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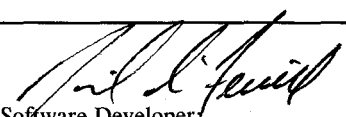
SOFTWARE RELEASE NOTICE

1. SRN Number: GLGP-SRN-196		
2. Project Title: Structural Deformation & Seismicity Code Development		Project No. 20-1402-472
3. SRN Title: 3DStress, Version 1.3.1		
4. Originator/Requestor: Dave Ferrill		Date: 07/14/99
5. Summary of Actions <input type="checkbox"/> Release of new software <input checked="" type="checkbox"/> Release of modified software: <input checked="" type="checkbox"/> Enhancements made <input type="checkbox"/> Corrections made <input type="checkbox"/> Change of access software <input checked="" type="checkbox"/> Software Retirement <i>A. L. McKague 11/30/01</i>		
6. Persons Authorized Access		
Name	Read Only/Read-Write	Addition/Change/Delete
David Ferrill	RW	
John Stamatakos	RW	
Larry McKague	RW	
Philip Justus (NRC)	RO	
Chuck Connor	RO	
Britt Hill	RO	
Ron Martin	RO	
7. Element Manager Approval: <i>A. L. McKague</i>		Date: <i>7/15/99</i>
8. Remarks: Enhancements include significant improvements to the user interface, Mohr Circle displays, and splash screen.		

*Revised 5/8/2000
complete package.
QA*

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SOFTWARE SUMMARY FORM

01. Summary Date: 07/14/99	02. Summary prepared by (Name and phone) Bruce Mabrito, (210) 522-5149	03. Summary Action: New Release	
04. Software Date: 07/14/99	05. Short Title: 3DStress Version 1.3.1		
06. Software Title: 3DStress, Version 1.3.1		07. Internal Software ID: NONE	
08. Software Type: <input type="checkbox"/> Automated Data System <input checked="" type="checkbox"/> Computer Program <input type="checkbox"/> Subroutine/Module	09. Processing Mode: <input type="checkbox"/> Interactive <input type="checkbox"/> Batch <input checked="" type="checkbox"/> Combination	10. Application Area: a. General: <input checked="" type="checkbox"/> Scientific/Engineering <input type="checkbox"/> Auxiliary Analyses <input type="checkbox"/> Total System PA <input type="checkbox"/> Subsystem PA <input type="checkbox"/> Other b. Specific:	
11. Submitting Organization and Address: CNWRA/SWRI 6220 Culebra Road San Antonio TX 78228		12. Technical Contact(s) and Phone: Dave Ferrill, (210) 522-6082	
13. Software Application: 3DStress is an interactive tool for analyzing the tendency for faults and fractures to slip or dilate based on a user specified three dimensional stress state.			
14. Computer Platform Silicon Graphics (SGI)	15. Computer Operating System: IRIX 5.3 or Higher	16. Programming Language(s): C++	17. Number of Source Program Statements: 69283 lines
18. Computer Memory Requirements: 16 MB minimum	19. Tape Drives: Supplied on CD ROM	20. Disk Units: 6 MB minimum	21. Graphics: Open GL & MOTIF
22. Other Operational Requirements: NONE			
23. Software Availability: <input checked="" type="checkbox"/> Available <input type="checkbox"/> Limited <input type="checkbox"/> In-House ONLY		24. Documentation Availability: <input checked="" type="checkbox"/> Available <input type="checkbox"/> Inadequate <input type="checkbox"/> In-House ONLY	
Software Developer: 		Date: 15 July 1999	

SOFTWARE CHANGE REPORT

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SOFTWARE CHANGE REPORT (SCR)

