START

0017645

Mr. John Grantham
State of Washington
Department of Ecology (PV-11)
Olympia, WA 98504-8711

FLUOR DANIEL, INC.

Date: December 3, 1991

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

Transmittal No.: WDOE-077

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: CWBS No. 3227

| | Rev. | Date | |
|---|---|---|---|
| SEE TRANSMITTAL ATTACHMENT | | | PIPING AND INSTRUMENTATION DIAGRAMS 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 |

BEST AVAILABLE COPY

Distribution:
Reference:FRP-316, FUP-078
R. L. Long: DOE-RL W/0
VPO/AME Corresp Cntrl Cntr, MSIN A5-10
(System 62),w/0
P. Felise, WHC-RL (MSIN G6-16) w/o
Environmental Data Management Center
(MSIN H4-44)w/1 #31
D. Duncan, US EPA, Region X w/0

RNG:DJF:mjc

Very truly yours,

R. N. Gibbons
Project Director

DEC 1991
RECEIVED
EDMC

TRANSMITTAL ATTACHMENT

| DRAWING NUMBER | SHT NO. | REV | DATE | DRAWING TITLE |
|---|---|---|---|---|
| H-2-123370 | 01 | 3 | 11/26/91 | SYSTEM 62 HPS VACUUM BLOWERS VITRIFICATION, MRB, OC/REB FRIT ST/COLD CHEM BLDGS. |
| H-2-123370 | 05 | 3 | 11/26/91 | SYSTEM 62 HPS VACUUM SYSTEM CANISTER STORAGE BUILDING |
| H-2-123370 | 06 | 3 | 11/26/91 | SYSTEM 62 HPS VACUUM SYSTEM FAN HOUSE |
| H-2-123370 | 07 | 3 | 11/26/91 | SYSTEM 62 HPS VACUUM SYSTEM WHT BUILDING |
| H-2-123370 | 08 | 1 | 11/26/91 | SYSTEM 62 DECON HOOD, SAMPLE PREPARATION HOOD AND SINK |

