

- NOTES:
1. THE AIR DISTRIBUTION IN THE PENETRATION ROOMS SHALL BE PROVIDED BY DISCHARGE FROM THE FLOOR INTO EACH ROOM. RETURN AIR WILL BE PICKED UP NEAR THE CEILING TO AVOID SHORT CIRCUIT OF THE SUPPLY AIR. BOTH SUPPLY AND EXHAUST TO BE LOCATED ABOVE FLOOR LEVEL.
 2. SPACE ALSO COOLED BY SYSTEM 1555.
 3. ALL DUCT IS 015 UNLESS OTHERWISE NOTED.
 4. RADIATION INLET VALVES TO BE LOCATED NEAR MONITOR/DPN.
 5. ALL PIPING RUNS FOR RADIATION SAMPLING LINES EMPLOY 50 RADIUS BENDS.
 6. DELETED.
 7. CONTROL AIR TO INFLATABLE SEAL ON BUBBLELIGHT DAMPER.
 8. * DERATED FIRE DAMPER.

SOUTHERN COMPANY
GEORGIA POWER COMPANY
ALVIN W. VOGTE NUCLEAR PLANT

P & I DIAGRAM
PIPING PENETRATION AREA FILTRATION & EXHAUST SYSTEM
SYSTEM NO. 1561

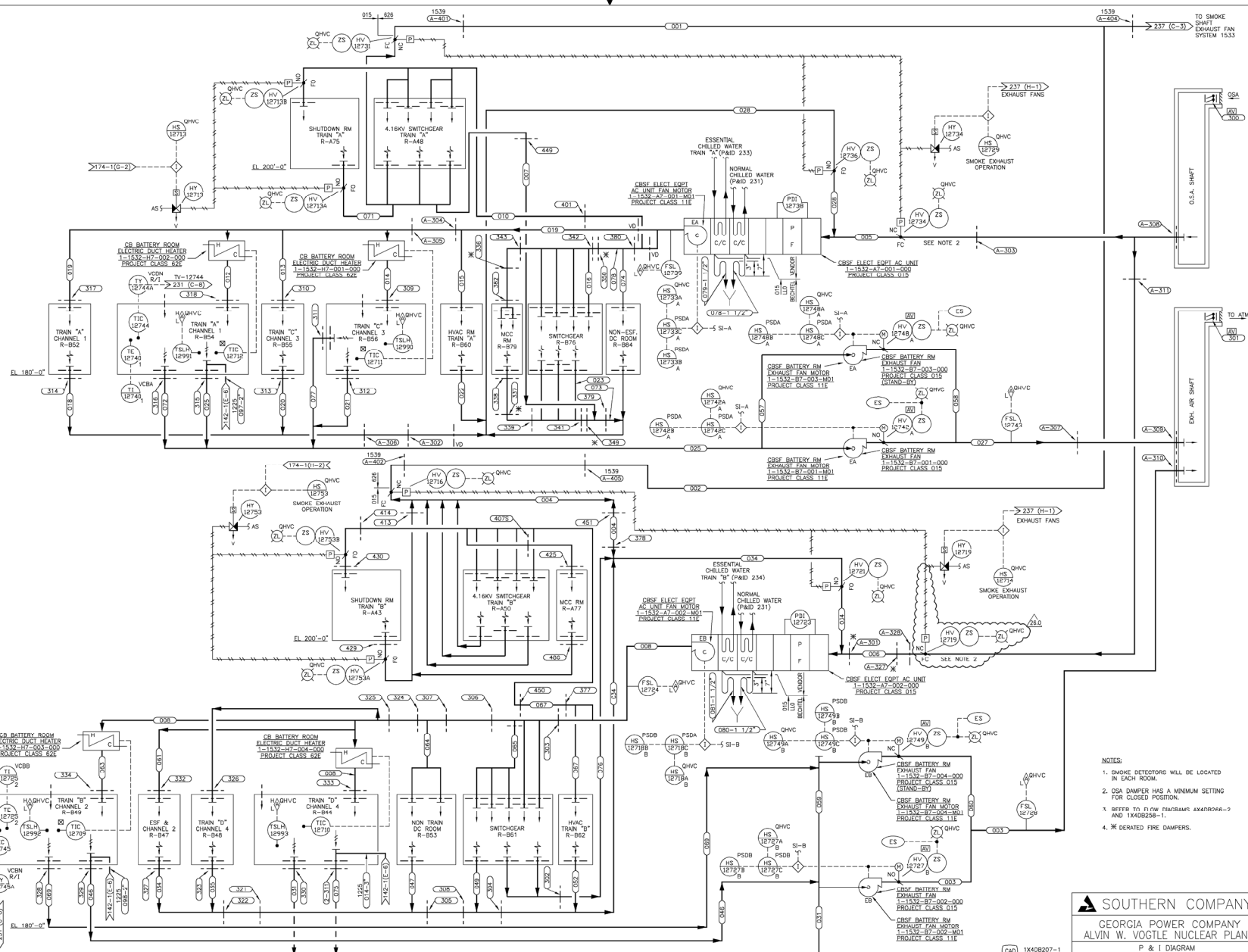
CAD 1X4DB205-2
ACAD2002 NJ - 01

SCALE: NONE
DRAWING NO. 1X4DB205-2
JOB NO. 10804
DATE: 10/1/84
SHEET 6 OF 6

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16.0 REDRAWN PER ASN-52220, VER. 1.0
DATE: 10/1/84
BY: 1009
CHK: 1009
REV: 1.0

1 DRAWING CATEGORY: CRITICAL

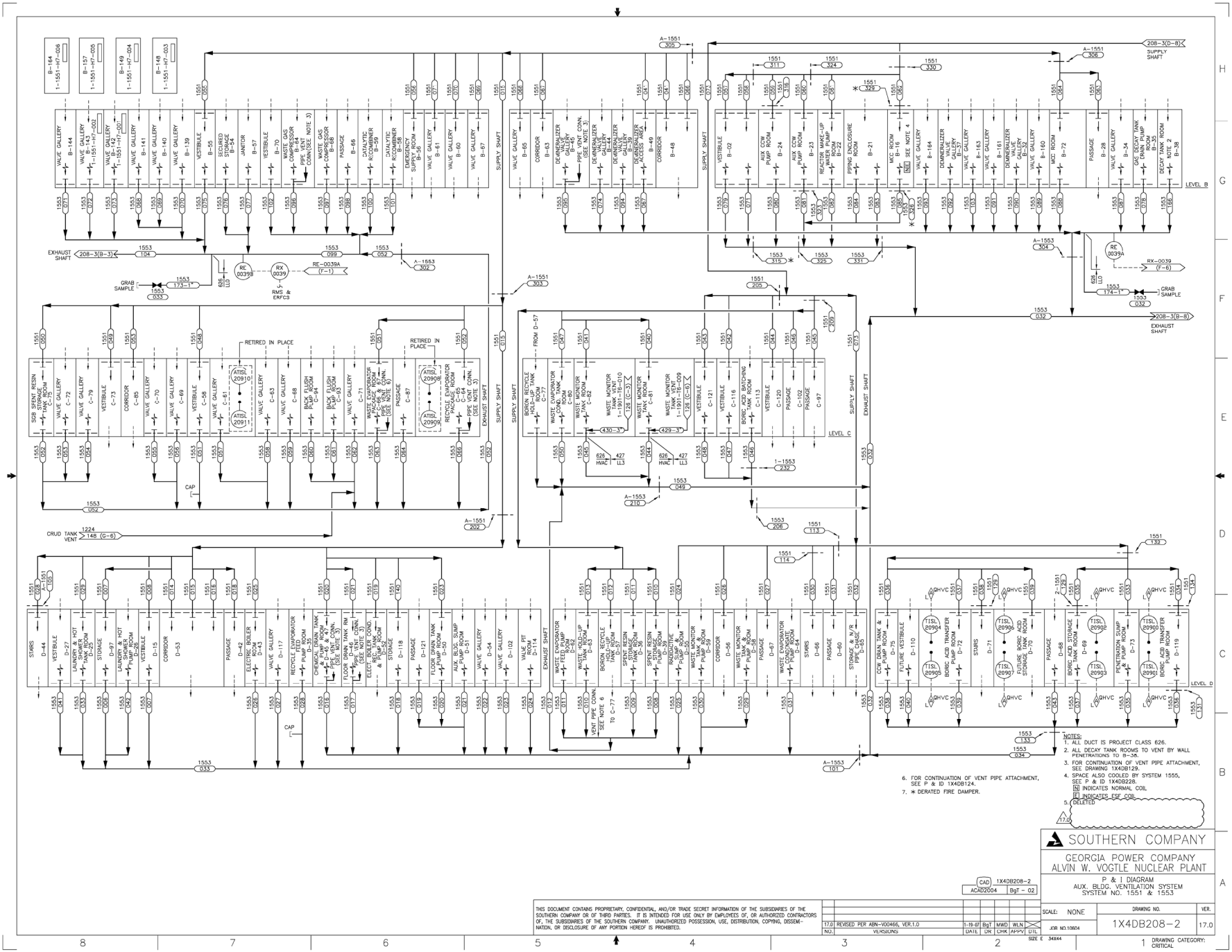


- NOTES:
1. SMOKE DETECTORS WILL BE LOCATED IN EACH ROOM.
 2. OSA DAMPER HAS A MINIMUM SETTING FOR CLOSED POSITION.
 3. REFER TO FLOW DIAGRAMS AX440968-2 AND 1X4DB258-1.
 4. * DERATED FIRE DAMPERS.

SOUTHERN COMPANY
 GEORGIA POWER COMPANY
 ALVIN W. VOGTLE NUCLEAR PLANT
 P & I DIAGRAM
 CONTROL BUILDING SAFETY FEATURE ELEC
 EQUIPMENT ROOM LEVEL B HVAC SYSTEM
 SYSTEM NO. 1532

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CAD 1X4DB207-1 ACAD2000 Bgt - 02		SCALE: NONE		DRAWING NO. 1X4DB207-1		VER. 26.0	
26.0 REVISED PER ABR-V0120R, VER.1.0	7-1-08 Bgt	WMM	PMU	X	JOB NO. 10004	26.0	
DATE: 10/1/08		DATE: 10/1/08		DATE: 10/1/08		DATE: 10/1/08	
VERSIONS		VERSIONS		VERSIONS		VERSIONS	
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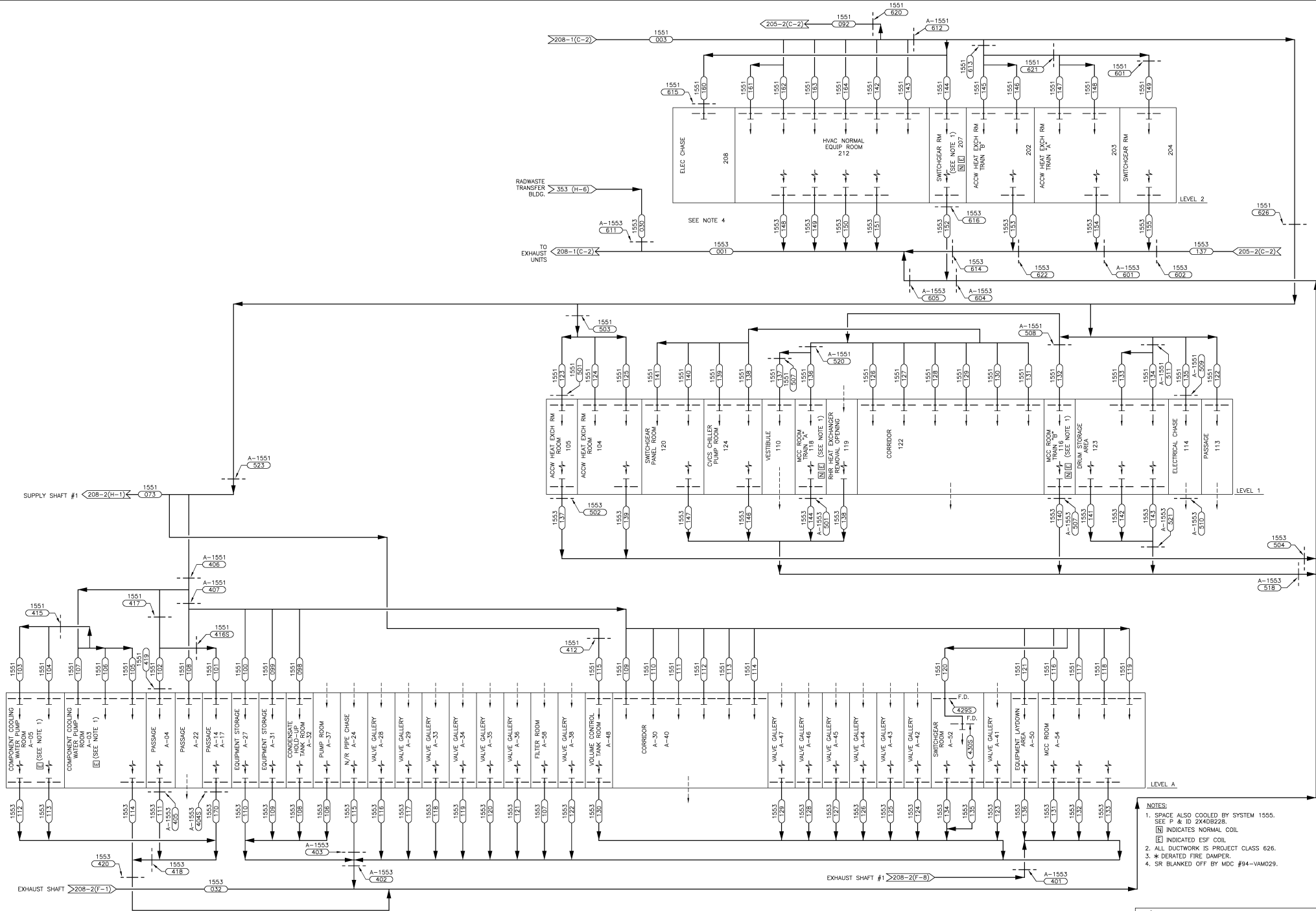
SOUTHERN COMPANY
 GEORGIA POWER COMPANY
 ALVIN W. VOGTE NUCLEAR PLANT
 P & I DIAGRAM
 AUX. BLDG. VENTILATION SYSTEM
 SYSTEM NO. 1551 & 1553

CAD 1X4DB208-2
 ACAD2004 Bgt - 02


SCALE: NONE
 DRAWING NO. 1X4DB208-2
 VER. 17.0
 DATE: 11/14/01
 JOB NO. 10004
 SCALE: 1/8" = 1'-0"

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- FOR CONTINUATION OF VENT PIPE ATTACHMENT, SEE P & I D 1X4DB208-2A.
- ALL DECAY TANK ROOMS TO VENT BY WALL PENETRATIONS TO B-35.
- FOR CONTINUATION OF VENT PIPE ATTACHMENT, SEE DRAWING 1X4DB208-2B.
- SPACE ALSO COOLED BY SYSTEM 1555, SEE P & I D 1X4DB208-2B.
- INDICATES NORMAL COIL.
- DELETED.



- NOTES:
- 1. SPACE ALSO COOLED BY SYSTEM 1555. SEE P & ID 2X40B228.
 - 2. ALL DUCTWORK IS PROJECT CLASS 626.
 - 3. * DERATED FIRE DAMPER.
 - 4. SR BLANKED OFF BY MDC #94-VM029.



SOUTHERN COMPANY

GEORGIA POWER COMPANY

ALVIN W. VOGTLE NUCLEAR PLANT

P & I DIAGRAM

AUXILIARY BUILDING

VENTILATION SYSTEM

SYSTEM NO. 1551 & 1553

CAD 1X4DB208-3
ACAD2004 CYN - 01

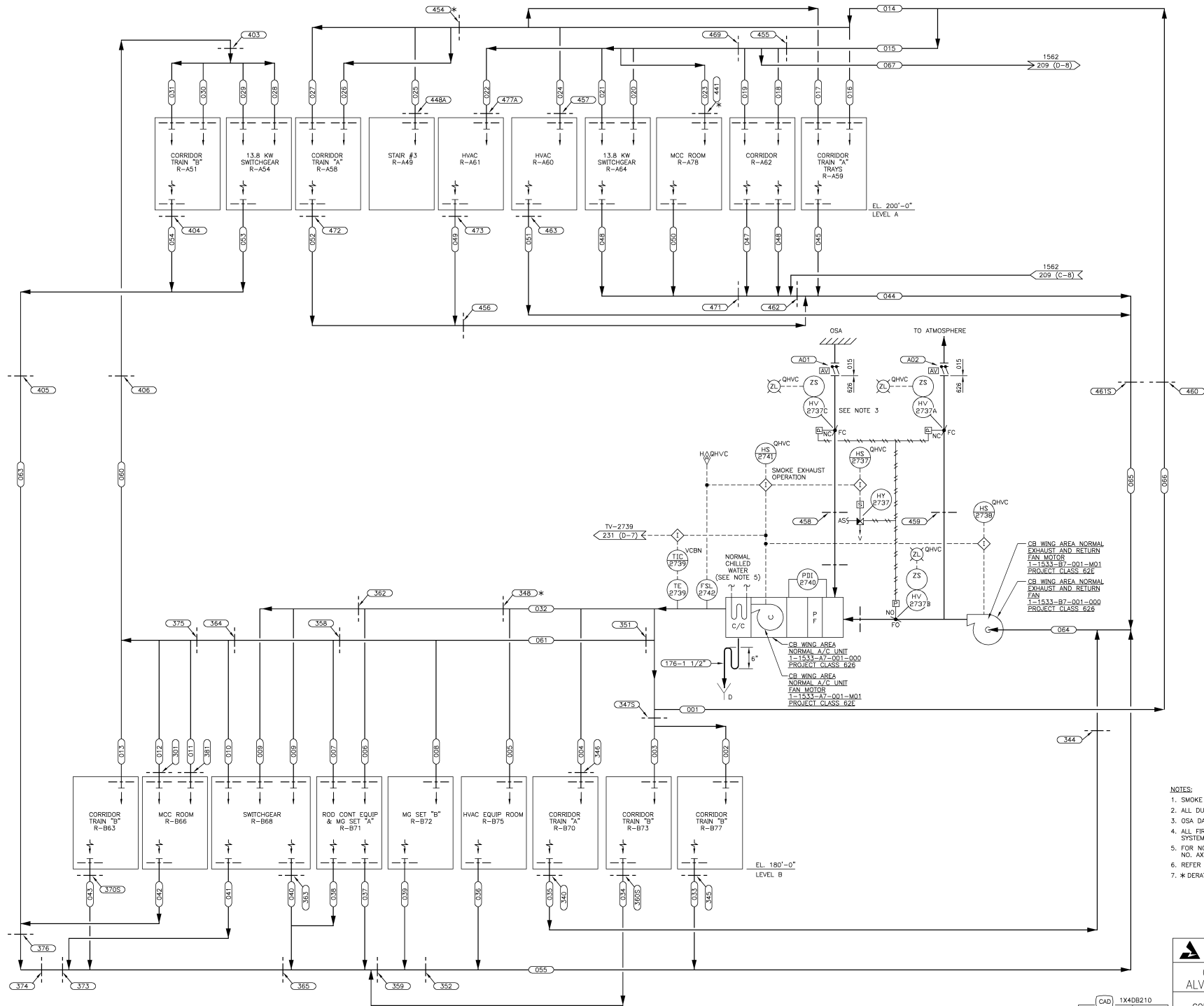
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12.0 REDRAWN PER ABN-V0223, VER. 1.0.
NO. 1
VERSIONS

1-4-07 CYN LCF SHS X
DATE DR CHK APPR DTI
SEE E 34544

SCALE: NONE DRAWING NO. VER.
1X4DB208-3 12.0

DRAWING CATEGORY: CRITICAL



- NOTES:
1. SMOKE DETECTORS WILL BE LOCATED IN EACH ROOM.
 2. ALL DUCT WORK IS PROJECT CLASS 626.
 3. OSA DAMPER HAS MINIMUM SETTING FOR CLOSED POSITION.
 4. ALL FIRE DAMPERS AND TORNADO PROOF DAMPERS ARE SYSTEM 1533 UNLESS OTHERWISE NOTED.
 5. FOR NORMAL CHILLED WATER CONNECTION SEE P & ID NO. AX4DB231.
 6. REFER TO FLOW DIAGRAM 1X4DB257-1.
 7. * DERATED FIRE DAMPER.

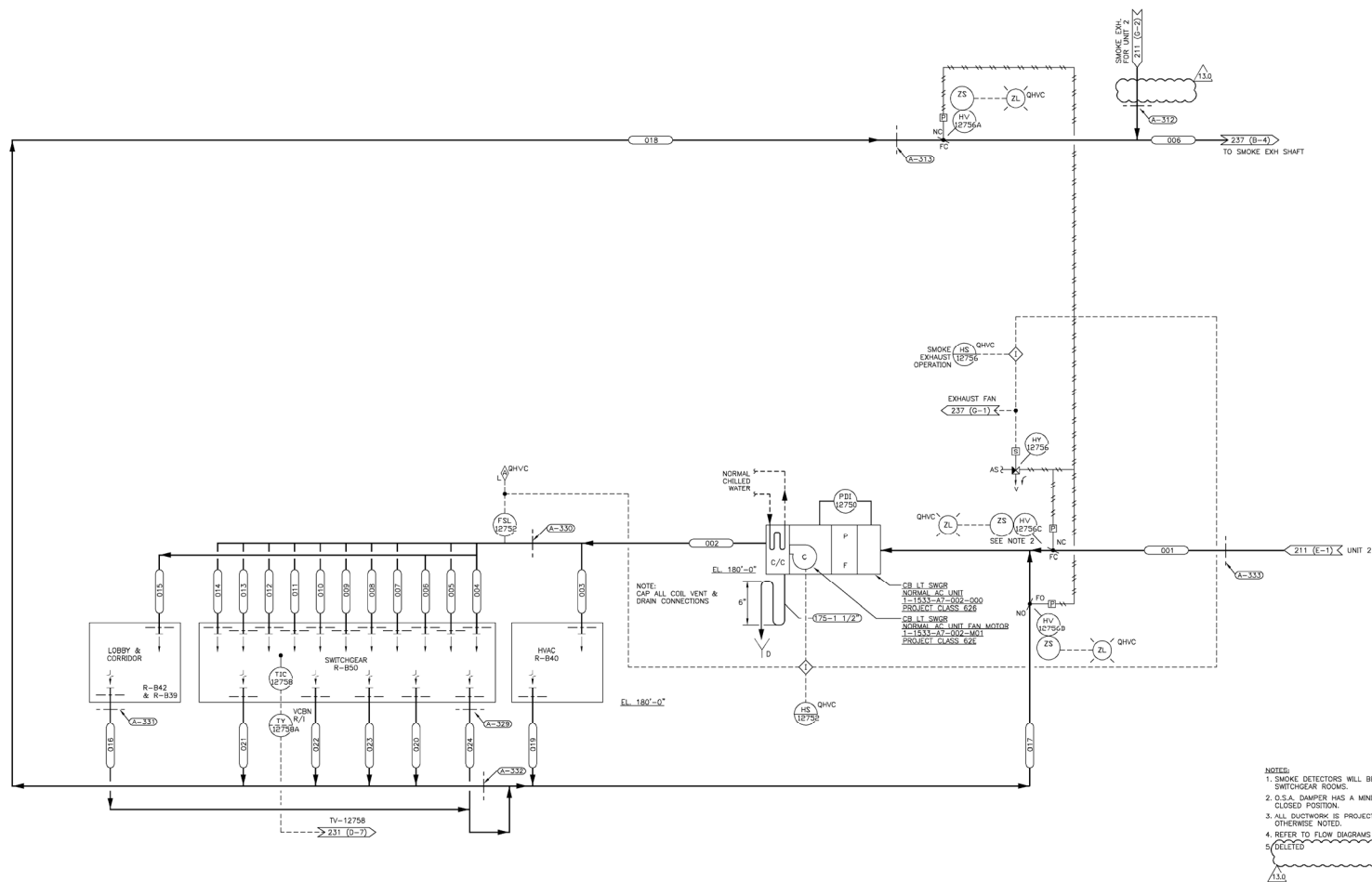
SOUTHERN COMPANY
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT
P & I DIAGRAM
CONTROL BLDG. WING AREA LEVEL A & B
NORMAL HVAC SYSTEM
SYSTEM NO. 1533

