START 5M5337.0057

0040544

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: December 17, 1993

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

Transmittal No.: WDOE-794

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 [X] DCN-RFC

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

NUMBER	REV	DATE	TITLE
DCN - #0131	0	12/03/93	DCN TITLE: ADD INSTR. AIR BOTTLES AND REPLACED INSTR. AIR WITH PLANT AIR @ UTILI. STA. IN THE FW PUMP HOUSE BD 20. "RELEASED FOR CONSTRUCTION"

Reference: FRP-1340, FUP-764
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

DEC 1993
RECEIVED
EPIC

Very truly yours,

Nazy Eshraghi for

R.S. Poulter
Project Director

RSP:RAC:nre

9513337.0030

FLUOR DANIEL

US DEPARTMENT OF ENERGY
HANFORD WASTE VITRIFICATION PLANT

DESIGN CHANGE NOTICE

DCN - 0131	REV 0	PAGE 1 OF 15
DCN TITLE ADD INSTR. AIR BOTTLES AND REPLACED INSTR. AIR WITH PLANT AIR @ UTIL. STA. IN THE FW PUMP HSE BD 20		DATE INITIATED 10-25-93
		PACKAGE NO. A160

SECTION 1: DESCRIPTION OF CHANGE

ADDED INSTRUMENT AIR BOTTLES FOR CONTROL VALVE. REPLACE INSTRUMENT AIR WITH PLANT AIR AT UTILITY STATION IN THE FIRE WATER PUMP HOUSE BD-20. (THIS DCN RELEASES CONSTRUCTION HOLD NO. FD-343 PREVIOUSLY SHOWN ON DCN-0053)

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

CAUSE OF CHANGE:

- ☐ Field Change Request
- ☐ Supplier Disposition
- ☐ Deficiency Report
- ☐ Design Development
- ☒ Change Request
- ☐ Other _____

CR-1069
Initiating Document(s)

SECTION 2: EVALUATION

ARE ANY OF THE FOLLOWING AFFECTED?		IF "YES" REVIEW REQUIRED BY:	REVIEWER COMMENTS/SIGNATURE/DATE
WAPA	☑ NO ☐ YES		
QUALITY LEVEL I	☑ NO ☐ YES		
SAFETY CLASS 1 OR 2	☑ NO ☐ YES		
SYSTEMS ANALYSES	☑ NO ☐ YES		
MULTI-DISCIPLINE	☐ NO ☑ YES	C/S	10-25-93 N/A

DCN Evaluated by: Systems 10/25/93 ADM 10/26/93 Others _____

SECTION 3: APPROVED FOR CONSTRUCTION

Robert A. Calaya
Originator

M. H. Patterson 10/27/93
Project/Resident Engineer Date

SECTION 4: CONCURRENCE

Edward Jacobs 11-22-93
Project Management Date

Homer E. Savage 11-22-93
Systems Date

M. J. Figueroa 11/22/93
Independent Safety Date

11/22/93
Quality Assurance Date

R D Crawford 11/23/93
Configuration Management Date

SECTION 5: RELEASED FOR CONSTRUCTION

PE STAMP REQUIRED? ☐ NO ☑ YES (16)

11/23/93
WHC 11/23/93 Date

12-3-93
UCAT Date

DOE 11/23/93 Date

COMMENTS:

FLUOR DANIEL

US DEPARTMENT OF ENERGY
HANFORD WASTE VITRIFICATION PLANT

DESIGN CHANGE NOTICE

DCN	REV	DISCIPLINE	PACKAGE NO.	PAGE
-0131	0	CONTROL SYS	A160	2

PREPARED BY: Richard J Robert Date: 10/25/93

DISCIPLINE ENGINEER: Debbie Kennedy Date: 10/25/93

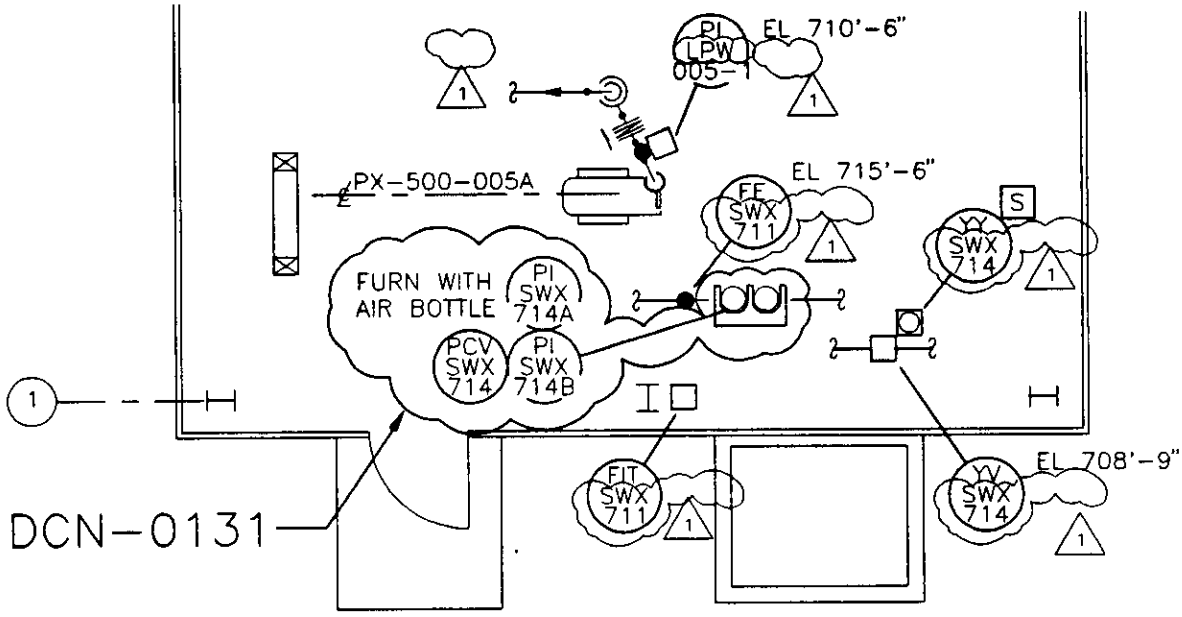
SECTION 6: CONSTRUCTION DOCUMENTS AFFECTED

DOCUMENT NUMBER	SHEET OR PAGE	REV NO	DOCUMENT NAME	INCLUDED Y/N	DESCRIPTION OF CHANGE
H-2-121203	1	1	INSTRUMENT LOCATION PLAN BUILDING 20	Y	ADDED AIR BOTTLE, RACK AND ASSOCIATED INSTRUMENTS
H-2-121423	1	1	INSTRUMENT INSTALLATION DETAILS	Y	ADDED INSTRUMENT TAG'S TO DETAIL
SPECIFICATION SECTION 17704 (ATTACHMENT B)	5	2	GENERAL INSTRUMENTATION INSTALLATION AND TESTING	Y	ADDED IAS DETAIL No. REFERENCE
SPECIFICATION SECTION 17704 (ATTACHMENT B)	NA	2	GENERAL INSTRUMENTATION INSTALLATION AND TESTING	Y	ADDED INSTRUMENTS ASSOCIATED WITH AIR BOTTLE