9212153013 4

# PROCESS PIPING AND INSTRUMENT DIAGRAMS
## VOLUME 1B
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|---|---|---|---|---|
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| H-2-123161 | 02 | 3 | SYSTEM 23 EMPTY CANISTER ENTRY TUNNEL TRANSFER CAR | 3220 |
| H-2-123161 | 03 | 3 | SYSTEM 23 MC/CDC TUNNEL CANISTER TRANSFER CAR | 3220 |
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| H-2-123251 | 09 | 3 | SYSTEM 15C RPVV REMOTE FILTER PREHEATER | 3216 |
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| H-2-123251 | 11 | 3 | SYSTEM 15C RPVV CONTACT PREHEATER AND HEPA FILTER | 3216 |
| H-2-123251 | 12 | 3 | SYSTEM 15C RPVV EXHAUSTERS | 3216 |
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| H-2-123350 | 02 | 2 | SYSTEM 41 INSTRUMENT AIR DRYERS | 3223 |
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| H-2-123350 | 06 | 2 | SYSTEM 41 BREATHING AIR SYSTEM | 3223 |
| H-2-123350 | 07 | 4 | SYSTEM 41 INSTRUMENT AIR DISTRIBUTION | 3223 |
| H-2-123350 | 08 | 2 | SYSTEM 41 INSTRUMENT/PLANT AIR COMPRESSORS | 3223 |
| H-2-123350 | 09 | 0 | SYSYEM 41 PLANT AIR DIST - VIT BLDG 2ND & 4TH FLOORS | 6320 |
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| H-2-123352 | 01 | 2 | SYSTEM 43 PROCESS STEAM GENERATOR AND PROCESS STEAM DISTRIBUTION | 3221 |
| H-2-123352 | 02 | 2 | SYSTEM 43 PROCESS STEAM CONDENSATE SYSTEM | 3221 |
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| H-2-123353 | 02 | 2 | SYSTEM 44 COOLING TOWER WATER CONTROL, MAKE-UP, AND BLOWDOWN | 3222 |
| H-2-123353 | 03 | 2 | SYSTEM 44 COOLING TOWER WATER DISTRIBUTION MECH/ELECT. SERVICES BLDG, AND VIT. BLDG. | 3222 |
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| H-2-123357 | 03 | 2 | SYSTEM 48 PROCESS WATER DIST VITRIFICATION BUILDING -- 3RD FLOOR | 3224 |
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| H-2-123358 | 02 | 4 | SYSTEM 50 FIRE AND PROCESS WATER STORAGE | 3224 |
| H-2-123359 | 01 | 4 | SYSTEM 49 SANITARY WATER SYSTEM | 3224 |
| H-2-123359 | 02 | 0 | SYSTEM 49 SAN WATER DIST - VIT BLDG 1ST & 2ND FLOOR | 3219 |
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| H-2-123360 | 02 | 2 | SYSTEM 52 ORGANIC ACID DRAIN CATCH TANK | 3225 |
| H-2-123360 | 03 | 2 | SYSTEM 52 FLOOR DRAIN CATCH TANK | 3225 |
| H-2-123360 | 04 | 2 | SYSTEM 52 FLOOR DRAIN SAMPLING TANK | 3225 |
| H-2-123360 | 05 | 2 | SYSTEM 52 REGULATED DRAINS CATCH TANK | 3225 |
| H-2-123360 | 06 | 2 | SYSTEM 52 LIQUID WASTE COLLECTION VITRIFICATION BUILDING | 3225 |
| H-2-123360 | 07 | 2 | SYSTEM 52 LIQUID WASTE COLLECTION VIT BLDG, REB AND MANIPULATOR REPAIR BLDG. | 3225 |
| H-2-123361 | 01 | 2 | SYSTEM 53 ACID WASTE HOLD TANK | 3225 |
| H-2-123361 | 02 | 2 | SYSTEM 53 ORGANIC ACID WASTE HOLD TANK | 3225 |
| H-2-123361 | 03 | 2 | SYSTEM 53 ORGANIC ACID WASTE NEUTRALIZATION TANK | 3225 |
| H-2-123361 | 04 | 2 | SYSTEM 53 CAUSTIC WASTE HOLD TANK | 3225 |
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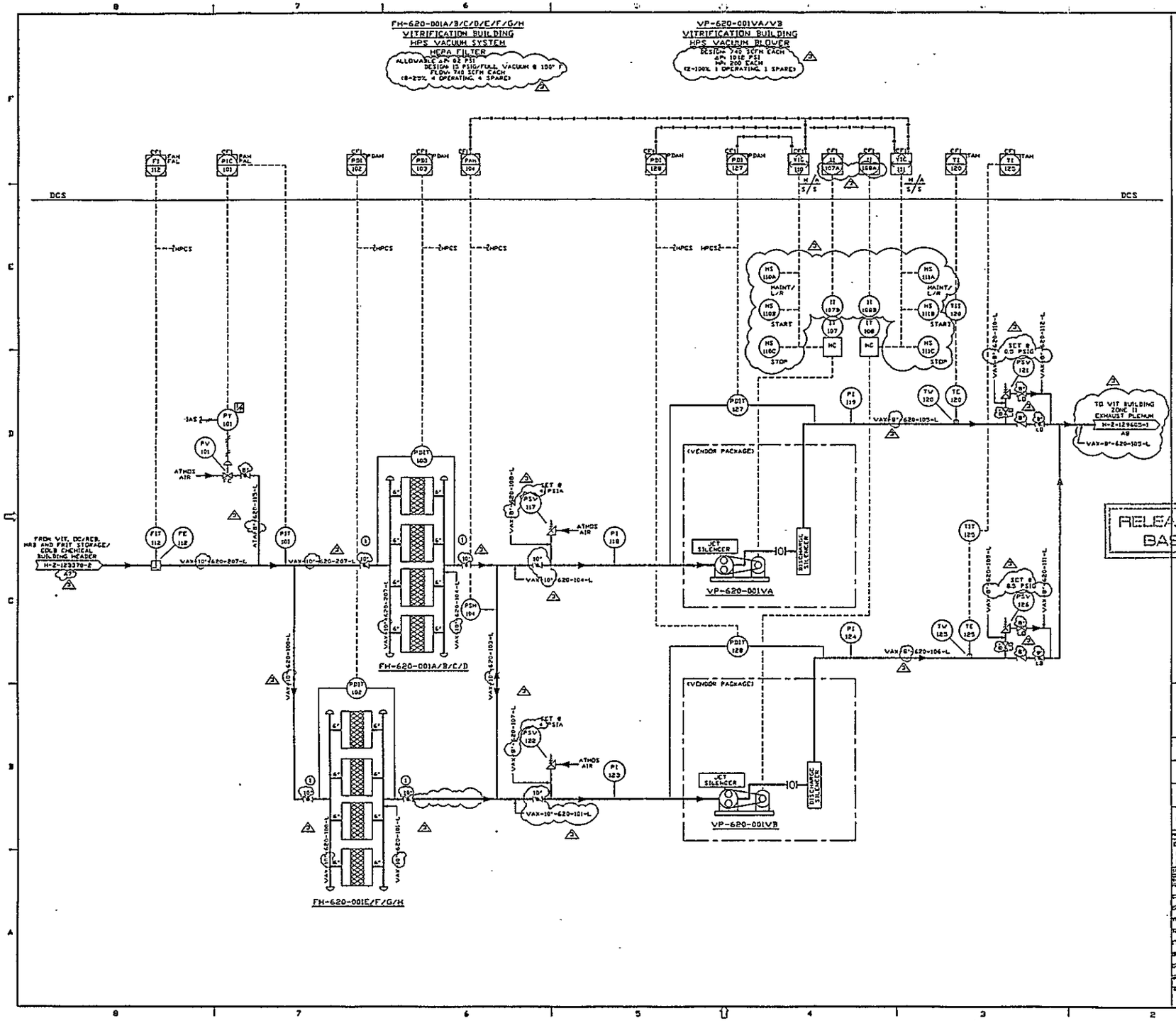
| H-2-123362 | 08 | 2 | SYSTEM 54 SUGAR SOLUTION FEED SYSTEM | 3226 |
| H-2-123362 | 09 | 2 | SYSTEM 54 OFF-GAS TREATMENT CHEMICAL FEED SYSTEM | 3226 |
| H-2-123362 | 10 | 2 | SYSTEM 54 KOH/FRIT MODIFIER FEED SYSTEM | 3226 |
| H-2-123362 | 11 | 2 | SYSTEM 54 DILUTE SODIUM HYDROXIDE FEED SYSTEM | 3226 |
| H-2-123362 | 12 | 2 | SYSTEM 54 FORMIC ACID STORAGE TANK | 3226 |
| H-2-123362 | 14 | 2 | SYSTEM 54 FORMIC ACID FEED TANK | 3226 |
| H-2-123362 | 15 | 2 | SYSTEM 54 DILUTE FORMIC ACID FEED SYSTEM | 3226 |
| H-2-123362 | 16 | 2 | SYSTEM 54 50% NITRIC ACID STORAGE TANK | 3226 |
| H-2-123362 | 18 | 2 | SYSTEM 54 50% NITRIC ACID FEED TANK | 3226 |
| H-2-123362 | 19 | 2 | SYSTEM 54 NITRIC ACID DECON FEED SYSTEM | 3226 |
| H-2-123362 | 20 | 0 | SYSTEM 54 ANTIFOAM FEED TANK | 6370 |
| H-2-123362 | 21 | 2 | SYSTEM 54 DIATOMACEOUS EARTH SLURRY FEED TANK | 3226 |
| H-2-123362 | 22 | 2 | SYSTEM 54 ZEOLITE SLURRY FEED TANK | 3226 |
| H-2-123362 | 23 | 2 | SYSTEM 54 FLUSH WATER FEED TANK | 3226 |
| H-2-123363 | 01 | 2 | SYSTEM 55 FRIT STORAGE/COLD CHEMICAL BLDG VENT SYSTEM | 3227 |
| H-2-123364 | 01 | 2 | SYSTEM 56 COLD FEED VITRIFICATION BUILDING VENT SYSTEM | 3227 |
| H-2-123364 | 02 | 0 | SYSTEM 56 VITRIFICATION BUILDING SOLENOID VALVE AIR VENT | 3227 |
| H-2-123370 | 01 | 3 | SYSTEM 62 HPS VACUUM BLOWERS VITRIFICATION, MRB, OC/REB FRIT ST/COLD CHEM BLDGS. | 3227 |
| H-2-123370 | 02 | 2 | SYSTEM 62 HPS VACUUM COLLECTION VIT BUILDING, TUNNEL LEVEL, MEZZ. LEVEL, FIRST AND SECOND FLOORS | 3227 |
| H-2-123370 | 03 | 2 | SYSTEM 62 HPS VACUUM COLLECTION VITRIFICATION BUILDING THIRD & FOURTH FLOORS | 3227 |
| H-2-123370 | 04 | 2 | SYSTEM 62 HPS VACUUM COLLECTION MRB, FRIT ST/COLD CHEM, CMR, OC/REB & SHIPPING/RECEIVING BUILDINGS | 3227 |
| H-2-123370 | 05 | 3 | SYSTEM 62 HPS VACUUM SYSTEM CANISTER STORAGE BUILDING | 3227 |
| H-2-123370 | 06 | 3 | SYSTEM 62 HPS VACUUM SYSTEM FAN HOUSE | 3227 |
| H-2-123370 | 07 | 3 | SYSTEM 62 HPS VACUUM SYSTEM WHT BUILDING | 3227 |
| H-2-123370 | 08 | 1 | SYSTEM 62 DECON HOOD, SAMPLE PREPARATION HOOD AND SINK | 3227 |




