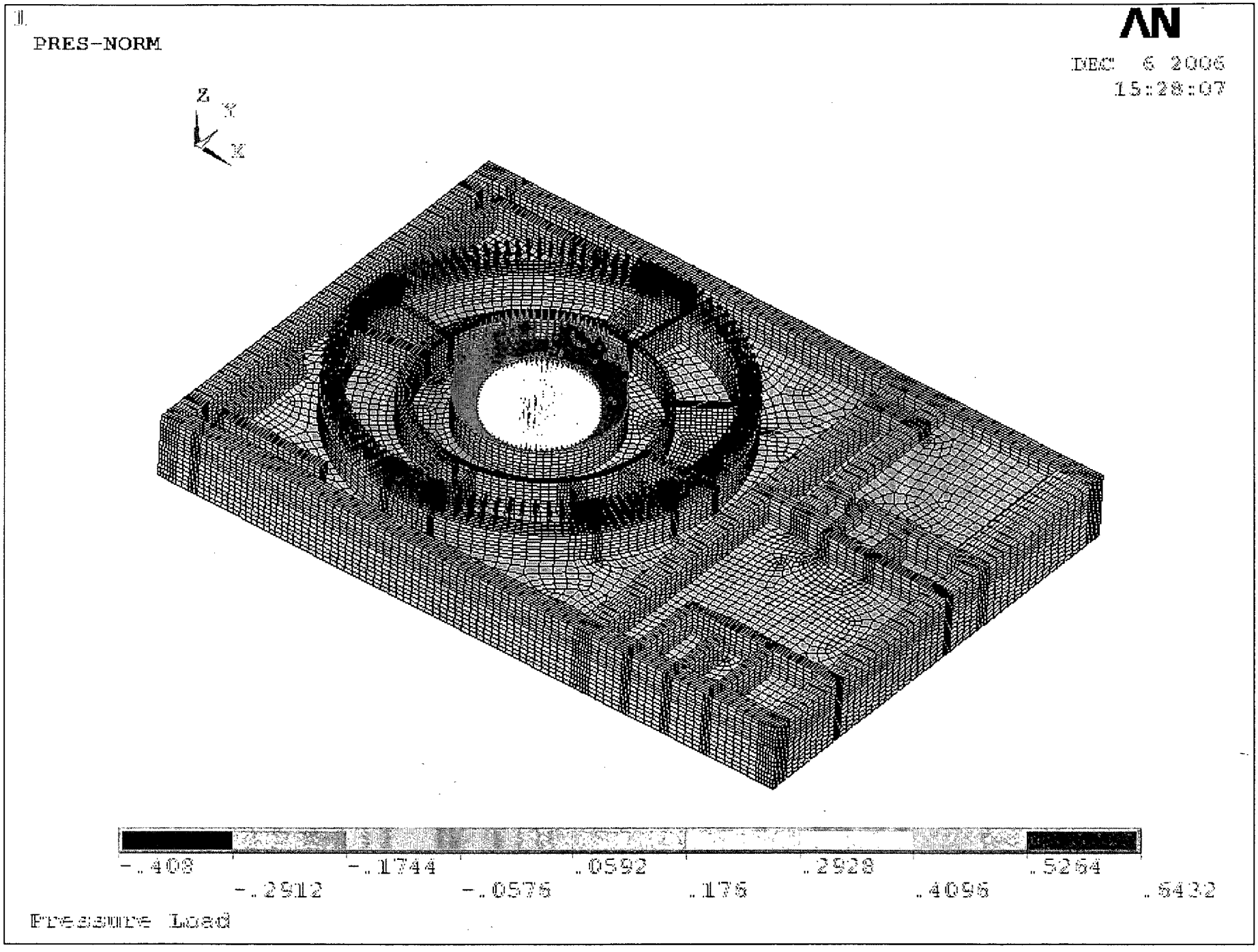
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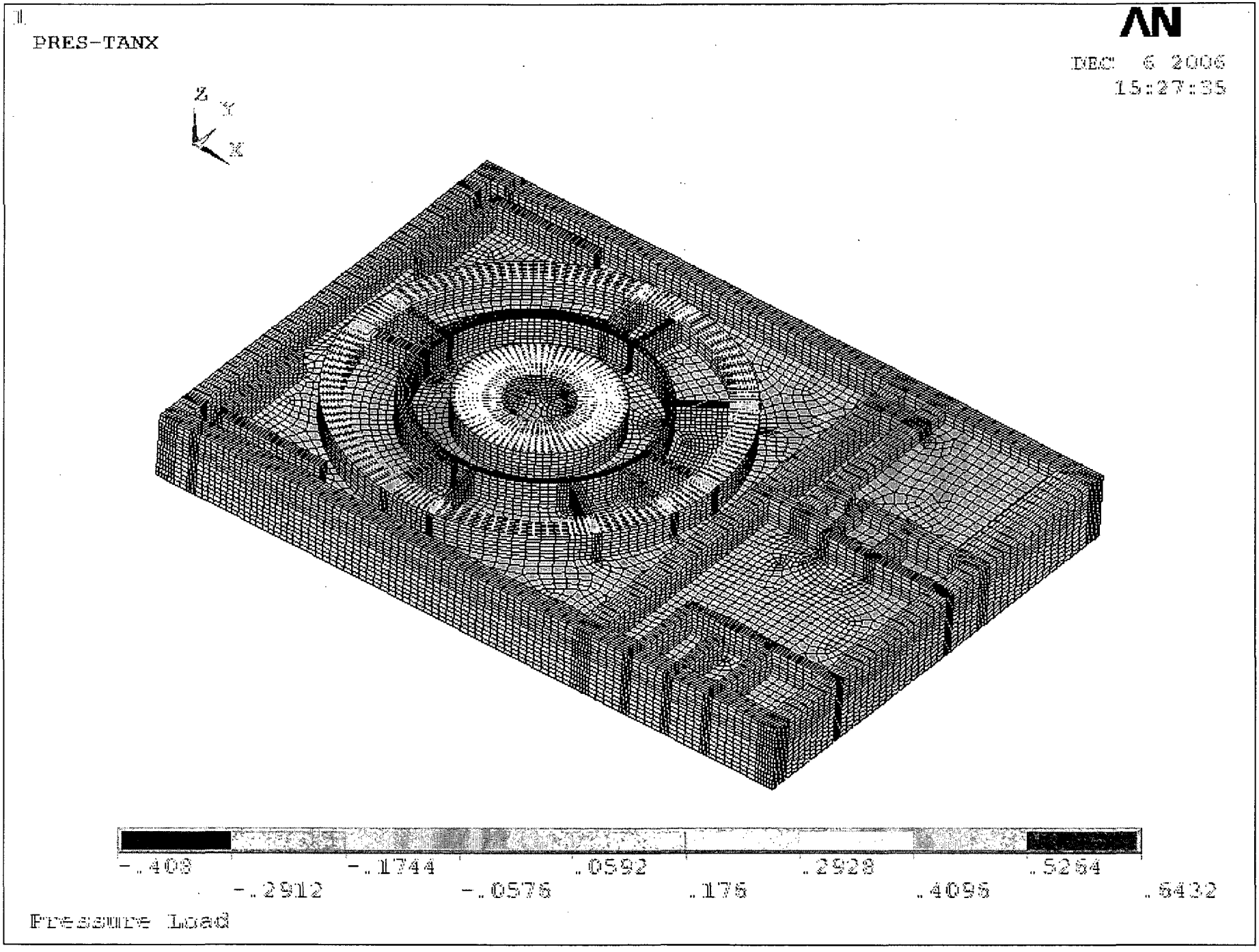
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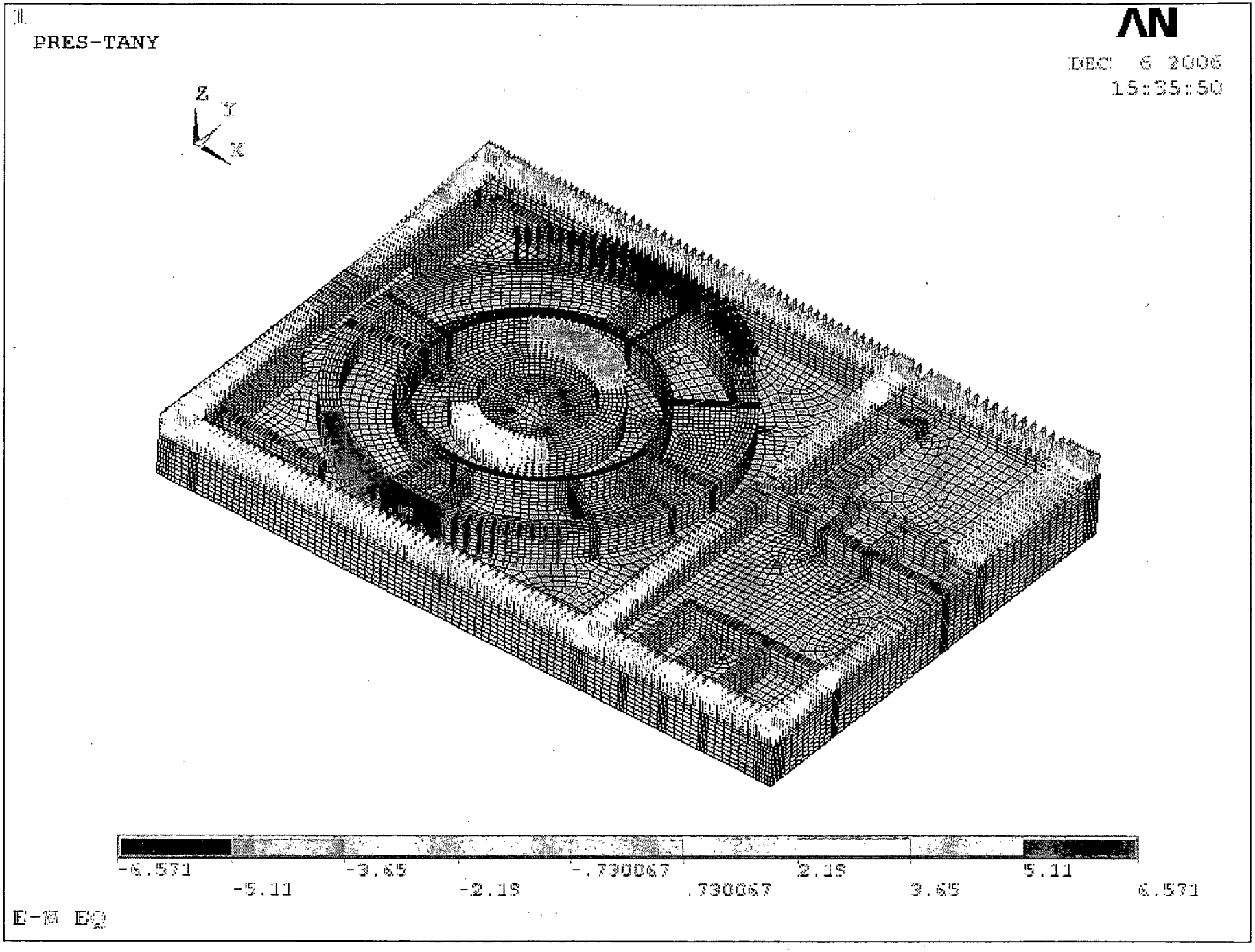
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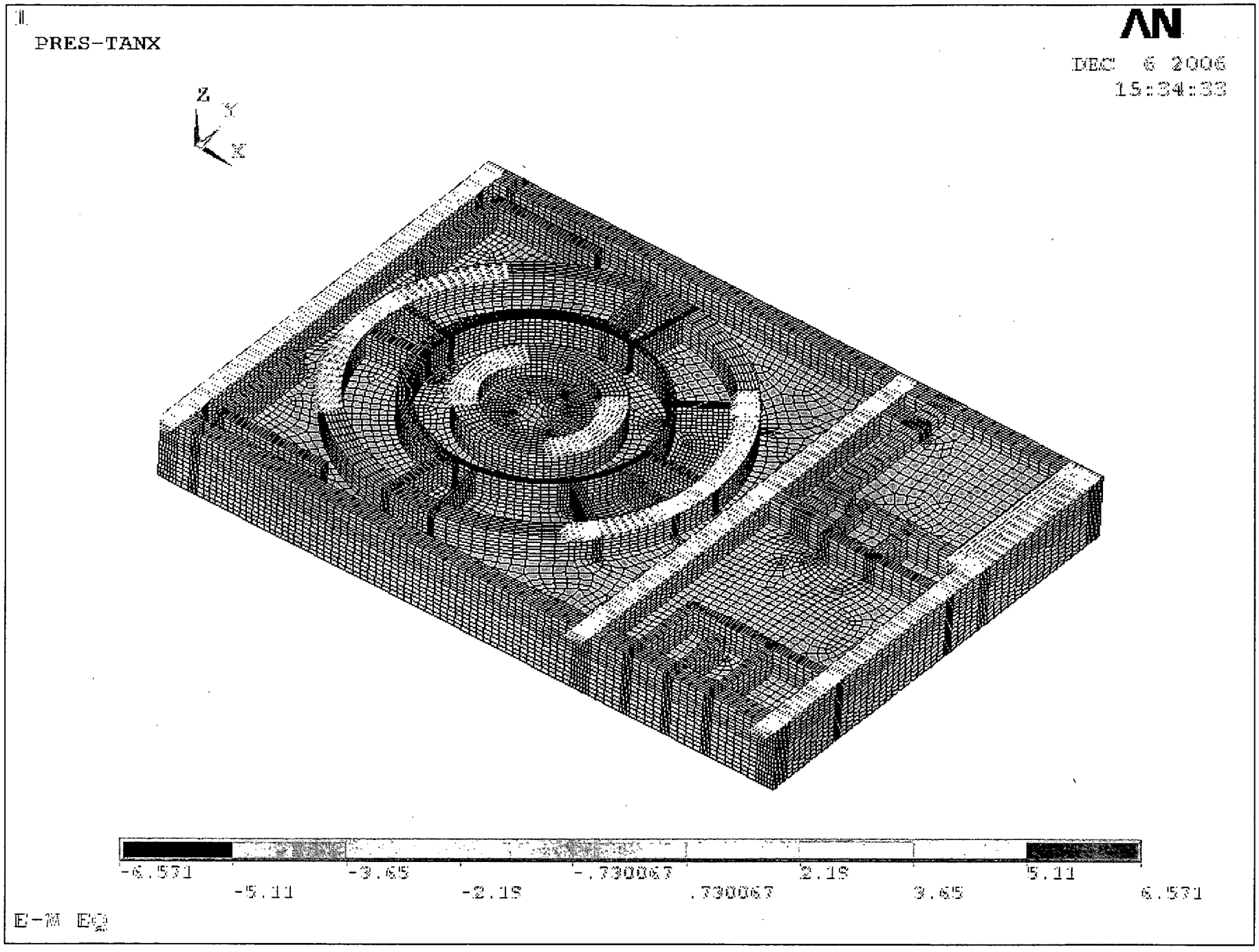
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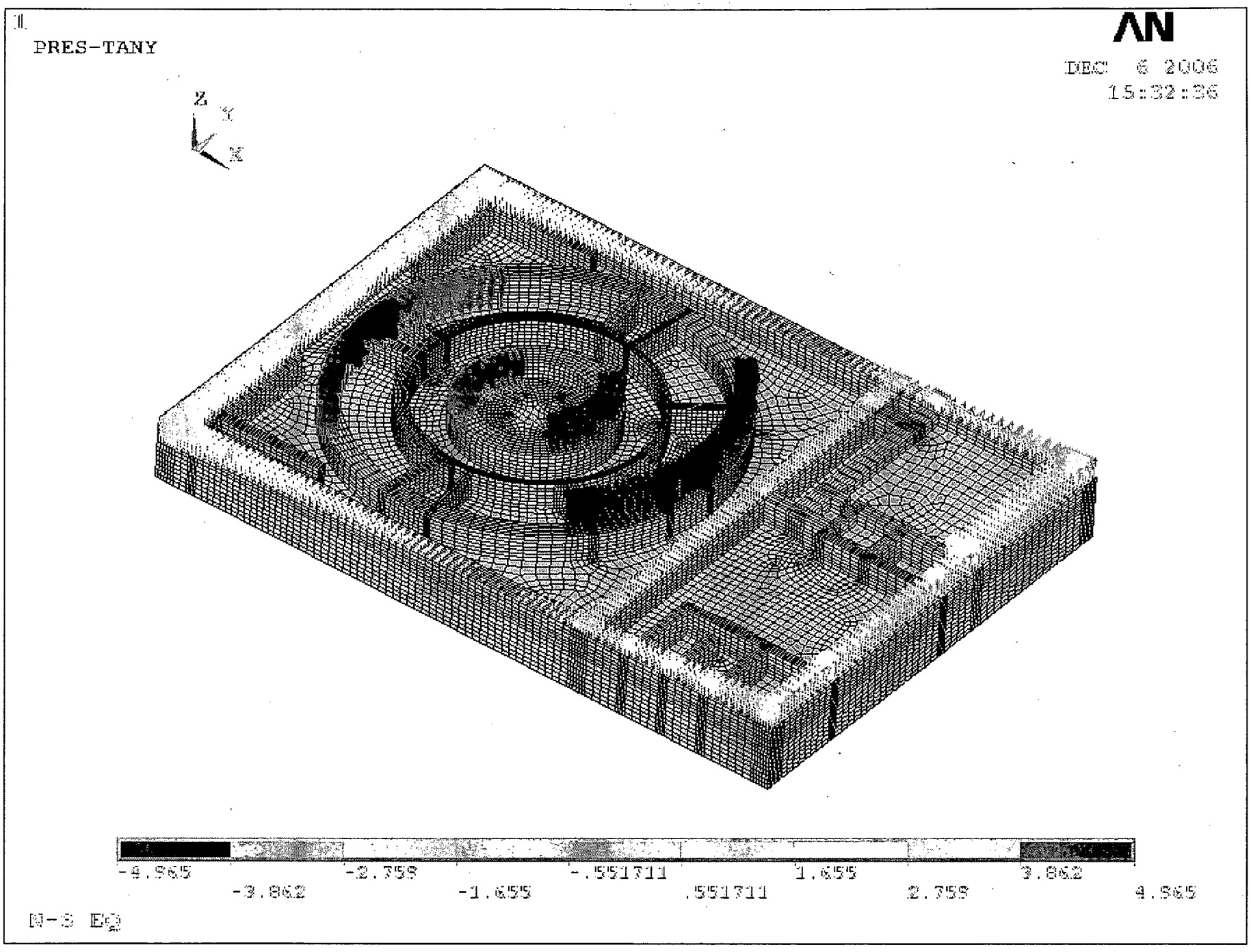
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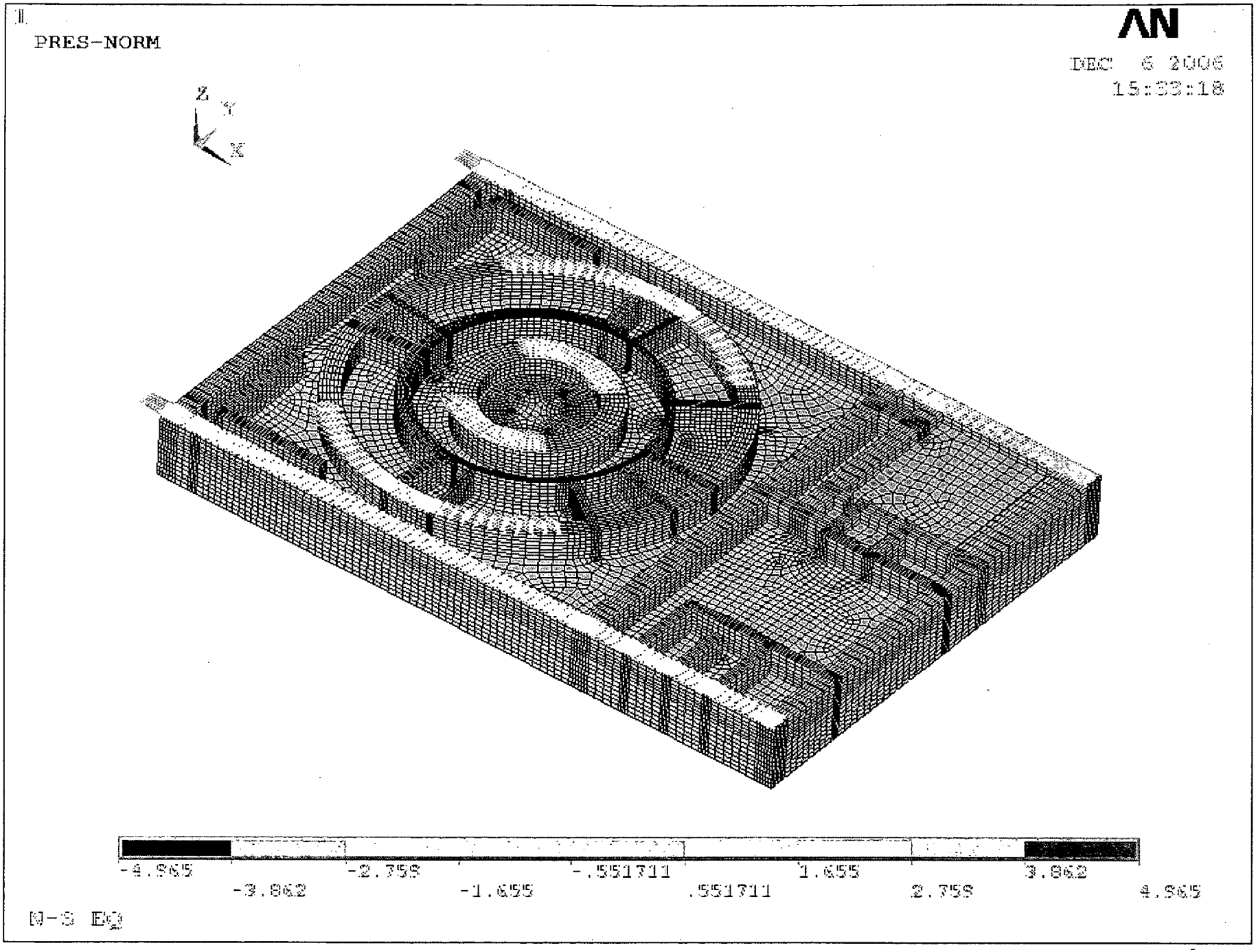
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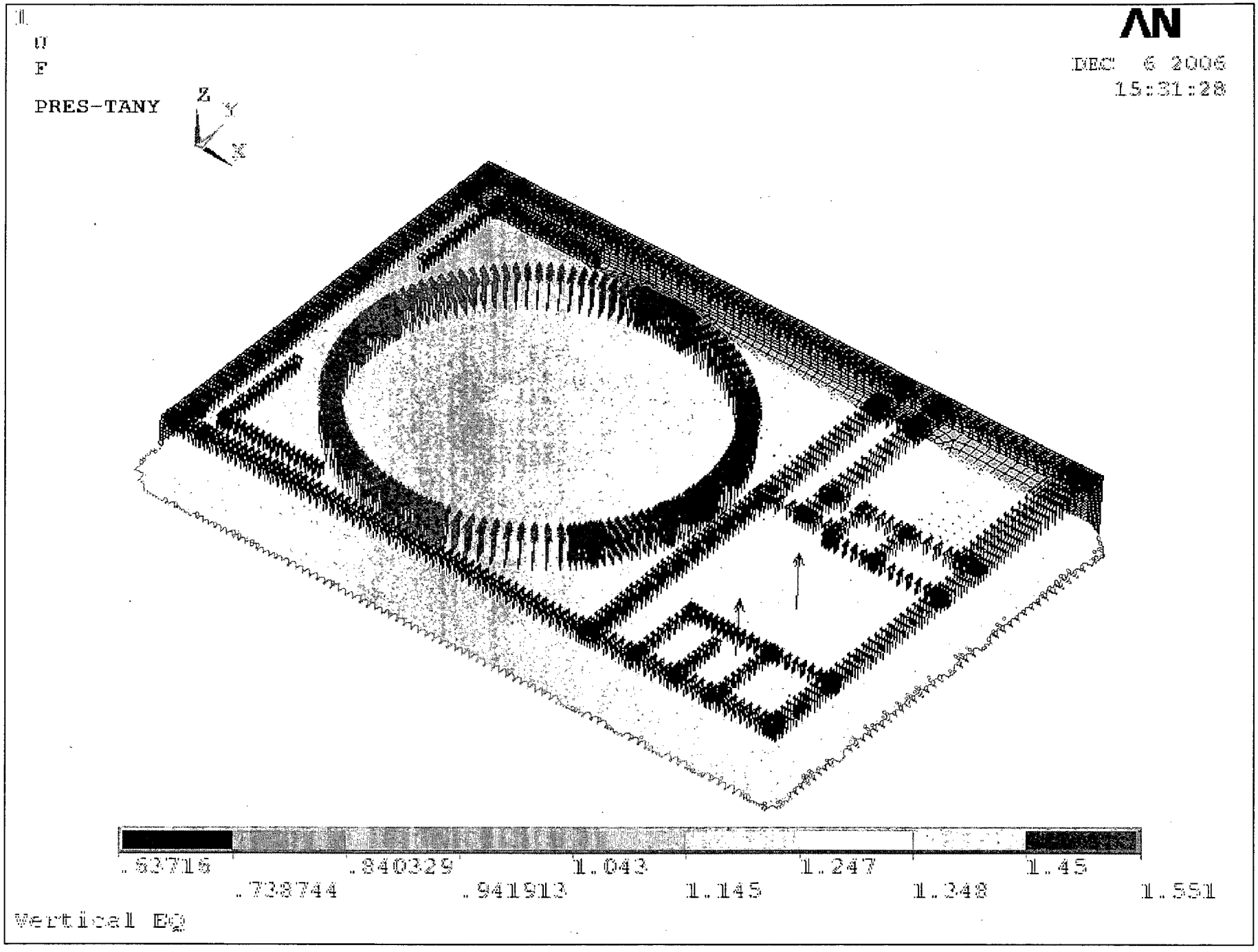
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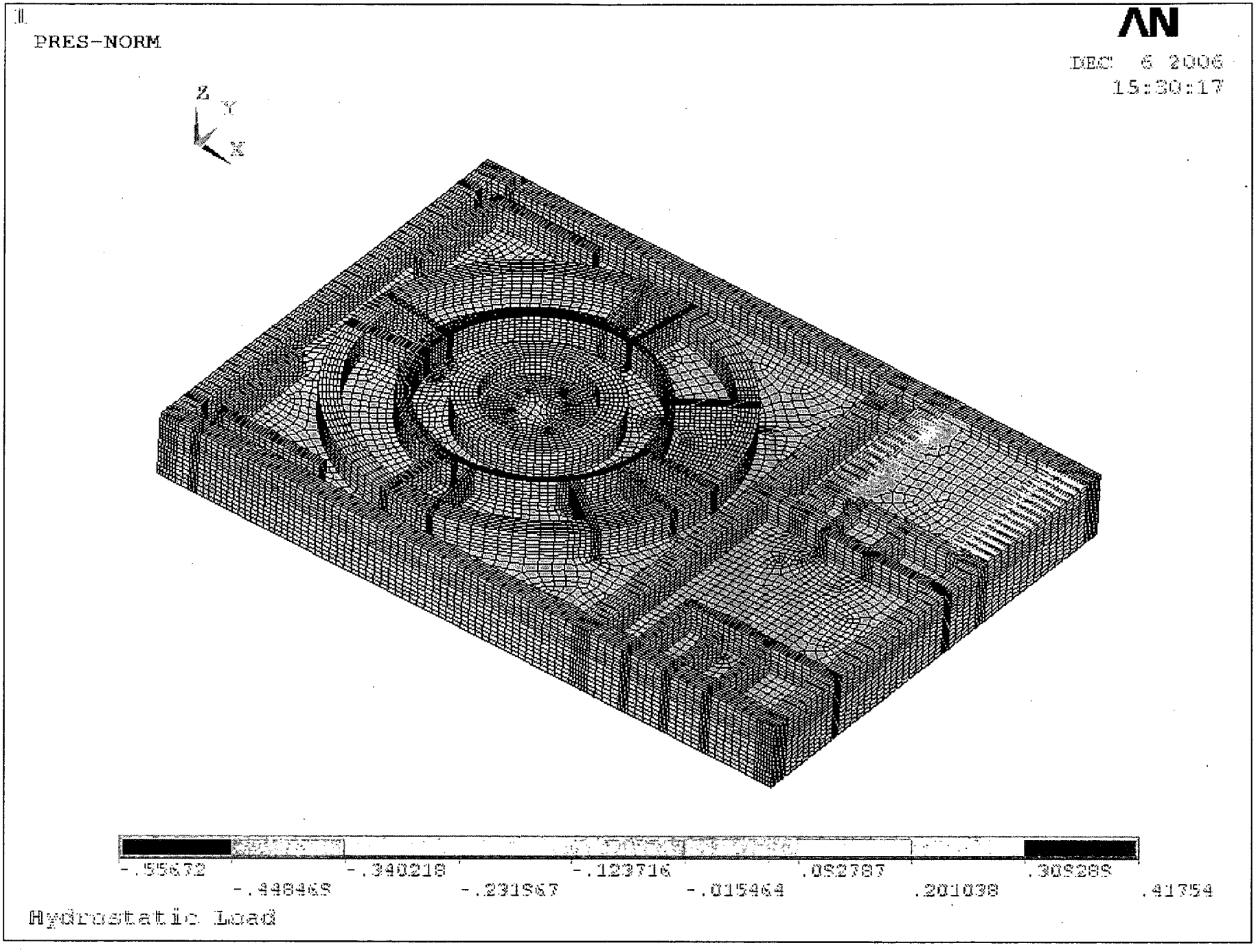
