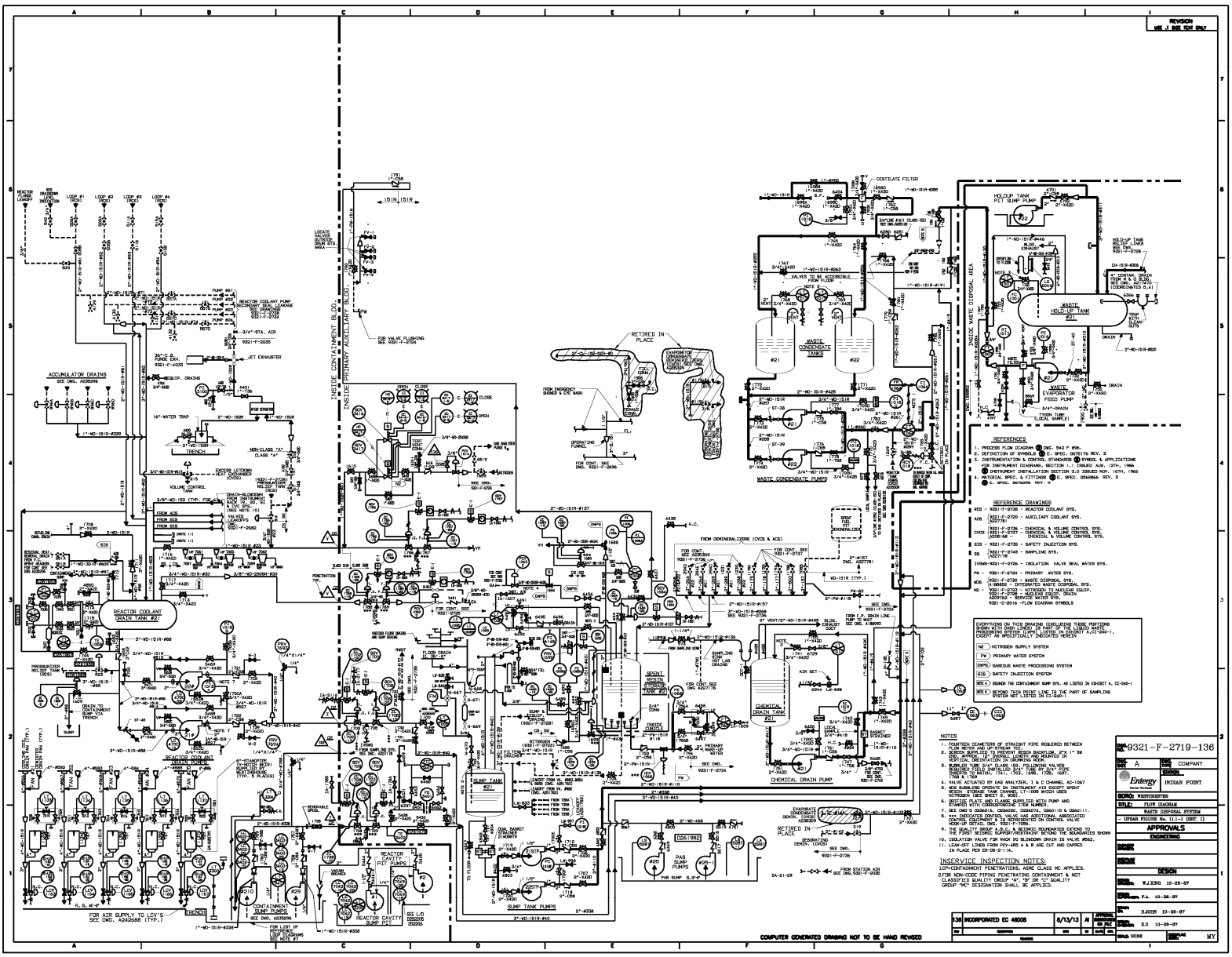


REFERENCES

1. PROCESS FLOW DIAGRAM (A) DWG. 540 F 895.
2. DEFINITION OF SYMBOLS (B) E. SPEC. 0676175 REV. 2
3. INSTRUMENTATION & CONTROL STANDARDS (C) SYMBOL & APPLICATIONS FOR INSTRUMENT DIAGRAMS, SECTION 1.1 ISSUED AUG. 13TH, 1966
   (D) INSTRUMENT INSTALLATION SECTION 3.0 ISSUED NOV. 16TH, 1966
4. MATERIAL SPEC. & FITTINGS (E) E. SPEC. 0566866 REV. 2
   (F) E. SPEC. 0676298 REV. 0