SCR No. (Software Developer Assigns): GLGP-SCR-269	Software Title and Version: 3DStress v.1.3.1	Project No: 20-1402-472
Affected Software Module(s), Description of Problem(s): When in Mohr Graph, the Min & Max for principle stresses is small defines a small range, dependent-stress mode causes not a scale errors for principle stress scales.		
Change Requested by: <i>D.A. Exall</i> <i>Bill Lewis</i>	Change Authorized by (Software Developer): <i>Bill Lewis</i>	
Date: 13 July 1999	Date: 13 July 1999	
Description of Change(s) or Problem Resolution (If changes not implemented, please justify): Freeze min & max at widest setting & grey them out when in dependent stress mode		
Implemented by: Joshua Buckner	Date: 14 July 1999	
Description of Acceptance Tests: <ul style="list-style-type: none"> - Execute 3DStress - Open the Mohr graph & its Options window - set Min & Max to high numbers close to each other - select dependent stress mode - try 3 different stress & ratio settings - ensure that there were no errors Repeat the above 3 times with different values		
Tested by: <i>Bill Lewis</i>	Date: 7/14/99	

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SOFTWARE CHANGE REPORT (SCR)

SCR No. (Software Developer Assigns): GLGP-SCR-268	Software Title and Version: 3DStress V. 1.3.1	Project No: 20-1402-472
Affected Software Module(s), Description of Problem(s): In Mohr Options window, "apply" button should be "update" & have explanator y text nearby		
Change Requested by: <i>David A. Ferrell</i> <i>Bill Ferrell</i>	Change Authorized by (Software Developer): <i>[Signature]</i>	
Date: 13 July 1999	Date: 13 July 1999	
Description of Change(s) or Problem Resolution (If changes not implemented, please justify): changed "Apply" to "update" & added note		
Implemented by: Joshua Buckner	Date: 14 July 1999	
Description of Acceptance Tests: <ul style="list-style-type: none"> - Execute 3DStress - Open the Mohr Graph - Open the Mohr Options Window - ensure that everything reads correctly Do the above twice		
Tested by: <i>[Signature]</i>	Date: 7/14/99.	

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SOFTWARE CHANGE REPORT (SCR)

SCR No. (Software Developer Assigns): GLGP-SCR-268	Software Title and Version: 3D Stress v. 1.3.1	Project No: 20-1402-472
Affected Software Module(s), Description of Problem(s): bounds on effective stresses unnecessary in Mohr Graph		
Change Requested by: <i>DAVID A. FERRELL</i> <i>Pl. Finio</i>	Change Authorized by (Software Developer): <i>Pl. Finio</i>	
Date: 13 July 1999	Date: 13 July 1999	
Description of Change(s) or Problem Resolution (If changes not implemented, please justify): Removed tests for out-of-bounds effective stresses. Added a reset button to the Options window in case circle unfindable by user.		
Implemented by: Joshua Buckner	Date: 14 July 1999	
Description of Acceptance Tests: <ul style="list-style-type: none"> - Execute 3D Stress - Open the Mohr Graph & its Options window - Set stresses & fluid pressure to their maxs & press reset - do the same for mins - repeat twice - confirm no errors 		
Tested by: <i>Pl. Finio</i>	Date: 7/14/99	

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SOFTWARE CHANGE REPORT (SCR)

SCR No. (Software Developer Assigns): GLG.P-SCR-266	Software Title and Version: 3D Stress v. 1.3.1	Project No: 20-1402-472
Affected Software Module(s), Description of Problem(s): Added ^{or} primes & asterisks on Mohr Graph & its options window there ^{are} needed to indicate effective stress		
Change Requested by: <i>David A. Buckner</i>	Change Authorized by (Software Developer): <i>David A. Buckner</i>	
Date: 13 July 1999	Date: 13 July 1999	
Description of Change(s) or Problem Resolution (If changes not implemented, please justify): Added primes & asterisks where needed		
Implemented by: Josh Buckner	Date: 13 July 1999	
Description of Acceptance Tests: <ul style="list-style-type: none"> - Execute 3D stress - Open Mohr Graph & its options window - confirm correct indication of effective stresses 		
Tested by: <i>David A. Buckner</i>	Date: 7/14/99	