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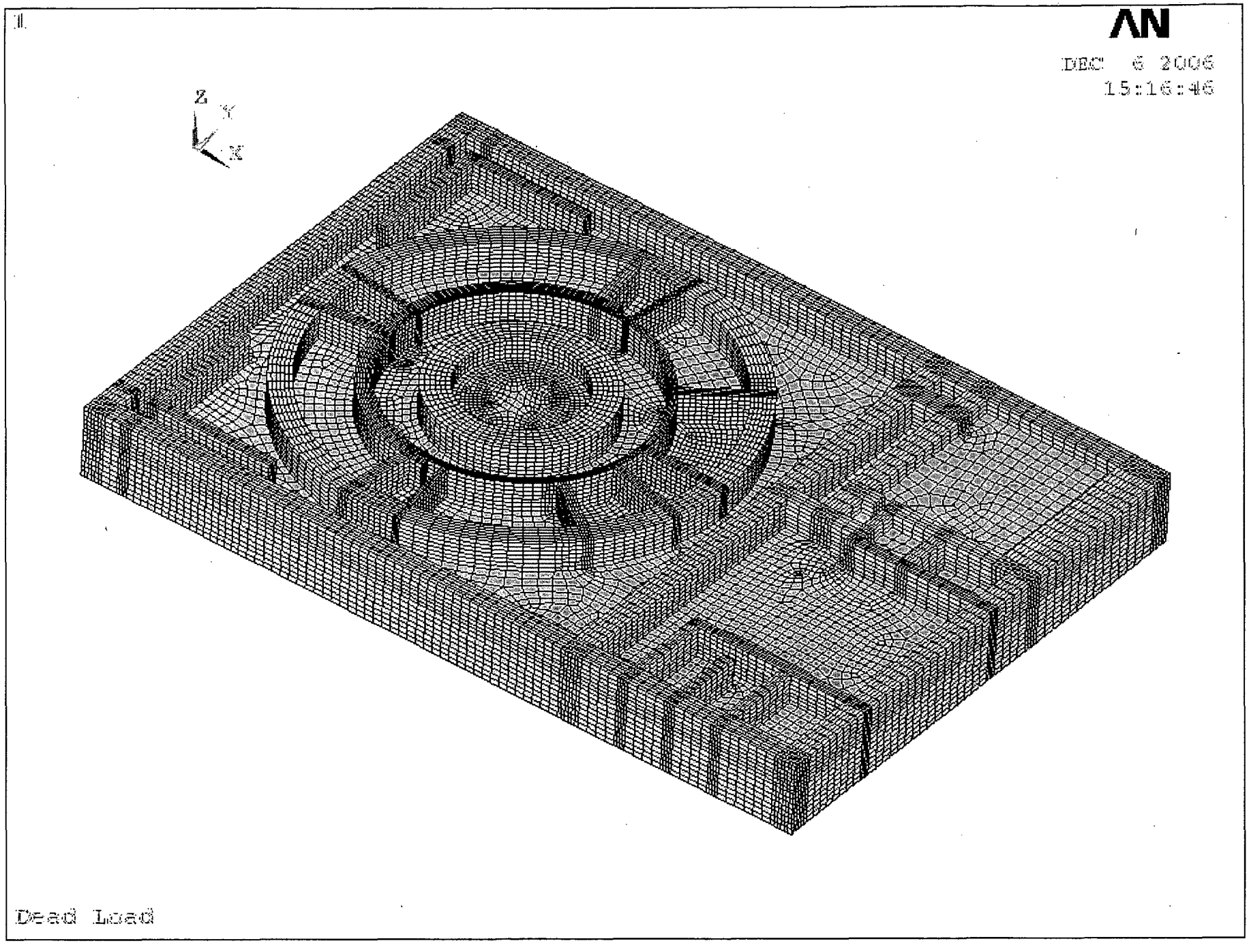
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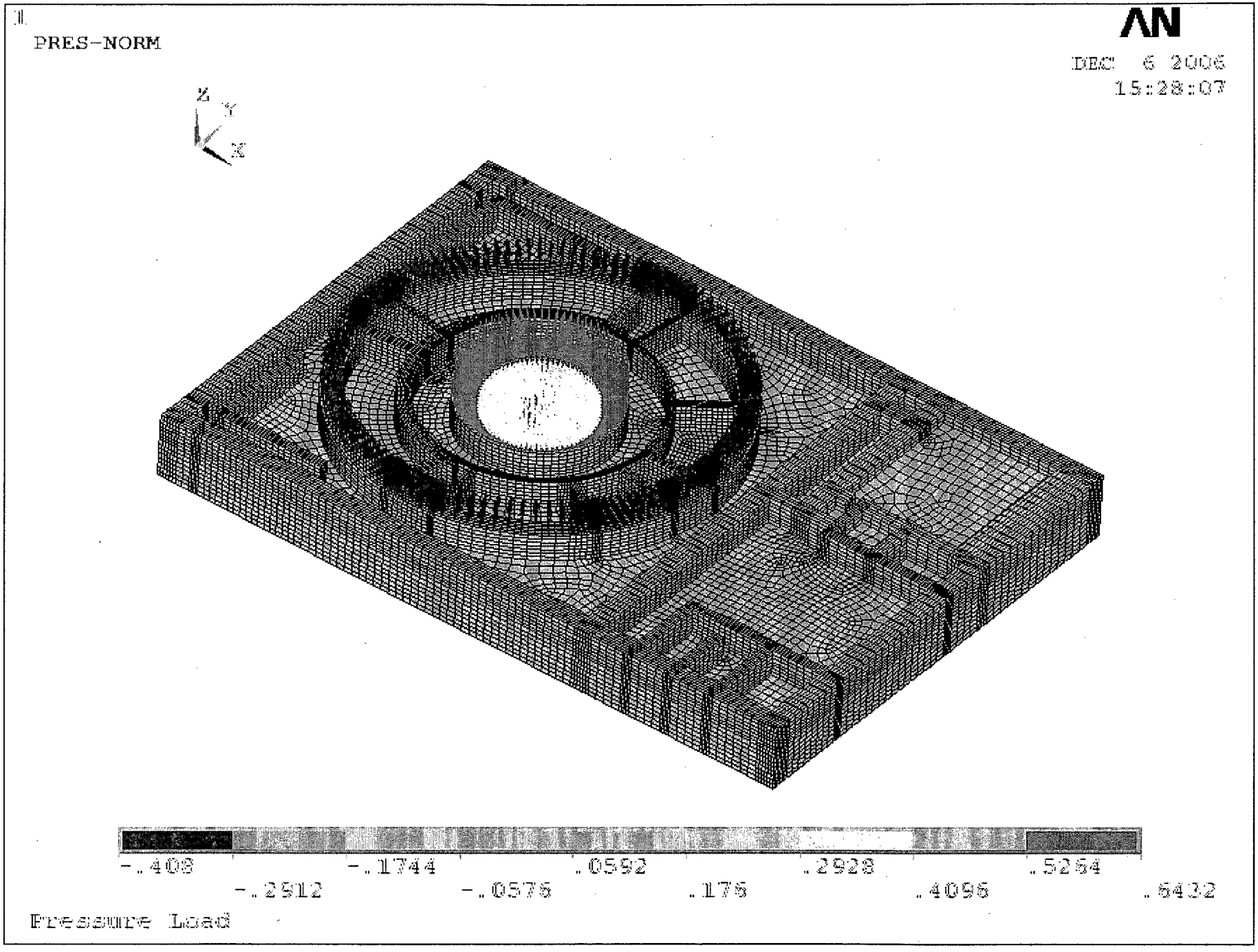
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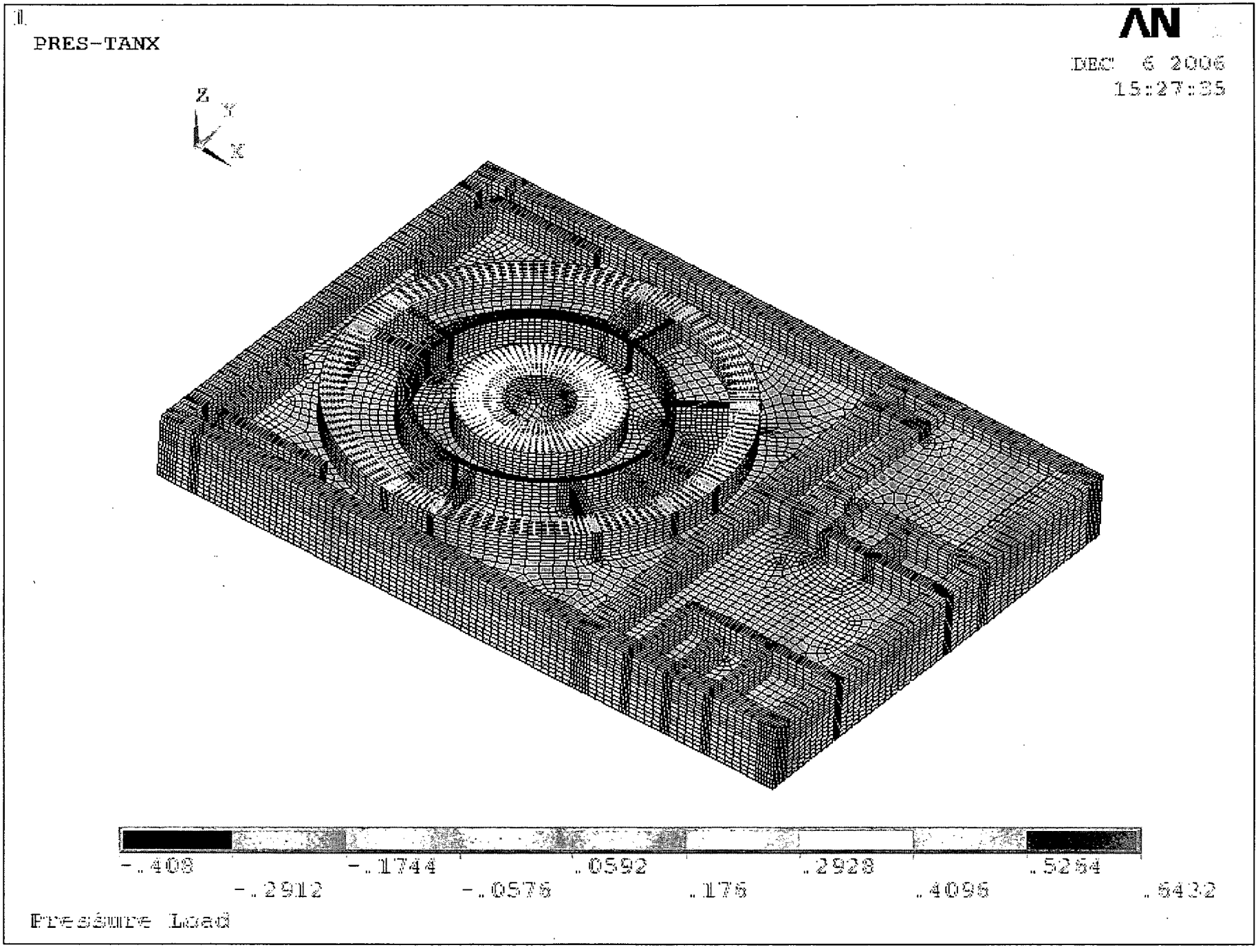
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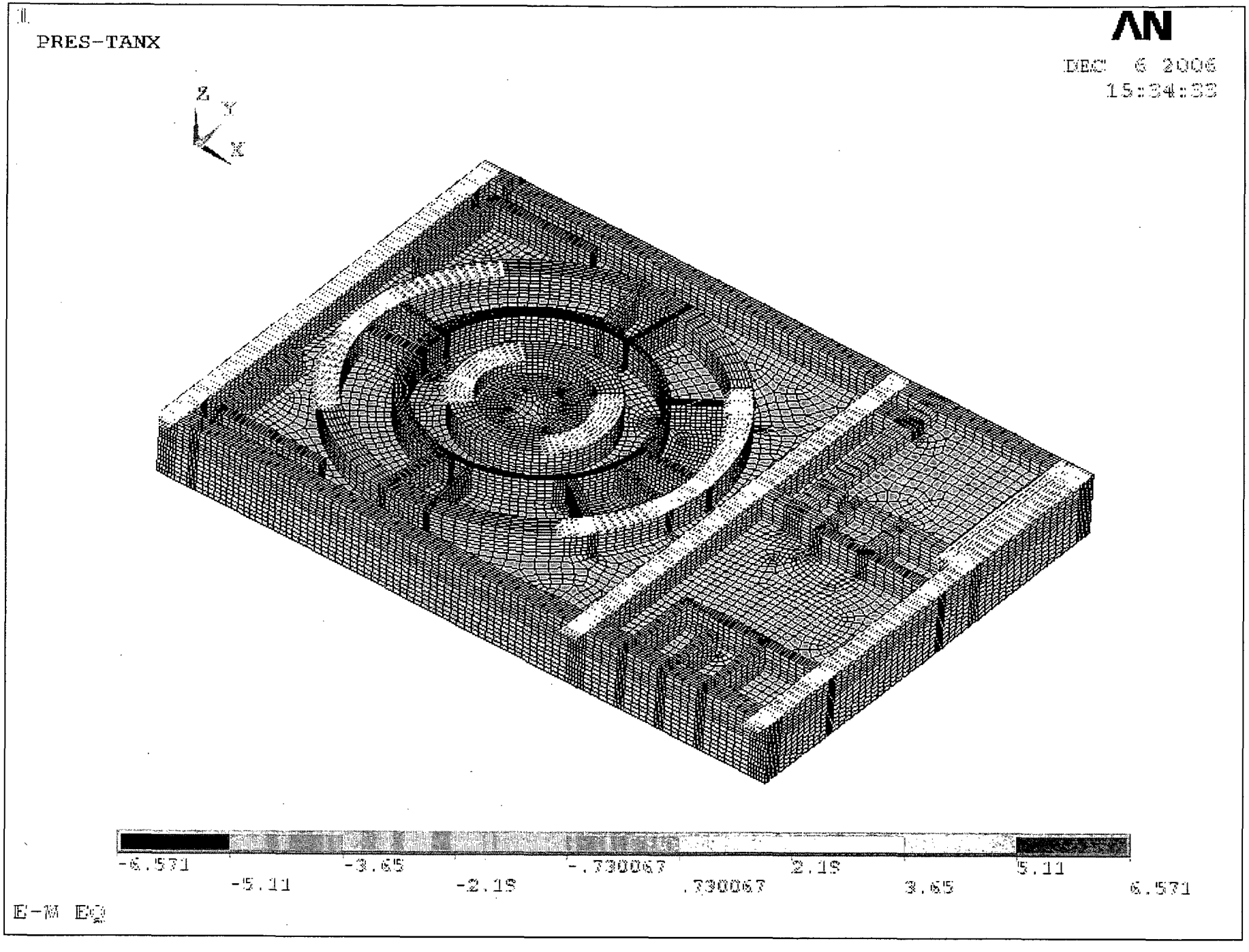
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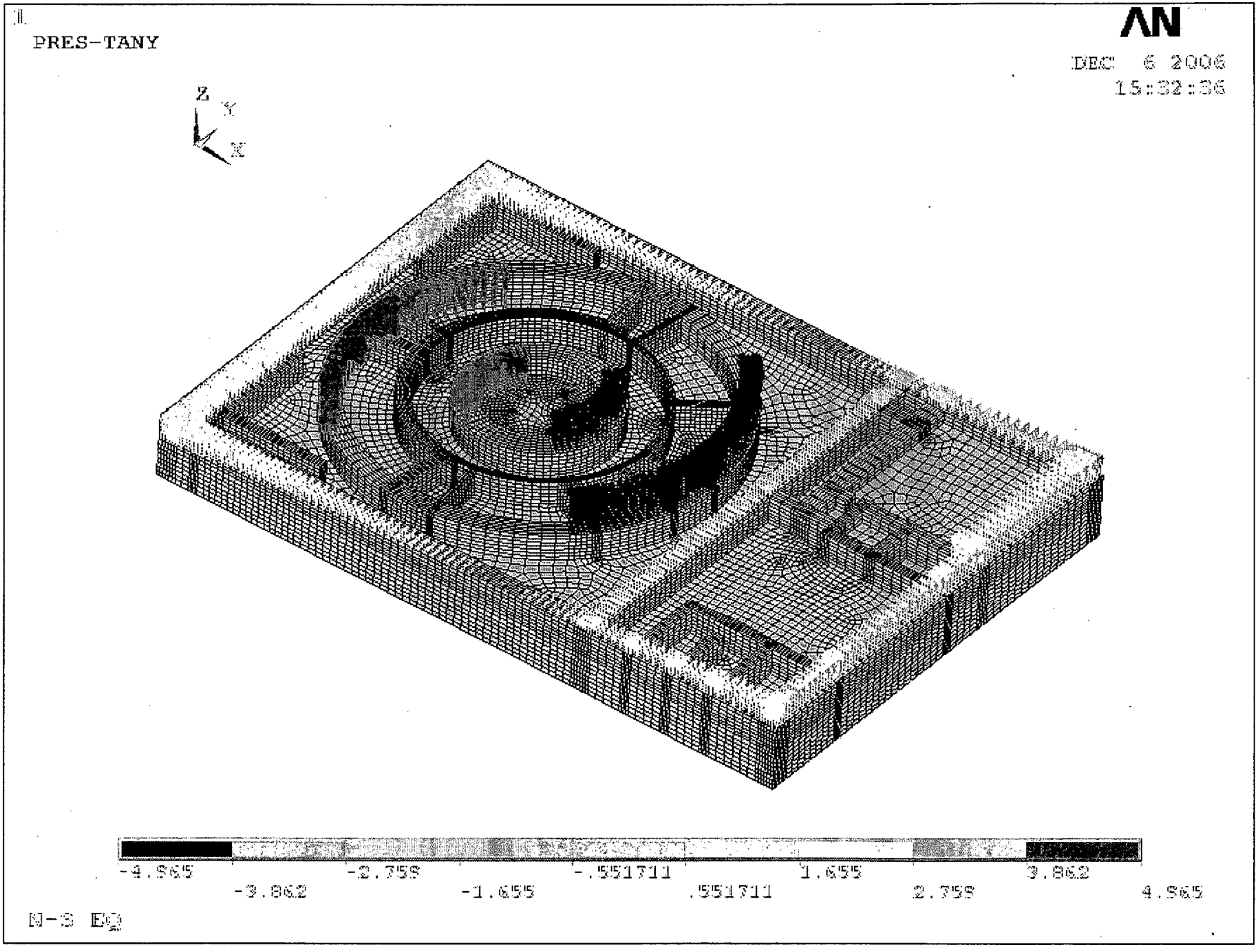
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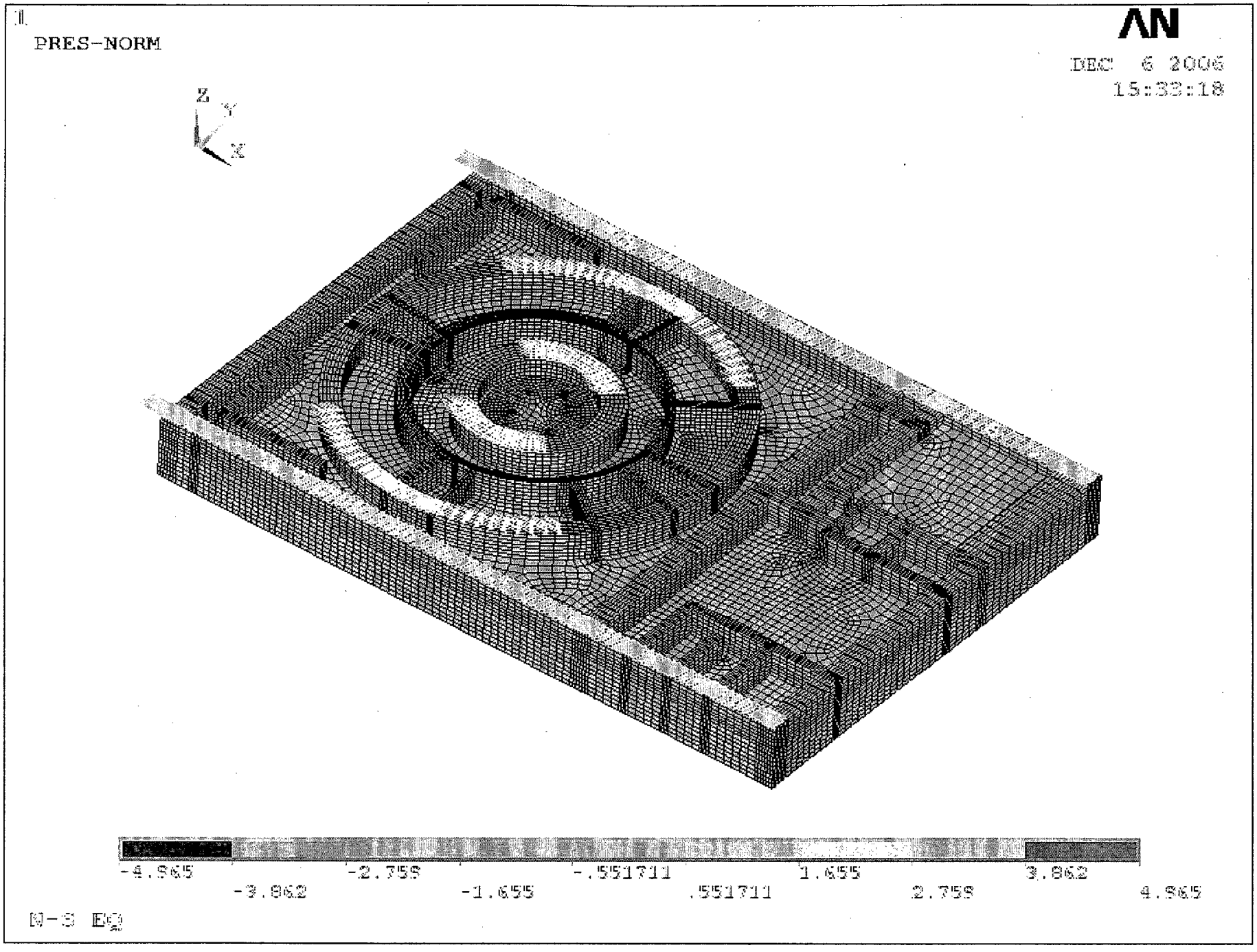
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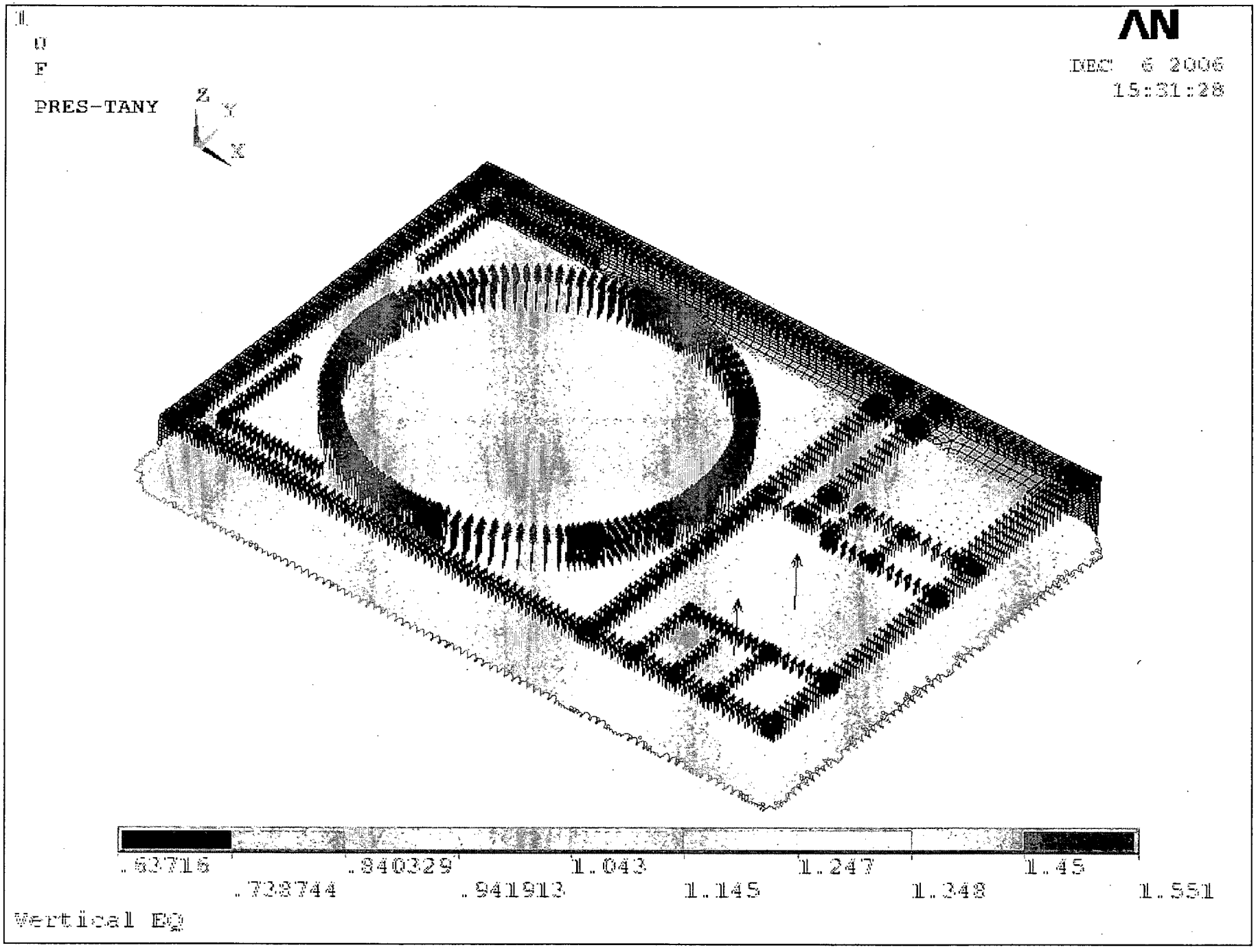