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10.0	REDRAWN PER ABN-V70052, VER. 1.0	6-1-06	CYN	LCP	EPD	X
NO.	DATE	DR	CHK	APPV	DTL	SEE E

SCALE: NONE	DRAWING NO.	VER.
	1X4DB210	10.0

DRAWING CATEGORY: CRITICAL



NOTES:
1. SMOKE DETECTORS WILL BE LOCATED IN THE NORMAL
SWITCHGEAR ROOMS.
2. O.S.A. DAMPER HAS A MINIMUM SETTING FOR
CLOSED POSITION.
3. ALL DUCTWORK IS PROJECT CLASS 626 UNLESS
OTHERWISE NOTED.
4. REFER TO FLOW DIAGRAMS AX40B266-2 & 1X40B266-1.
5. DELETED

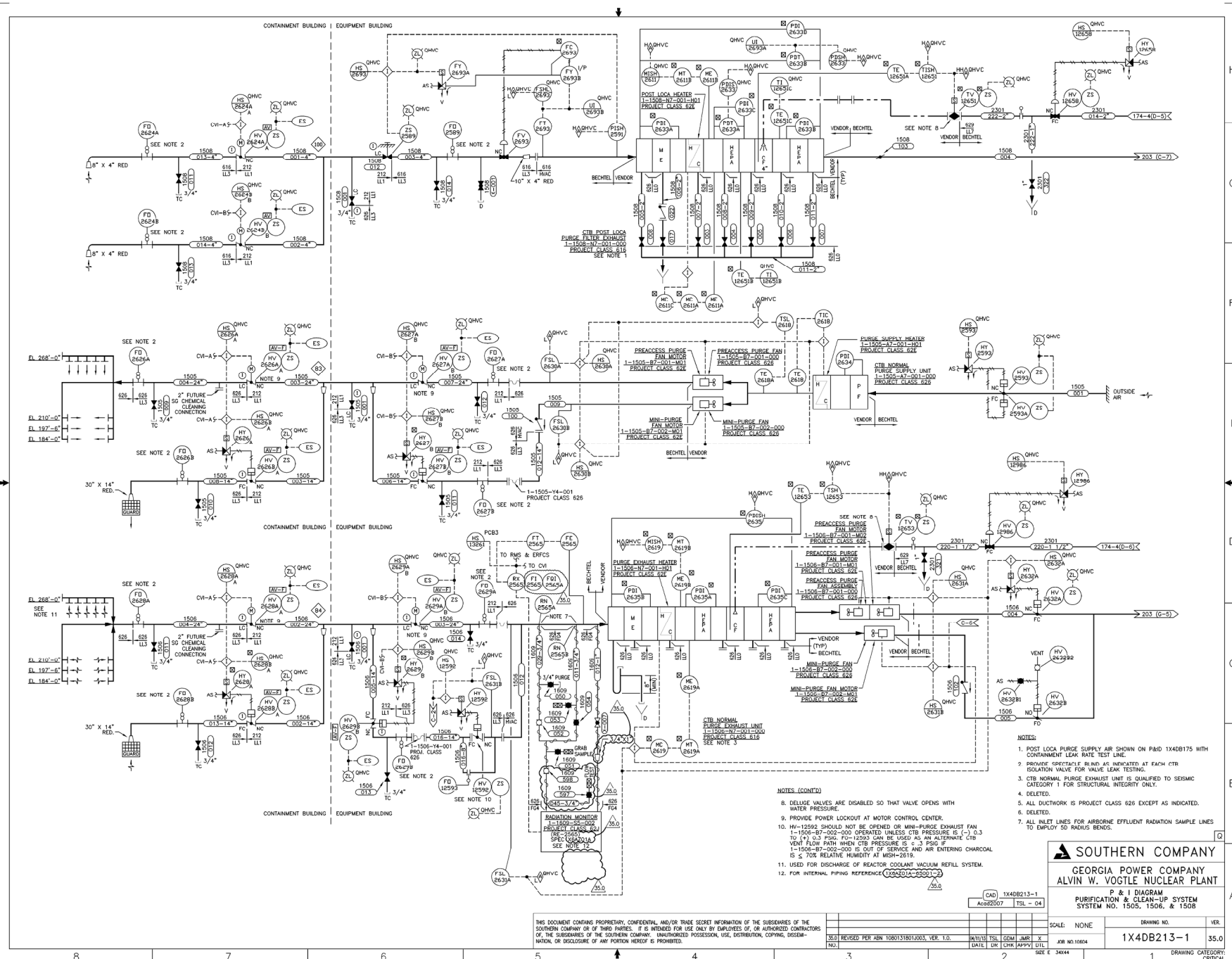
SOUTHERN COMPANY
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT
P & I DIAGRAM
CONTROL BUILDING LEVEL B
NORMAL HVAC SYSTEM
SYSTEM NO. 1533

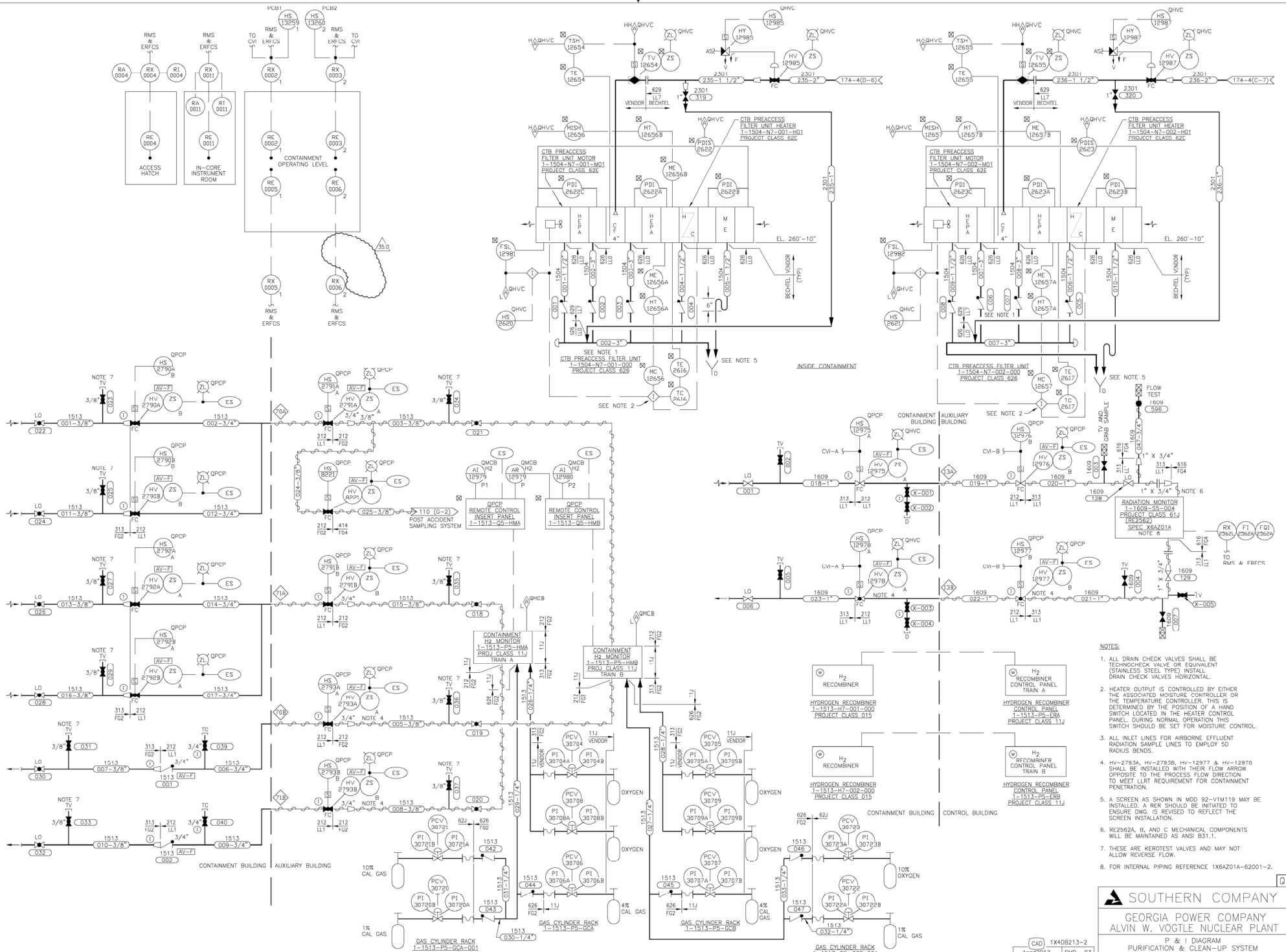
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CAD	1X40B211
ACAD2002	Bgt - 02
REVISIONS	
13.0	REVISED PER ABR-V0446, VER.1.0
DATE	1-18-07
BY	Bgt
CHECKED	MLN
DATE	1-18-07
BY	CHK
DATE	1-18-07
BY	CHK
DATE	1-18-07
BY	CHK

SCALE:	NONE
DRAWING NO.	1X40B211
VER.	13.0

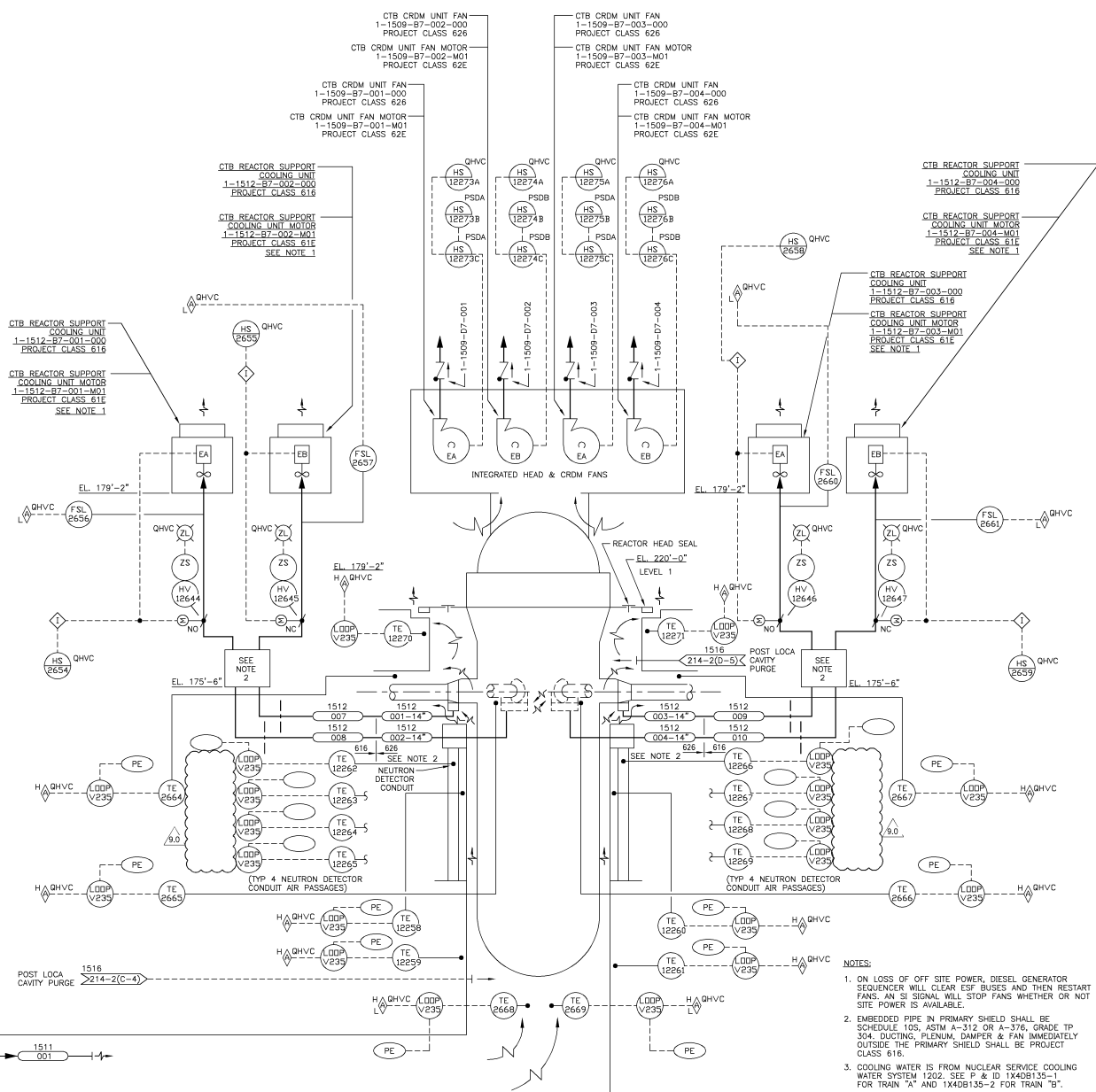
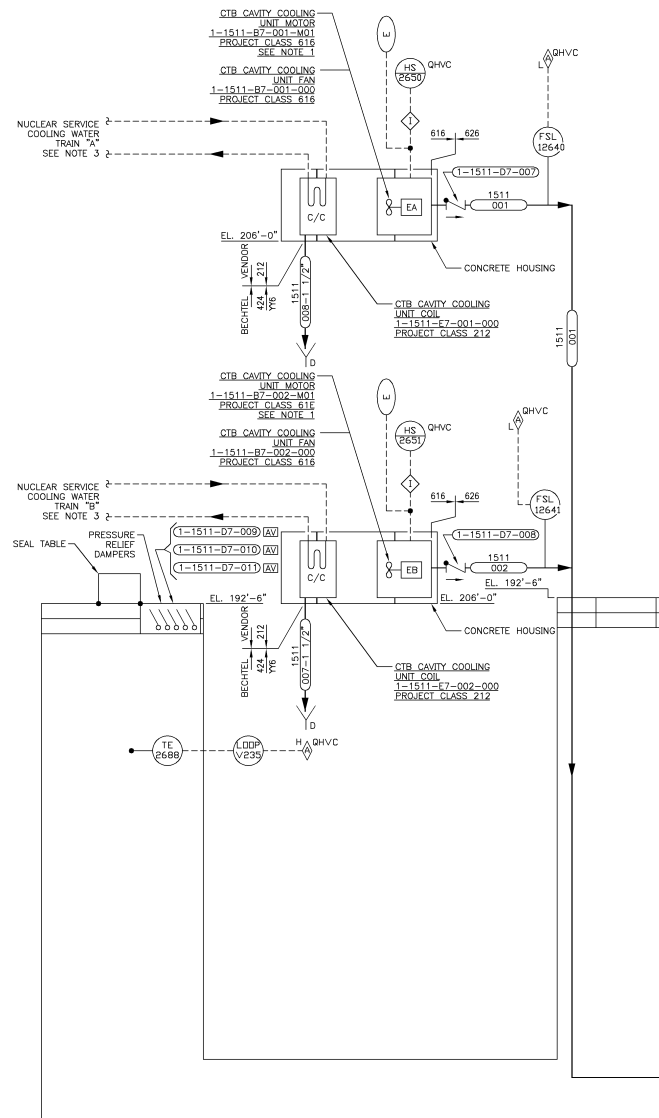
DRAWING CATEGORY: CRITICAL





- NOTES:
1. ALL DRAIN CHECK VALVES SHALL BE TECHCHECK VALVE OR EQUIVALENT (STAINLESS STEEL TYPE) INSTALL DRAIN CHECK VALVES HORIZONTAL.
 2. HEATER OUTPUT IS CONTROLLED BY EITHER THE ASSOCIATED MOISTURE CONTROLLER OR THE TEMPERATURE CONTROLLER. THIS IS DETERMINED BY THE POSITION OF A HAND SWITCH LOCATED IN THE HEATER CONTROL PANEL DURING NORMAL OPERATION THIS SWITCH SHOULD BE SET FOR MOISTURE CONTROL.
 3. ALL INLET LINES FOR AIRBORNE EFFLUENT RADIATION SAMPLE LINES TO EMPLOY 50 RADIOS BENDS.
 4. HV-2793A, HV-2793B, HV-12977 & HV-12978 SHALL BE INSTALLED WITH THEIR FLOW ARROW OPPOSITE TO THE PROCESS FLOW DIRECTION TO MEET LIST REQUIREMENT FOR CONTAMINANT PENETRATION.
 5. A SCREEN AS SHOWN IN MDD 92-V1M119 MAY BE INSTALLED. A RER SHOULD BE INITIATED TO ENSURE DWS IS REVERSED TO REFLECT THE SCREEN INSTALLATION.
 6. RE2562A, B, AND C MECHANICAL COMPONENTS WILL BE MAINTAINED AS ANSI B31.1.
 7. THESE ARE KEROTEST VALVES AND MAY NOT ALLOW REVERSE FLOW.
 8. FOR INTERNAL PIPING REFERENCE 1X6A201A-62001-2.

SOUTHERN COMPANY
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT
P & I DIAGRAM
PURIFICATION & CLEAN-UP SYSTEM
SYSTEM NO. 1504 & 1513



- NOTES:
1. ON LOSS OF OFF SITE POWER, DIESEL GENERATOR SEQUENCER WILL CLEAR ESF BUSES AND THEN RESTART FANS. AN SI SIGNAL WILL STOP FANS WHETHER OR NOT SITE POWER IS AVAILABLE.
 2. EMBEDDED PIPE IN PRIMARY SHIELD SHALL BE SCHEDULE 10S, ASTM A-312, OR A-376, GRADE TP 304. DUCTING, PLENUM, DAMPER & FAN IMMEDIATELY OUTSIDE THE PRIMARY SHIELD SHALL BE PROJECT CLASS 616.
 3. COOLING WATER IS FROM NUCLEAR SERVICE COOLING WATER SYSTEM 1202. SEE P & ID 1X4DB135-1 FOR TRAIN "A" AND 1X4DB135-2 FOR TRAIN "B".

SOUTHERN COMPANY
GEORGIA POWER COMPANY
ALVIN W. VOGTE NUCLEAR PLANT

P & I DIAGRAM
CONTAINMENT, CRDM, CAVITY &
REACTOR SUPPORT COOLING SYSTEM
SYSTEM NO. 1509, 1511 & 1512

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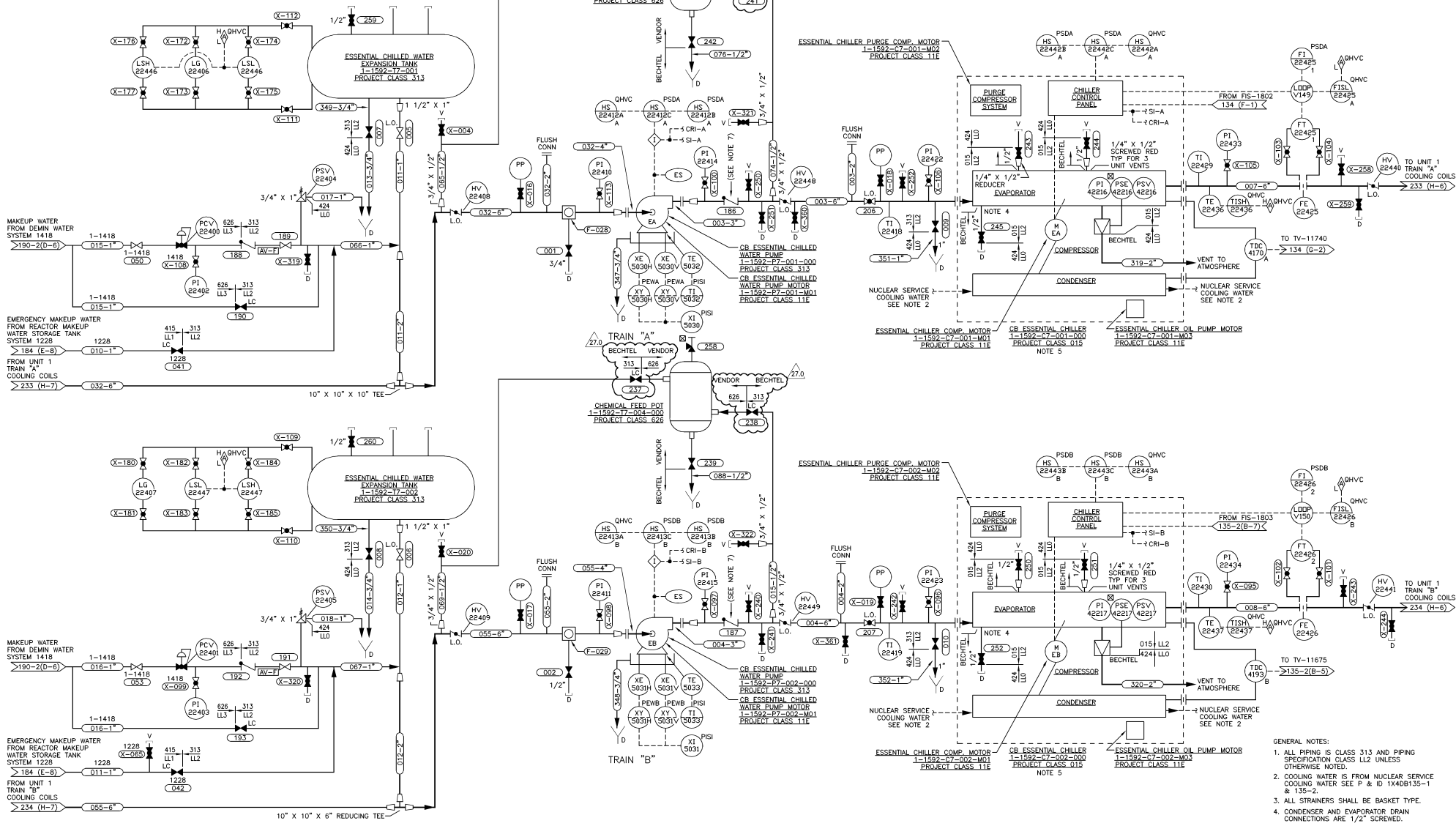
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	9.0	REVISED PER ABN-V00292, VER. 1.0	10-05-06	DFV	WMW	WLN	
	NO.	VERSIONS	DATE	DR	CHK	APPV	D

SCALE: NONE	DRAWING NO.	VER.
	1X4DB214-1	9.0
JOB NO. 10604		
DATE: 04-08-00	BY: DFV	CHK: WKM
APPV: WLN		

DRAWING CATEGORY: CRITICAL

DRAWING NO.		VER.
1X4DB217		18.0

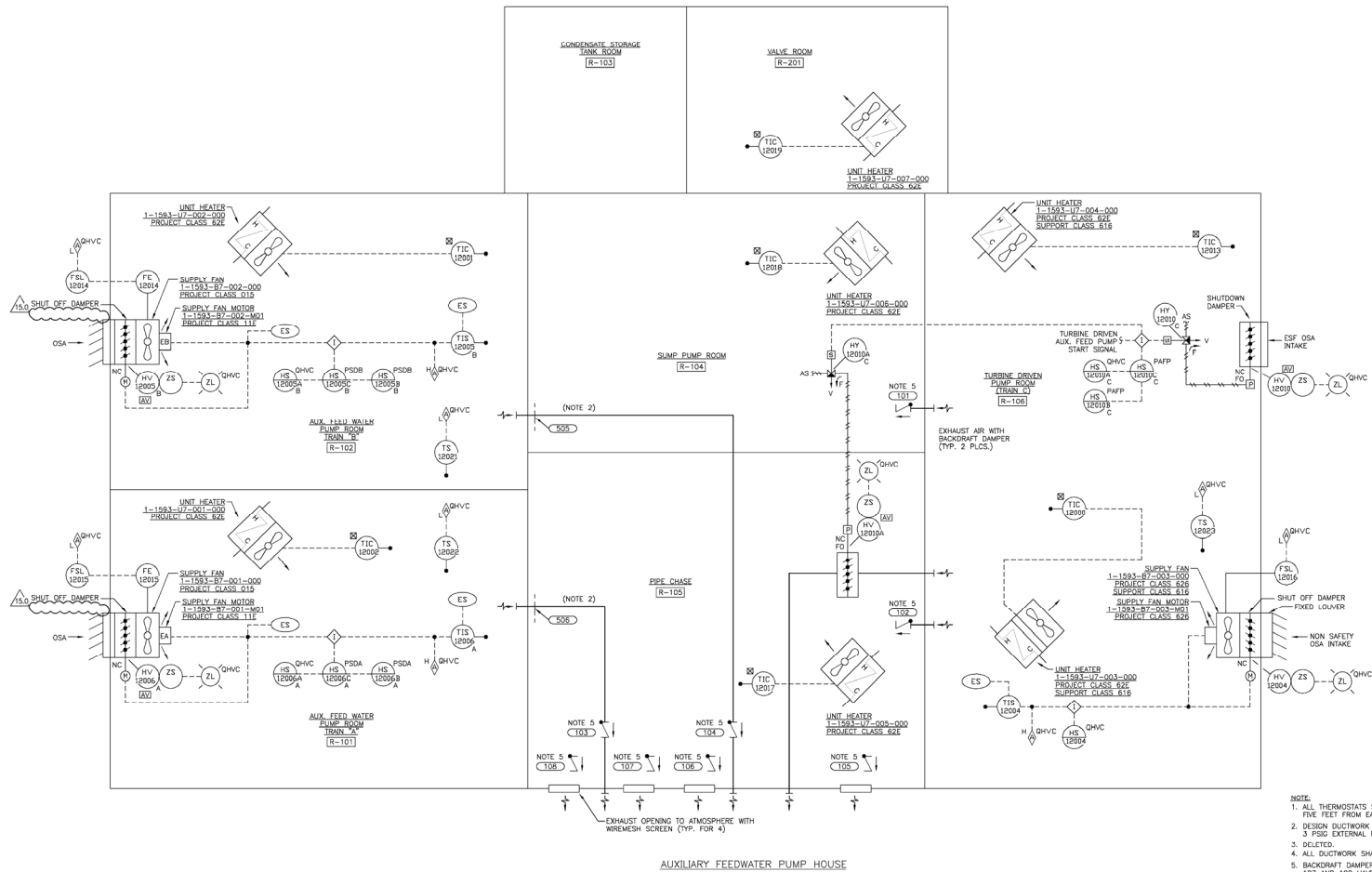
1 DRAWING CATEGORY:



- GENERAL NOTES:
1. ALL PIPING IS CLASS 313 AND PIPING SPECIFICATION CLASS LL2 UNLESS OTHERWISE NOTED.
 2. COOLING WATER IS FROM NUCLEAR SERVICE COOLING WATER SEE P & ID 1X4DB135-1 & 135-2.
 3. ALL STRAINERS SHALL BE BASKET TYPE.
 4. CONDENSER AND EVAPORATOR DRAIN CONNECTIONS ARE 1/2" SCREWED.
 5. REFER TO VENDOR DRAWING AX4404-104 FOR DETAILS OF SKID-MOUNTED PIPING, VALVES, AND INSTRUMENTATION.
 6. REFER TO ED-85-008 FOR EQUIVALENT REPLACEMENT PART INFORMATION FOR 1592-F7-002-M01 BALL BEARING.
 7. CHECK VALVES 11592U4186 & 187 INTERNAL PARTS REMOVED PER DCP 90-VIN0067-0-1.