GENERAL NOTES:

A. THREE DIGIT INSTRUMENT TAG NUMBERS ARE PREFIXED WITH 620 UNLESS A SIX DIGIT NUMBER IS SHOWN TO INDICATE ANOTHER SYSTEM.

B. REFER TO DRAWING H-2-123001 "LEGEND OF SYMBOLOGY FOR PROCESS FLOW AND PIPING AND INSTRUMENT DIAGRAMS" FOR AN EXPLANATION OF SYMBOLS AND ABBREVIATIONS.

C. FOR A LISTING OF VITRIFICATION BUILDING ROOM NUMBERS AND NAMES, REFER TO DRAWING H-2-118020.

NOTES:

1. FACTORY BUILT IN-PLACE CHALLENGE AEROSOL INLET PORTS, DIFFUSERS, SAMPLE TEST PORTS, AND TEST SECTIONS UPSTREAM AND DOWNSTREAM SHALL BE PROVIDED FOR EACH HEPA FILTER.
2. NOTE DELETED
3. NOTE DELETED

RELEASED FOR PROJECT BASELINE CONTROL

NOV 27 1991

SAFETY CLASS 3

| REV | DATE | REVISION DESCRIPTION | DRAWN | CHECKED | ENGINEERED | APPROVED |
|---|---|---|---|---|---|---|
| 3 | 11-26-91 | ADDED LOCAL HANDSWITCHES AND DELETED NOTE 2 PER CR-0480. REVISED TO INDICATING TRANSMITTERS. REVISED VAR DESTINATION. REMOVED HOLD & MVVP-FD-122. DELETED NOTE 2. REVISED EQUIPMENT DESIGN PARAMETERS. REVISED LINE SIZES. ADDED PSV SET POINTS PER CR-0487. | BL | CW | RGT | CT |
| 2 | 5-15-91 | REVISED NOTE #2 RELEASED FOR PROJECT BASELINE CONTROL PER CR-0480 | KJM / ERP | SSL / FGB | RGT / DPC | HF / RNG |
| 1 | 5-15-91 | "RELEASED FOR PROJECT BASELINE CONTROL" WITHDRAWN PER CR-465 | KJM / ERP | SSL / FGB | RGT / DPC | HF / RNG |
| 0 | 10-31-90 | RELEASED FOR PROJECT BASELINE CONTROL PER CP MVVP-0117 | KJM / BJR | SSL / FGB | RGT / DPC | KJM / RNG |
| 00 | 10-01-90 | RELEASED FOR DETAILED DESIGN | KJM / BJR | SSL / FGB | RGT / DPC | KJM / RNG |

ENGINEERING RELEASE
REV. ____ DATE ____
END ____

| | | |
|---|---|---|
| PROJECT ENGINEER | R CIBIONE | 08/31/90 |
| PROJ. ENGR. | D CHAVLA | 08/31/90 |
| CHIEF ENGINEER | F BROOKS | 09/27/90 |
| INTERFACE | B J BECKMAN | 09/27/90 |
| PROJ. MANAGER | K MEHTA | 09/27/90 |
| SYSTEM ENGINEER | S T TOTOROIU | 09/27/90 |
| | P TAGNEY | 09/27/90 |
| DESIGNER | K MEHTA | 09/27/90 |
| DRAFTER | SILCE | 09/27/90 |
| CHECKED | T SHIRLEY | 09/27/90 |