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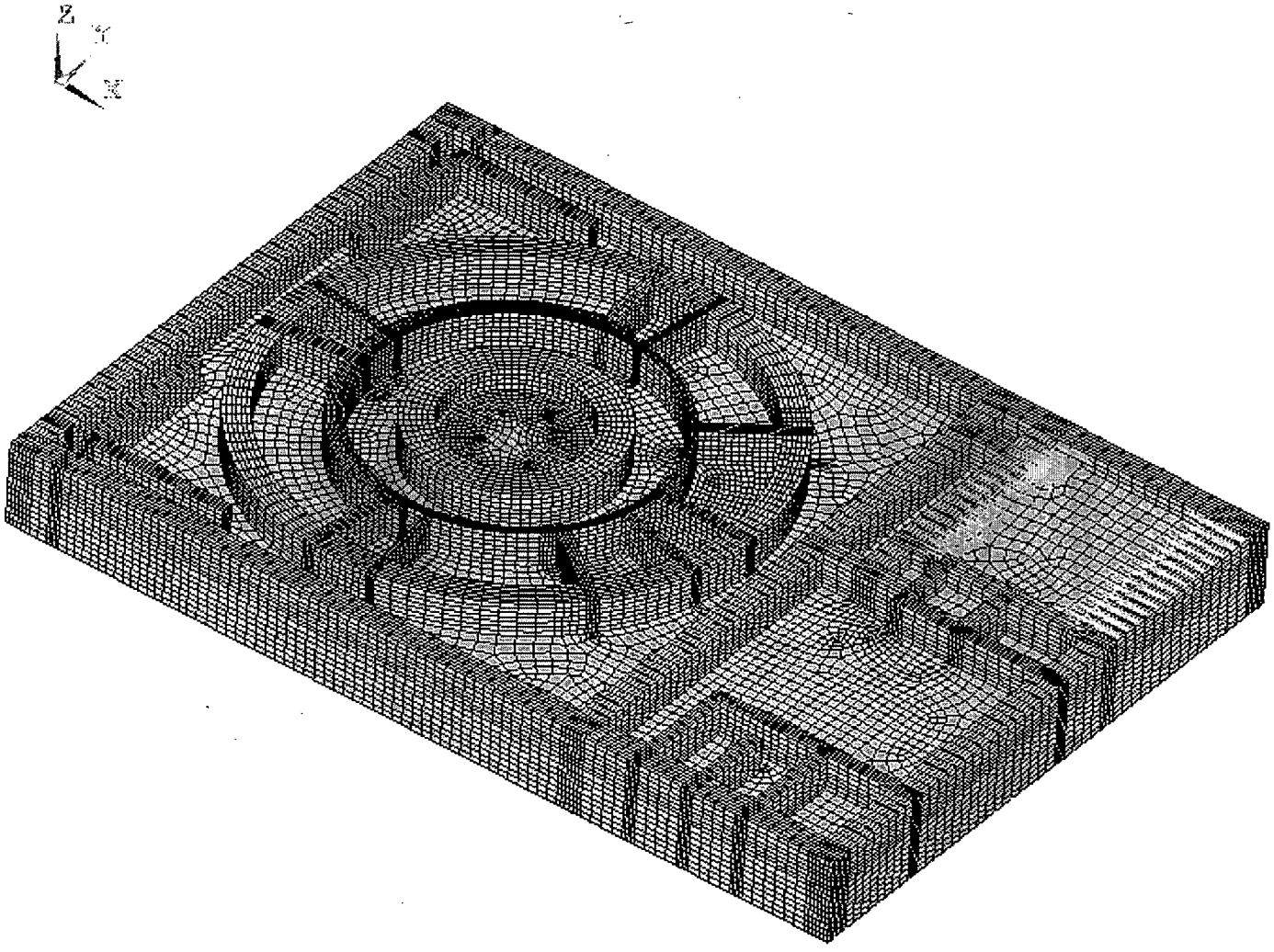

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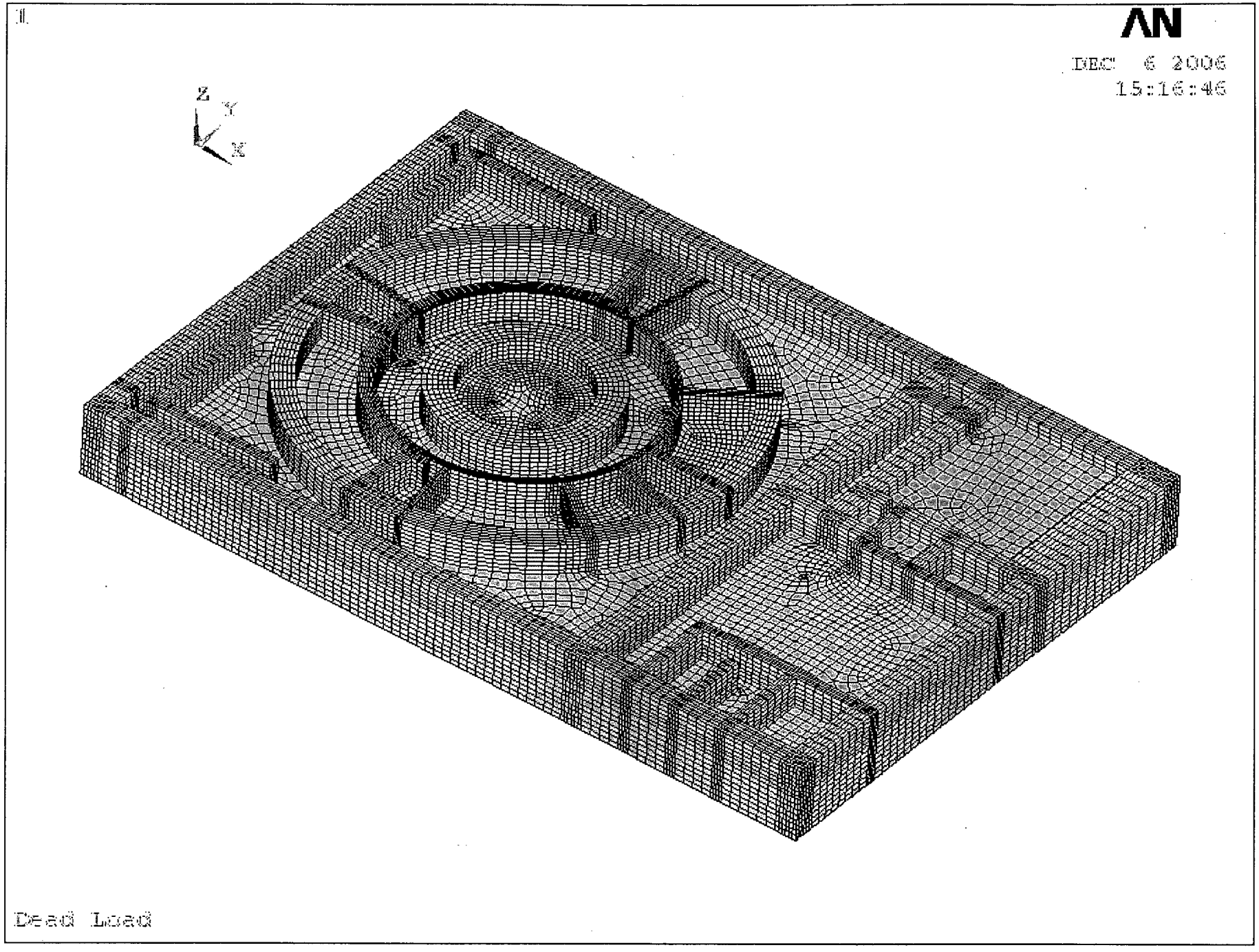
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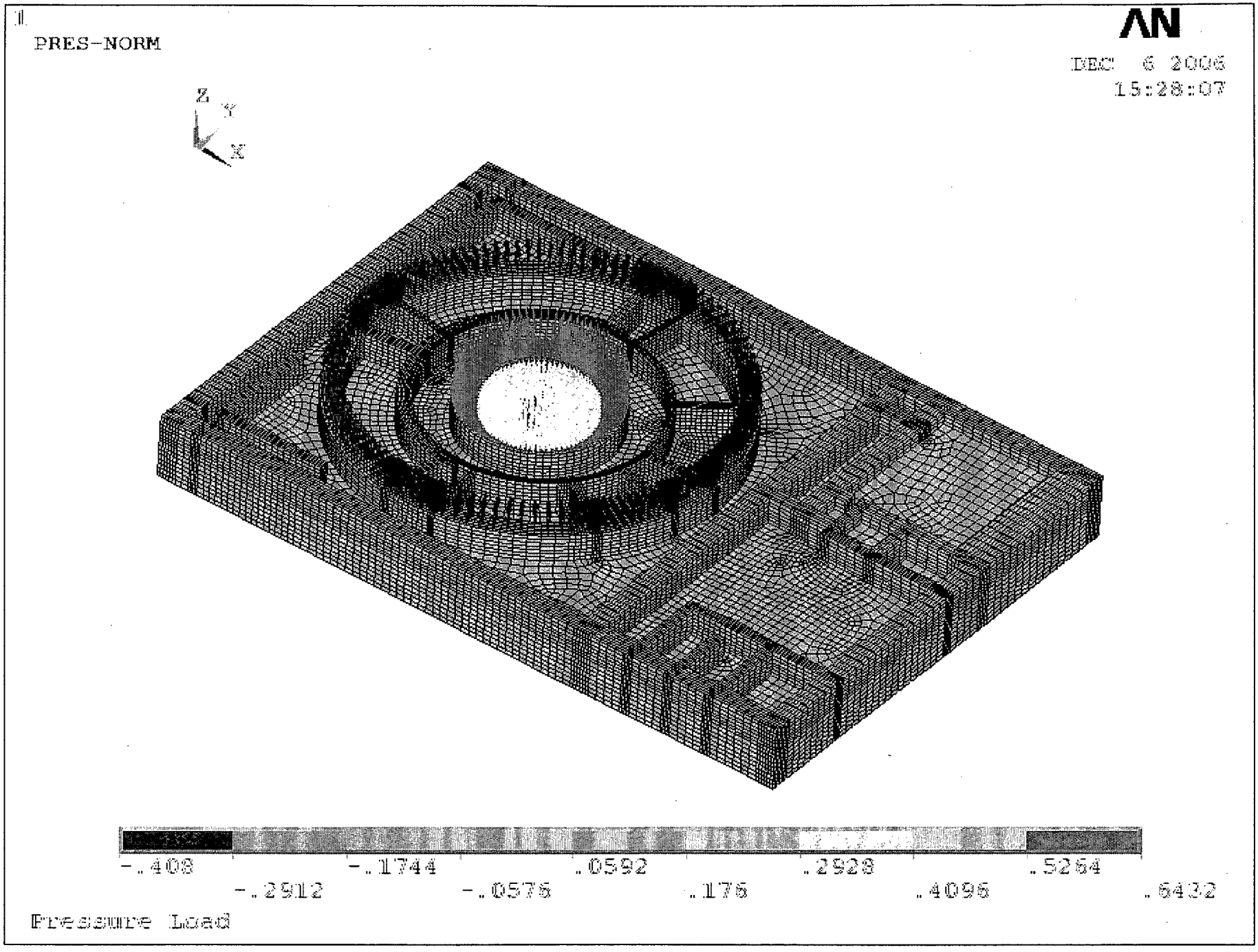
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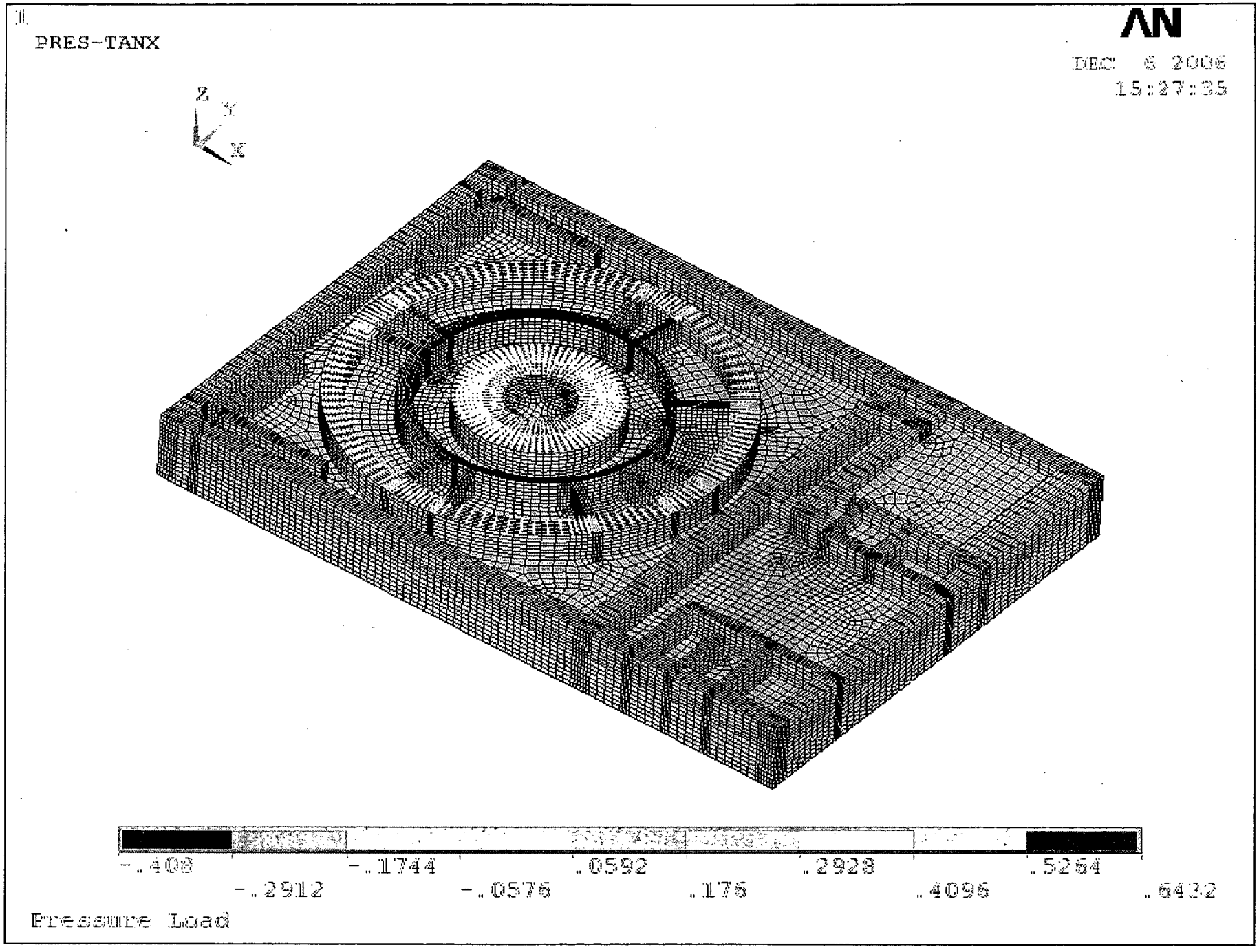
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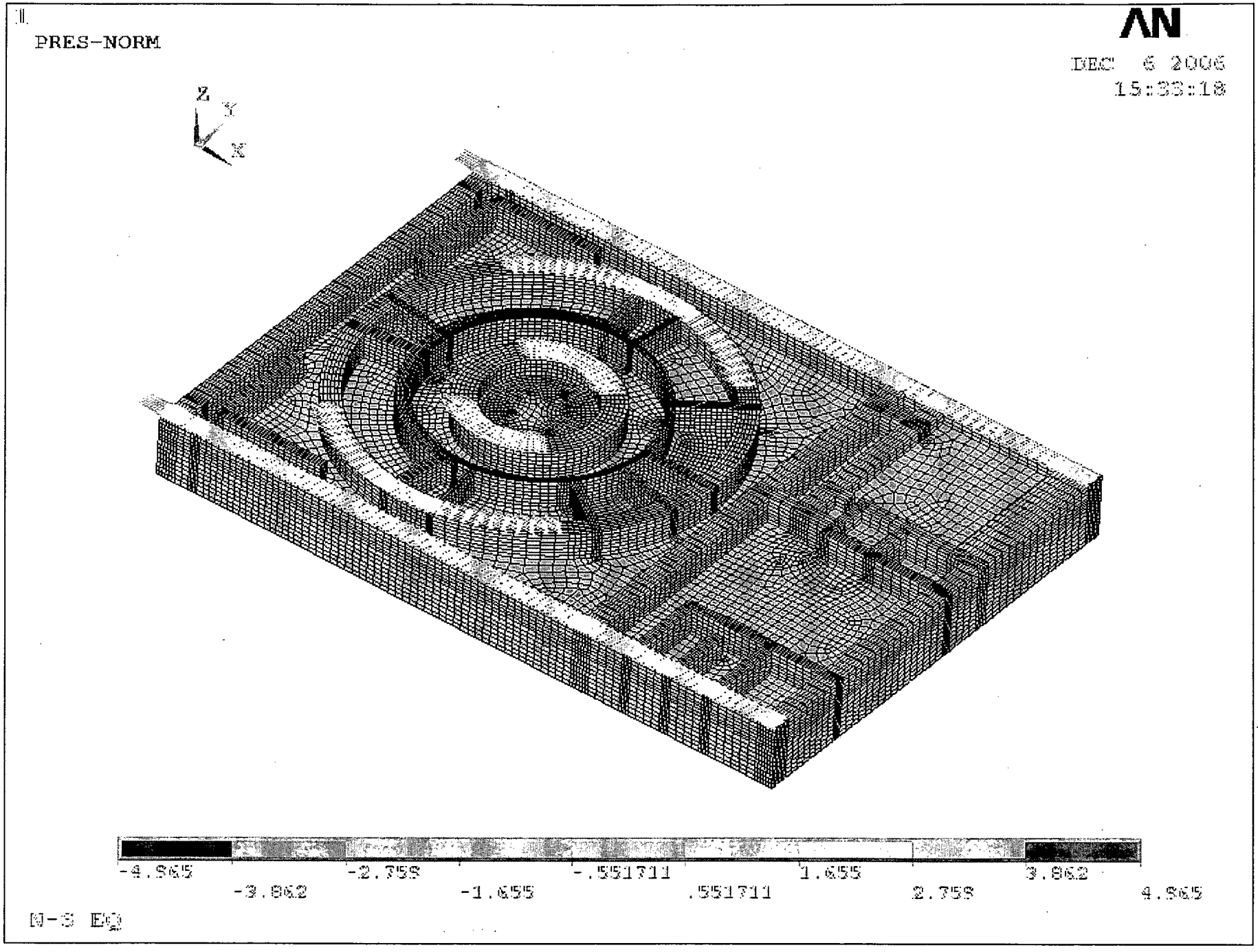
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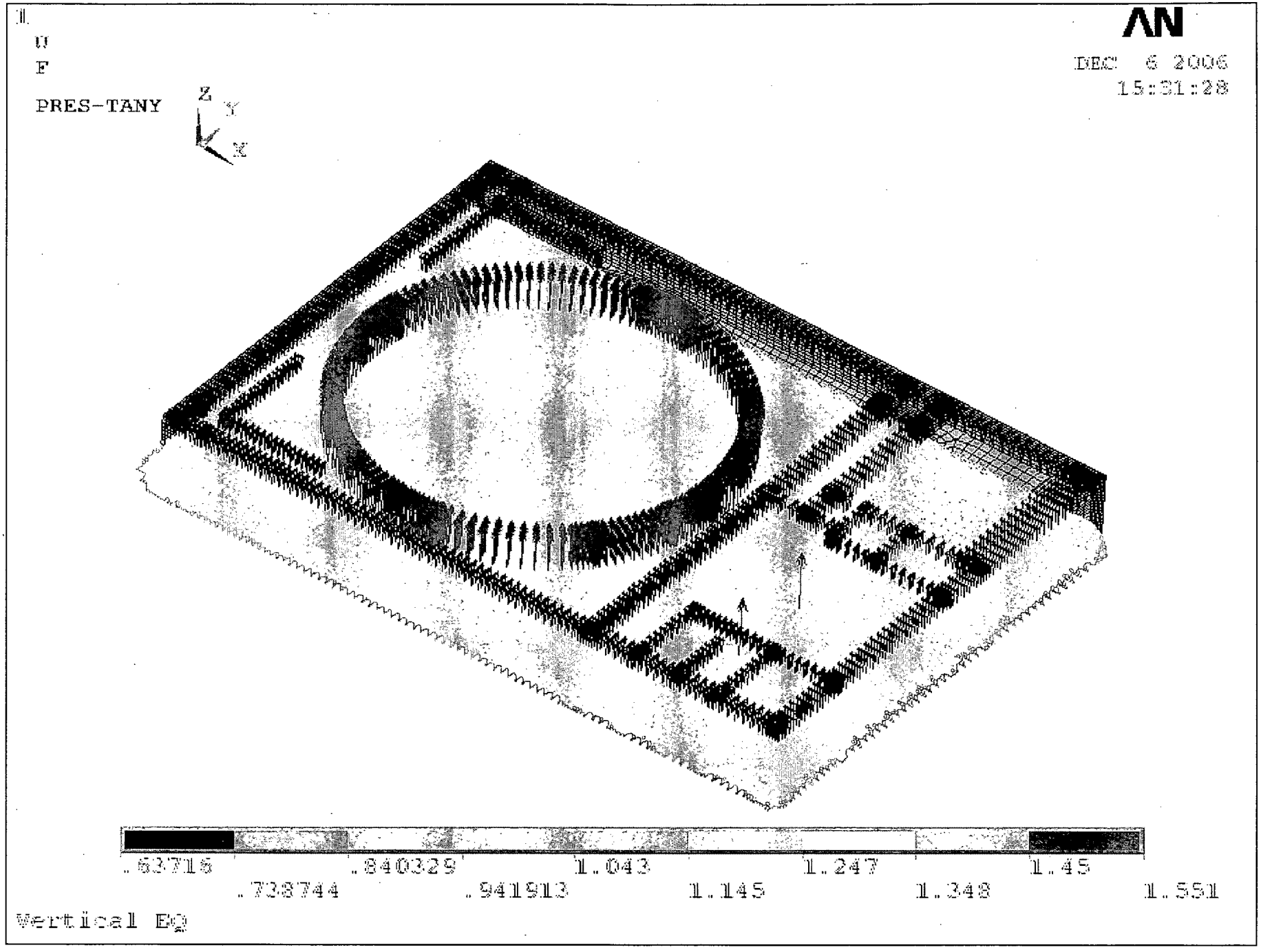
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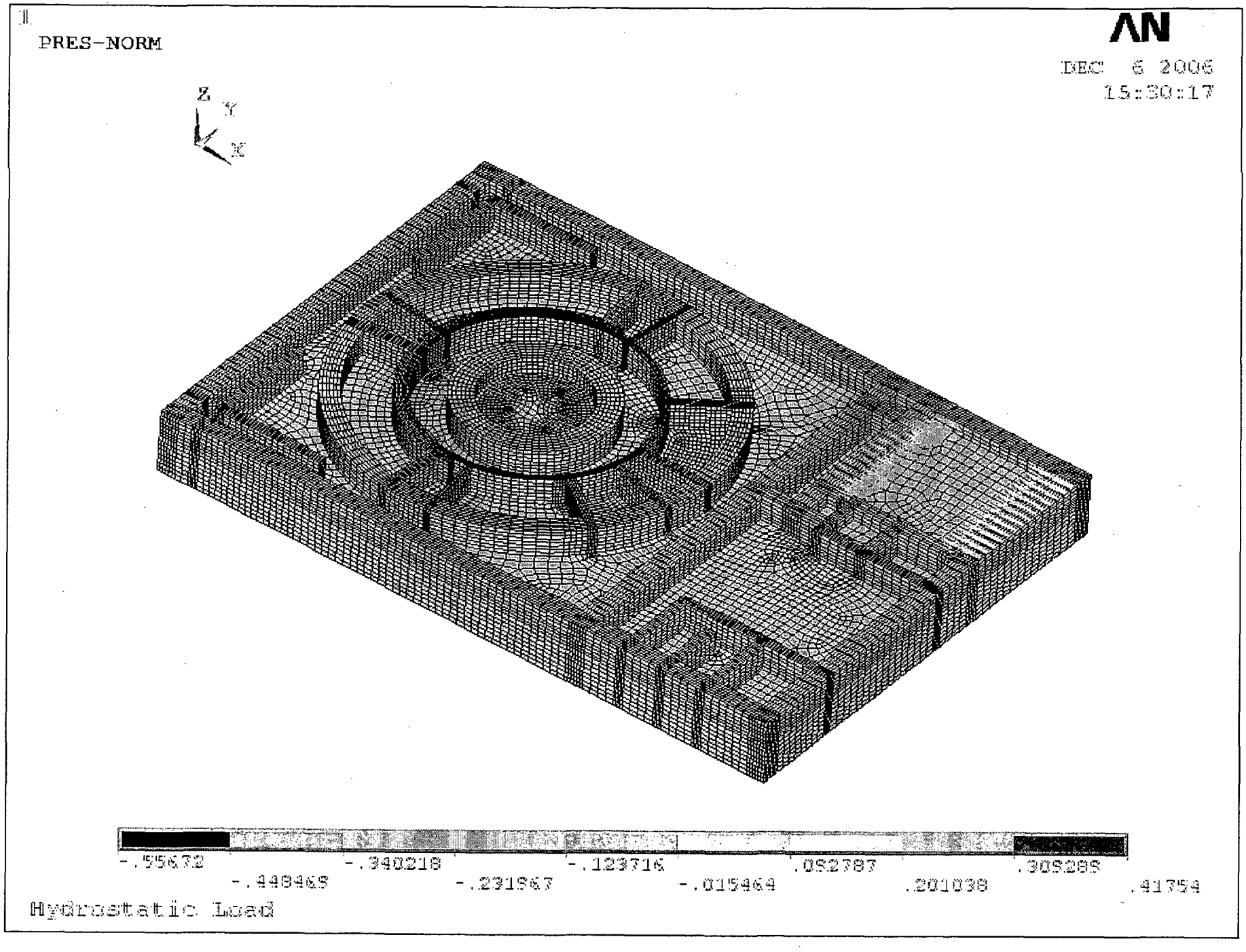