SECTION 7: NON-CONSTRUCTION DOCUMENTS AFFECTED

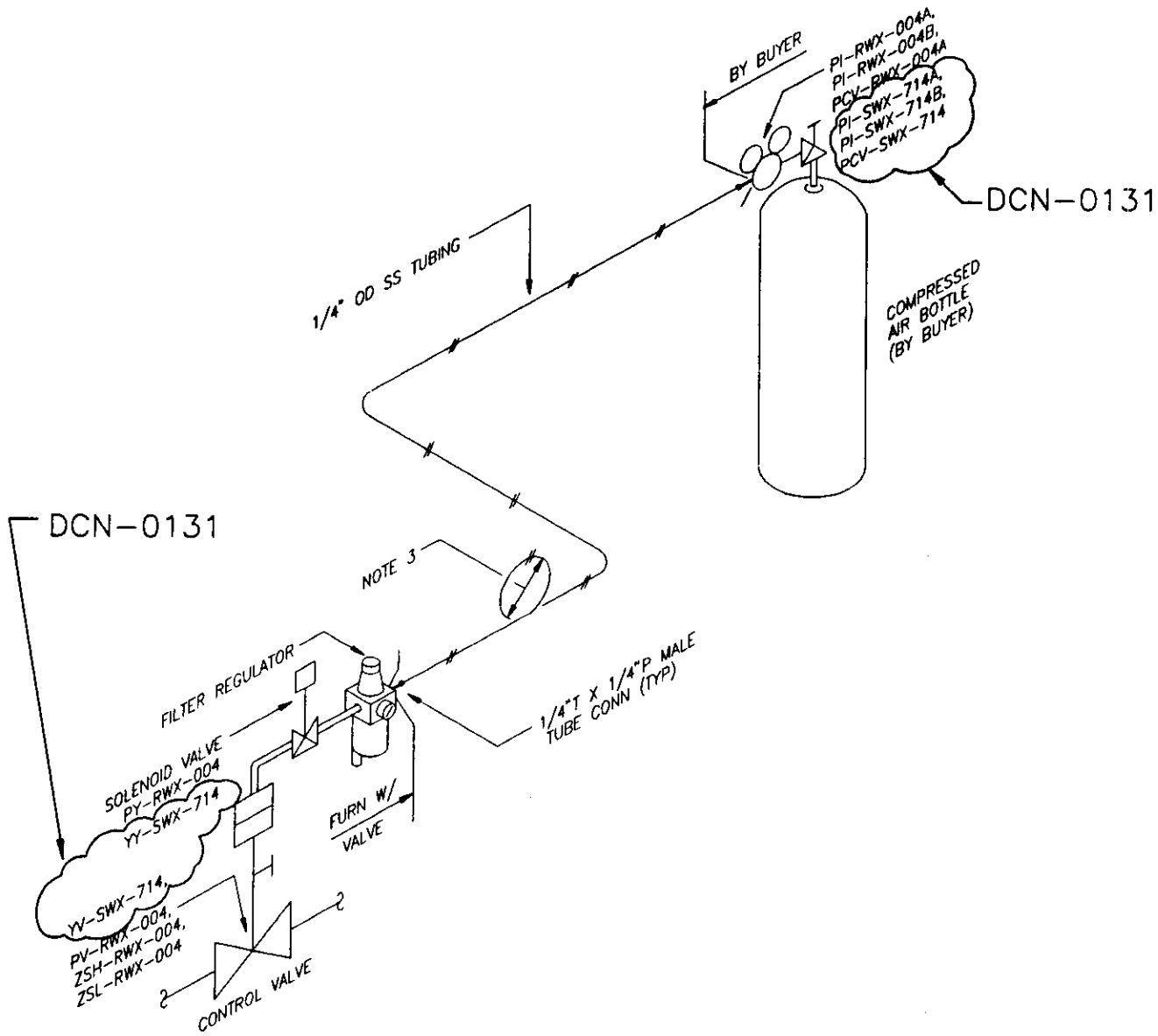
This section references affected items such as P&IDs or calculations/analyses, but they are generally not included in DCN package.

DOCUMENT NUMBER	SHEET OR PAGE	REV NO	DOCUMENT NAME	DESCRIPTION OF CHANGE
H-2-173358	2	3	SYSTEM 50 FIRE & PROCESS WATER STORAGE	ADDED AIR BOTTLE AND ASSOCIATED INSTRUMENTS FOR 44-SNX-714



FLUOR DANIEL	U.S. DEPARTMENT OF ENERGY HANFORD WASTE VITRIFICATION PLANT	DESIGN CHANGE NOTICE		
DESCRIPTION OF CHANGE: ADD INSTR AIR BOTTLES FOR CONTROL VALVE AND REPLACE INSTR AIR WITH PLANT AIR @ UTILITY STA FIRE WATER PUMP HOUSE BD 20		BASE DOC. NO. H-2-121203 SHT/PG. 1 REV. 1 CR NO. 1069 DISCIPLINE: CONTROL SYS		
PREPARED BY: Richard J. Robert	DATE: 10/25/93	DCN-0131	REV. 0	PAGE 3
DISCIPLINE ENGINEER: Michele Kinnecky	DATE: 10/25/93			

9513557.0041



ASSEMBLY 6

COMPRESSED AIR BOTTLE
TO CONTROL VALVE

MATERIAL CLASS ZJ

FLUOR DANIEL	U.S. DEPARTMENT OF ENERGY HANFORD WASTE VITRIFICATION PLANT	DESIGN CHANGE NOTICE
DESCRIPTION OF CHANGE: ADD INSTR AIR BOTTLES FOR CONTROL VALVE AND REPLACE INSTR AIR WITH PLANT AIR @ UTILITY STA FIRE WATER PUMP HOUSE BD 20		BASE DOC. NO. H-2-121423 SHT/PG. 1 REV. 1 CR NO. 1069 DISCIPLINE: CONTROL SYS
PREPARED BY: Richard J Robert	DATE: 10/25/93	DCN-0131 / REV. 0 / PAGE 4
DISCIPLINE ENGINEER: Mikkel Kennedy	DATE: 10/25/93	

