

# START

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0040884



Mr. John Grantham  
State of Washington  
Department of Ecology  
Nuclear & Mixed Waste Program  
P. O. Box 47600  
Olympia, WA 98504-7600

FLUOR DANIEL, INC.

Date: April 18, 1994

Reference: Hanford Waste Vitrification Plant  
DOE Contract DE-AC06-86RL10838  
Fluor Contract 8457

Transmittal No.: WDOE-913

Dear Mr. Grantham:

TRANSMITTAL

We enclose 2 copy of the items listed below. These are issued per US-DOE request.

Response due to Fluor: N/A  
Responds to: A160 PACKAGE

NUMBER	REV	DATE	TITLE
DCN - #0183	0	04/18/94	DCN TITLE: UPDATE UTILITY SOURCE DESIGN INFORMATION  "APPROVED FOR CONSTRUCTION"

Reference: FRP-1431, FUP-848  
Distribution:  
R. L. Long: DOE-RL, w/0  
TWP/AME Corresp Cntrl Cntr, MSIN A5-10  
(A160 PACKAGE), w/0  
P. Felise, WHC-RL (MSIN G6-06), w/1  
Environmental Data Management Center  
(MSIN H6-08), w/1  
D. Duncan, US EPA, Region X, w/0  
M.D. Talbot, WHC -w/0

Very truly yours,

*Nazy Eshraghi For/*

R.S. Poulter  
Project Director

RSP:JC:nre





FLUOR DANIEL

9513358.0413

US DEPARTMENT OF ENERGY  
HANFORD WASTE VITRIFICATION PLANT

**DESIGN CHANGE NOTICE**

DCN - 0183

REV 0

PAGE 1 OF 3

DCN TITLE

UPDATE UTILITY  
SOURCE DESIGN  
INFORMATION

DATE INITIATED

April 12, 1994

PACKAGE NO.

A160

**SECTION 1: DESCRIPTION OF CHANGE**

UPDATE PROJECT UTILITY SERVICE DESIGN INFORMATION (UTILITY INTERFACES) FOR VALVE AND ORIFICE SIZING.

THE INFORMATION CONTAINED IN THIS DCN REFLECTS A CHANGE TO THE TECHNICAL DATA PACKAGE (TDP) PER ENGINEERING CHANGE NOTICE (ECN) 400296 AND IS BASED UPON FLOW TESTING OF THE HANFORD SITE 200 EAST AREA RAW AND SANITARY WATER SYSTEMS WHICH PRODUCED SYSTEM PRESSURE AND FLOW DATA THAT IS DIFFERENT THAN THAT USED AS THE INITIAL DESIGN BASIS. THE UPDATED DATA PROVIDED HEREIN SHOULD BE USED TO PROPERLY SIZE HWVP RAW AND SANITARY WATER SYSTEM COMPONENTS.

FOR LIST OF AFFECTED DOCUMENTS, SEE SECTIONS 6 AND 7.

CAUSE OF CHANGE:

- Field Change Request
  - Supplier Disposition
  - Deficiency Report
  - Design Development
  - Change Request
  - TBD/Hold
  - Other \_\_\_\_\_
- Initiating Document(s)  
CR-HWVP-1006R1  
(ECN 400296)

**SECTION 2: EVALUATION**

	IF "YES", ADDITIONAL REVIEW REQUIRED BY:	REVIEWER COMMENTS AND SIGNATURE/DATE
WAPA DWG/SPEC? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES	_____	_____
QUALITY LEVEL 1 DWG/SPEC? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES	_____	_____
SAFETY CLASS 1 OR 2 DWG/SPEC? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES	_____	_____
SYSTEMS ANALYSES AFFECTED? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES	_____	_____
MULTI-DISCIPLINE CHANGE? <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES	PROCESS	<i>[Signature]</i> 4/18/94
DCN Evaluated by: Systems <i>[Signature]</i> 4/18/94	ADM <i>[Signature]</i>	Others _____

**SECTION 3: APPROVED FOR CONSTRUCTION**

Originator: *[Signature]* Date: 4/18/94  
 Project/Resident Engineer: *[Signature]* Date: 4/18/94

**SECTION 4: CONCURRENCE**

Project Management \_\_\_\_\_ Date \_\_\_\_\_  
 Systems \_\_\_\_\_ Date \_\_\_\_\_  
 Independent Safety \_\_\_\_\_ Date \_\_\_\_\_  
 Quality Assurance \_\_\_\_\_ Date \_\_\_\_\_  
 Configuration Management \_\_\_\_\_ Date \_\_\_\_\_

**SECTION 5: RELEASED FOR CONSTRUCTION**

PE STAMP REQUIRED?  NO  YES

WHC \_\_\_\_\_ Date \_\_\_\_\_  
 UCAT \_\_\_\_\_ Date \_\_\_\_\_  
 DOE \_\_\_\_\_ Date \_\_\_\_\_