SOUTHERN COMPANY
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT
P & I DIAGRAM
SAFETY RELATED (ESSENTIAL) CHILLERS
UNIT 1 TRAINS A & B
SYSTEM NO. 1592

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SOUTHERN COMPANY
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

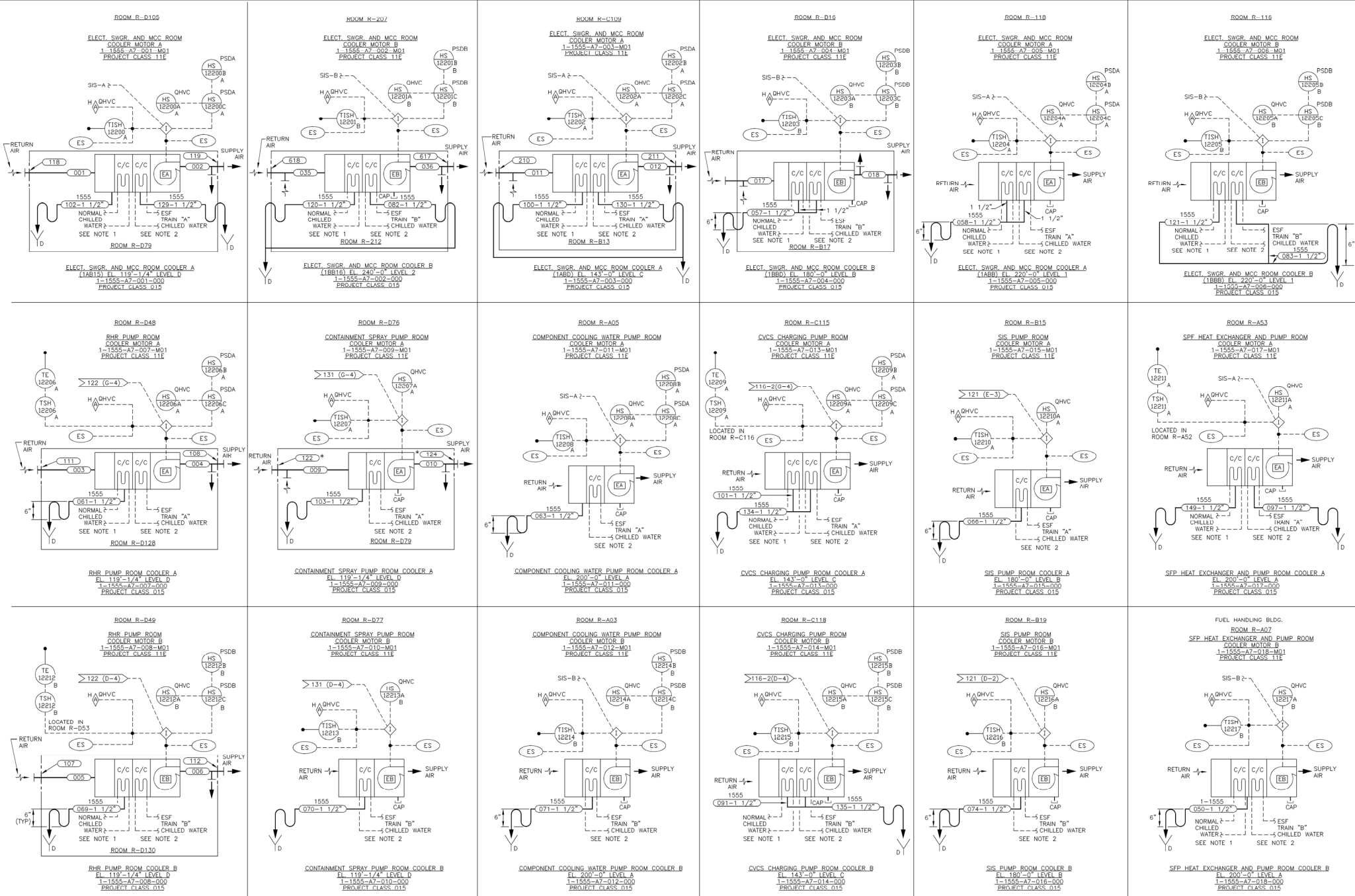
P & I DIAGRAM
AUXILIARY FEEDWATER PUMP HOUSE
HEATING AND VENTILATING
SYSTEM NO. 1593

SCALE: NONE
DRAWING NO.
1X4DB227
VER.

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CAD 1X4DB227
ACAD2002 Bgt - 03
15.0 REVISED PER ABR-V00466, VER.1.0
1-18-07 Bgt MWD WLN
DATE LUN / CHK / APPV / UTL
SIZE E 34844

1 DRAWING CATEGORY: CRITICAL



- NOTES:
1. SEE P & ID'S AX40B231 & 232.
 2. SEE P & ID'S AX40B233 & 234.
 3. ALL DUCT IS 015.
 4. ALL DRAIN LINES TO BE PROJECT CLASS 026. PIPING CLASS 010.
 5. * DERATED FIRE DAMPER.

SOUTHERN COMPANY

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

P & ID DIAGRAM
ENGINEERED SAFETY FEATURE
ROOM COOLERS
SYSTEM 1555

(CAD) 1X4DB228

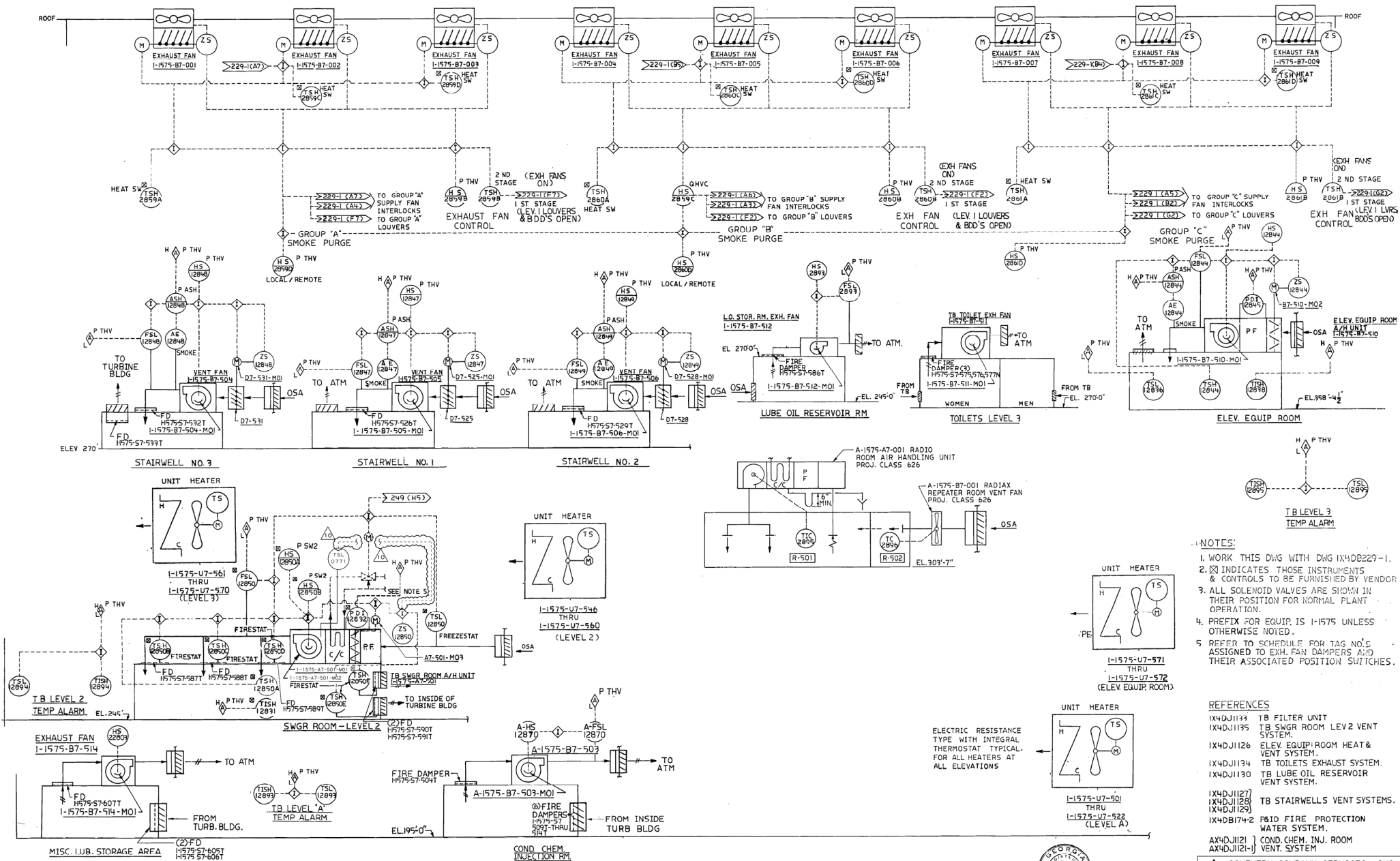
ACAD2007 LPM = 07

SCALE: NONE

DRAWING NO. 1X4DB228

VER. 13.0

SCHEDULE - FAN, DAMPER, DAMPER MOTOR, AND DAMPER POSITION SWITCH											
FAN NO.	DMPR NO.	DMPR MTR POS. SW.	FAN NO.	DMPR NO.	DMPR MTR POS. SW.	FAN NO.	DMPR NO.	DMPR MTR POS. SW.	FAN NO.	DMPR NO.	DMPR MTR POS. SW.
1-1575-B7-001	D7-530	MO	1-1575-B7-004	D7-530	MO	1-1575-B7-007	D7-530	MO	1-1575-B7-010	D7-530	MO
1-1575-B7-002	D7-531	MO	1-1575-B7-005	D7-531	MO	1-1575-B7-008	D7-531	MO	1-1575-B7-011	D7-531	MO
1-1575-B7-003	D7-532	MO	1-1575-B7-006	D7-532	MO	1-1575-B7-009	D7-532	MO	1-1575-B7-012	D7-532	MO
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- NOTES:
1. WORK THIS DWG WITH DWG I-1575-B7-001.
 2. [Symbol] INDICATES THOSE INSTRUMENTS & CONTROLS TO BE FURNISHED BY VENDOR.
 3. ALL SOLENOID VALVES ARE SHOWN IN THEIR POSITION FOR NORMAL PLANT OPERATION.
 4. PREFIX FOR EQUIP. IS I-1575 UNLESS OTHERWISE NOTED.
 5. REFER TO SCHEDULE FOR TAG NO'S ASSIGNED TO EXH. FAN DAMPERS AND THEIR ASSOCIATED POSITION SWITCHES.

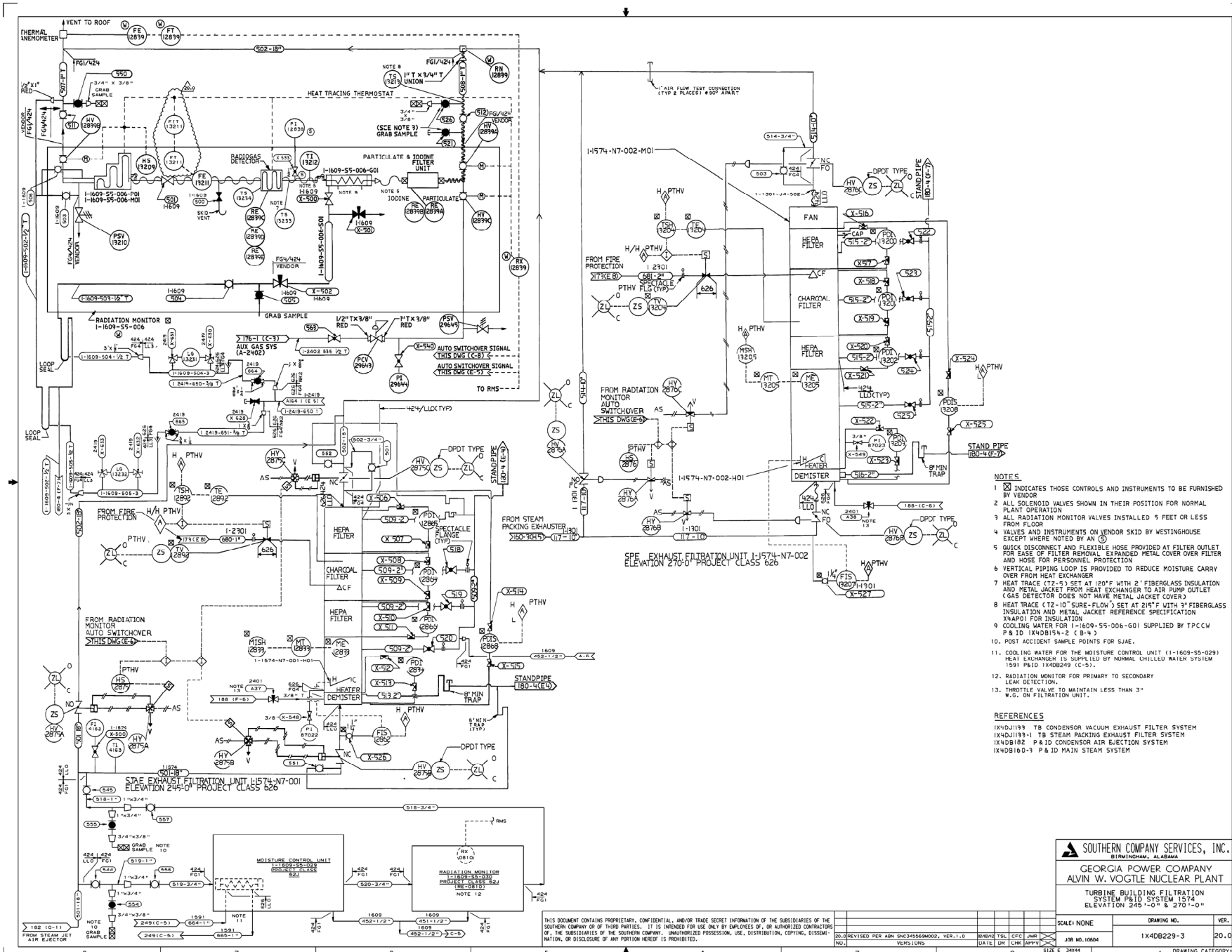
- REFERENCES
- I-1575-B7-001 TB FILTER UNIT
 - I-1575-B7-002 TB SWGR ROOM LEV 2 VENT SYSTEM
 - I-1575-B7-003 ELEV. EQUIP. ROOM HEAT & VENT SYSTEM
 - I-1575-B7-004 TB TOILETS EXHAUST SYSTEM
 - I-1575-B7-005 TB LUBE OIL RESERVOIR VENT SYSTEM
 - I-1575-B7-006 TB STAIRWELLS VENT SYSTEMS
 - I-1575-B7-007 R&D FIRE PROTECTION WATER SYSTEM
 - I-1575-B7-008 COND. CHEM. INJ. ROOM
 - I-1575-B7-009 VENT. SYSTEM



ALVIN W. VOGTLE NUCLEAR PLANT
P & I DIAGRAM TURB. BLDG. HVAC
SYSTEM 1575, LEVELS A,
195'-0", 2, 245'-0", 3, 270'-0" & ROOF, 295'-0"

NO.	REVISIONS	DATE	DR	CHK	APPV	DTL
1	ISSUED FOR CONSTRUCTION					
2						
3						
4						
5						

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- NOTES
- 1. [Symbol] INDICATES THOSE CONTROLS AND INSTRUMENTS TO BE FURNISHED BY VENDOR
 - 2. ALL SOLENOID VALVES SHOWN IN THEIR POSITION FOR NORMAL PLANT OPERATION
 - 3. ALL RADIATION MONITOR VALVES INSTALLED 5 FEET OR LESS FROM FLOOR
 - 4. VALVES AND INSTRUMENTS ON VENDOR SKID BY WESTINGHOUSE EXCEPT WHERE NOTED BY AN (S)
 - 5. QUICK DISCONNECT AND FLEXIBLE HOSE PROVIDED AT FILTER OUTLET FOR EASE OF FILTER REMOVAL EXPANDED METAL COVER OVER FILTER AND HOSE FOR PERSONNEL PROTECTION
 - 6. VERTICAL PIPING LOOP IS PROVIDED TO REDUCE MOISTURE CARRY OVER FROM HEAT EXCHANGER
 - 7. HEAT TRACE (12-1) SET AT 120°F WITH 2" FIBERGLASS INSULATION AND METAL JACKET FROM HEAT EXCHANGER TO AIR PUMP OUTLET (GAS DETECTOR DOES NOT HAVE METAL JACKET COVER)
 - 8. HEAT TRACE (12-10) SURE-FLOW SET AT 215°F WITH 2" FIBERGLASS INSULATION AND METAL JACKET REFERENCE SPECIFICATION X4A01 FOR INSULATION
 - 9. COOLING WATER FOR I-1609-55-006-G01 SUPPLIED BY TPCCW P&ID I-1609-55-006-G01
 - 10. POST ACCIDENT SAMPLE POINTS FOR SJA-E
 - 11. COOLING WATER FOR THE MOISTURE CONTROL UNIT (I-1609-55-029) HEAT EXCHANGER IS SUPPLIED BY NORMAL CHILLED WATER SYSTEM 1591 P&ID I-1609-55-029 (C-5)
 - 12. RADIATION MONITOR FOR PRIMARY TO SECONDARY LEAK DETECTION
 - 13. THROTTLE VALVE TO MAINTAIN LESS THAN 3" W.G. ON FILTRATION UNIT
- REFERENCES
- I-1609-55-006-TB CONDENSOR VACUUM EXHAUST FILTER SYSTEM
 - I-1609-55-006-TB STEAM PACKING EXHAUST FILTER SYSTEM
 - I-1609-55-006-TB P&ID CONDENSOR AIR EJECTION SYSTEM
 - I-1609-55-006-TB P&ID MAIN STEAM SYSTEM

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

TURBINE BUILDING FILTRATION SYSTEM P&ID SYSTEM 1574 ELEVATION 245'-0" & 270'-0"

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20-REVISED PER AIN 354856002, VER.1.0																80/10		TSTL		CFC		LAW		JAN		20.0	
REVISED LOG																DATE		BY		JOB NO.10664		1x4DB229-3					
5																3		4		SIZE E 3444		1		DRAWING CATEGORY: 1			

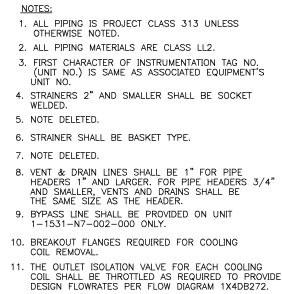


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SCALE: NONE	DRAWING NO.	VE
JOB NO. 10604	1X4DB233	26