DCN - 0131

U.S. DEPARTMENT OF ENERGY
HANFORD WASTE VITRIFICATION PLANT
RICHLAND, WASHINGTON
DOE CONTRACT DE-AC06-86RL10838

D=DIRECT
E=ELECTRICAL
P=PROCESS PIPING
C=COMBINATION

INSTALLATION INDEX
SPECIFICATION SECTION 17704, ATTACHMENT B
09/07/93

REV			P&ID		(NEW) INSTRUMENT TAG NUMBER	PNL \ RACK	INSTL TYPE	LOCATION PLAN DWG	INSTALLATION ASSEMBLIES				ELECTRICAL	TEST PRESS	NOTES
	BDG	RM	NUMBER	SHT					PROCESS	PNEUMATIC	IAS	SUPPORT	INSTL ASSY		
2	20	--	123358	02	YV-SWX-714	NA	P	121203	---	---	---	---	---	---	---
2	20	--	123358	02	YY-SWX-714	NA	C	121203	---	---	121423/6	---	X01	---	---
2	21	--	123358	03	PI-RWX-039	NA	P	121204	121422/3	---	---	---	---	165	---
2	21	--	123358	03	PDL-RWX-040	LP-500-008A	E	121204	---	---	---	---	---	---	2
2	21	--	123358	03	PDSH-RWX-040	NA	C	121204	121424/1	---	---	121380/2	X02	165	---
2	21	--	123358	03	PV-RWX-040	NA	C	121201	---	---	---	---	X01	---	---
2	21	--	123358	03	HS-RWX-043-1	LP-500-001A	E	121204	---	---	---	---	---	---	2
2	21	--	123358	03	IT-RWX-043-1	LP-500-001A	E	121204	---	---	---	---	---	---	2
2	21	--	123358	03	KS-RWX-043-1	LP-500-001A	E	121204	---	---	---	---	---	---	2
2	21	--	123358	03	YC-RWX-043-1	LP-500-001A	E	121204	---	---	---	---	---	---	2
2	21	--	123358	03	HS-RWX-043-2	LP-500-001B	E	121204	---	---	---	---	---	---	2
2	21	--	123358	03	IT-RWX-043-2	LP-500-001B	E	121204	---	---	---	---	---	---	2
2	21	--	123358	03	KS-RWX-043-2	LP-500-001B	E	121204	---	---	---	---	---	---	2
2	21	--	123358	03	YC-RWX-043-2	LP-500-001B	E	121204	---	---	---	---	---	---	2
2	21	--	123358	03	II-RWX-0438-1	LP-500-001A	E	121204	---	---	---	---	---	---	2
2	21	--	123358	03	II-RWX-0438-2	LP-500-001B	E	121204	---	---	---	---	---	---	2
2	21	--	123358	03	PI-RWX-044-1	NA	P	121204	121422/3	---	---	---	---	165	---
2	21	--	123358	03	PI-RWX-044-2	NA	P	121204	121422/3	---	---	---	---	165	---
2	21	--	123358	03	YC-RWX-049	LP-500-001B	E	121204	---	---	---	---	---	---	2
2	21	--	123358	03	YV-RWX-049	NA	D	121204	---	---	---	---	---	---	---
2	21	--	123358	03	YY-RWX-049	NA	C	121204	---	---	121423/4	---	X01	---	3
2	21	--	123358	03	ZSH-RWX-049	NA	E	121204	---	---	---	---	X13	---	3
2	21	--	123358	03	ZSL-RWX-049	NA	E	121204	---	---	---	---	W/ZSH	---	3
2	21	--	123358	03	PSL-RWX-051	NA	C	121204	121422/2	---	---	121380/3	X02	165	3
3	28	--	123358	04	LIT-FWX-501-1	NA	C	121205	121423/5	---	---	---	X03	---	---
3	28	--	123358	04	LIT-FWX-501-2	NA	C	121205	121423/5	---	---	---	X03	---	---

9512297.0042

DCN-0131 REV.0 PAGE 5

U.S. DEPARTMENT OF ENERGY
HANFORD WASTE VITRIFICATION PLANT
RICHLAND, WASHINGTON
DOE CONTRACT DE-AC06-86RL10838

D=DIRECT
E=ELECTRICAL
P=PROCESS PIPING
C=COMBINATION

INSTALLATION INDEX
SPECIFICATION SECTION 17704, ATTACHMENT B
09/07/93

REV			P&ID		(NEW) INSTRUMENT TAG NUMBER	PNL \ RACK	INSTL TYPE	LOCATION PLAN DWG	INSTALLATION ASSEMBLIES				ELECTRICAL	TEST PRESS	NOTES
	BDG	RM	NUMBER	SHT					PROCESS	PNEUMATIC	IAS	SUPPORT	INSTL ASSY		
2	20	--	123950	02	PCV-SWX-714	---	P	121203	---	---	W/YY-714	---	---	---	4
2	20	--	123950	02	PI-SWX-714A	---	P	121203	---	---	W/YY-714	---	---	---	4
2	20	--	123950	02	PI-SWX-714B	---	P	121203	---	---	W/YY-714	---	---	---	4

DCN-0131

9511307.1004

DCN-0131 REV.0 PAGE 6

9513337.0844

FLUOR DANIEL

US DEPARTMENT OF ENERGY
HANFORD WASTE VITRIFICATION PLANT

DESIGN CHANGE NOTICE

DCN - 0131	REV 0	DISCIPLINE PIPING	PACKAGE NO. A160	PAGE 7

PREPARED BY: Robert A Clapp Date: 10-25-93

DISCIPLINE ENGINEER: J C Dunn Date: 10-25-93

SECTION 6: CONSTRUCTION DOCUMENTS AFFECTED

DOCUMENT NUMBER	SHEET OR PAGE	REV NO	DOCUMENT NAME	INCLUDED Y/N	DESCRIPTION OF CHANGE
H-2-124033	1	2	PIPING FW PUMP HOUSE & STOR TK PLAN	Y	ADDED PLANT AIR LINE PAX-1"-410-1556-G
H-2-124036	1	1	PIPING FW PUMP HOUSE & STOR TK SECTIONS	Y	ADDED PLANT AIR LINE PAX-1"-410-1556-G
H-2-126144	1	2	PIPING ISOMETRIC INDEX	Y	ADDED PLANT AIR LINE NO. 410-1556-G
H-2-126147	15	1	PIPING ISOMETRIC	Y	REVISED LN. NO. REF.
H-2-126148	3	1	PIPING ISOMETRIC	Y	DELETED INSTR. AIR TO UTIL. STA. & ADDED DUMMY SUPT. SDS-1
H-2-126148	9	0	PIPING ISOMETRIC	Y	NEW ISOMETRIC DWG. FOR PLANT AIR TO UTIL. STA. LN.# PAX-1" 410.1556-G
15061 (ATTACHMENT C)	1	2	PIPING SPECIALTY ITEM LIST	Y	ADDED FLOW DIAGRAM NO. AND LINE NO.

