START

0030017

2

Mr. John Grantham
State of Washington
Department of Ecology
Nuclear & Mixed Waste Program
P.O. Box 47600
Olympia, WA 98504-8711

FLUOR DANIEL, INC.

Date: February 08, 1993

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

Transmittal No.: WDOE-320

Dear Mr. Grantham:

TRANSMITTAL

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

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

NUMBER	REV	DATE	TITLE
H-2-123070 Sht 4	5	2/03/93	SYSTEM 58 PROCESS FRIT SLURRY PUMP & FILTER
H-2-123070 Sht 6	5	2/03/93	SYSTEM 58 DECON FRIT SLURRY PUMP & FILTER
			AND TABLE OF CONTENTS
CONTROLLED COPIES: 25 & 26			PLEASE REMOVE OLD REVISIONS AND TABLE OF CONTENTS FROM YOUR P&ID MANUAL AND REPLACE WITH THE ATTACHED REVISIONS.
			TO ACKNOWLEDGE RECEIPT OF THE DOCUMENTS LISTED ABOVE, PLEASE SIGN AND DATE A COPY OF THIS TRANSMITTAL FORM AND MAIL TO: FLUOR DANIEL HWVP - EDC - 513J 3333 MICHELSON DRIVE IRVINE, CA 92730

9 3 1 3 0 2 3 1 6 0 0

Distribution:
Reference:FRP-743, FUP-352
R. L. Long: DOE-RL W/O
TWP/AME Corresp Cntrl Cntr, MSIN A5-10
(SYSTEM 58),w/O
Environmental Data Management Center
(MSIN H4-22)w/1 #31
D. Duncan, US EPA, Region X w/O

H6-08

Very truly yours,

Rosalie Cadenas for /

R. S. Poulter
Project Director

RSP:FAL:ts

AUG 1993
RECEIVED
EDMC

PROCESS PIPING AND INSTRUMENT DIAGRAMS
VOLUME 1A
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NEW ISSUE	DRAWING NO.	SH NO	REV	DRAWING TITLE	CWBS NO
** VOLUME NUMBER: 1A					
	H-2-123001	01	4	LEGEND OF SYMBOLOGY FOR PROCESS FLOW AND PIPING AND INSTRUMENT DIAGRAMS	3201
	H-2-123001	02	4	LEGEND OF SYMBOLOGY FOR PROCESS FLOW AND PIPING AND INSTRUMENT DIAGRAMS	3201
	H-2-123001	03	4	LEGEND OF SYMBOLOGY FOR PROCESS FLOW AND PIPING AND INSTRUMENT DIAGRAMS	3201
	H-2-123001	04	4	LEGEND OF SYMBOLOGY FOR PROCESS FLOW AND PIPING AND INSTRUMENT DIAGRAMS	3201
	H-2-123001	05	4	LEGEND OF SYMBOLOGY FOR PROCESS FLOW AND PIPING AND INSTRUMENT DIAGRAMS	3201
	H-2-123030	01	0	P&ID SYSTEMS 12 & 20 CPC EMBED SPARES	6320
	H-2-123030	02	0	P&ID SYSTEMS 11,14, 15, 20 CPC EMBED SPARES	6320
	H-2-123030	03	0	P&ID SYSTEM 20C & 21 CDMC EMBED SPARES	6320
	H-2-123030	04	0	P&ID SYSTEM 21 REDC EMBED SPARES	6320
	H-2-123030	05	0	P&ID SYSTEM 16 CDC EMBED SPARES	6320
	H-2-123030	06	0	P&ID SYSTEM 13, 17, & 20C MELTER CELL EMBED SPARES	6320
	H-2-123030	07	0	P&ID SYSTEM 14 HEME CELL EMBED SPARES	6320
	H-2-123030	08	0	P&ID SYSTEM 14 & 15 SBS CELL EMBED SPARES	6320
	H-2-123030	09	0	P&ID SYSTEMS 12, 20 & 22 SEMI FIXED PIPEWAY	6320
	H-2-123030	10	0	P&ID SYSTEMS 12, 20 & 22	6320
	H-2-123030	11	0	P&ID SYSTEM 20C, 23 & 71 EMBED SPARES	6320
	H-2-123030	12	0	P&ID SYSTEM 14, 20C & 41 EMBED SPARES	6320
	H-2-123030	13	0	P&ID SYSTEMS 12 & 22 CPC EMBED SPARES	6320
	H-2-123030	14	0	P&ID SYSTEMS 20 CPC EMBED SPARES	6320
	H-2-123040	03	0	P&ID SYSTEM 11 FEED RECEIPT	6370
	H-2-123040	04	0	P&ID SYSTEM 11 FEED RECEIPT	6370
	H-2-123050	01	3	SYSTEM 11 RECEIPT AND LAG STORAGE TANK-A VOIDED DWG PER CR-0584	3211
	H-2-123050	02	3	SYSTEM 11 RECEIPT AND LAG STORAGE TANK-A VOIDED DWG PER CR-0584	3211
	H-2-123050	03	3	SYSTEM 11 RECEIPT AND LAG STORAGE TANK-A VOIDED DWG PER CR-0584	3210
	H-2-123050	04	3	SYSTEM 11 RECEIPT AND LAG STORAGE TANK-B VOIDED DWG PER CR-0584	3211
	H-2-123050	05	3	SYSTEM 11 RECEIPT AND LAG STORAGE TANK-B VOIDED DWG PER CR-0584	3211