REFERENCE DRAWINGS

RCS	9321-F-2728 - REACTOR COOLANT SYS.
ACS	9321-F-2729 - AUXILIARY COOLANT SYS. A207761
CVCS	9321-F-2726 - CHEMICAL & VOLUME CONTROL SYS. 9321-F-2727 - CHEMICAL & VOLUME CONTROL SYS. A206146 - CHEMICAL & VOLUME CONTROL SYS.
SIS	9321-F-2735 - SAFETY INJECTION SYS.
SS	9321-F-2745 - SAMPLING SYS. A207178
IVSWS	9321-F-2736 - ISOLATION VALVE SEAL WATER SYS.
PW	9321-F-2734 - PRIMARY WATER SYS.
WDS	9321-F-2730 - WASTE DISPOSAL SYS. 1188680 - DISTILLATE WASTE DISPOSAL SYS.
N2	9321-F-2733 - NITROGEN TO NUCLEAR EQUIP. 9321-F-2738 - NUCLEAR GRADE DRAIN A209762 - SERVICE WATER SYS. 9321-C-2016 -FLOW DIAGRAM SYMBOLS

EVERYTHING ON THIS DRAWING (EXCLUDING PLANT POINTING DIAGRAM) WITH THE EXCEPTION OF THE LISTED WASTE PROCESSING SYSTEMS (SEE NOTE 1) LISTED IN EXHIBIT A, CE-040-1, EXCEPT AS SPECIFICALLY INDICATED HEREIN

N2	NITROGEN SUPPLY SYSTEM
PW	PRIMARY WATER SYSTEM
GWPS	GASEOUS WASTE PROCESSING SYSTEM
SIS	SAFETY INJECTION SYSTEM
NOTE 1	BOUNDS THE CONTAINMENT SUMP SYS. AS LISTED IN EXHIBIT A, CE-040-1
NOTE 2	BEYOND THIS POINT LINE IS THE PART OF SAMPLING SYSTEM NOT LISTED IN CE-040-1

NOTES

1. FOURTEEN DIAMETERS OF STRAIGHT PIPE REQUIRED BETWEEN FLOW METER AND UP-STREAM TEE.
2. BOBBIN SUPPORTED TO PREVENT BEEBH BACKFLOW. SCH 1" SM SEAMLESS TUBING PER ASTM A213 TP304 OR TP316L. INSTALLED PER ELECTRICAL INSTALLATION SPEC.
3. BUBBLER TUBE 3/4" CLASS 150, FOLLOWING VALVES REQUIRED TO BE INSTALLED IN THE TUBE PER PIPE TOUCHUP SPECIFICATION. (741, 733, 1236, 1235, 1697, 1698).
4. VALVE ACTUATED BY GAS ANALYSIS, 1 & 2 CHANNEL AD-1067
5. WHEN SUMP ISOLATION IS INITIATED, AIR EXCEPT SPENT RESIN STORAGE TANK CHANGES LT-1006 WHICH USES NITROGEN (SEE SHEET 2, WDS).
6. SPECIFIC PLATE AND FLANGE SUPPLIED WITH PUMP AND STAMPED WITH CORRESPONDING ITEM NUMBER.
7. SEE DWG'S 0206414, 0206474, 0566110 & 0566111.
8. *** INDICATES CONTROL VALVE HAS ADDITIONAL ASSOCIATED INSTRUMENTS. SEE DWG'S 0206414 ON CONTROL VALVE HOOK-UP DETAIL, DWG. 9321-F-2726.
9. THE QUALITY GROUP A,B,C, & SEISMIC BOUNDARIES EXTEND TO THE FIRST SEISMIC SUPPORT/RESTRAINT BEYOND THE BOUNDARIES SHOWN
10. ISOLATION VALVE FOR BACK DO BLOWDOWN DRAIN IS VALVE #563.
11. LEAK-OFF LINES FROM RCV-425 A & B ARE CUT AND CAPPED IN PLACE PER EP-06-2-114.