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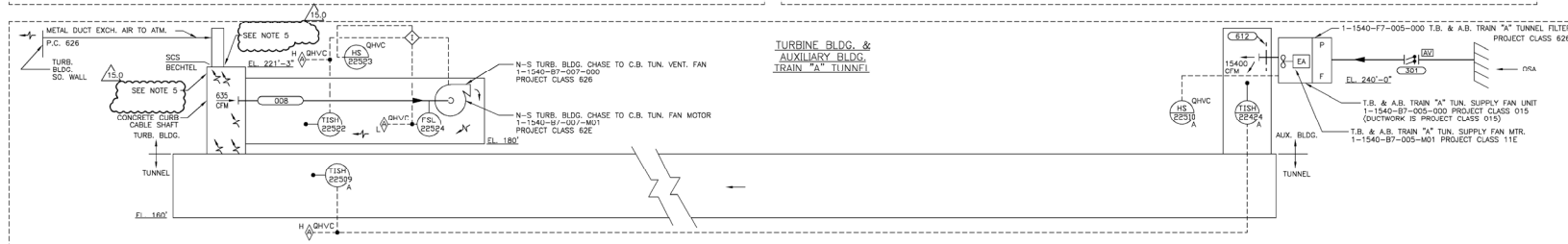
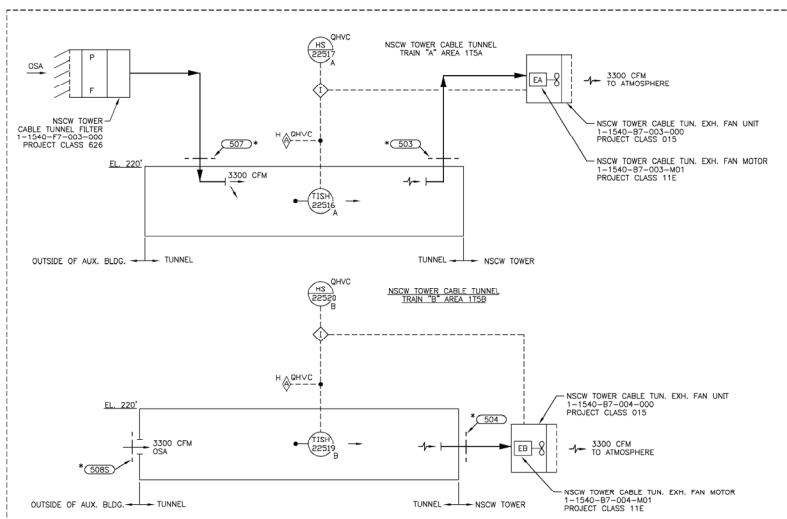
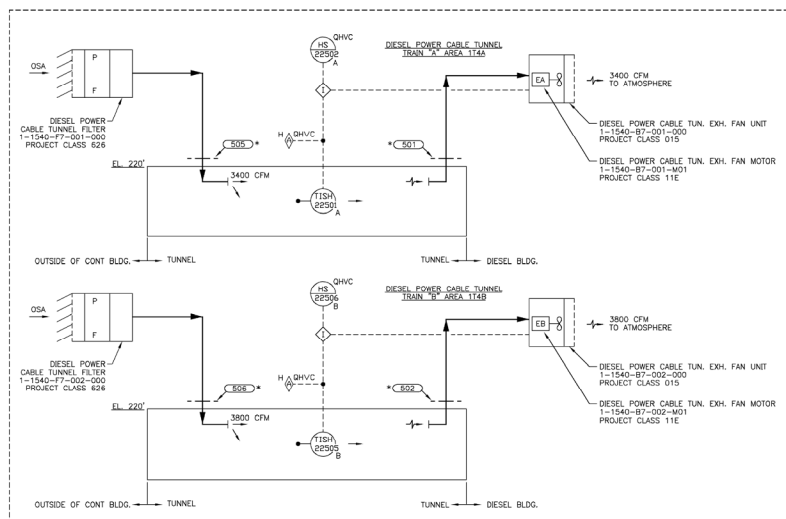
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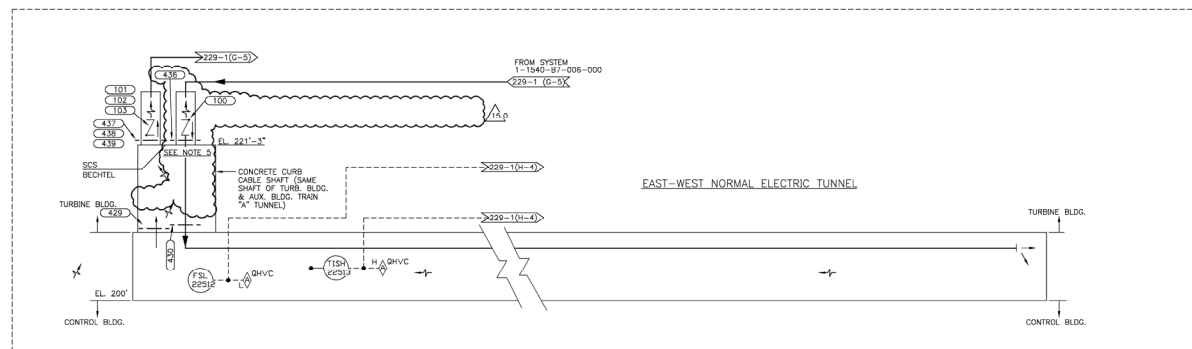
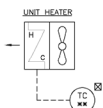
CAD 1X4DB234	
ACAD2002	CYN - 01

 SOUTHERN COMPANY	
GEORGIA POWER COMPANY ALVIN W. VOGTLE NUCLEAR PLANT	
P & I DIAGRAM ESSENTIAL CHILLED WATER COOLING COILS UNIT 1, TRAIN B SYSTEM NO. 1592	

SCALE: NONE	DRAWING NO.	VER.
JOB NO.10604	1X4DB234	25.0
E 34X44	1	DRAWING CATEGORY:



UNIT HEATERS	TEMP. CONTROL **	LOCATION
1-1540-U7-009	TC-22716	NSCW R-102
1-1540-U7-010	TC-22717	NSCW R-102
1-1540-U7-011	TC-22718	NSCW R-102
1-1540-U7-012	TC-22719	NSCW R-202
1-1540-U7-013	TC-22720	NSCW R-202
1-1540-U7-014	TC-22721	NSCW R-202
1-1540-U7-015	TC-22722	NSCW R-101
1-1540-U7-016	TC-22723	NSCW R-101
1-1540-U7-017	TC-22724	TUNNEL 1728
1-1540-U7-018	TC-22725	TUNNEL 1728
1-1540-U7-019	TC-22726	TUNNEL 1728
1-1540-U7-020	TC-22727	TUNNEL 1728
1-1540-U7-021	TC-22728	TUNNEL 1728
1-1540-U7-022	TC-22729	TUNNEL 1728
1-1540-U7-023	TC-22730	TUNNEL 1728
1-1540-U7-024	TC-22731	TUNNEL 1728
1-1540-U7-025	TC-22732	TUNNEL 1728
1-1540-U7-026	TC-22733	CST R-103



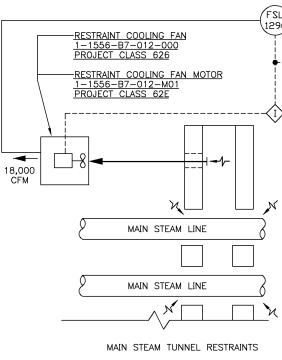
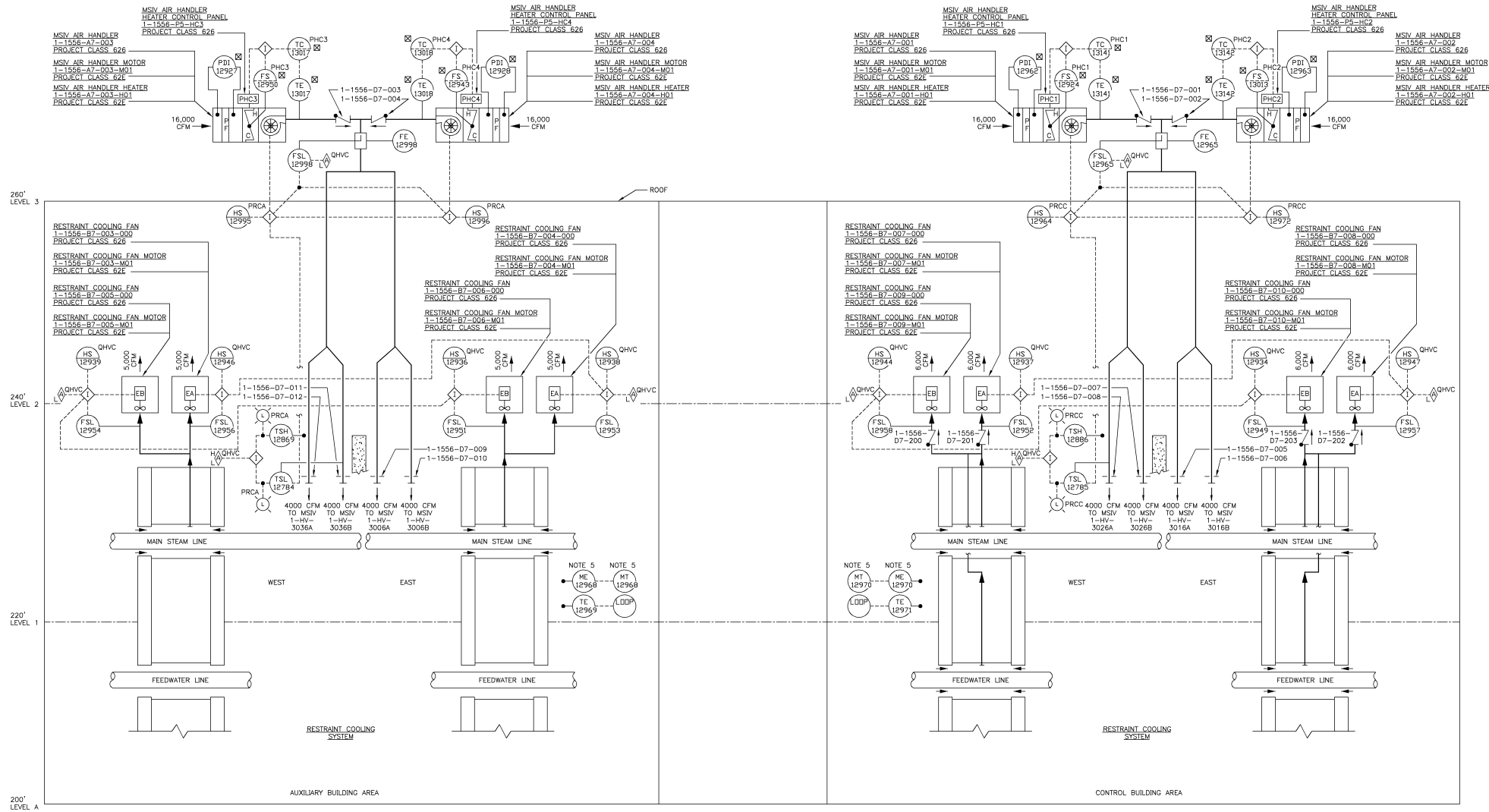
- NOTE:
1. DUCTWORK ASSOCIATED WITH CLASS 015 EQUIPMENT ARE CLASS 015; ALL OTHER DUCTWORK ARE CLASS 626.
 2. * DEARATED FIRE DAMPER.
 3. **TC (TEMPERATURE CONTROLLERS ARE UNIT MOUNTED THERMOSTATS).
 4. ALL UNIT HEATERS ARE CLASS 626.
 5. FOR OPENING DETAILS SEE ASSET 10000.

SOUTHERN COMPANY
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT
 P & I DIAGRAM
 ELECTRICAL TUNNEL VENTILATION SYSTEM
 SYSTEM NO. 1540

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15.0	REVISED PER ABR-V01431, VER. 1.0.	10.0	TJS	PWG	PMU	X
DATE	UN	CHK	APPV	DATE	UN	CHK
15.0	REVISED PER ABR-V01431, VER. 1.0.	10.0	TJS	PWG	PMU	X
DATE	UN	CHK	APPV	DATE	UN	CHK

SCALE:	NONE	DRAWING NO.	15.0
JOB NO.	150604	1X4DB238	15.0
SIZE	36X44	DRAWING CATEGORY:	CRITICAL



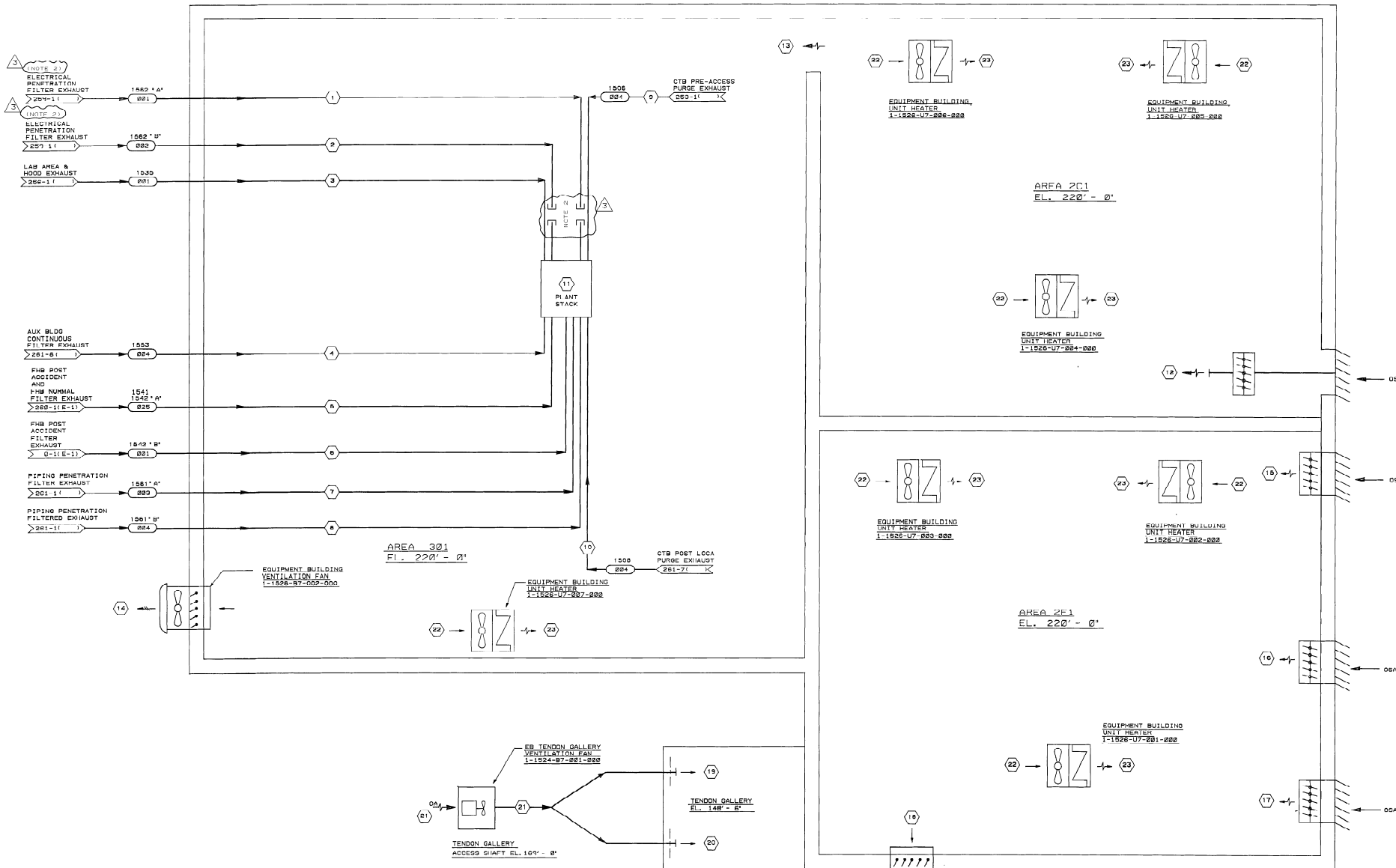
- NOTES:
1. ALL DUCT IS PROJECT CLASS 626 EXCEPT AS NOTED.
 2. [Symbol] FURNISHED WITH ASSOCIATED EQUIPMENT.
 3. TEMPERATURE SENSORS TSH12886 (CONTROL BUILDING) AND TSH12889 (AUXILIARY BUILDING) ARE "HIGH TEMP" SENSORS LOCATED IN THE VICINITY OF THE MSIV'S. THESE SENSORS ARE INTENDED TO NOTIFY THE CONTROL ROOM THAT THE TEMPERATURE NEAR THE MSIV ACTUATORS IS APPROACHING THE ENVIRONMENTAL QUALIFICATION UPPER LIMIT FOR NORMAL OPERATION.
 4. TEMPERATURE SENSORS TSL12785 (CONTROL BUILDING) AND TSL12784 (AUXILIARY BUILDING) ARE "LOW TEMP" SENSORS LOCATED IN THE AIR HANDLER DISCHARGE AIRSTREAM IN THE VICINITY OF THE MSIV'S. THESE SENSORS ARE INTENDED TO NOTIFY THE CONTROL ROOM THAT THE SUPPLY AIR TEMPERATURE IS APPROACHING THE VALVE ACTUATOR LOW OPERATING TEMPERATURE LIMIT.
 5. 1MT-12868, 1ME-12868, 1MT-12870, & 1ME-12870 HAVE BEEN "ABANDONED IN PLACE".

SOUTHERN COMPANY

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

P & I DIAGRAM
PIPING PENETRATION
VENTILATION SYSTEM
SYSTEM NO. 1556

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NO.		VERSIONS		SIZE E 34X44		JOB NO. 10604		DRAWING CATEGORY: CRITICAL



NOTES:
 1. THE DATA SHOWN ON THIS FLOW DIAGRAM ARE FOR DESIGN PURPOSES ONLY, AND WHILE USEFUL AS GUIDES IN OPERATION, DO NOT REPRESENT EXACT OR GUARANTEED CONDITIONS.
 2. THE CR ELECTRICAL PENETRATION FILTER AND EXHAUST SYSTEM NO. 1562 IS RETIRED-IN-PLACE.

MODE	PARAMETER	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)
NORMAL	POWER GENERATION	FLOW	CFM	11420	85400	30000	—	—	—	—	—	144670	8700	8700	12,250	450	450	450	1300	2000	2500	5000	500	500
		TEMPERATURE	°F	120	124	124	—	—	—	—	—	120	98	110	120	98	98	98	120	98	98	50	50	50
		PRESSURE	INCH OF WATER	0.75	0.75	0.75	—	—	—	—	—	0.75	0.5	—	—	—	—	—	-0.5	0.25	0.25	—	—	—
	REFUELING	FLOW	CFM	11200	85400	30000	—	—	—	—	—	104470	8700	8700	12,250	450	450	450	1300	2000	2500	5000	500	500
POST LOCA	WITH OFFSITE POWER	TEMPERATURE	°F	104	104	98	—	—	—	—	—	120	98	110	120	98	98	98	120	98	98	50	50	50
		PRESSURE	INCH OF WATER	0.75	0.75	0.75	—	—	—	—	—	0.75	0.5	—	—	—	—	—	-0.5	0.25	0.25	—	—	—
		FLOW	CFM	11200	85400	30000	—	—	—	—	—	104470	8700	8700	12,250	450	450	450	1300	2000	2500	5000	500	500
	WITHOUT OFFSITE POWER	TEMPERATURE	°F	104	104	104	—	—	—	—	—	120	98	110	120	98	98	98	120	98	98	50	50	50
		PRESSURE	INCH OF WATER	0.75	0.75	0.75	—	—	—	—	—	0.75	0.5	—	—	—	—	—	-0.5	0.25	0.25	—	—	—
		FLOW	CFM	104	104	100	—	—	—	—	—	120	98	110	120	98	98	98	120	98	98	50	50	50
		TEMPERATURE	°F	104	104	100	—	—	—	—	—	120	98	110	120	98	98	98	120	98	98	50	50	50
		PRESSURE	INCH OF WATER	0.75	0.75	0.75	—	—	—	—	—	0.75	0.5	—	—	—	—	—	-0.5	0.25	0.25	—	—	—

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NO.	REVISIONS	DATE	DR	CHK	APPV	DTL
1	INCORPORATED PER DCP 15-VIN0003 ISSUED FOR CONSTRUCTION					

SOUTHERN COMPANY SERVICES, INC.
 BIRMINGHAM, ALABAMA

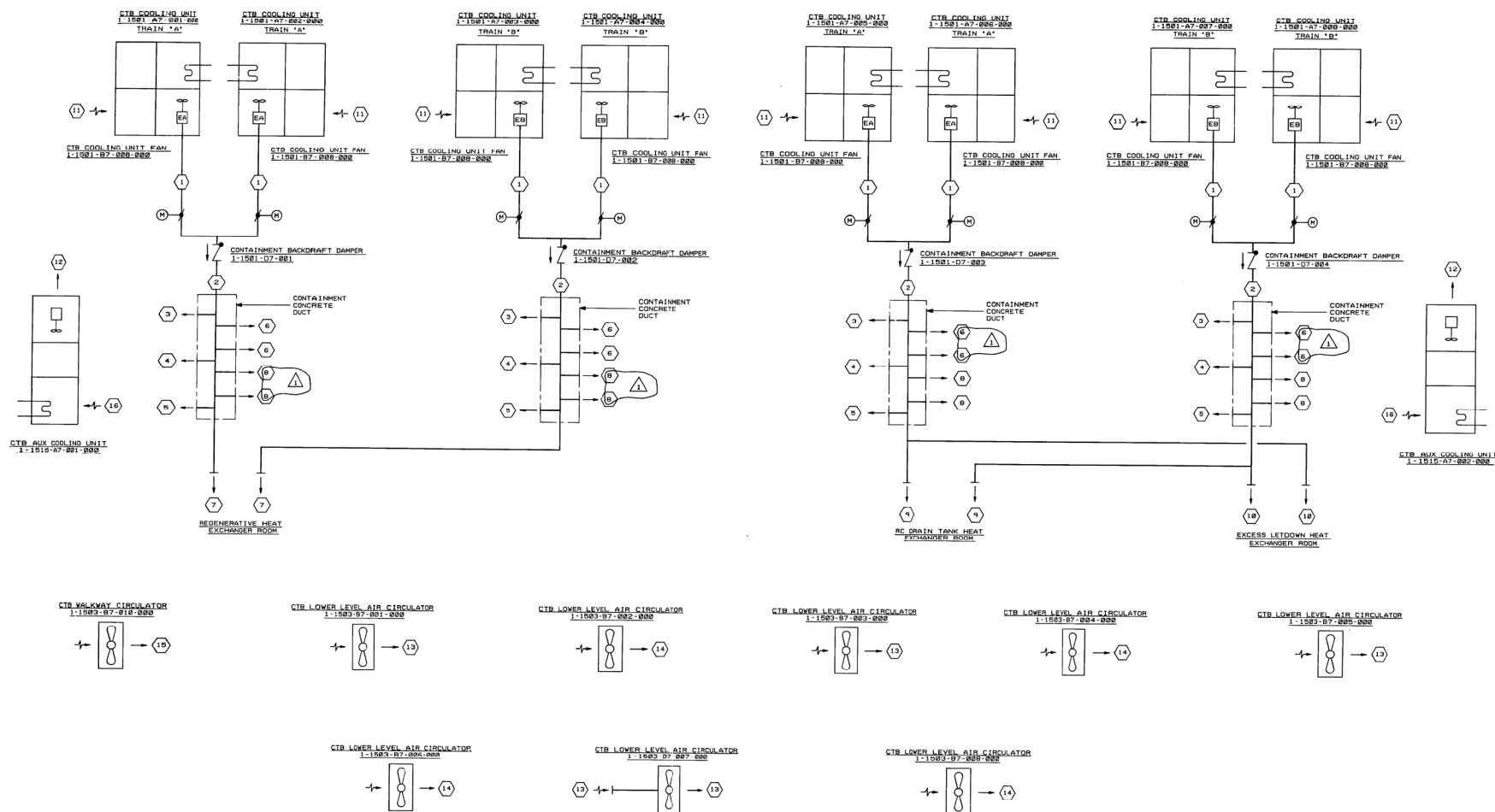
GEORGIA POWER COMPANY
 ALVIN W. VOGTLE NUCLEAR PLANT

P & I DIAGRAM
 EQUIPMENT BUILDING HVAC SYSTEM
 SYSTEM NO. 1526 & 1524

SCALE: NONE
 DRAWING NO. 1X4DB250-1
 REV. 3

JOB NO. 10604
 CAP. NAME 14082550

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MODE	PARAMETER	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
POWER GENERATION LOSS OF OFFSITE POWER	FLOW	CFM	N/A	118000	(9)	(9)	(9)	(9)	(9)	(9)	(9)	N/A	183000	18300	14200	14200	183000
	TEMPERATURE	°F	98	98	98	98	98	98	98	98	98	128	98	128	128	128	98
LOCA	PRESSURE (1)	IN. OF WATER	N/A	52000(8)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	N/A	128	128	128	128	128
	FLOW	CFM	N/A	52000(8)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	N/A	128	128	128	128	128
MSLB	TEMPERATURE	°F	(12)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	PRESSURE	PSIA	(13)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
RECIRCULATION	FLOW	CFM	N/A	52000(8)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	N/A	128	128	128	128	128
	TEMPERATURE	°F	(14)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	PRESSURE	PSIA	(15)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
	FLOW	CFM	N/A	52000(8)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	N/A	128	128	128	128	128
	TEMPERATURE	°F	(16)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
	PRESSURE	PSIA	(17)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)

- (1) PRESSURES INDICATED ARE IN REFERENCE TO THE ATMOSPHERIC PRESSURE.
(2) CONTAINMENT TEMPERATURE MAY REACH 450°F FOR LOCA OPERATIONS.
(3) CONTAINMENT DESIGN PRESSURE IS 68 PSIA FOR LOCA CONDITION.
(4) CONTAINMENT TEMPERATURE MAY REACH 480°F ON MSLB ACCIDENT.
(5) CONTAINMENT PRESSURE MAY REACH 50 PSIA ON MSLB ACCIDENT.
(6) CONTAINMENT TEMPERATURE MAY REACH 250°F DURING RECIRCULATION MODE OF OPERATION.
(7) CONTAINMENT PRESSURE MAY REACH 30 PSIA DURING RECIRCULATION MODE OF OPERATION.
(8) 9.7°F EQUIVALENT FLOW IS 50000 CFM.
(9) REGISTERS SHALL BE FULL OPEN.