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	H-2-123050	06	3	SYSTEM 11 RECEIPT AND LAG STORAGE TANK-B VOIDED DWG PER CR-0584	3211
	H-2-123050	07	3	RLST INTERFACE WITH CHEMICAL PROCESS CELL SYSTEM 11A/B VOIDED DWG PER CR-0584	3211
	H-2-123050	08	3	SYSTEM 11 RLST INTRA-AREA LINE LEAK DETECTION VOIDED DWG PER CR-0584	3211
	H-2-123051	01	3	SYSTEM 12 SLURRY RECEIPT & ADJUSTMENT TANK (SRAT)	3212
	H-2-123051	02	4	SYSTEM 12 SLURRY RECEIPT & ADJUSTMENT TANK (SRAT)	3212
	H-2-123051	03	4	SYSTEM 12 SLURRY RECEIPT & ADJUSTMENT TANK (SRAT)	3212
	H-2-123051	04	0	SYSTEM 12 SLURRY RECEIPT AND ADJUSTMENT TANK (SRAT)	3212
	H-2-123051	05	0	SYSTEM 12 SLURRY MIX EVAPORATOR (SME)	3212
	H-2-123051	06	3	SYSTEM 12 SLURRY MIX EVAPORATOR (SME)	3212
	H-2-123051	07	4	SYSTEM 12 SLURRY MIX EVAPORATOR (SME)	3212
	H-2-123051	08	4	SYSTEM 12 SLURRY MIX EVAPORATOR (SME)	3212
	H-2-123051	09	0	SYSTEM 12 SPARE FEED PREPARATION TANK (FUTURE)	6320
	H-2-123060	01	4	SYSTEM 20A WASTE ADJUSTMENT TANK (WAT-A)	3213
	H-2-123060	02	4	SYSTEM 20A WASTE ADJUSTMENT TANK (WAT-A)	3213
	H-2-123060	03	4	SYSTEM 20A DECON WASTE TREATMENT TANK (DWTT)	3213
	H-2-123060	04	4	SYSTEM 20A DECON WASTE TREATMENT TANK (DWTT)	3213
	H-2-123060	05	3	SYSTEM 20A DECON WASTE TREATMENT TANK (DWTT)	3213
	H-2-123060	06	4	SYSTEM 20A WASTE HOLD TANK (WHT)	3211
	H-2-123060	07	4	SYSTEM 20A WASTE HOLD TANK (WHT)	3211
	H-2-123060	08	6	SYSTEM 20C REMOTE MAINTAINED SUMP PUMPS/JETS	3214
	H-2-123060	09	6	SYSTEM 20C CONTACT MAINTAINED SUMP JETS	3214
	H-2-123060	10	4	SYSTEM 20C CONTACT MAINTAINED SUMP PUMPS	3214
	H-2-123060	11	1	SYSTEM 20A WASTE HOLD TANK (WHT)	3212
	H-2-123060	12	5	SYSTEM 20C SUMP INSTRUMENT/PIPING SUMMARY	3214
	H-2-123060	13	1	SYSTEM 20A DECON WASTE TREATMENT	3214

