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

Originator:

*S. C. Tumminelli*  
S. C. Tumminelli

Date:

September 20, 2002

## **Appendix TPad-TH**

This Appendix presents the ANSYS plots documenting the pad applied temperatures for the thermal stress analysis.

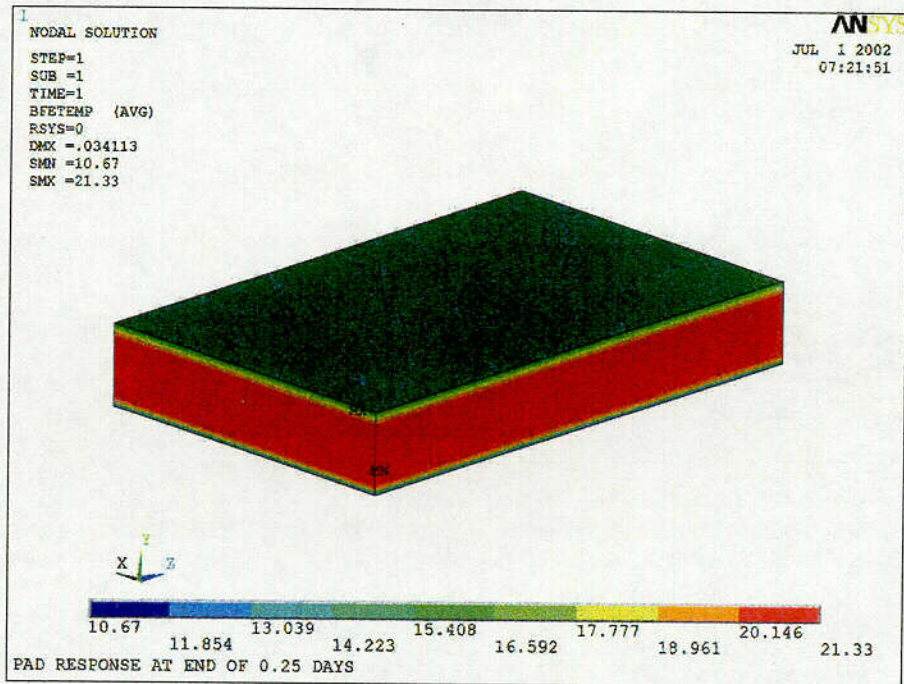


Figure T-1

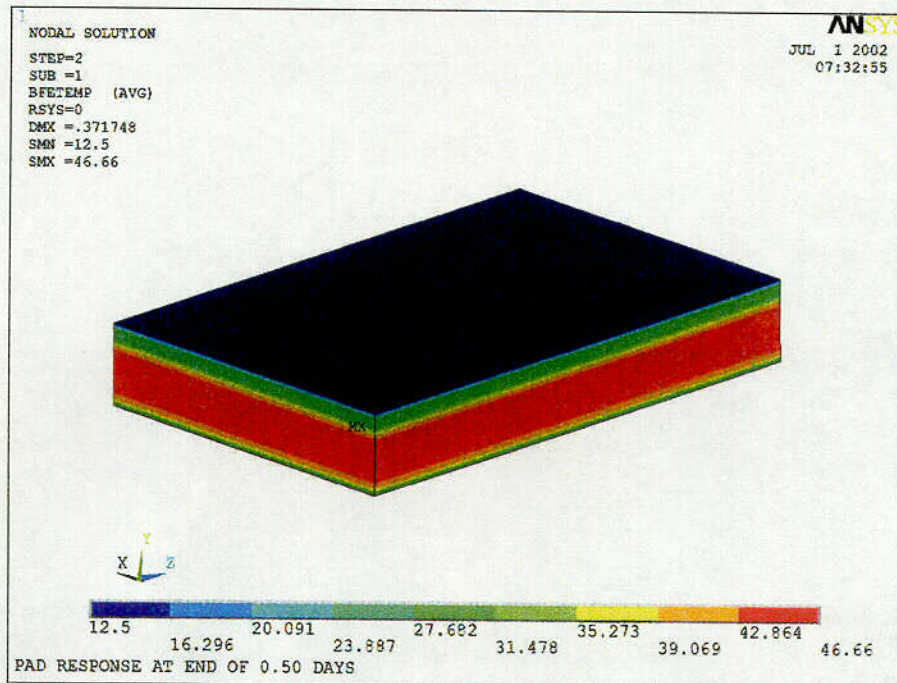


Figure T-2



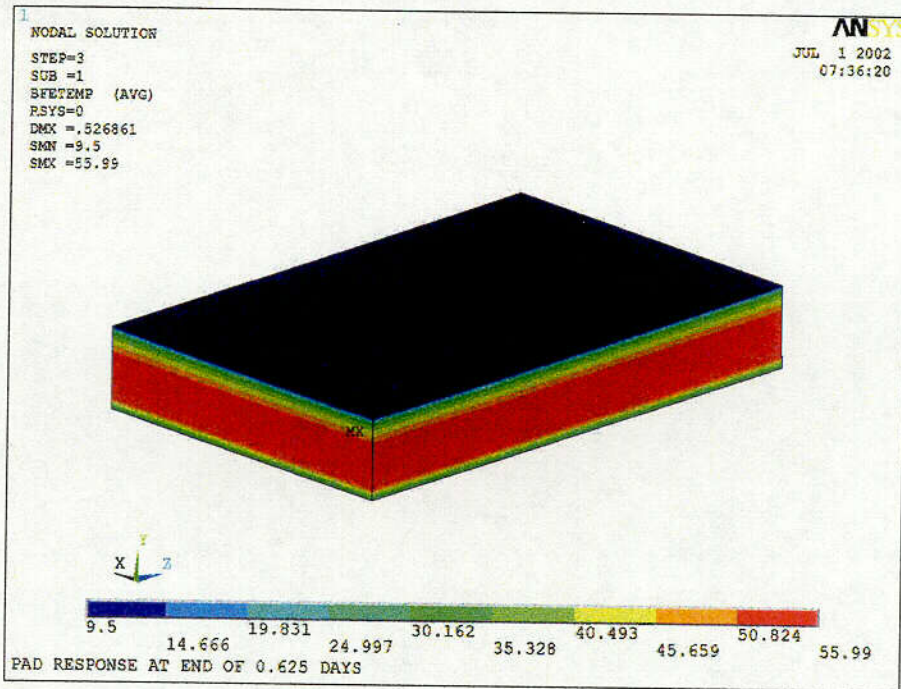


Figure T-3

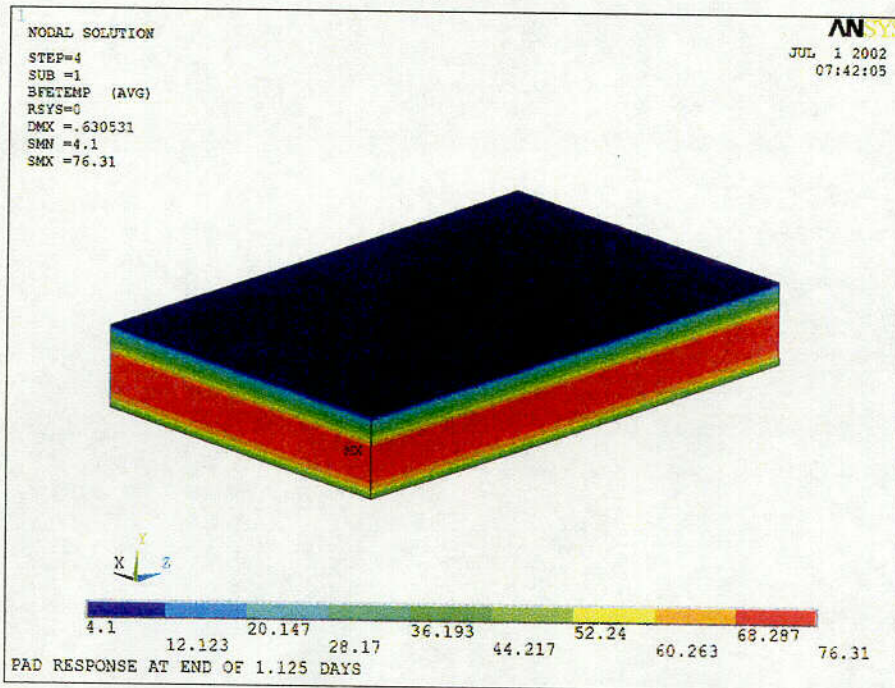


Figure T-4

COZ



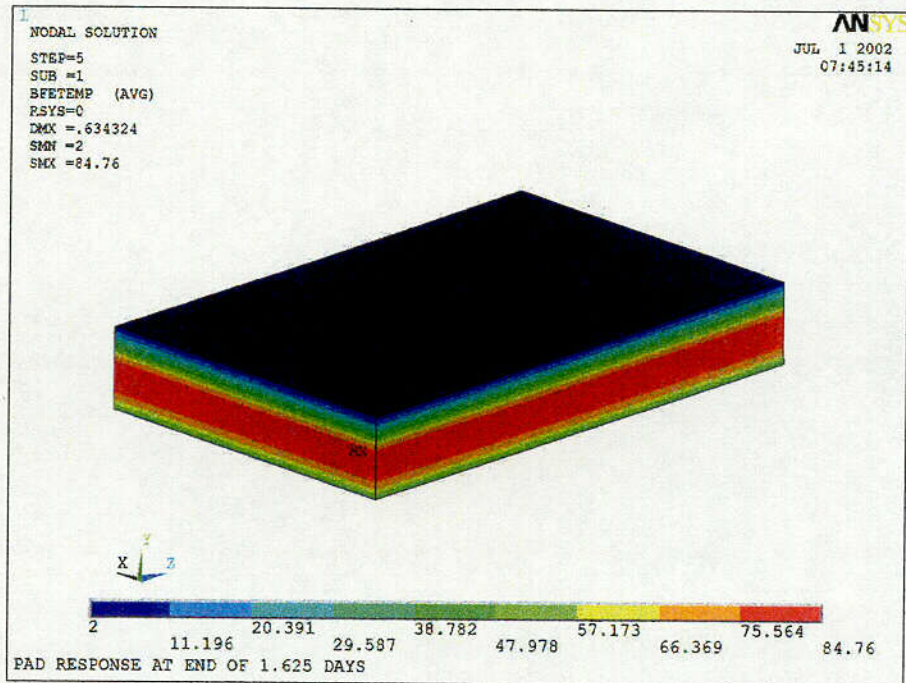


Figure T-5

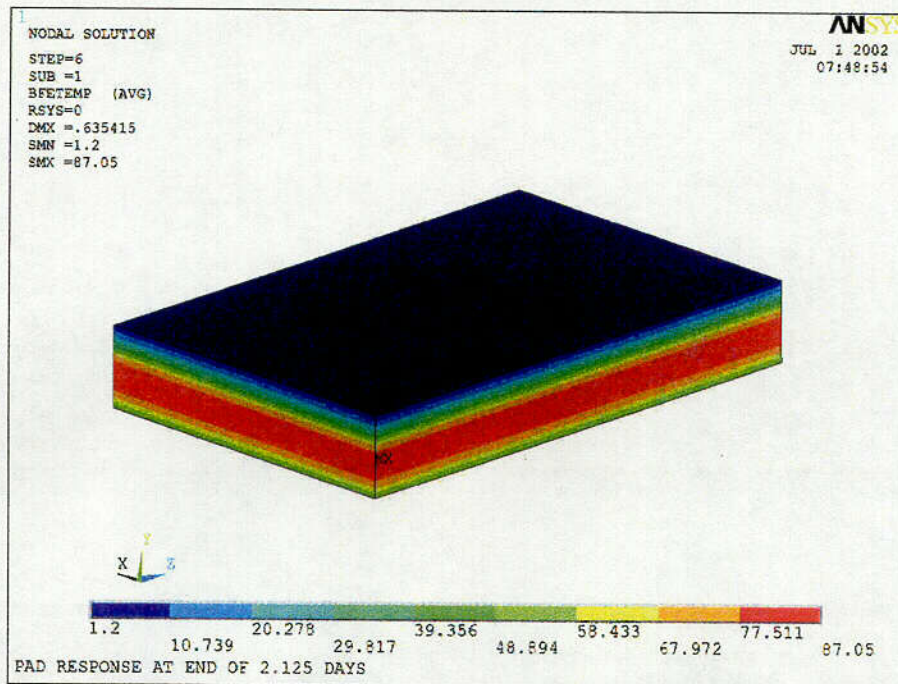


Figure T-6



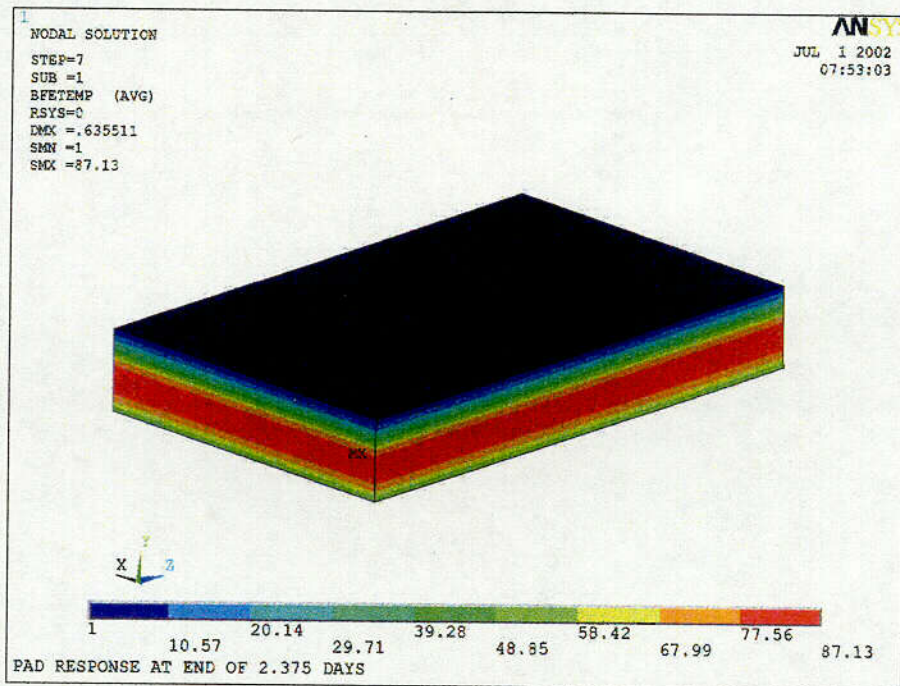


Figure T-7

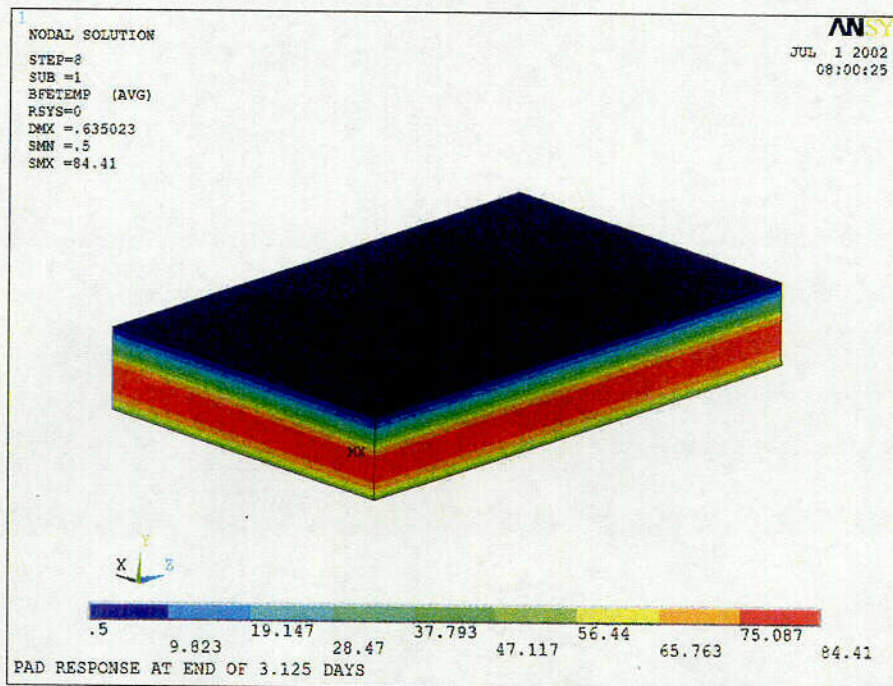


Figure T-8



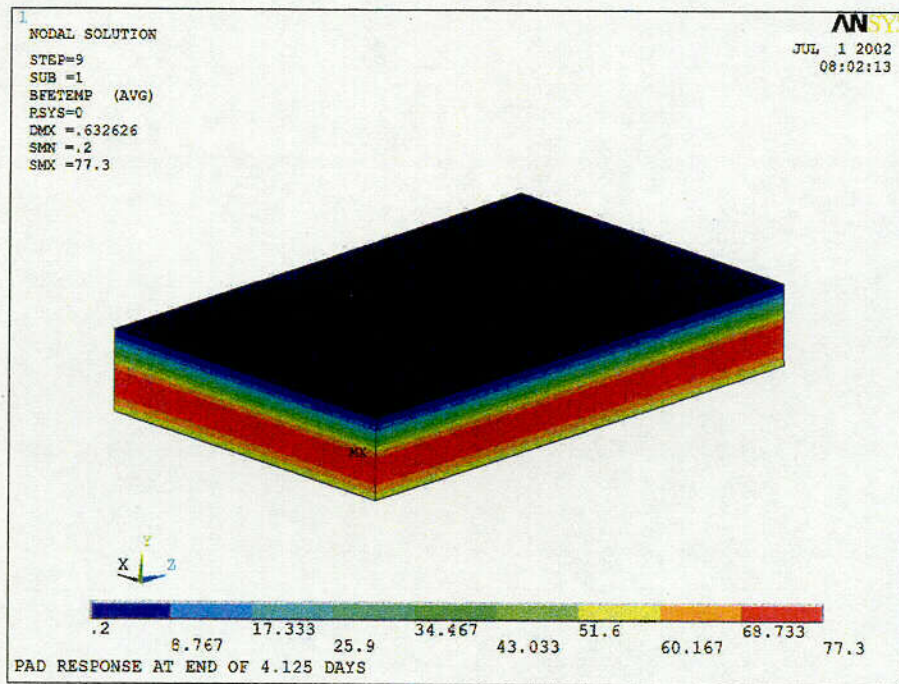


Figure T-9

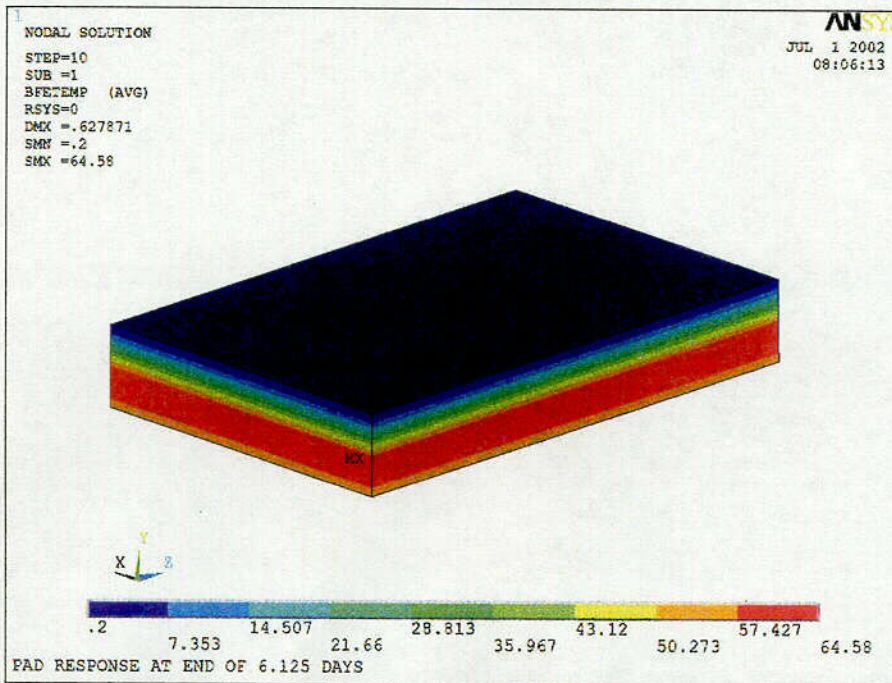


Figure T-10



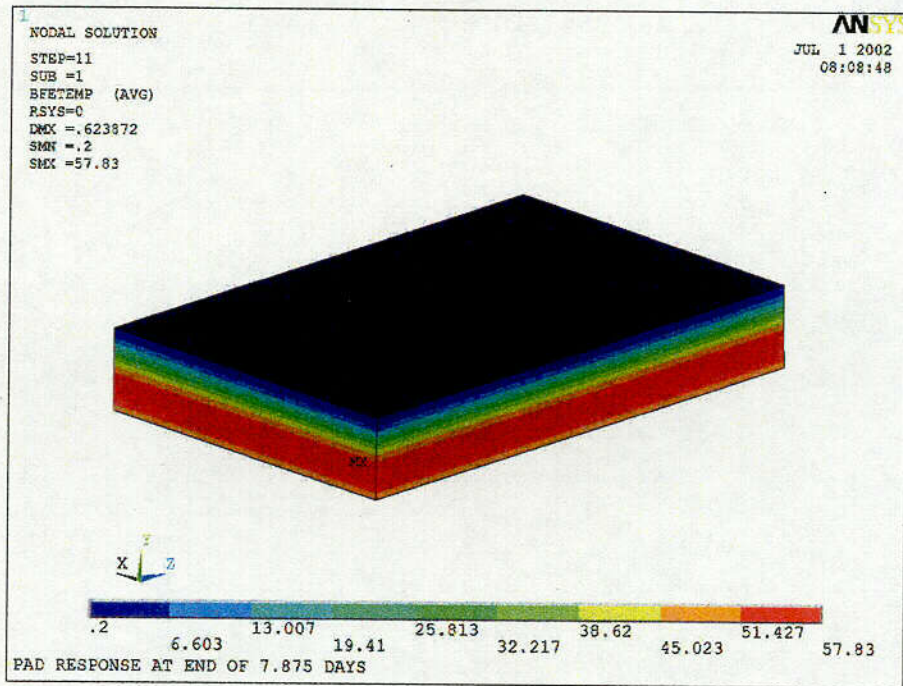
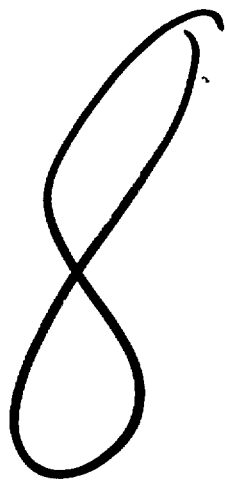


Figure T-11

CO6








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

Originator:   
Date: September 20, 2002

## **Appendix LSPad-TH**

This Appendix presents the ANSYS plots of the pad vertical displacements for the thermal stress analysis for the individual load steps.