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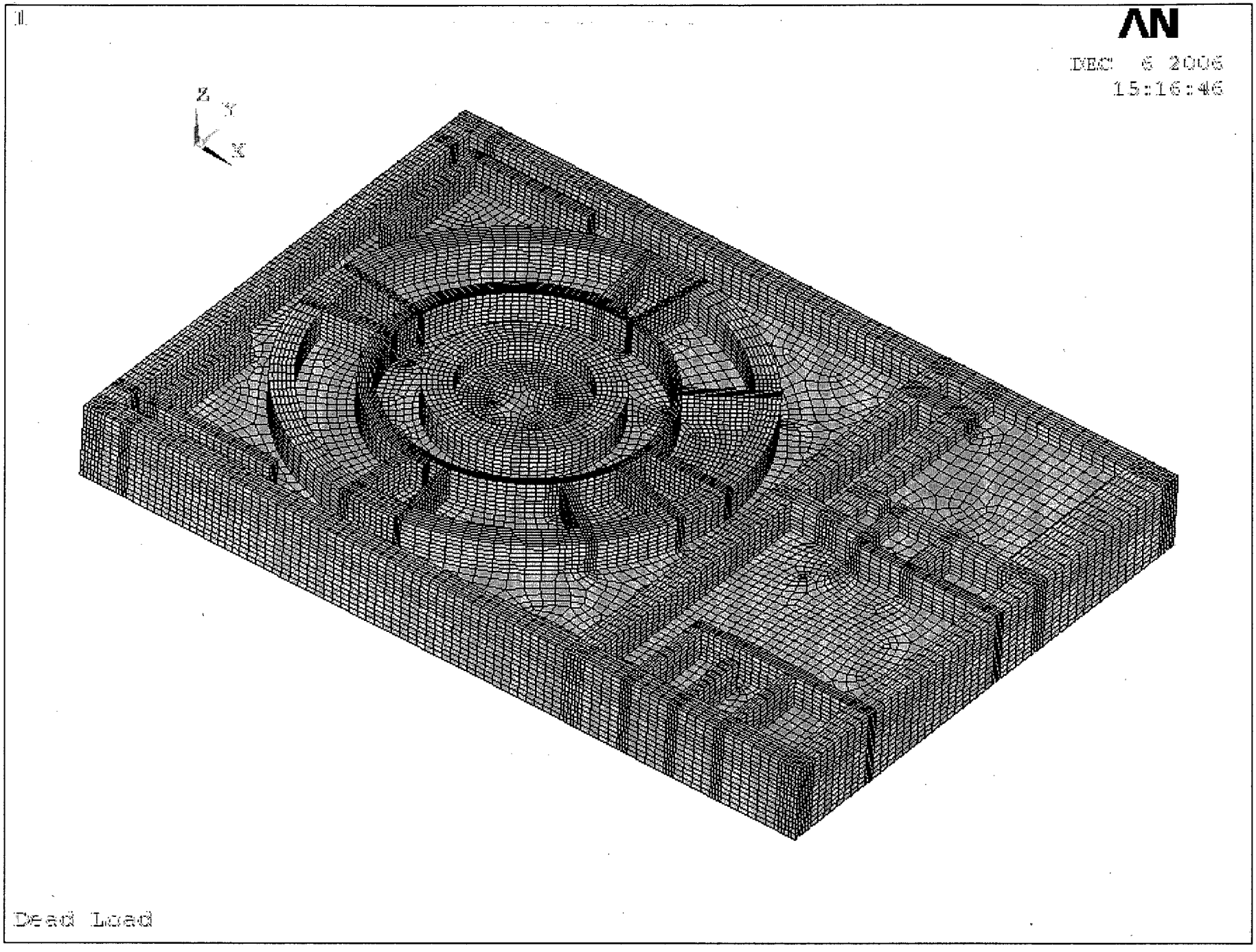
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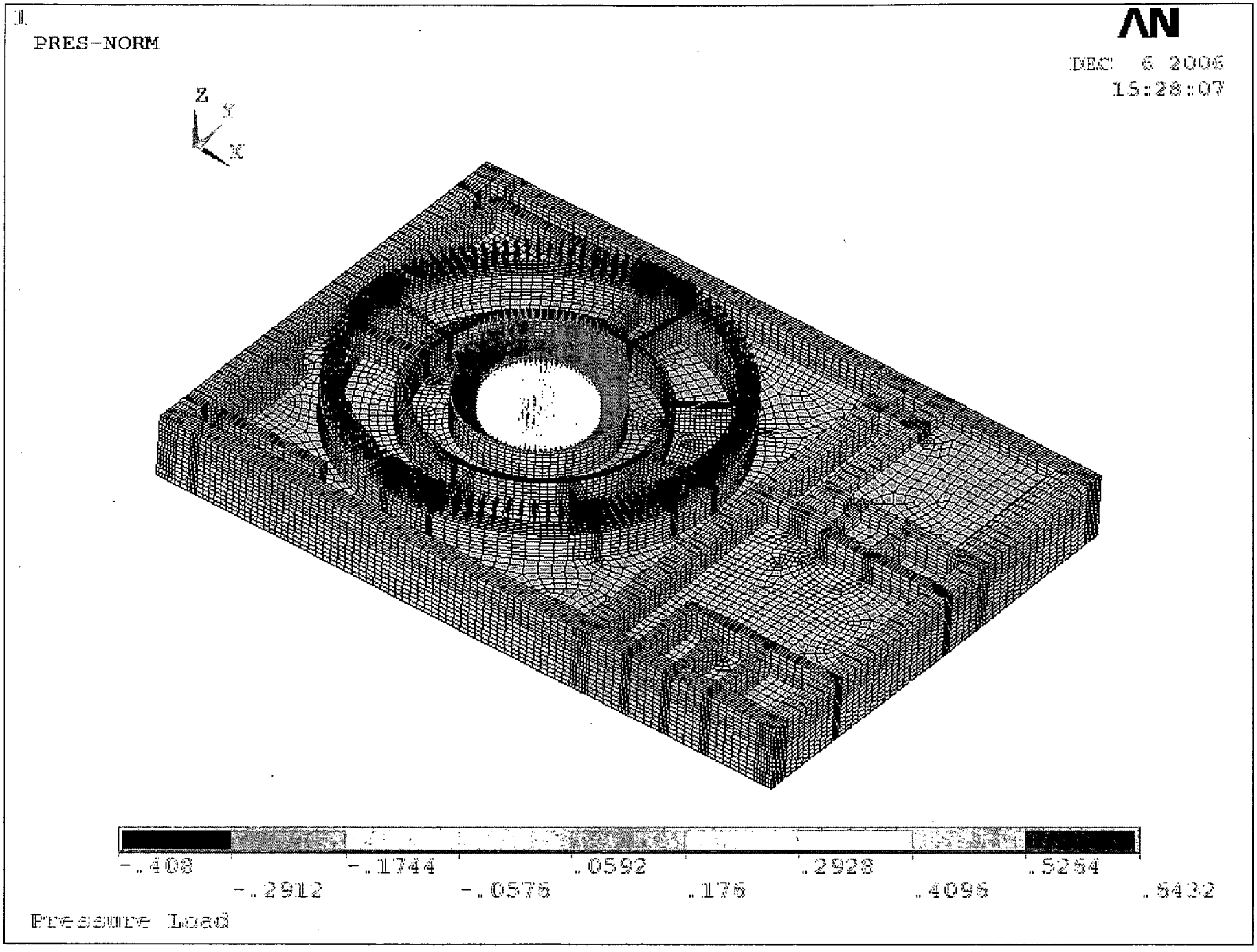
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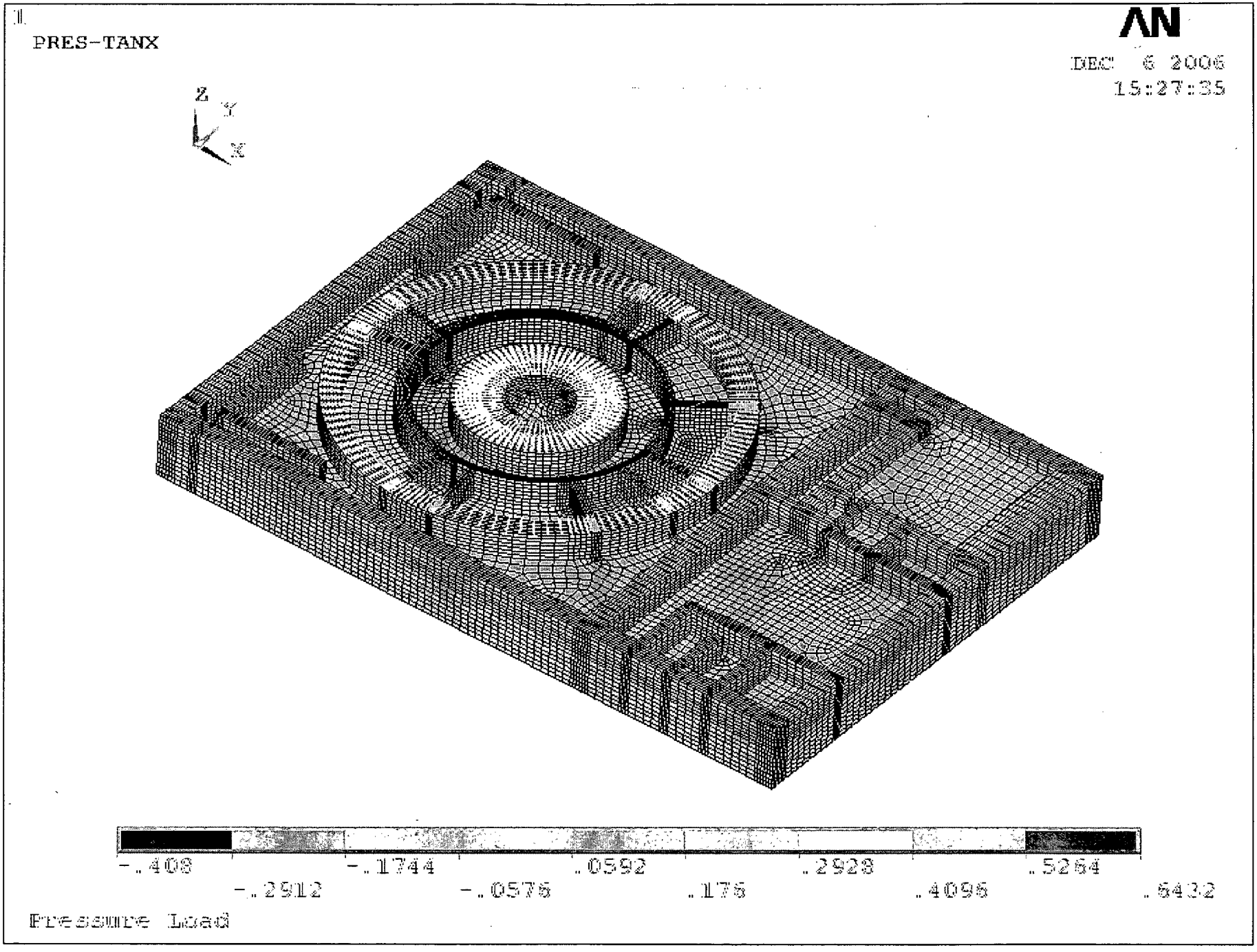
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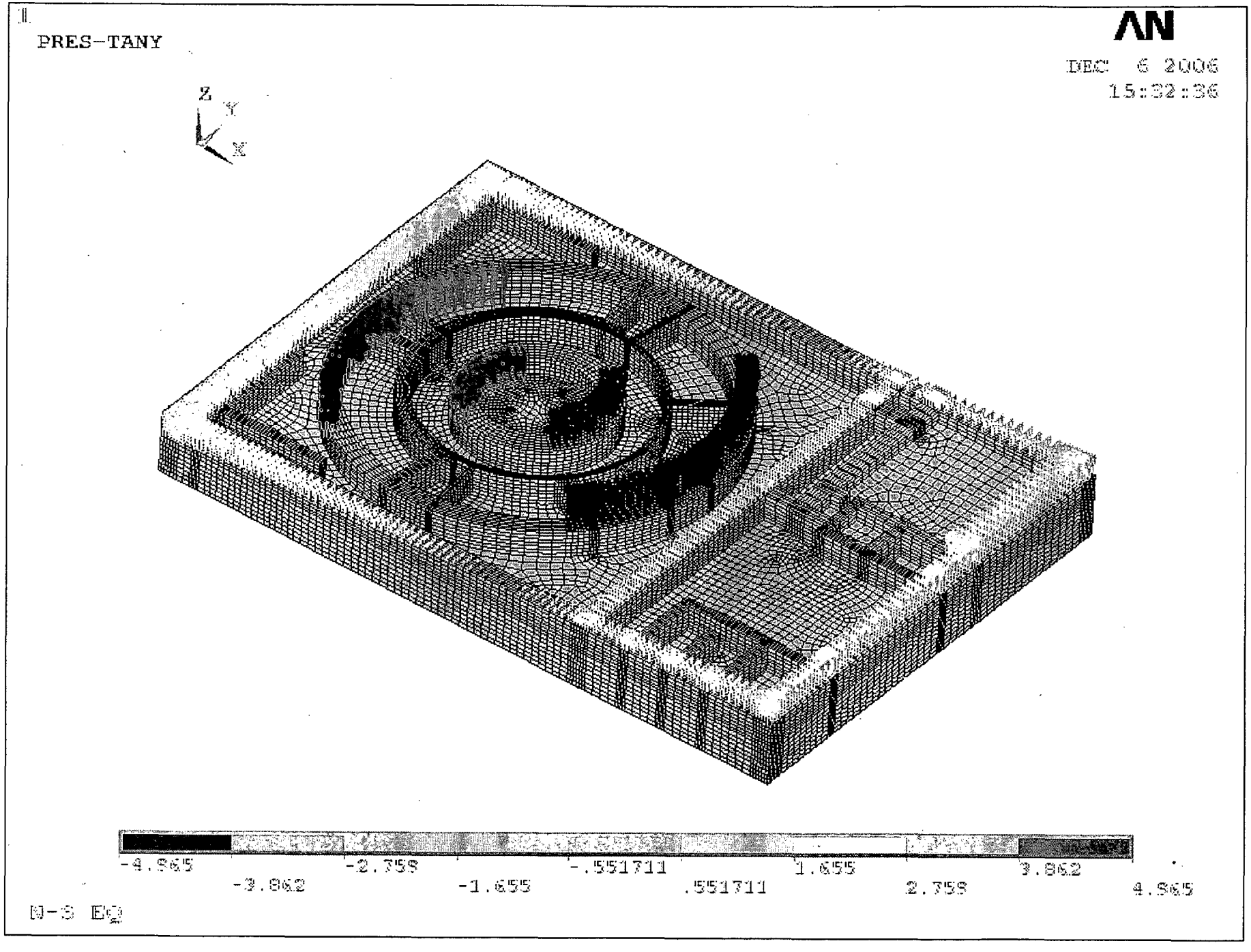
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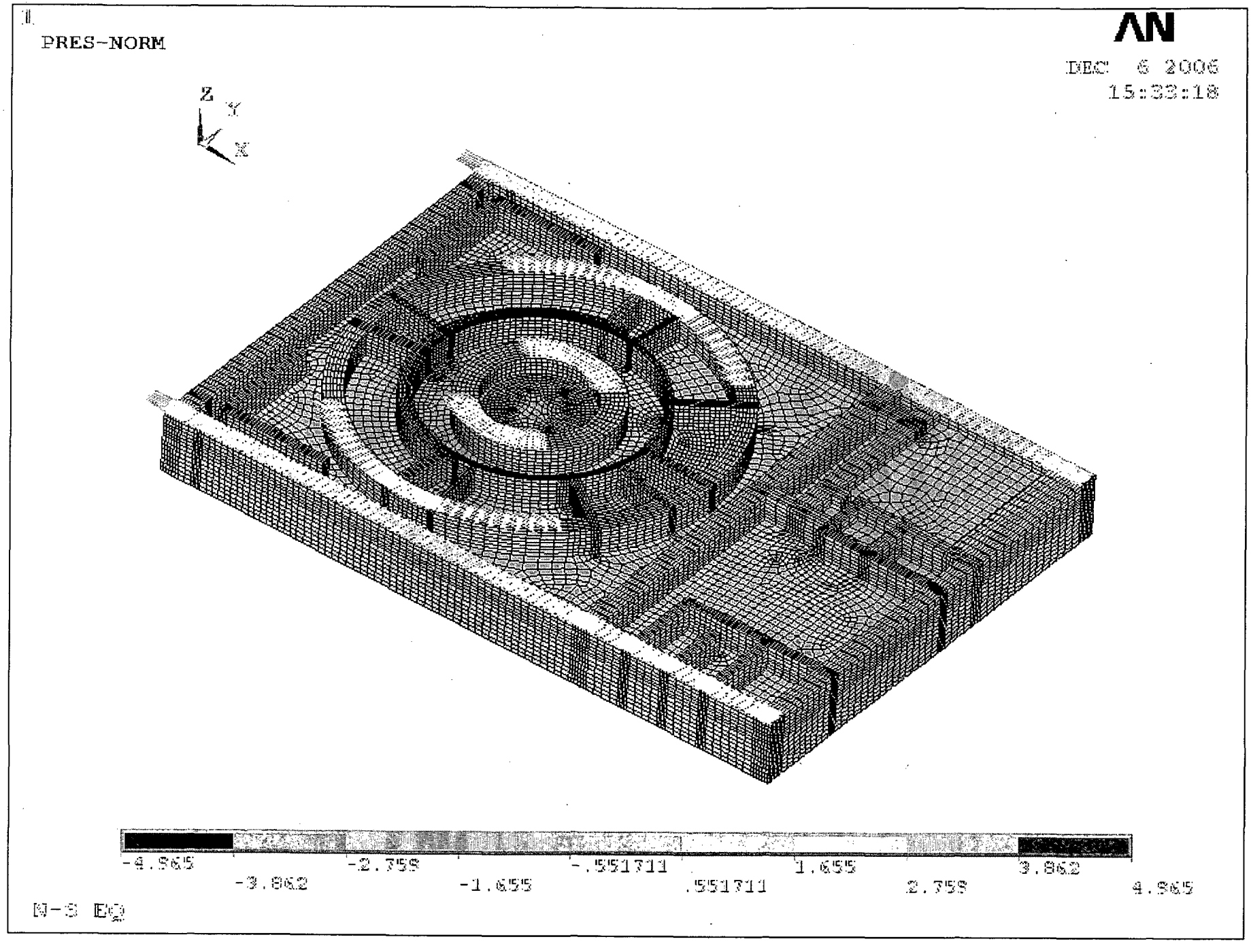
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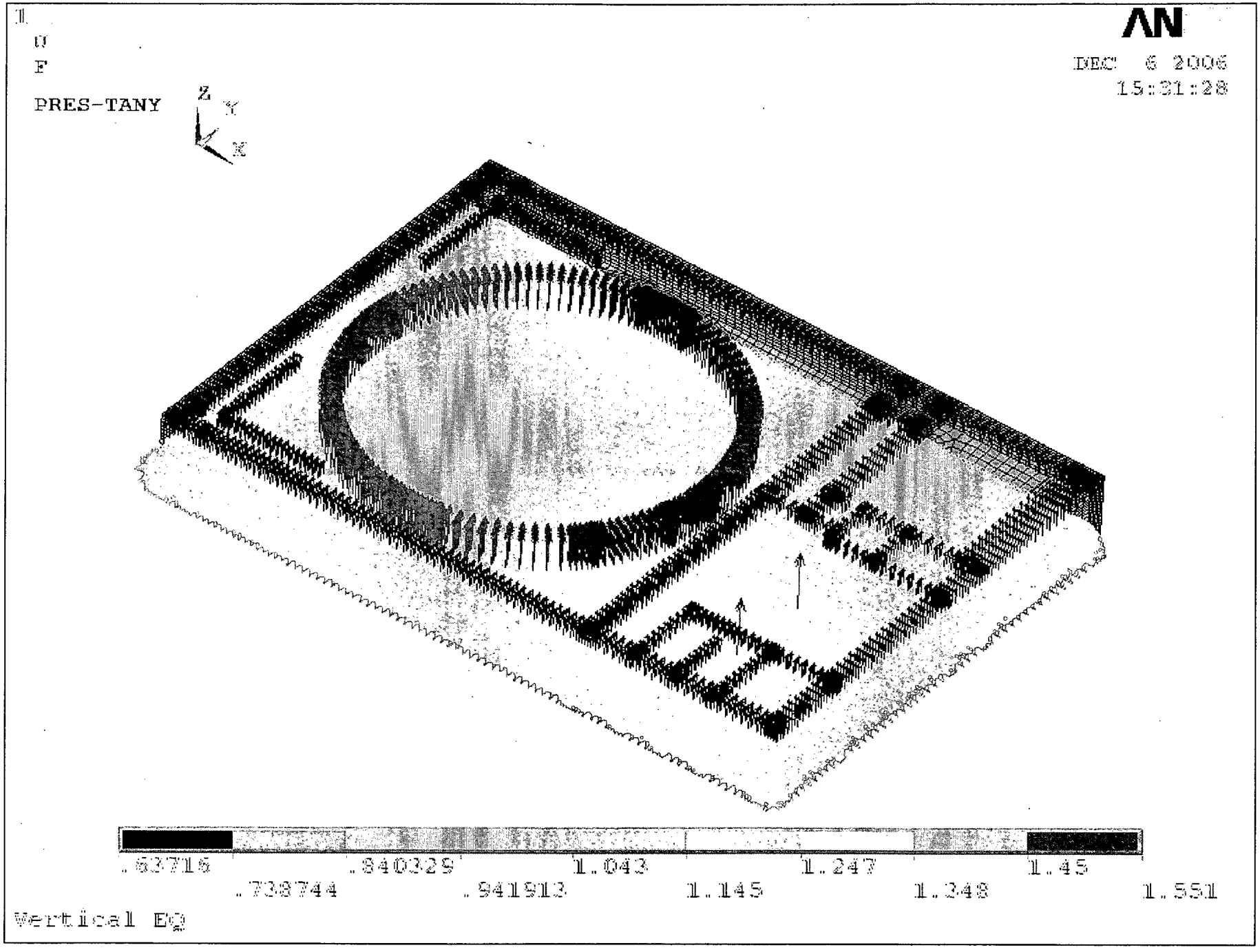
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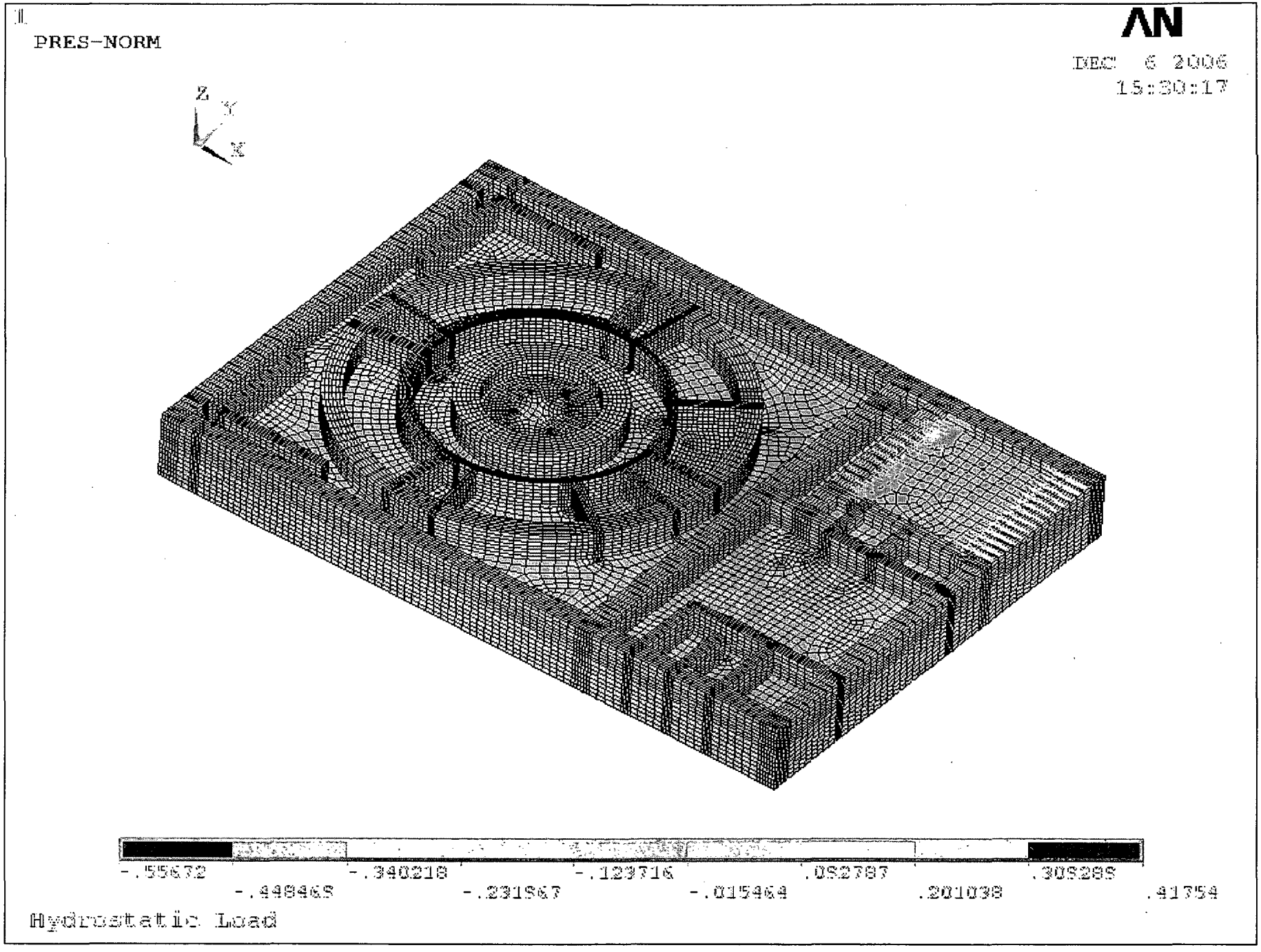