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	SHEET OR PAGE	REV NO	DOCUMENT NAME	DESCRIPTION OF CHANGE
H-2-123350	4	6	P&ID SYST. 41 PLANT AIR DISTR.	N ADD PLANT AIR TO UTIL STA. @ FW PUMP HSE
H-2-123350	7	8	P&ID SYST. 41 INSTR. AIR DISTR.	N DELETED INSTR. AIR TO UTIL. STA.

9513332.0045

FLUOR DANIEL

US DEPARTMENT OF ENERGY
HANFORD WASTE VITRIFICATION PLANT

DESIGN CHANGE NOTICE

DCN – 0131	REV 0	DISCIPLINE PIPING	PACKAGE NO. A160	PAGE 8

PREPARED BY: Robert A. Galuya Date: 10-25-93

DISCIPLINE ENGINEER: J C Dunn Date: 10-25-93

SECTION 6: CONSTRUCTION DOCUMENTS AFFECTED

DOCUMENT NUMBER	SHEET OR PAGE	REV NO	DOCUMENT NAME	INCLUDED Y/N	DESCRIPTION OF CHANGE
DCN-0131 RELEASES CONSTRUCTION HOLDS (PREVIOUSLY SHOWN ON DCN-0053) ON THE FOLLOWING DRAWINGS AT BD-20.					
H-2-124033	1	2	PIPING FN PUMP HOUSE & STOR. TK PLAN	N	RELEASED HOLD NO. FD-343.
H-2-126148	3	0	PIPING ISOMETRIC	N	RELEASED HOLD NO. FD-343.

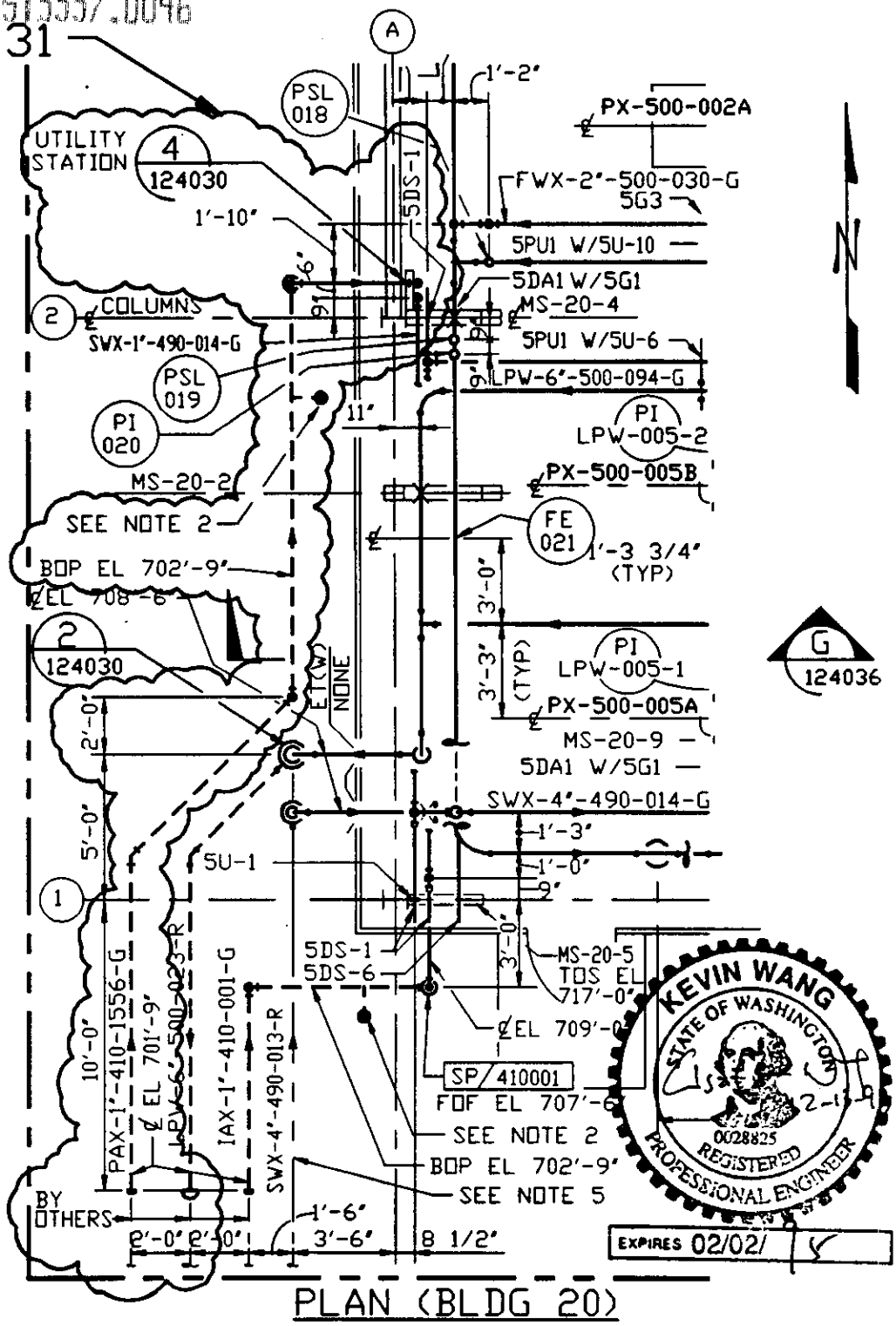
SECTION 7: NON-CONSTRUCTION DOCUMENTS AFFECTED

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

DOCUMENT NUMBER	SHEET OR PAGE	REV NO	DOCUMENT NAME	DESCRIPTION OF CHANGE

9515337.0046

DCN-0131



PLAN (BLDG 20)

