

SOFTWARE RELEASE NOTICE

1. SRN Number: CSPE - SRN-277		
2. Project Title: CLST		Project No. 20.01402.571
3. SRN Title: THERMOCALC Version PN		
4. Originator/Requestor: Yi-Ming Pan		Date: 9/5/02
5. Summary of Actions <input checked="" type="checkbox"/> Release of new software <input type="checkbox"/> Change of access software <input type="checkbox"/> Release of modified software: <input type="checkbox"/> Software Retirement <input type="checkbox"/> Enhancements made <input type="checkbox"/> Corrections made		
6. Validation Status <input type="checkbox"/> Validated <input type="checkbox"/> Limited Validation <input checked="" type="checkbox"/> Not Validated Explain: <u>Validation process underway</u>		
7. Persons Authorized Access		
Name	Read Only/Read-Write	Addition/Change/Delete
Y. Pan	RO	A
8. Element Manager Approval: <i>[Signature]</i>		Date: 9/5/02
9. Remarks: Installation test performed 9/5/02 by Y. Pan and recorded in Notebook No.498, pp. 43-45. Results confirmed with Figure 3 in the Ni-DATA promotion sheet and Example 15 in the Thermo-Calc Examples Manual. The results of this test and the figure in the Ni-DATA promotion sheet are attached. Test results are acceptable.		

SOFTWARE SUMMARY FORM

01. Summary Date: 9/5/02	02. Summary prepared by (Name and phone) Yi-Ming Pan, ext 6640	03. Summary Action: Acceptance testing for THERMOCALC Version P	
04. Software Date: 2002	05. Short Title: Phase Diagram Calculation Software		
06. Software Title: THERMOCALC Version P (Thermo-Calc Software, Stockholm, Sweden)			07. Internal Software ID:
08. Software Type: <input type="checkbox"/> Automated Data System <input checked="" type="checkbox"/> Computer Program <input type="checkbox"/> Subroutine/Module	09. Processing Mode: <input checked="" type="checkbox"/> Interactive <input 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/SwRI 6220 Culebra Road San Antonio, TX 78228		12. Technical Contact(s) and Phone: Yi-Ming Pan (210) 522-6640	
13. Software Application: Phase diagram and property diagram calculations in multicomponent material systems			
14. Computer Platform PC	15. Computer Operating System: NT	16. Programming Language(s): NA	17. Number of Source Program Statements: NA
18. Computer Memory Requirements: 40MB	19. Tape Drives: NA	20. Disk Units: NA	21. Graphics: NA
22. Other Operational Requirements NA			
23. Software Availability: <input type="checkbox"/> Available <input checked="" type="checkbox"/> Limited <input type="checkbox"/> In-House ONLY		24. Documentation Availability: <input checked="" type="checkbox"/> Available <input type="checkbox"/> Preliminary <input type="checkbox"/> In-House ONLY	
25. User: <i>Yi-Ming Pan</i> Software Developer: <i>Yi-Ming Pan</i> Date: <i>9/5/02</i>			

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

QA VERIFICATION REPORT

FOR

→ ACQUIRED SOFTWARE NOT TO BE MODIFIED ←

Software Title/Name: THERMOCALC
 Version: 9/11/02 PN
 Demonstration workstation: Cesa
 Operating System: NT
 User: Yi - Ming Pan

NOTE: Acquired software may or may not meet all requirements and will be evaluated on a case-by-case basis.

Installation Testing [TOP-018, Section 5.6]

Has *installation testing* been conducted for each intended computer platform and operating system?
 Yes: ☒ No: ☐ N/A: ☐
 Computer Platforms: HP PC Operating Systems: NT
 Location of Acceptance Test Results: Scientific Notebook # 498 pg 43-45
 Comments: 7/3/02

Software Output [TOP-018, Section 5.5.4]

Is software designed so that individual runs are uniquely identified by date, time, name of software and version?
 Yes: ☒ No: ☐ N/A: ☐
 Date and Time Displayed: 2002.09.04 08.53
 Name/Version Displayed: THERMO-CALC (No version)
 Comments:

NOTE: Output identification content and format is typically taken as is.

Medium Documentation [TOP-018, Section 5.5.6]

The physical labeling of software medium (tapes, disks, etc.) contains: Program Name, Module/Name/Title, Module Revision, File type (ASCII, OBJ, EXE), Recording Date, and Operating System(s)?
 Yes: ☒ No: ☐ N/A: ☐
 Comments:

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User Documentation [TOP-018, Section 5.5.7]

Is there a Users' Manual for the software and is it up-to-date?

Yes: ☒ No: ☐ N/A: ☐

User's Manual Version and Date: Version N, 04/24/02
Comments:

Are there basic instructions for the *installation* and *use* of the software?

Yes: ☒ No: ☐ N/A: ☐

Location of Instructions: Section 2.3 of
Comments: Users Guide - See attached.

Configuration Control [TOP-018, Section 5.7, 5.9.3]

Is the Software Summary Form (Form TOP-4-1) completed and signed?

Yes: ☒ No: ☐ N/A: ☐

Date of Approval: Sept 05, 2002

Is the list of files attached to the Software Summary Form complete and accurate?