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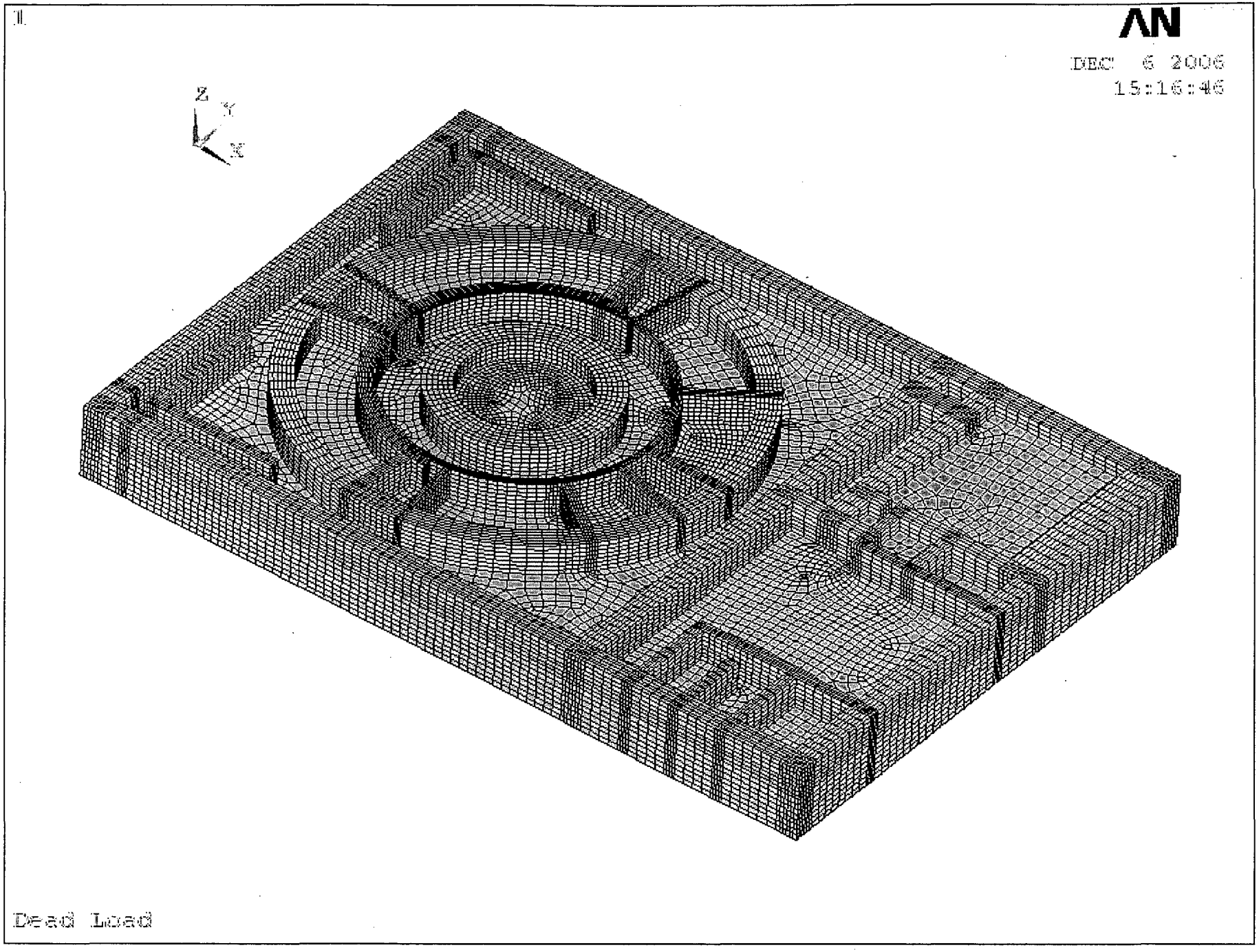
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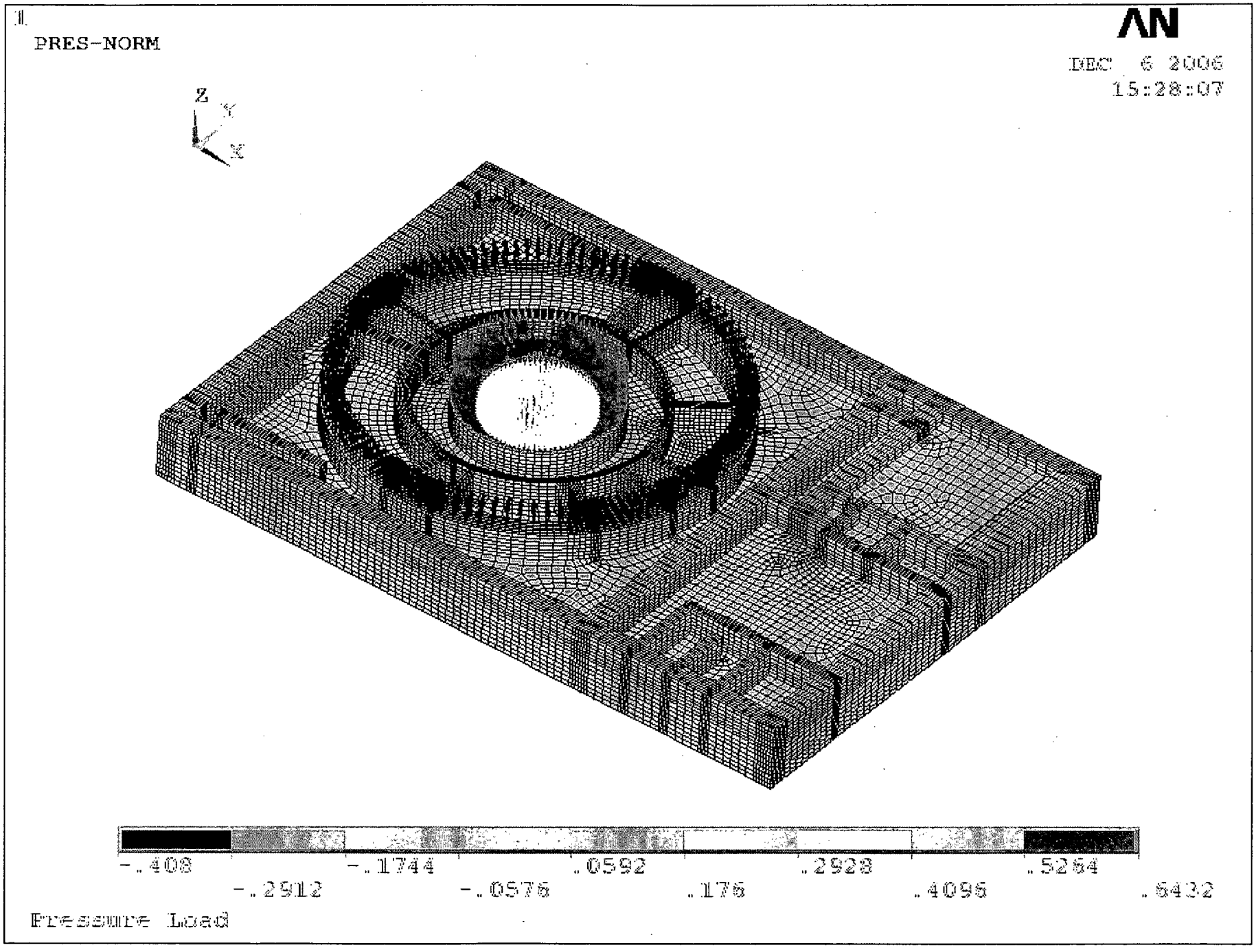
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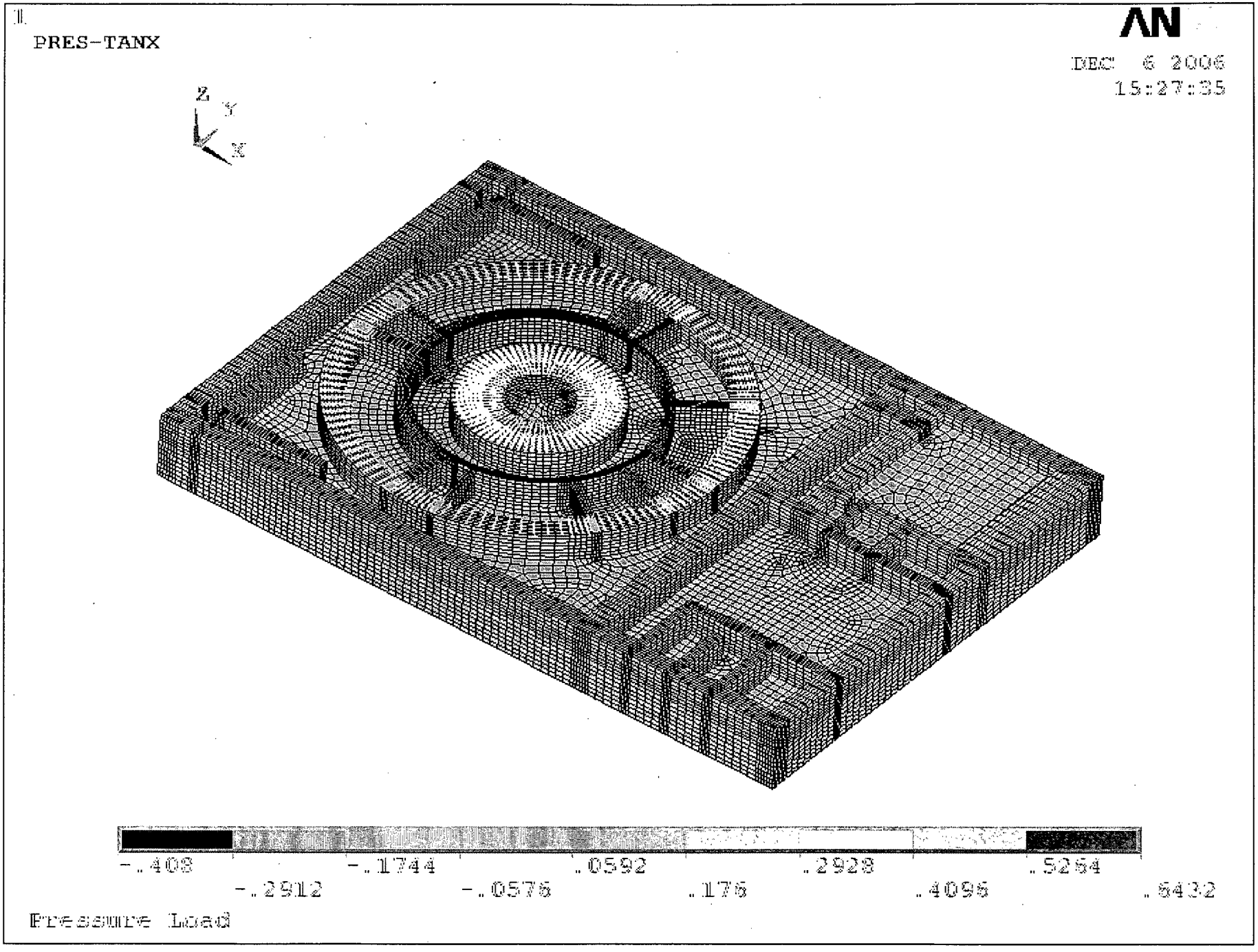
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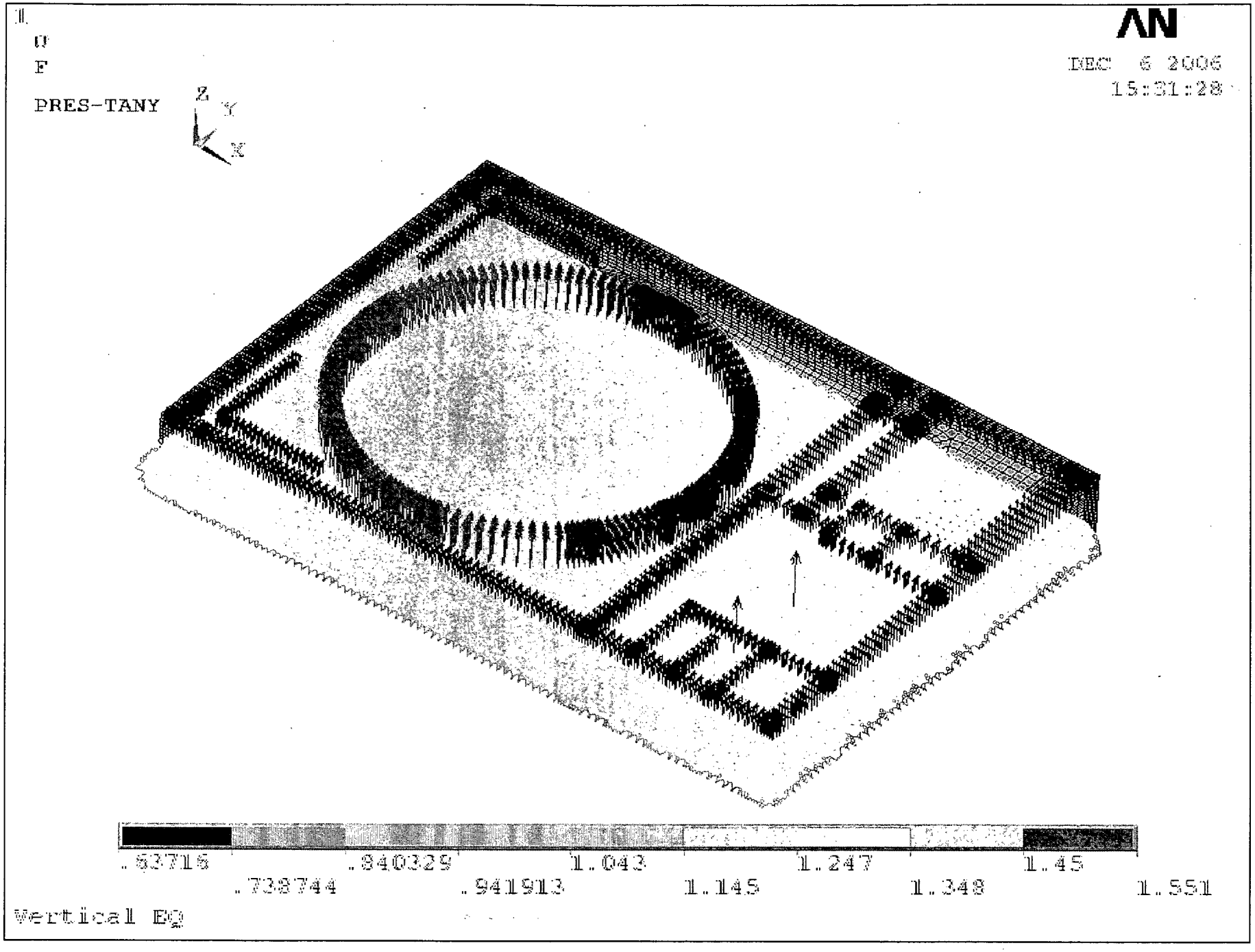
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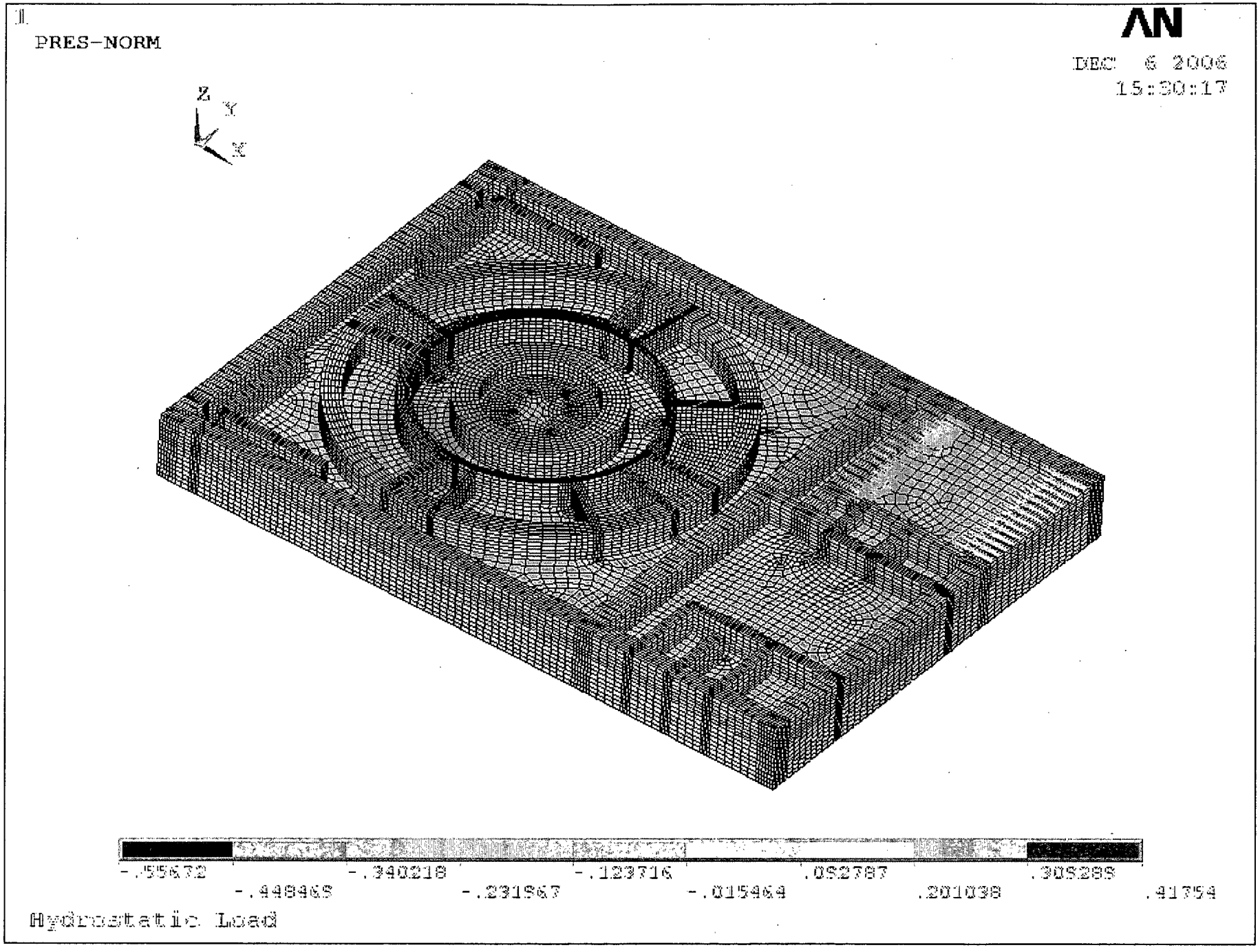
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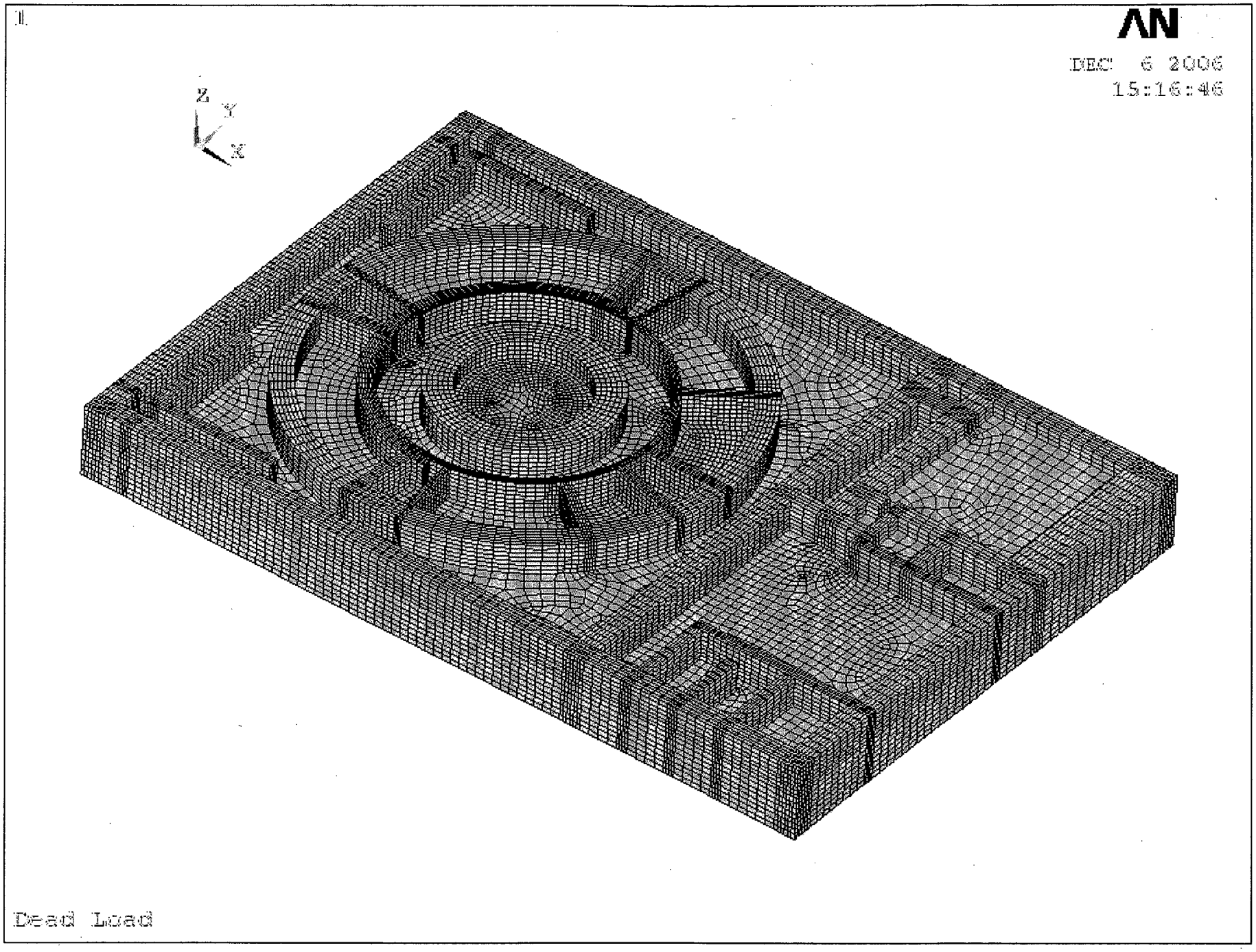
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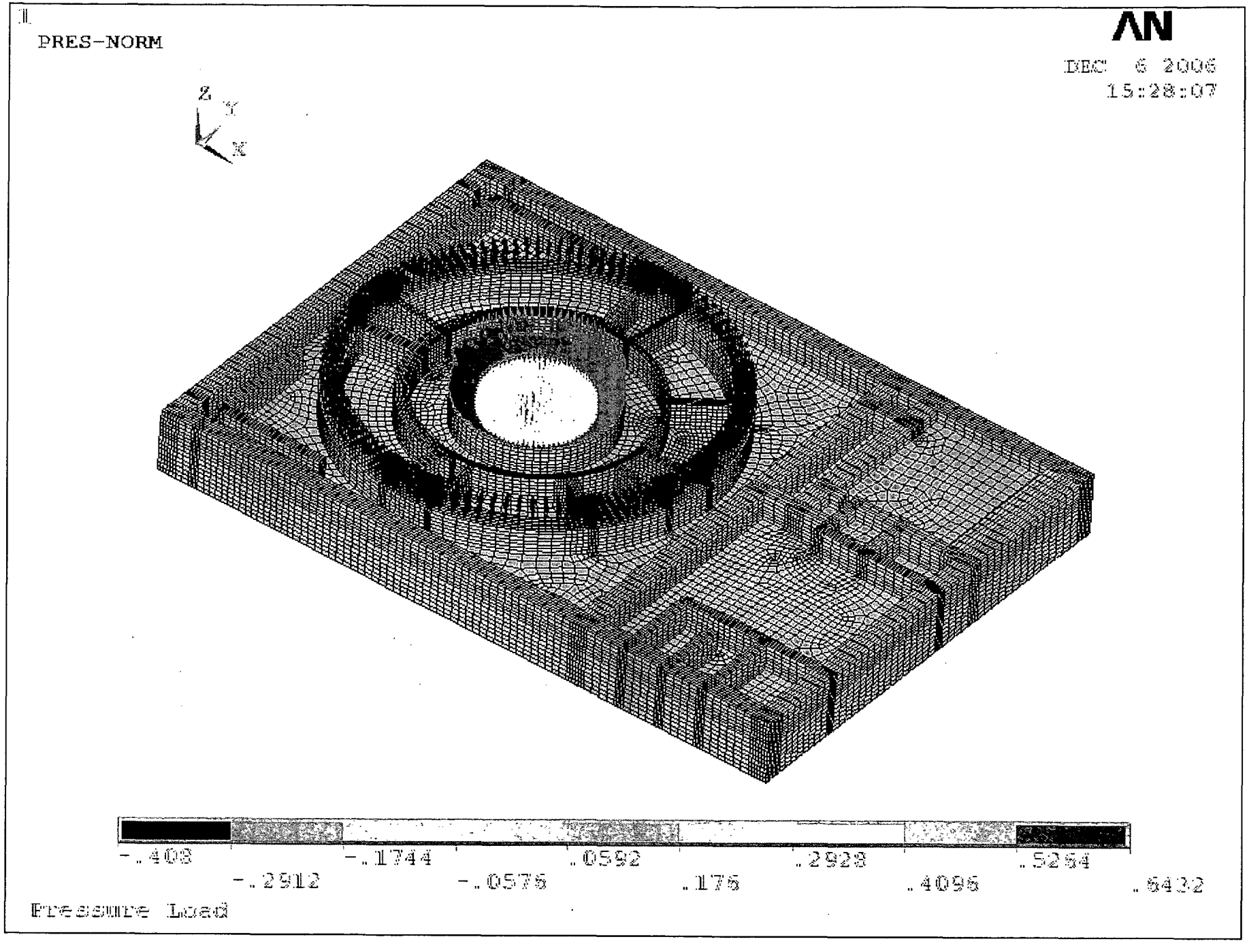
