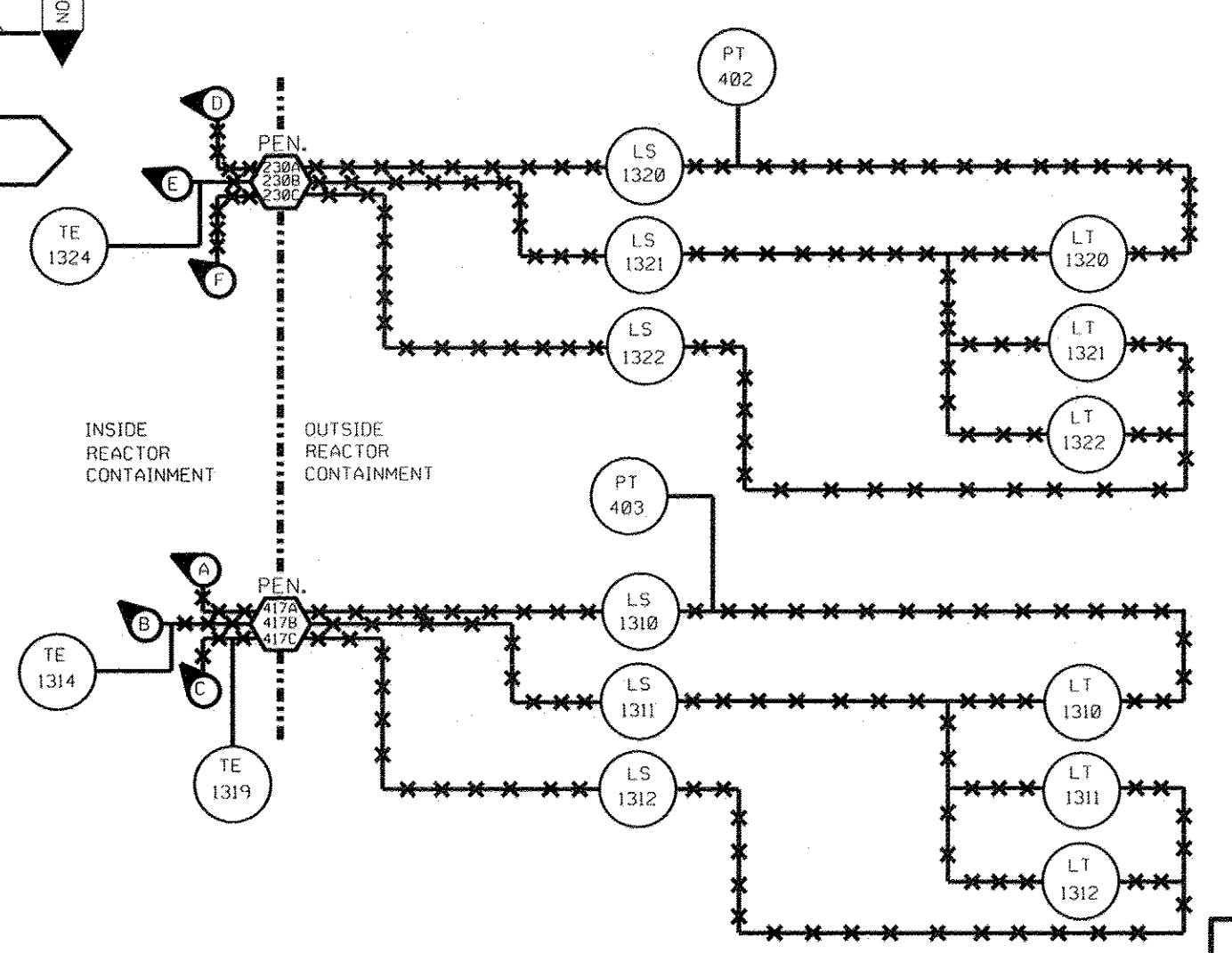


- NOTES:
1. THIS DRAWING IS BASED UPON DWG. 114E072, SHEET 1 OF 3, REVISION 12 (BASE DRAWING) OF WESTINGHOUSE ELECTRIC CORPORATION, NUCLEAR ENERGY SYSTEMS, PITTSBURGH, PA WHO IS SOLELY RESPONSIBLE FOR THE ACCURACY OR THE RELIABILITY OF THE DESIGN INFORMATION SET FORTH IN THE BASE DRAWING.
 2. FOR ALPHA REFERENCES, SEE DWG. E-302-002, FLOW DIAGRAM LEGEND.
 3. PIPING, WITHIN THESE FLATS TO MEET ALL REQUIREMENTS, EXCEPT FOR STAMPING OF ASME CODE SECTION III, CLASS 2 AND IS SPECIFICALLY INCLUDED IN THE SCOPE OF SPECIFICATION ISP-544-84461-8000.
 4. FOR CONVENTIONAL PIPING SPECIFICATIONS, SEE GAI SPECIFICATION SP-329-4461-00, PAGE 24, (WESTINGHOUSE PIPE CLASS CONVERSION TO ENGINEER'S PIPE LINE SPECIFICATION).
 5. 2.9" INSIDE DIAMETER.
 6. 3.1" INSIDE DIAMETER.
 7. 2.75" INSIDE DIAMETER.
 8. PROVIDE FLOW RESTRICTOR PER NOTE 4, SEE DWG. E-302-002, FLOW DIAGRAM LEGEND.
 9. LOCATE CONNECTION IN BOTTOM HALF OF REACTOR COOLANT PIPING ON 45° ANGLE TO VERTICAL.
 10. 3" BY 29" REDUCING ELBOW.
 11. STRAP ON SURFACE MOUNTED T/C.
 12. 3/4" FLOW RESTRICTING ORIFICE.
 13. FOR DETAILS OF THE REACTOR VESSEL WATER SYSTEM, REFER TO FLOW DIAGRAM '9598049 (DMS-51-680).
- (CONT'D N-9)

- NOTES (CONT'D):