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TANK (DWTT)

9 3 1 3 0 3 1 6 0 3

PROCESS PIPING AND INSTRUMENT DIAGRAMS
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	H-2-123060	15	2	SYSTEM 20C SUMP INSTRUMENT / PIPING SUMMARY	3214
	H-2-123060	16		NOT USED	
	H-2-123060	17	4	SYSTEM 20A FILTER FEED TANK (FFT)	3213
	H-2-123060	18	4	SYSTEM 20A FILTER FEED TANK (FFT)	3213
	H-2-123060	19	4	SYSTEM 20A SBS FILTER	3213
	H-2-123060	20	4	SYSTEM 20A SBS FILTER	3213
	H-2-123060	21	4	SYSTEM 20A PRECOAT FEED TANK (PFT)	3213
	H-2-123060	22	1	SYSTEM 20D RECYCLE WASTE COLLECTION TANK (RWCT)	
	H-2-123060	23	5	SYSTEM 20C WARM WASTE HEADER	3214
	H-2-123060	24	5	SYSTEM 20C WARM WASTE HEADER	3214
	H-2-123060	25	3	SYSTEM 20C HOT/INTERMEDIATE WASTE HEADERS	3214
	H-2-123060	26	4	SYSTEM 20C JET VENT HEADER	3214
	H-2-123060	27	4	SYSTEM 20A WHT INTRA-AREA LINE LEAK DETECTION	3211
	H-2-123060	28	4	SYSTEM 20D SLURRY MIX EVAPORATOR CONDENSATE TANK (SMECT)	3212
	H-2-123060	29	3	SYSTEM 20D SLURRY MIX EVAPORATOR CONDENSATE TANK (SMECT)	3212
	H-2-123060	30	3	SYSTEM 20D RECYCLE WASTE COLLECTION TANK (RWCT)	3212
	H-2-123060	31	4	SYSTEM 20D RECYCLE WASTE COLLECTION TANK (RWCT)	3212
	H-2-123060	32	4	SYSTEM 20B WASTE ADJUSTMENT TANK (WAT-B)	3213
	H-2-123060	33	4	SYSTEM 20B WASTE ADJUSTMENT TANK (WAT-B)	3212
	H-2-123060	34	4	SYSTEM 20D RECYCLE WASTE COLLECTION TANK (RWCT)	3212
	H-2-123061	01	4	SYSTEM 22 MELTER FEED TANK (MFT)	3212
	H-2-123061	02	4	SYSTEM 22 MELTER FEED TANK (MFT)	3212
	H-2-123061	03	3	SYSTEM 22 MELTER FEED TANK (MFT)	3212
	H-2-123070	01	5	SYSTEM 58 DRY FRIT HANDLING	3210
	H-2-123070	02	4	SYSTEM 58 FRIT SLURRY MAKEUP TANK (FSMT)	3210
	H-2-123070	03	5	SYSTEM 58 PROCESS FRIT SLURRY FEED TANK (PFSFT)	3210
*	H-2-123070	04	5	SYSTEM 58 PROCESS FRIT SLURRY PUMP & FILTER	3210
	H-2-123070	05	4	SYSTEM 58 DECON FRIT SLURRY FEED TANK (DFSFT)	3210
*	H-2-123070	06	5	SYSTEM 58 DECON FRIT SLURRY PUMP & FILTER	3210

