DISTRIBUTION SHEET

To Distribution	From HWVP Construction Projects	Page 1 of 1
		Date 08/17/94
Project Title/Work Order Release of Hanford Waste Vitrification Plant Design Media		EDT No. 150176
		ECN No. None

Name	MSIN	Text With All Attach.	Text Only	Attach./ Appendix Only	EDT/ECN Only
J. N. Autrey	G6-06	X			
R. R. Bevins	G6-06	X			
S. A. Compton	H5-26	X			
D. W. Duncan	G6-07	X			
J. A. Highland	A3-80	X			
M. J. Hubbard	A3-80	X			
L. S. Legowik	L4-89	X			
S. R. Nelson	G6-14	X			
B. J. Rose	G6-51	X			
R. P. Rung	G6-06	X			
L. J. Schmidt	L4-89	X			
G. D. Slater	G6-51	X			
R. A. Smith	G6-02	X			
M. D. Talbot	G6-02	X			
C. W. Turner	G6-14	X			
Central Files (orig. +2)	L8-04	X			
DPC-2 (2)	G6-51	X			
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4. Related EDT No.: N/A						7. Purchase Order No.: N/A					
8. Originator Remarks:						9. Equip./Component No.: N/A					
This EDT releases the work plan that describes how HWVP drawings and Vendor Information will be released in the WHC systems for permanent retention.						10. System/Bldg./Facility: N/A					
11. Receiver Remarks:						12. Major Assm. Dwg. No.: N/A					
13. Permit/Permit Application No.: N/A						14. Required Response Date:					
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1	WHC-SD-HMW-WP-005	0		Release of HMVP Design Media	N/A	1					
16. KEY											
Reason for Transmittal (G)											
Disposition (H) & (I)											
Approval Designer (F)											
1. Approved 2. Release 3. Information 4. Review 5. Post-Review 6. Dist. (Receipt Acknow. Required)											
1. Approved w/comment 2. Reviewed w/comment 3. Disapproved w/comment 4. Reviewed no/comment 5. Receipt acknowledged											
17. SIGNATURE/DISTRIBUTION (See Approval Designer for required signatures)											
(G) (H)	(J) Name (K) Signature (L) Date (M) MSIN	(J) Name (K) Signature (L) Date (M) MSIN	(J) Name (K) Signature (L) Date (M) MSIN	(J) Name (K) Signature (L) Date (M) MSIN	(J) Name (K) Signature (L) Date (M) MSIN	(J) Name (K) Signature (L) Date (M) MSIN	(J) Name (K) Signature (L) Date (M) MSIN	(J) Name (K) Signature (L) Date (M) MSIN	(J) Name (K) Signature (L) Date (M) MSIN	(J) Name (K) Signature (L) Date (M) MSIN	(J) Name (K) Signature (L) Date (M) MSIN
Reson	Cog.-Eng. R. R. Bevins	Cog. Mgr. R. A. Smith	QA D. W. Duncan	Safety	Env.	L.S. Legowitz	G. D. Slater	I	I	I	I
Dis-son	8/29/94	8/29/94	8/29/94	8/29/94	8/29/94	8/29/94	8/29/94	8/29/94	8/29/94	8/29/94	8/29/94
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RELEASE AUTHORIZATION

Document Number: WHC-SD-HWV-WP-005, Rev. 0

Document Title: Release of HWVP Design Media

Release Date: 10/5/94

* * * * *

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

APPROVED FOR PUBLIC RELEASE

* * * * *

WHC Information Release Administration Specialist:

Christine Willingham

C. WILLINGHAM

(Signature)

10/5/94

(Date)

MASTER

SUPPORTING DOCUMENT		1. Total Pages 33
2. Title Release of HWVP Design Media		3. Number WHC-SD-HWV-WP-005
5. Key Words HWVP, Design Drawings, Vendor Information, WHC Drawing System, Vendor Information Files		4. Rev No. 0
6. Author Name: R. R. Bevins <i>R. R. Bevins</i> Signature Organization/Charge Code 7F140/V1211		
7. Abstract This work plan describes the internal WHC reviews that will be conducted prior to accepting the final design media on the HWVP Project. The work plan identifies the roles and responsibilities in the review process.		
8. PURPOSE AND USE OF DOCUMENT - This document was prepared for use within the U.S. Department of Energy and its contractors. It is to be used only to perform, direct, or integrate work under U.S. Department of Energy contracts. This document is not approved for public release until reviewed. PATE NT STATUS - This document copy, since it is transmitted in advance of patent clearance, is made available in confidence solely for use in performance of work under contracts with the U.S. Department of Energy. This document is not to be published nor its contents otherwise disseminated or used for purposes other than specified above before patent approval for such release or use has been secured, upon request, from the Patent Counsel, U.S. Department of Energy Field Office, Richland, WA. 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, nor any of their contractors, subcontractors or their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or any third party's use or the results of such use 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 or its contractors or subcontractors. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.		10. RELEASE STAMP OFFICIAL RELEASE 23 BY WHC DATE OCT - 5 1994 <i>Sta #10</i>
9. Impact Level N/A		

**APPROVED FOR
PUBLIC RELEASE**

*CW
10-5-94*

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RELEASE OF HANFORD WASTE VITRIFICATION PLANT DESIGN MEDIA

1.0 INTRODUCTION

Late in 1993 the Hanford Waste Vitrification Plant (HWVP) Project was given direction by the U.S. Department of Energy (DOE), Richland Operations Office (RL) to defer design activities on the project. As a result of this direction, detailed design work on most structures was stopped and the design information was stored. Design and construction work was carried to completion on a few of the HWVP packages. The packages that were carried to completion are the subject of this work plan.

