

MAY 09 1995
35 Station 21

ENGINEERING DATA TRANSMITTAL

Page 1 of 1
1. EDT 600158

2. To: (Receiving Organization) Distribution	3. From: (Originating Organization) Characterization Monitoring Systems	4. Related EDT No.: N/A
5. Proj./Prog./Dept./Div.: SY-101 Mitigation	6. Cog. Engr.: M. Gimera/71140	7. Purchase Order No.: N/A
8. Originator Remarks: Transmittal of WHC-SD-WM-ATR-129 for approval and release.		9. Equip./Component No.: N/A
11. Receiver Remarks:		10. System/Bldg./Facility: 241-SY-101
		12. Major Assm. Dwg. No.: N/A
		13. Permit/Permit Application No.: N/A
		14. Required Response Date: ASAP

15. DATA TRANSMITTED					(F)	(G)	(H)	(I)
(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	Impact Level	Reason for Transmittal	Originator Disposition	Receiver Disposition
1	WHC-SD-WM-ATR-129		0	Void Fraction Instrument Software, Version 1.2, Acceptance Test Report	Q	1,2	1	

16. KEY					
Impact Level (F)		Reason for Transmittal (G)		Disposition (H) & (I)	
1, 2, 3, or 4 (see MRP 5.43)		1. Approval	4. Review	1. Approved	4. Reviewed no/comment
		2. Release	5. Post-Review	2. Approved w/comment	5. Reviewed w/comment
		3. Information	6. Dist. (Receipt Acknow. Required)	3. Disapproved w/comment	6. Receipt acknowledged

17. SIGNATURE/DISTRIBUTION (See Impact Level for required signatures)											
(G)	(H)	(J) Name (K) Signature (L) Date (M) MSIN				(J) Name (K) Signature (L) Date (M) MSIN				(G)	(H)
Reason	Disp.			(L) Date	(M) MSIN			(L) Date	(M) MSIN	Reason	Disp.
1	1	Cog. Eng.	M. Gimera	4/27/95	16-37						
1	1	Cog. Mgr.	R. E. Bauer	4/28/95	37						
1	1	QA	S-Y-95 M. L. McElroy	4/28/95	37-57	5707					
		Safety									
		Env.									
1	1		T. I. Stokes	4/28/95	H5-09	4-28-95					

18. M. Gimera Signature of EDT Originator 4/27/95	19. R. E. Bauer Authorized Representative for Receiving Organization 4/28/95	20. R. E. Bauer Cognizant/Project Engineer's Manager 4/28/95	21. DOE APPROVAL (if required) Ltr. No. <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/comments <input type="checkbox"/> Disapproved w/comments
---	--	--	--

DISCLAIMER

Portions of this document may be illegible in electronic image products. Images are produced from the best available original document.

RELEASE AUTHORIZATION

Document Number: WHC-SD-WM-ATR-129, Rev. 0

Document Title: VOID FRACTION INSTRUMENT SOFTWARE, VERSION 1.2,
ACCEPTANCE TEST REPORT

Release Date: 5/8/95

**This document was reviewed following the
procedures described in WHC-CM-3-4 and is:**

APPROVED FOR PUBLIC RELEASE

WHC Information Release Administration Specialist:

Chris Willingham
C. Willingham

5/8/95


TRADEMARK DISCLAIMER. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof or its contractors or subcontractors.

This report has been reproduced from the best available copy. Available in paper copy and microfiche. Printed in the United States of America. Available to the U.S. Department of Energy and its contractors from:

U.S. Department of Energy
Office of Scientific and Technical Information (OSTI)
P.O. Box 62
Oak Ridge, TN 37831
Telephone: (615) 576-8401

Available to the public from:

U.S. Department of Commerce
National Technical Information Service (NTIS)
5285 Port Royal Road
Springfield, VA 22161
Telephone: (703) 487-4650

