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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: July 29, 1994

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

Transmittal No.: WDOE-970

Dear Mr. Grantham:

TRANSMITTAL

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

Approval Reference Review and Comment DCN-RFC

Response due to Fluor: N/A
Responds to: A170 PACKAGE

NUMBER	REV	DATE	TITLE
DCN - 0195	0	07/27/94	REVISED TESTING SPEC. FOR GROUNDING RESISTANCE  "RELEASED FOR CONSTRUCTION"

Reference: FRP-1471, FUP-890
Distribution:
R. L. Long - DOE-RL, w/0
TWP/AME Corresp Cntrl Cntr MSIN A5-10
(A170 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 P. 1/
R.S. Poulter
Project Director

RSP:KKS:fps

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HUI R DANIEL

US DEPARTMENT OF ENERGY
HANFORD WASTE VITRIFICATION PLANT

DESIGN CHANGE NOTICE

DCN - 0195

REV 0

PAGE 1 OF 3

DCN TITLE
Revised Testing Spec. for
Grounding Resistance

DATE INITIATED
06-15-94
PACKAGE NO.
A170

SECTION 1: DESCRIPTION OF CHANGE

1. Revised ground loop earth resistance requirements.

CAUSE OF CHANGE:

- Field Change Request
- Supplier Disposition
- Deficiency Report
- Design Development
- Change Request
- TBD/Hold
- Other _____

FRR-01039A
Initiating Document(s)
SDR C170-07-5092-72B

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

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 checked="" type="checkbox"/> NO <input type="checkbox"/> YES	_____	_____
DCN Evaluated by: Systems <u>J. Dancy</u> ADM <u>Bruce R. Ciesla</u> Others _____		

SECTION 3: APPROVED FOR CONSTRUCTION

Originator J. Dancy Date 6/20/94 Project/Resident Engineer Bruce R. Ciesla Date 6/20/94

SECTION 4: CONCURRENCE

[Signature] 7/5/94 Date
Project Management

[Signature] 7-6-94 Date
Systems

[Signature] 7-11-94 Date
Independent Safety for J.G. KELCY

[Signature] 7-12-94 Date
Quality Assurance

[Signature] 7-6-94 Date
Configuration Management

SECTION 5: RELEASED FOR CONSTRUCTION

PE STAMP REQUIRED? NO YES

[Signature] 7/13/94 Date
WHC

[Signature] 7/13/94 Date
UCM FOR MED

[Signature] 27 JUL 94 Date
DOE

COMMENTS:

9513358.0986



FLUOR DANIEL

US DEPARTMENT OF ENERGY
HANFORD WASTE VITRIFICATION PLANT

DCN - 0195

REV

0

DISCIPLINE

Electrical

PKG. NO.

A170

PAGE

2

PREPARED BY: M. Weimer

Date: 06-20-94

DESIGN CHANGE NOTICE

DISCIPLINE ENGINEER: K. K. Srivastava

Date: 06-20-94

SECTION 6: CONSTRUCTION DOCUMENTS AFFECTED

DOCUMENT NUMBER	SHT/PAGE	REV NO	DOCUMENT NAME	INCLD Y/N	DESCRIPTION OF CHANGE
Specification B-595-C-A170-16905	5	1	Electrical Testing	Y	Revised Paragraph 3.2.3.3 for loop earth resistance requirements.

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
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N/A

9513350-0907

3.2.3.3 The earth resistance of each ground electrode shall be measured and recorded before electrodes are connected to the grounding loop. ~~Electrodes in each ground loop shall be sufficient to give a ground loop earth resistance less than one ohm. Ground loop electrode tests may be suspended upon achieving required loop resistance.~~ Ground loop resistance tests shall comply with NEC.

 FLUOR DANIEL		U.S. DEPARTMENT OF ENERGY HANFORD WASTE VITRIFICATION PLANT		DESIGN CHANGE NOTICE	
DESCRIPTION OF CHANGE Revised ground loop earth resistance requirements.				BASE DOC. NO. A170-16905 B-595-C-A170-16905 SHT/PG. 5 REV. 01	
				DISCIPLINE: Electrical	
PREPARED BY: M. Weimer		DATE: 06-20-94		DCN - 0195	REV 0
DISCIPLINE ENGINEER: K. K. Srivastava <i>kk Srivastava</i>		DATE: 06-20-94			