Yes: ☒ No: ☐ N/A: ☐

Comments:

Is the source code available or, is the executable code available in the case of (acquired/commercial codes)?

Yes: ☒ No: ☐ N/A: ☐

Location of Source Code: See enclosed CD
Comments:

Have all the script/make files and executable files been submitted to the Software Custodian?

Only the executable files are being submitted.

Yes: ☒ No: ☐ N/A: ☐

Location of executable files: See enclosed CD
Comments:

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Software Release [TOP-018, Section 5.9]

Upon acceptance of the software as verified above, has a Software Release Notice (SRN), Form TOP-6 been issued and does the version number of the software match the documentation?

Yes: ☒ No: ☐ N/A: ☐

SRN Number: CSPE-SRN-277

Comments:

Software Validation [TOP-018, Section 5.10]

Has a Software Validation Test Plan (SVTP) been prepared for the *range of application* of the software?

Yes: ☐ No: ☒ N/A: ☐

Version and Date of SVTP: ____

Date Reviewed and Approved via QAP-002: ____

Comments: Validation Process Underway

Has a Software Validation Test Report (SVTR) been prepared that documents the results of the validation cases, interpretation of the results, and determination if the software has been validated?

Yes: ☐ No: ☒ N/A: ☐

Version and Date of SVTR: ____

Date Reviewed and Approved via QAP-002: ____

Comments.: Validation Process Underway

Additional Comments:

JJ Pan 9/19/02

Software Evaluator/User/Date

Ring 9/19/02

Software Custodian/Date

Code can be used with ThermoCalc GUI
2.0.1 windows mode. Ring 9/19/02

THERMO CALC CLASSIC

Volume in drive E is TCC
Volume Serial Number is 8018-E094

Directory of E:\

11/05/01	10:54a	<DIR>	.
11/05/01	10:54a	<DIR>	..
06/06/00	02:14p		47 autorun.inf
07/30/02	05:16p		775,814 data1.cab
07/30/02	05:16p		28,695 data1.hdr
07/30/02	05:16p		10,519,490 data2.cab
08/29/00	01:04p		5,232,640 gs601w32.exe
04/23/02	09:10a		338,488 ikernel.ex_
07/30/02	05:16p		422 layout.bin
01/08/00	06:40a		46,080 Setup.exe
07/30/02	05:16p		140 Setup.ini
07/30/02	05:16p		138,511 setup.inx
11/05/01	10:56a	<DIR>	User's Guide
		13 File(s)	17,080,327 bytes

Directory of E:\User's Guide

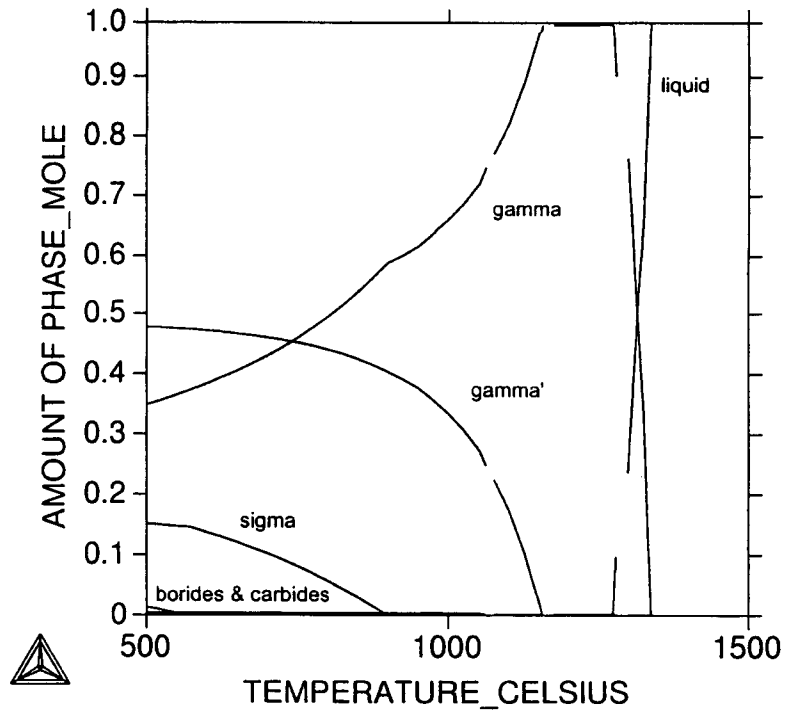
11/05/01	10:56a	<DIR>	.
11/05/01	10:54a	<DIR>	..
11/16/01	01:11p		1,422,124 TCN-examples.pdf
04/24/02	03:06p		10,048,068 TCN-Users-Guide.pdf
		4 File(s)	11,470,192 bytes

Total Files Listed:

17 File(s)	28,550,519 bytes
	0 bytes free

Test Case: Equilibrium Phases Prediction in UDIMAT 720
Recorded in Scientific Notebook No. 498, Page 43.

THERMO-CALC (2002.09.04:08.53) :
DATABASE:NI
UDIMAT 720



Test Case: Solidification Simulation of Cr-10 mole % Ni Alloy
Recorded in Scientific Notebook No. 498, Page 45.

THERMO-CALC (2002.09.04:15.13) :