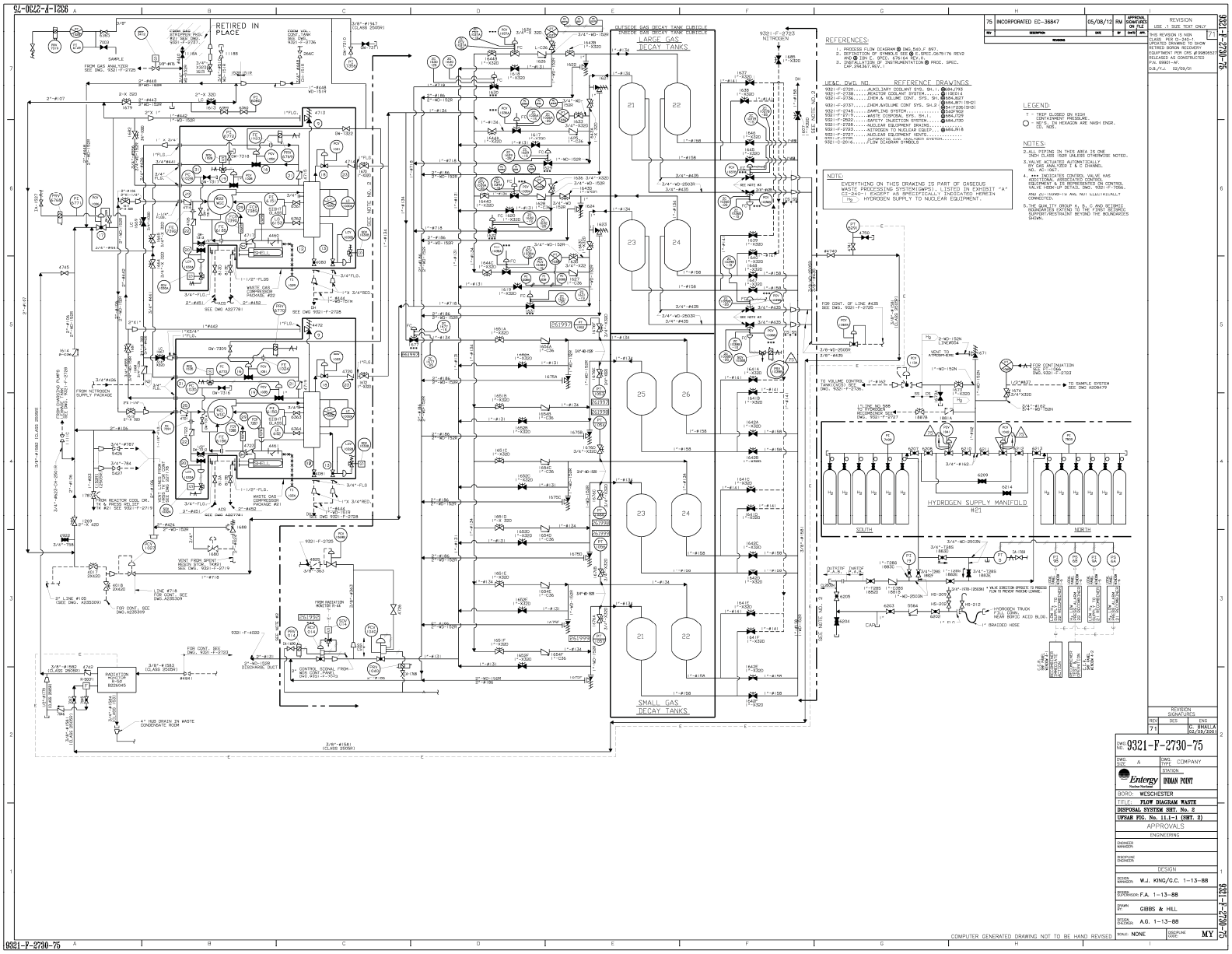
INSERVICE INSPECTION NOTES:

1.CP=CONTAINMENT PENETRATING, ASME CLASS MC APPLIES.
2.FOR NON-CODE PIPING PENETRATING CONTAINMENT & NOT CLASSIFIED QUALITY GROUP "A", "B" OR "C" QUALITY GROUP "MC" DESIGNATION SHALL BE APPLIED.

