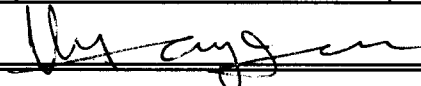


SOFTWARE RELEASE NOTICE

1. SRN Number: CSPE - SRN-278		
2. Project Title: CLST		Project No. 20.01402.571
3. SRN Title: DICTRA Version 21		
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: 		Date: 9/5/02
9. Remarks: Installation test performed 9/5/02 by Y. Pan and recorded in Scientific Notebook No.498, pp. 46-47. Results confirmed with Example d1 in the DICTRA Examples Manual. The results of this test 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 DICTRA Version 21	
04. Software Date: 2001	05. Short Title: Diffusion Simulation Software		
06. Software Title: DICTRA Version 21 (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: Simulations of diffusion-controlled phase transformation 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: 20MB	19. Tape Drives: NA	20. Disk Units: NA	21. Graphics: NA
22. Other Operational Requirements NA <i>Requires Thermal Calc. Run on 09/19/02</i>			
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> Date: <i>9/5/02</i> Software Developer: <i>Yi-Ming Pan</i>			

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

QA VERIFICATION REPORT

FOR

→ ACQUIRED SOFTWARE NOT TO BE MODIFIED ←

Software Title/Name: DICTRA

Version: Version 21

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: PC Operating Systems: NT

Location of Acceptance Test Results: Scientific Notebook 5 498, pp 46-47

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: 17.52.19

Name/Version Displayed: DICTRA (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:

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

QA VERIFICATION REPORT

FOR

→ ACQUIRED SOFTWARE NOT TO BE MODIFIED ←

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: DICTRA Version 21 (02/21/01)

Comments: User's Guide on enclosed CD.

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

See ThermoCalc Users Guide.

Yes: ☒ No: ☐ N/A: ☐

Location of Instructions: User's Guide Version 21.

Comments: Uses Install Shield. Requires ThermoCalc V-N

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. 5, 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: Code on 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: Also requires ThermoCalc to be installed, ThermoCalc QA folder.

see

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

QA VERIFICATION REPORT

FOR

→ ACQUIRED SOFTWARE NOT TO BE MODIFIED ←

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: CSPC-SRN-270

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:

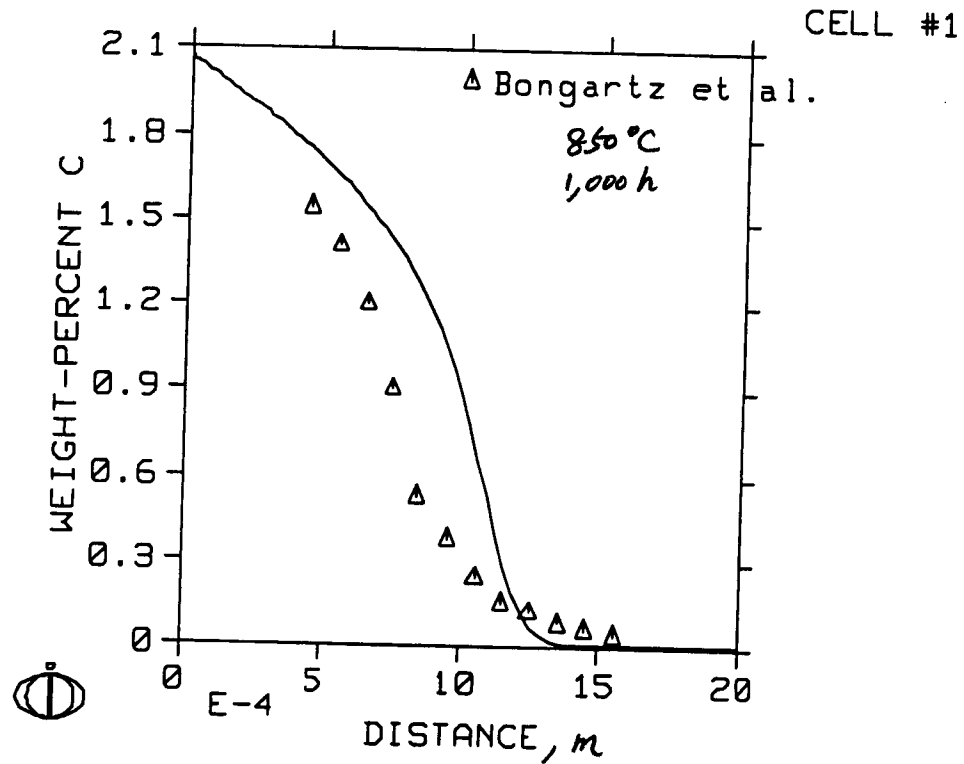
[Signature] 9/19/02
Software Evaluator/User/Date