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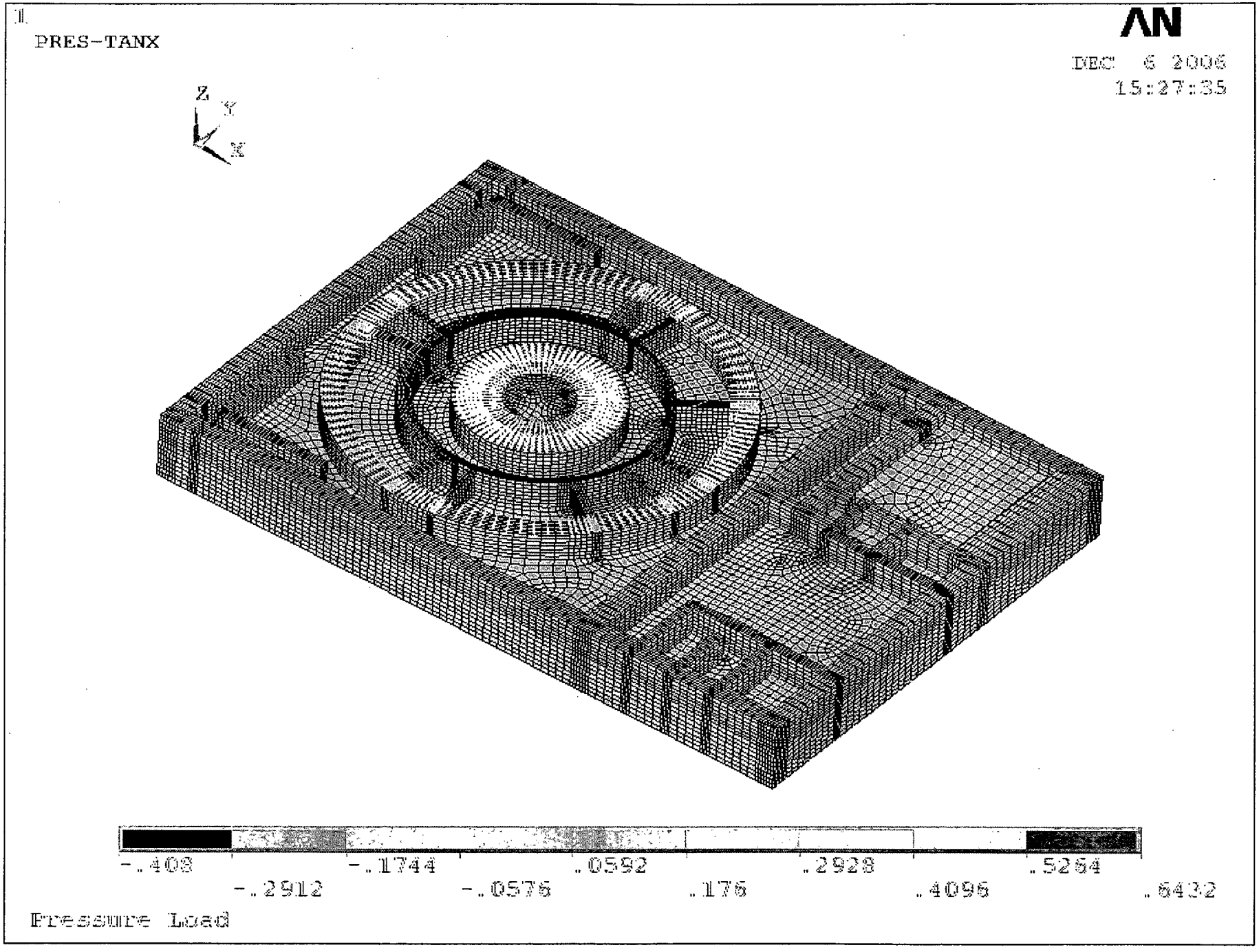
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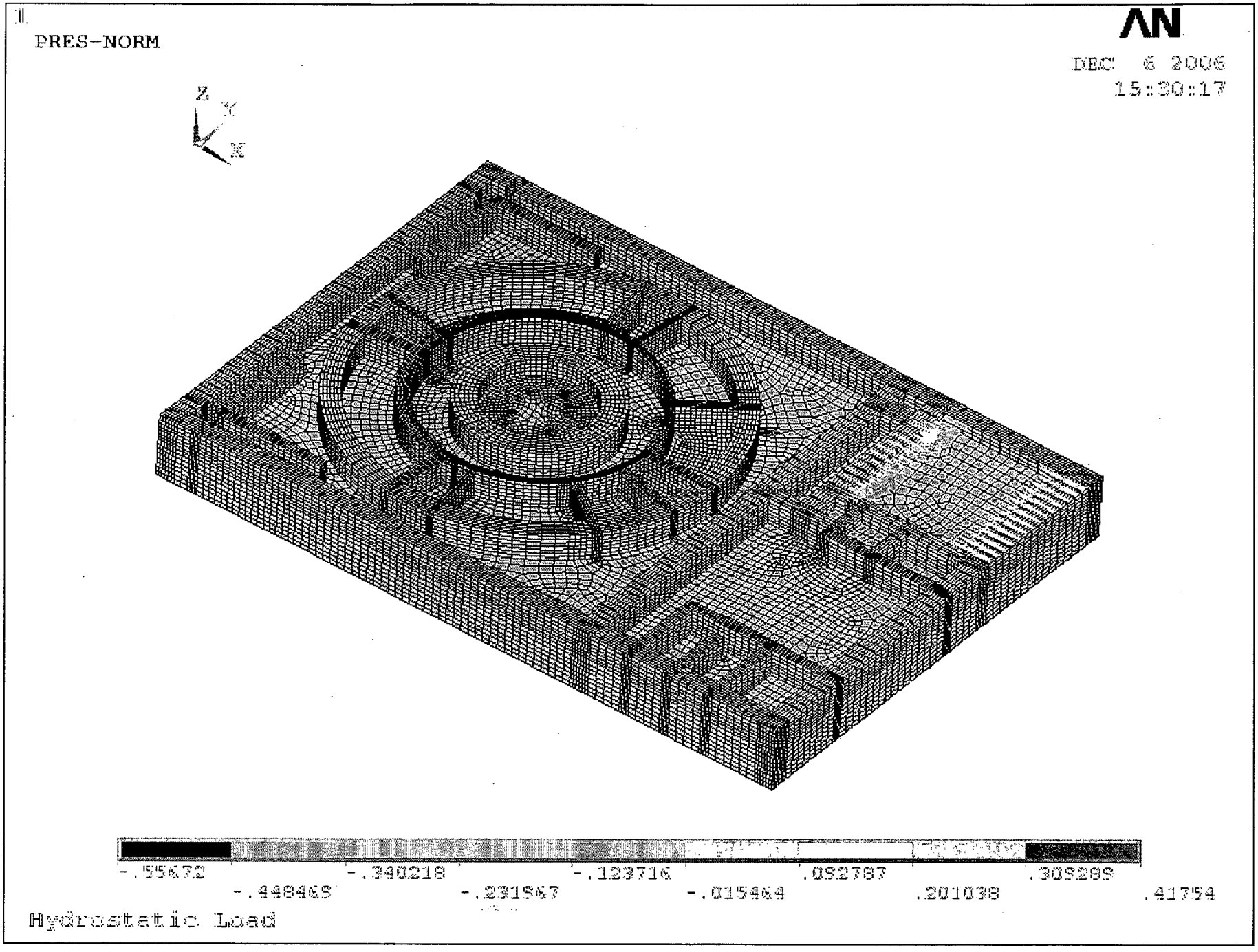
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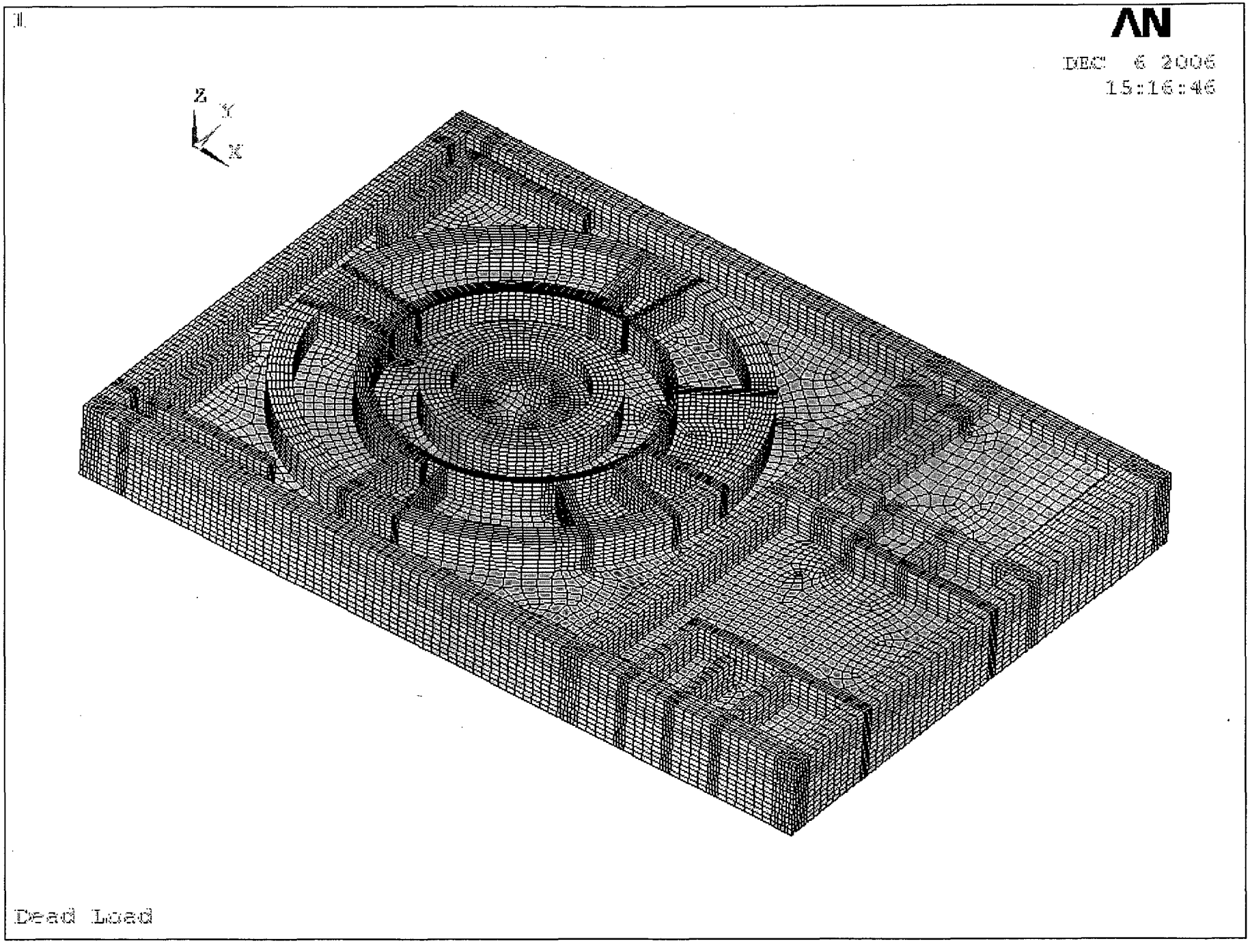
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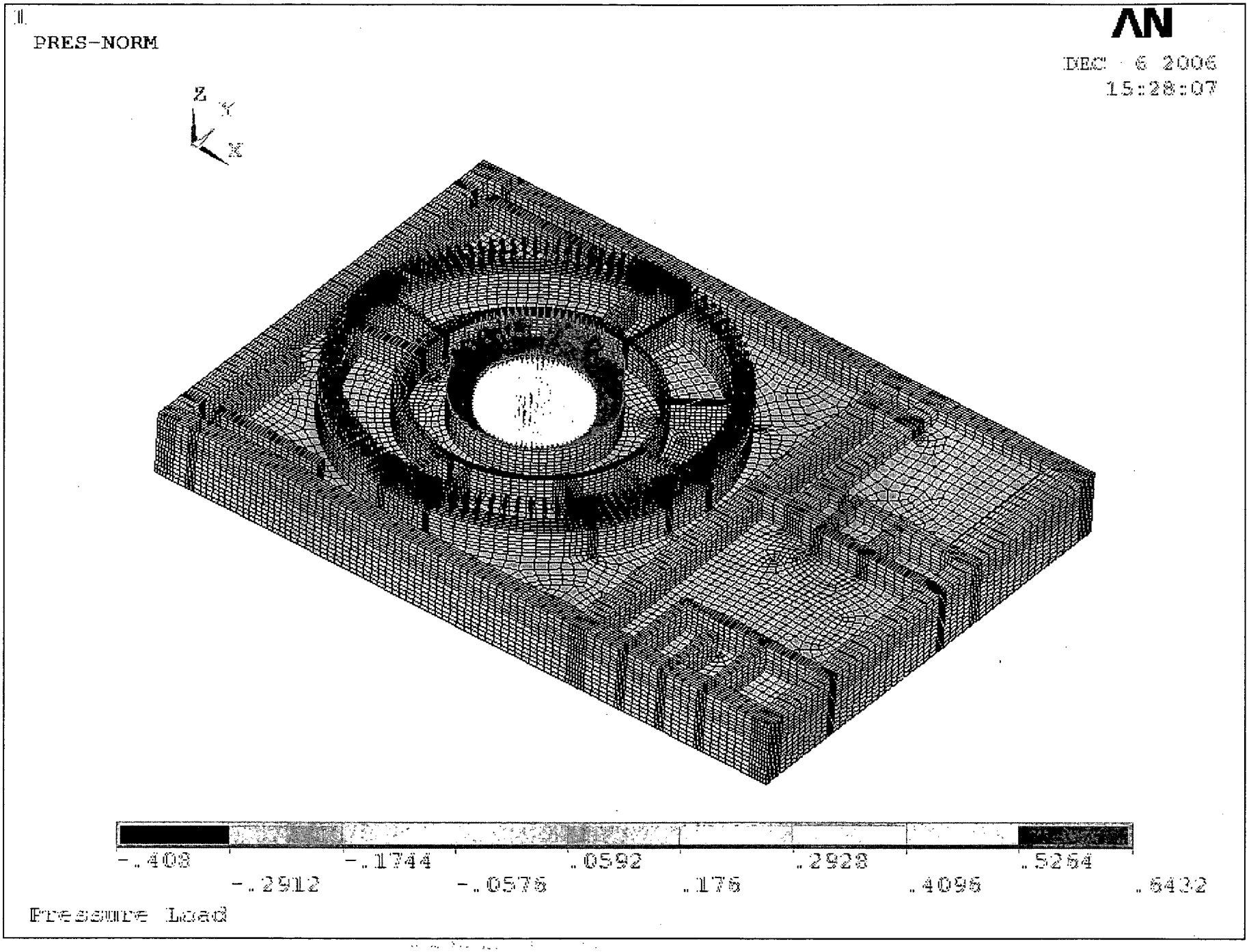
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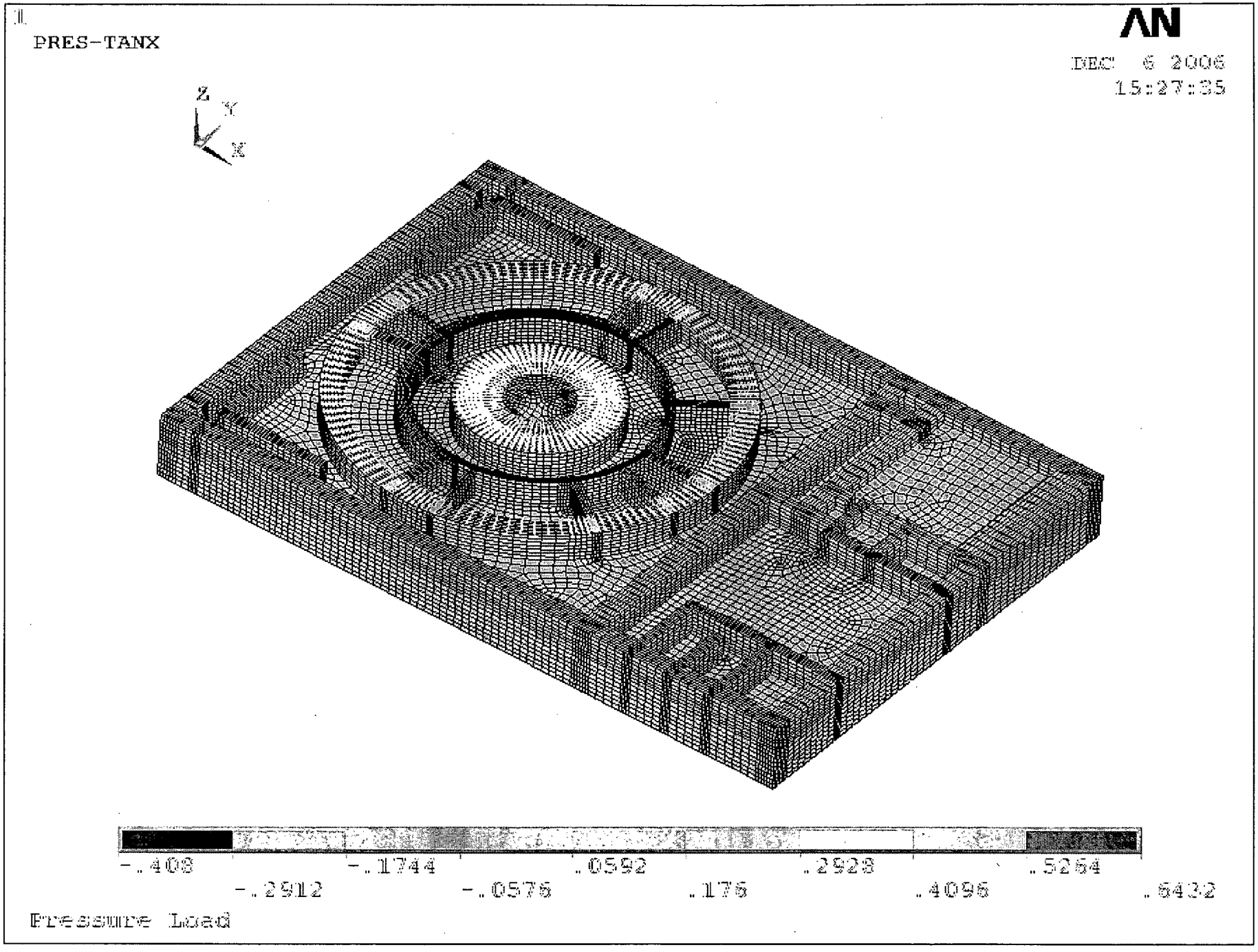
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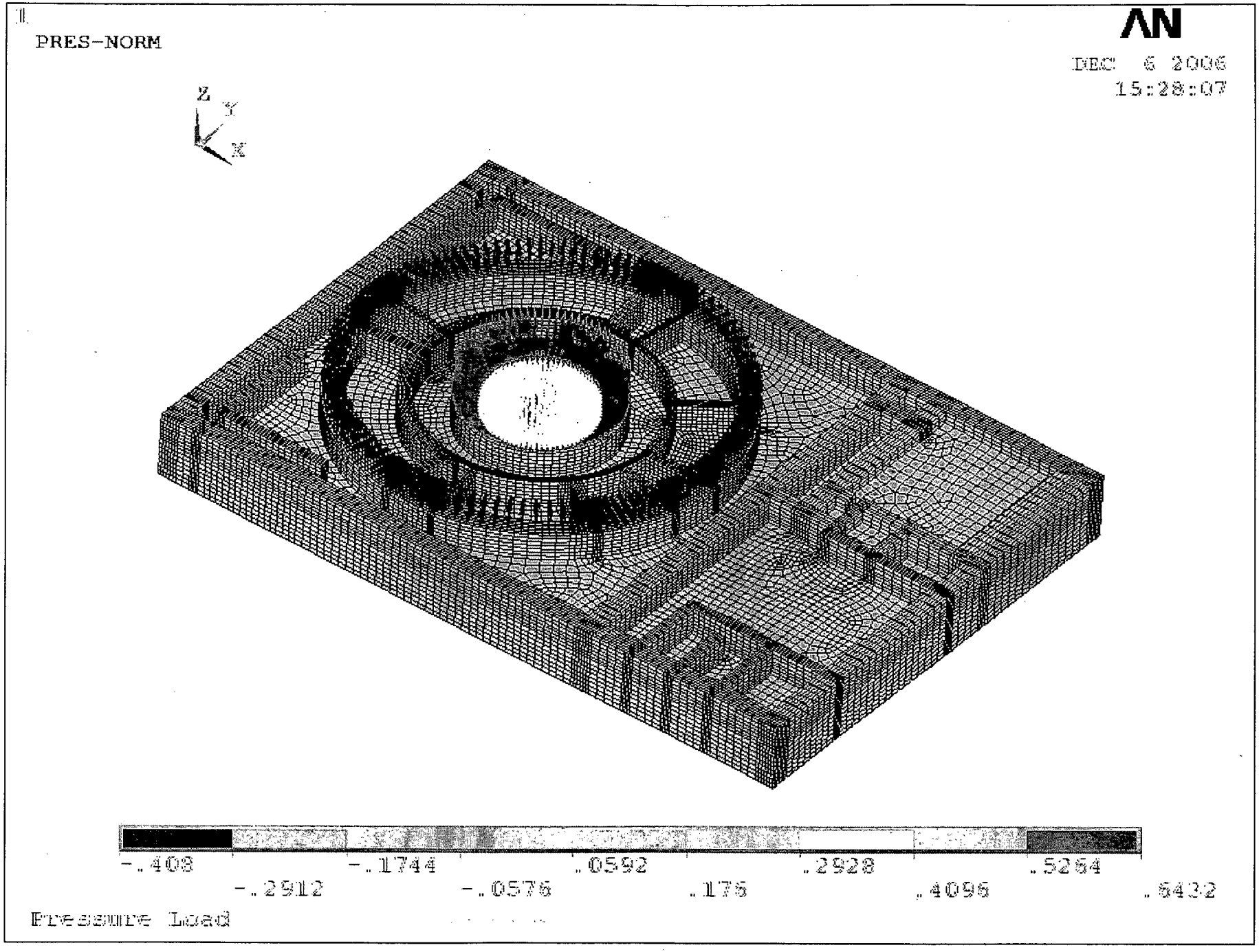
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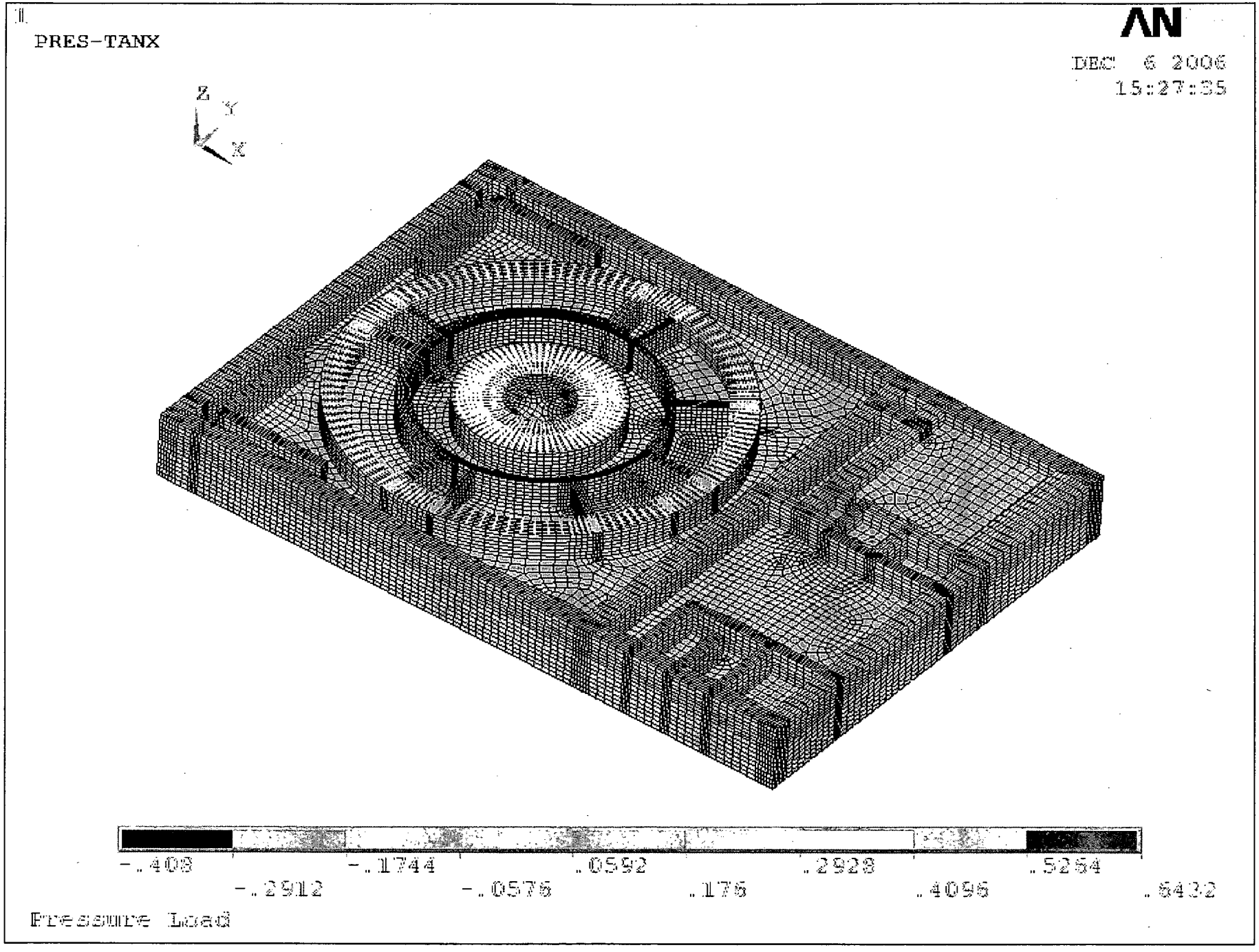