FLUOR DANIEL	U.S. DEPARTMENT OF ENERGY HANFORD WASTE VITRIFICATION PLANT	DESIGN CHANGE NOTICE

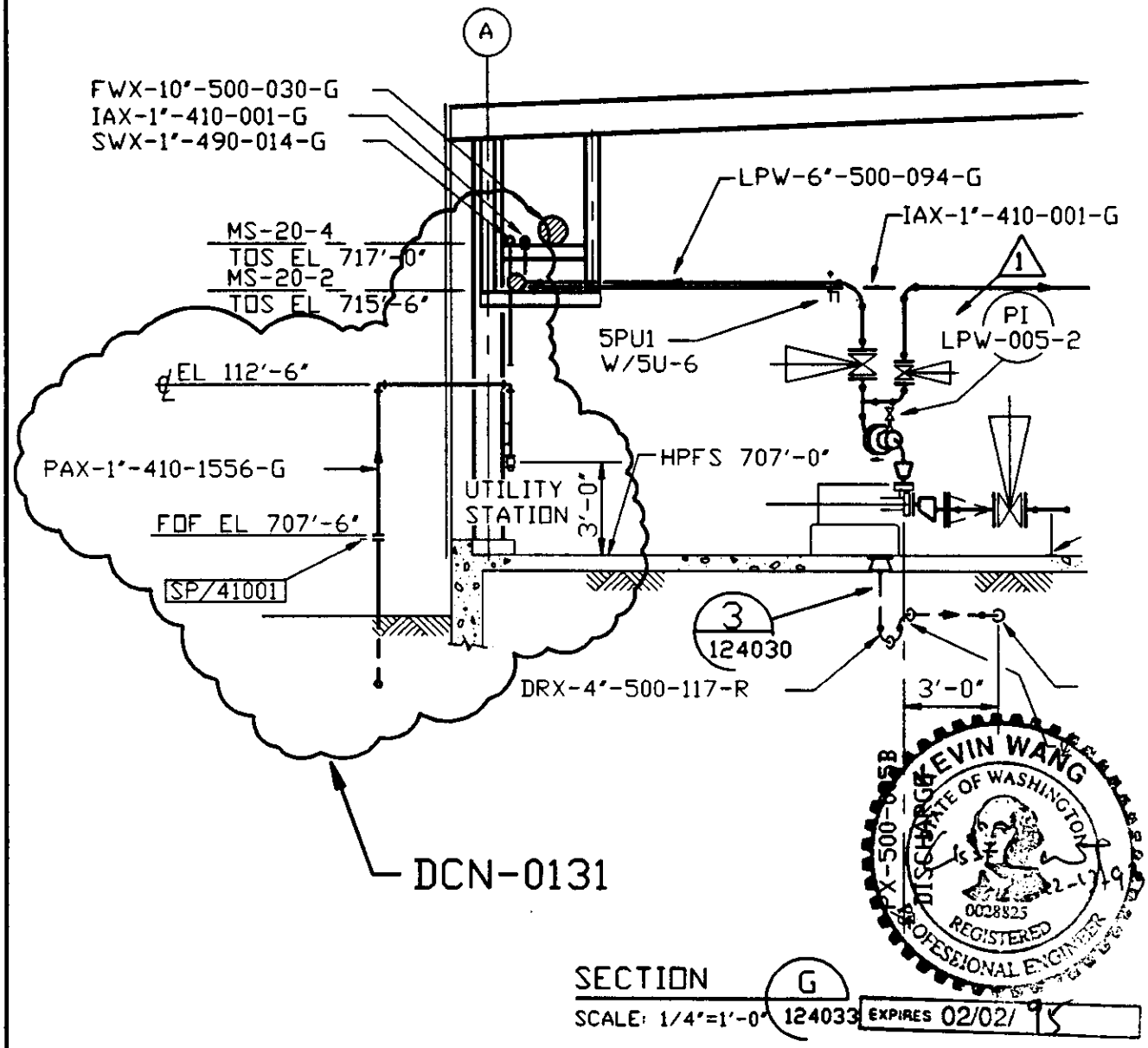
DESCRIPTION OF CHANGE:
ADDED PLANT AIR LINE NUMBER
PAX-1"-410-1556-G

BASE DOC. NO. H-2-124033
SHT/PG. 1 REV. 2
CR NO. 1069
DISCIPLINE PIPING

PREPARED BY: Robert L. Calaya	DATE: 10-25-93	DCN- 0131	REV. 0	PAGE 9
DISCIPLINE ENGINEER: J.C. Duss	DATE: 10-25-93			

CADFILE: DCN0131A ACAD D.P.L. 10-25-93

9513337.0847



FLUOR DANIEL	U.S. DEPARTMENT OF ENERGY HANFORD WASTE VITRIFICATION PLANT	DESIGN CHANGE NOTICE

DESCRIPTION OF CHANGE:
ADDED PLANT AIR LINE NUMBER
PAX-1"-410-1556-G

BASE DOC. NO. H-2-124036
SHT/PG. 1 REV. 1
CR NO. 1069
DISCIPLINE PIPING

PREPARED BY: Robert A Colaya	DATE: 10-25-93	DCN- 0131	REV. 0	PAGE 10
DISCIPLINE ENGINEER: J P Cruse	DATE: 10-25-93			

CADFILE: DCN0131B ACAD D.P.L. 10/25/93

9513337.0046

LINE NUMBER	DRAWING NUMBER	REV
490-014-G SH 3	H-2-126147 SH 10	1
500-039-G SH 1	SH 11	1
500-025-G SH 1	SH 12	0
490-014-G SH 2	SH 13	1
490-014-G SH 1	SH 14	1
490-014-G SH 5	SH 15	1
500-031-G SH 1	(VOIDED) SH 16	1
500-036-G SH 1	H-2-126147 SH 17	0
500-087-G SH 1	SH 18	0
500-111-G SH 1	SH 19	0
500-094-G SH 1	SH 20	1
500-022-G SH 1	H-2-126148 SH 1	1
500-022-G SH 2	SH 2	1
410-001-G SH 1	SH 3	1
500-019-G SH 1	SH 4	0
530-007-G SH 1	SH 5	0
530-009-G SH 1	SH 6	1
490-014-G SH 4	SH 7	0
490-010-G SH 1	SH 8	0
410-1556-G SH 1	SH 9	0