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

FLUOR DANIEL, INC.
ADVANCED TECHNOLOGY DIVISION

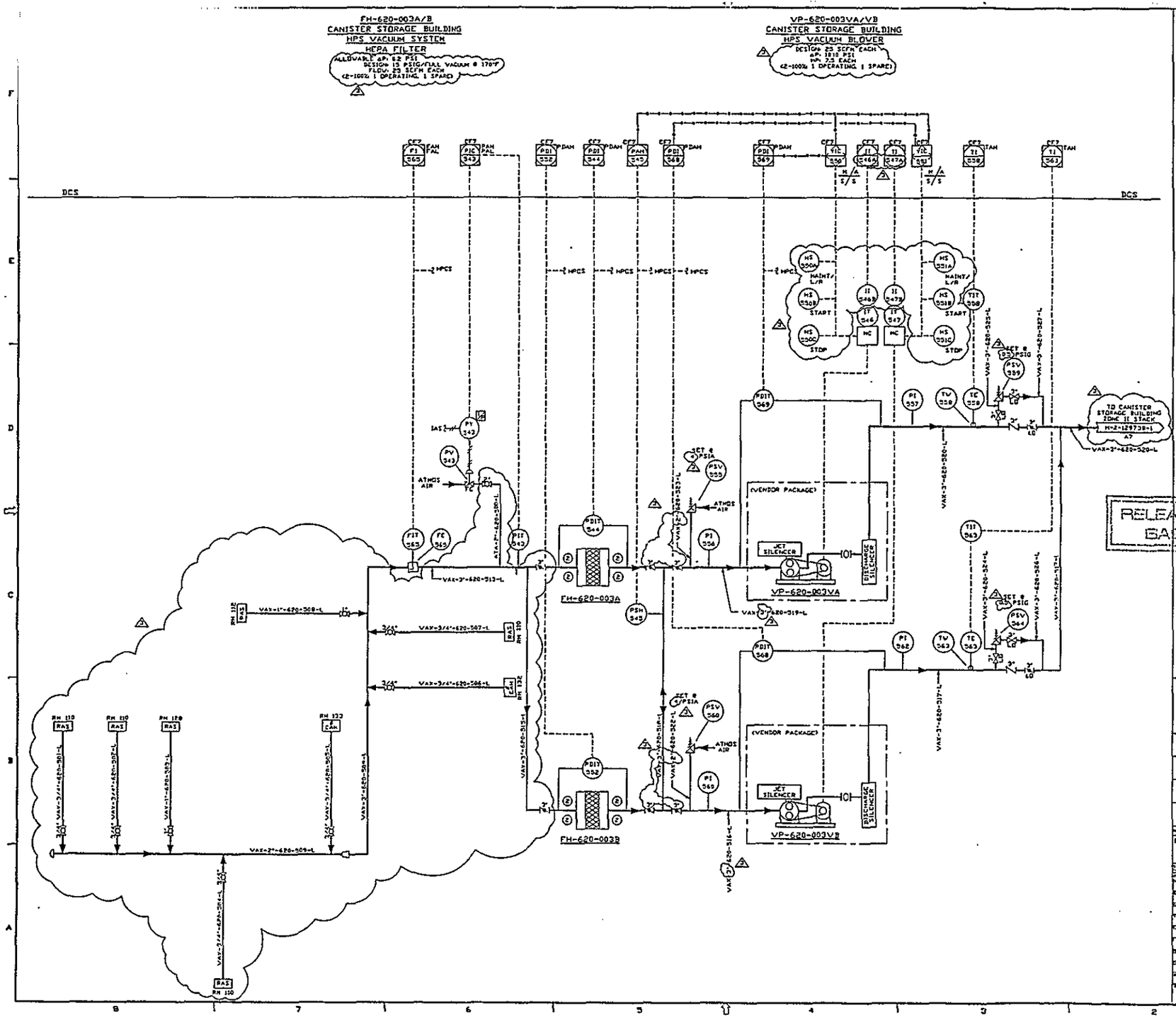
PIPING & INSTRUMENT DIAGRAM
SYSTEM 62
HPS VACUUM BLOWERS
VITRIFICATION, HRB, DC/REB
FRIT ST/COLD CHEM. BLDGS.

HANFORD WASTE VITRIFICATION PLANT

| | | |
|---|---|---|
| PROJECT | SUBPROJECT | SYSTEM |
| 3-595 | 8457 | 3227 |

SCALE: NONE
NOT REQ'D
DRAWING NO. H-2-123370
SHEET 1 OF 8 REV. 3

AA7F0260 / CP
12 NOV 91




GENERAL NOTES:

A. FOR GENERAL NOTES REFER TO DWG. H-2-123370-L

NOTES:

1. FOR THE LOCATION OF HEALTH PROTECTION AREA CONTINUOUS AIR MONITORS (CAMS) AND RECORD AIR SAMPLERS (RASs), REFER TO THE FOLLOWING DRAWINGS:

| DRAWING NO. | DRAWING NAME |
|---|---|
| H-2-121119-1 | CANISTER STORAGE BLDG - FIRST FLOOR |
| H-2-121118-2 | CANISTER STORAGE BLDG - PARTIAL FIRST FLR |

2. FACTORY BUILT IN-PLACE CHALLENGE AEROSOL INLET PORTS, DIFFUSERS, SAMPLE TEST PORTS, AND TEST SECTIONS UPSTREAM AND DOWNSTREAM SHALL BE PROVIDED FOR EACH HEPA FILTER.

3. NOTE DELETED

4. FLOW CONTROL AND ALARM DEVICES WILL BE PROVIDED WITH EACH CAM AND RAS.

RELEASED FOR PROJECT BASELINE CONTROL

NOV 27 1991

SAFETY CLASS 3

| REV. | DATE | DESCRIPTION | DRAWN | CHECKED | ENGINEER | PROJECT ENGINEER |
|---|---|---|---|---|---|---|
| 3 | 11-27-91 | ADDED LOCAL HANDSWITCHES AND DELETED NOTE 3 PER CR-0480 RELOCATED RAS'S AND BETA CAM'S. DELETED ALPHA-BETA CAM'S PER CR-0419. REVISED TO INDICATING TRANSMITTERS. REVISED VAX DESTINATION. REVISED EQUIPMENT DESIGN PARAMETERS. ADDED PSV SET POINTS PER CR-0487. | KJM | SSL | RGT | HF |
| 2 | 7/25/91 | REVISED NOTE #3 RELEASED FOR PROJECT BASELINE CONTROL PER CR-0480 | ERP | FGB | DPC | RHG |
| 1 | 2/15/91 | RELEASED FOR PROJECT BASELINE | KJM | SSL | RGT | HF |
| 0 | 10/31/90 | CONTROL WITHDRAWN PER CR-465. RELEASED FOR PROJECT BASELINE CONTROL PER CR HVVR-0447 | ERP | FGB | DPC | RHG |
| | | | KJM | VP | RGT | HF |
| 00 | 10/4/90 | RELEASED FOR DETAIL DESIGN | ERP | FGB | DPC | RHG |
| | | | KJM | SSL | RGT | KJM |
| | | | BJR | FGB | DPC | RHG |