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SOFTWARE CHANGE REPORT (SCR)

SCR No. / Software Developer Assigns): GLGP-SCR-265	Software Title and Version: 3DStress v. 1.3.1	Project No: 20-1402-472
Affected Software Module(s), Description of Problem(s): The module for turning .2grd files (Earthvision) to .flt (ascii) files adds extraneous surfaces to the fault models.		
Change Requested by: <i>[Signature]</i> Date: 6/28/99	Change Authorized by (Software Developer): <i>[Signature]</i> Date: 6/28/99	
Description of Change(s) or Problem Resolution (If changes not implemented, please justify): Added culling of null z-coord bearing points + culling of tris of less than 3 coord. points.		
Implemented by: Joshua W. Buckner	Date: 7/8/99	
Description of Acceptance Tests: Run several .2grd files through the module and then load the results into 3DStress confirming that there are no problems (make sure a couple of the files are known to have problems under the old system)		
Tested by: Darrell Sims	Date: 13 Jul 99	

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SOFTWARE CHANGE REPORT (SCR)

SCR No. (Software Developer Assigns): GLGP-SCR-264	Software Title and Version: 3DStress v1. 3.1	Project No: 20-1402-47Z
Affected Software Module(s), Description of Problem(s): In Mohr Graph & its options window, formula for effective stress should be displayed and effective stresses should be indicated with a prime		
Change Requested by: <i>[Signature]</i>	Change Authorized by (Software Developer): <i>[Signature]</i>	
Date: 6/28/99	Date: 6/28/99	
Description of Change(s) or Problem Resolution (If changes not implemented, please justify): Added primes and formula (Eff. stresses = σ - fluid pressure) to relevant windows.		
Implemented by: Joshua W. Buckner	Date: 7/8/99	
Description of Acceptance Tests: Load 3dstress 3 times confirming each time that the Mohr Graph and Mohr Graph Options window look as they should.		
Tested by: <i>[Signature]</i>	Date: 7/13/99	

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SOFTWARE CHANGE REPORT (SCR)

SCR No. (Software Developer Assigns): GLGP-SCR-263	Software Title and Version: 3DS-tress v. 1.3.1	Project No: 20-1402-472
Affected Software Module(s), Description of Problem(s): In Mohr Graph: Options window, maximum allowable fluid pressure not adequate.		
Change Requested by: [Signature] DAN A. FOUILL Date: 6/25/99	Change Authorized by (Software Developer): [Signature] Date: 6/25/99	
Description of Change(s) or Problem Resolution (If changes not implemented, please justify): Increased fluid Pressure maximum from 100 to 1000		
Implemented by: Joshua Buckner	Date: 7/5/99	
Description of Acceptance Tests: { Change fluid pressure sliders to different settings as well as principle stresses 1. Repeat 3 times w diff. values for both dependant + independant stress modes 2. confirm that there were no anomalous occurrences		
Tested by: [Signature]	Date: 7/13/99	

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SOFTWARE CHANGE REPORT (SCR)

SCR No. / Software Developer Assigns): GLGP-SCR-262	Software Title and Version: 3DStress V.1.3.1	Project No: 20-1402-472
Affected Software Module(s), Description of Problem(s): Splash screen does not adequately convey relationship between MVE + CNWRA + NRC		
Change Requested by: DAVIDA FERRIN <i>[Signature]</i>	Change Authorized by (Software Developer): <i>[Signature]</i>	
Date: 6/28/99	Date: 6/28/99	
Description of Change(s) or Problem Resolution (If changes not implemented, please justify): 1. Made Graphic Larger 2. Added more specific + relevant text → in splash screen		
Implemented by: Joshua W. Buckner	Date: 7/6/99	
Description of Acceptance Tests: Load 3d stress and click ^{CLOSE} OK on splash screen → repeat 5 times		
Tested by: <i>[Signature]</i>	Date: 7/13/99	