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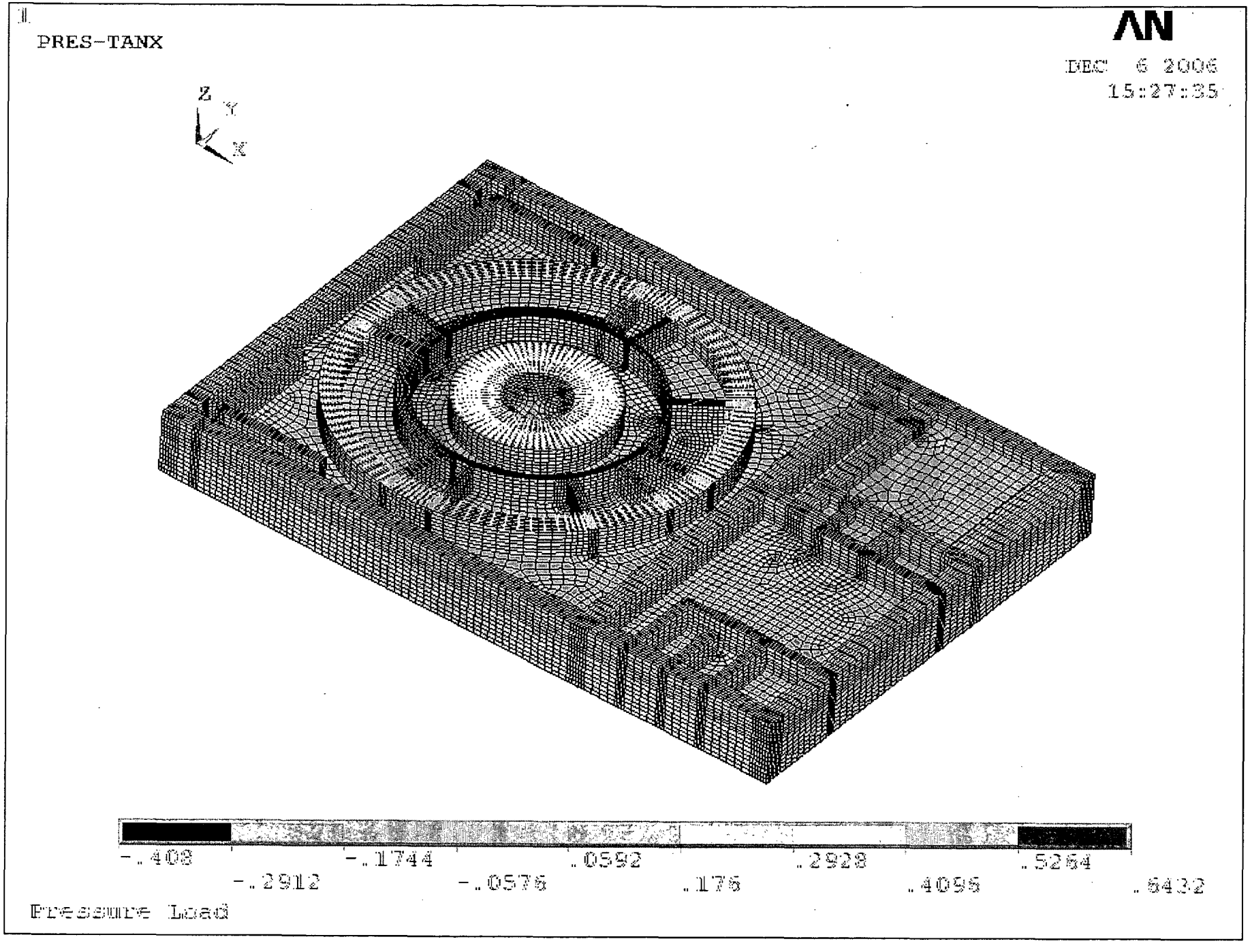
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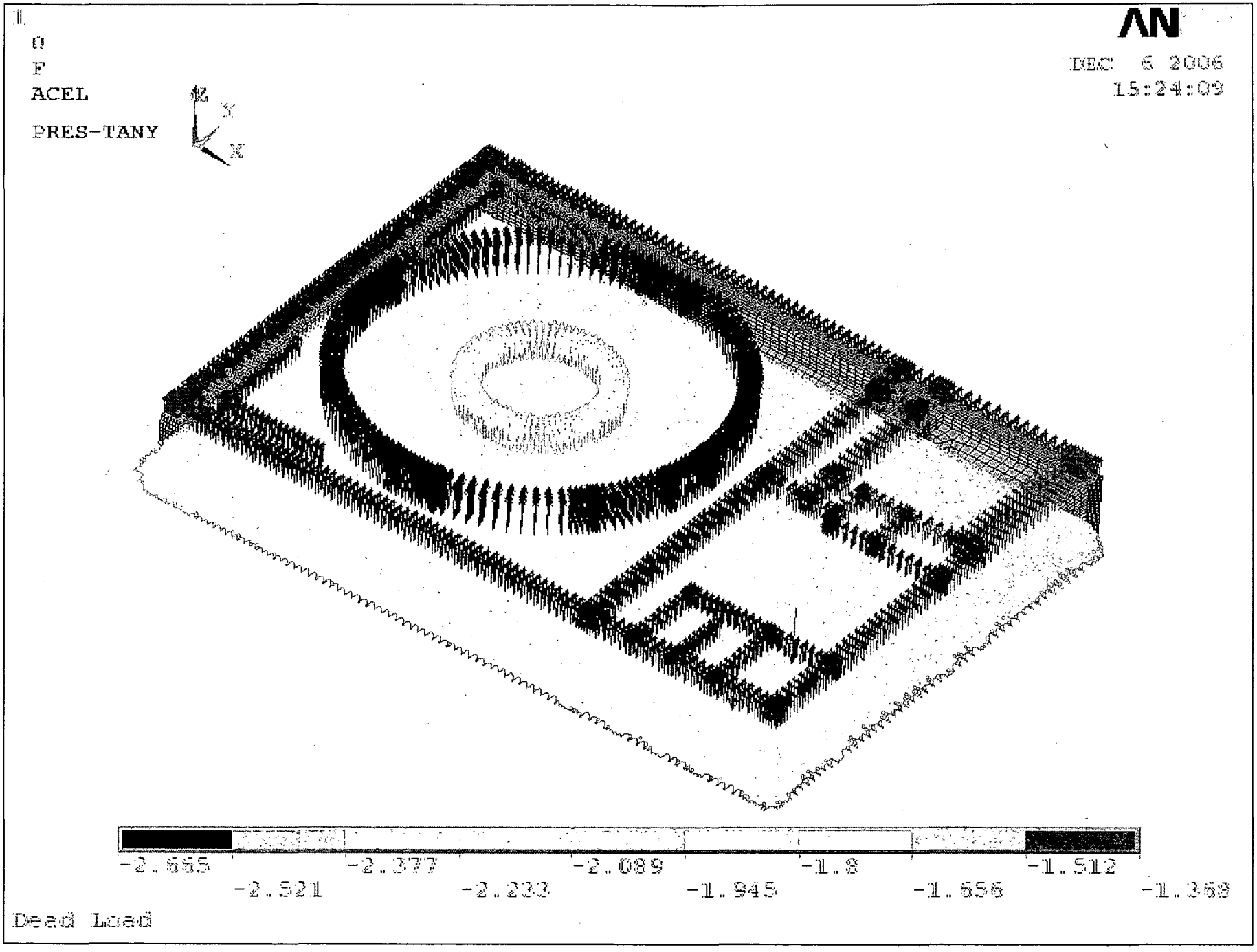
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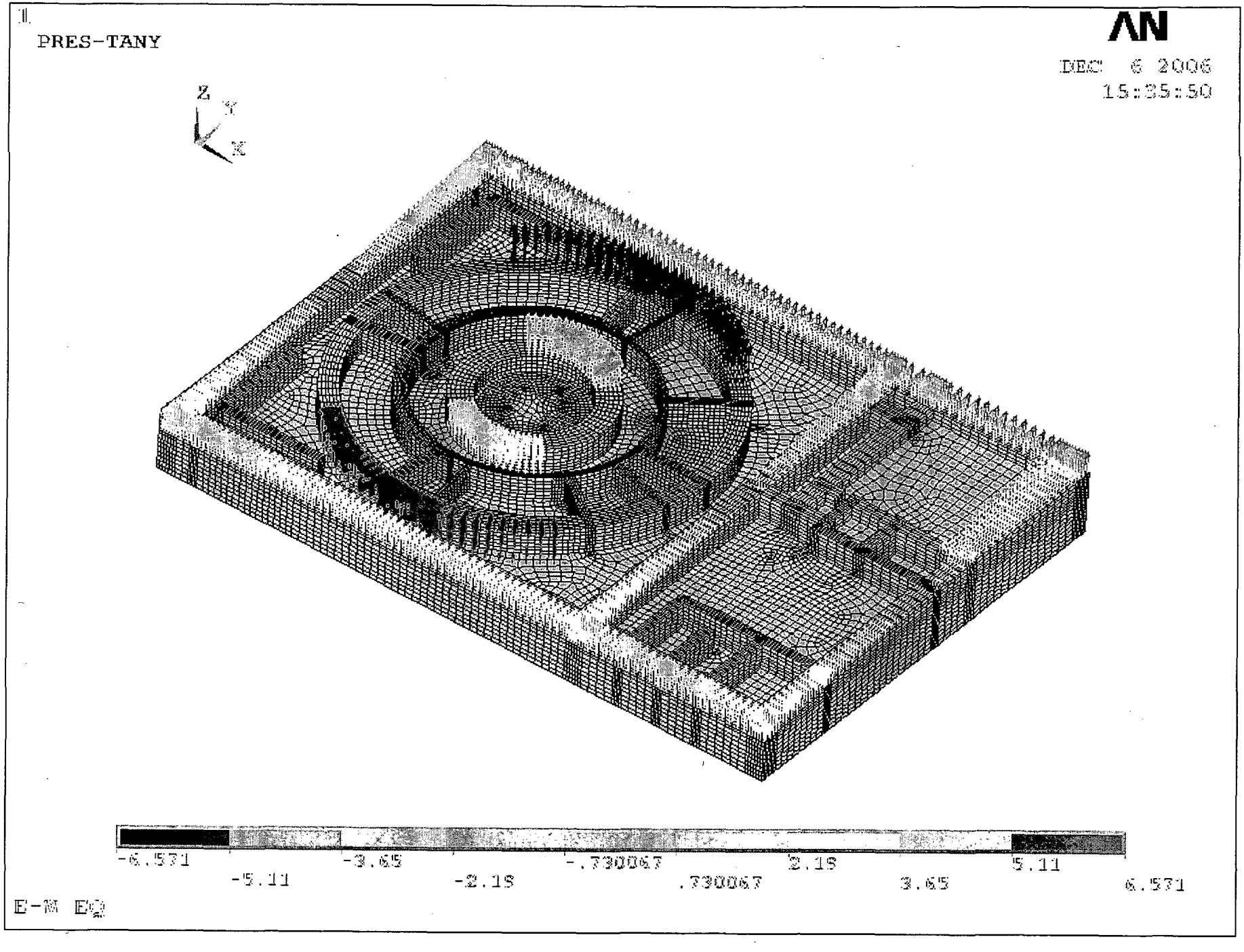
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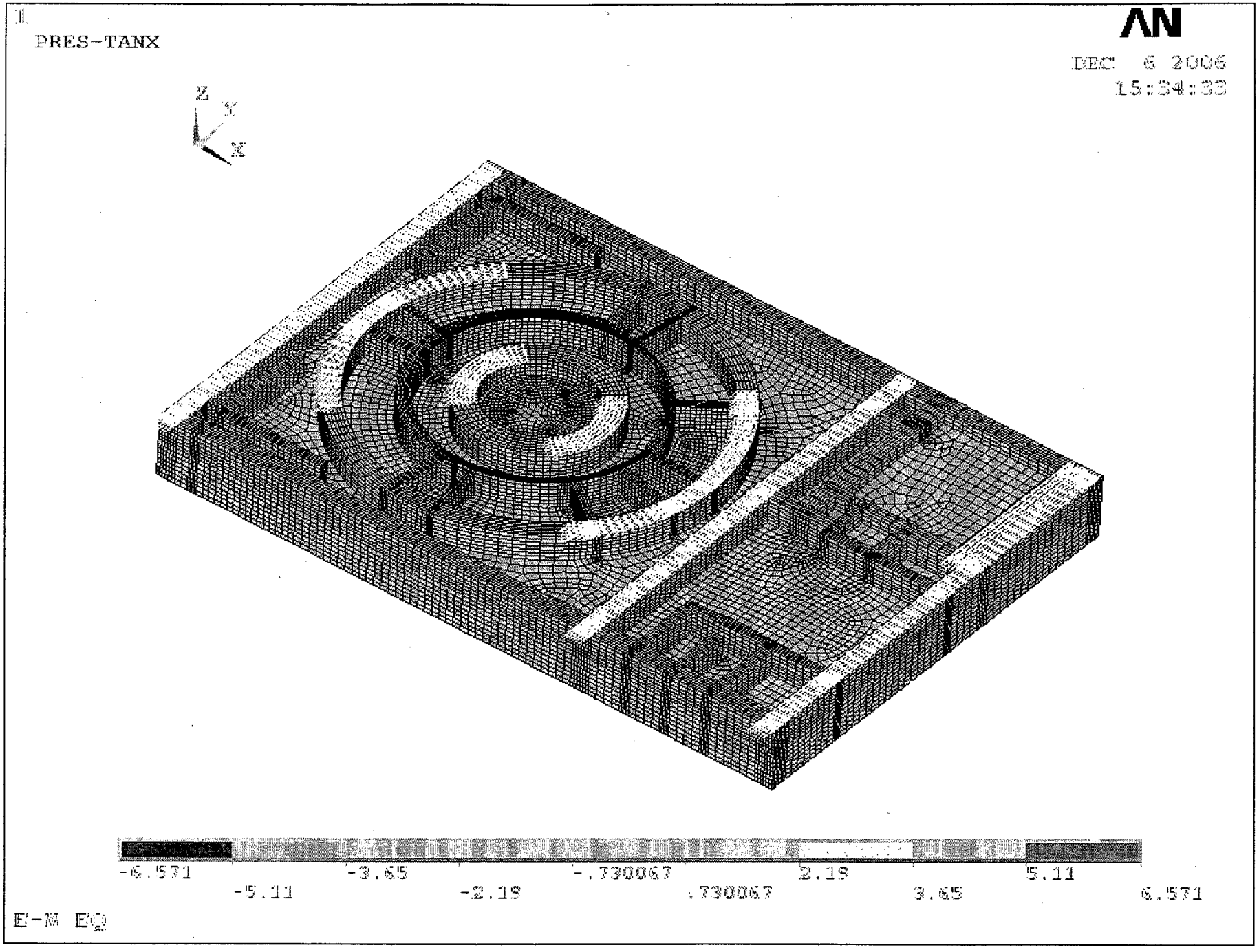
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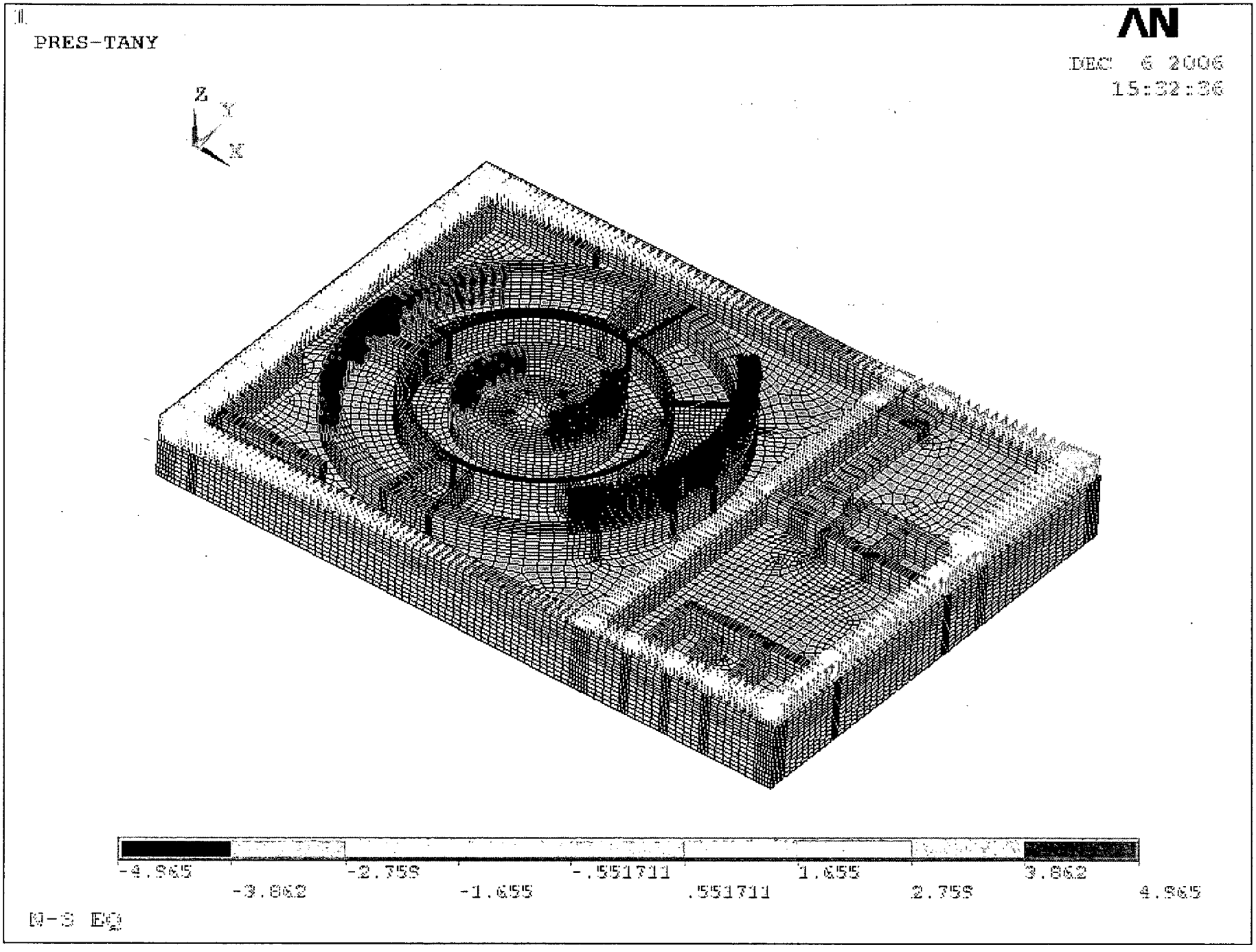
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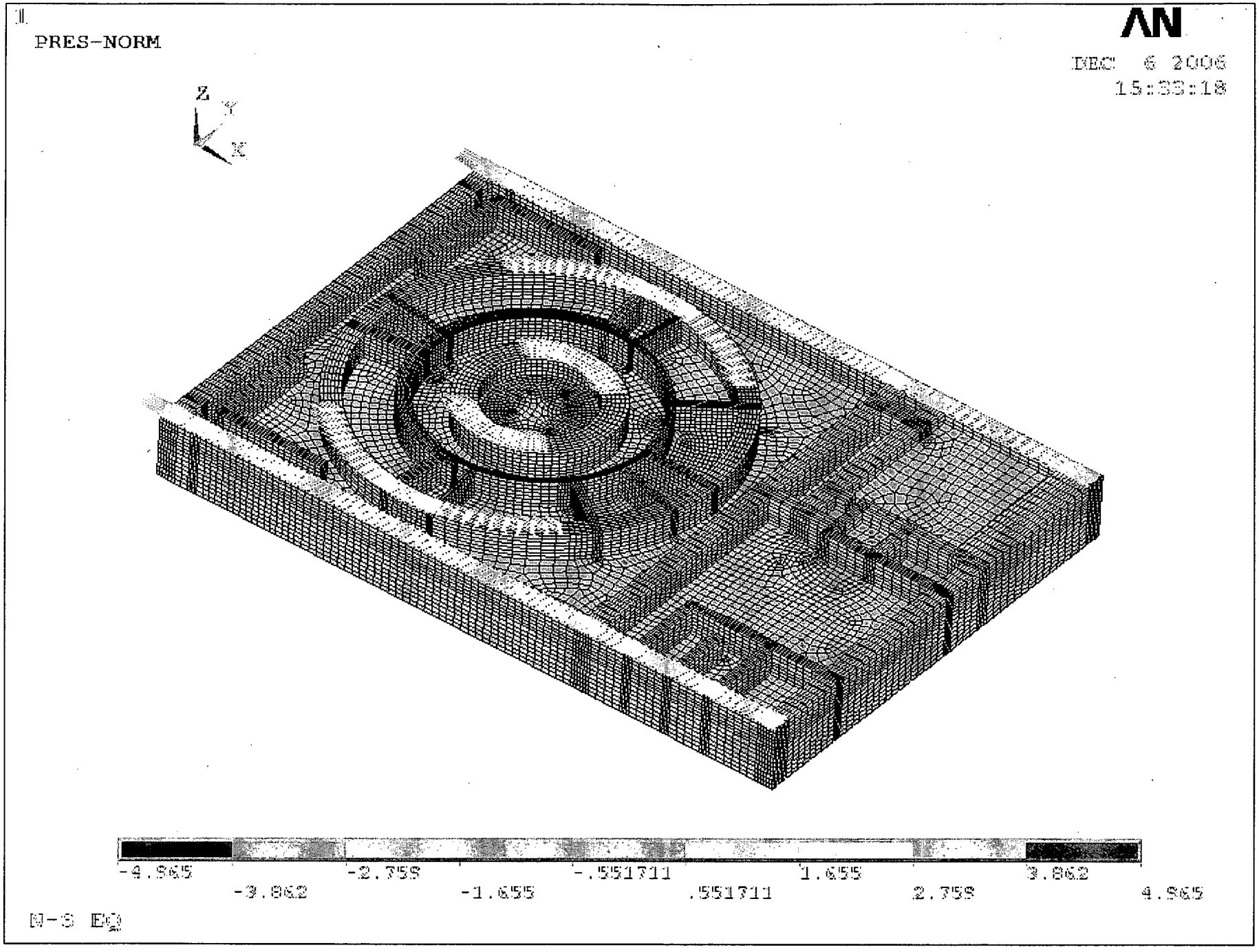
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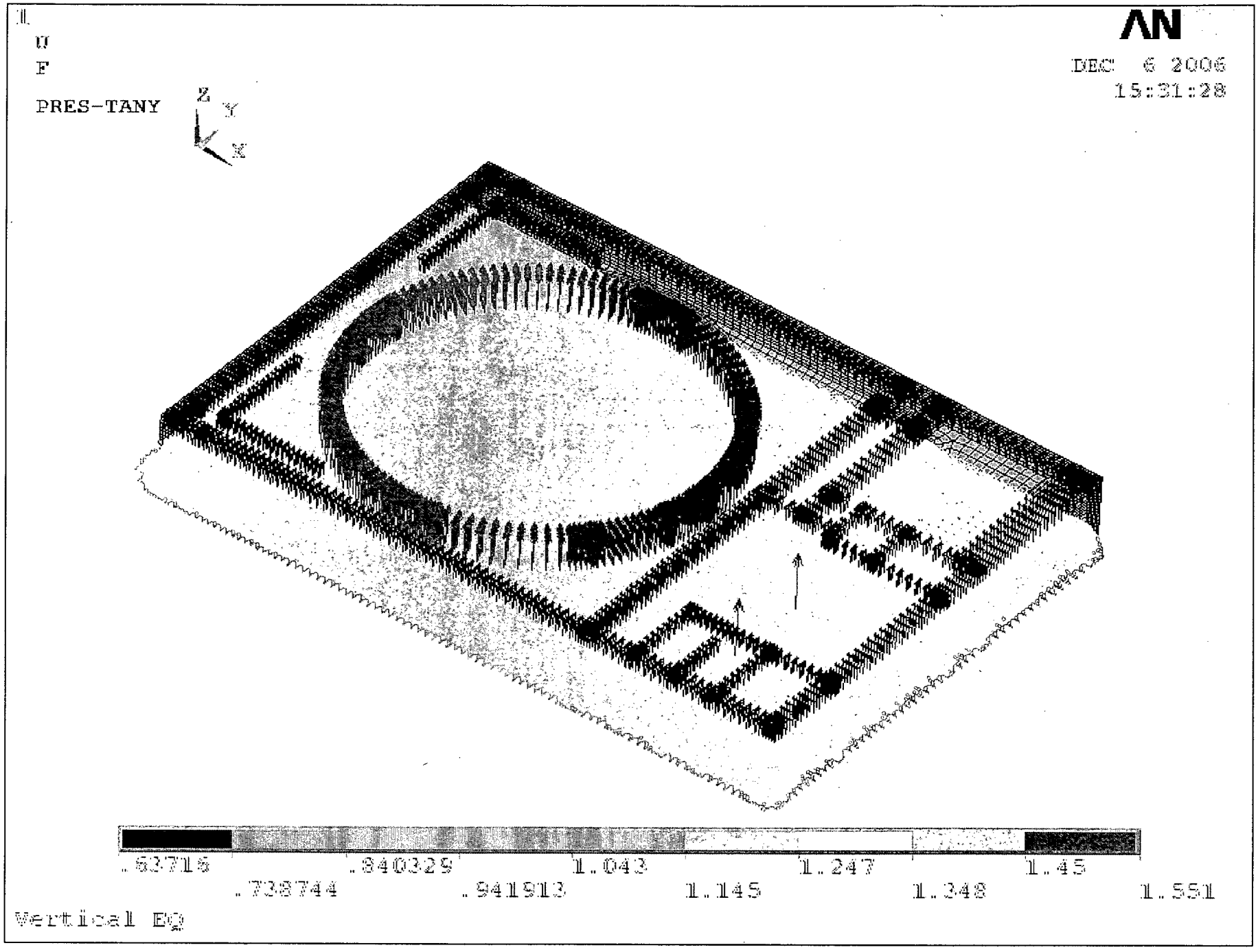