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	H-2-123150	01	4	SYSTEM 13 POUR TURNTABLE	3217
	H-2-123150	02	4	SYSTEM 13 POUR TURNTABLE	3217
	H-2-123150	03	4	SYSTEM 13 DRAIN TURNTABLE	3217
	H-2-123150	04	5	SYSTEM 13 MELTER THERMOCOUPLES FOR GLASS TEMPERATURE MEASUREMENT AND ELECTRODE CONTROL	3217
	H-2-123150	05	4	SYSTEM 13 MELTER DRAIN VALVE AND DRAIN BELLOWS	3217
	H-2-123150	06	5	SYSTEM 13 MELTER PRESSURE, LEVEL, AND POUR CONTROLS	3217
	H-2-123150	07	5	SYSTEM 13 MELTER TV CAMERA COOLING AND CLEANING	3217
	H-2-123150	08	5	SYSTEM 13 POWER AND CONTROL FOR MELTER ELECTRODES	3217
	H-2-123150	09	5	SYSTEM 13 POWER AND CONTROL FOR MELTER ELECTRODES	3217
	H-2-123150	10	5	SYSTEM 13 DRAIN VALVE HEATERS	3217
	H-2-123150	11	5	SYSTEM 13 CCTV CAMERA AND DRAIN VALVE HEATER CONTROLS	3217
	H-2-123150	12	5	SYSTEM 13 RISER AND POUR SPOUT HEATER	3217
	H-2-123150	13	5	SYSTEM 13 REFRACTORY COLD-FACE TEMPERATURE MEASUREMENT AND MELTER DOME HEATERS	3217
	H-2-123150	14	5	SYSTEM 13 MELTER DOME HEATERS	3217
	H-2-123150	15	5	SYSTEM 13 MELTER DOME HEATERS	3217
	H-2-123150	16	5	SYSTEM 13 MELTER DOME HEATERS	3217
	H-2-123150	17	5	SYSTEM 13 MELTER COOLING WATER FOR TOP AND BOTTOM HEADS AND SHELL	3217
	H-2-123150	18	5	SYSTEM 13 MELTER COOLING WATER FOR TOP AND BOTTOM HEADS AND SHELL	3217
	H-2-123150	19	5	SYSTEM 13 PROCESS COOLING WATER FOR FEED NOZZLES	3217
	H-2-123150	20	5	SYSTEM 13 MELTER COOLING WATER FOR ELECTRODES, PADS, AND DOME HEATER TRANSFORMERS	3217
	H-2-123150	21	5	SYSTEM 13 MELTER COOLING WATER FOR DOME HEATERS AND BOTTOM PAD	3217
	H-2-123150	22	4	SYSTEM 13 MELTER ARGON SUPPLY	3217
	H-2-123151	01	4	SYSTEM 16A FCDC SERVICE HEADERS	3219
	H-2-123151	02	4	SYSTEM 16A FCDC NOZZLE FEED PUMP #1	3219
	H-2-123151	03	4	SYSTEM 16A FCDC NOZZLE FEED PUMP #2	3219
	H-2-123151	04	4	SYSTEM 16A FCDC NOZZLE FEED PUMP #3	3219
	H-2-123151	05	4	SYSTEM 16A FCDC NOZZLE FEED PUMP #4	3219
	H-2-123151	06	4	SYSTEM 16A FCDC NOZZLE FEED PUMP #5	3219
	H-2-123151	07	4	SYSTEM 16A FCDC NOZZLE FEED PUMP #6	3219
	H-2-123151	08	4	SYSTEM 16A FCDC NOZZLE FEED PUMP #7	3219