NOTES:

1. THE DATA SHOWN ON THIS FLOW DIAGRAM ARE FOR DESIGN PURPOSES ONLY AND WHILE USEFUL AS GUIDES IN OPERATION DO NOT REPRESENT EXACT OR GUARANTEED OPERATING CONDITIONS.
2. AIR QUANTITIES SHOWN ARE ROUNDED TO THE NEAREST 10.
3. THE FLOW VALUES GIVEN ARE MINIMUM, WITH A MAXIMUM OF 1.2X, EXCEPT SYS. 1001 WHICH HAS NO MAXIMUM LIMIT.

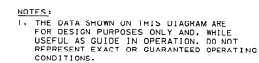
NO.	REVISIONS	DATE	DR.	CHK.	SUPV.	EGS	CHK.	P.E.	G.A.E.	NO.	REVISIONS	DATE	DR.	CHK.	SUPV.	EGS	CHK.	P.E.	G.A.E.	NO.
1											1									
2											2									
3											3									
4											4									
5											5									
6											6									
7											7									
8											8									


BECHTEL
LOS ANGELES

**GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT**

FLOW DIAGRAM
CONTAINMENT BUILDING
CONTAINMENT HEAT REMOVAL SYSTEM
SYSTEM NO. 1501

SCALE: NONE
DRAWING NO. 1X408251-1
JOB NO. 950
REV. 1



 BECHTEL LOS ANGELES		
GEORGIA POWER COMPANY ALVIN W. VOGTE NUCLEAR PLANT		
FLOW DIAGRAM CONTAINMENT CROM. CAVITY. & REACTOR SUPPORT COOLING SYSTEM SYSTEM NO. 1509 & 1511		
SCALE:	DRAWING NO.	REV.
JOB NO. 9510	1X40B252	1

- | | | |
|-------------|--------|------|
| | 36 | 37 |
| | NOTE 4 | NOTE |
| | 120 | 120 |
| CONT. BELOW | -2.25 | NOTE |
| | | |
| | | |
| | | |
| | | |
| | | |

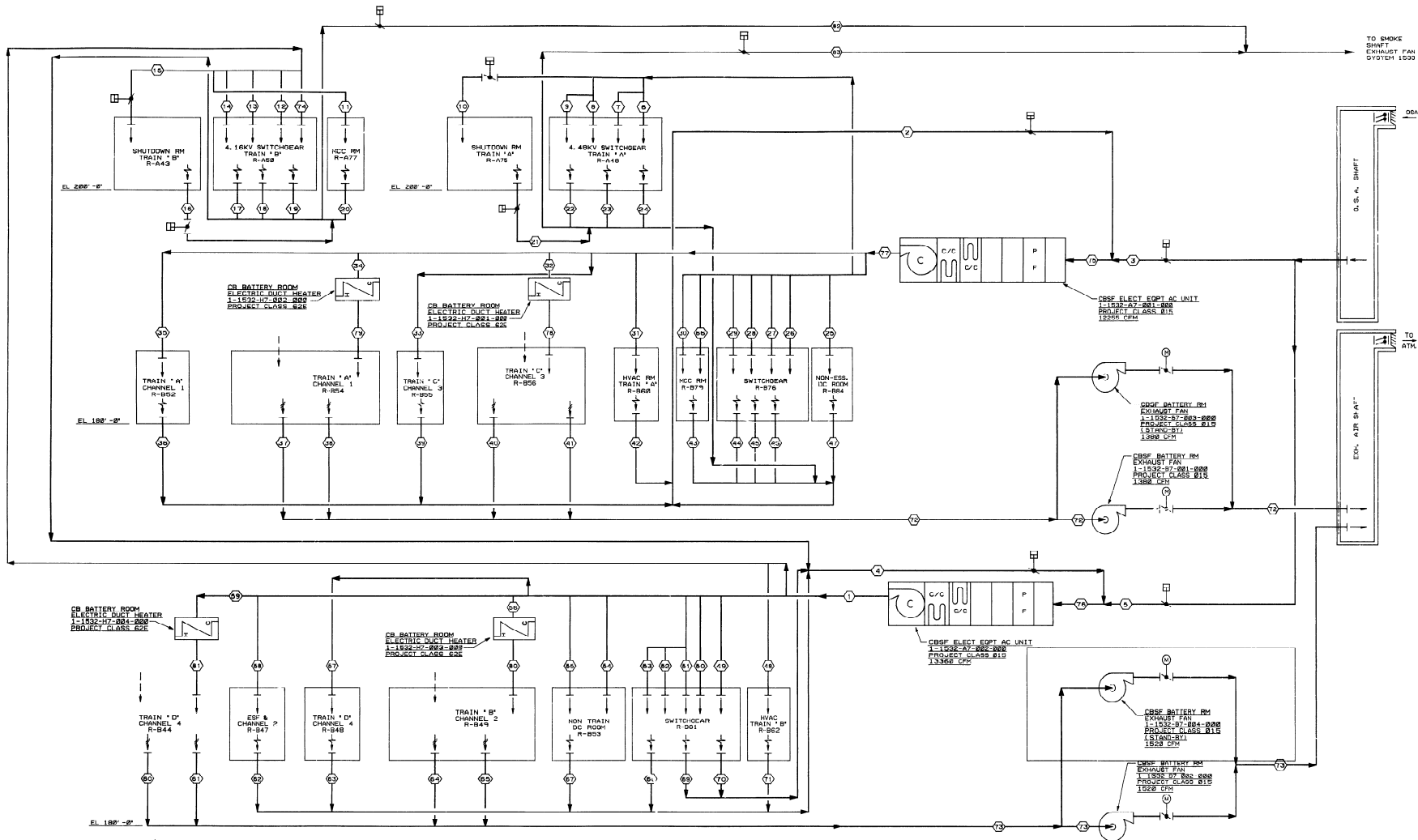
MODE	PARAMETER	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	
NORMAL OPERATION	FLOW	CFM	35000	30000				3700	3700	3700		3700	3700	-*											NOTE 4	NOTE 4		NOTE 4	NOTE 4		NOTE 4	NOTE 4		5 GCFH	5 GCFH	2-4	2-4
	TEMP	°F						125	127		125	127		125/17	99/60	101/63									120	120		120	120		120	125	120	120	120	120	
	PRESSURE	IN W.G.	-0.15	-0.50						-0.35	-1.5	+2.9				101/63	+0.9								-0.25	+0.15		-2.25	-2.25		-1.25	+0.45		5 GCFH	5 GCFH	2-4	2-4
POST LOCA OPERATION	FLOW	CFM			500	500	500																														
	TEMP	°F			150	150	150																														
	PRESSURE	IN W.G.			.55	.55	.47																														
								18000	18000			15000	15000		15000	4500	10000	4500	1500	1000	1500	4500	1500	10500	4500	15000		15000	15000		15000	15000		15000	15000		
REFUELING INSULATION	FLOW	CFM						98/17	98/60		102/64	102/64		102/64	102/64	102/64	102/64	102/64	102/60	102/60	102/60	102/60	102/60	120/60	120/60	120/60	120/60	120/60	120/60	120/60	120/60	120/60	120/60	130/70			
	TEMP	°F																																			
	PRESSURE	IN W.G.																																			

[illegible]


SOUTHERN COMPANY SERVICES, INC.
 BIRMINGHAM, ALABAMA
GEORGIA POWER COMPANY
ALVIN W. VOGTE NUCLEAR PLANT
 FLOW DIAGRAM
 CONTAINMENT AIR PURIFICATION
 & CLEANUP
 SYS NO. 1504, 1505, 1506, 1508, 1513, 1509

SCALE: NONE	DRAWING NO.	REV.
1X4DB253-1		8

SCALE: NONE	DRAWING NO.	REV.
1X4DB253-1		8

[illegible]

MODE	PARAMETER		52	53	2	3	4	5
SMOKE EXHAUST	FLOW	CFM	9980	8750	2	8750	2	9980

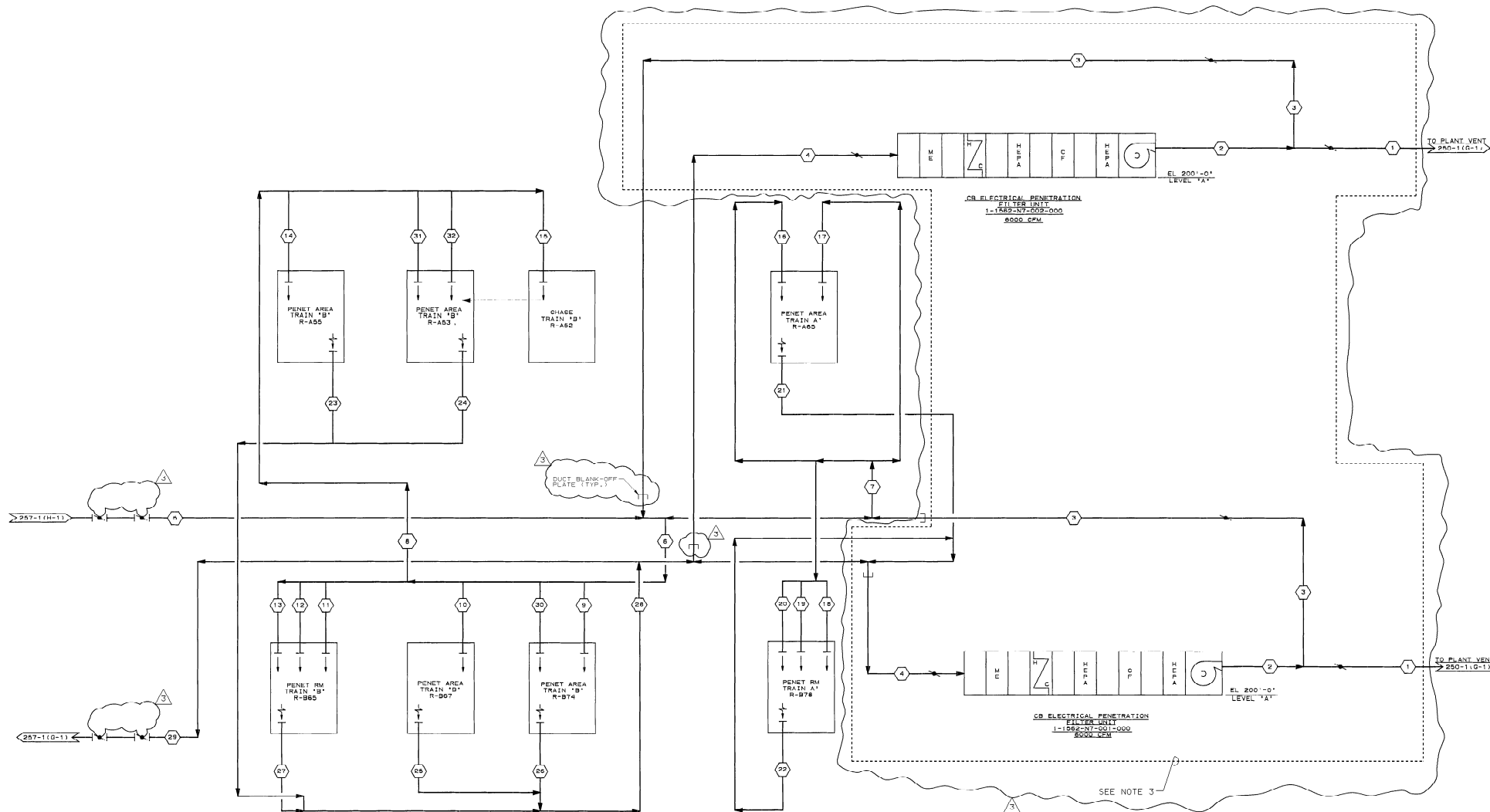
NOTES:

1. P & ID DWG 1X408207-1,
2. DELETED
3. AIR QUANTITIES FOR NODES 37, 38, 40, 41, 60.

RE
GEORGIA NO. 14183

[illegible]

SCALE: NONE	DRAWING NO.	RE
JOB NO. 9510	1X4DB268-1	6



MODE	PARAMETER	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	
NORMAL	FLOW	CFM	0	0	0	0	5305	2840	2485	1280	155	85	355	390	390	140	380	605	610	415	420	415	1100	1400	40	700	100	350	700	1850	4390	155	380	380
	TEMP	°F	---	---	---	---	57	57	57	57	59	59	59	59	59	59	59	59	59	59	59	59	63	76	66	69	64	93	82	NA	NA	---	---	
	PRESSURE	INCH OF WATER	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

NOTES:

1. DELETED
2. R & ID 1X40B209.
3. THE CB ELECTRICAL & PIPE PENETRATION ROOM FILTER & EXHAUST SYSTEM IS NOTED IN PLACE



SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

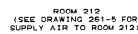
GEORGIA POWER COMPANY
ALVIN W. VOGLE NUCLEAR PLANT

FLOW DIAGRAM
CONTROL BUILDING ELECTRICAL & PIPE
PENETRATION ROOM FILTER & EXHAUST SYSTEM
SYSTEM NO. 1562

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NO.	REVISIONS	DATE	DR	CHK	APPV	DTL
1	INCORPORATED PER DCP 15-VI-0003 ISSUED FOR CONSTRUCTION					

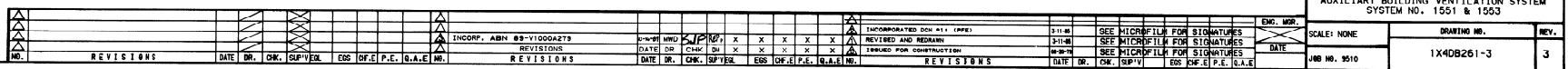
SCALE: NONE	DRAWING NO. 1X40B259-1	REV. 3
JOB NO. 10604		

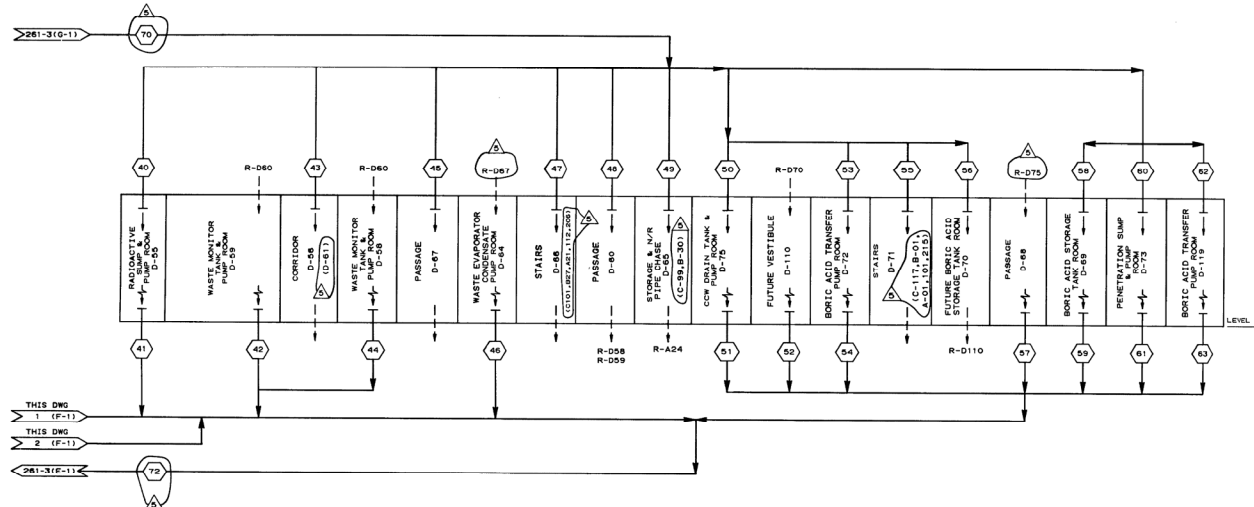
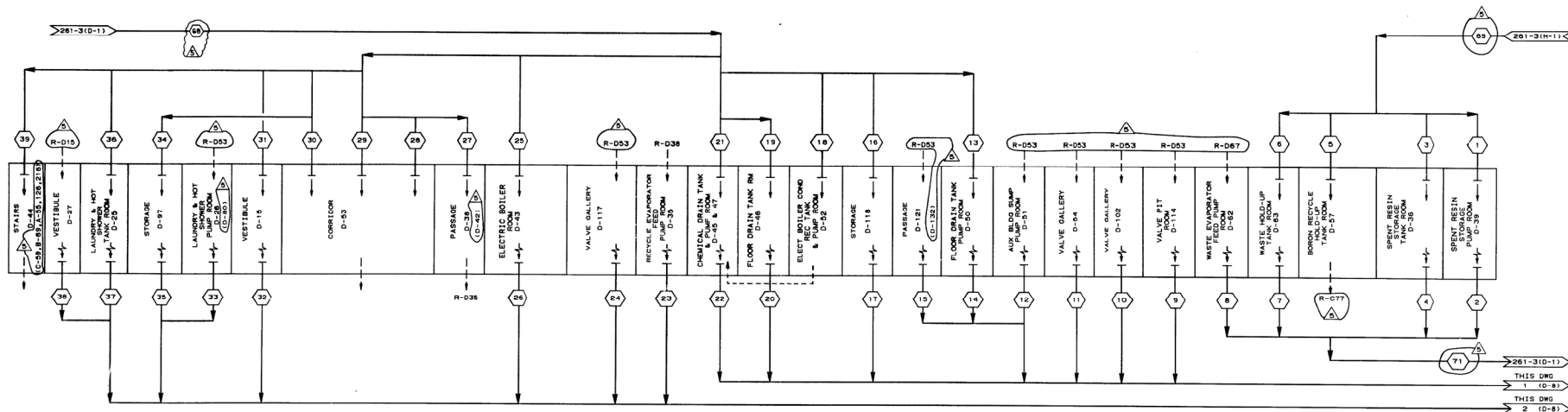


—NOTE 1

- | | |
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| | B |
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 <div style="text-align: center;"> BECHTEL LOS ANGELES </div>		
GEORGIA POWER COMPANY ALVIN W. VOGTLE NUCLEAR PLANT		
FLOW DIAGRAM AUXILIARY BUILDING OUTSIDE AIR SUPPLY AND NORMAL HVAC SYSTEM SYSTEM NO. 1551 & 1553		
SCALE: NONE	DRAWING NO	REV.
JOB NO. 9510	1X4DB261 1	7





MODE		PARAMETER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
NORMAL	FLOW	CFM	480	550	190	275	625	100	165	700	100	425	250	550	135	200	300	115	100	750	450	400	175	875	450	150	300	250	420	975	700	500	600	600	525	140	100	155	160	100	300	130
	TEMP	+F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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MODE		PARAMETER		41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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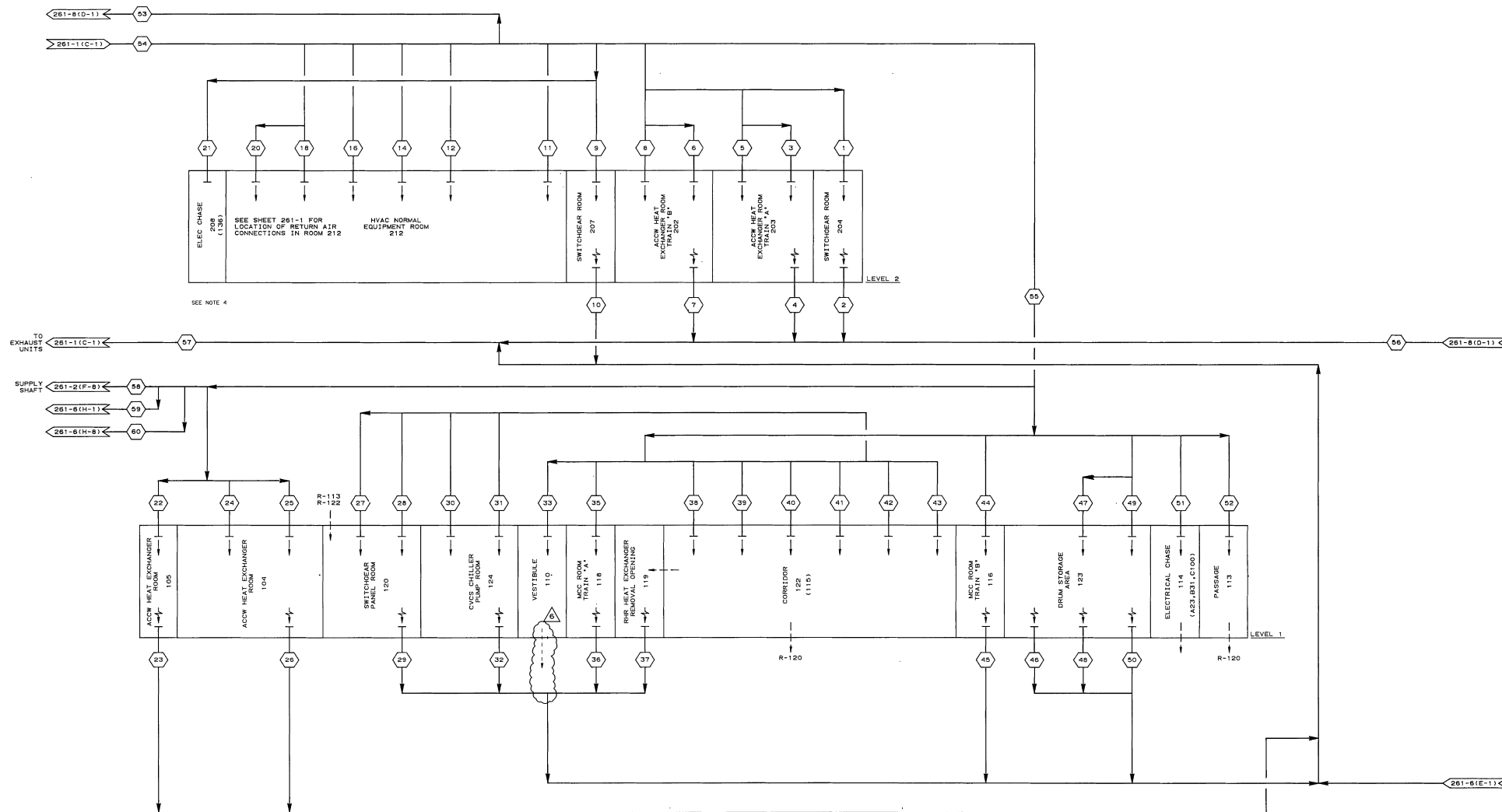
- NOTES:
1. REFERENCE NOTE 1 ON DRAWING 1X40B261-2.
 2. REFERENCE P & ID 1X40B208-2.
 3. DELETED
 4. ROOMS D15, D53, D56, D61 AND D67 HAVE DUCTS INTERCONNECTING AIR SPACES AND ARE CONSIDERED AS ONE AREA FOR DETERMINING AIR FLOW REQUIREMENTS.

CAD
MICROSTATION NPSV- 2

BECHTEL
LOS ANGELES
GEORGIA POWER COMPANY
ALVIN W. VOGLT NUCLEAR PLANT
FLOW DIAGRAM
AUXILIARY BUILDING VENTILATION SYSTEM
SYSTEM NO. 1551 & 1553

NO.	REVISIONS	DATE	DR.	CHK.	SUP'VEL.	ESS	OFF.	P.E.	Q.A.E.	NO.	REVISIONS	DATE	DR.	CHK.	SUP'VEL.	ESS	OFF.	P.E.	Q.A.E.	NO.	REVISIONS	DATE	DR.	CHK.	SUP'VEL.	ESS	OFF.	P.E.	Q.A.E.	NO.	REVISIONS	DATE	DR.	CHK.	SUP'VEL.	ESS	OFF.	P.E.	Q.A.E.	NO.