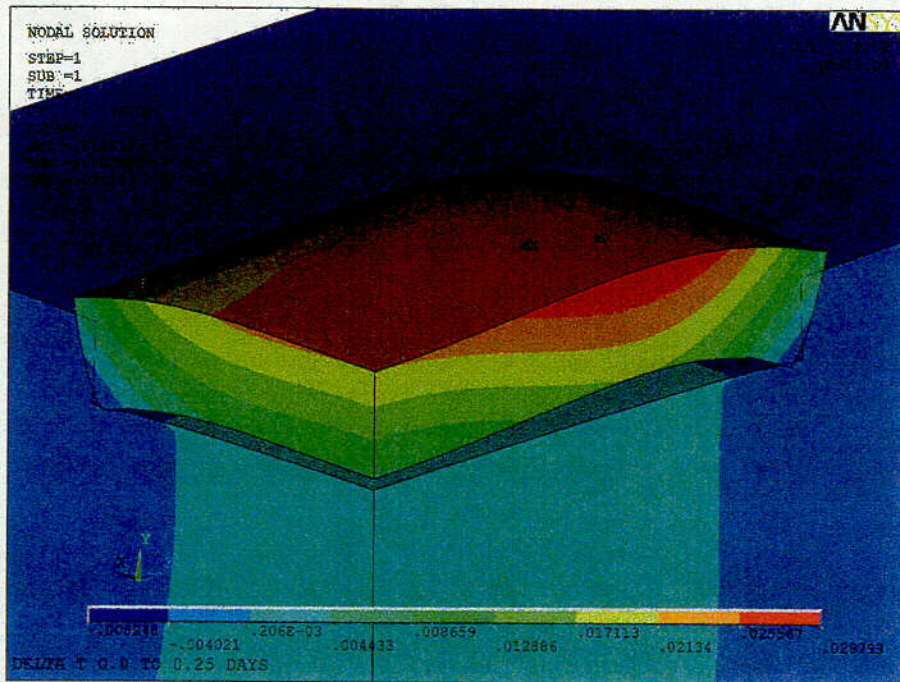


Figure LS-1 – Time 0.00 to 0.25 days

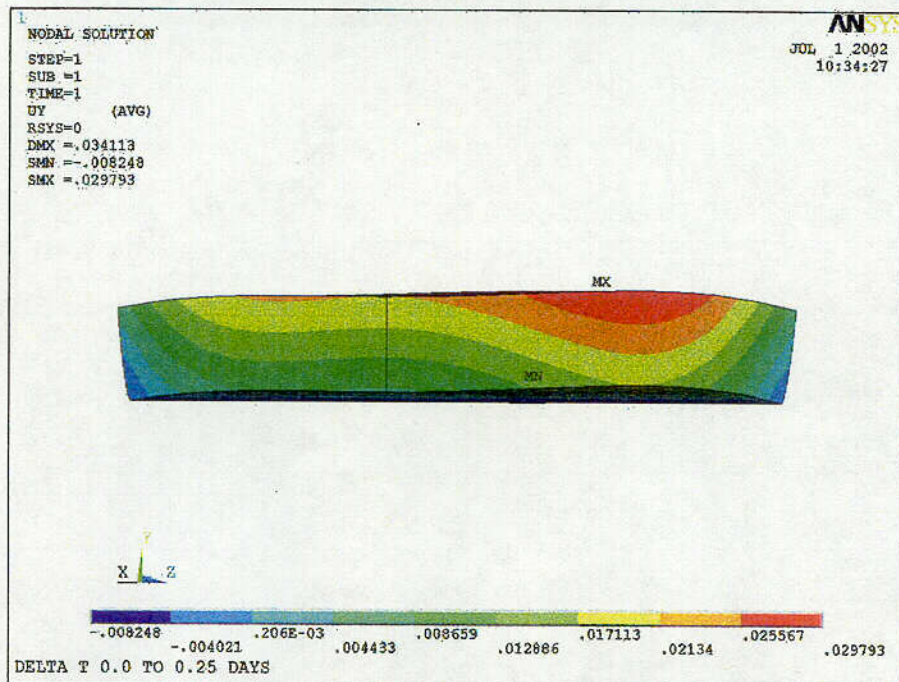


Figure LS-1A - Time 0.00 to 0.25 days



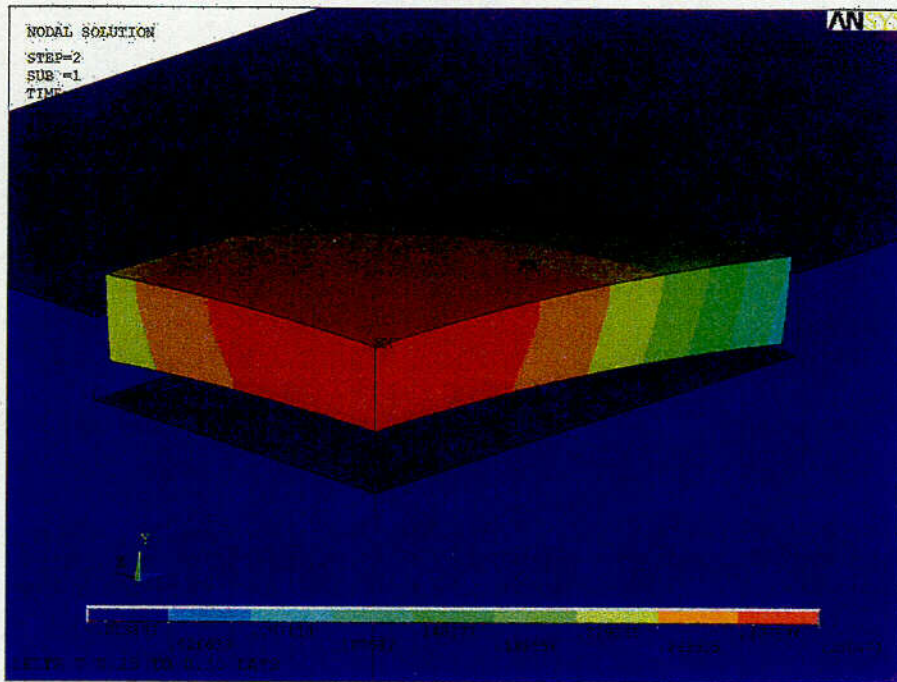


Figure LS-2 – Time 0.25 to 0.50 days

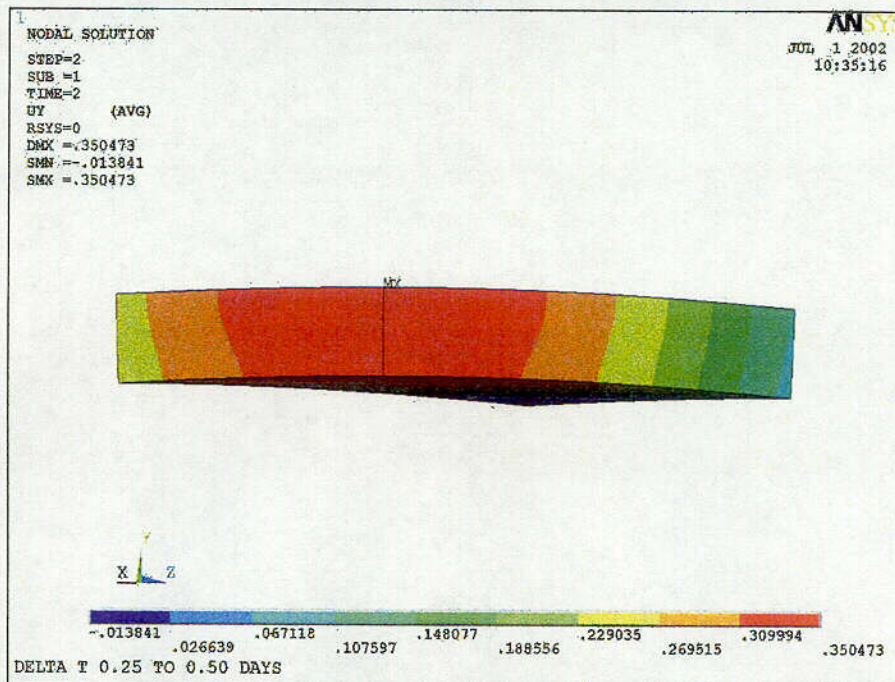


Figure LS-2A – Time 0.25 to 0.50 days

C08



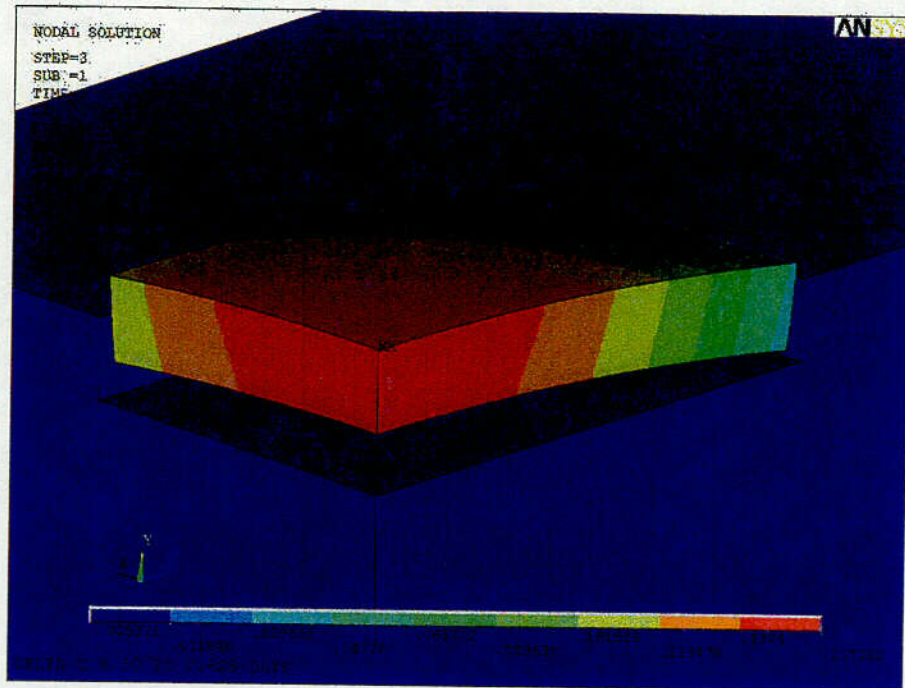


Figure LS-3 – Time 0.50 to 0.625 days

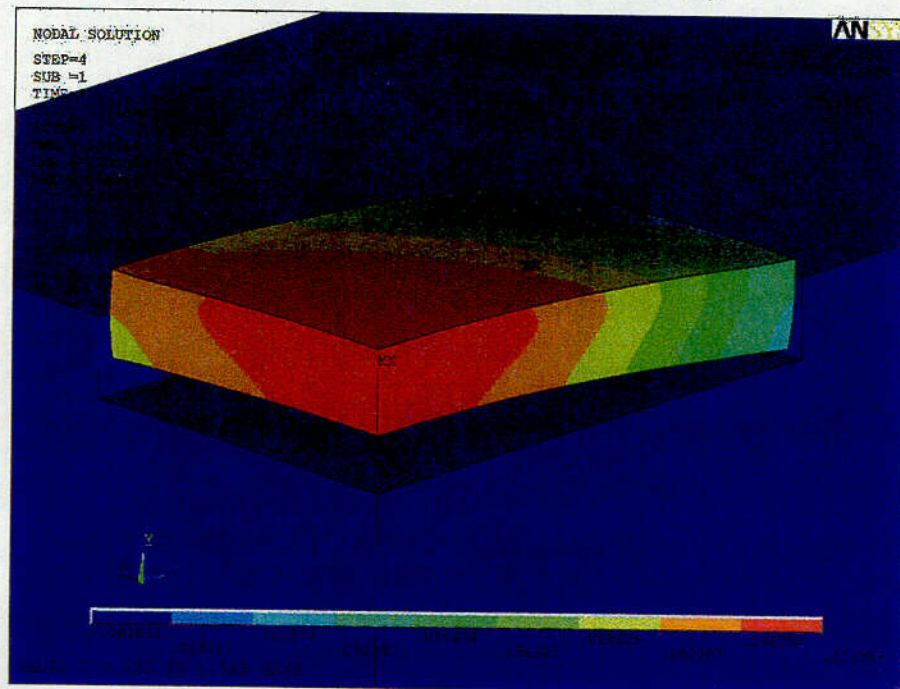


Figure LS-4 – Time 0.625 to 1.125 days

C09



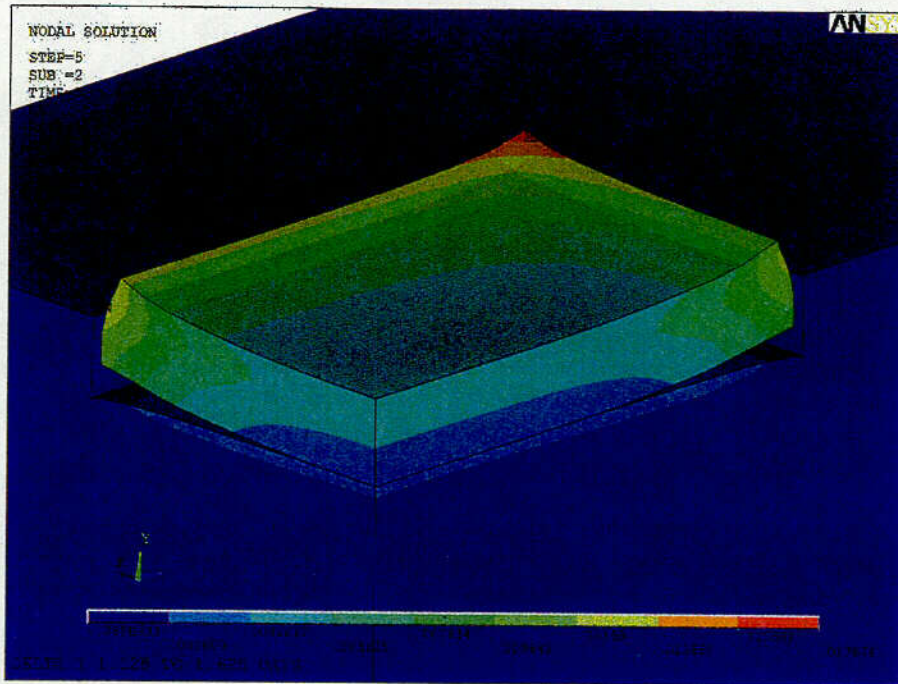


Figure LS-5 – Time 1.125 to 1.625 days

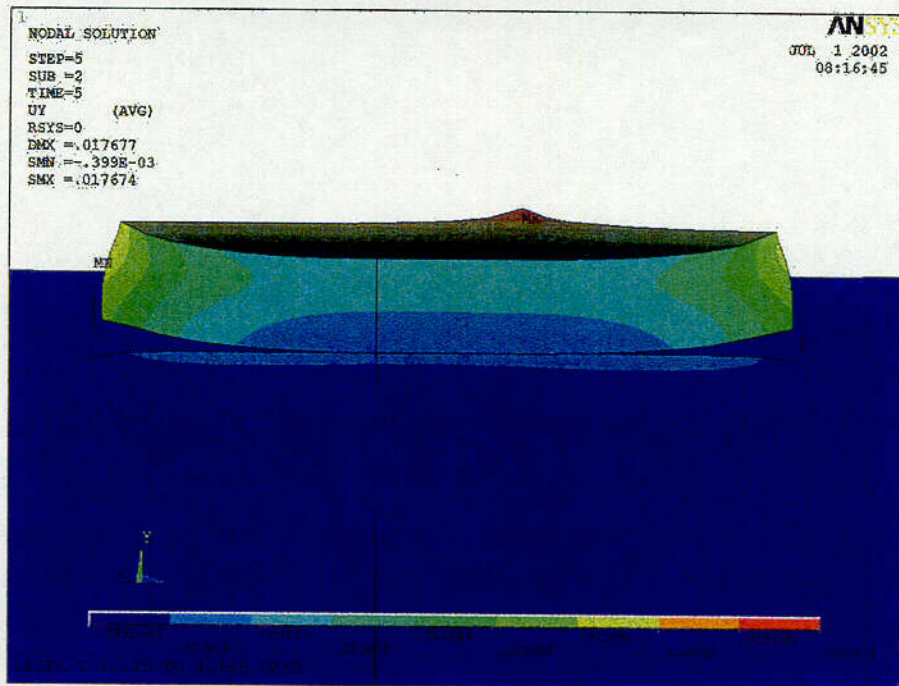


Figure LS-5A – Time 1.125 to 1.625 days



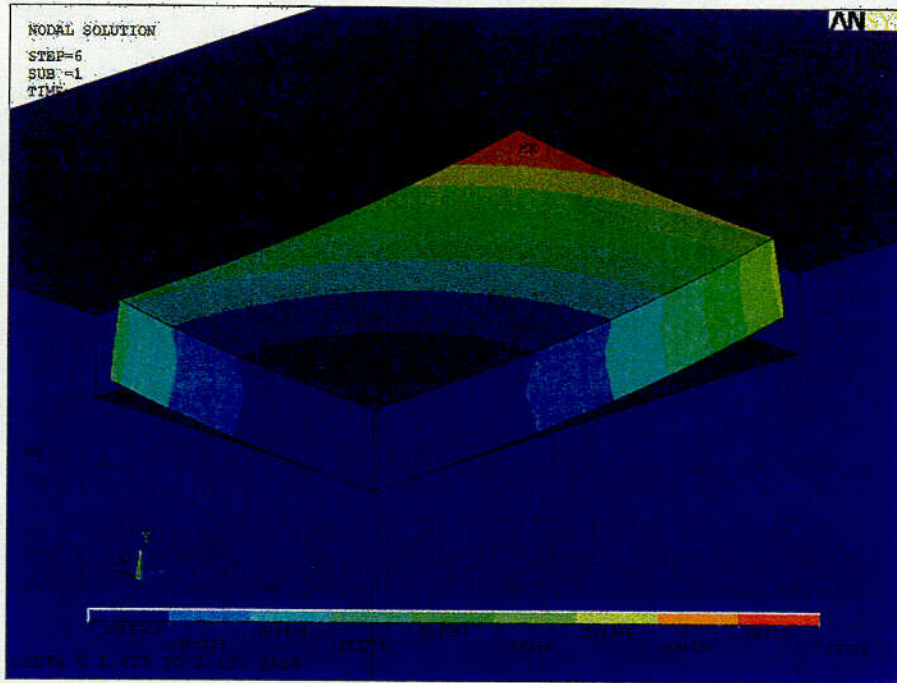