[Signature] 9/19/02
Software Custodian/Date

Test Case : Carburation of Ni - 25 wt.% Cr Alloy

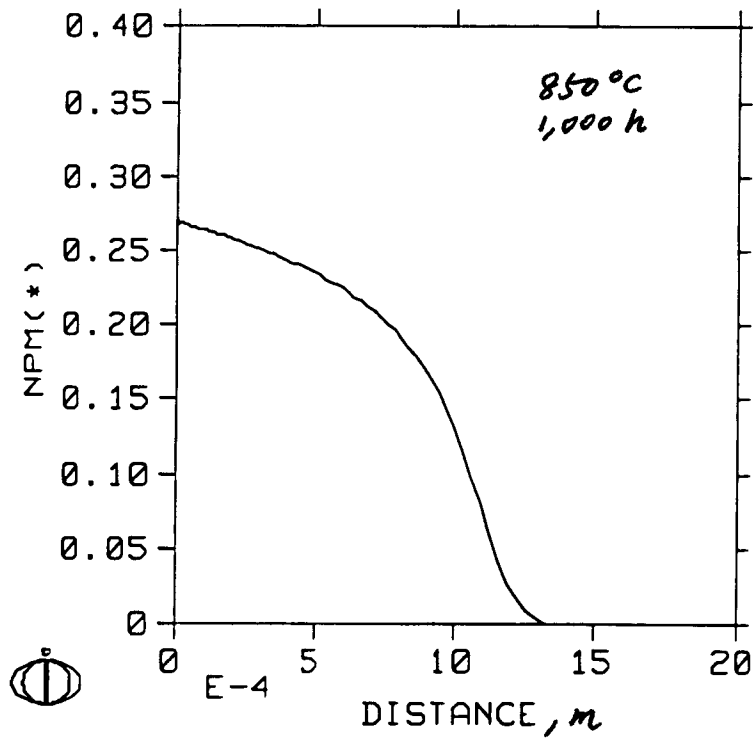
Recorded in Scientific Notebook No. 498, pp. 46-47.

DICTRA (2002-09-04:17.57.19) :d1.1
TIME = 3600000 s



DICTRA (2002-09-04:18.00.49) :d1.2
TIME = 3600000 S

CELL #1



DICTRA

Volume in drive E is DICTRA
Volume Serial Number is 462B-A5D8

Directory of E:\

11/06/01	11:40a	<DIR>	.	
11/06/01	11:40a	<DIR>	..	
06/06/00	02:14p		47	autorun.inf
07/30/02	05:22p		768,860	data1.cab
07/30/02	05:22p		24,562	data1.hdr
07/30/02	05:22p		2,659,385	data2.cab
04/23/02	09:10a		338,488	ikernel.ex_
07/30/02	05:22p		422	layout.bin
01/08/00	06:40a		46,080	Setup.exe
07/30/02	05:22p		136	Setup.ini
07/30/02	05:22p		131,671	setup.inx
11/06/01	11:40a	<DIR>		User's Guide
		12 File(s)	3,969,651	bytes

Directory of E:\User's Guide

11/06/01	11:40a	<DIR>	.	
11/06/01	11:40a	<DIR>	..	
03/05/01	09:54a		1,019,657	DIC-examples.pdf
02/13/01	09:42a		378,927	DIC-Users-guide.pdf
		4 File(s)	1,398,584	bytes

Total Files Listed:

16 File(s)	5,368,235	bytes
	0	bytes free