ENGINEERING RELEASE
REV. ____ DATE ____
ERD ____

U.S. DEPARTMENT OF ENERGY
Richland Operations Office
DE - AC06-88RL10938

FLUOR DANIEL, INC.
ADVANCED TECHNOLOGY DIVISION

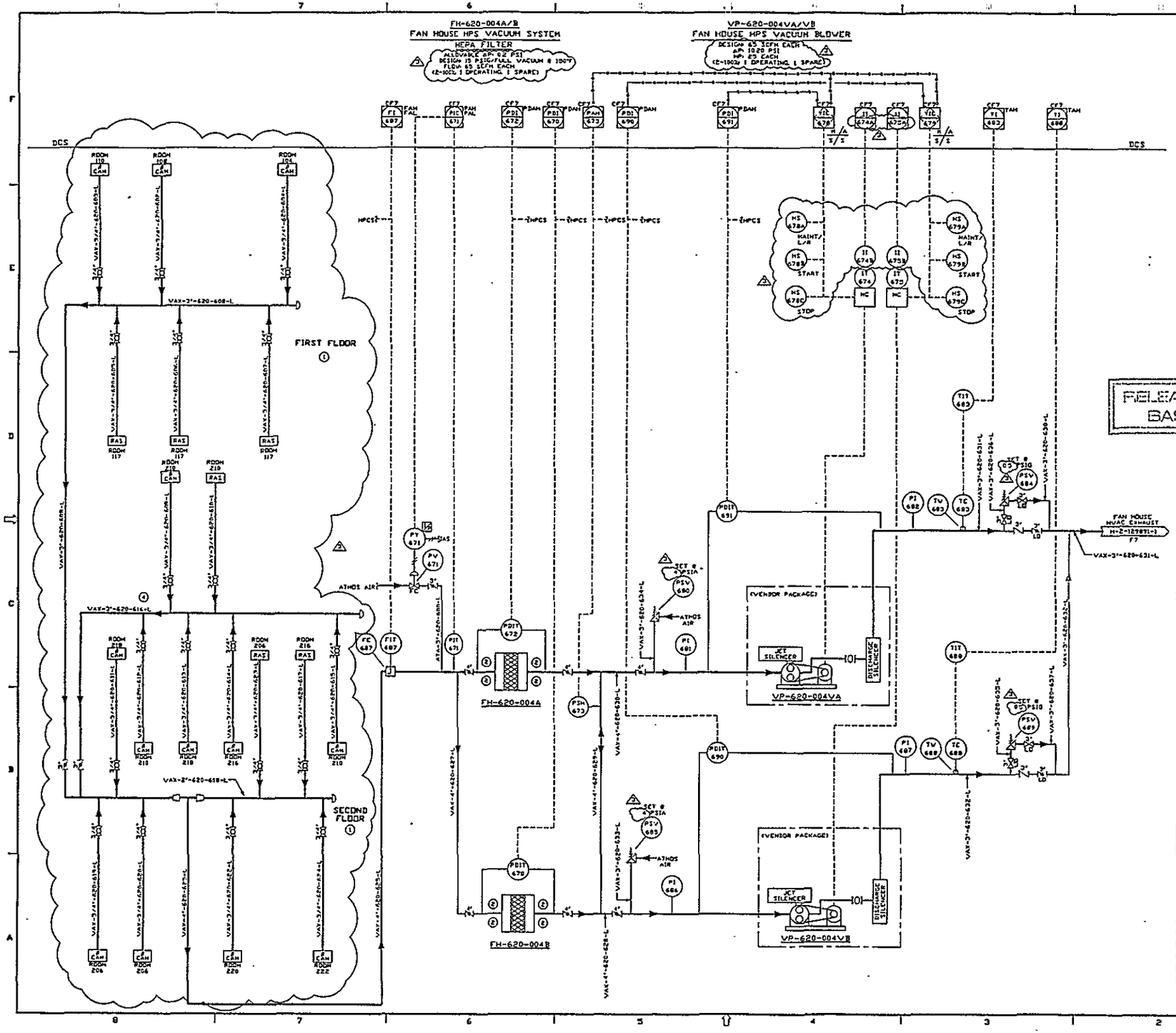
PIPING & INSTRUMENT DIAGRAM
SYSTEM 62
HPS VACUUM SYSTEM
CANISTER STORAGE BUILDING

HANFORD WASTE VITRIFICATION PLANT

| | | | |
|---|---|---|---|
| DRAWN | R GIBBONS | 9/10/90 | |
| CHECKED | D CHAVLA | 9/10/90 | |
| ENGINEER | F BROOKS | 9/27/90 | |
| PROJECT ENGINEER | B J BECKMAN | 9/27/90 | |
| | R.MEHTA | 9/27/90 | |
| | R.TAGNEY | 9/27/90 | |
| | R MEHTA | 9/27/90 | |
| SCALE | 1:1.CC | 9/27/90 | |
| | T SHIRLEY | 9/27/90 | |

| | | |
|---|---|---|
| SCALE | NONE | |
| PROJECT NO. | 8-035 | |
| DWG. NO. | 8457 | |
| SHEET NO. | 3827 | |
| NONE | NOT REQ'D | H-2-123370 |
| 5 | 8 | 3 |

A47FD276 / CR 12 NOV 91




GENERAL NOTES:

A. FOR GENERAL NOTES REFER TO DRAWING H-2-123378-L

NOTES:

1. FOR THE LOCATION OF HEALTH PROTECTION AREA CONTINUOUS AIR MONITORS (CAMs) AND RECORD AIR SAMPLERS (RASs), REFER TO THE FOLLOWING DRAWINGS:

| DRAWING NO. | DRAWING NAME |
|---|---|
| H-2-121120-1 | FAN HOUSE - FIRST FLOOR |
| H-2-121120-2 | FAN HOUSE - SECOND FLOOR |

2. FACTORY BUILT IN-PLACE CHALLENGE AEROSOL INLET PORTS, DIFFUSERS, SAMPLE TEST PORTS, AND TEST SECTIONS UPSTREAM AND DOWNSTREAM SHALL BE PROVIDED FOR EACH HEPA FILTER.