Figure LS-6 – Time 1.625 to 2.125 days

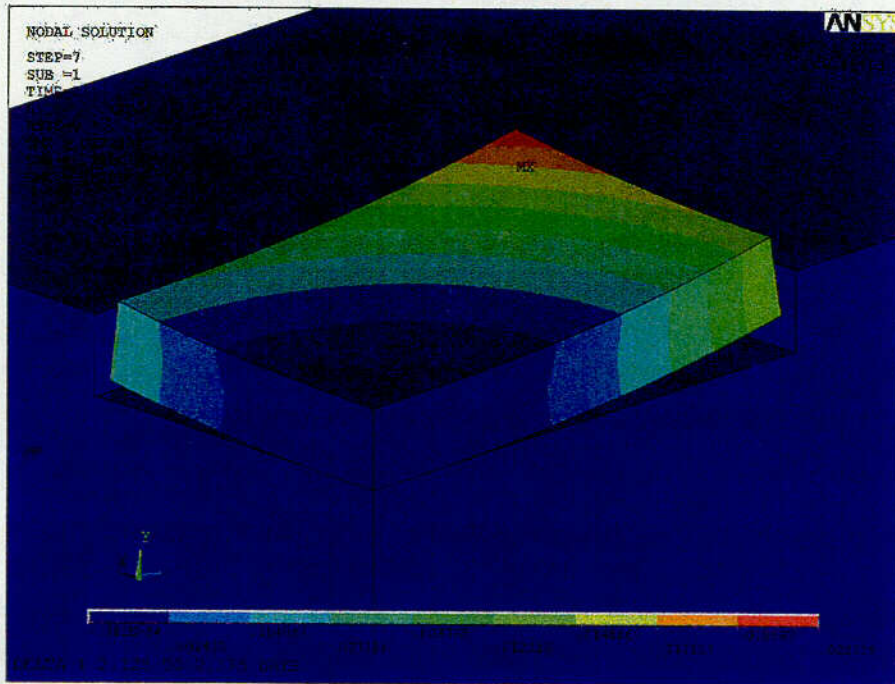


Figure LS-7 – Time 2.125 to 2.375 days



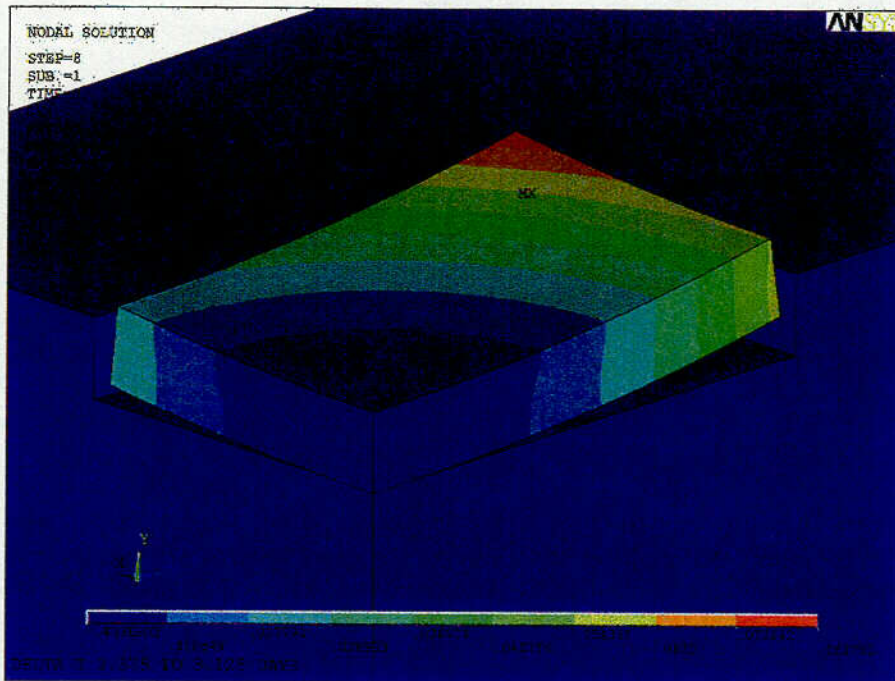


Figure LS-8 – Time 2.375 to 3.125 days

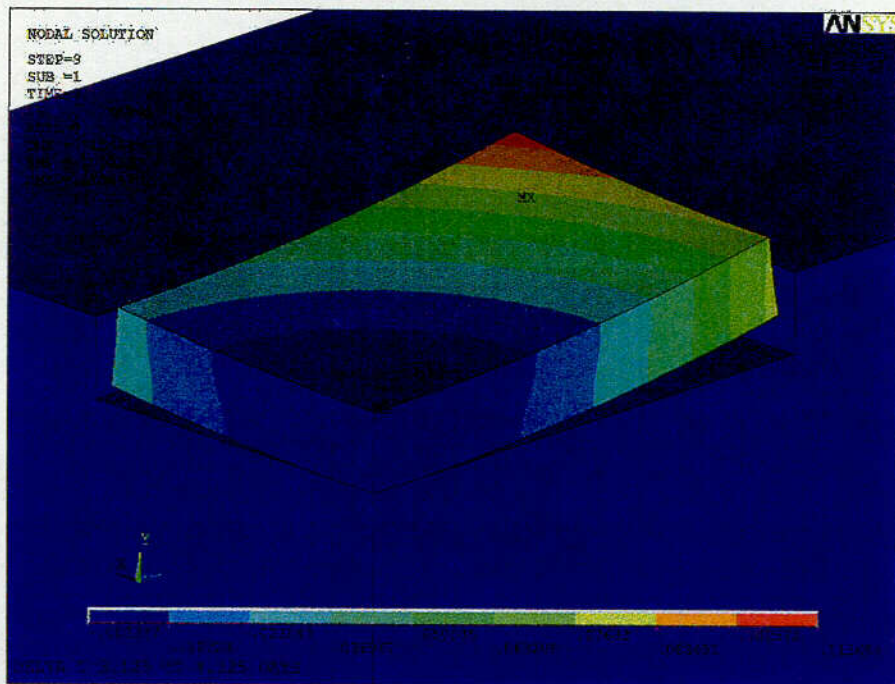


Figure LS-9 – Time 3.125 to 4.125 days



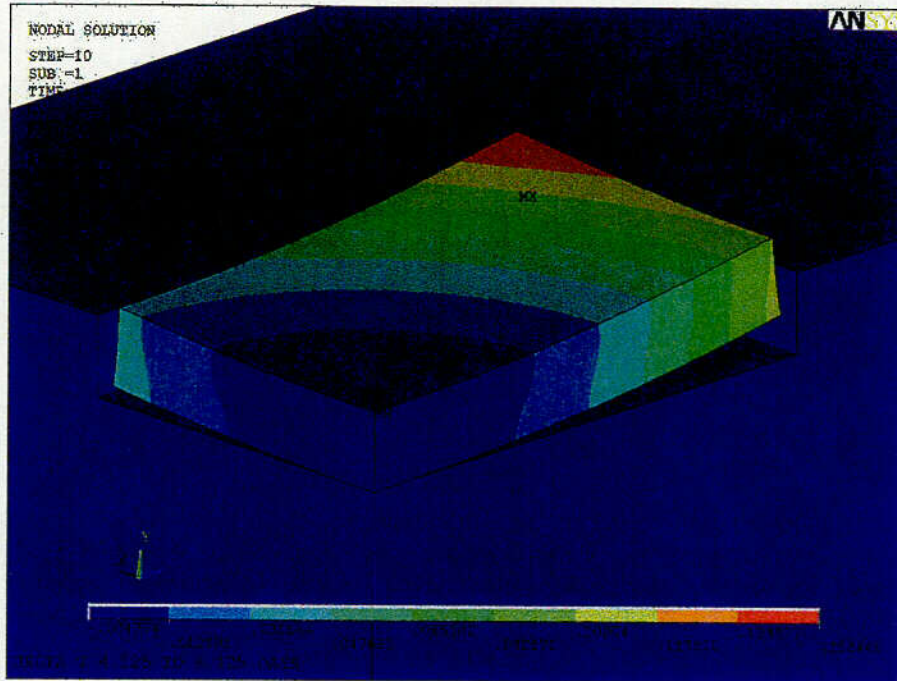


Figure LS-10 – Time 4.125 to 6.125 days

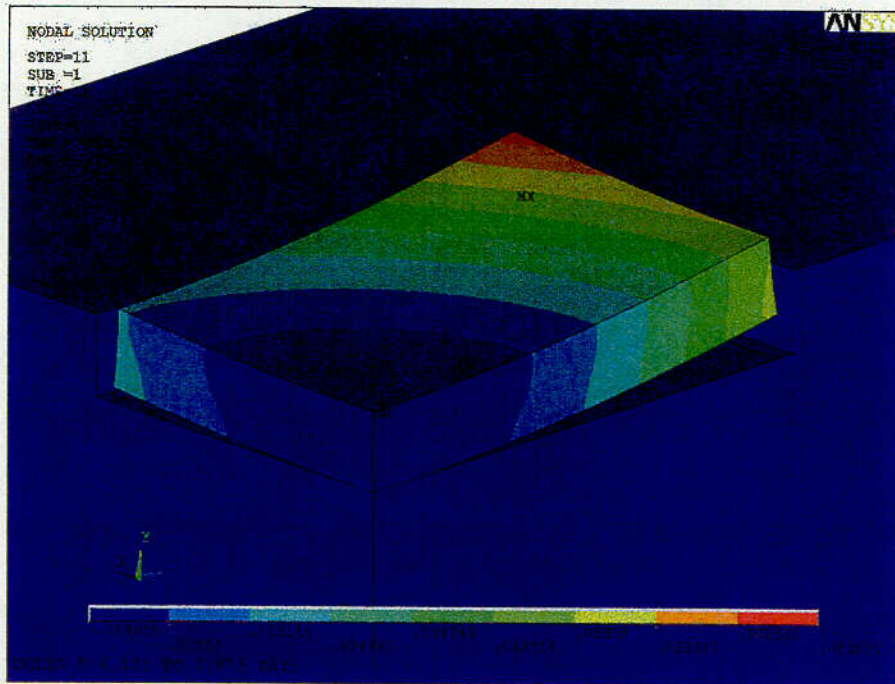


Figure LS-11 – Time 6.125 to 7.875 days

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

Originator:

*S. C. Tumminelli*  
S. C. Tumminelli

Date:

September 20, 2002

## **Appendix LCPad-TH**

This Appendix presents the ANSYS plots of the pad vertical displacements for the thermal stress analysis summed Load Cases.