SCALE: NONE
DRAWING NO. 1X40B261-4
JOB NO. 9610
REV. 5



MODE		PARAMETER		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
NORMAL	FLOW	CFM		1450	1925	400	775	210	450	800	550	200	165	1500	1625	---	1400	---	1300	---	370	---	325	---	1250	900	575	550	1150	1000	925	3250	340	275	710	100	---	150	210	625	220	200	200
	TEMP	°F		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

SEE NOTE 4

MODE		PARAMETER		41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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- NOTES:
1. REFERENCE NOTE 1 ON DRAWING 1X4DB261-2.
 2. REFERENCE P & ID 1X4DB208-3.
 3. ROOMS 113, 115, AND 122 HAVE DIRECTLY INTERCONNECTING AIR SPACES AND ARE CONSIDERED AS ONE AREA FOR DETERMINING AIR FLOW REQUIREMENTS.
 4. SR BLANKED OFF BY MDC #34-VAM029

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTE NUCLEAR PLANT

FLOW DIAGRAM
AUXILIARY BUILDING VENTILATION SYSTEM NO. 1551 & 1553

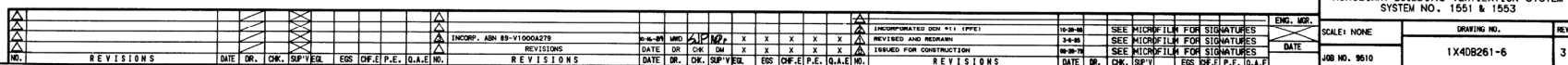
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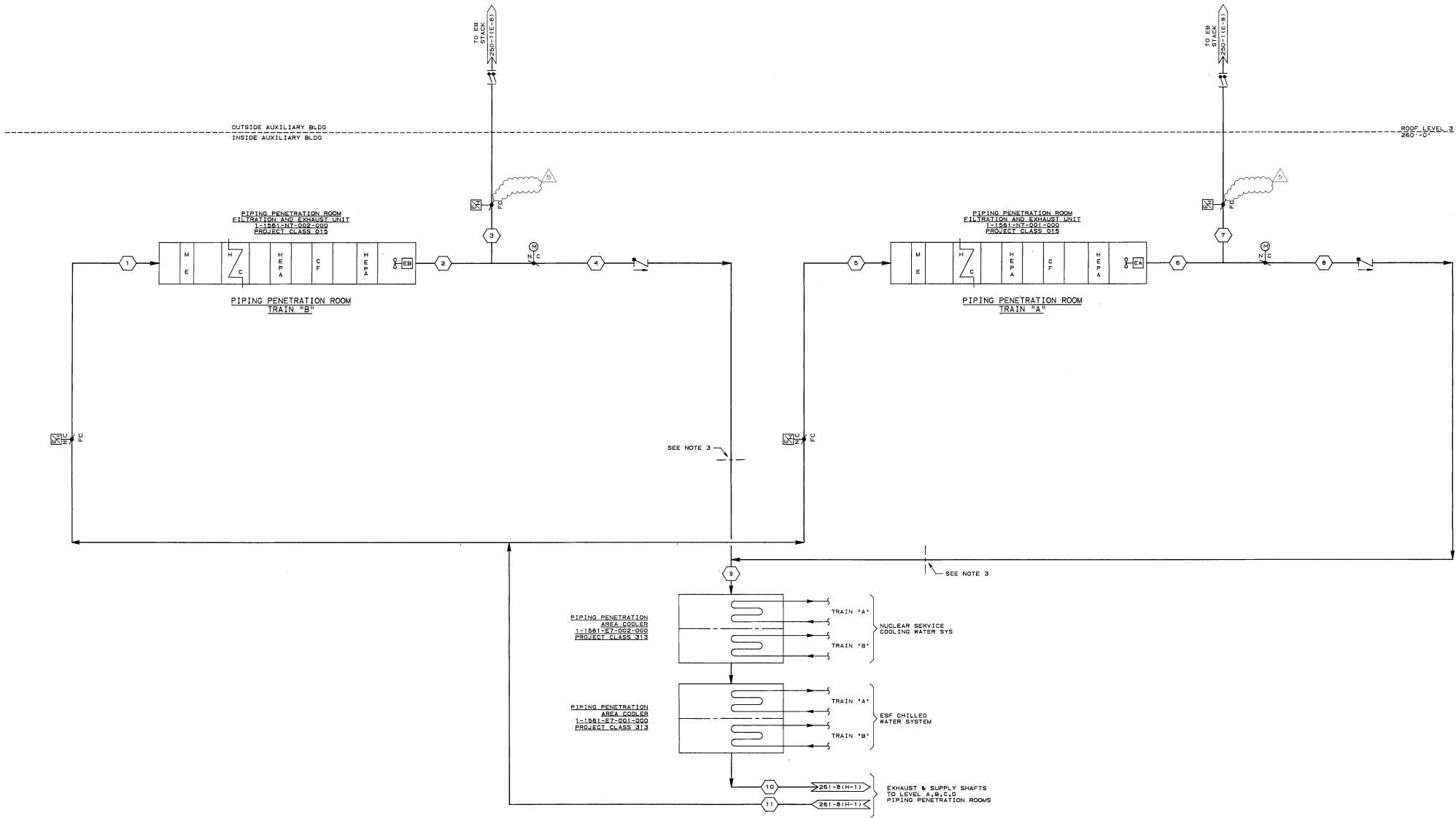
NO.	REVISIONS	DATE	DR	CHK	APPV	DTL
1	INCORPORATED PER DCP 94-V1ND061	5/23/98	CD	MWD	EGG	
2	ISSUED FOR CONSTRUCTION					

SCALE: NONE

DRAWING NO. 1X4DB261-5

REV. 6





MODE	PARAMETER	1	2	3	4	5	6	7	8	9	10	11
FLOW	CFM	1440	1440	2700	11760	1440	1440	2700	11760	11760	11760	1440
EMERGENCY (MINIMUM)	TEMP °F											

NOTES:

1. THE STACK FLOW MINIMUM DESIGN VALUE HAS BEEN ESTABLISHED AT 2700 CFM. A VALUE OF 3000 CFM ± 10% MAY BE APPLIED TO FACILITATE TESTING.

- REFERENCE P & ID 1X40B205-1.
- DAMPER SHALL BE USED FOR BLDG. PRESSURE BALANCE ONLY AND SHALL BE LOCKED IN POSITION WHEN PRESSURE BALANCE IS ATTAINED.
- REFER TO NOTES 3 AND 4 SHOWN ON DRAWING 1X40B261-9.



SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA


GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT


FLOW DIAGRAM
PIPING PENETRATION
FILTRATION AND EXHAUST SYSTEM
SYSTEM NO. 1561

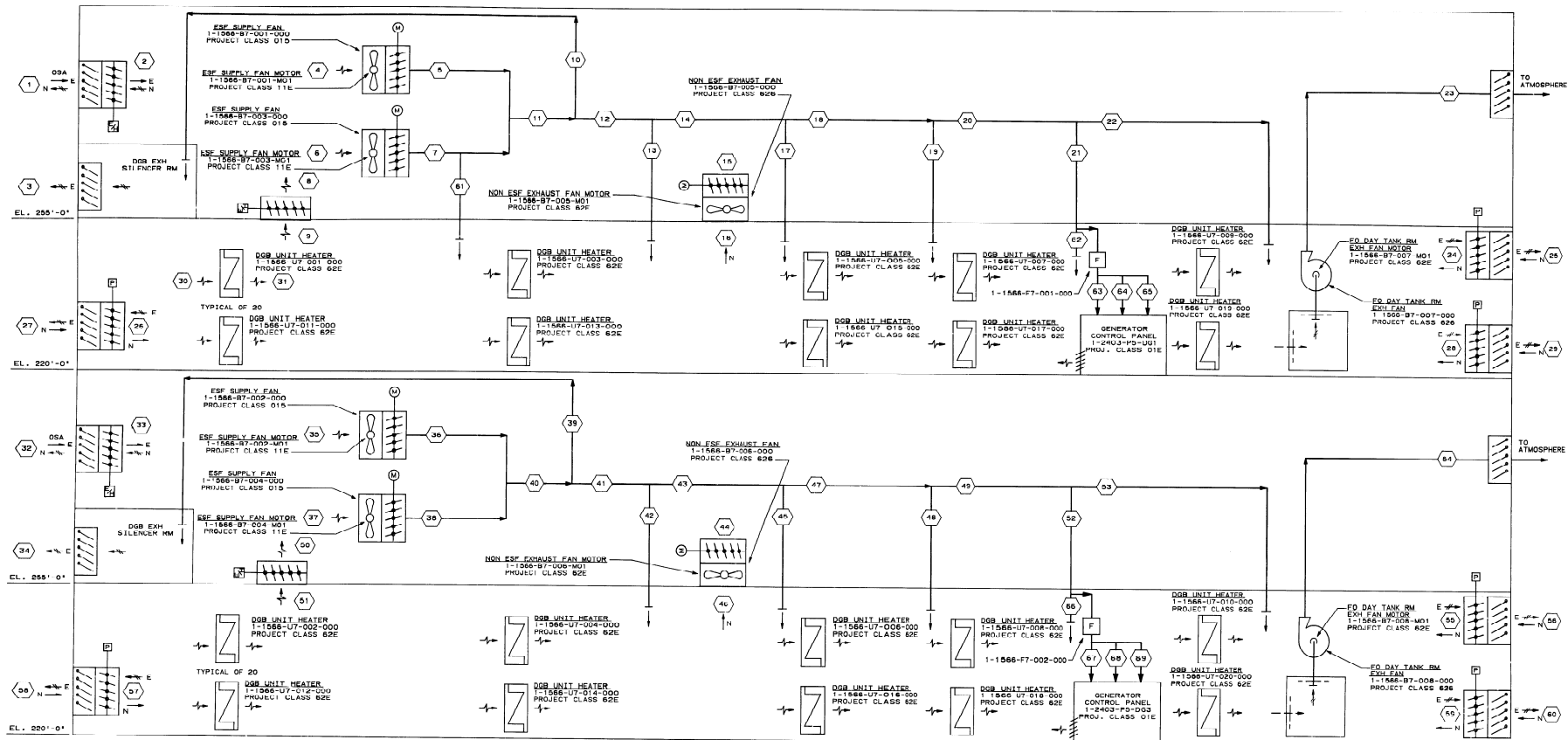
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NO.	REVISIONS	DATE	DR	CHK	APPV	DTL
1	INCORP. PER ABN-51809	11/12/00	ELC	CLB	MWD	X

SCALE: NONE	DRAWING NO.	REV.
JOB NO. 10604	1X40B261-7	5

 BECHTEL LOS ANGELES		
GEORGIA POWER COMPANY ALVIN W. VOGTLE NUCLEAR PLANT		
FLOW DIAGRAM PIPING PENETRATION AREA FILTRATION AND EXHAUST SYSTEM SYSTEM NO. 1061		
SCALE: NONE JOB NO. 9910	DRAWING NO. 1X4DB261-8	REV. 6

 SOUTHERN COMPANY SERVICES, INC. BIRMINGHAM, ALABAMA		
GEORGIA POWER COMPANY ALVIN W. VOGTLE NUCLEAR PLANT		
FLOW DIAGRAM PIPING PENETRATION AREA FILTRATION AND EXHAUST SYSTEM SYSTEM NO. 1501		
SCALE: NONE	DRAWING NO.	REV.
JOB NO. 10004	1X40B261-9	6




MODE	PARAMETER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
SUMMER NORMAL	FLOW	CFM	50,520	50,520	-	-	-	-	-	-	-	-	-	-	-	50,520	50,520	-	-	-	-	-	-	-	200	16,840	16,840	16,840	16,840	16,840	-	
	TEMP	°F	120	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	PRESSURE	INCH OF WTR	-	-	-	-	-	-	-	-	-	-	-	-	-	120	120	-	-	-	-	-	-	-	190	98	98	98	98	98	98	
SUMMER ESF 2 FAN	FLOW	CFM	150000	150000	7,500	78,000	78,000	78,000	75,000	-	7,500	100,000	97,500	30,000	67,500	-	-	-	-	-	-	30,000	37,500	22,000	15,500	1600	13900	500	47,300	47,300	47,300	
	TEMP	°F	98	98	120	98	98	98	98	-	-	98	98	98	98	-	-	-	-	-	98	98	98	98	120	120	120	120	120	120	-	
	PRESSURE	INCH OF WTR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WINTER NORMAL	FLOW	CFM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	TEMP	°F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1200	
	PRESSURE	INCH OF WTR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	
WINTER ESF 1 FAN	FLOW	CFM	85,000	85,000	5,700	97,500	97,500	97,500	32,000	32,000	6,700	88,000	87,300	30,000	52,300	-	-	-	-	-	17,800	34,800	20,300	14,800	1,400	13,400	500	19,800	19,800	19,800	19,800	1280
	TEMP	°F	17	17	190	28	28	28	28	50	50	28	28	28	28	28	-	-	-	28	28	28	28	28	28	50	50	50	50	50	50	
	PRESSURE	INCH OF WTR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MODE	PARAMETER	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	
SUMMER NORMAL	FLOW	CFM	-	50,520	50,520	-	-	-	-	-	-	-	-	-	-	50,520	50,520	-	-	-	-	-	-	-	-	500	16,840	16,840	16,840	16,840	16,840	-
	TEMP	°F	-	120	120	-	-	-	-	-	-	-	-	-	-	120	-	120	-	-	-	-	-	-	-	-	-	-	-	-	-	
	PRESSURE	INCH OF WTR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	120	98	98	98	98	98	98
SUMMER ESF 2 FAN	FLOW	CFM	-	150000	150000	8,000	78,000	78,000	78,000	75,000	8,000	100000	142,000	34,000	108,000	-	34,000	-	34,000	90,000	24,000	-	-	2,000	32,000	500	47,200	47,200	47,100	47,100	47,200	47,200
	TEMP	°F	-	98	98	120	98	98	98	98	98	98	98	98	98	-	98	-	98	98	98	-	-	98	98	120	120	120	120	120	120	120
	PRESSURE	INCH OF WTR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WINTER NORMAL	FLOW	CFM	1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	TEMP	°F	74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	PRESSURE	INCH OF WTR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WINTER ESF 1 FAN	FLOW	CFM	65,000	65,000	4000	97,500	97,500	97,500	97,500	4,000	97,500	53,500	17,000	78,500	-	24,000	-	55,500	35,000	17,800	32,000	32,000	1,800	16,900	500	20,300	20,300	20,400	20,400	20,300	20,300	
	TEMP	°F	17	17	120	28	28	28	28	28	28	28	28	28	28	-	20	-	20	20	20	20	20	20	20	50	50	50	50	50	50	50
	PRESSURE	INCH OF WTR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

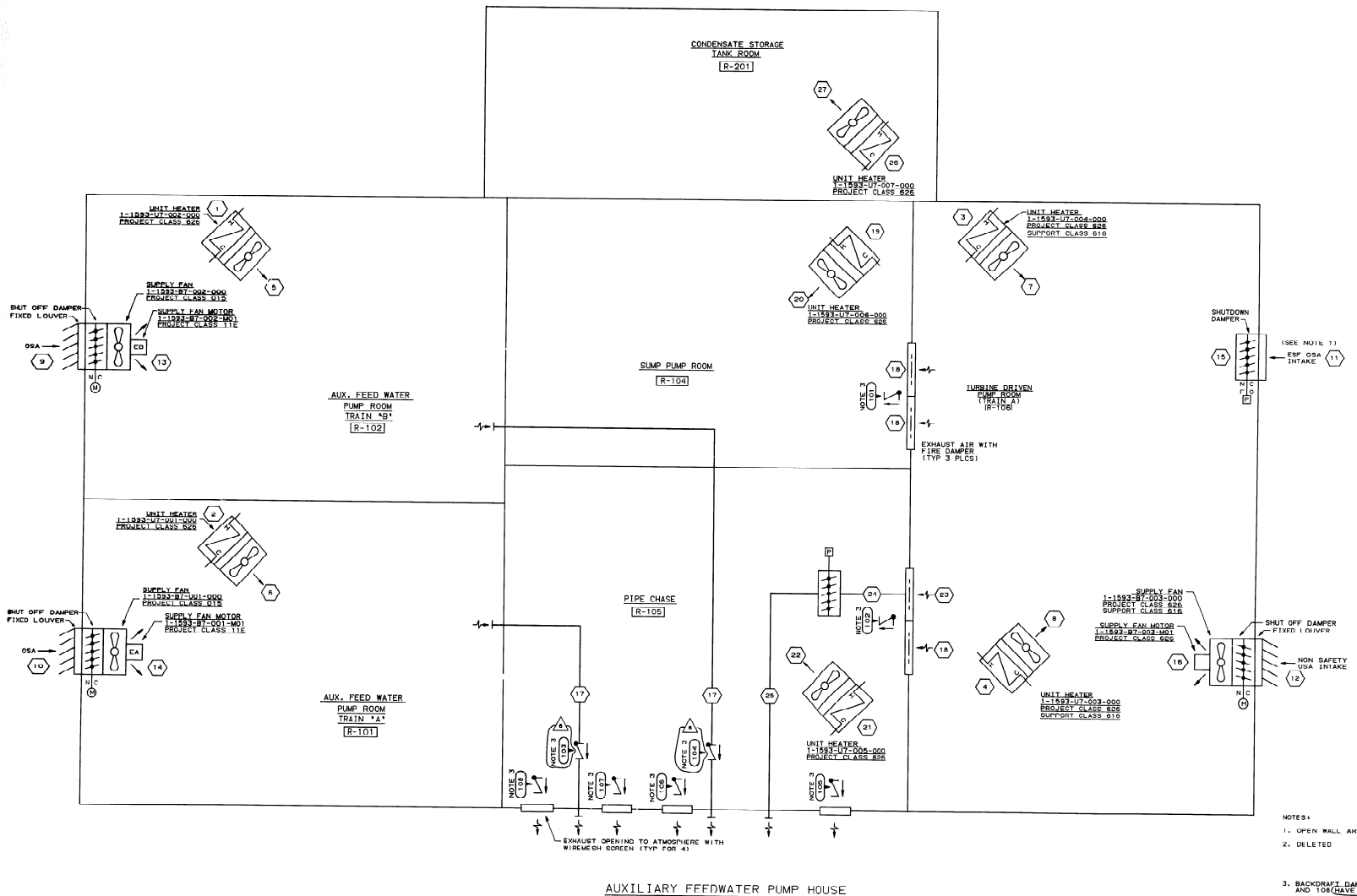
[illegible]

NOTES:

1. N - DESIGNATES NORMAL OPERATION.
2. E - DESIGNATES EMERGENCY OPERATION.
3. DELETED
4. FOR SUMMER MODE SINGLE FAN OPERATION (ESP) THE FLOW QUANTITIES SHALL BE SAME AS WINTER MODE (SP) 1 FAN SHOWN AT 15.000 GPM. 2 FAN = 30.000 GPM. SINGLE FAN OPERATION IS APPLICABLE TO FANS 1-1588-97-01-000 AND 1-1588-97-002-000 ONLY.

 <div style="text-align: center;"> <h1 style="margin: 0;">BECHTEL</h1> <p style="margin: 0;">LOS ANGELES</p> </div>		
<h2 style="margin: 0;">GEORGIA POWER COMPANY</h2> <h3 style="margin: 0;">ALVIN W. VOGTLE NUCLEAR PLANT</h3>		
<p style="margin: 0;">FLOW DIAGRAM</p> <p style="margin: 0;">DIESEL GENERATOR BUILDING</p> <p style="margin: 0;">HVAC SYSTEM 1566</p>		
SCALE: NONE	DRAWING NO.	REV.
JOB NO. 9510	1X40B267	5

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- NOTES:
1. OPEN WALL AREA TO BE 30 FT².
 2. DELETED
 3. BACKDRAFT DAMPER #101, 102, 103, 104, 105, 106, 107 AND 108 HAVE BLADES REMOVED.
 4. REFER TO P&ID 1X408227
 5. FOR ACCIDENT CONDITION, THE AIR FLOW SHALL VARY DEPENDING ON OUTSIDE AIR TEMPERATURE.

MODE	PARAMETER		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
NORMAL	FLOW	CFM	500	500	1250	1250	500	500	1250	1250	8400	8400	—	18000	8400	8400	—	18000	8400	6000	500	500	500	500	—	—	—	870	870
	TEMP	°F	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR	17-98	17-98	—	17-98	17-98	17-98	—	17-98	40-104	40-104	VAR	VAR	VAR	VAR	—	—	—	VAR	VAR
	PRESSURE	INCH OF WTR	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ACCIDENT	FLOW	CFM	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	TEMP	°F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	PRESSURE	INCH OF WTR	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

REVISIONS

NO.	DATE	BY	CHK	APP	DESCRIPTION
1	10-18-84	...	...	...	...
2	10-18-84	...	...	...	...
3	10-18-84	...	...	...	...
4	10-18-84	...	...	...	...
5	10-18-84	...	...	...	...
6	10-18-84	...	...	...	...
7	10-18-84	...	...	...	...
8	10-18-84	...	...	...	...
9	10-18-84	...	...	...	...
10	10-18-84	...	...	...	...
11	10-18-84	...	...	...	...
12	10-18-84	...	...	...	...
13	10-18-84	...	...	...	...
14	10-18-84	...	...	...	...
15	10-18-84	...	...	...	...
16	10-18-84	...	...	...	...
17	10-18-84	...	...	...	...
18	10-18-84	...	...	...	...
19	10-18-84	...	...	...	...
20	10-18-84	...	...	...	...
21	10-18-84	...	...	...	...
22	10-18-84	...	...	...	...
23	10-18-84	...	...	...	...
24	10-18-84	...	...	...	...
25	10-18-84	...	...	...	...
26	10-18-84	...	...	...	...
27	10-18-84	...	...	...	...