3. NOTE DELETED

4. FLOW CONTROL AND ALARM DEVICES WILL BE PROVIDED FOR EACH RAS AND CAM

RELEASED FOR PROJECT BASELINE CONTROL

NOV 2 7 1991

SAFETY CLASS 3

| REV | DATE | REVISION DESCRIPTION | | | | |
|---|---|---|---|---|---|---|
| 3 | 11/26/91 | ADDED LOCAL HANDSWITCHES AND DELETED NOTE 3 PER CR-0486. DELETED AND RELOCATED RASTS AND CAMS. REVISED TO INDICATING TRANSMITTERS. REVISED EQUIPMENT DESIGN PARAMETERS. ADDED PSV SET POINTS PER CR-0487 | ER | CAN | RGB | RCT |
| 2 | 3/26/91 | REVISED NOTE #3 RELEASED FOR PROJECT BASELINE CONTROL PER CR-0480 | KJH / ERP | SSL / FGB | RGT / DPC | HF / RNG |
| 1 | 2/18/91 | *RELEASED FOR PROJECT BASELINE CONTROL.* WITHDRAWN PER CR-465. | KJH / ERP | SSL / FGB | RGT / DPC | HF / RNG |
| 0 | 10/31/90 | RELEASED FOR PROJECT BASELINE CONTROL PER CR HWVP-0449 | KJH / ERP | VP / FGB | RGT / DPC | HF / RNG |
| 00 | 10/26/90 | RELEASED FOR DETAILED DESIGN | KJH / BJR | SSL / FGB | HGT / DPC | KJH / RNG |