2

KEVIN WANG
STATE OF WASHINGTON
0028325
REGISTERED
PROFESSIONAL ENGINEER
12-1-93
EXPIRES 02/02/95

DCN-0131

FLUOR DANIEL

U.S. DEPARTMENT OF ENERGY
HANFORD WASTE VITRIFICATION PLANT

DESIGN CHANGE NOTICE

DESCRIPTION OF CHANGE:
ADDED PLANT AIR LINE NUMBER
PAX-1"-410-1556-G

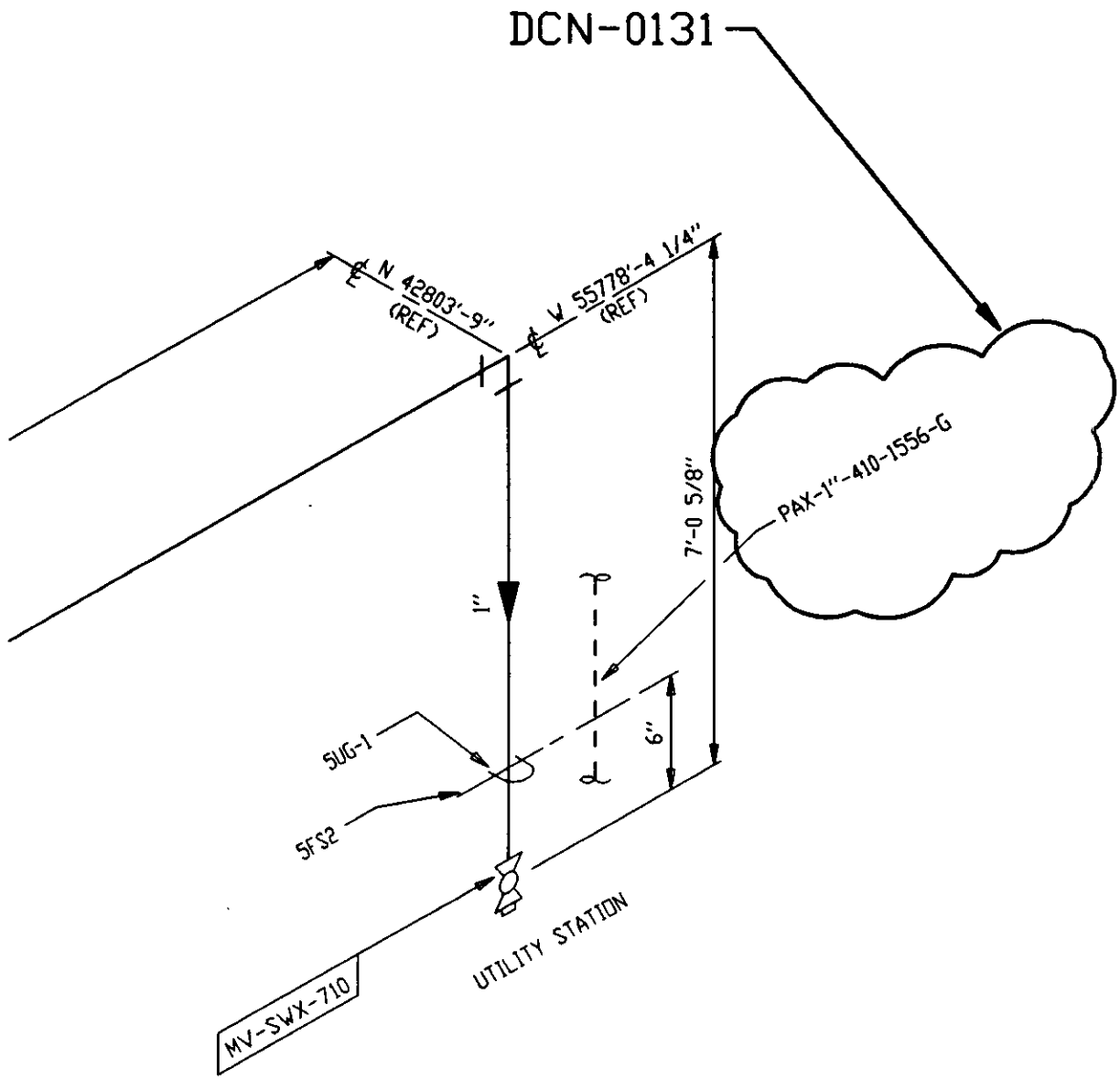
BASE DOC. NO. H-2-126144
SHT/PG. 1 REV. 2
CR NO. 1069
DISCIPLINE: PIPING

PREPARED BY: Robert A. Calaya DATE: 10-25-93
DISCIPLINE ENGINEER: J.C. Wu DATE: 10-25-93

DCN- 0131	REV. 0	PAGE 11

CADFILE: DCN0131F ACAD D.P.L. 10-25-93

9513337.0049



FLUOR DANIEL	U.S. DEPARTMENT OF ENERGY HANFORD WASTE VITRIFICATION PLANT	DESIGN CHANGE NOTICE

DESCRIPTION OF CHANGE:
REPLACED IAX LINE NUMBER WITH PLANT AIR LINE NUMBER PAX-1"-410-1556-G

BASE DOC. NO. H-2-126147
SHT/PG. 15 REV. 1
CR NO. 1069
DISCIPLINE PIPING

PREPARED BY: Robert A. Galaya	DATE: 10-25-93	DCN- 0131	REV. 0	PAGE 12
DISCIPLINE ENGINEER: J C Dunn	DATE: 10-25-93			

CADFILE: DCN031C ACAD D.P.L. 10/25/93

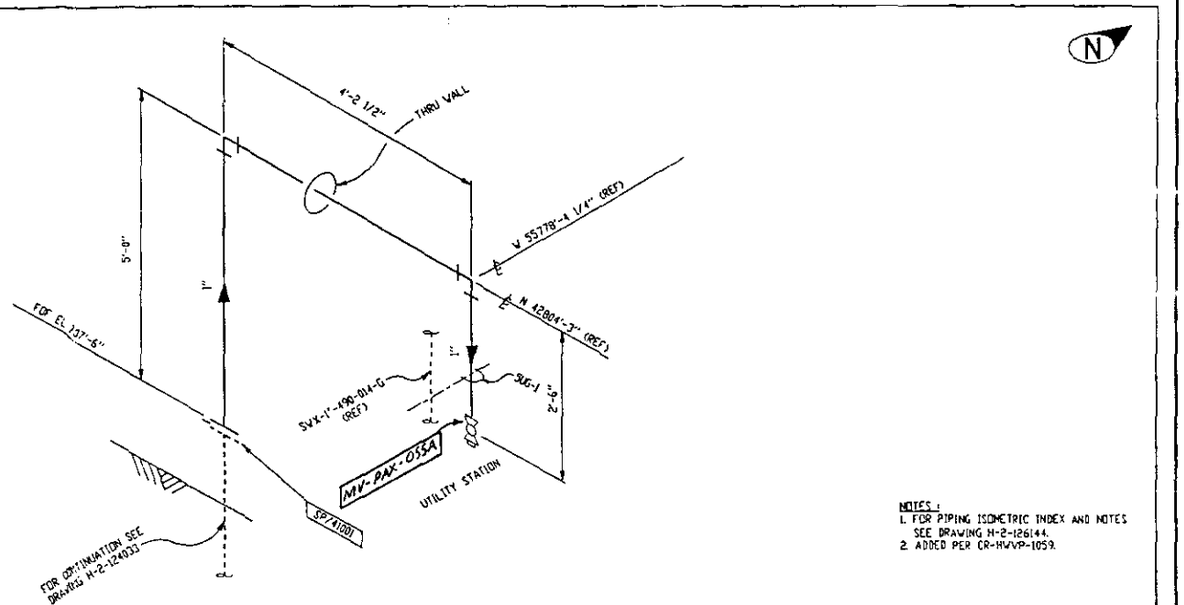
9513337.0051

FLUOR DANIEL

BILL OF MATERIAL FOR REFERENCE ONLY

BILL OF MATERIAL	DATE	CONTRACT		LINE NUMBER	CLASS	SHEET	REV
	10/22/93	8457	000	410-1556	G	1	0

REV.	ITEM CODE	QUANTITY	SIZE	DESCRIPTION
				**** ASSEMBLY MATERIAL ****
0	5601738	1	01	FLG SW CL 150 RF STL SCH 80 A105
0	5858186	12	01	PIPE SCH 80 ERW STL A53-B
0	SP41001	1	01	CL 150 FLANGE INSUL KIT W/ 1/8" GASKET
0	5478105	2	01	ELL 90 DEG CL 3000 SW STL A105
0	5490665	1	01	PLUG ROUND HEAD SCRD STL A105
0	5858822	1	01	BALL 600 PSI WOG SCRD BRONZE, HDL OPR
0	5675648	4	1/2 02 1/4	STUD-BOLT A193 GR B7 W/A194 GR 2H NUTS
0	SU-1	1	01	U-BOLT 1"



NOTES :
1. FOR PIPING ISOMETRIC INDEX AND NOTES SEE DRAWING H-2-126144.
2. ADDED PER CR-HWVP-1059.