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	H-2-123151	09	4	SYSTEM 16A FCDC RIBBON NOZZLE FEED PUMP	3219
	H-2-123151	10	4	SYSTEM 16A FCDC #1 SPRAY NOZZLES	3219
	H-2-123151	11	4	SYSTEM 16A FCDC #1 GRAPPLE AND RINSE CYCLE	3219
	H-2-123151	12	4	SYSTEM 16A FCDC #1 SPENT FRIT HANDLING AND CCTV	3219
	H-2-123151	13	4	SYSTEM 16B FCDC #2 SPRAY NOZZLES	3219
	H-2-123151	14	4	SYSTEM 16B FCDC #2 GRAPPLE AND RINSE CYCLE	3219
	H-2-123151	15	4	SYSTEM 16B FCDC #2 SPENT FRIT HANDLING AND CCTV	3219
	H-2-123151	16	4	SYSTEM 16A PRELIMINARY DECON WATER WASH	3219
	H-2-123151	17	0	SYSTEM 16A FCDC #1 SPRAY NOZZLES	3219
	H-2-123151	18	0	SYSTEM 16B FCDC #2 SPRAY NOZZLES	3219
	H-2-123152	01	4	SYSTEM 17 INNER CANISTER CLOSURE AND TEMPERATURE SURVEY STATION	3219
	H-2-123152	02	4	SYSTEM 17 INNER CANISTER CLOSURE LEAK TEST STATION	3219
	H-2-123152	03	3	SYSTEM 17 TIG WELDERS AND LEAK CHECK EQUIPMENT DELETED PER CR-634	3219
	H-2-123152	04	1	SYSTEM 17 ICC PRESS AND CANISTER TROLLEY	6320
	H-2-123152	05	1	SYSTEM 17 PLUG WELDER	6320
	H-2-123152	06	1	SYSTEM 17 POWER PACK CLG & WELDER NITROGEN SUPPLY	6320
	H-2-123152	07	1	SYSTEM 17 FUTURE OVERPACK WELDER WALL PENETRATIONS	6320
	H-2-123152	08	0	P&ID SYSTEM 17 PLUG WELDER	
	H-2-123160	01	3	SYSTEM 21 CRANE DECON FEED TANK (ACID)	3220
	H-2-123160	02	3	SYSTEM 21 CRANE DECON FEED TANK (CAUSTIC)	3220
	H-2-123160	03	3	SYSTEM 21 REDC UTILITIES	3220
	H-2-123160	04	3	SYSTEM 21 REDC UTILITIES	3220
	H-2-123160	05	3	SYSTEM 21 REDC UTILITIES	3220
	H-2-123160	06	3	SYSTEM 21 REDC UTILITIES	3220
	H-2-123160	07	4	SYSTEM 21 REDC UTILITIES	3220
	H-2-123160	08	3	SYSTEM 21 CDMC UTILITIES	3220
	H-2-123160	09	3	SYSTEM 21 CDMC UTILITIES	3220
	H-2-123160	10	4	SYSTEM 21 CDMC UTILITIES	3220
	H-2-123160	11	4	SYSTEM 21 CDMC UTILITIES	3220
	H-2-123160	12	4	SYSTEM 21 CDMC UTILITIES	3220
	H-2-123160	13	4	SYSTEM 21 CELL DECON	3220
	H-2-123160	14	4	SYSTEM 21 CPC AND ANALYTICAL FACILITY DECON	3220

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PROCESS PIPING AND INSTRUMENT DIAGRAMS
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NEW ISSUE	DRAWING NO.	SH NO	REV	DRAWING TITLE	CWBS NO
	H-2-123160	15	3	SYSTEM 21 MSM DECON GLOVE BOX	3220
	H-2-123160	16	0	SYSTEM 21 SHIELD DOORS	6320
	H-2-123160	17	0	SYSTEM 21 SHIELD DOORS	