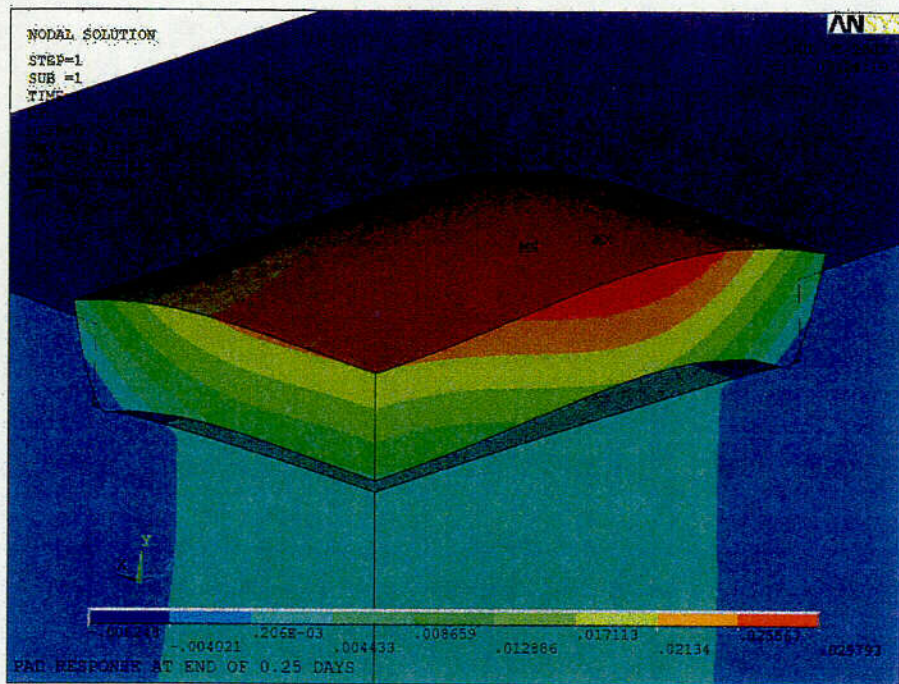


Figure LC-1 – Time 0.25 days

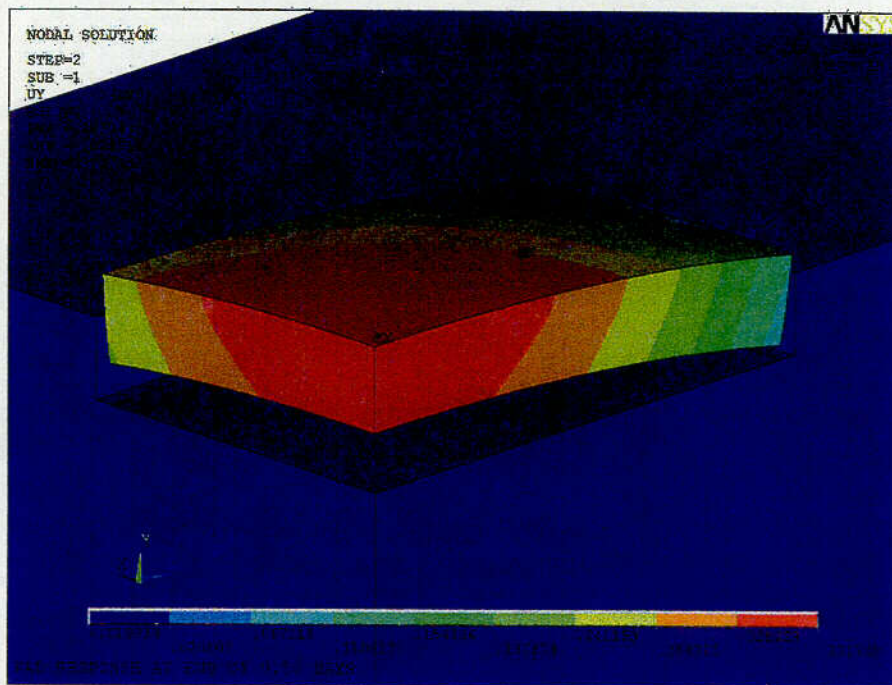


Figure LC-2 – Time 0.50 days



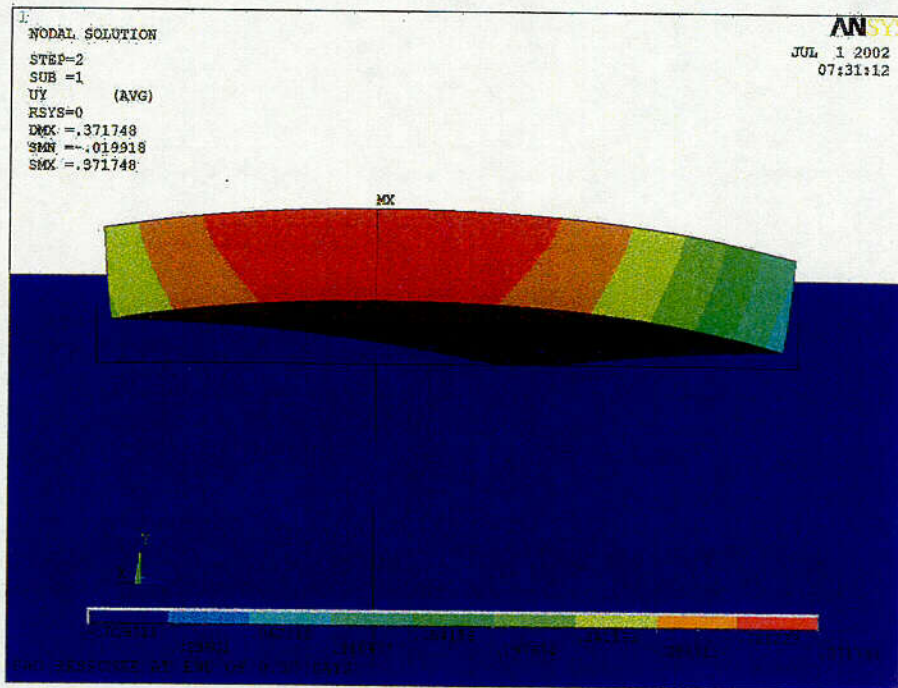


Figure LC-2A – Time 0.50 days

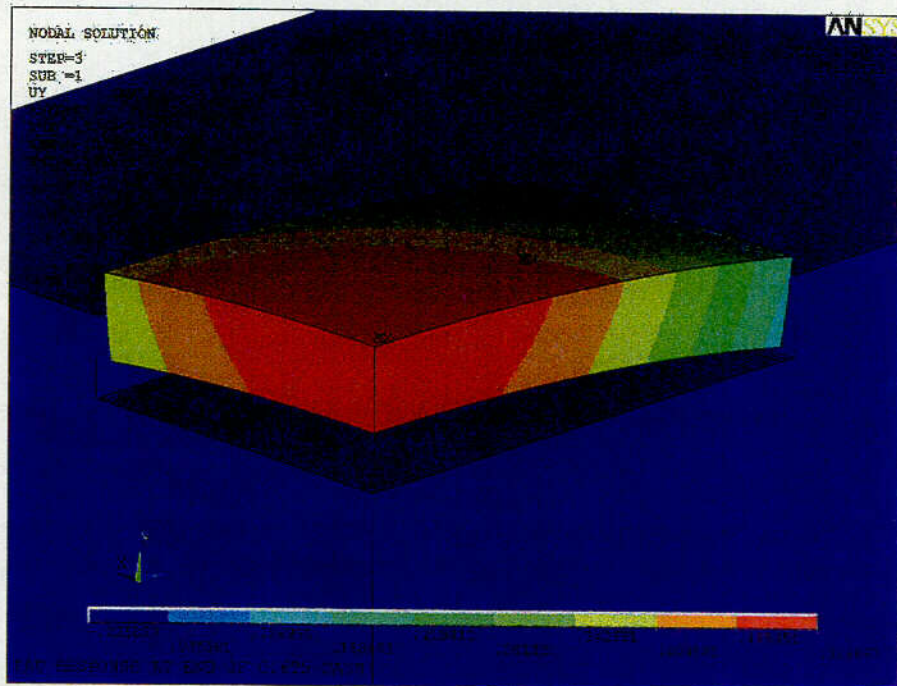


Figure LC-3 – Time 0.625 days



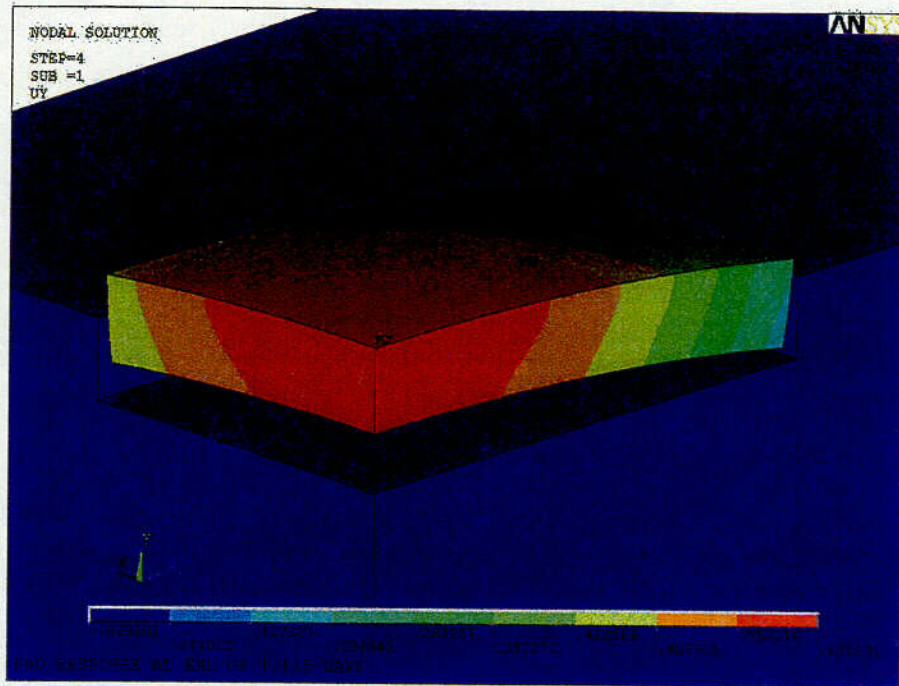


Figure LC-4 – Time 1.125 days

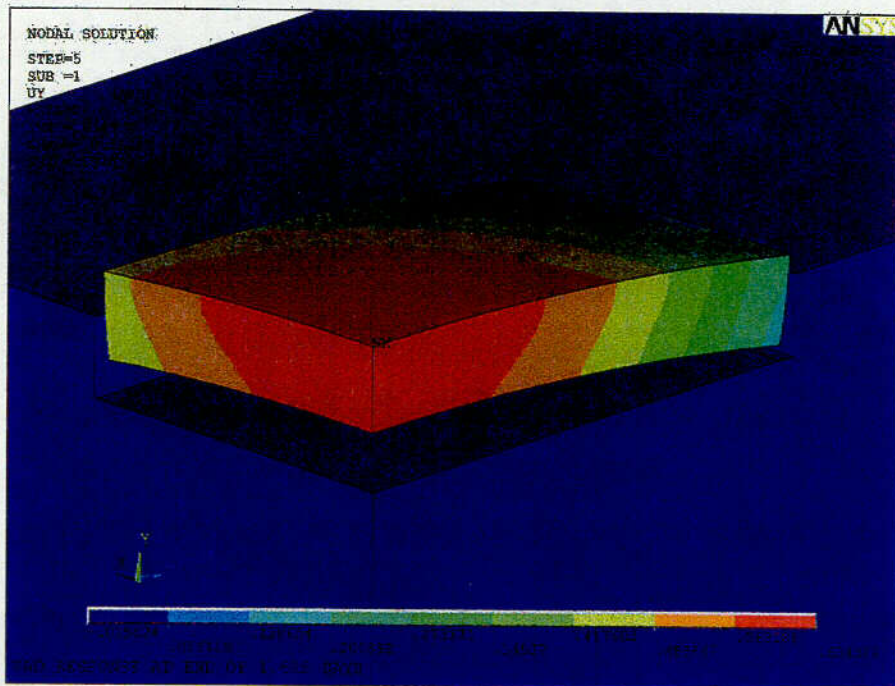


Figure LC-5 – Time 1.625 days



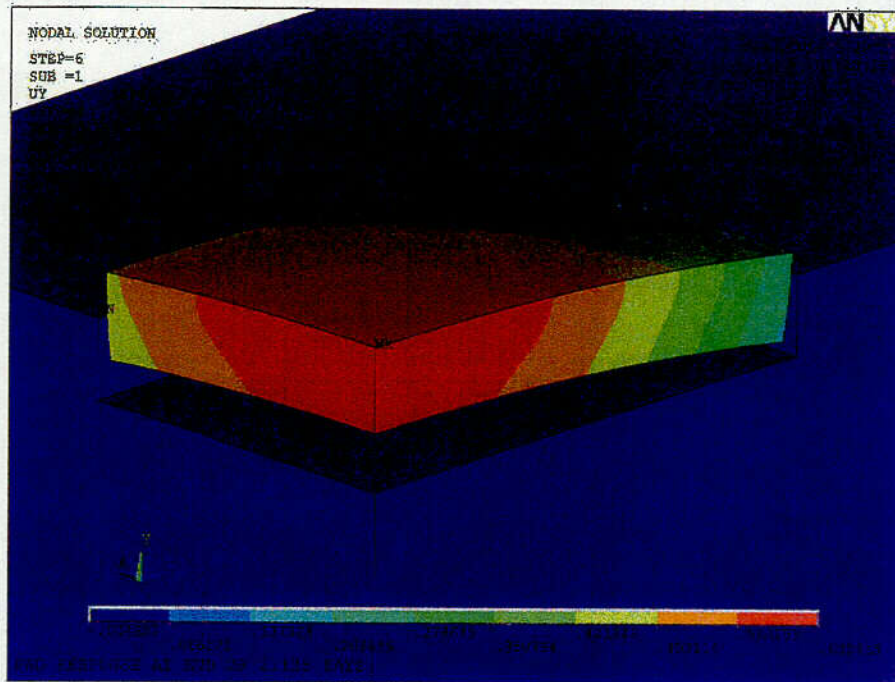


Figure LC-6 – Time 2.125 days

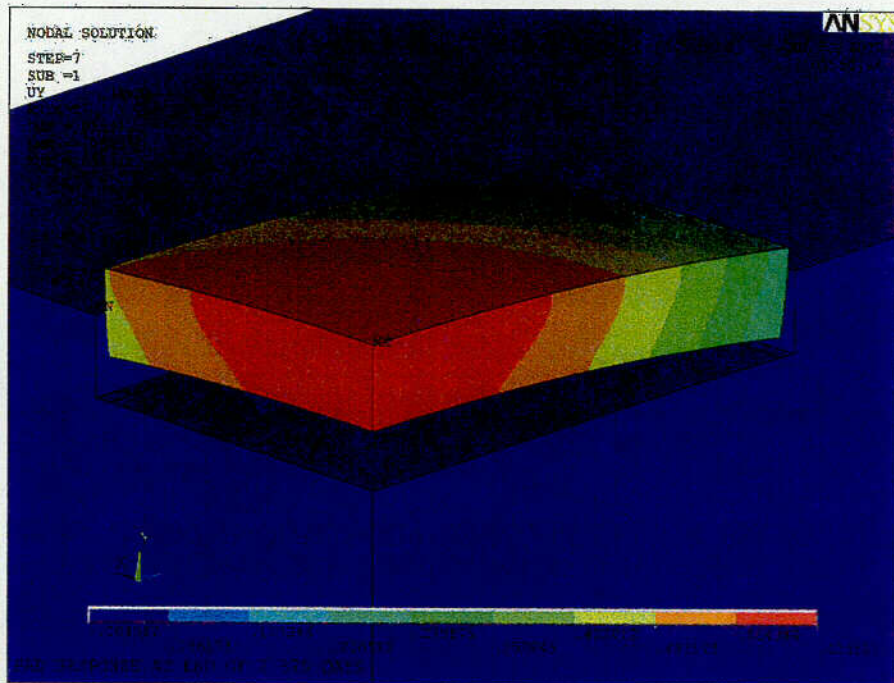