2.0 SCOPE

At the conclusion of construction and testing, design information will be turned over to Westinghouse Hanford Company (WHC) for permanent retention. Before the design information can be entered into the WHC retention systems, the information must be checked for compliance with WHC and RL requirements.

2.1 OBJECTIVES

The objective of this work plan is to assemble a team of personnel from WHC and BCS Richland, Inc. (BCSR) to review HWVP design packages produced by UE&C-Catalytic Inc. (UCAT) and Fluor Daniel, Inc. (FDI). The team will review the packages and identify the minimum alterations that must be made to the design media to allow the information to be released into the WHC retention systems.

3.0 DESCRIPTION

This work plan will identify team members assigned to review the completed HWVP design packages assembled by UCAT and FDI. The team members will provide feedback describing the minimum changes that must be made to the design media before the media can be released into the WHC retention systems. This work plan will be used as a guide in handling the packages as they are received by WHC for review. Although this work plan describes the review process, it is not intended to cover every possible contingency or event that may occur. Therefore, the team members are expected to cooperate and solve any problems that may arise during the review process. The team's goal is to expeditiously review the documents and provide clear, concise feedback to UCAT and FDI when changes are required. The WHC internal review process is shown in Figure 1.

Figure 1. Package/Drawing Review.

The UCAT staff contracted V. K. Powell to design and construct the facilities listed in the packages designated as Tank Waste Remediation System and Miscellaneous. The UCAT will be transferring H-2 drawings, vendor drawings, calculations, and vendor information developed by V. K. Powell and subcontractors. The FDI, Irvine, California, designed the facilities in the packages designated as A-130 through A-170.

The WHC, with support from Documentation and Records Management of BCSR, will perform technical and format reviews on final design packages. The technical review will look for Design Change Notice incorporation, spot-check configuration to ensure the field installation is identical to the as-built drawings, and review the balance of design media for completeness. In cases where the drawing depicts a condition where some, but not all, equipment was installed, the drawing must clearly differentiate between installed and uninstalled equipment. The format review will look for compliance with HPS-SDC-1.3, "Preparation and Control of Engineering and Fabrication Drawings" (DOE-RL 1990) and the reproducibility of the information submitted. Table 1 is a list of HWVP packages WHC expects to review.

The WHC has requested as-built design information be submitted as a complete package for its review. For example, all design information pertaining to the A-170 "Construction Power" package should be submitted as a single entity for review by WHC. The submitted package should contain completed as-built drawings with electronic data sets, specifications, vendor information, design calculations, etc.

3.1 PROCESS

Fluor and UCAT were asked to prepare and submit as-built packages. A copy of the letter providing guidance to the contractors is contained in Appendix A. Subsequent to issuing the guidance letter, and prior to issuing this work plan, WHC, UCAT, and FDI met to answer questions regarding as-built packages. A copy of the meeting minutes is contained in Appendix B. The HWVP Project expects to receive complete packages for review. The packages are expected to contain a complete set of as-built drawings, construction specifications, design calculations, vendor information, and vendor drawings.

The Document Processing Center (DPC) will receive the information from the contractors and transfer the packages to the Projects Data Systems (PDS) group. The PDS will enter the information into a tracking database and assign vendor information numbers. Construction Projects will review the total package for completeness. Subsequent to the Construction Projects review, PDS will divide the package into two components, H-2 drawings and design/vendor information. The PDS will distribute the components to the appropriate groups for review.

H-2 Drawing Reviews

The drawings will receive a format review for the minimum information required for release into the WHC drawing system. A waiver to specific requirements contained in HPS-SDC-1.3 was requested and granted by the DOE on March 9, 1994. The waiver is for the FDI-generated drawings and allows the

Table 1. Hanford Waste Vitrification Plant Packages
for Westinghouse Hanford Company Review.

Package designator	Title/contents	Responsible contractor	Number of drawings
TWRS	TOB, TOB Communications and TOB Secondary Power Feed	UCAT	105
Miscellaneous	Guardhouse	UCAT	5
	Warehouse	UCAT	14
	Hazardous Material Accumulation	UCAT	3
	Material Management Pad	UCAT	1
	Duct Banks, Site Communications, and Vaults	UCAT	5
	Trailer Village	UCAT	3
	TOB Parking Lot	UCAT	2
	Concrete Batch Plant	UCAT	3
A-130	Roads and Site Preparation	FDI	24
A-140	Security Fence	FDI	7
A-150	Area Security Lighting	FDI	6
A-160	Mechanical Site Utilities/Deluge Piping to Trailer Village	FDI	158
A-170	Construction Power (A-170, P-19)	FDI	21

FDI = Fluor Daniel, Inc.

TOB = Tank Waste Remediation System Office Building

TWRS = Tank Waste Remediation System

UCAT = UE&C-Catalytic Inc.

use of the FDI standard title and drawing format in lieu of the HPS-SDC-1.3 format. A copy of the waiver is contained in Appendix C.

The drawings were developed with the expectation that the complete HWVP facility would be constructed. Because of project deferral, the HWVP process building, the Canister Storage Building, and other HWVP buildings were not constructed. The drawings still show the buildings as phantom background information. It is not practical to remove the phantom information from the drawings; therefore, the drawings will be accepted by WHC with the phantom information shown on the drawings.

The initial release of the drawings (Release for Construction) was done by FDI. The initial release was Revision 0 and all subsequent alterations

after initial release were done within the bounds of the FDI configuration control system. Incorporation of the changes increased the revision beyond Revision 0; therefore, WHC will be receiving drawings for release into the WHC drawing system at revisions higher than Revision 0. The BCSR Micrographics group will place labels on the HWVP as-built drawings to indicate that previous revisions are contained in the HWVP Project files.