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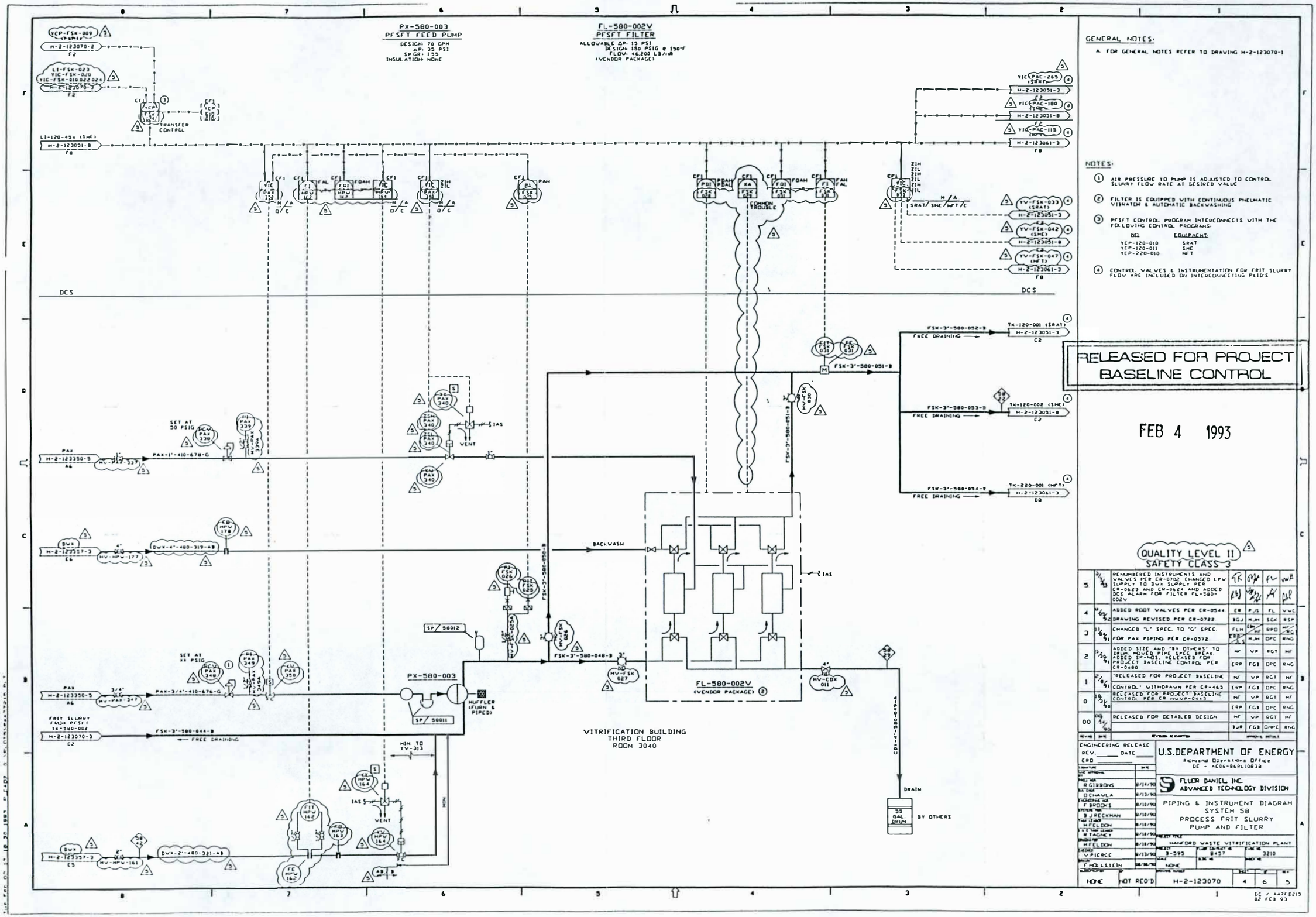
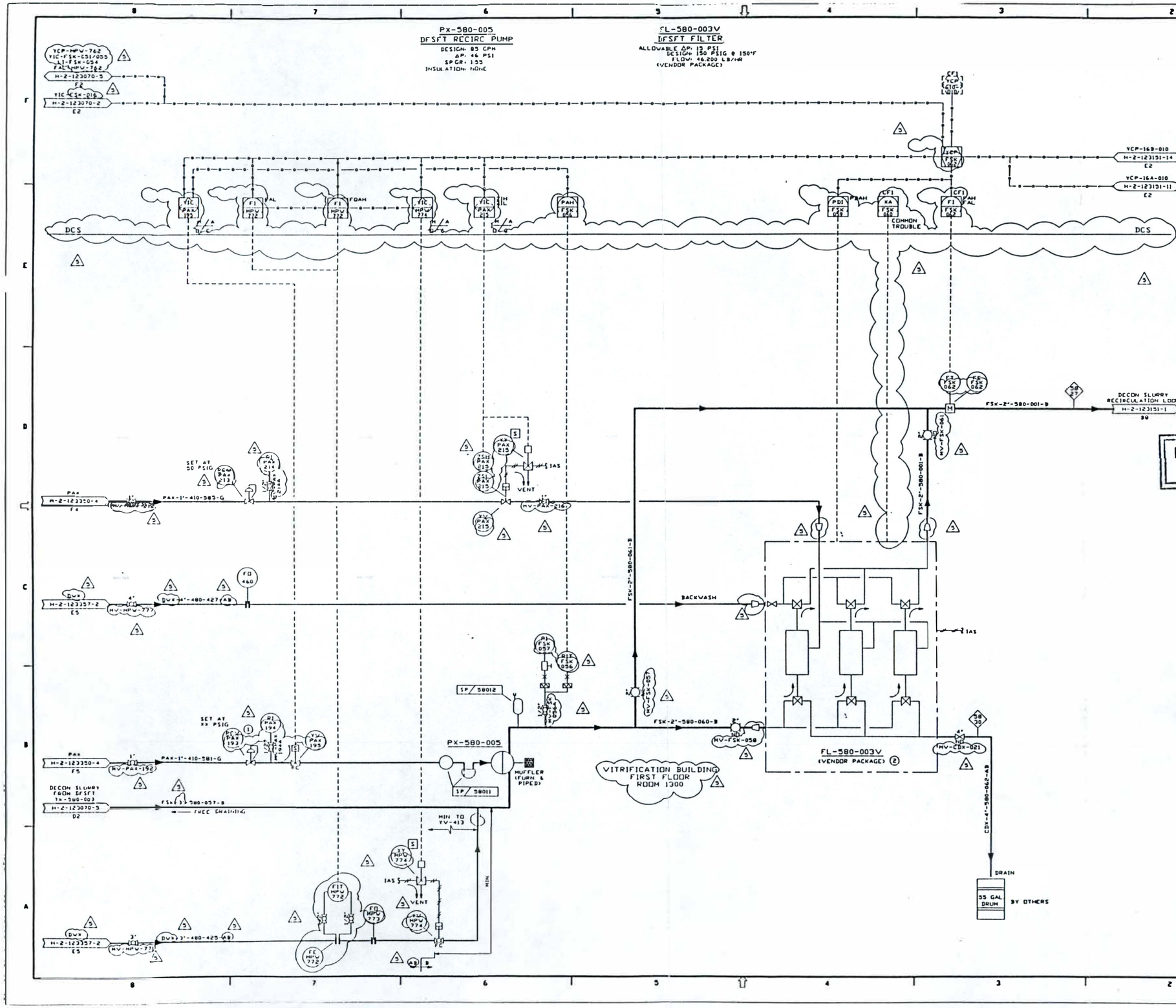