Figure LC-7 – Time 2.375 days



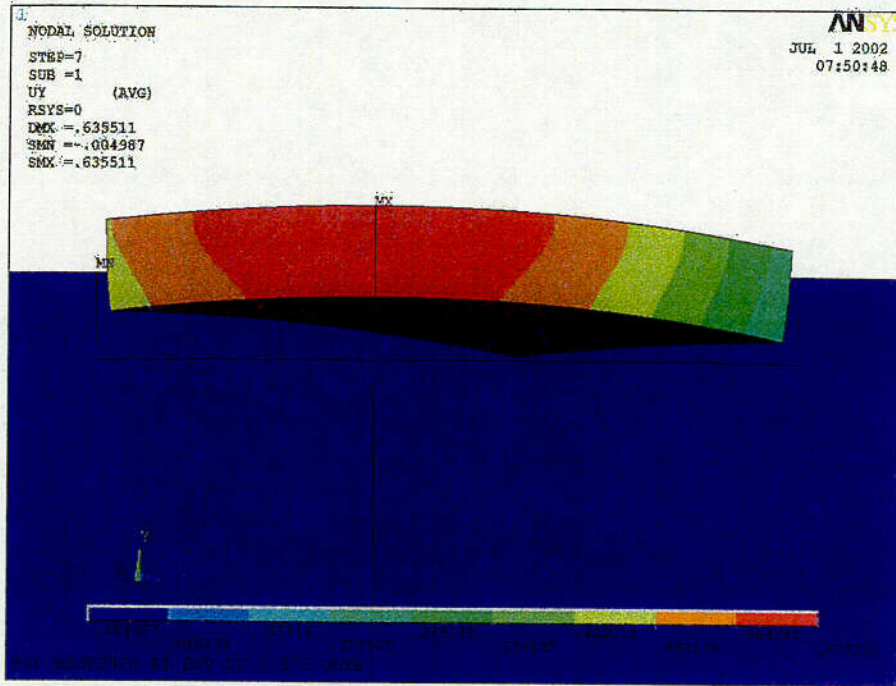


Figure LC-7A – Time 2.375 days

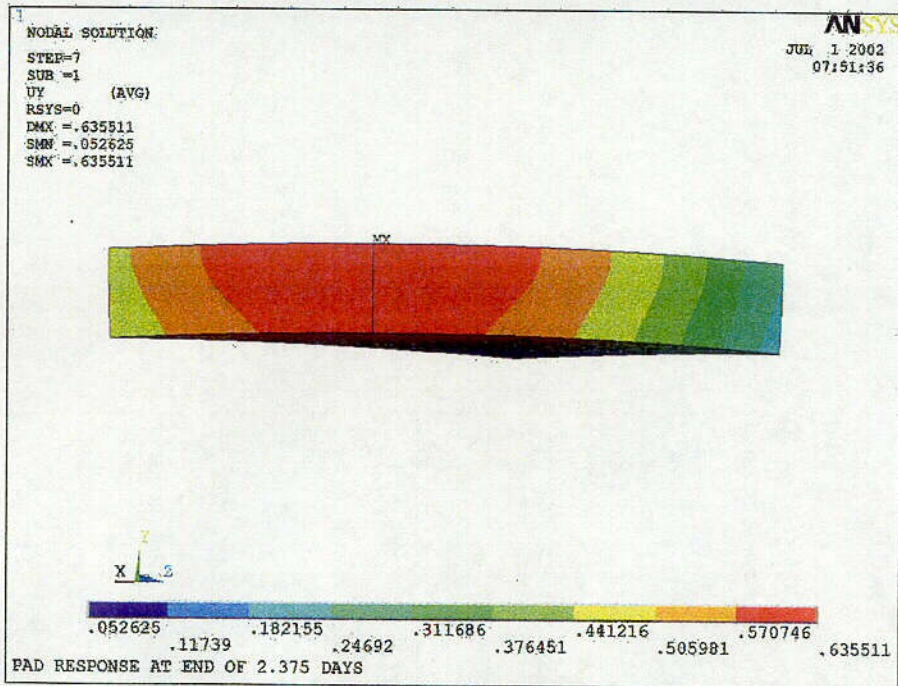


Figure LC-7B – Time 2.375 days



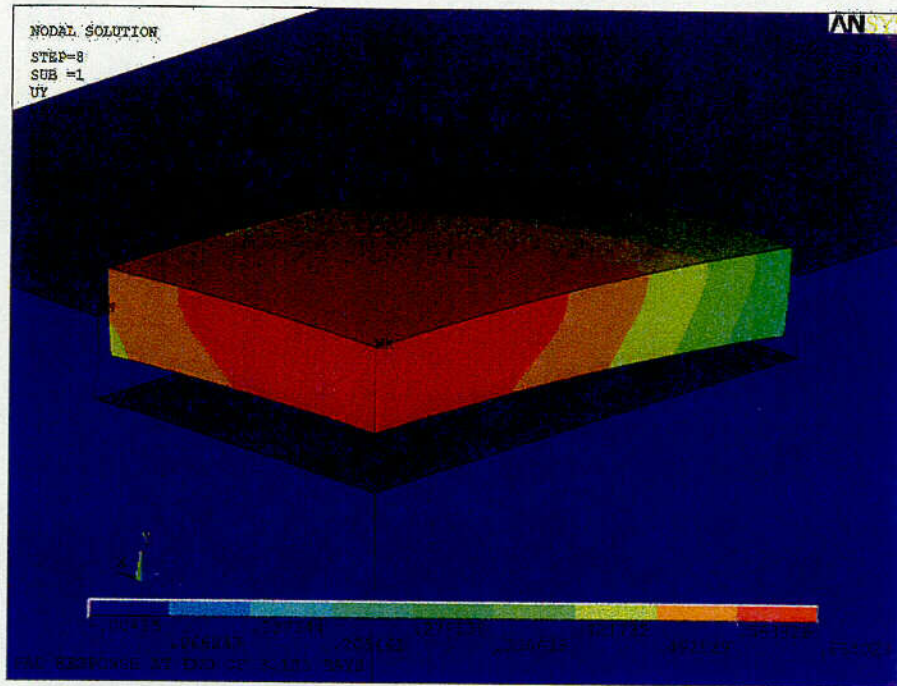


Figure LC- 8 – Time 3.125 days

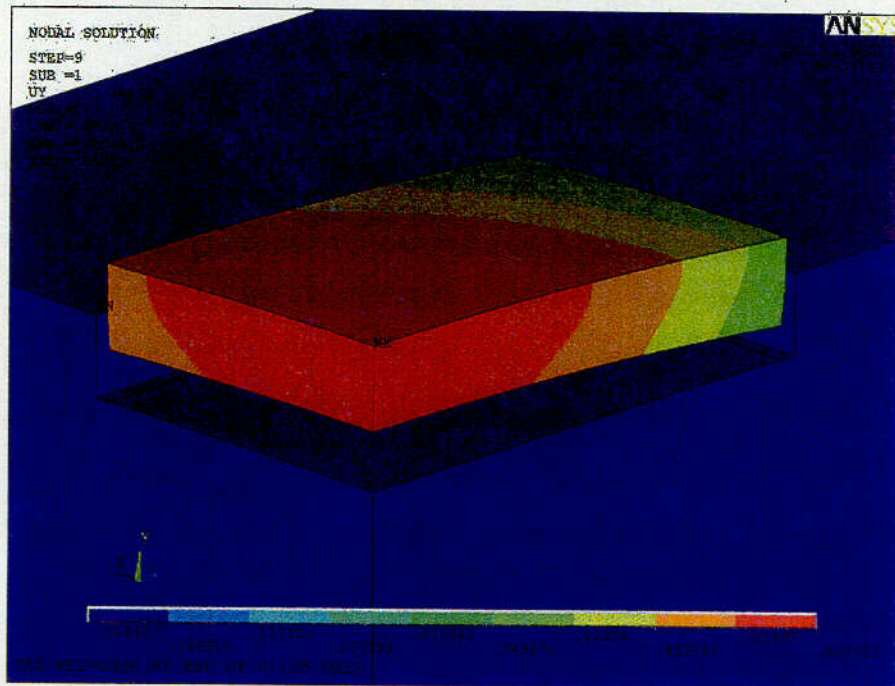


Figure LC-9 – Time 4.125 days



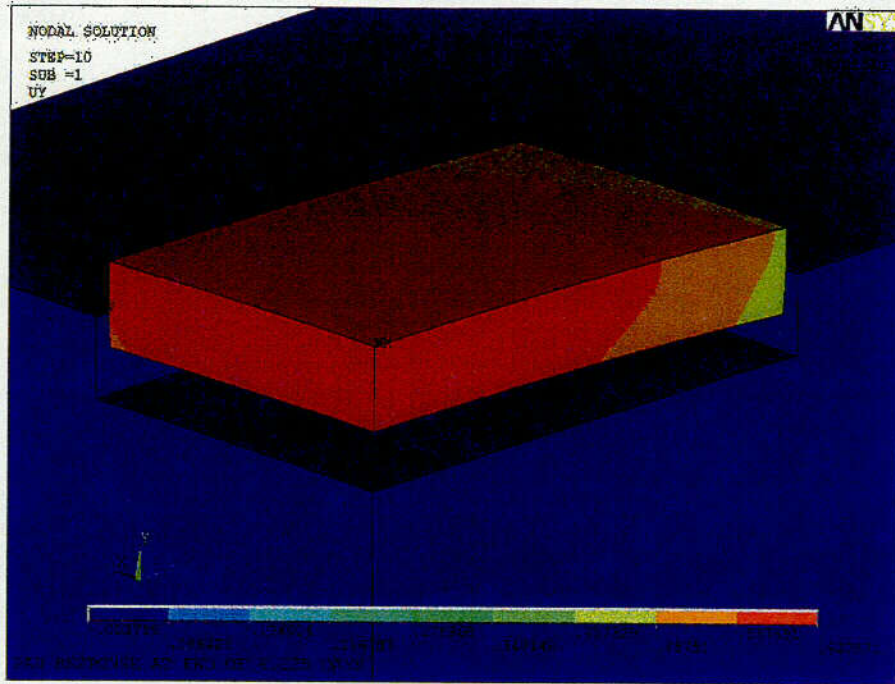


Figure LC-10 – Time 6.125 days

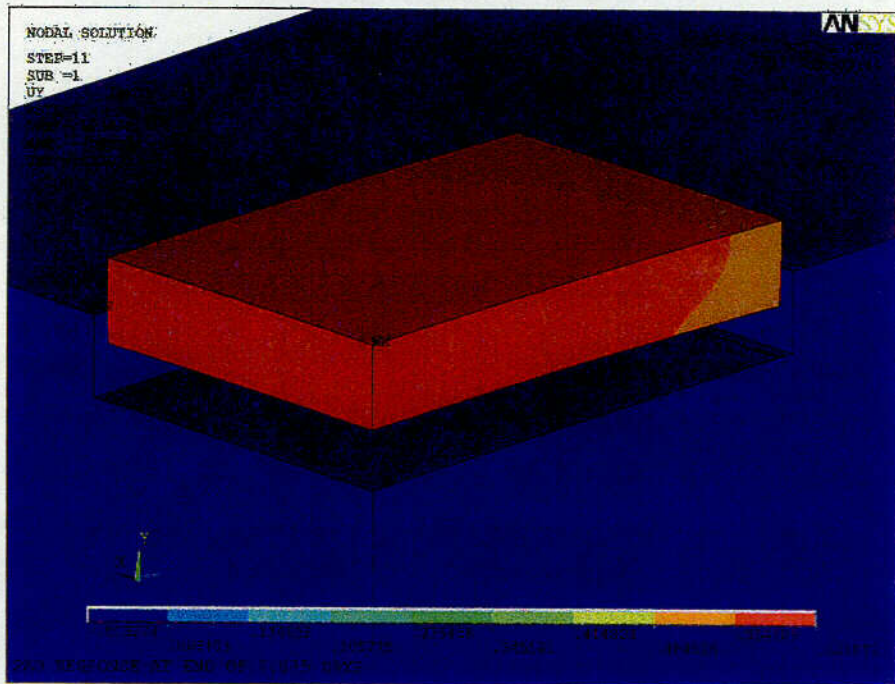


Figure LC-11 – Time 7.875 days




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

Originator:

  
S. C. Tumminelli

Date:

September 20, 2002

## **Appendix STPad-TH**

This Appendix presents the ANSYS plots documenting the pad X and Z stresses for the thermal stress analysis.



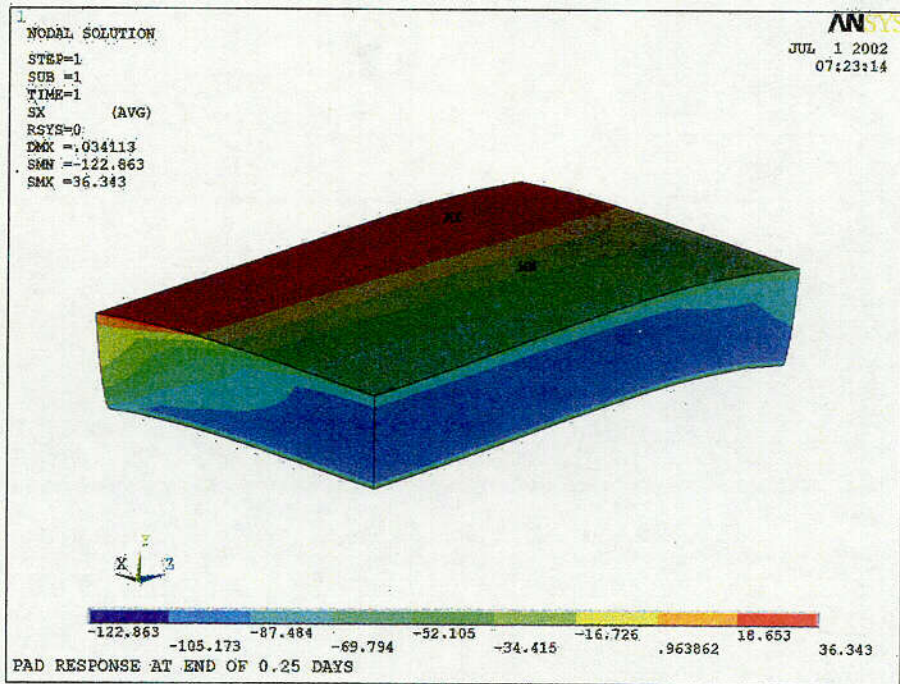


Figure ST-1X

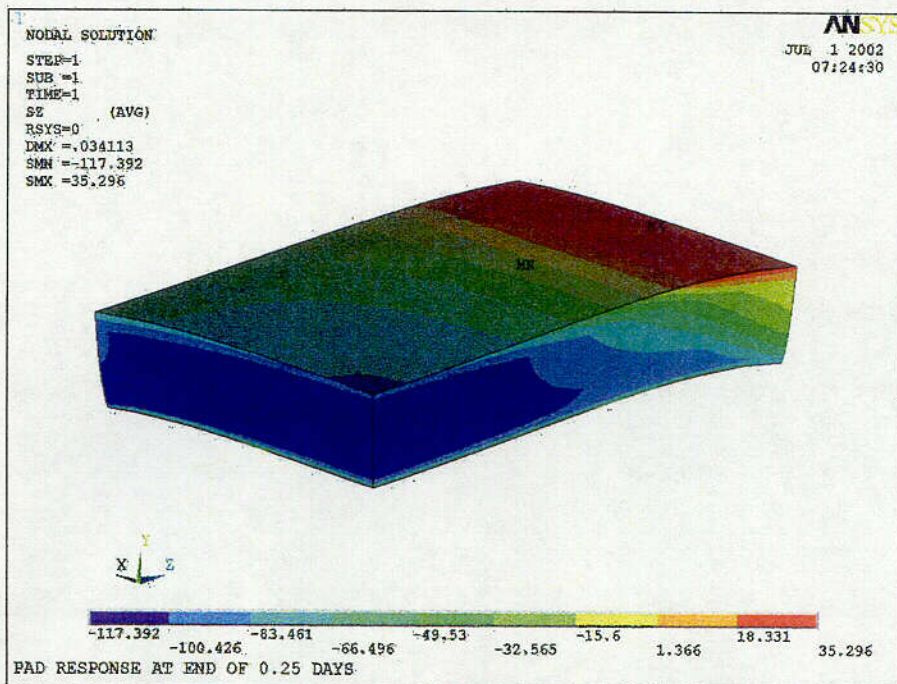


Figure ST-1Z



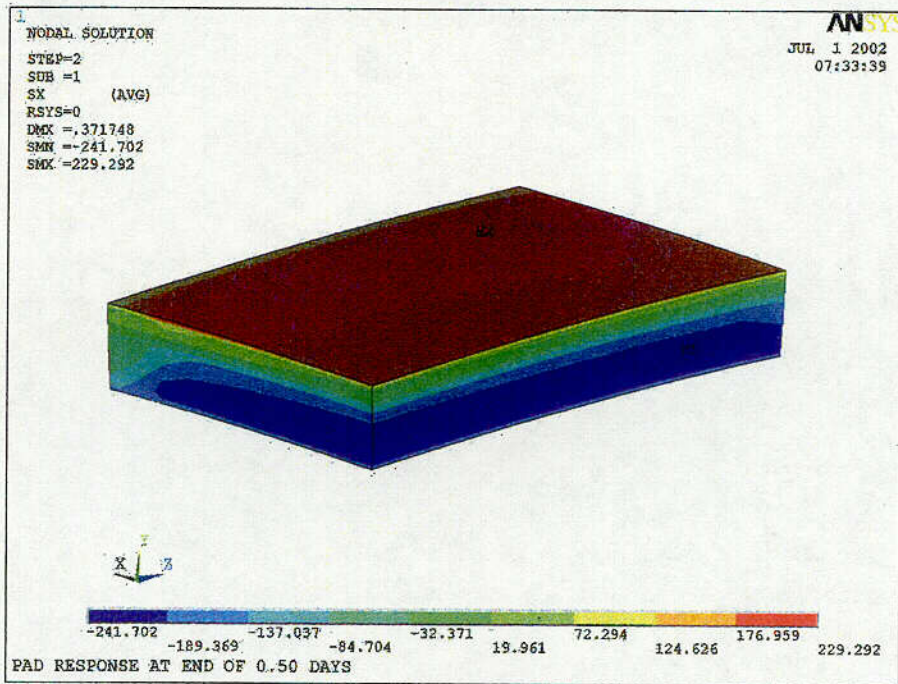


Figure ST-2X

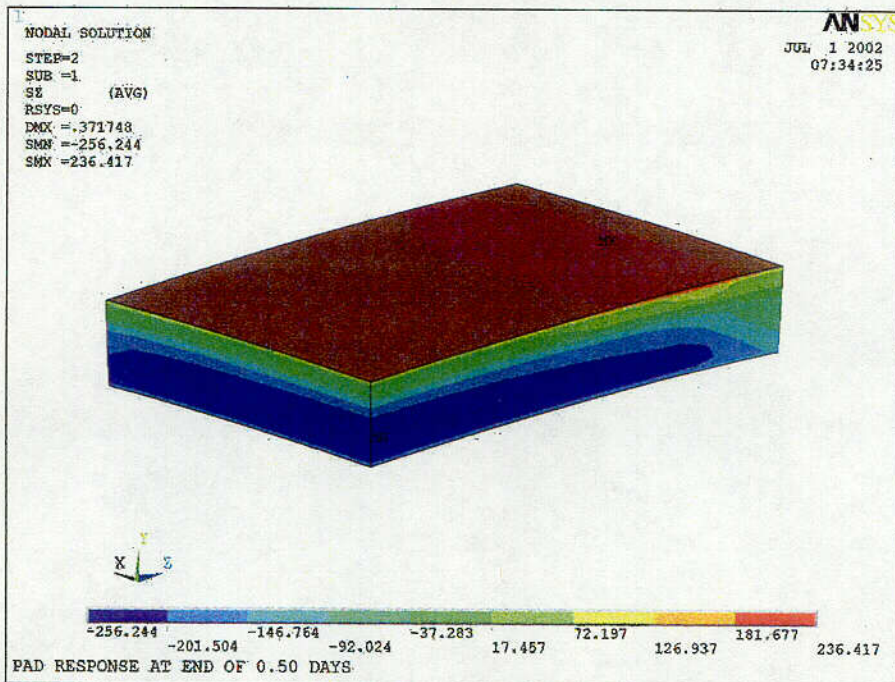


Figure ST-2Z



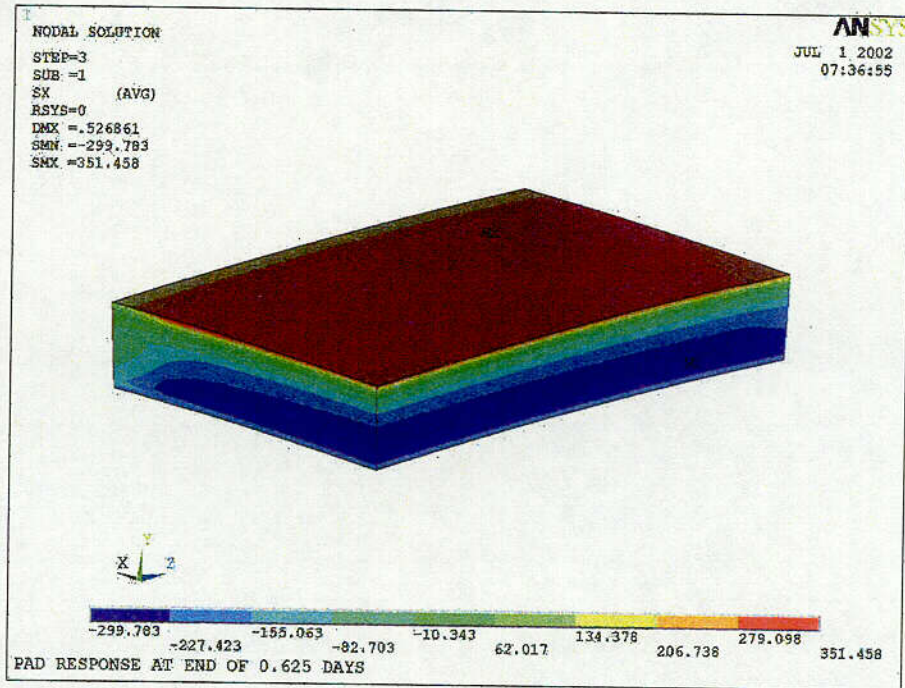


Figure ST-3X