Design/Vendor Information

Vendor information, specifications, design calculations, vendor drawings, etc., will be placed in the WHC vendor information file system. The vendor information number will be added to the package index drawing by UCAT and FDI.

3.2 TASKS

The following activities will be performed in review and acceptance of the HWVP completed design packages.

3.2.1 Task 1--Prepare a Work Plan

Prepare a work plan that defines the roles and responsibilities of the organization within WHC and BCSR that is responsible for reviewing design media before entering it into the WHC Engineering Release System Database (ERSDB).

3.2.2 Task 2--Package Receipt

The DPC will receive the packages from UCAT and FDI, and will notify PDS when the packages arrive.

3.2.3 Task 3--Log In/Distribution

Projects Data Systems will log the information into the review tracking database. The PDS will notify Construction Project engineers (M. P. Rung and J. N. Autrey) that the packages are ready to be reviewed for completeness.

3.2.4 Task 4--Technical Review

J. N. Autrey and M. P. Rung, Construction Project engineers, will review each package for technical completeness. The purpose of their review is to ensure the package contains all the appropriate drawings, specifications, calculations, etc.

The WHC drawing system requires all drawings to have index numbers and area numbers. Mr. Autrey and Mr. Rung will supply the necessary area, building, and index numbers as required by HPS-SDC-1.3. Additionally, this review will spot-check configuration to ensure the field installation is the same as shown on the as-built drawings.

3.2.5 Task 5--Drawing Format Review

The WHC Configuration Management group will review the drawings and identify any items that will prevent the drawings from being released into the WHC ERSDB.

3.2.6 Task 6--As-Built Drawing Labels

Micrographics will place labels on the as-built drawings to indicate that previous revisions are contained in the HWVP Project files.

3.2.7 Task 7--Vendor Information Files

The vendor information files will be processed by PDS in the following manner.

- Establish the vendor information files. Index the information including all vendor information, calculations, specifications, etc. The cataloging will be done with assistance from the Construction Project Engineering group.
- Assign vendor information numbers to the files. This number must be given to the contractors so it can be added to the Reference Block of the package index drawing.
- Complete the necessary Engineering Data Transmittals for release of the information into the WHC drawing and vendor information files.
- Track the review material during the review process.

4.0 ORGANIZATIONAL RESPONSIBILITIES

The tasks required for this work plan to be implemented, and the individuals responsible for those tasks, are listed below. Signatures on the Engineering Data Transmittal indicate concurrence that the tasks are accepted by the responsible organization. A description of each task is provided in Section 3.0 of this work plan.

- Task 1   Work Plan preparation
          Manager: R. A. Smith
          Assignee: R. R. Bevins
          Organization code/charge code: 7F140/V13A7
- Task 2   Package receipt
          Manager: G. D. Slater
          Assignee: B. J. Rose
          Organization code/charge code: 66520/C13686

- Task 3 Enter a list of the package contents into the review tracking database
Manager: C. W. Turner
Assignee: S. A. Compton
Organization code/charge code: 7F613/J7F1G
- Task 4 As-built technical review
Manager: R. A. Smith
Assignee: J. N. Autrey/M. P. Rung
Organization code/charge code: 7F140/V13A7
- Task 5 Drawing format review
WHC minimum administrative release requirements
Manager: L. S. Legowik
Assignee: L. J. Schmidt
Organization code/charge code: 8D700/C13686
- Task 6 Drawing labels and microfilm HWVP H-2 drawings
Manager: J. A. Highland
Assignee: M. J. Hubbard
Organization code/charge code: 66400/C13686
- Task 7 Establish vendor information files and prepare Engineering Data Transmittal forms for releasing all information into the WHC ERSDB
Manager: C. W. Turner
Assignee: S. A. Compton
Organization code/charge code: 7F613/J7F1G

5.0 SCHEDULE

A draft contractor as-built delivery schedule is contained in Appendix D. At this time, the actual dates are being negotiated with UCAT and FDI. The time frames for WHC reviews are not expected to change.

6.0 QUALITY ASSURANCE

Quality Assurance will review this work plan and may conduct random surveillances during the implementation of this work plan.

7.0 REFERENCES

DOE-RL, 1990, "Preparation and Control of Engineering and Fabrication Drawings," HPS-SDC-1.3, Rev. 6, *Hanford Plant Standards*, U.S. Department of Energy-Richland Operations Office, Richland, Washington.

WHC-SD-HWV-WP-005
Revision 0

WHC, 1994, *Tank Waste Remediation System Projects Integrating Procedures*, WHC-IP-0944, TWRS-PIP-7.1, "Hanford Waste Vitrification Plant Project Comment Record (HCR) Form Usage," Rev. 0, Westinghouse Hanford Company, Richland, Washington.

APPENDIX A

GUIDANCE LETTER TO CONTRACTORS

CORRESPONDENCE DISTRIBUTION COVERSHEET

Author

Addressee

Correspondence No.