130	INCORPORATED EC 46008	6/13/13	M

DWG. NO.	9321-F-2719-136
REV.	A
SCALE	NONE
COMPANY	Entergy
STATION	INDIAN POINT
BORO:	WESTCHESTER
TITLE:	FLOW DIAGRAM WASTE DISPOSAL SYSTEM - UPDAT PSSCRS No. 11.1-1 (SHT. 1)

APPROVALS
ENGINEERING
DESIGN
DRAWN W.ZING 10-26-87
CHK'D F.A. 10-26-87
DSGN ENGR D.DOIN 10-26-87
SUPV E.D. 10-26-87
SCALE NONE
MY


RETIRED IN PLACE
OUTSIDE GAS DECAY TANK CUBICLE
INSIDE GAS DECAY TANK CUBICLE
LARGE GAS DECAY TANKS
SMALL GAS DECAY TANKS
HYDROGEN SUPPLY MANIFOLD #21
SOUTH
NORTH
REFERENCES:
1. PROCESS FLOW DIAGRAM DWG.540.F 897.
2. ASME B&PV CODE, SECTION III, CLASS C, SPEC.0679176 REV2 AND ASME B31.1 CODE, SPEC.0679177.
3. INSTALLATION OF INSTRUMENTATION PROC. SPEC. CAP.294867,REV.1.
LIST: DWG NO. REFERENCE DRAWINGS
9321-F-2720.....AUXILIARY COOLANT SYS. SH.1 A94,793
9321-F-2738.....REACTOR COOLANT SYSTEM.....01DD14
9321-F-2736.....CHEM.& VOLUME CONT. SYS. SH.1 A94,827
9321-F-2737.....CHEM.&VOLUME CONT SYS. SH.2 A94,871 (5-2)
9321-F-2745.....SAMPLING SYSTEM..... A94,923 (5-3)
9321-F-2719.....WASTE DISPOSAL SYS. SH.1..... A94,729
9321-F-2520.....SAFETY INJECTION SYSTEM..... A94,730
9321-F-2735.....NUCLEAR EQUIPMENT DRAINS
9321-F-2725.....NITROGEN TO NUCLEAR EQUIP.... A94,918
9321-F-2721.....NUCLEAR EQUIPMENT VENTS.....
9321-F-2723.....NITROGEN SUPPLY SYSTEM.....
9321-C-2016.....FLOW DIAGRAM SYMBOLS
NOTE:
EVERYTHING ON THIS DRAWING IS PART OF GASEOUS WASTE PROCESSING SYSTEM(GWPS), LISTED IN EXHIBIT "A" EC-240-GWPS-1 AND PROCESSED AS SPECIFICALLY DEDICATED PERMITS
HYDROGEN SUPPLY TO NUCLEAR EQUIPMENT.
LEGEND:
T - TRIP CLOSED ON HIGH
P - PRESSURE INDICATOR
NO'S. IN HEXAGON ARE NASH ENGR. CO. NOS.
NOTES:
2. ALL PIPING IN THIS AREA IS ONE INCH CLASS 150# UNLESS OTHERWISE NOTED.
3. VALVE ACTUATED AUTOMATICALLY BY GAS ANALYZER I & C CHANNEL NO. AC-1067.
4. *** INDICATES CONTROL VALVE HAS ADDITIONAL ASSOCIATED CONTROL VALVES. SEE VALVE CONTROL DIAGRAM VALVE TIER-UP DETAIL DWG. 9321-F-7056.
ANU-EC-1GPWR-1X AND ANU 1LSSC1R1ALL1T CONNECTED.
5. THE QUALITY GROUP A, B, C AND SEISMIC: BOUNDARIES EXTEND TO THE FIRST REMOTE SUPPORT/RESTRAINT BEYOND THE BOUNDARIES SHOWN.
REVISION
USE 1 SIZE TEXT ONLY
THIS REVISION IS NON CLASS PER QI-240-1 UPDATE DRAWING TO SHOW NEW CONTROL VALVE EQUIPTMENT PER CR# P0805051 RELEASED AS CONSTRUCTED
P.N. 69931-AF
D.B./T.J. 02/09/01
REVISION SIGNATURES
REV RES ENG
71 G. BHALLA 04/05/2001
DWG NO. 9321-F-2730-75
DWG SIZE A
OWN TYPE COMPANY
STATION INDIAN POINT
BORO: WESCHESTER
TITLE: FLOW DIAGRAM WASTE DISPOSAL SYSTEM SHT. No. 2
UFSAR FIG. No. 11.1-1 (SHT. 2)
APPROVALS
ENGINEERING
ENGINEER MANAGER
DISCIPLINE ENGINEER
DESIGN
DESIGN MANAGER W.J. KING/G.C. 1-13-88
DESIGN ENGINEER F.A. 1-13-88
DRAWN BY GIBBS & HILL
DESIGNER A.G. 1-13-88
SCALE NONE
DISCIPLINE CODE MY
COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED
9321-F-2730-75