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SOFTWARE RELEASE NOTICE

01. SRN Number: GHGC-SRN-151		
02. Project Title: CEMCHEM, V 1.0		Project No. 20-5708-561
03. SRN Title: CEMCHEM Version 1.0		
04. Originator/Requestor: Bruce Mabrito		Date: 07/29/97
05. Summary of Actions <input checked="" type="checkbox"/> Release of new softwaree. <input type="checkbox"/> Release of modified software: <input type="checkbox"/> Enhancements made <input type="checkbox"/> Corrections made <input type="checkbox"/> Change of access software <input checked="" type="checkbox"/> Software Retirement <i>ECM 11/28/2001</i>		
06. Persons Authorized Access		
Name	RO/RW	A/C/D
Roberto Pabalan	RO	A
07. Element Manager Approval: <i>ECM</i>		Date: <i>7/29/97</i>
08. Remarks: Acquired software, not to be modified		

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SOFTWARE SUMMARY FORM

01. Summary Date: 7/28/97		02. Summary prepared by (Name and phone) Roberto Pabalan (210) 522-5704		03. Summary Action: New	
04. Software Date: 7/28/97		05. Short Title: CEMCHEM, Version 1.0			
06. Software Title: CEMCHEM, Version 1.0				07. Internal Software ID: N/A	
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 checked="" type="checkbox"/> Batch <input 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, 6220 Culebra Rd., San Antonio, TX 78238			12. Technical Contact(s) and Phone: Roberto Pabalan, 522-5304		
13. Narrative: <p>CEMCHEM was developed by Aberdeen University researchers to predict the solid phase assemblage in a mature cement based on thermodynamic considerations and on results of phase equilibrium experiments (Atkins et al., 1992). The model converts the chemical composition of Portland cement and a blending agent, such as silica fume, fly ash, or blast furnace slag, into mole percent of constituent hydrated phases as a function of blending proportions.</p> <p>Reference: M. Atkins, D. Bennett, A. Dawes, F. Glasser, A. Kindness, and D. Read. <u>A Thermodynamic Model for Blended Cements</u>. DoE/HMIP/RR/92/005. Aberdeen, Scotland: Aberdeen University (1992).</p>					
14. Computer Platform PC		15. Computer Operating System: Windows 3.1		16. Programming Language(s): Fortran 77	
17. Number of Source Program Statements: 404		18. Computer Memory Requirements: 2 Mb		19. Tape Drives: N/A	
20. Disk/Drum Units: N/A		21. Graphics: N/A		22. Other Operational Requirements	
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 Custodian: <u>Roberto Pabalan</u> Date: <u>7/29/97</u>					