R. R. Bevins
376-3335

Mr. F. D. Pettit
UCAT

9454854

Subject: AS-BUILT

INTERNAL DISTRIBUTION

Approval	Date	Name	Location	w/att
		Correspondence Control		X
X R.R. Bevins	7-14-94	R. R. Bevins	G6-06	
		D. W. Duncan	G6-07	
		J. F. Erben	G6-12	
		D. Marshall	G6-02	
		DPC	G6-51	X
		RRB-LB	G6-02	
		RAS-LB	G6-02	

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JUL 14 1994

DPC

P.O. Box 1970 Richland, WA 99352

July 14, 1994

9454854

Responds to: N/A
Response due: N/A

Mr. F. D. Pettit, Project Director
UE&C-Catalytic Inc.
Hanford Waste Vitrification Plant Project
Post Office Box 10
Richland, Washington 99352

Dear Mr. Pettit:

AS-BUILT

The GCC Interface Needs List, dated June 22, 1994, Item 11, requested that Westinghouse Hanford Company (WHC) provide input on the assembly of as-built information for all Hanford Waste Vitrification Plant (HWVP) facilities. The attachment to this letter provides the requested input.

Fluor Daniel, Inc. and UE&C-Catalytic Inc. are requested to develop schedules showing the completion of HWVP as-built/document turnover based on direction provided in the attachment. The schedules are to show, by package, the date each contractor expects to have a package assembled and ready for initial WHC review. Following the WHC review period (WHC review time shown on page 1 of the attachment), the schedule should allow no more than two weeks for comment in corporation and no more than one week for final package preparation and return to WHC for final storage. Final transmittal of the design information should be done in accordance with HWVP-PP-7.7.

If compliance to a requirement cited in this document results in long information turnover delays, the contractor should identify those areas contributing to the delay and, together with WHC, identify "work arounds" to shorten the schedule, yet still maintain a quality product.

If you have any questions please contact Mr. R. R. Bevins on 376-3335.

Very truly yours,

R. A. Smith, Manager
Facilities Construction Projects and
HWVP Buyer's Technical Representative
Construction Projects

jkr

Attachment

RL - J. E. Couey
R. L. Long

AS-BUILD

At the conclusion of construction and testing, design information will be turned over to WHC for permanent retention. Before design information can be entered into WHC retention systems, the information must be checked for compliance with WHC and Department of Energy, Richland Wa. (DOE-RL) requirements. WHC and DOE-RL requirements for drawings and other design media are contained in Section 6.0 of the Functional Design Criteria, WHC-SD-HWV-FDC-001.

WHC will perform a technical review and format review on final packages. The technical review will look for DCN incorporation, spot check configuration to ensure field installation is the same as shown on as-built drawings and review the balance of design media for completeness. In cases where the drawing depicts a condition where some, but not all equipment was installed, the drawing must clearly differentiate between equipment installed and equipment not installed. The format review will look for compliance with Hanford Plant Standard, SDC-1.3 and the reproducibility of the information submitted. Below is a list of HWVP packages WHC expects to review and an estimate of the time WHC will require to conduct the review.

<u>Package Designator</u>	<u>Title</u>	<u>No. of Dwgs.</u>	<u>Estimated WHC Review Time</u>
TWRS	TWRS Office Building	105	4 wks
Misc.	a) Guardhouse/Time Bldg.	5	
	b) Warehouse	14	
	c) Haz. Waste Mat. Accum. Structure	3	
	d) Material Management Pad	1	
	e) Communications-vaults/duct, etc.	6	
	Total:	29	2 wks
A-130	Roads and Site Preparation	24	2 wks
A-140	Security Fence	7	1 wk
A-150	Area Security Lighting	6	1 wk
A-160	Mechanical Site Utilities	158	6 wks
A-170	Construction Power	21	2 wks

Package Assembly/Contents

WHC requests as-built design information be submitted as a complete package for their review. For example, all design information pertaining to the A-170, "Construction Power," package should be submitted as a single entity for review by WHC. The submitted package should contain completed as-built drawings with electronic data sets, specifications, vendor information, design calculations, etc. Partial packages will not be reviewed.

Drawings

Definition----An as-built drawing is an engineering drawing with all changes incorporated and field verified confirming the drawing accurately depicts the completed installation. The statement "as-built" must be entered in the description column of the revision.

DOE-RL Order 6430.1C requires use of the Hanford Plant Standards. H-2 series drawings shall be prepared in accordance with Hanford Plant Standard (HPS) SDC-1.3. The SDC-1.3 delineates drawing format, CADFILE and CADCODE identification, standard drawing sizes, lettering size, requirements for building numbers and index numbers, etc. As-built drawings submitted to WHC will be expected to meet requirements of SDC-1.3. The drawings will be checked for general compliance with SDC-1.3 and specifically the title blocks will be checked to ensure they contain valid drawing numbers, building numbers, index numbers and CAD file numbers.

In the event, an H-2 drawing requires major rework by the contractor to meet requirements of SDC-1.3, WHC can exercise one of the following options:
1) accept the drawing "as is", 2) return the drawing to the contractor for alterations, or 3) request a waiver of the noncompliant requirement from DOE-RL.

Additionally, WHC would like to have electronic data sets in Autocad format for those drawings generated using CAD stations. The drawing electronic datasets should be compatible with AutoCAD, Rev. 12. WHC must perform a verification of the electronic data set as described in WHC-SD-GN-UM-30009, "Archival of CAD Datasets Produced by Offsite A-Es."

Vendor Information, Specifications, Calculations, etc.

Vendor information (vendor submittals, vendor drawings etc.) , calculations, reports, O&M manuals, etc., must be legible to the fourth generation when reproduced in any media or be identified as the "Best Available Copy" if legibility to the fourth generation is not possible. The vendor information must be relatable to drawings that show the equipment.

A Vendor Information File Number must be added to the package index drawing before final acceptance by WHC. WHC will provide the contractors with a Vendor Information number for each package. The number will be supplied to the contractor when review comments are returned.