PX-580-003
PFSFT FEED PUMP
DESIGN: 70 GPM
ΔP: 35 PSI
SP GR: 1.55
INSULATION: NONE
FL-580-002V
PFSFT FILTER
ALLOWABLE ΔP: 15 PSI
DESIGN: 150 PSIG @ 150°F
FLOW: 46,200 LB/HR
(VENDOR PACKAGE)
TRANSFER CONTROL
COMMON TROUBLE
DCS
FREE DRAINING
BACKWASH
VENT
IAS
MUFFLER (FURN & PIPED)
FRIT SLURRY FROM PFSFT TK-580-002
FL-580-002V
(VENDOR PACKAGE)
VITRIFICATION BUILDING
THIRD FLOOR
ROOM 3040
DRAIN
55 GAL. DRUM
BY OTHERS
GENERAL NOTES:
A. FOR GENERAL NOTES REFER TO DRAWING H-2-123070-1
NOTES:
1. AIR PRESSURE TO PUMP IS ADJUSTED TO CONTROL SLURRY FLOW RATE AT DESIRED VALUE
2. FILTER IS EQUIPPED WITH CONTINUOUS PNEUMATIC VIBRATOR & AUTOMATIC BACKWASHING
3. PFSFT CONTROL PROGRAM INTERCONNECTS WITH THE FOLLOWING CONTROL PROGRAMS:
NO. EQUIPMENT
YCP-120-010 SRAT
YCP-120-011 SME
YCP-220-010 MFT
4. CONTROL VALVES & INSTRUMENTATION FOR FRIT SLURRY FLOW ARE INCLUDED ON INTERCONNECTING P&ID'S
RELEASED FOR PROJECT BASELINE CONTROL
FEB 4 1993
QUALITY LEVEL II
SAFETY CLASS 3
5 3/3/93 RENUMBERED INSTRUMENTS AND VALVES PER CR-0702. CHANGED LPW SUPPLY TO DWX SUPPLY PER CR-0623 AND CR-0624 AND ADDED DCS ALARM FOR FILTER FL-580-002V
4 11/04/92 ADDED ROOT VALVES PER CR-0544 DRAWING REVISED PER CR-0722
3 11/04/91 CHANGED "L" SPEC. TO "G" SPEC. FOR PAX PIPING PER CR-0572
2 3/20/91 ADDED SIZE AND "BY OTHERS" TO DRUM. MOVED PIPE SPEC BREAK. ADDED SP-NOS. RELEASED FOR PROJECT BASELINE CONTROL PER CR-0480
1 2/8/91 "RELEASED FOR PROJECT BASELINE CONTROL" WITHDRAWN PER CR-465
0 10/31/90 RELEASED FOR PROJECT BASELINE CONTROL PER CR HWVP-0443
00 08/14/90 RELEASED FOR DETAILED DESIGN
ENGINEERING RELEASE
REV. DATE
ERO
U.S. DEPARTMENT OF ENERGY
Richland Operations Office
DE - AC06-86RL10838
FLUOR DANIEL, INC.
ADVANCED TECHNOLOGY DIVISION
PIPING & INSTRUMENT DIAGRAM
SYSTEM 58
PROCESS FRIT SLURRY
PUMP AND FILTER
HANFORD WASTE VITRIFICATION PLANT
B-595
8457
3210
NONE
NOT REQ'D
H-2-123070
4
6
5
DC / AA7FD215
02 FEB 93