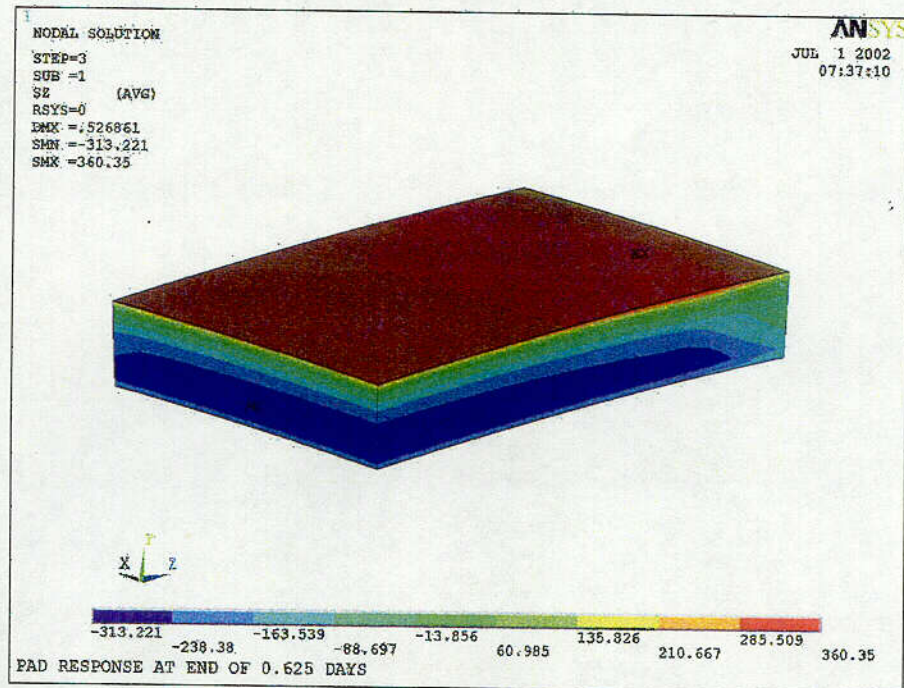


Figure ST-3Z



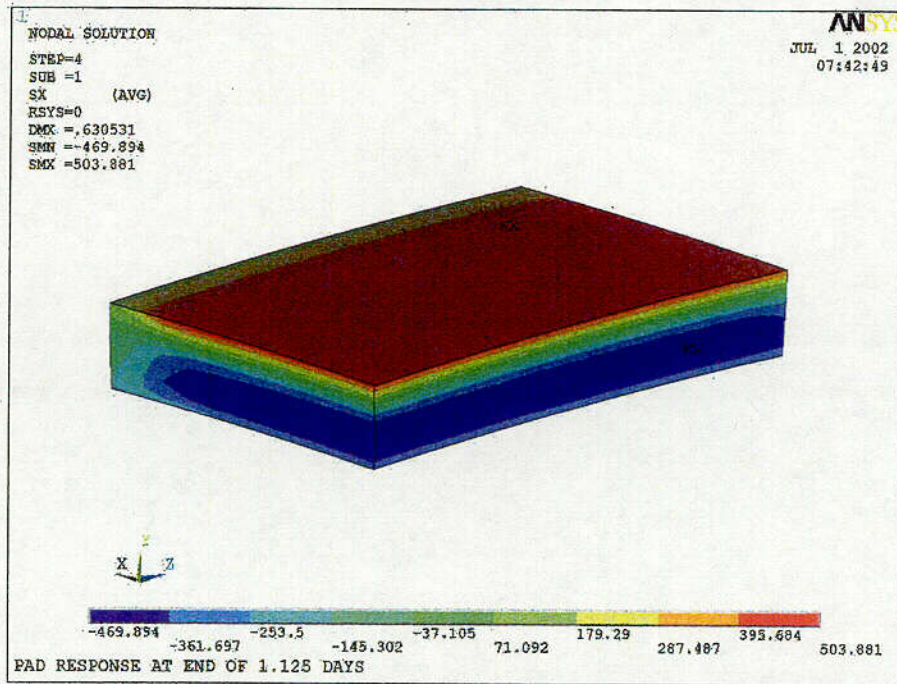


Figure ST-4X

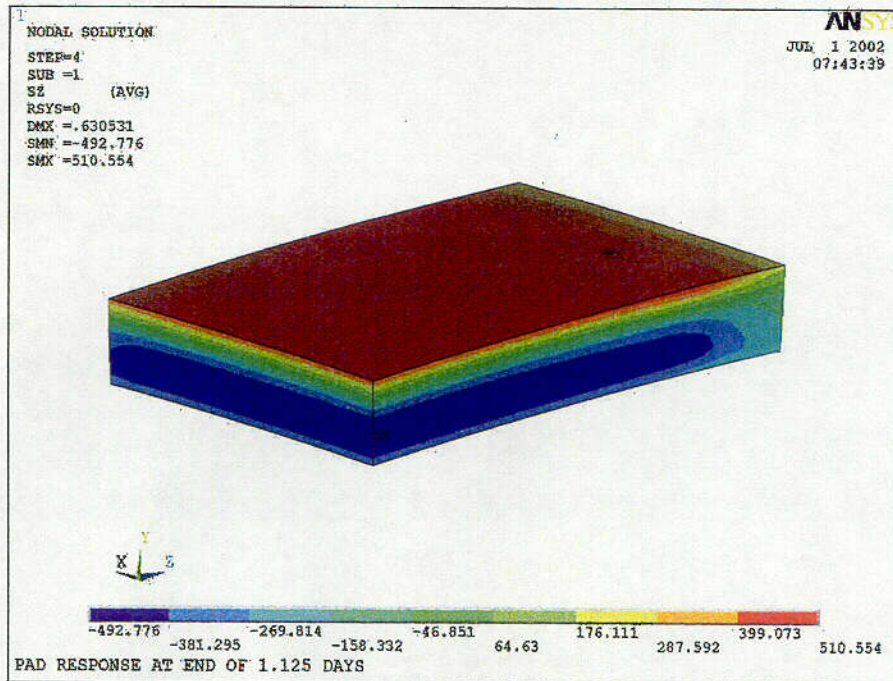


Figure ST-4Z



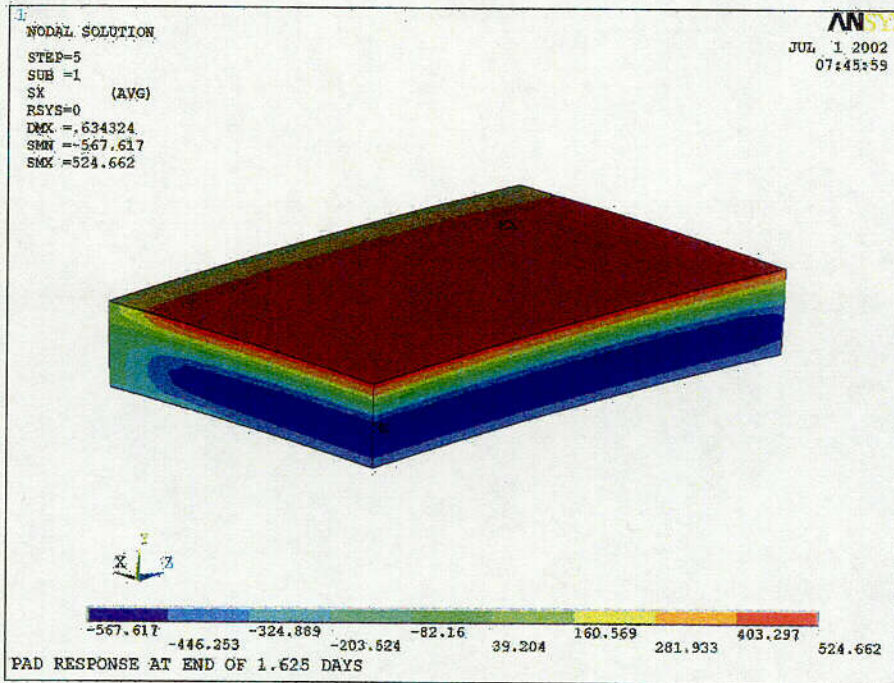


Figure ST-5X

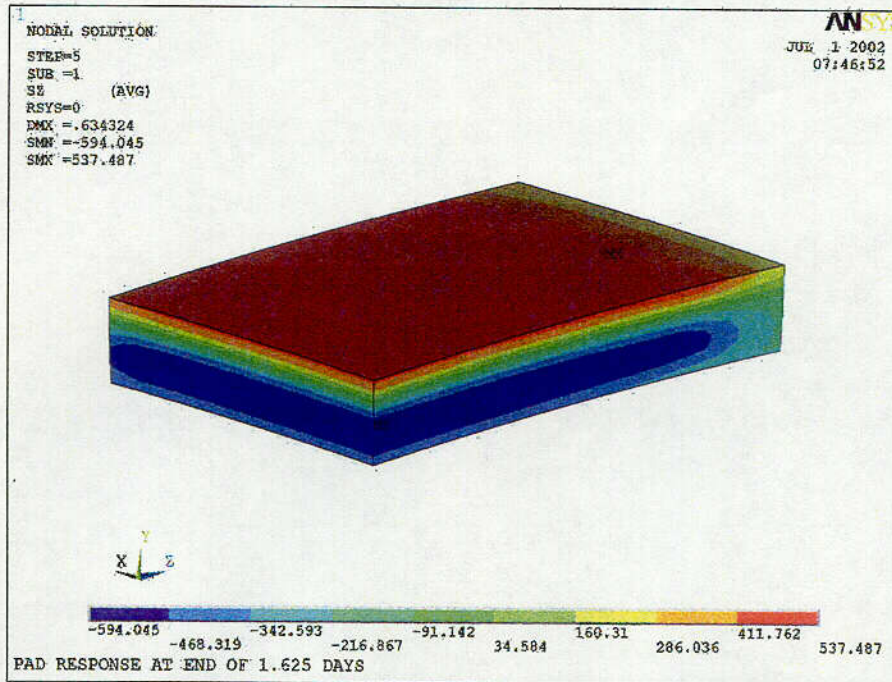


Figure ST-5Z



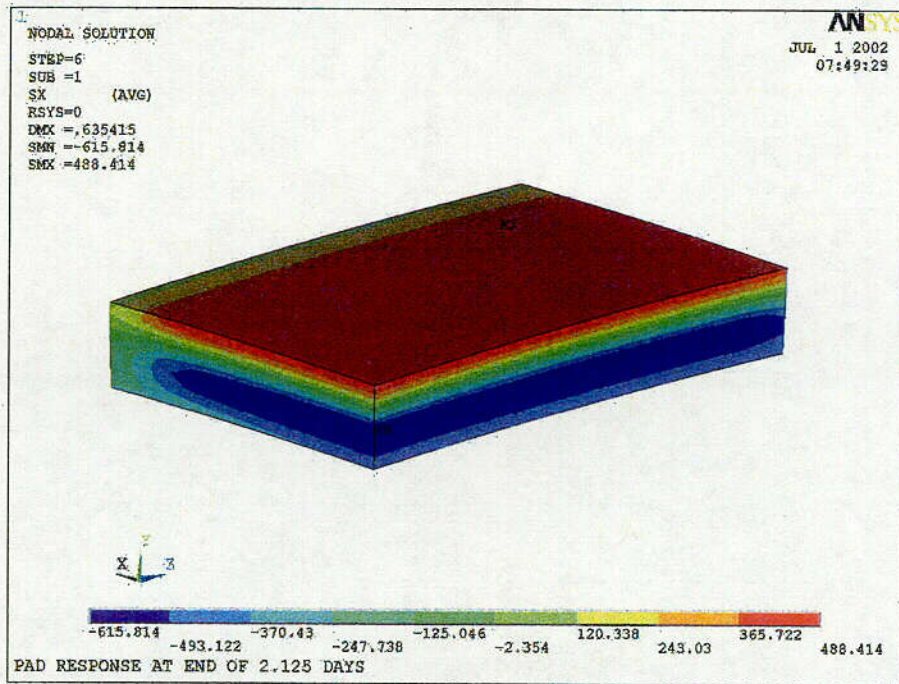


Figure ST-6X

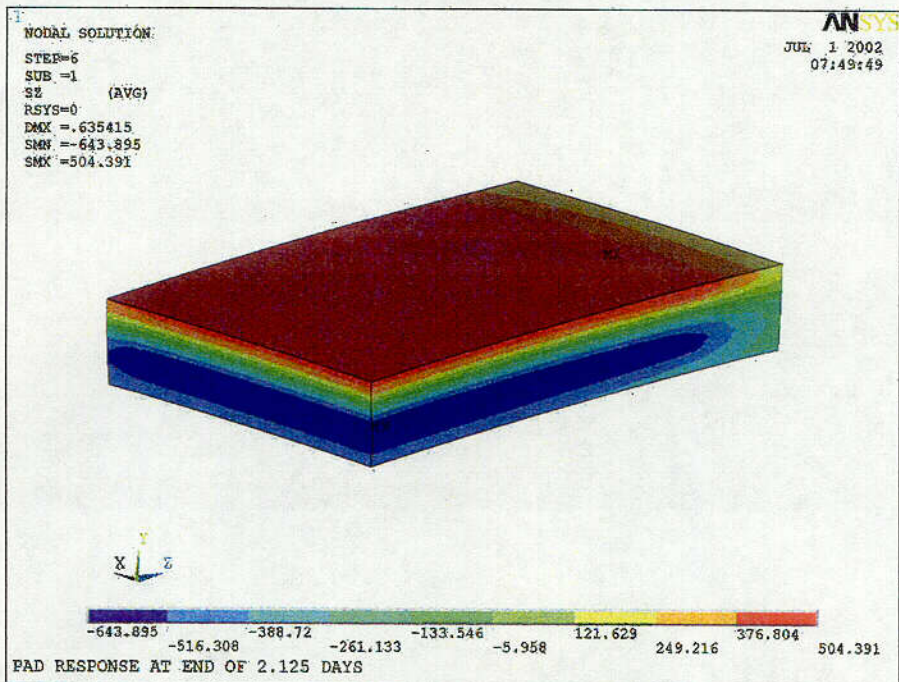


Figure ST-6Z



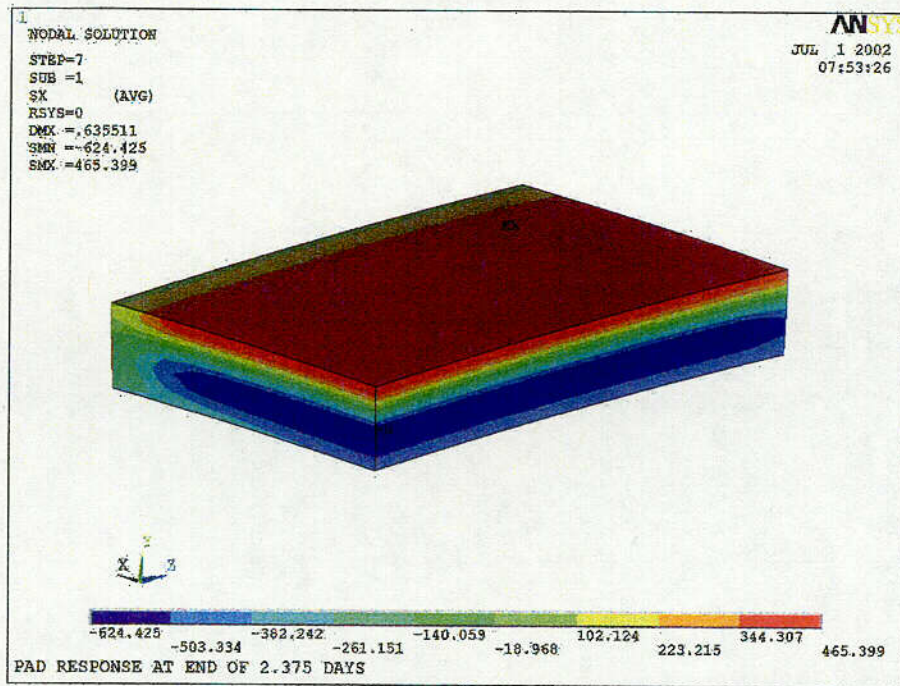


Figure ST-7X

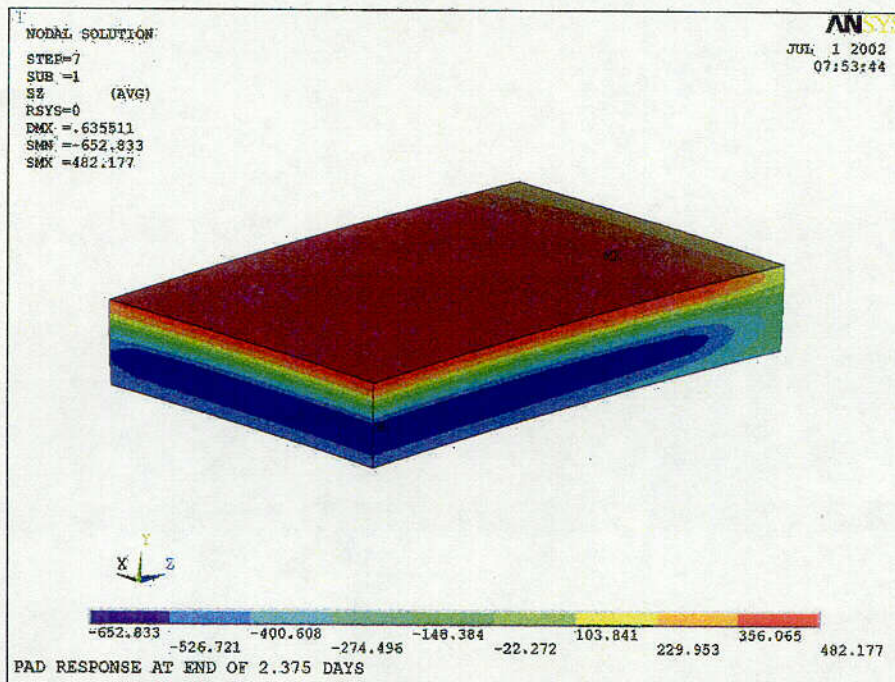