Databases

WHC would like each contractor to provide a list and description of any databases used in the tracking of vendor information or other design information. The list and description should briefly explain the function and purpose of the database. The purpose of supplying the list and description is so WHC can judge if the database would be helpful in the tracking and archiving of the design information. The description should include the name, description and version of the software.

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APPENDIX B

AS-BUILD MEETING MINUTES

MEETING MINUTES

Subject: Contractor As-Builds

TO: HWVP As-Built File

BUILDING: Vitro

FROM: R. R. Bevins

G6-06

CHAIRMAN: R. R. Bevins

G6-06

Dept-Operation-Component

HWVP Construction Engineering

Area
1100

Shift
Day

Meeting Date
Aug. 9, 1994

Number Attending
11

Attendees:

R. A. Smith	WHC	G6-06	P. J. Bedell	FDI	
R. R. Bevins	WHC	G6-06	B. R. Eisenbise	FDI	
J. N. Autrey	WHC	G6-06	S. E. Myrter	FDI	
M. P. Rung	WHC	G6-06	G. L. LeVan	RCI	X2-01
M. D. Talbot	WHC	G6-06	R. H. Abbott	RCI	X2-01
C. E. Swenson	WHC	G6-02			

Distribution:

Attendees

HWVP As-Built File

RRB Meeting Minutes

C. W. Turner WHC G6-14

J. R. Zullo WHC G1-62

The purpose was to supplement the WHC direction in correspondence No. 9454854 and to answer questions posed by RCI and FDI concerning as-built packages. The meeting duration was 3.5 hr. These minutes capture the essence of the meeting.

Question: Who is responsible for assembling the packages for WHC review?

Response: Below is a revision to the list provided in correspondence 9454854. The list represents a logical grouping of the design media into as-built review packages. The designated "Responsible Contractor" is responsible for assembling the as-built package for review and resolving all comments to the package.

<u>Package Designator</u>	<u>Title/Contents</u>	<u>Responsible Contractor</u>
TWRS	TOB/TOB Communications/TOB Secondary Power Feed	RCI
Misc.	a) Guardhouse	RCI
	b) Warehouse	RCI
	c) Hazardous Material Accumulation	RCI
	d) Material Management Pad	RCI
	e) Duct Banks, Site Communications, Vaults (Not in A 170 package)	RCI
	f) Trailer Village	RCI
	g) TOB Parking Lot	RCI
	h) Concrete Batch Plant	RCI
A-130	Roads and Site Preparation	FDI
A-140	Security Fence	FDI
A-150	Area Security Lighting	FDI
A-160	Mechanical Site Utilities/Supply Piping to Trailer Village Deluge System	FDI
A-170	Construction Power (A-170, P-19)	FDI

Question: What should be contained in a package?

Response: The contents will vary from package to package depending on complexity but in general each package should contain as-built H-2 design drawings electronic and hard copy (see note 1), final design specifications, vendor information lists, vendor drawings and design calculation. Including the list of vendor information is a slightly different approach than including all the vendor information with the review package. RCI has the vendor information and will allow anyone to look at the information during the package reviews.

RCI will provide original vendor information material when the final package are assembled for turnover to WHC. RCI will supply FDI computer printouts of RCI's vendor information database for the package reviews.

Note 1: (Not discussed in meeting) The H-2 drawing material for reviews shall be blue line prints, the hard copy for the final package shall be per HPS, SDC-1.3 paragraph C "Drawing Material". FDI will provide final drawings on mylar per FDI Cost & Fee Proposal for Title III Field Engineering Services, January 1994, paragraph 2.6.1, "Preparation of Plant As-built Drawings". The mylars shall be as described in SDC-1.3, paragraph C.

Note 2: (Not discussed at meeting) Vendor Information is considered quality records and per HWVP-PP-7.7 the material must be reproducible to the 4th generation or marked best available copy.

Question: Will the specifications be as-built to include actual selected vendor?

Response: All outstanding design changes are to be incorporated into the specifications. The final specification is to reflect the final design requirements. They will not be amended to reflect the actual vendor's equipment or product selected. The words "As-built" will be added to the specification title page after all design changes have been incorporated. Adding "as-built" to the specification title sheet is contrary to guidance in FDI Job bulletin # 20 however Mr. P. J. Bedell said the words can be added to the specification cover page.

Question: Should all specification sections be updated to the next higher revision?

Response: No, only specifications sections with DCNs or red line mark-ups should be revised.

Question: Should the Specification reference the applicable WHC vendor information number?

Response: No, the drawings will have the WHC Vendor Information number. The specifications will be stored in the WHC Vendor Information File System.

Question: O & M Manuals are typically provided by vendors as part of the vendor information. However, separate O & M Manuals will be provided for the Sanitary Sewer System and the Firewater system, does WHC want the vendor information for the Sanitary Sewer and Firewater systems contained in the O & M Manual or be included with the other vendor information.

Response: The copies of the vendor information for the Sewer and Firewater Systems should be included as part of the O & M manual. The original vendor information for the Sewer and Firewater Systems shall remain with the balance of the package vendor information and be turned over to WHC by RCI at the time the final package is accepted.

Question: Drawings currently contain building and or hardware not constructed or installed. As an example the Vit. Bldg. and CSB are shown in phantom on some of the drawings. Should this information be removed from the drawing. Must the drawings be changed to show only the installed equipment?

Response: No, the drawings should be amended to show all design changes implemented during the construction/installation/start up. The drawings must clearly differentiate

between hardware installed and hardware not installed. The differentiation can be accomplished through the use of notes, clouds or line weights or any combination. The words as-built will replace the words "as-constructed" which appear on some of the drawings.