REVISIONS

NO.	DATE	BY	CHK	APP	DESCRIPTION
1	10-18-84
2	10-18-84
3	10-18-84
4	10-18-84
5	10-18-84
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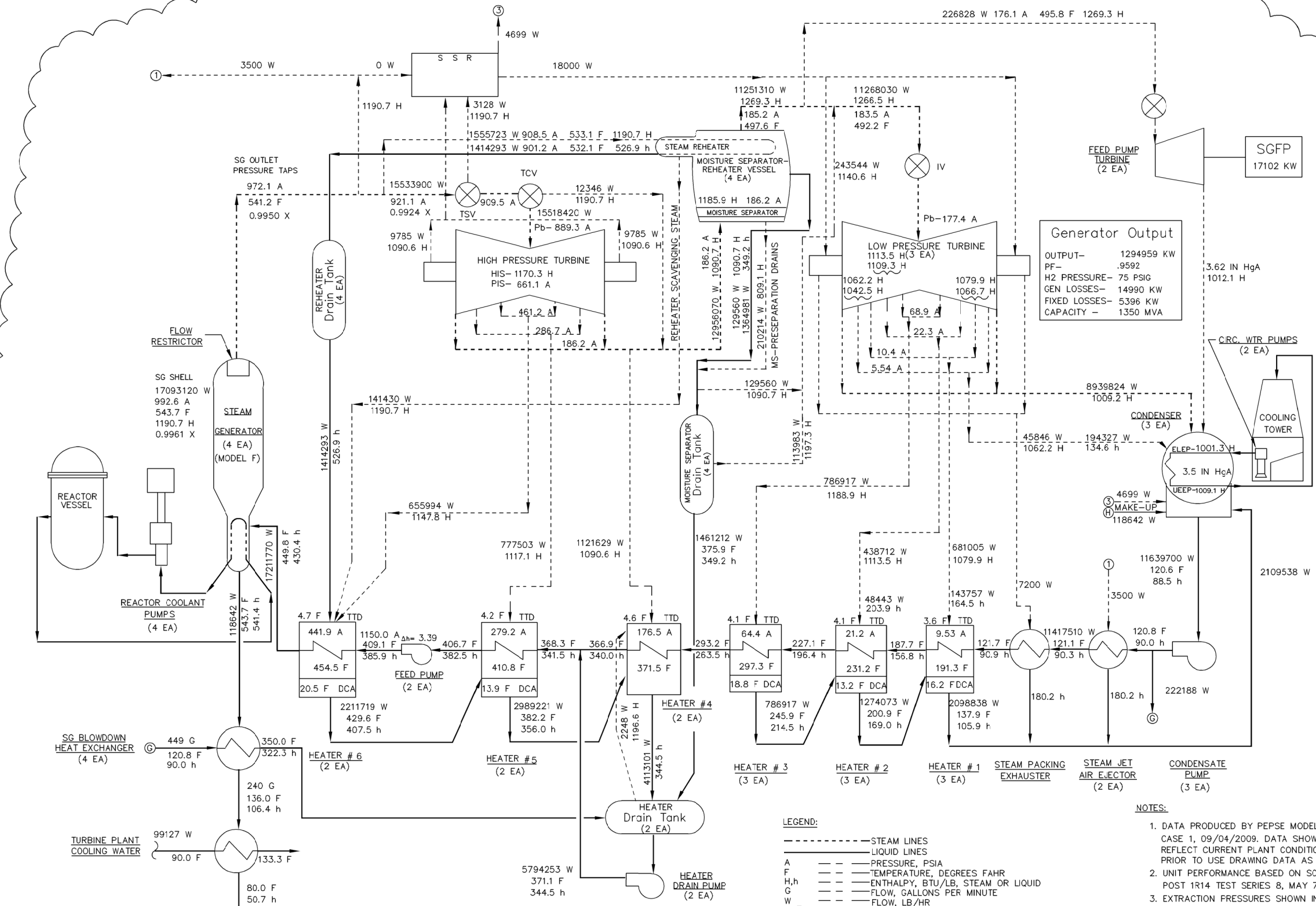
REVISIONS

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| Southern Company Services, Inc. 704 | | |
|  | BECHTEL | |
| | LOS ANGELES | |
| GEORGIA POWER COMPANY | | |
| ALVIN W. VOGTLE NUCLEAR PLANT | | |
| AIR FLOW DIAGRAM | | |
| TURBINE BUILDING HVAC SYSTEMS | | |
| SYSTEMS 1575 & 1574 | | |
| SCALE: NO SCALE | DRAWING NO. | REV. |
| JOB NO. 9530 | 1X4DB301 | 5 |

INCORP MFCRS-2897 & 2977 & 106N DELETED WATER ANALYSIS R.N. REVISIED MODE I TEMP															REVISIED SYSTEM 1574 REVISIED MODE I TEMPS RELOCATED 2 ELEC DUCT HTYS ADDED SNOOW PLEG LINE; ADDED 2 F.O.S.															REMOVED PRELIM STICKER; ADDED CHART CHNG CEM NOS. MH-035 REVISIED TO FINAL DESIGN ISSUED FOR CONSTRUCTION															ENCL. MGR. SCALE: NO SCALE DRAWING NO. 1X4DB301 DATE 7-20-78 SIZE C 360H															SYSTEMS 1575 & 1574 REV. 5														
REVISIONS DATE DR. CHK. RPE. DRN. 100MM DPH. DPH. DRN. NO.															REVISIONS DATE DR. CHK. RPE. DRN. 100MM DPH. DPH. DRN. NO.															REVISIONS DATE DR. CHK. RPE. DRN. 100MM DPH. DPH. DRN. NO.															REVISIONS DATE DR. CHK. RPE. DRN. 100MM DPH. DPH. DRN. NO.															REVISIONS DATE DR. CHK. RPE. DRN. 100MM DPH. DPH. DRN. NO.														



TURBINE NAMEPLATE RATING
1,156,622 KW - 3.5IN HGA - 0% M.U.
938 PSIA 1,191.7H 1 STAGE REHEAT
TC6F -33N LSB - 1,800 RFM
GEN:1,350,000 KVA - 75 PSIG H₂ - 0.90 PF (LIQ)

PERFORMANCE	
1 GROSS TURBINE GENERATOR POWER	1294959 KW
2 GROSS REACTOR HEAT RATE	10095 BTU/KWHR
3 REACTOR THERMAL OUTPUT (CORE)	3778.8 MWt
4 RCP HEAT INPUT + HEAT LOSSES	15.01 MWt
5 NUCLEAR STEAM SUPPLY OUTPUT	3793.8 MWt

- LEGEND:**
- STEAM LINES
 - LIQUID LINES
 - A --- PRESSURE, PSIA
 - F --- TEMPERATURE, DEGREES FAHR
 - H,h --- ENTHALPY, BTU/LB, STEAM OR LIQUID
 - G --- FLOW, GALLONS PER MINUTE
 - W --- FLOW, LB/HR
 - MWt --- MEGAWATTS THERMAL
 - IN HGA --- VACUUM, INCHES MERCURY ABSOLUTE
 - DCA --- HEATER DRAIN COOLER APPROACH TEMP
 - TTD --- TERMINAL TEMP DIFFERENCE
 - TSV --- TURBINE STOP VALVE
 - TCV --- TURBINE CONTROL VALVE
 - IV --- TURBINE INTERCEPT VALVE
 - HIS --- FIRST STAGE ENTHALPY
 - PIS --- FIRST STAGE PRESSURE
 - PB --- TURBINE BOWL PRESSURE
 - X --- QUALITY FRACTION

- NOTES:**
1. DATA PRODUCED BY PEPSE MODEL V01AB5R2, CASE 1, 09/04/2009. DATA SHOWN MAY NOT REFLECT CURRENT PLANT CONDITIONS. USE CAUTION PRIOR TO USE DRAWING DATA AS A DESIGN INPUT.
 2. UNIT PERFORMANCE BASED ON SCS/GPP POST 1R14 TEST SERIES 8, MAY 7-8, 2009.
 3. EXTRACTION PRESSURES SHOWN INCLUDE 3% FLANGE LOSS.

SOUTHERN COMPANY

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

UNIT 1 HEAT BALANCE DIAGRAM
TURBINE VVO (MAX. CALCULATED)

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		NO.	DATE	DR	CHK	APPV	DTL	JOB NO.10604		
		CAD 1X4DC101		ACAD2002		PVK - 01		SIZE E 34x44		

Vogtle Electric Generating Plant
Unit No. 1

Document Number:

Sheet #

1X4DC102

1

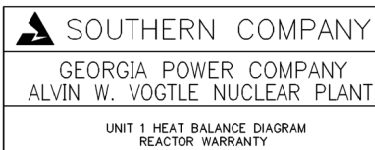
Document Title:

**HEAT BALANCE DIAGRAM TURBINE
GUARANTEE**

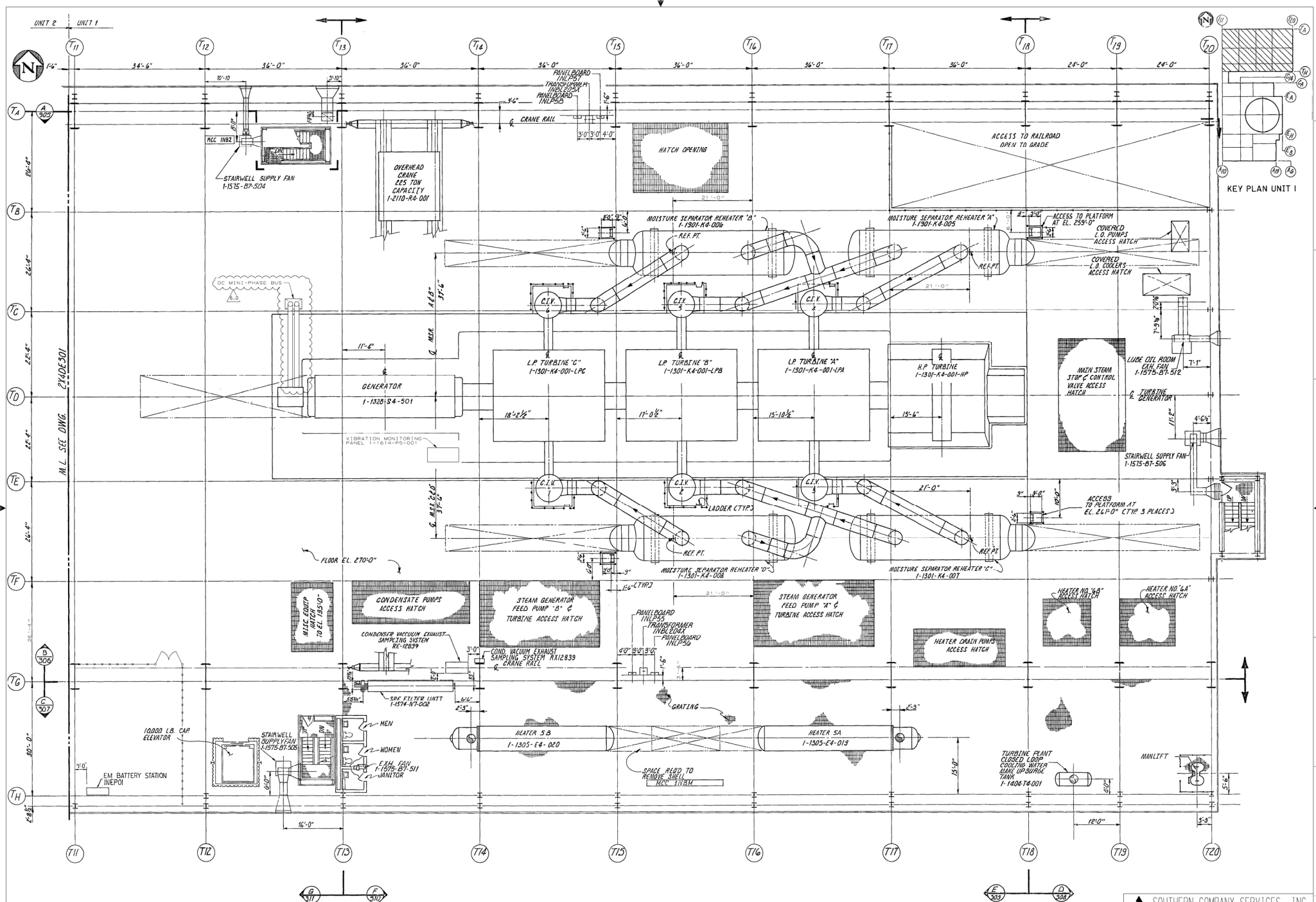
VOIDED

VOIDED Per: ABN 1053871301M003, VER. 2.0

Ver. 6.0



SCALE: NONE	DRAWING NO.	VER.
JOB NO.10604	1X4DC103	7.0



KEY PLAN UNIT I

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

TURBINE BLDG.
EQUIPMENT LOCATION PLAN
LEVEL 3, ELEV. 270'-0" & ABOVE

SCALE: 1/8" = 1'-0"

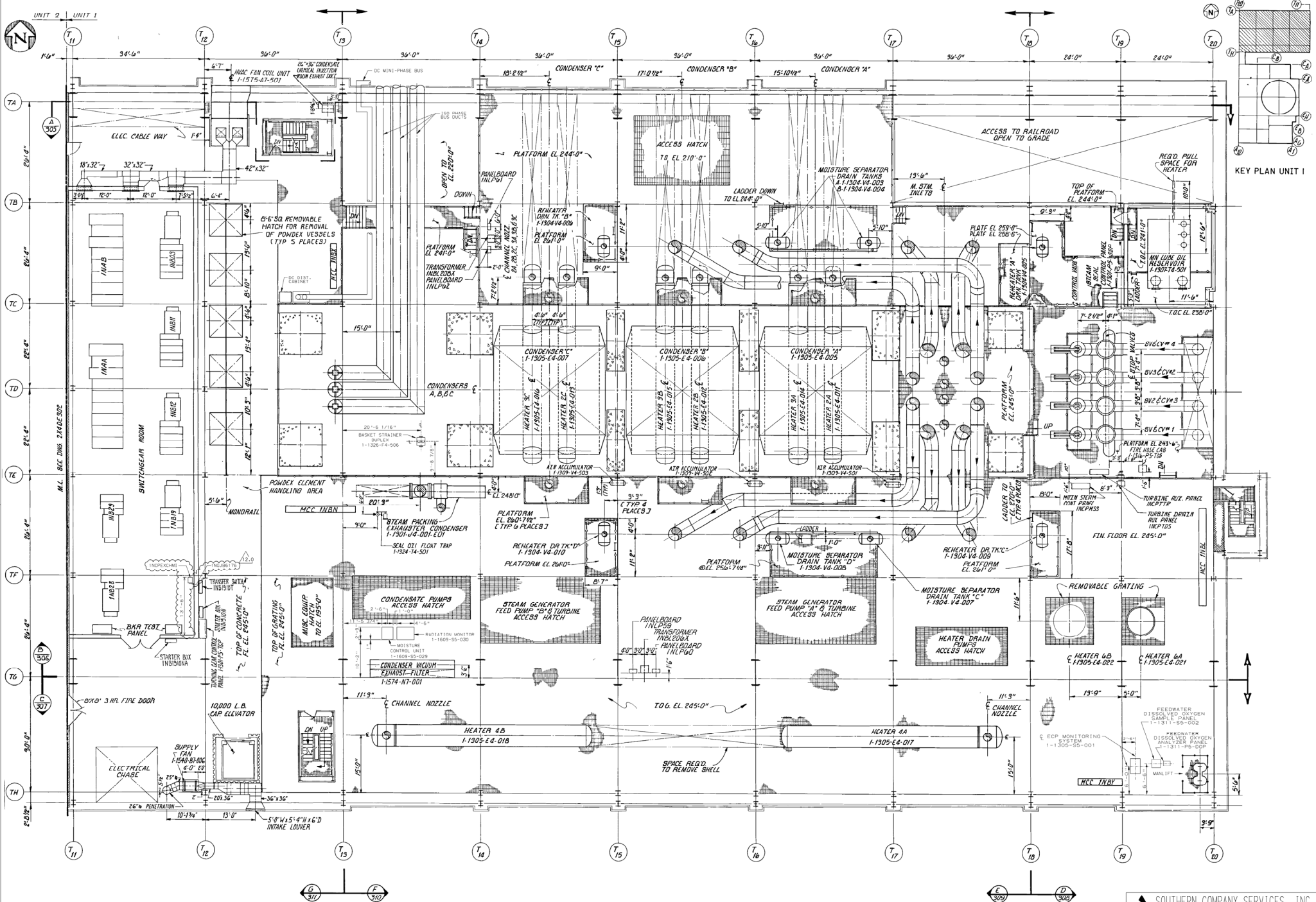
DRAWING NO. 1X4DE301

VER. 6.0

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6.0	REVISED PER AIN 1049001001C009, VER. 1.0	6-5-08	JLO	RBH	JMR
NO.	VERSIONS	DATE	DR	CHK	APPRV

JOB NO. 10604	SIZE E 34X44
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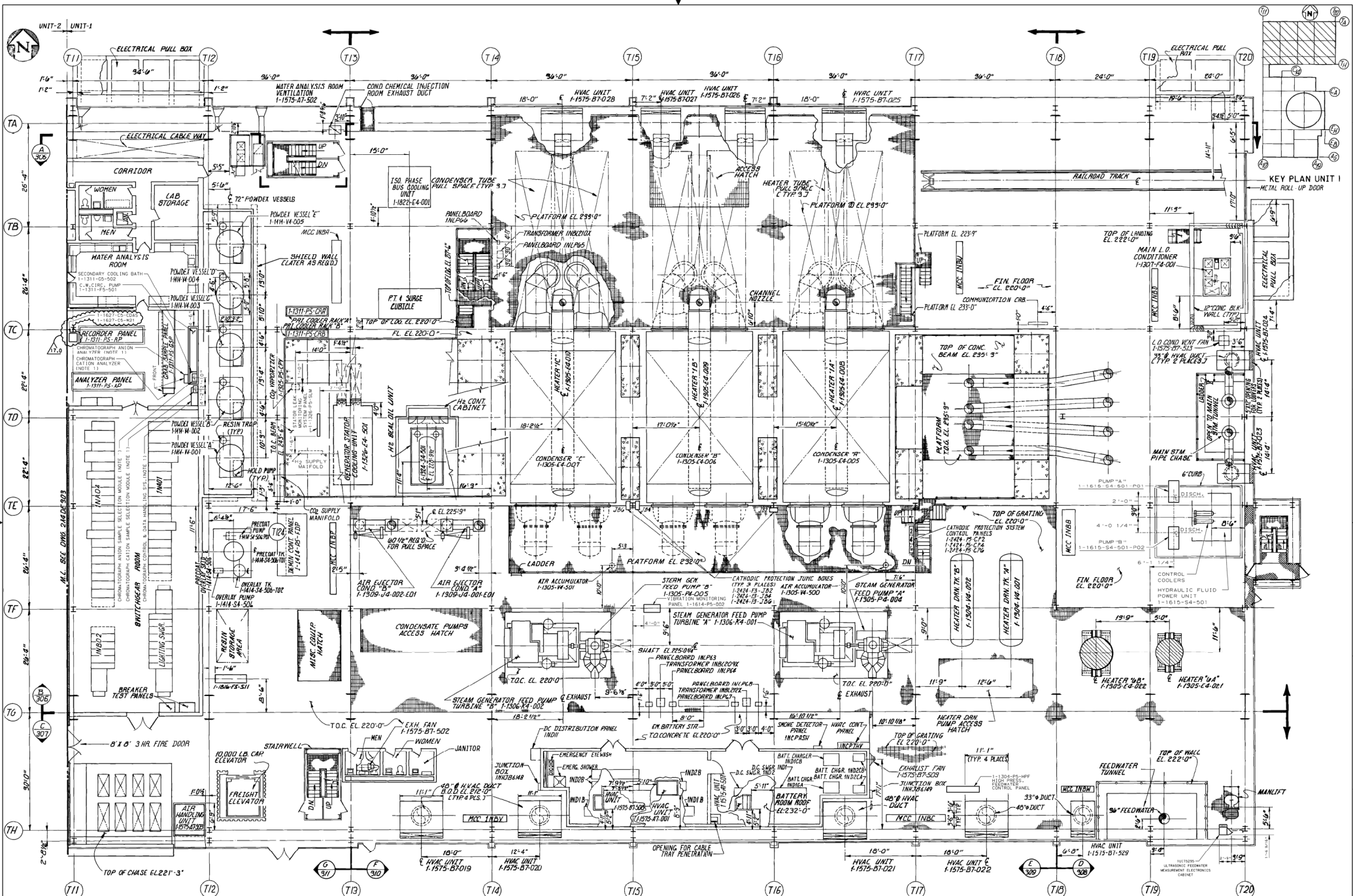
KEY PLAN UNIT 1

SOUTHERN COMPANY SERVICES, INC.
 BIRMINGHAM, ALABAMA
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

TURBINE BLDG.
EQUIPMENT LOCATION PLAN
 LEVEL 2, ELEV. 245'-0" TO 270'-0"

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12.0	REVISED PER AIN 1049001501E15B, VER. 2.0	8-27-89	VP	WMD	JMR	SCALE: NONE	DRAWING NO.	VER.
NO.	VERSIONS	DATE	DR	CHK	APPV	JOB NO. 10604	1X4DE302	12.0
						SIZE E 34X44		



SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

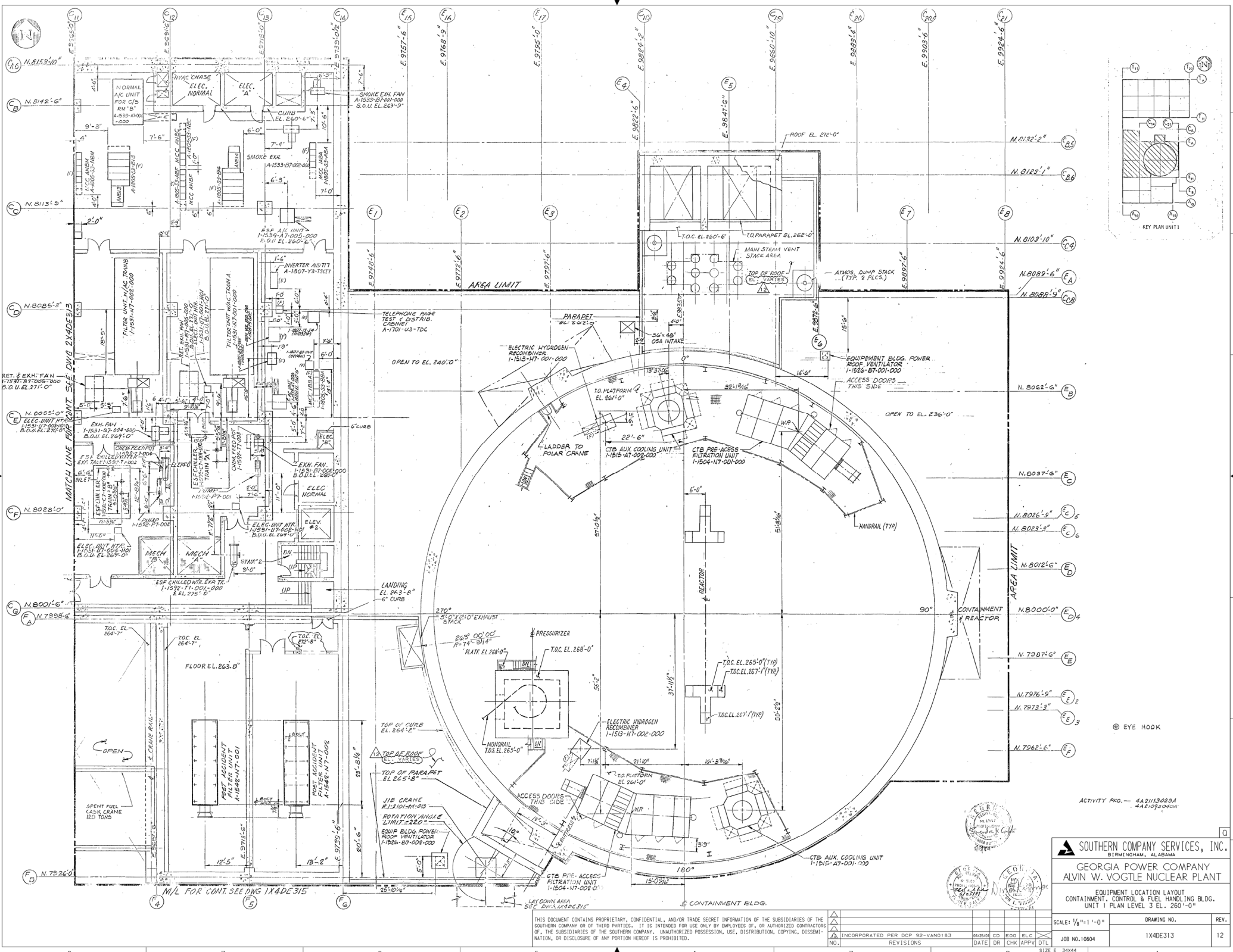
TURBINE BLDG.
EQUIPMENT LOCATION PLAN
LEVEL 1, ELEV. 220'-0" TO 245'-0"

SCALE: NONE DRAWING NO. 1X4DE303 VER. 17.0

DATE 08/14/00 BY CYS/TSB/CHK APPV

REVISIONS: 17.0 REVISED PER ABN 1081846201J072, VER. 1.0

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ACTIVITY PKG. — 4A2113023A
4A21073040A

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

EQUIPMENT LOCATION LAYOUT
CONTAINMENT, CONTROL & FUEL HANDLING BLDG.
UNIT 1 PLAN LEVEL 3 EL. 260'-0"

