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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

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US DEPARTMENT OF ENERGY
HANFORD WASTE VITRIFICATION PLANT

DESIGN CHANGE NOTICE

DCN - 0183

REV 0

PAGE 1 OF 3

DCN TITLE

DATE INITIATED

April 12, 1994

UPDATE UTILITY
SOURCE DESIGN
INFORMATION

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.

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)

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

SECTION 2: EVALUATION

WAPA DWG/SPEC? NO YES
 QUALITY LEVEL 1 DWG/SPEC? NO YES
 SAFETY CLASS 1 OR 2 DWG/SPEC? NO YES
 SYSTEMS ANALYSES AFFECTED? NO YES
 MULTI-DISCIPLINE CHANGE? NO YES

IF "YES", ADDITIONAL REVIEW REQUIRED BY:

REVIEWER COMMENTS AND SIGNATURE/DATE

DCN Evaluated by: Systems Jay Thompson 4/18/94 ADM A. Clove Others _____

SECTION 3: APPROVED FOR CONSTRUCTION

Originator J. Coliga 4/18/94 Date 4/18/94 Project/Resident Engineer R. Bebell by A. Clove 4/18/94 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

REV DISCIPLINE PKG. NO. PAGE

DCN - 0183

0

CONTROL
SYSTEMS

A160

2

DESIGN CHANGE NOTICE

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

DISCIPLINE ENGINEER: *J. [Signature]* 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.

 FLUOR DANIEL		U.S. DEPARTMENT OF ENERGY HANFORD WASTE VITRIFICATION PLANT		DESIGN CHANGE NOTICE	
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>[Signature]</i>	DATE: <i>4/18/94</i>	DCN-0183		REV 0	PAGE 3
DISCIPLINE ENGINEER: <i>[Signature]</i>	DATE: <i>4/18/94</i>				