Note: In FDI's comments to these meeting minutes FDI stated they may need to add new details (blowups) of portions of certain drawings to properly communicate as-built information. WHC accepts this but before new details are generated FDI must first consider the previously mentioned alternate methods of clouds, line weights or notes.

The drawing discussion revealed some of RCI drawings should be included on the FDI Index Drawing. FDI agreed to add, when appropriate the RCI drawing numbers to the Package Index Drawing and reference the RCI drawings on other package drawings where an interface between the two contractors appears.

WHC will be reviewing for general compliance with the DOE-RL requirements of Hanford Plant Standard (HPS) SDC-1.3. In particular WHC will be examining the drawing to ensure they contain building and index numbers required by the SDC. WHC (Rung and Autrey) will supply building and index numbers when such information is requested by the FDI or RCI. H-2 series drawings produced by FDI do not meet the requirements in SDC-1.3. In February 1994, WHC requested and was granted a waiver to the SDC-1.3 title format for FDI produced drawings. WHC will accept FDI drawings with the title format contained in FDI's "Design Control Procedure Manual".

FDI and RCI will add the Vendor Information Number (supplied by WHC) to the package index drawing.

Question: How many copies of each review package should be provided to WHC?

Response: One

Question: Can sub packages be provided for design packages such as A170, or is one complete package required?

Response: All information must be assembled into one package.

Question: How will comments be transmitted to the contractors?

Response: Comments will be written on HCR forms for disposition and resolution.

Question: Who, in WHC, is the sole point of contact for as-building information/direction?

Response: R. R. Bevins 509-376-3335

Question: When can WHC expect a schedule of packages from RCI and FDI.

Response: August 19, 1994 RCI and FDI will have schedules to WHC.

Question: The topic of this meeting is design and or technical information. What about the other information such as Quality Assurance records?

Response: The "other" or non-technical information should be turned over as Project Records as defined in the Project Procedures and are not the part of upcoming reviews.

End of Meeting Minutes

APPENDIX C

HANFORD PLANT STANDARDS (HPS-SDC-1.3) WAIVER LETTER

WHC-SD-HWV-WP-005
Revision 0
CORRESPONDENCE DISTRIBUTION COVERSHEET

Author

LC Williams/RL

Addressee

President/WHC

Correspondence No.

Incoming: 9401861
XREF: 9451273

Subject: HANFORD WASTE VITRIFICATION PLANT PROJECT REQUEST FOR
EXEMPTION

INTERNAL DISTRIBUTION

Approval	Date	Name	Location	w/att
		Correspondence Control	A3-01	X
		President's Office		
		WT Alumkal (Level I)		X
		CA Augustine	G6-02	X
		KD Daschke	L4-74	X
		AJ Fisher	A4-79	X
		SR Moreno		
		JL Rathbun	R3-09	X
		MP Rung	G6-06	X
		LK Severud		X
		MA Siano (Assignee)		X
		RA Smith		X
		EP Vodney		
		JC Wiborg	B3-55	X
		RD Wojtasek		X
		HWVP-DPC	G6-51	X

For distribution corrections contact Incoming WHC Correspondence Control:
Marian Cram, Doris Hartley or Chris Hough
54-6000-117 (9/88) (EF) WEF008 - Distribution Coversheet

94-HWV-021

MAR 09 1994

President
Westinghouse Hanford Company
Richland, Washington

Dear Sir:

HANFORD WASTE VITRIFICATION PLANT PROJECT REQUEST FOR EXEMPTION

Reference: Letter, R. A. Smith, WHC, to R. L. Long, RL, "Request
For Exemption From Standard Design Criteria 1.3," WHC
Letter No. 9451273, dated February 23, 1994.

The request for exemption to paragraph D.3, of the Standard Design
Criteria 1.3, as detailed in the enclosed referenced letter, is approved.

Please direct any comments and/or questions, regarding the contents of this
letter, to Mr. J. E. Couey, of the Tank Waste Projects Division, on
(509) 376-1457.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Larry C. Williams'.

Larry C. Williams, Director
Project Management Division

HWV:JEC

Enclosure

cc w/encl:
C. A. Augustine, WHC
M. P. Rung, WHC
R. A. Smith, WHC

P.O. Box 1970 Richland, WA 99352

February 23, 1994

9451273

Responds to: N/A

Response due: March 4, 1994

Mr. Robert L. Long, Chief
HWVP Project Branch
U.S. Department of Energy
Richland Operations Office
Richland, Washington 99352

Dear Mr. Long:

REQUEST FOR EXEMPTION FROM STANDARD DESIGN CRITERIA 1.3

U.S. Department of Energy, Richland Operations Office (RL) Order 6430.1C, "Hanford Plant Standards (HPS) Program," paragraph 8.a(1), states, "The use of Standard Design Criteria (SDC) is mandatory for all work done at or for Hanford." This paragraph also allows for exemptions or deviations from the mandatory SDC if approved by the Director of the RL Project Management Division.

Part of the SDC is provided in SDC-1.3, "General Design Criteria, Preparation and Control of Engineering and Fabrication Drawings," revision 6, dated and approved by U.S. Department of Energy on February 27, 1990.

SDC-1.3, paragraph D.3, dictates where drawing components shall be arranged. An analysis of Hanford Waste Vitrification Plant (HWVP) Project drawings generated by Fluor Daniel, Inc. (Fluor) and UE&C-Catalytic Inc. shows that the detailed requirements in SDC-1.3 were not enforced when the HWVP Project drawings were generated. The most significant deviation is that SDC-1.3 requires the revision block to be placed immediately to the left of the title block. HWVP Project design drawings have the revision block placed immediately above the title block.