93130 31608



GENERAL NOTES:

A. FOR GENERAL NOTES REFER TO DRAWING H-2-123070-1

NOTES:

1. AIR PRESSURE TO PUMP IS ADJUSTED TO CONTROL SLURRY FLOW RATE AT DESIRED VALUE
2. FILTER IS EQUIPPED WITH CONTINUOUS PNEUMATIC VIBRATOR & AUTOMATIC BACKWASHING

RELEASED FOR PROJECT BASELINE CONTROL

FEB 4 1993

QUALITY LEVEL II
SAFETY CLASS 3

REV	DATE	DESCRIPTION	APPROVAL INITIALS			
5	2/3/98	RENUMBERED INSTRUMENTS AND VALVES PER CR-0702. CHANGED LPW SUPPLY TO DWX SUPPLY PER CR-0623 AND CR-0624. ADDED DCS ALARM FOR FILTER FL-580-003V AND DELETED LOCAL PANEL FOR FILTER FL-580-003V	JR / BGJ	[illegible] / [illegible]	FL / [illegible]	[illegible] / [illegible]
4	8/05/92	ADDED ROOT VALVES PER CR-0544 DRAWING REVISED PER CR-0722	ER / BGJ	PGS / MJH	FL / JGK	VWC / RSP
3	1/04/91	CHANGED "L" SPEC TO "G" SPEC FOR PAX PIPING AND ADDED DOUBLE LINE ON LOCAL INSTRUMENT PANEL DEVICES PER CR-0572	FLH / ERP/JLS	GBH/HF / MJH	RPO / OPC	HF/RG / RNG
2	5/30/91	SHOWED SIZE & "BY OTHERS" ON DRUM. MOVED PIPE SPEC BREAK. ADDED SP-NOS. SHOWED PIPE SWAGE. RELEASED FOR PROJECT BASELINE CONTROL PER CR-0480	HF / ERP	VP / FGB	RGT / OPC	HF / RNG
1	2/8/91	"RELEASED FOR PROJECT BASELINE CONTROL" WITHDRAWN PER CR-465	HF / ERP	VP / FGB	RGT / OPC	HF / RNG
0	10/31/90	RELEASED FOR PROJECT BASELINE CONTROL PER CR HWVP-0443	HF / ERP	VP / FGB	RGT / OPC	HF / RNG
00	10/14/90	RELEASED FOR DETAILED DESIGN	HF / BJR	VP / FGB	RGT / OMPC	HF / RNG

ENGINEERING RELEASE
REV ____ DATE ____
ERO ____

	DATE
R GIBBONS	8/14/90
O CHAWLA	8/13/90
F BROOKS	8/10/90
B J RECKMAN	8/10/90
H FELDON	8/10/90
R TAGNEY	8/10/90
H FELDON	8/10/90
V PIERCE	8/13/90
H KHOURI	08/08/90

U.S. DEPARTMENT OF ENERGY
Richland Operations Office
DE - AC06-86RL10838

FLUOR DANIEL INC.
ADVANCED TECHNOLOGY DIVISION

PIPING & INSTRUMENT DIAGRAM
SYSTEM 58
DECON FRIT SLURRY
PUMP & FILTER

HANFORD WASTE VITRIFICATION PLANT

PROJECT	FLUOR CONTRACT NO.	CODE NO.
B-595	8457	3210

SCALE: NONE
DRAWING NUMBER: H-2-123070
SHEET 6 OF 6 REV 5

NONE | NOT REQ'D

AA7FE217/ER
2 FEB 93

93130 31609