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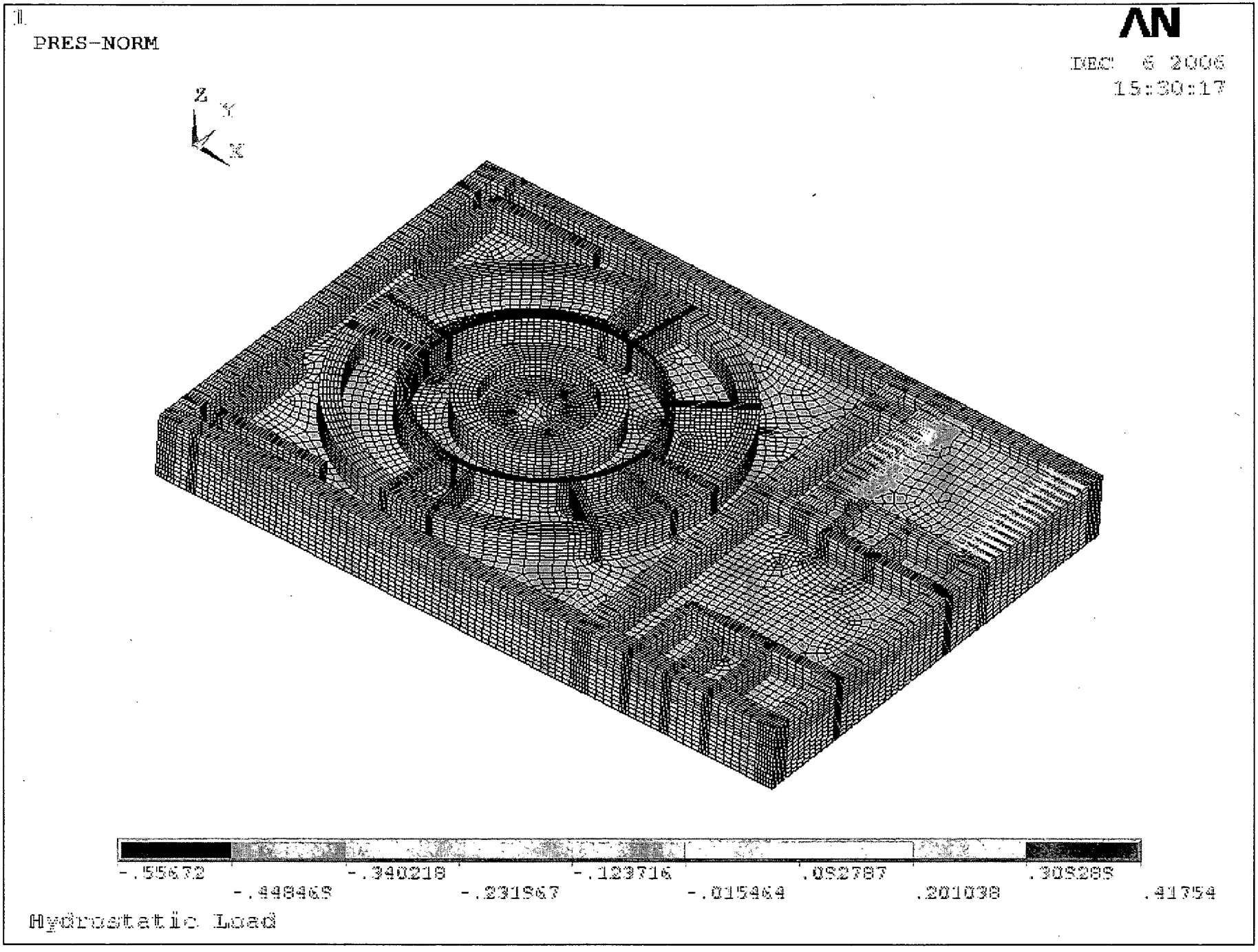
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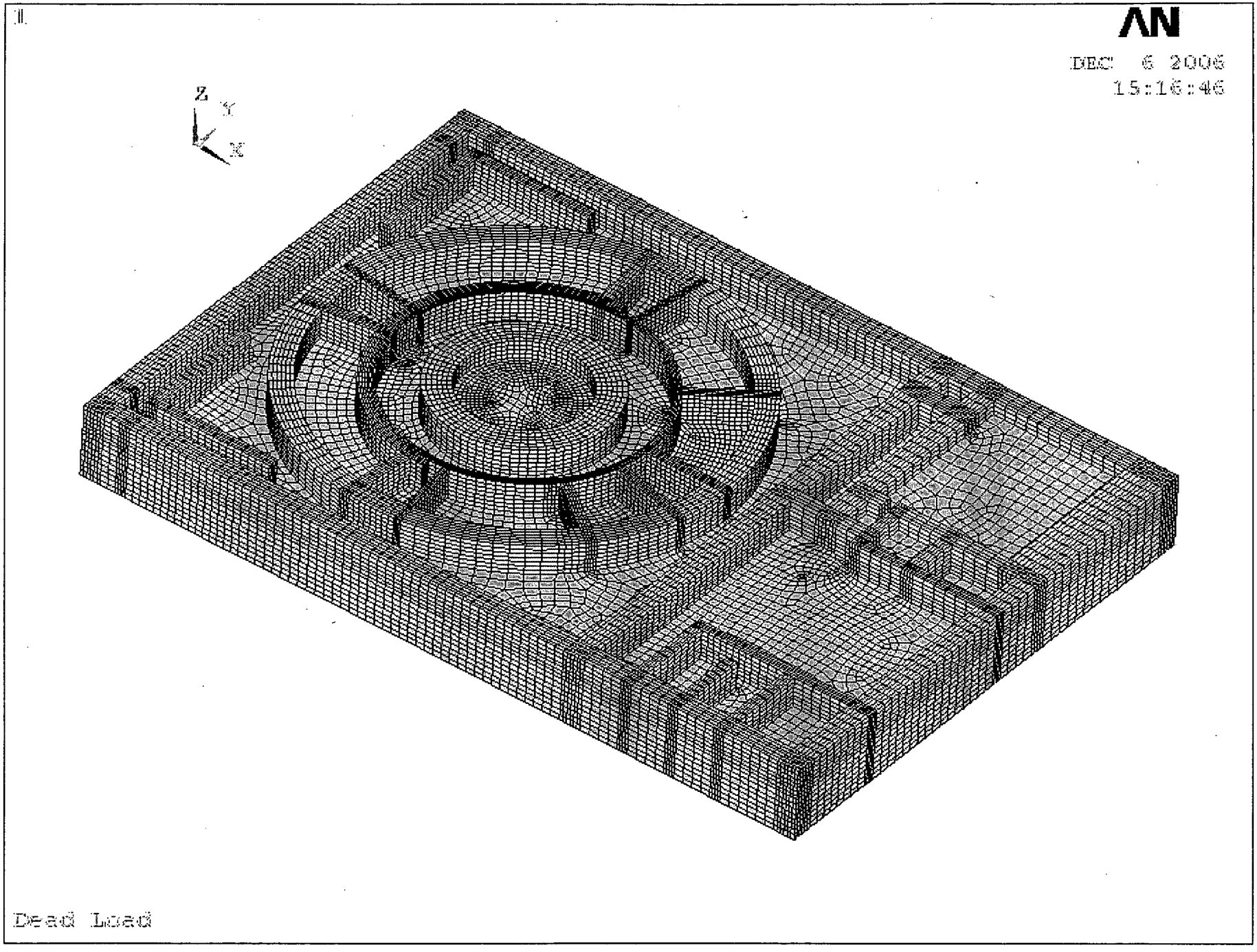
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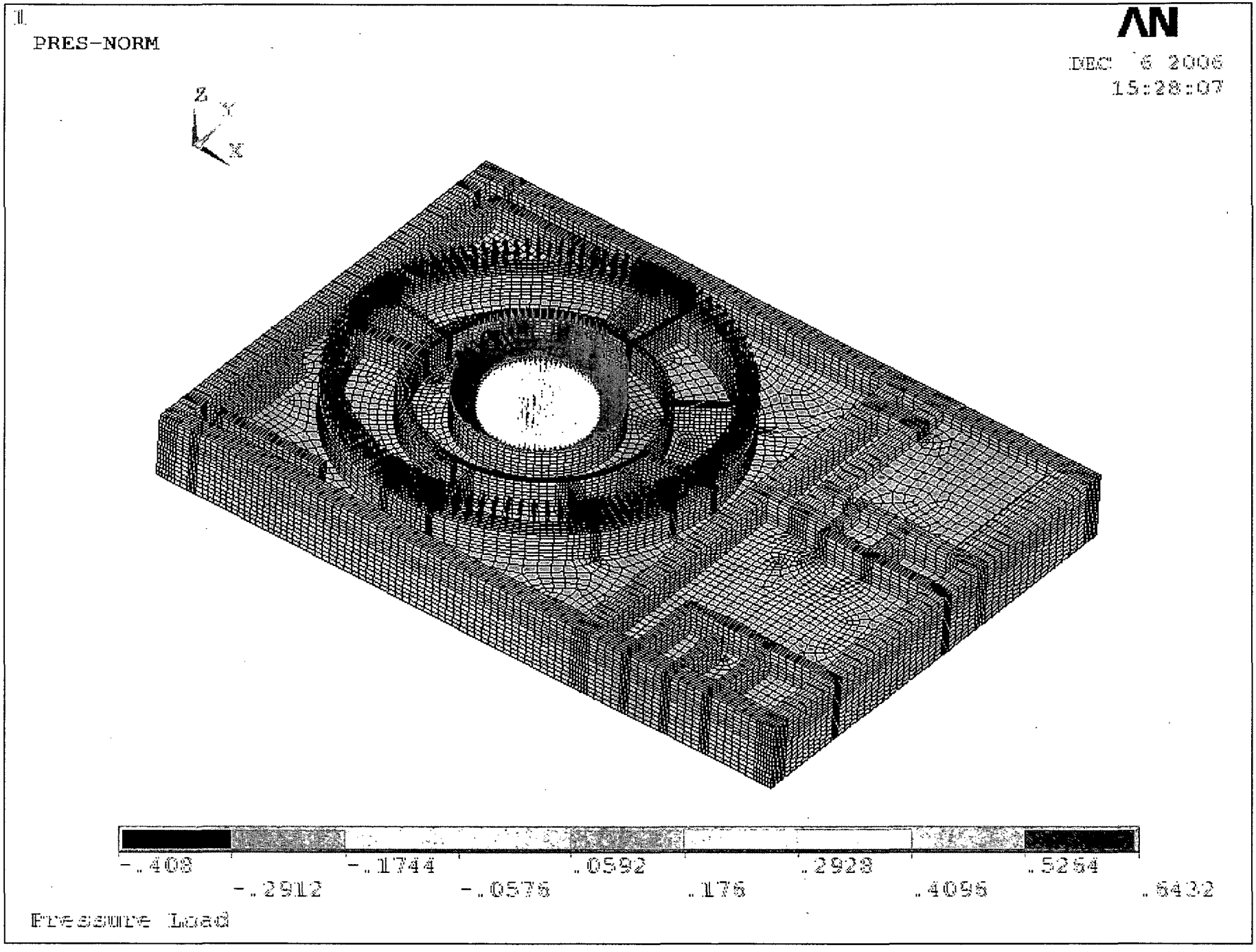
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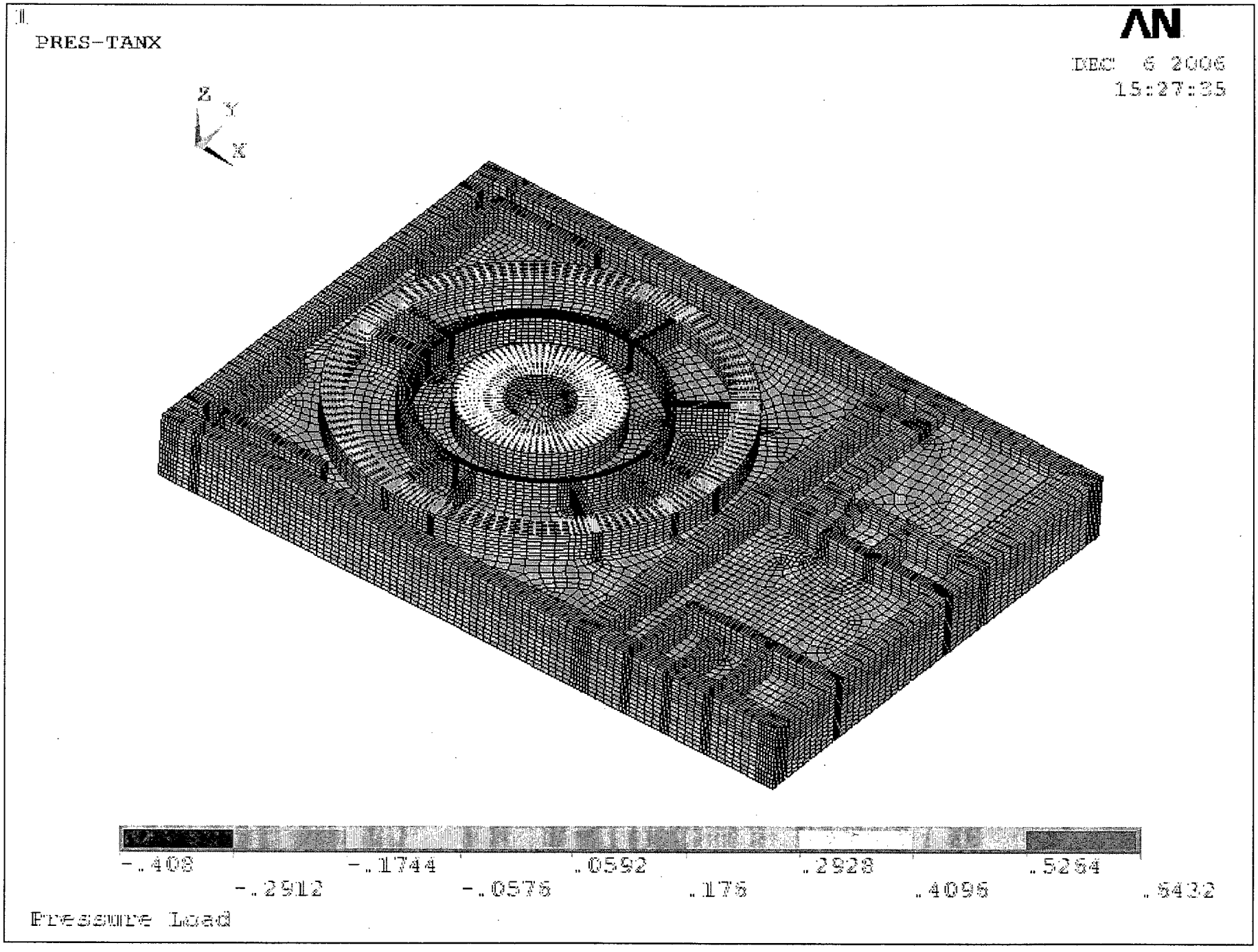
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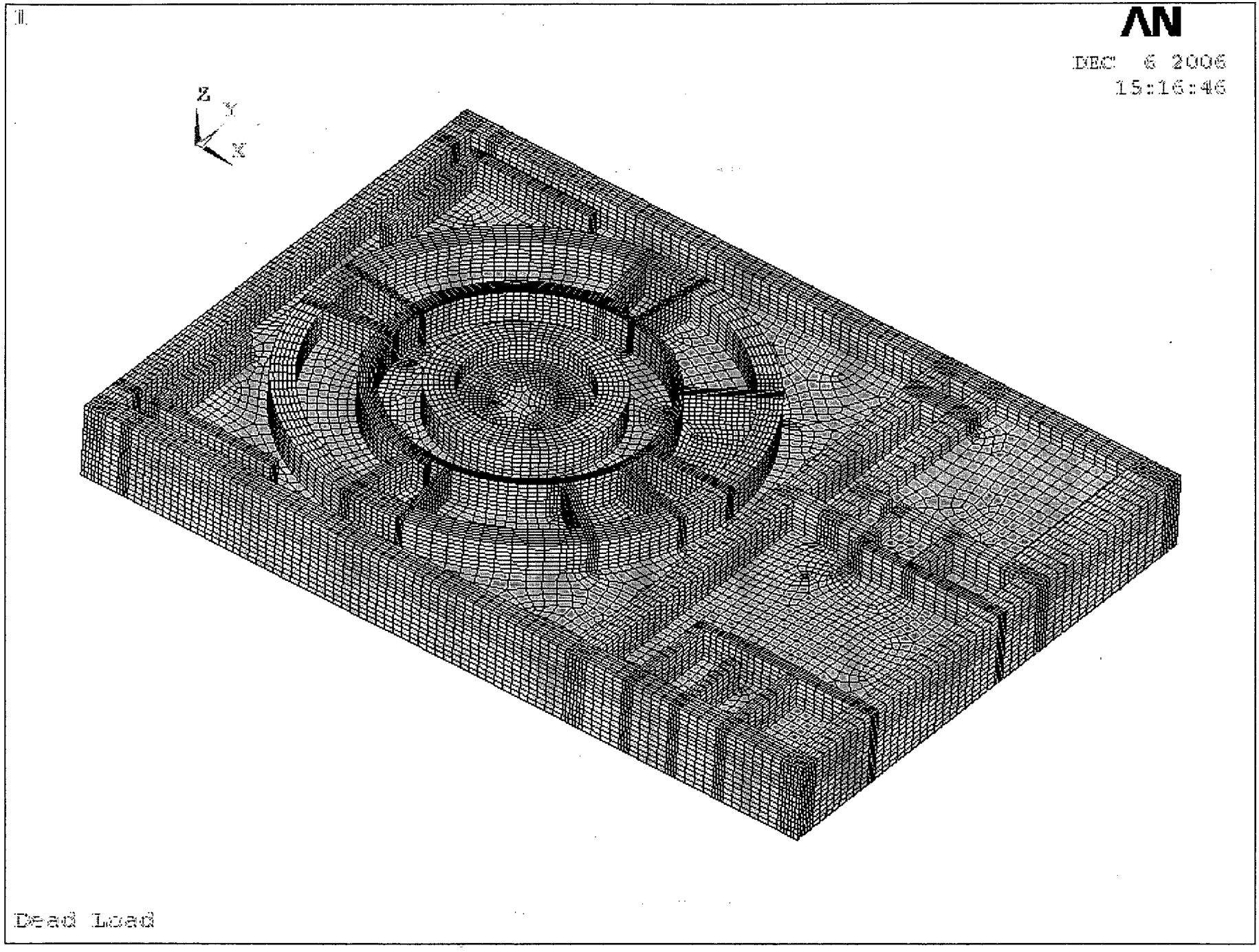
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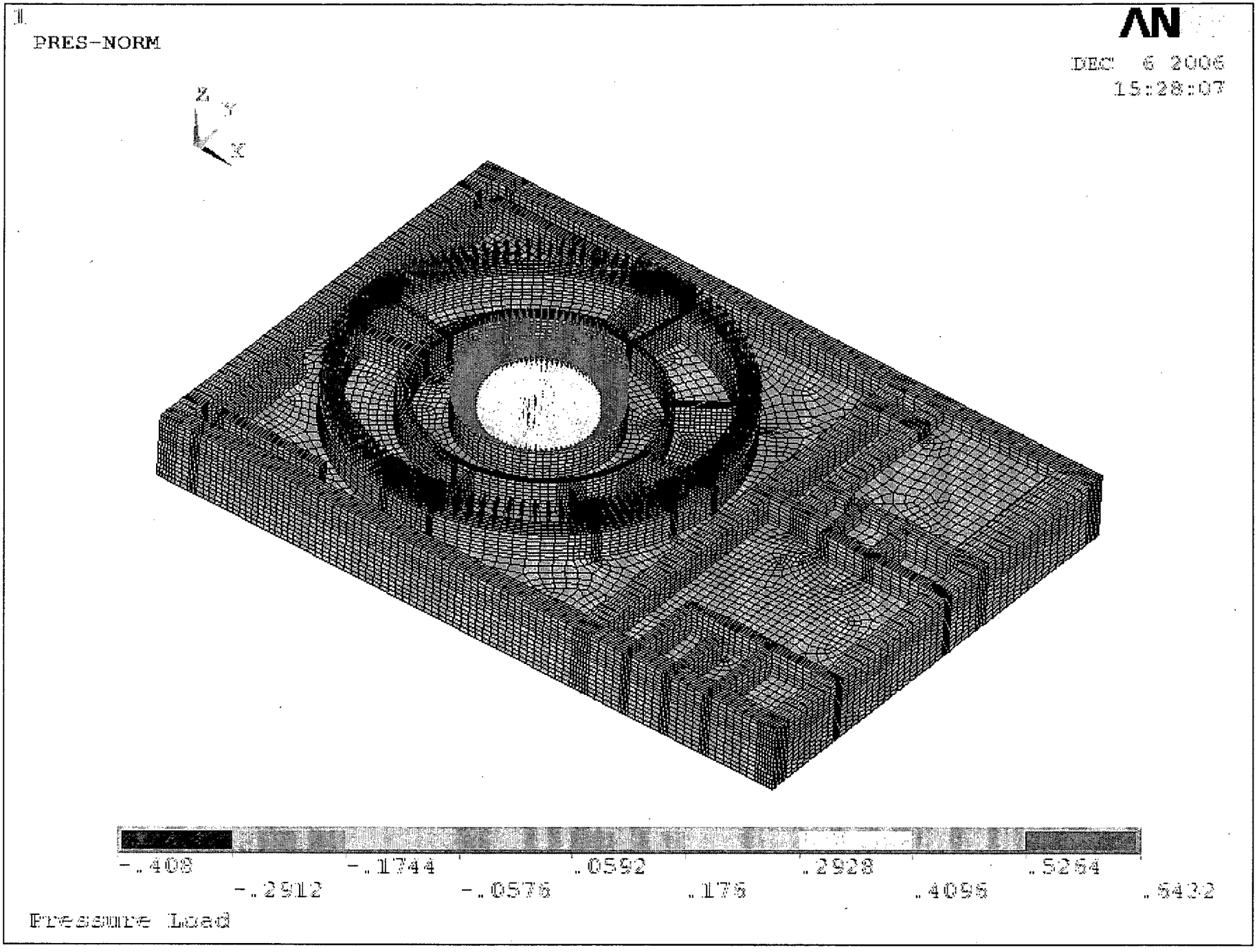
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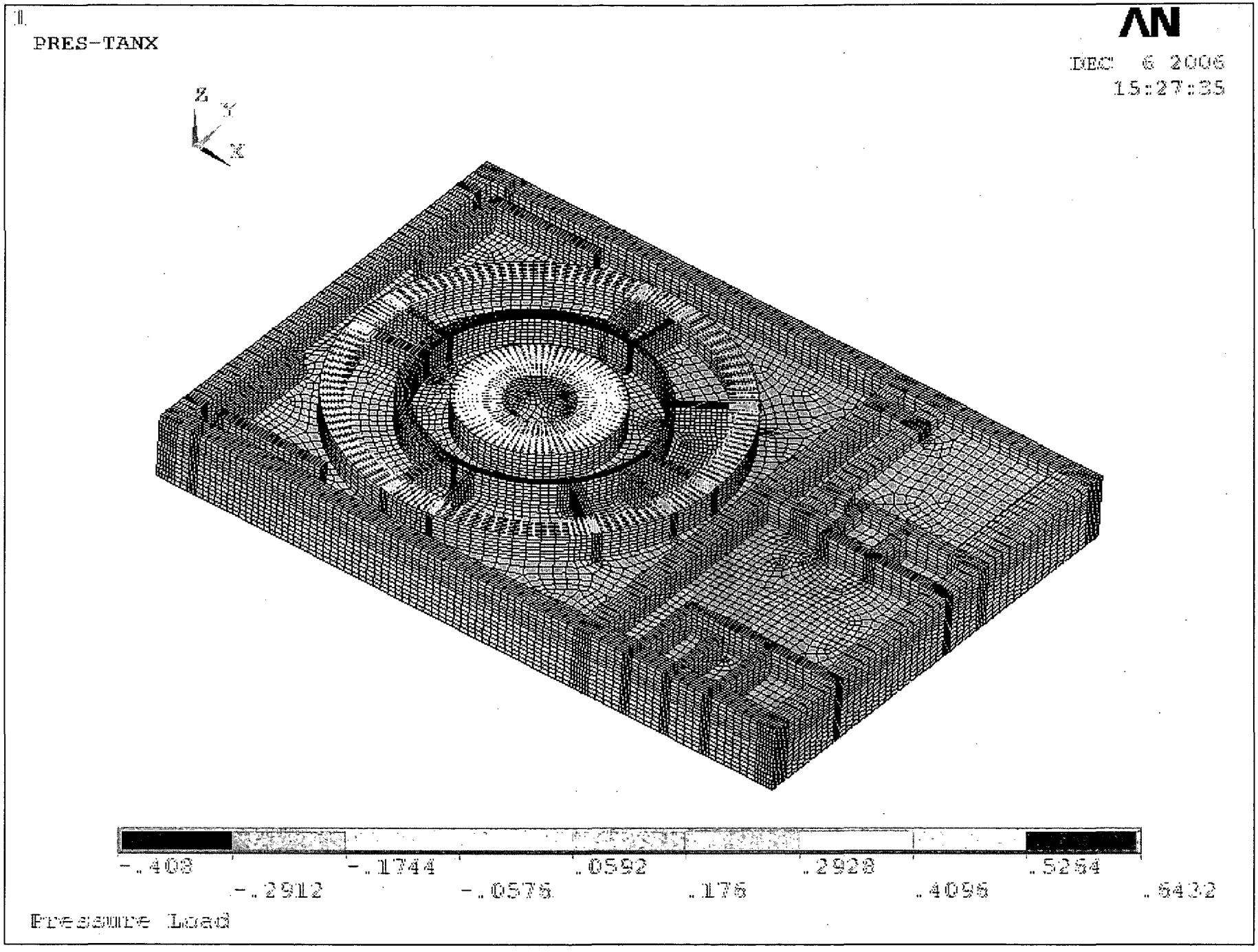
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