We are now preparing for acceptance of all as-built HWVP Project drawings into the Westinghouse Hanford Company (WHC) records storage/retrieval and microfilming group. RL Order 6430.1C, paragraph 7.2, allows for deviations/exemptions on a case-by-case basis, and we hereby request approval to deviate from SDC-1.3 and allow the HWVP Project as-built design drawings be accepted in accordance with Fluor Design Control Procedures Manual, section 2.1, drawings format, revision 2, effective date of June 23, 1993.

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FEB 28 1994

ONE-RL/CCC
194-HWV-014

5.B.2 (B-595)

Acn # 9496804

Mr. Robert L. Long
Page 2

9451273

Your approval of this request for exemption by March 4, 1994, will be appreciated. If you have any questions please contact Mr. M. P. Rung at 376-3570.

Very truly yours,

R. A. Smith, Manager
Hanford Waste Vittrification Plant Project
Tank Waste Remediation System Projects

cjh

RL - J. E. Couey
R. O. Puthoff
G. H. Sanders

DISTRIBUTION COVERSHEET

Author	Mr. M. P. Rung 376-3570	Addressee	Mr. Robert L. Long (RL)	Correspondence No.	9451273
Subject	REQUEST FOR EXEMPTION FROM STANDARD DESIGN CRITERIA 1.3				
Internal Distribution					
Approval	Date	Name	Location	w/att	
		Correspondence Control	R3-01		
		W. T. Alumkal	R2-52		
		J. F. Erben	G6-12		
		S. L. Engstrom	G6-04		
		H. D. Harmon	R2-52		
		L. E. Nilsen	G6-12		
		J. L. Rathbun	R3-09		
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		J. Weber	S1-57		
		President's Office	B3-01		
		DPC	G6-51		
		RAS-LB	G6-02		
X	<i>lll</i>	C. A. Augustine	G6-02		
X	<i>M. Rung</i>	M. P. Rung	G6-06		
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			FEB 23 1994		
			D P C		

APPENDIX D

CONTRACTOR AS-BUILD DRAFT SCHEDULE

Draft---TECHNICAL DOCUMENTATION PACKAGE TURNOVER SCHEDULE

Fluor Daniel package	Raytheon package	Description	Vendor info number	As-built responsible organization	Package to WHC	Vendor package available WHC review	Date WHC provide comments	Raytheon/ FDI incorporate comments	Deliver final construction/ design documents to WHC
		The following will be as-built	--	--	--	--	--	--	--
A130	C130-01-5002	Roads and General Site Preparation	--	FDI	10-7-94	10-7-94	10-21-94	11-14-94	12-9-94
	C130-02-5080 (A130.1)	OAB/TOB Parking Lot	--	FDI/ Raytheon	--	--	--	--	--
A140	C140-01-5003	Security Fence	--	FDI	9-9-94	9-9-94	9-26-94	10-3-94	10-21-94
	C920-01-5006 (A140.1)	Water Line and Batch Plant Security Fence	--	FDI/ Raytheon	--	--	--	--	--
A150	C150-01-5004	Security Fence Lighting	--	FDI	9-23-94	9-19-94	10-14-94	10-24-94	11-10-94
A160	General	Mechanical Site Utilities	--	FDI	10-24-94	10-24-94	11-14-94	11-28-94	12-30-94
	C160-01-5011	Mechanical Site Utilities-Construction	--	FDI	--	--	--	--	--
	C160-01-5115	Lifting Tripod and Hoist for Septic Tank Filter Removal	--	FDI	--	--	--	--	--
	C160-01-5118	Procure RIC Transmitter/Receiver for FWPH to Bldg 283E Annunciator	--	FDI	--	--	--	--	--
	C160-01-5119	Procure RIC Red Annunciator Windows	--	FDI	--	--	--	--	--
	C160-01-5120	Procure Cabinets for RIC Trans/Rec	--	FDI	--	--	--	--	--
	C160-03-WP01	RWX/SWX South of Site (Includes Raytheon Packages C160-30 Through C160-84 for Materials)	--	FDI	--	--	--	--	--
	C160-06-5105	Combination Louver/Backdraft Damper/Filter Assemblies for RWPH	--	N/A	--	--	--	--	--
	C160-06-5106	Wall Exhaust Fans for RWPH	--	N/A	--	--	--	--	--
	C160-06-5107	Electric Unit Heaters for RWPH	--	N/A	--	--	--	--	--
	General (A160.1)	Mechanical Utilities	--	FDI/ Raytheon	--	--	--	--	--
	C160-05-5095 (A160.1)	Construction Facilities Fire Protection	--	FDI/ Raytheon	--	--	--	--	--
	C920-02-5009 (A160.1)	Fill Standpipe for Water Trucks	--	FDI/ Raytheon	--	--	--	--	--