COMMENTS:



FLUOR DANIEL 9513358.0414

US DEPARTMENT OF ENERGY  
HANFORD WASTE VITRIFICATION PLANT

DCN - 0183

REV 0	DISCIPLINE CONTROL SYSTEMS	PKG. NO. A160	PAGE 2
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DESIGN CHANGE NOTICE

PREPARED BY: *B. C. ...* Date: *4/18/94*

DISCIPLINE ENGINEER: *J. Cortez* Date: *4/18/94*

SECTION 6: CONSTRUCTION DOCUMENTS AFFECTED

DOCUMENT NUMBER	SHT/PAGE	REV NO	DOCUMENT NAME	INCLD Y/N	DESCRIPTION OF CHANGE
B-595-C-A160-17801	6	2	MECHANICAL SITE UTILITIES INSTRUMENTATION	Y	REVISE PROJECT UTILITY SOURCE DESIGN INFORMATION (UTILITY INTERFACES) FOR VALVE AND ORIFICE SIZING (PARAGRAPH 1.6.2, ITEMS B, C, D AND E).

SECTION 7: NON-CONSTRUCTION DOCUMENTS AFFECTED

This section references affected items such as P&IDs or calculations/analyses, but they are generally not included in DCN package.

DOCUMENT NUMBER	SHT/PAGE	REV NO	DOCUMENT NAME	DESCRIPTION OF CHANGE
H-2-123358	1	10	P&ID SYSTEM 50 RAW WATER AND FIRE WATER SYSTEMS	REVISE NOTE 1
H-2-123359	1	9	P&ID SYSTEM 49 SANITARY WATER SYSTEM	REVISE NOTE 3

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1. REVISE PARAGRAPH 1.6.2, ITEM B BY DELETING THE EXISTING WORDING AND INSERTING THE FOLLOWING:

THE HWVP B PLANT SANITARY WATER TIE-IN LOCATION SHALL BE AT OR NEAR COORDINATES N42411, W54376 (INTO EXISTING 10" DIAMETER PIPING). THE EXISTING SANITARY WATER PRESSURE AT THIS LOCATION IS 97 PSIG STATIC AND 73 PSIG RESIDUAL, FLOWING 1,000 GPM. THE WATER TEMPERATURE RANGE IS 40 DEGREES FAHRENHEIT TO 70 DEGREES FAHRENHEIT.

2. REVISE PARAGRAPH 1.6.2, ITEM C BY DELETING THE EXISTING WORDING AND INSERTING THE FOLLOWING:

THE HWVP 4TH STREET SANITARY WATER TIE-IN LOCATION SHALL BE AT OR NEAR COORDINATES N40205.00, W55103.17 (INTO EXISTING 8" DIAMETER PIPING). THE EXISTING SANITARY WATER PRESSURE AT THIS LOCATION IS 110 PSIG STATIC AND 79 PSIG RESIDUAL, FLOWING 1,000 GPM. THE WATER TEMPERATURE RANGE IS 40 DEGREES FAHRENHEIT TO 70 DEGREES FAHRENHEIT.

3. REVISE PARAGRAPH 1.6.2, ITEM D BY DELETING THE EXISTING WORDING AND INSERTING THE FOLLOWING:

THE HWVP 4TH STREET RAW WATER TIE-IN LOCATION SHALL BE AT OR NEAR COORDINATES N40480.08, W55336.42 (INTO EXISTING 12" DIAMETER PIPING). THE EXISTING RAW WATER PRESSURE AT THIS LOCATION IS 105 PSIG STATIC AND 85 PSIG RESIDUAL, FLOWING 1,500 GPM. THE WATER TEMPERATURE RANGE IS 40 DEGREES FAHRENHEIT TO 70 DEGREES FAHRENHEIT.

4. REVISE PARAGRAPH 1.6.2, ITEM E BY DELETING THE PARAGRAPH IN ITS ENTIRETY.

 <b>FLUOR DANIEL</b>		U.S. DEPARTMENT OF ENERGY HANFORD WASTE VITRIFICATION PLANT		<b>DESIGN CHANGE NOTICE</b>	
DESCRIPTION OF CHANGE  UPDATE PROJECT UTILITY SERVICE DESIGN INFORMATION (UTILITY INTERFACES) FOR VALVE AND ORIFICE SIZING.				BASE DOC. NO.  B-595-C-A160-17801	
				SHT/PG. 6	REV. 2
				DISCIPLINE: CONTROL SYSTEMS	
PREPARED BY: <i>Bryan R. Linder</i>	DATE: <i>4/8/94</i>	DCN-0183	REV 0	PAGE 3	
DISCIPLINE ENGINEER: <i>John Cotiga</i>	DATE: <i>4/8/94</i>				