14. PER WESTINGHOUSE SYSTEM DESCRIPTION TWO SEPARATE VALVE LINEUP CONFIGURATIONS ARE ACCEPTABLE FOR THESE VALVES, THEY ARE:
1. XVT-8095A & B CLOSED; XVT-8096A & B OPEN
2. XVT-8095A & B OPEN; XVT-8096A & B CLOSED
VALVE CONFIGURATION #1 IS SHOWN ON THIS DRAWING FOR CONVENIENCE ONLY.
 15. DUAL ELEMENT RTD; ONE ACTIVE & ONE SPARE.
 16. LOCATE THERMOWELL ON UPPER 180° OF PIPE CIRCUMFERENCE.
 17. LT-1330 & LT-1331 ARE NON-NUCLEAR SAFETY STRAP-ON SENSORS WHICH DO NOT PENETRATE THE PIPE, AND ARE USED ONLY DURING MID LOOP (NON-POWER) OPERATION.
 18. THIS FLANGE HAS BEEN DRILLED AND TAPPED TO ACCEPT A 1/4" SWAGE LOCK FITTING WITH A 3/8" CAP.



ESSENTIAL

THIS IS A NUCLEAR SAFETY RELATED DOCUMENT. NO DEVIATION SHALL BE INITIATED OR PERFORMED WITHOUT PRIOR DOCUMENTATION AND WRITTEN APPROVAL.

FSAR Figure 5.1-1, Sht. 1

SOUTH CAROLINA ELECTRIC & GAS COMPANY
 VIRGIL C. SUMNER NUCLEAR STATION
 PIPING SYSTEM FLOW DIAGRAM
 REACTOR COOLANT

DESIGN ENGINEERING	CLASS 1
AVN	MGR
DDS	
E-302-601	20
DRAWING NUMBER	SHT. NUMBER

NO.	DATE	BY	REVISION	CHKD. BY	APPROVAL
17	11/27/83	DDJ	CADD ENHANCED PER ECR-50239	MGR	DDJ
16	11/18/82	DDJ	REVISED PER ECR-70276	MGR	TOC
15	01/08/80	JTS	REVISED PER CGSS-97-0569	LEK	MGR
20	5/9/77	JMR	REVISED PER ECR-50897	RHM	DH
19	09/17/74	DDJ	REVISED PER ECR-72002	MGR	SC
18	8/30/75	RHM	REVISED PER ECR-70765	MGR	RHM