Draft---TECHNICAL DOCUMENTATION PACKAGE TURNOVER SCHEDULE									
Fluor Daniel package	Raytheon package	Description	Vendor info number	As-built responsible organization	Package to WHC	Vendor package available WHC review	Date WHC provide comments	Raytheon/ FDI incorporate comments	Deliver final construction/ design documents to WHC
A170	General	Construction Power	--	FDI	10-24-94	10-24-94	11-21-94	12-16-94	12-31-94
	C170-01-5007	13.8 KV Power Line Re-route	--	FDI	--	--	--	--	--
	C170-02-5012	Construction Power and Lighting	--	FDI	--	--	--	--	--
	C170-03-5014	GFE (Switches) for C170-01-5007	--	FDI	--	--	--	--	--
	C170-03-5015	GFE (Cable) for C170-01-5007	--	FDI	--	--	--	--	--
	C170-05-5089	OAB/TOB Transformer	--	FDI	--	--	--	--	--
	C170-07-5092	OAB/TOB Transformer Installation	--	FDI	--	--	--	--	--
	C170-08-5111	15 KV Cable for TOB Disconnect Switch	--	FDI	--	--	--	--	--
	P19-02-1002	Construction Power Transformers	--	FDI	--	--	--	--	--
	P19-03-1003	Construction Power Switchgear	--	FDI	--	--	--	--	--
	General (A170.1)	Construction Power	--	FDI/ Raytheon	--	--	--	--	--
	C170-02-5012 (A170.1)	Construction Power, Communications, Duct Banks	--	FDI/ Raytheon	--	--	--	--	--
	PC-30160 (A170.1)	Miscellaneous Construction Facility Electrical Work	--	FDI/ Raytheon	--	--	--	--	--
TOB (A120)	General	TWRS Office Building	--	Raytheon	9-30-94	10-17-94	11-21-94	12-12-94	12-19-94
	C120-01-5016	OAB/TOB Construction	--	Raytheon	--	--	--	--	--
	C120-01-5114	TOB Self-Luminous Exit Lights	--	Raytheon	--	--	--	--	--
	C120-05-5096	Suffix B thru M - TOB Furnishings	--	Raytheon	--	--	--	--	--
	C120-05-5097	TOB Modular Partitions	--	Raytheon	--	--	--	--	--
	C120-05-5100	TOB Interior Signage and Nameplates	--	Raytheon	--	--	--	--	--
	C120-05-5108	TOB Blueprint Machine Backdraft Damper	--	Raytheon	--	--	--	--	--
	C120-05-5109	TOB Nameplates	--	Raytheon	--	--	--	--	--

Draft---TECHNICAL DOCUMENTATION PACKAGE TURNOVER SCHEDULE

Fluor Daniel package	Raytheon package	Description	Vendor info number	As-built responsible organization	Package to WHC	Vendor package available WHC review	Date WHC provide comments	Raytheon/ FDI incorporate comments	Deliver final construction/ design documents to WHC
	C120-05-5112	TOB Toilet Seat Tissue Dispensers	--	Raytheon	--	--	--	--	--
	C120-05-5113	TOB Exercise Equipment	--	Raytheon	--	--	--	--	--
	C120-05-5116	TOB Nameplates	--	Raytheon	--	--	--	--	--
	C120-05-5119	TOB Fire Stop Pillows at Fire Walls	--	Raytheon	--	--	--	--	--
	C120-06-5094	OAB/TOB Communications	--	Raytheon	--	--	--	--	--
	C120-07-5103	TOB Electrical Materials	--	Raytheon	--	--	--	--	--
	C120-08-5110	TOB Ionizing Smoke Detectors	--	Raytheon	--	--	--	--	--
C900	General	Batch Plant	--	Raytheon	9-2-94	9-12-94	9-26-94	10-17-94	10-24-94
	C900-01-5020	Batch Plant Facility	--	Raytheon	--	--	--	--	--
	C170-04-5023	750 KVA Transformer	--	Raytheon	--	--	--	--	--
B920.1	C920-03-5010	Timekeeping / Security Building	--	Raytheon	9-16-94	9-26-94	10-10-94	10-31-94	11-7-94
	B-40354	Guard Kiosk	--	Raytheon	--	--	--	--	--
B920.2	General	Hazardous Materials Storage / Material Management Pad	--	Raytheon	9-16-94	9-26-94	10-3-94	10-24-94	10-31-94
	C920-03-5010	HMS/MMP Construction	--	Raytheon	--	--	--	--	--
	C160-01-5011	HMS Mech and Elect Materials	--	Raytheon	--	--	--	--	--
	C160-05-5095	HMS Mech and Elect Modifications	--	Raytheon	--	--	--	--	--
B920.3	General	Temporary Construction Warehouse	--	Raytheon	9-23-94	10-3-94	10-17-94	11-7-94	11-14-94
	C920-06-5025	Warehouse Construction	--	Raytheon	--	--	--	--	--
	C160-05-5095	Warehouse Fire Protection	--	Raytheon	--	--	--	--	--
B920.4	F-80712	Maintenance Shop	--	Raytheon	9-16-94	9-26-94	10-3-94	10-24-94	10-31-94
B920.6	General	Trailer Village	--	Raytheon	9-16-94	10-3-94	10-17-94	11-7-94	11-14-94
	F-80105	Trailer Procurement	--	Raytheon	--	--	--	--	--
	F-80449	Trailer Procurement	--	Raytheon	--	--	--	--	--

D-4

WHC-SD-HMW-MP-005
Revision 0

Draft---TECHNICAL DOCUMENTATION PACKAGE TURNOVER SCHEDULE

Fluor Daniel package	Raytheon package	Description	Vendor info number	As-built responsible organization	Package to WHC	Vendor package available WHC review	Date WHC provide comments	Raytheon/ FDI incorporate comments	Deliver final construction/ design documents to WHC
		Following will not be as-built. Handle as project records.	--	--	--	--	--	--	--
A110	C110-01-5001	Clearing, Grubbing, and Grading	--	FDI	10-7-94	10-10-94	10-17-94	11-7-94	11-14-94
B200	C200-01-5008	Canister Storage Building Excavation	--	N/A	Compl	Yes	10-21-94	11-7-94	12-5-94
E350	C350-01-5013	Canister Storage Building Vault, Including Tubes and Bellows	--	N/A	Compl	Yes	10-28-94	9-2-94	12-5-94

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Revision 0