SUPPORTING DOCUMENT		1. Total Pages 6
2. Title Void Fraction Instrument Software, Version 1.2, Acceptance Test Report	3. Number WHC-SD-WM-ATR-129	4. Rev No. 0
5. Key Words Void Fraction 101-SY Instrumentation	6. Author Name: M. Gimera  Signature Organization/Charge Code 71140 /W2B12	
7. Abstract Provides the report for the void fraction instrument acceptance test software Version 1.2. The void fraction will collect data that will be used to calculate the quantity of gas trapped in waste tanks.		
8. RELEASE STAMP <div data-bbox="1068 1629 1507 1856" style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> OFFICIAL RELEASE BY WHC DATE MAY 09 1995 35 SECTION 21 </div>		

**VOID FRACTION INSTRUMENT
SOFTWARE VERSION 1.2
ACCEPTANCE TEST REPORT**

IMPACT LEVEL Q

**Issued by
Characterization Monitoring Systems
April 1995**

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

Westinghouse Hanford Company

TABLE OF CONTENTS

SECTION	PAGE
1. INTRODUCTION	3
1.1. Purpose	3
1.2. Scope	3
1.3. Definitions and Abbreviations	3
2. DESCRIPTION OF TEST	3
3. TEST RESULTS	4
4. CONCLUSIONS	7
5. TEST DATA SHEETS	7

**VOID FRACTION INSTRUMENT
SOFTWARE VERSION 1.2
ACCEPTANCE TEST REPORT**

1. INTRODUCTION

1.1. PURPOSE

This document presents both a test plan and acceptance test procedure for testing the modifications to the void fraction instrument software. Together with the acceptance test procedure, this document satisfies the requirements in EP 4.1, "Design Verification Requirements." The selected method of design verification is qualification testing.

1.2. SCOPE

The testing described in this document covers modifications to the software that controls and acquires data for the void fraction instrument. The testing is limited to the modifications that result in version 1.2 of the software. Other aspects of the software were covered in a previous ATP. This approach is valid because the software is modular and the affect of changes have a limited scope.

1.3. DEFINITIONS AND ABBREVIATIONS

ATP Acceptance Test Procedure

ATR Acceptance Test Report

EP Standard Engineering Practice (WHC-CM-6-1)

2. DESCRIPTION OF TEST

The modifications that result in version 1.2 of the software are minor. The software modifications only read a dynamometer that is used with crane operations. This modification will be tested by running the software and reading the value on the front panel. The record data switch will be activated and the resulting file checked to verify that the crane load was recorded to file. Other values on the front panel and in the data will be observed for any erroneous values which would be an indication of side affects. It is highly unlikely that any side-affects will occur do to the module nature of the software.

The test was performed April 13, 1995 at Tank 101-SY. The test performer was M. Gimera. No Quality Assurance witness was present.

3. TEST RESULTS

The results of the testing are presented below. Actual test data sheets are included in Section 5.

The software was able to read the crane dynamometer input and display it on the front panel. It was also able to record this value to a data file. This was accomplished without any side affects.

Note that the recorded value of -48 lbs is due to the crane dynamometer being zeroed with some rigging (shackles). This is done so that only the load is recorded by the dynamometer. In this case no shackles were hung from the dynamometer. The reading was further verified by pulling on the dynamometer, which increased the reading to -28 lbs as shown in the data file.

4. CONCLUSIONS

This acceptance test is considered successful.

5. TEST DATA SHEETS

The test data sheets are included on the following pages.

SOFTWARE ACCEPTANCE TEST DATA SHEET
FOR
VOID FRACTION INSTRUMENT

Test Performer: Michael Jimenez
Date of Test April 13, 1995

Step	Description	Data	Expected
8	Reading of crane load from front panel	<u>- 48</u> lb	< 0 lb
9	Do any values appear to be erroneous?	Y (N)	N
14	Reading of crane load from file	<u>- 48</u> lb	< 0 lb
15	Do any values appear to be erroneous?	Y (N)	N

Michael Jimenez
Test Performer

N/A
QA Witness