QUALITY LEVEL II
SAFETY CLASS 3

REV.	TYPE	BY	DATE	CHK'D	APP'D	MAT'L	STRESS
0	SEE NOTE 2	D.P.L					

INSULATION	PH	IS	IC	IA	NONE
TOTAL ISO					X
PARTIAL ISO					

FABRICATION SPECIFICATION: B-595-C-A150 SECTION 15061

HEAT TRACING REQUIREMENTS	YES	NO
TRACING MEDIUM _____		X
TRACER: QTY ____ SIZE ____		X
ELECTRIC TRACE		X
HEAT TRANSFER CEMENT REQUIRED		X

CONDITION	PRESS.(PSIG)	TEMP.(°F)	SERVICE
DESIGN	150	150	PLANT AIR
OPERATING	105	105	VAPOR X LIQUID

REFERENCE PLAN DWG: H-2-124033
REFERENCE P&ID: H-2-123350-4
SECTION: E/1

FLUOR DANIEL, INC.
ADVANCED TECHNOLOGY DIVISION

CADFILE: B126148J
CADCODE: 29:18M;ACD2;10.C2;SN
DRAWN BY: D.P. LOSSNER
DATE: 10/22/93
CLASSIFICATION: NONE BY: NOT REQUIRED
LINE NUMBER AND CLASS: 410-1556-G
SHEET 1 OF 1

U.S. DEPARTMENT OF ENERGY
Richland Operations Office
DE-AC06-86RL 10838

PROJECT TITLE: HANFORD WASTE VITRIFICATION PLANT
PROJECT: B-595
FLUOR CONTRACT NO.: 8457
CWBS NO.: A160
SCALE: NONE
BUILDING NO.: 20
INDEX NO.:
DRAWING NUMBER: H-2-126148
SHEET: 9
OF
REV.: 0

DISTRIBUTION CODE: 504
ACAD
D.P.L. 10/22/93

FLUOR DANIEL — U.S. DEPARTMENT OF ENERGY
HANFORD WASTE VITRIFICATION PLANT

DESIGN CHANGE NOTICE

DESCRIPTION OF CHANGE
ADDED PLANT AIR LINE NUMBER
PAX-1"-410-1556-G

BASE DOC. NO. H-2-126148
SHT/PG. 9 REV. 0
CR NO. 1059
DISCIPLINE: PIPING CADFILE:

PREPARED BY: Robert A. Celaya DATE: 10-25-93
DISCIPLINE ENGINEER: J C Ruiz DATE: 10-25-93