ENGINEERING RELEASE
REV. ____ DATE ____
ENG ____

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

FLUOR DANIEL, INC.
ADVANCED TECHNOLOGY DIVISION

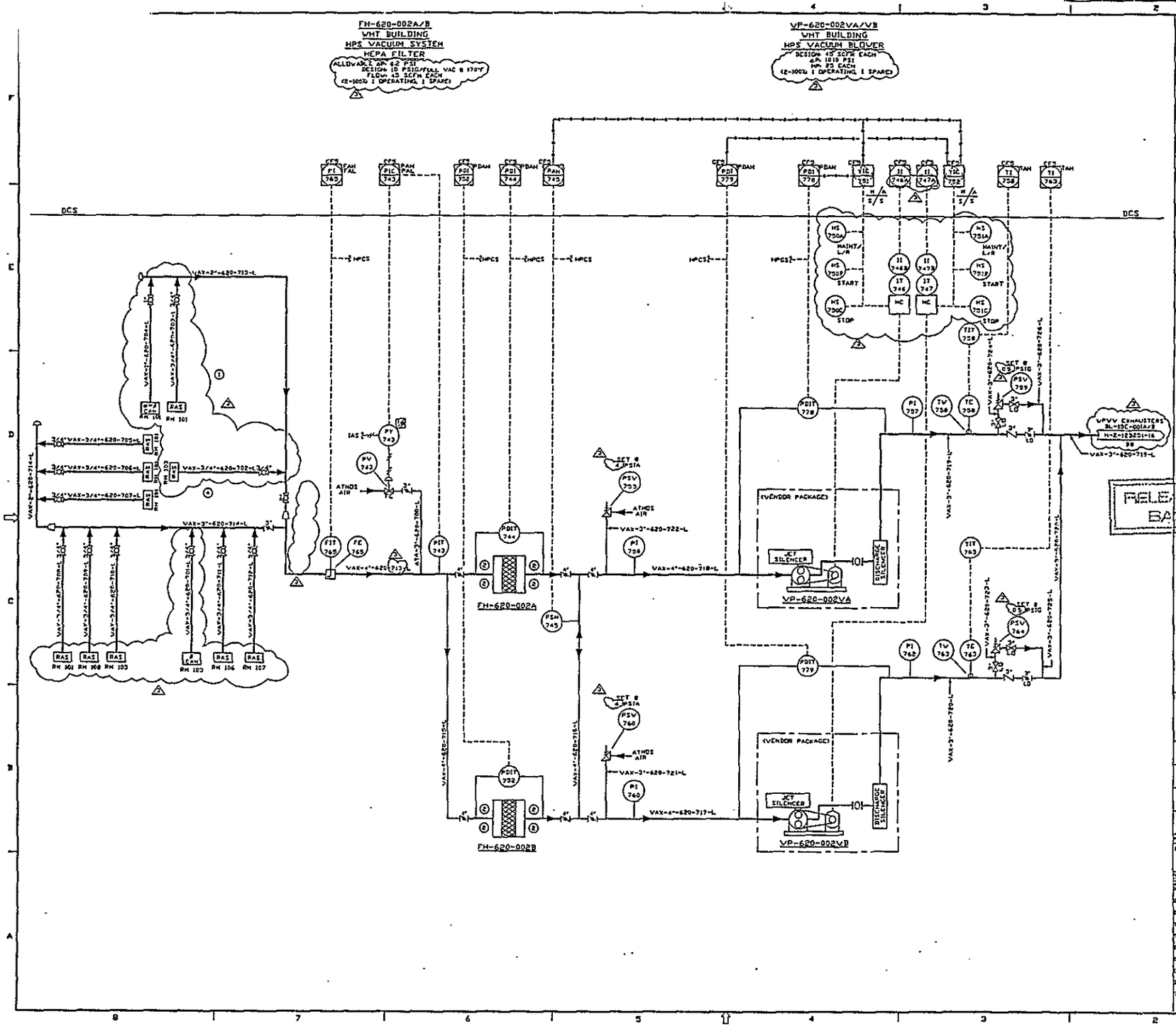
PIPING & INSTRUMENT DIAGRAM
SYSTEM 62
HPS VACUUM SYSTEM
FAN HOUSE

HANFORD WASTE VITRIFICATION PLANT

| | | | |
|---|---|---|---|
| R GIBBONS | 9/15/90 | | |
| D CHAVLA | 9/15/90 | | |
| F BROOKS | 9/27/90 | | |
| B J BECKMAN | 9/27/90 | | |
| R MEHTA | 9/27/90 | | |
| R TAGNEY | 9/27/90 | | |
| R MEHTA | 9/27/90 | | |
| S LEE | 9/27/90 | | |
| M KHOURI | 9/27/90 | | |

PROJECT 8-593 | CONTRACT NO. 8437 | DWG NO. 3227
SCALE NONE | SHEET NO. 6 | OF 8 | REV. 3
NONE | NOT REQ'D | H-2-123370

AA7F0277 / CR 12 NOV 91




GENERAL NOTES:

A. FOR GENERAL NOTES REFER TO DWG. H-2-123370-1.

NOTES:

1. FOR THE LOCATION OF HEALTH PROTECTION AREA CONTINUOUS AIR MONITORS (CAMS) AND RECORD AIR SAMPLERS (RASs), REFER TO DRAWING H-2-121123.
2. FACTORY BUILT IN-PLACE CHALLENGE AEROSOL, INLET PORTS, DIFFUSERS, SAMPLE TEST POINTS, AND TEST SECTIONS UPSTREAM AND DOWNSTREAM SHALL BE PROVIDED FOR EACH HEPA FILTER.
3. NOTE DELETED
4. FLOW CONTROL AND ALARM DEVICES WILL BE PROVIDED FOR EACH CAM AND RAS.

RELEASED FOR PROJECT BASELINE CONTROL

NOV 27 1991

SAFETY CLASS 3

| | | | | | | |
|---|---|---|---|---|---|---|
| 3 | 11-26-91 | ADDED LOCAL HANDSWITCHES AND DELETED NOTE 3 PER CR-0486. RELOCATED RAS'S AND CAM'S. REVISED TO INDICATING TRANSMITTERS. REVISED VAX DESTINATION. REVISED EQUIPMENT DESIGN PARAMETERS. ADDED PSV SET POINTS PER CR-0607. | KJH | SSL | RGT | HF |
| | | | CRP | FGB | DPC | RNG |
| 2 | 3/4/91 | REVISED NOTE #3. RELEASED FOR PROJECT BASELINE CONTROL PER CR-0480 | KJH | SSL | RGT | HF |
| | | | CRP | FGB | DPC | RNG |
| 1 | 12/4/91 | "RELEASED FOR PROJECT BASELINE | KJH | SSL | RGT | HF |
| | | CONTROL" WITHDRAWN PER CR-465. | CRP | FGB | DPC | RNG |
| 0 | 10/31/90 | RELEASED FOR PROJECT BASELINE CONTROL PER CR H-VVP-0440 | KJH | VP | RGT | HF |
| | | | CRP | FGB | DPC | RNG |
| 00 | 10/31/90 | RELEASED FOR DETAIL DESIGN | KJH | SSL | RGT | KJH |
| | | | BJR | FGB | DPC | RNG |

REVISION DESCRIPTION

ENGINEERING RELEASE
REV. ____ DATE ____
ERD ____

| | |
|---|---|
| R GIBBONS | 5/15/90 |
| D CHAVLA | 5/15/90 |
| F. BROOKS | 5/17/90 |
| R JARECKMAN | 5/17/90 |
| R.MEHTA | 5/17/90 |
| R RACHET | 5/17/90 |
| P MEHTA | 5/17/90 |
| S.LEE | 5/17/90 |
| F HOLLSTEIN | 5/17/90 |