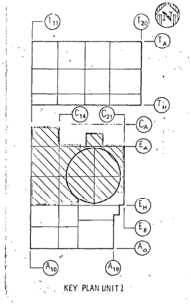
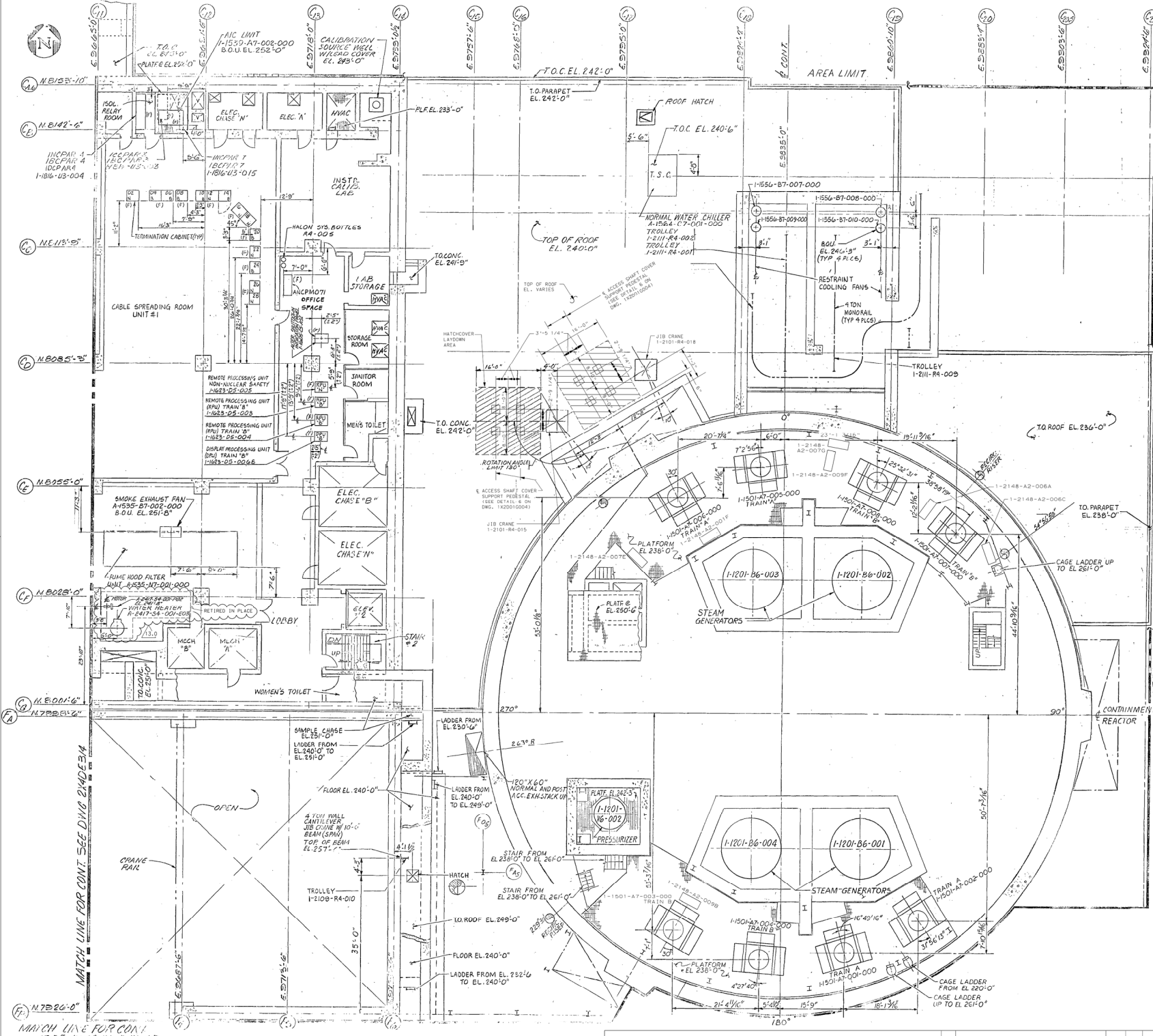
SCALE: 1/8" = 1'-0"

DRAWING NO. 1X4DE313

REV. 12

NO.	REVISIONS	DATE	DR	CD	EDG	ELC	DTL
1	INCORPORATED PER DCP 92-VAND183	04/29/93	DR	CD	EDG <td>ELC</td> <td>DTL</td>	ELC	DTL

SIZE E 34x44



NOTES:
 1. THE FOLLOWING STORAGE CONTAINERS MUST BE RESTRAINED FROM EXCESSIVE MOVEMENT DURING SEISMIC EVENTS.
 ELEVATION 238'-0":
 I-2148-A2-001F
 I-2148-A2-006A
 I-2148-A2-006B
 I-2148-A2-007E
 I-2148-A2-007S
 I-2148-A2-008B
 I-2148-A2-009F
 MINIMUM RESTRAINT REQUIREMENTS AND TYPICAL RESTRAINT DETAILS ARE SHOWN ON DWG. AND/OR VOB-1.

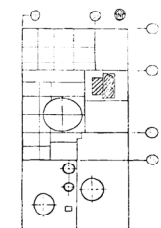
ACTIVITY PACKAGE NO. 442112026A
 442112026A

SOUTHERN COMPANY SERVICES, INC.
 BIRMINGHAM, ALABAMA
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

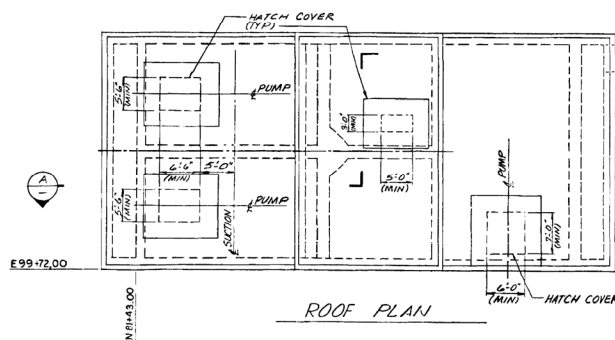
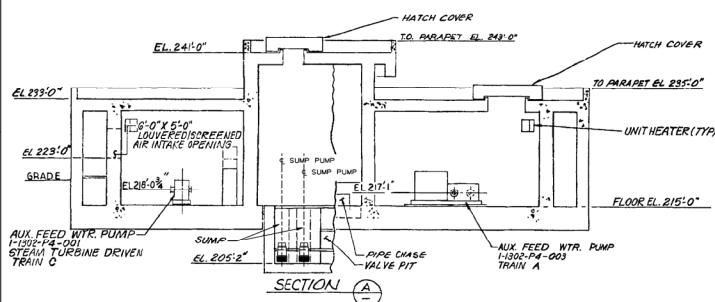
EQUIPMENT LOCATION LAYOUT
 CONTAINMENT, CONTROL & FUEL HANDLING BLDG.
 UNIT 1 PLAN LEVEL 2 EL. 240'-0"

SCALE: 1/8"=1'-0"	DRAWING NO.	VER.
JOB NO. 10604	1X40EJ14	13.0
DATE: DR CHK APPV		
VERSIONS		
13.0 REVISED PER ABR-V01757, VER. 1.0	10-29-98 vmp	WLM JMR

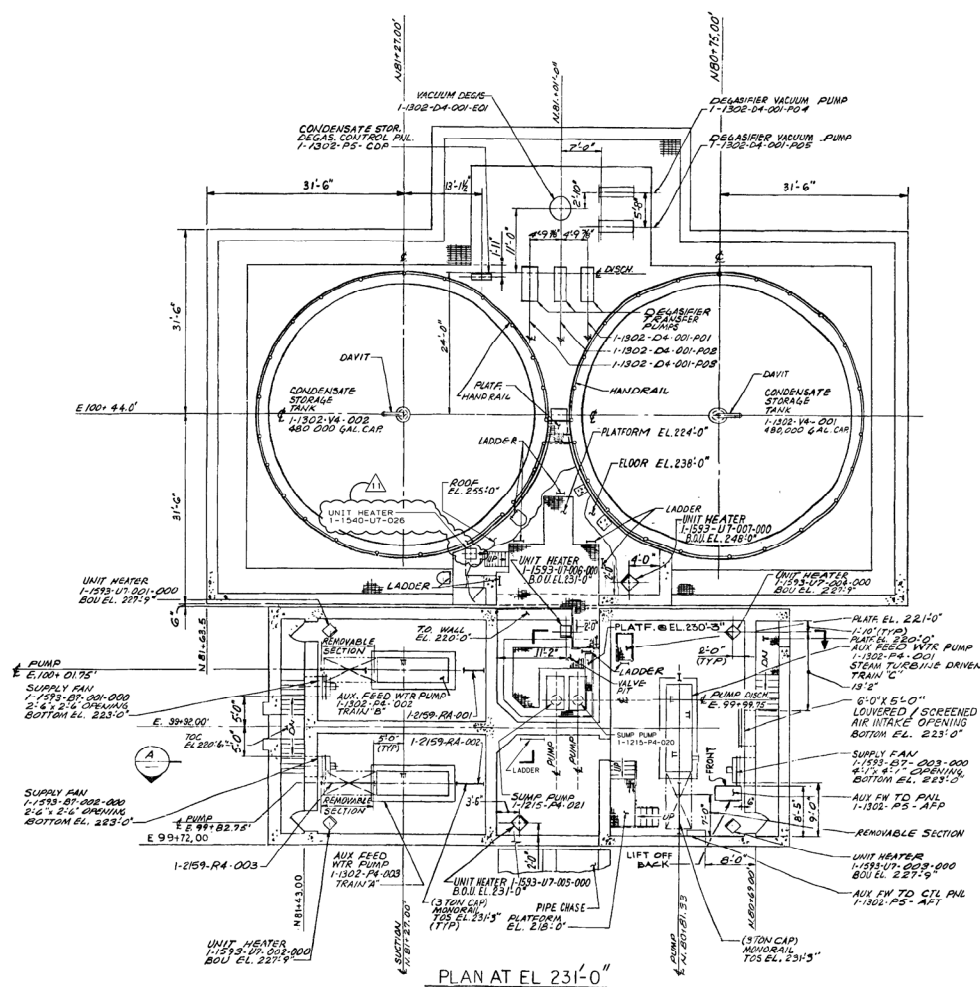
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KEY PLAN UNIT 1



ROOF PLAN

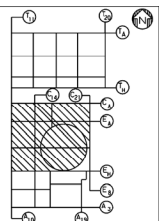
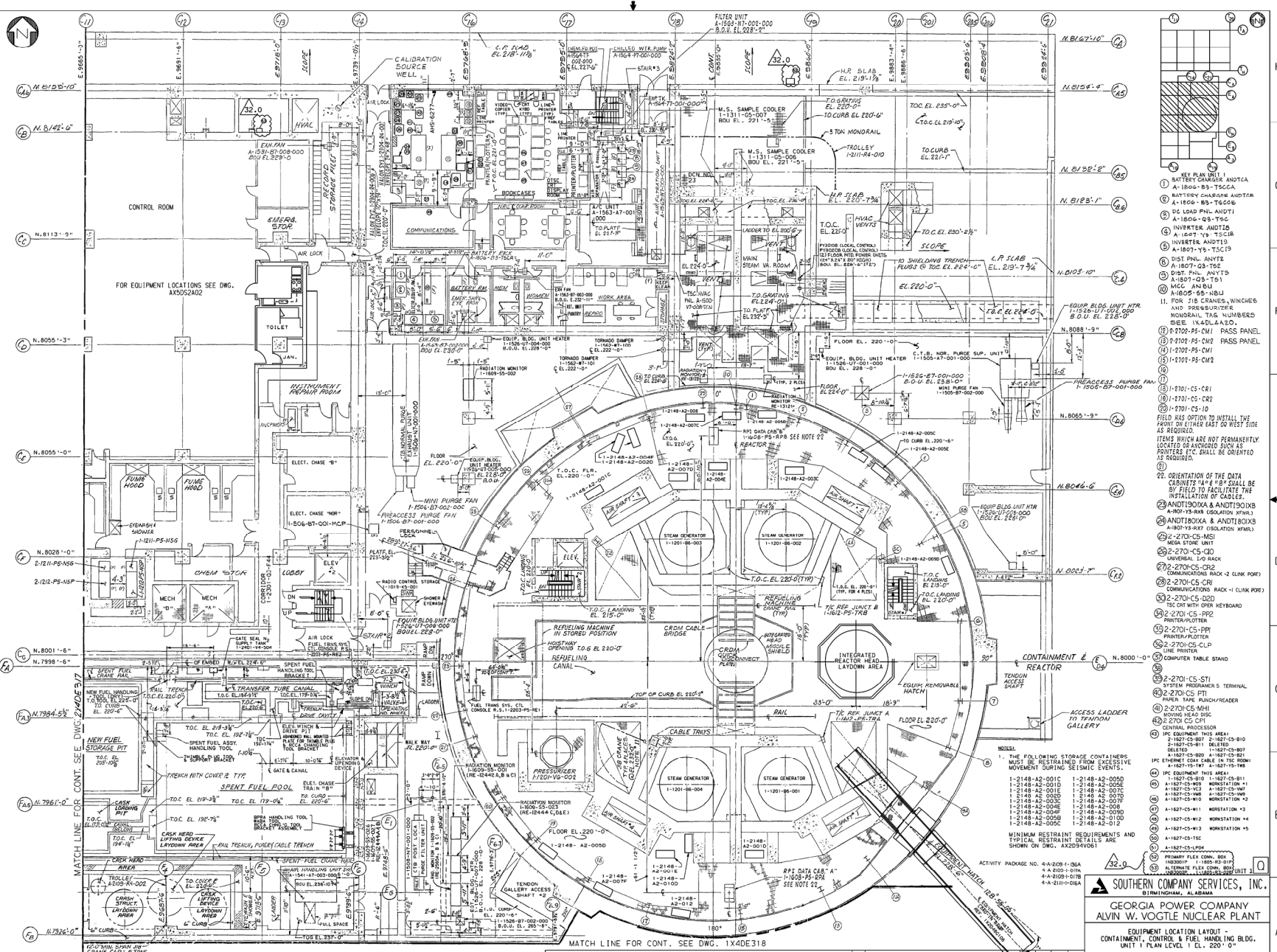


PLAN AT EL 231'-0"



GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT
AUX. FEEDWATER PUMP HOUSE AND
CONDENSATE STORAGE TANK
EQUIPMENT LOCATION LAYOUT

[illegible]



1. KEY PLAN UNIT 1
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ACTIVITY PACKAGE NO. 4-A-200-1-00A
4-A-200-1-01A
4-A-200-1-02A
4-A-200-1-03A

MINIMUM RESTRAINT REQUIREMENTS AND TYPICAL RESTRAINT DETAILS ARE SHOWN ON DWG. AX209V061

1. THE FOLLOWING STORAGE CONTAINERS MUST BE RESTRAINED FROM EXCESSIVE MOVEMENT DURING SEISMIC EVENTS:

CONTAINER	RESTRAINT
1-2148-A2-001C	1-2148-A2-005D
1-2148-A2-001D	1-2148-A2-005E
1-2148-A2-001E	1-2148-A2-005F
1-2148-A2-001F	1-2148-A2-005G
1-2148-A2-001G	1-2148-A2-005H
1-2148-A2-001H	1-2148-A2-005I
1-2148-A2-001I	1-2148-A2-005J
1-2148-A2-001J	1-2148-A2-005K
1-2148-A2-001K	1-2148-A2-005L
1-2148-A2-001L	1-2148-A2-005M
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1-2148-A2-001N	1-2148-A2-005O
1-2148-A2-001O	1-2148-A2-005P
1-2148-A2-001P	1-2148-A2-005Q
1-2148-A2-001Q	1-2148-A2-005R
1-2148-A2-001R	1-2148-A2-005S
1-2148-A2-001S	1-2148-A2-005T
1-2148-A2-001T	1-2148-A2-005U
1-2148-A2-001U	1-2148-A2-005V
1-2148-A2-001V	1-2148-A2-005W
1-2148-A2-001W	1-2148-A2-005X
1-2148-A2-001X	1-2148-A2-005Y
1-2148-A2-001Y	1-2148-A2-005Z

ACTIVITY PACKAGE NO. 4-A-200-1-00A
4-A-200-1-01A
4-A-200-1-02A
4-A-200-1-03A

MINIMUM RESTRAINT REQUIREMENTS AND TYPICAL RESTRAINT DETAILS ARE SHOWN ON DWG. AX209V061

1. THE FOLLOWING STORAGE CONTAINERS MUST BE RESTRAINED FROM EXCESSIVE MOVEMENT DURING SEISMIC EVENTS:

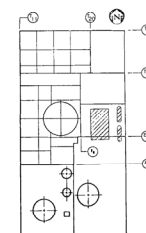
CONTAINER	RESTRAINT
1-2148-A2-001C	1-2148-A2-005D
1-2148-A2-001D	1-2148-A2-005E
1-2148-A2-001E	1-2148-A2-005F
1-2148-A2-001F	1-2148-A2-005G
1-2148-A2-001G	1-2148-A2-005H
1-2148-A2-001H	1-2148-A2-005I
1-2148-A2-001I	1-2148-A2-005J
1-2148-A2-001J	1-2148-A2-005K
1-2148-A2-001K	1-2148-A2-005L
1-2148-A2-001L	1-2148-A2-005M
1-2148-A2-001M	1-2148-A2-005N
1-2148-A2-001N	1-2148-A2-005O
1-2148-A2-001O	1-2148-A2-005P
1-2148-A2-001P	1-2148-A2-005Q
1-2148-A2-001Q	1-2148-A2-005R
1-2148-A2-001R	1-2148-A2-005S
1-2148-A2-001S	1-2148-A2-005T
1-2148-A2-001T	1-2148-A2-005U
1-2148-A2-001U	1-2148-A2-005V
1-2148-A2-001V	1-2148-A2-005W
1-2148-A2-001W	1-2148-A2-005X
1-2148-A2-001X	1-2148-A2-005Y
1-2148-A2-001Y	1-2148-A2-005Z

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

EQUIPMENT LOCATION LAYOUT -
CONTAINMENT, CONTROL & FUEL HANDLING BLDG.
UNIT 1, 220' LEVEL

SCALE: NONE
DRAWING NO. 1X4DE317
REV. 32.0



11

C

1

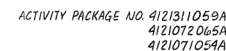
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10

1

18

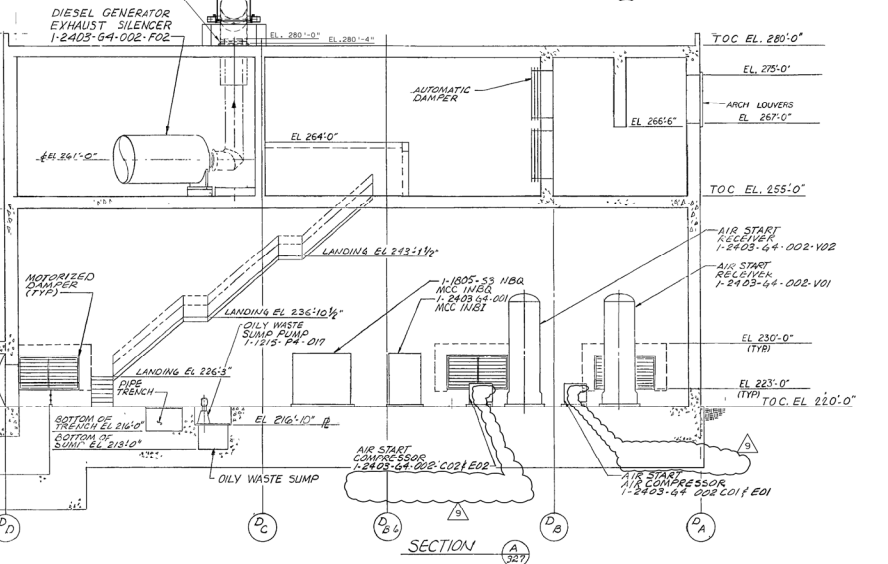
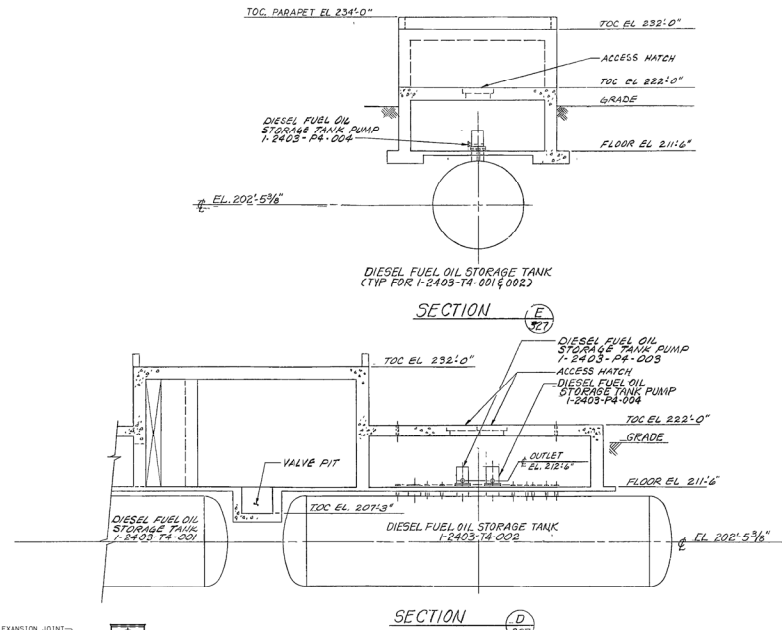
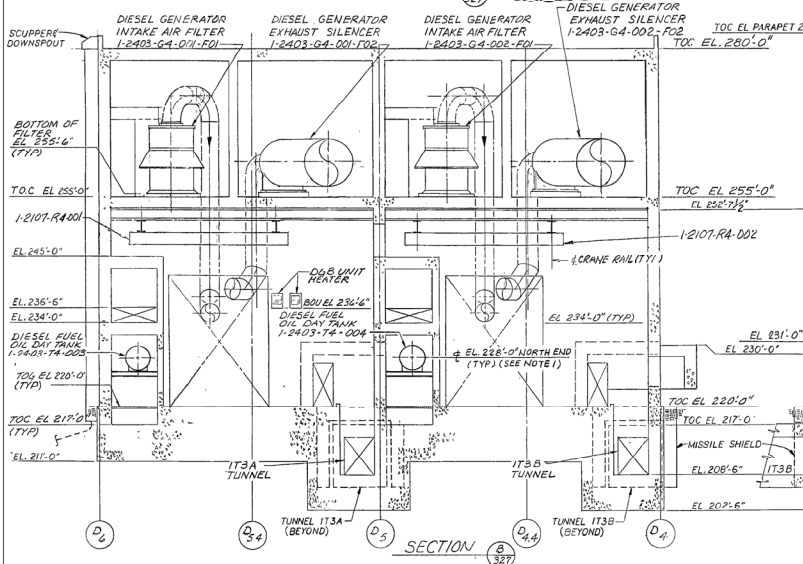
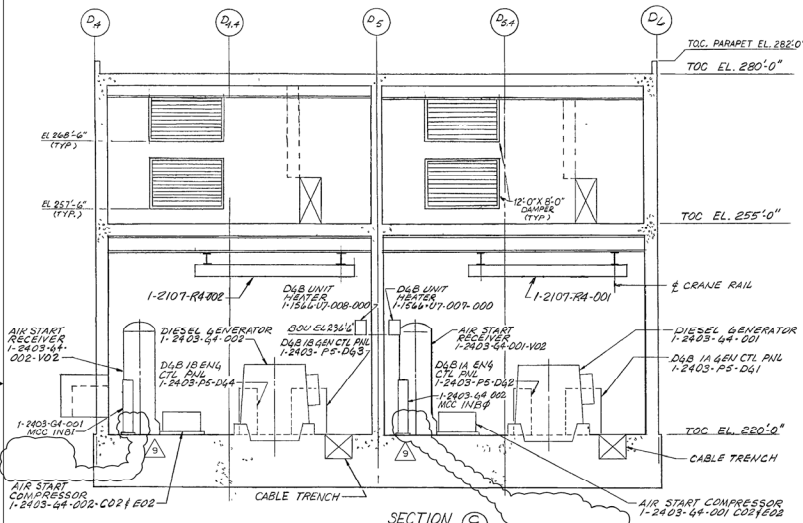
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DIESEL GEN. BLDG. UNIT
EQUIP. LOCATION LAYOUT

Q

SCALE: $\frac{1}{8}'' = 1'-0''$	DRAWING NO.	REV.
100 NO. 1/05/04	1X4DE327	11

CAD NAME



NOTE:
1. TANK SLOPES DOWN FROM NORTH END TO SOUTH END.

ACTIVITY PACKAGE NO. 41210710BBA

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

DIESEL GEN. BLDG. UNIT 1
EQUIP. LOCATION LAYOUT SECTIONS

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NO.																		REVISIONS		DATE				DR CHK APPV DTL				JOB NO. 10604				1X4DE330				9							
5																		3		2				SIZE E 34x44				1				CAD NAME											