DCN - 0131 REV. 0 PAGE 14

CADFILE : DCN0131E ACAD D.P.L. 10/22/93

9513337.0050

FLUOR DANIEL

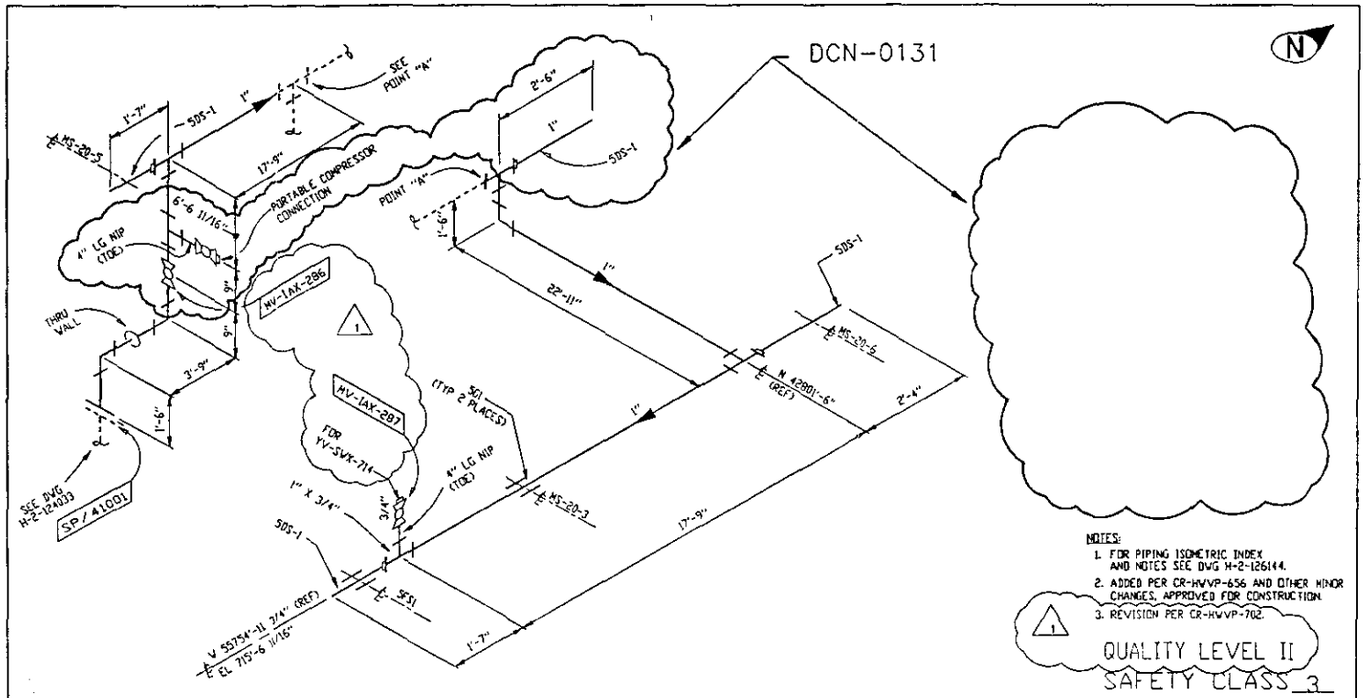
BILL OF MATERIAL FOR REFERENCE ONLY

BILL OF MATERIAL	DATE	CONTRACT	LINE NUMBER	CLASS	SHEET	REV
	10/25/93	8457	410-001	G	1	1

REV.	ITEM CODE	QUANTITY	SIZE		DESCRIPTION
					**** ASSEMBLY MATERIAL ****
	5601738	1		01	FLG SW CL 150 PF STL SCH 80 A105
	5858186	79		01	PIPE SCH 80 ERW STL A53-B
	SP41001	1		01	CL 150 FLANGE INSUL KIT W/ 1/8" GASKET
	5478105	3		01	ELL 90 DEG CL 3000 SW STL A105
	5478107	4		01	TEE CL 3000 SW STL A105
	5478107	1	01	3/4	TEE CL 3000 SW STL A105
	5478115	4		01	PLUG ROUND HEAD SW STL A105
	5490665	1		3/4	PLUG ROUND HEAD SCRD STL A105
	5490665	1		01	PLUG ROUND HEAD SCRD STL A105
	5840961	1	04	3/4	NIPPLE SCH 80 STL ERW A53-B TOE
	5840961	1	04	01	NIPPLE SCH 80 STL ERW A53-B TOE
	5858829	1		3/4	BALL 600 PSI WOG SCRD BRONZE, HDL OPR
	5858822	2		01	BALL 600 PSI WOG SCRD BRONZE, HDL OPR
	5675648	4	1/2	02 1/4	STUD-BOLT A193 GR B7 W/A194 GR 2H NUTS
	5FS1	1		01	FIELD SUPPORT
	5GI	2		01	GUIDE

DCN-0131

DCN-0131



NOTES:
1. FOR PIPING ISOMETRIC INDEX AND NOTES SEE DWG H-2-126144.
2. ADDED PER CR-HVVP-656 AND OTHER MINOR CHANGES, APPROVED FOR CONSTRUCTION.
3. REVISION PER CR-HVVP-702.

QUALITY LEVEL II
SAFETY CLASS 3

REV.	TYPE	BY	DATE	CHK'D	APP'D	M'TL	STRESS
1	SEE NOTE 3	RAC					
0	SEE NOTE 2	JCD	8-5-92	GVL	JCD		JGILL

INSULATION: TOTAL ISO; PARTIAL ISO; TRACING MEDIUM; TRACER: QTY ____ SIZE ____; HEAT TRANSFER CEMENT REQUIRED

IH | IS | IC | IA | NONE

FABRICATION SPECIFICATION: B-595-C-A160 SECTION 15061

CONDITION	PRESS (PSIG)	TEMP. (°F)	SERVICE
DESIGN	150	150	INSTRUMENT AIR
OPERATING	85	90	VAPOR Y LIQUID

REFERENCE PLAN DWG: H-2-124033
REFERENCE P&ID: H-2-123350-7
LOCATION: B/2
LINE NUMBER AND CLASS: 4"-0-001-G
CLASSIFICATION: NONE BY: NOT REQUIRED
SHEET 1 OF 1

FLUOR DANIEL, INC.
ADVANCED TECHNOLOGY DIVISION

CADFILE: B126148C
CADCODE: 2B:I8M:ACD2:10.C2:SN
DRAWN BY: J. E. DUHON
DATE: 4-23-92

U.S. DEPARTMENT OF ENERGY
Richland Operations Office
DE-AC06-86RL 10838

PROJECT TITLE: HANFORD WASTE VITRIFICATION PLANT
PROJECT: B-595
FLUOR CONTRACT NO.: 8457
CWBS NO.: A160
SCALE: NONE
BUILDING NO.: 20
INDEX NO.:
TOTAL SHEETS INVOLVED: H-2-126148 (SHEET 3 OF 1, REV 1)

DISTRIBUTION CODE: 504
ACAD
R.A.C. 5-17-93

FLUOR DANIEL — U.S. DEPARTMENT OF ENERGY
HANFORD WASTE VITRIFICATION PLANT

DESIGN CHANGE NOTICE

DESCRIPTION OF CHANGE:
ADDED 5DS-1, RELOCATED 1" COMPRESSOR CONNECTION AND REMOVED UTILITY STATION FROM LINE 1AX-1"-410-001-G

BASE DOC. NO. H-2-126148
SHT/PG. 3 REV. 1
CR NO. 1069
DISCIPLINE: PIPING
CADFILE: DCN0131D

PREPARED BY: Robert A. Gelaya DATE: 10-25-93
DISCIPLINE ENGINEER: J C Duhon DATE: 10-25-93

DCN - 0131 REV. 0 PAGE 13

ACAD D.P.L. 10/25/93

9515337.0052

ATTACHMENT C
PIPING SPECIALTY ITEM LIST

SYSTEM NO. 41
SHEET NO. 1 OF 1, REV. 1
DATE 5/5/92, BY CI

SP/_/_____ THIS SYMBOL ON FLOW DIAGRAMS OR DRAWINGS DENOTES A PIPING SPECIALTY ITEM NOT OTHERWISE COVERED BY PIPING SPECIFICATIONS.

REV.	SP NUMBER	SIZE	FLOW DIAGRAM	LINE NUMBER	DESCRIPTION
1	41001	1"	H-2-123350 SH. 7 OF 8 H-2-123350 SH 4	410-001 410-003 410-1556	FLANGE INSULATION KIT, CL 150 FF/RF, CONSISTING OF ONE SET EACH FULL LENGTH PHENOLIC BOLT/STUD SLEEVES, PHENOLIC WASHERS, AND STEEL BACK-UP WASHERS, F.H. MALONEY OR EQUAL, AND INSULATING GASKET WITH 1/8" THICK RETAINING ELEMENT AND NITRILE SEALING ELEMENT, PSI "GASKETSEAL" OR EQUAL. NOTE: BOLTING ONE SIZE SMALLER DIAMETER THAN STANDARD IS ACCEPTABLE WHERE STANDARD BOLTING WILL NOT FIT DUE TO ALIGNMENT TOLERANCES.

DCN-0131

KEVIN WANG
STATE OF WASHINGTON
00028625
REGISTERED
PROFESSIONAL ENGINEER
12-1-92
EXPIRES 02/02/93

FLUOR DANIEL	U.S. DEPARTMENT OF ENERGY HANFORD WASTE VITRIFICATION PLANT	DESIGN CHANGE NOTICE		
DESCRIPTION OF CHANGE: ADDED FLOW DIAGRAM NUMBER AND LINE NUMBER TO SP LIST		BASE DOC. NO. 15061 ATTACHMENT C SHT/PG. 1 REV. 2 CR NO. 1069 DISCIPLINE MATERIAL ENGINEERING		
PREPARED BY:	DATE 10/22/93	DCN- 0131	REV. 0	PAGE 15
DISCIPLINE ENGINEER:	DATE 10-25-93			

ACAD RC 10-22-93