Figure ST-7Z



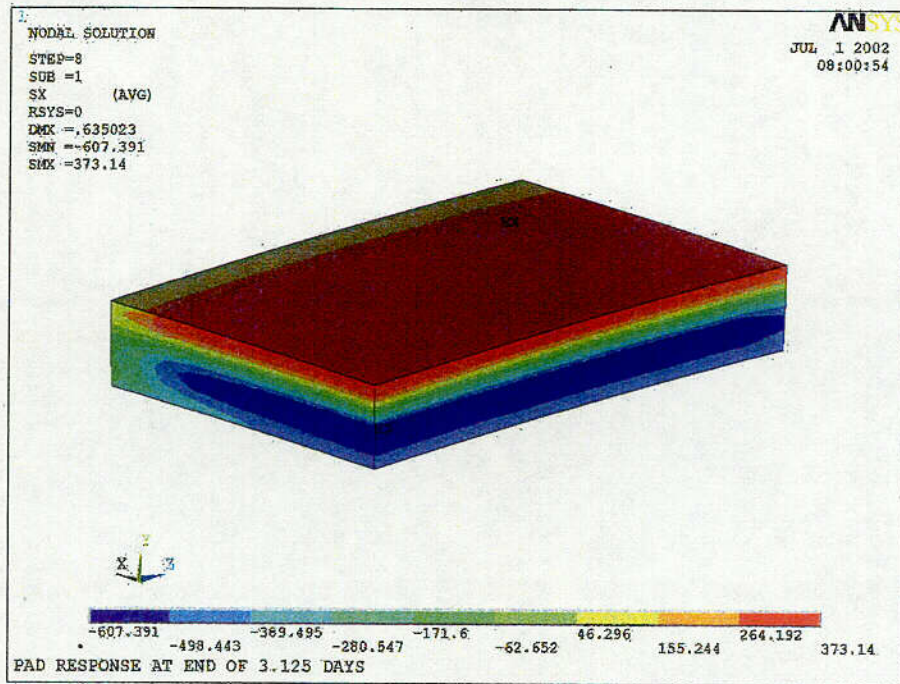


Figure ST-8X

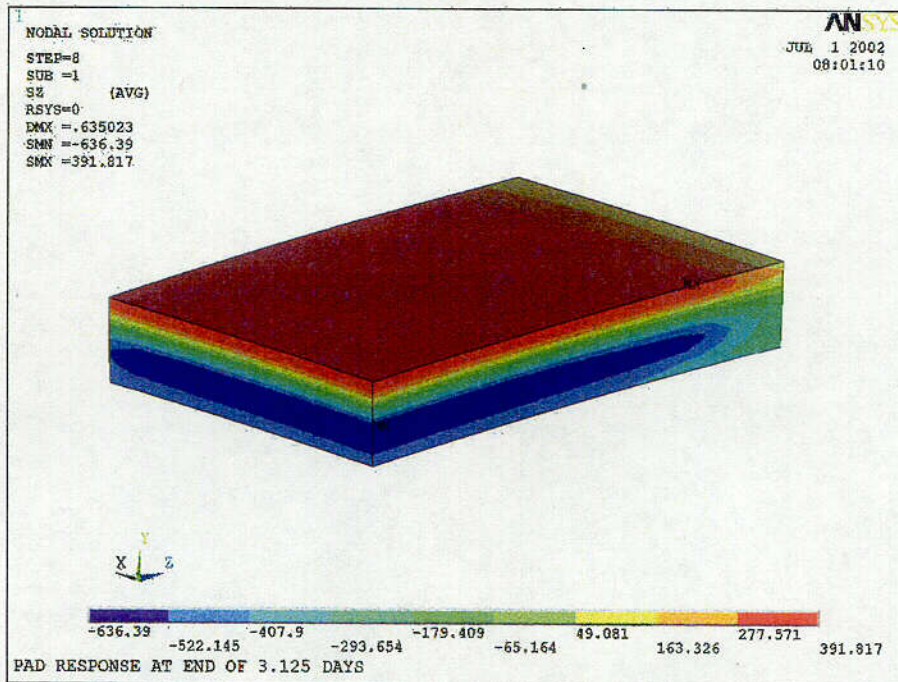


Figure ST-8Z



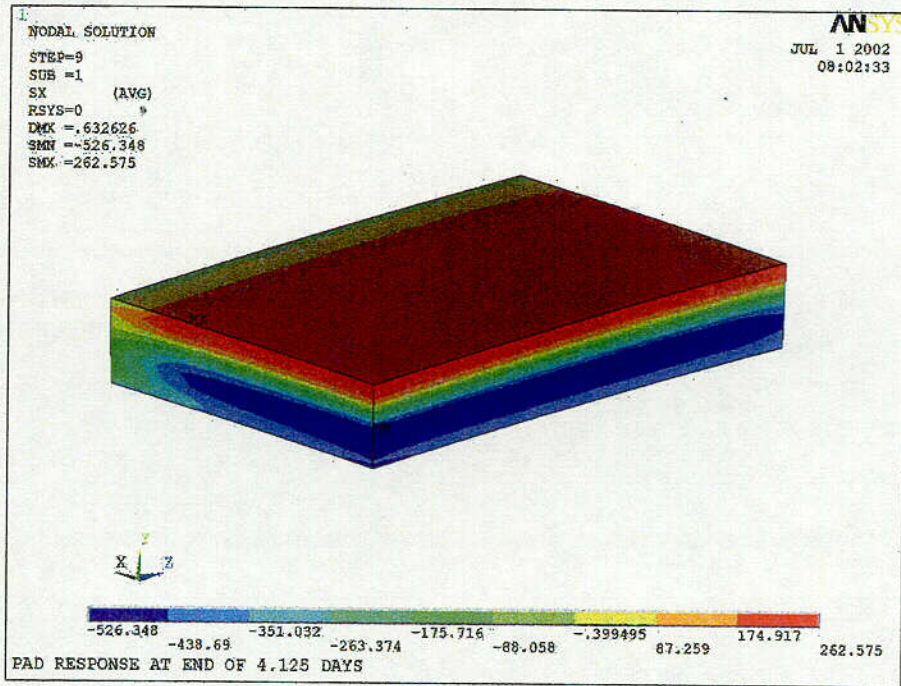


Figure ST-9X

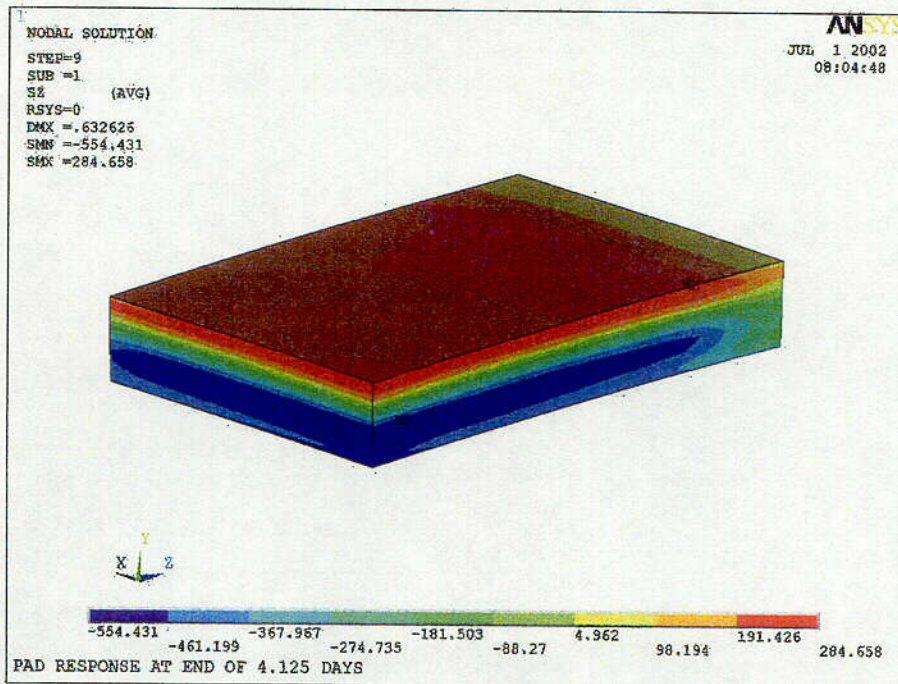


Figure ST-9Z



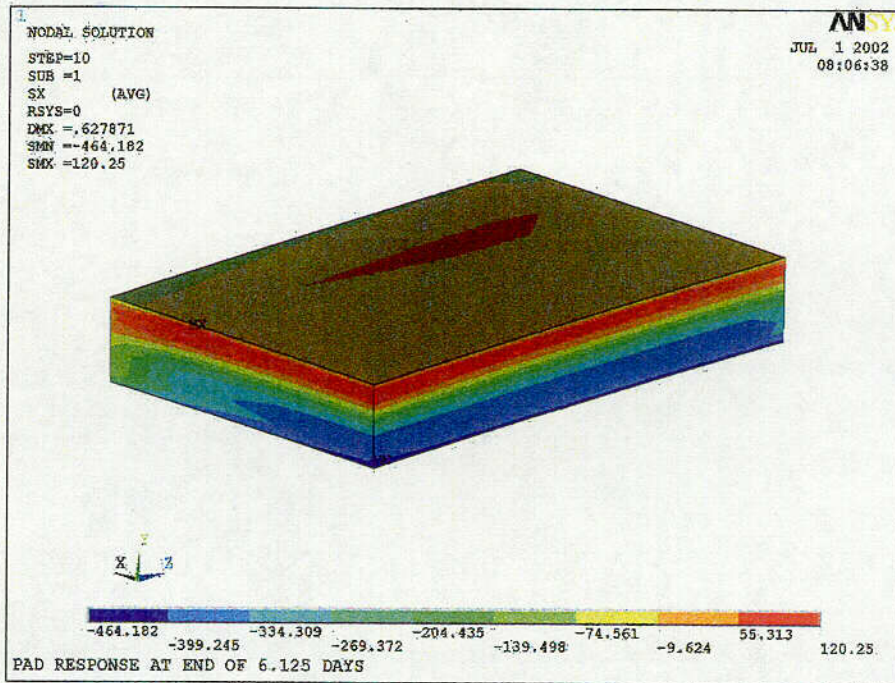


Figure ST-10X

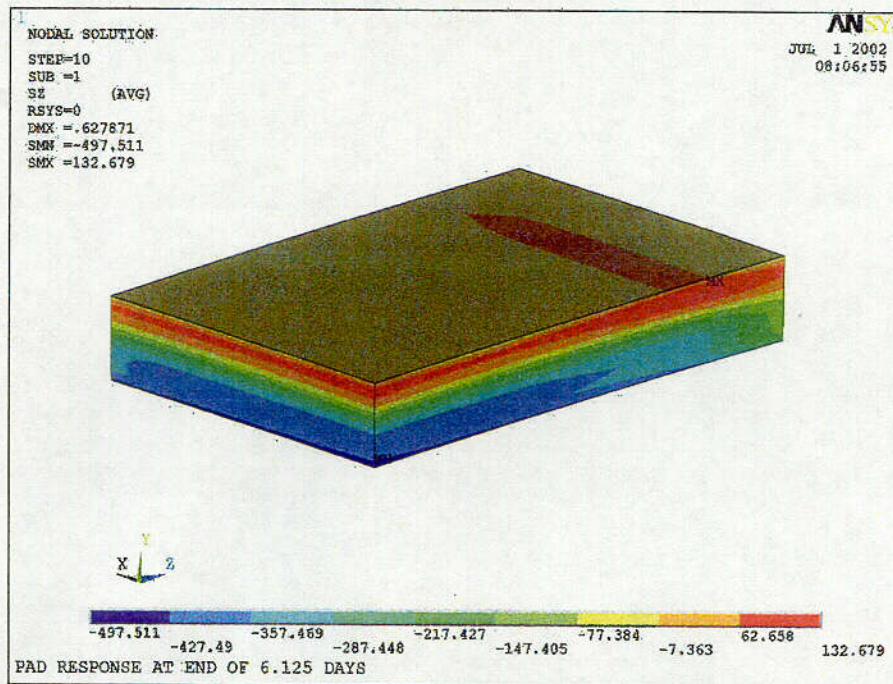


Figure ST-10Z



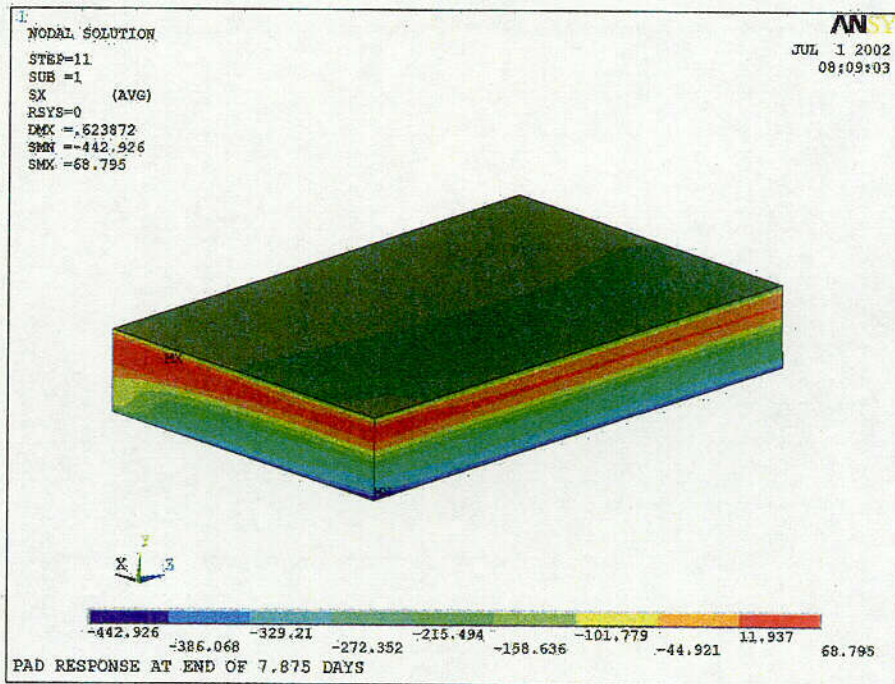


Figure ST-11X

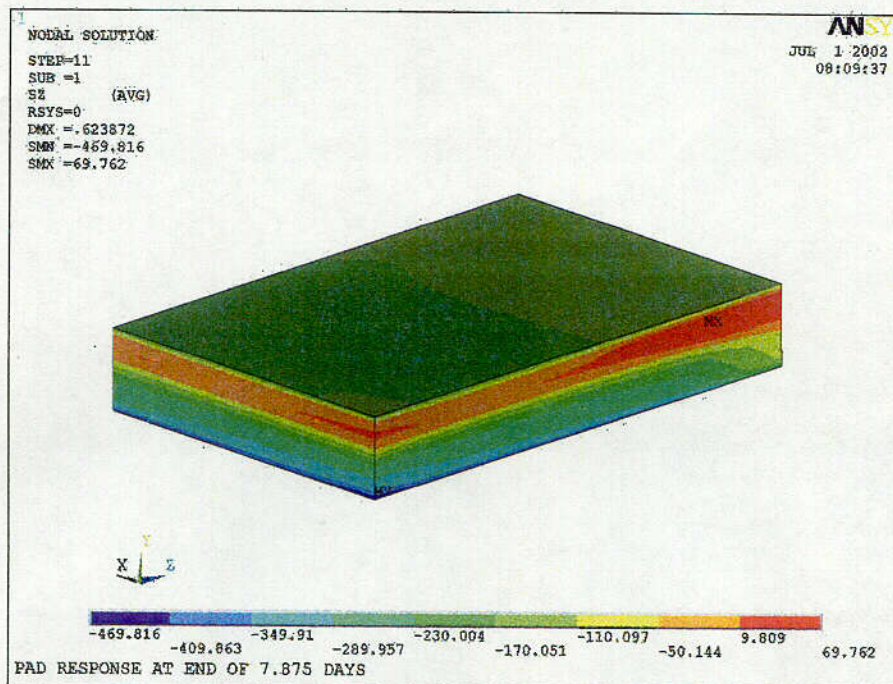


Figure ST-11Z