U.S. DEPARTMENT OF ENERGY
Richland Operations Office
SC - AC06-88RL10838

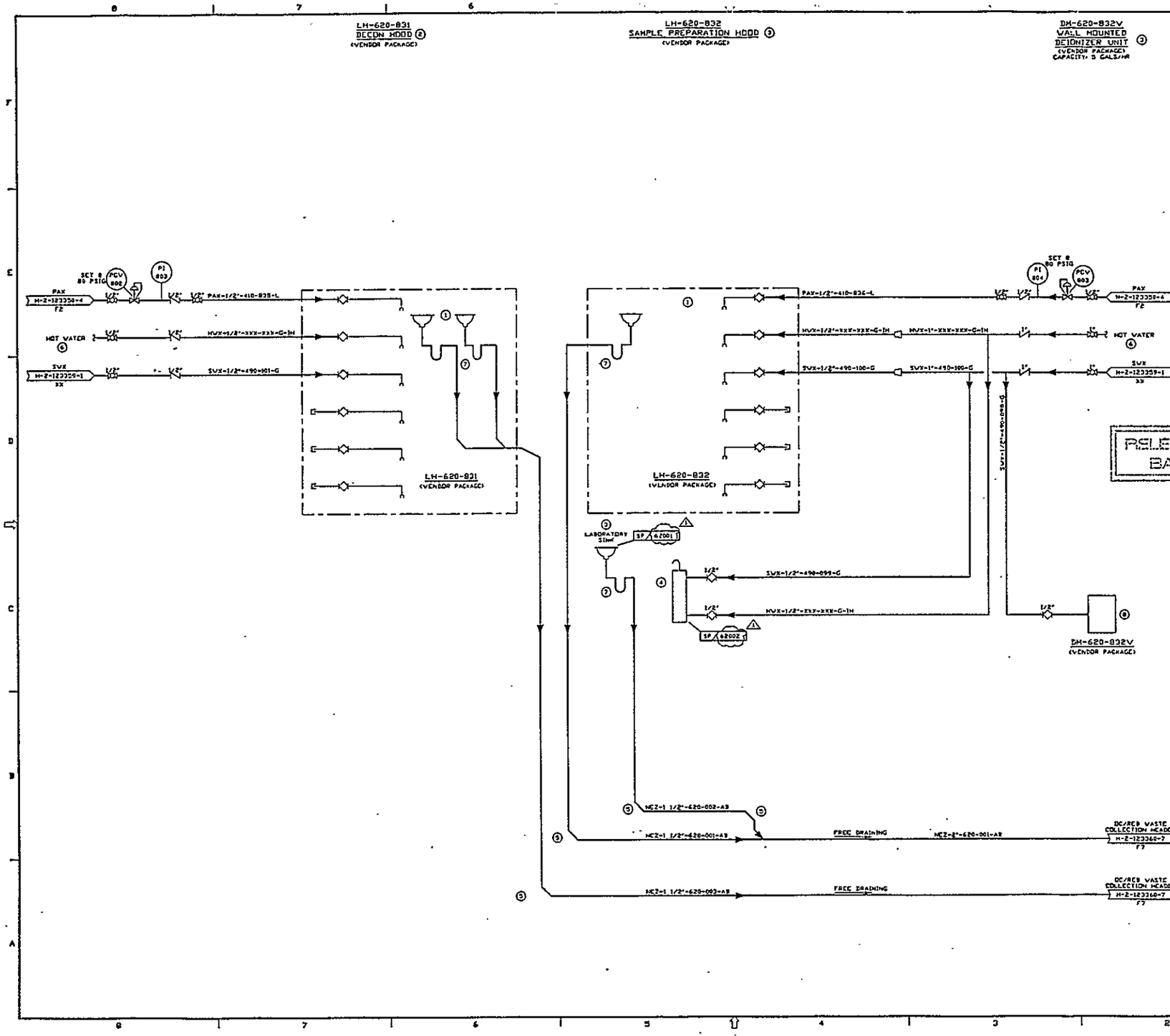
FLUOR DANIEL, INC.
ADVANCED TECHNOLOGY DIVISION

PIPING & INSTRUMENT DIAGRAM
SYSTEM 62
HPS VACUUM SYSTEM
WHT BUILDING

HANFORD WASTE VITRIFICATION PLANT

| | | | |
|---|---|---|---|
| 3-395 | 8457 | 3227 | |
| NONE | | | |
| NONE | NOT REQ'D | H-2-123370 | 7 8 3 |

AA7F0325 / CP
12 NOV 91




GENERAL NOTES:

A. FOR GENERAL NOTES REFER TO DRAWING H-2-123370-1.

NOTES:

1. PROVIDE TWO DUPLICATE RECEPTACLES 110V PLUS LIGHTING.
2. DECON HOOD IS LOCATED IN THE DC/RCB (BLDG 63) INSTRUMENT ROOM (RM 61053).
3. SAMPLE PREPARATION HOOD, LABORATORY SINK & WALL MOUNTED DEIONIZER UNIT ARE LOCATED IN THE DC/RCB (BLDG 63), LABORATORY ROOM (RM 61061).
4. UTILITY SERVICE TO LABORATORY SINK.
5. CHANGE OF DIRECTIONS FOR DRAIN LINES SHALL BE WITH 45° FITTINGS.
6. HOT WATER PLUMBING PLAN DRAWING WILL BE DEVELOPED LATER.
7. SEAL LEG SHALL BE ROUTINELY FLUSHED AND FILLED WITH WATER.
8. THE DEIONIZER UNIT IS EQUIPPED WITH LOCAL DISPENSER.

RELEASED FOR PROJECT BASELINE CONTROL

NOV 27 1991

SAFETY CLASS 3

| REV | DATE | DESCRIPTION | DRAWN | CHKD | APPROVED | APPROVED |
|---|---|---|---|---|---|---|
| 1 | 11/14/91 | ASSIGN SP NUMBERS TO SINK AND FAUCET PER CR-0607. | | | | |
| 0 | 5/22/91 | RELEASED FOR PROJECT BASELINE CONTROL PER CR-0480. | SSL | KJM | RGT | NF |
| | | | ERP | FGB | DPC | RNG |
| 01 | 2/12/91 | RELEASED FOR FLUOR DANIEL CONFIGURATION CONTROL PER CR-0476. | SSL | KJM | RGT | NF |
| | | | ERP | FGB | DPC | RNG |
| 00 | 11/22/90 | RELEASED FOR DETAILED DESIGN | SSL | KJM | RGT | NF |
| | | | ERP | FGB | DPC | RNG |

ENGINEERING RELEASE
REV. ____ DATE ____
CRD ____

| | | |
|---|---|---|
| DRAWN BY | R GISBOHS | 11/29/90 |
| DESIGN BY | D P CHAVLA | 11/29/90 |
| DESIGN BY | F BROOKS | 11/29/90 |
| DESIGN BY | R PHILLIPS | 11/29/90 |
| DESIGN BY | N FELDON | 11/29/90 |
| DESIGN BY | R G TAGNEY | 11/29/90 |
| DESIGN BY | S LEE | 11/29/90 |
| DESIGN BY | K MEHTA | 11/29/90 |
| DESIGN BY | T SHIRLEY | |

U.S. DEPARTMENT OF ENERGY
Richland Operations Office
DE - AC06-86RL10926

FLUOR DANIEL INC.
ADVANCED TECHNOLOGY DIVISION

PIPING & INSTRUMENT DIAGRAM
SYSTEM 62
DECON HOOD,
SAMPLE PREPARATION
HOOD, AND SINK

HANFORD WASTE VITRIFICATION PLANT

| | | |
|---|---|---|
| SCALE 3=595 | 8=57 | 3227 |
| NONE | | |

NONE | NOT REQ'D | H-2-123370 | 8 | 8 | 1

AA7/0306 /DAH
05 NOV 91