


NOTES:

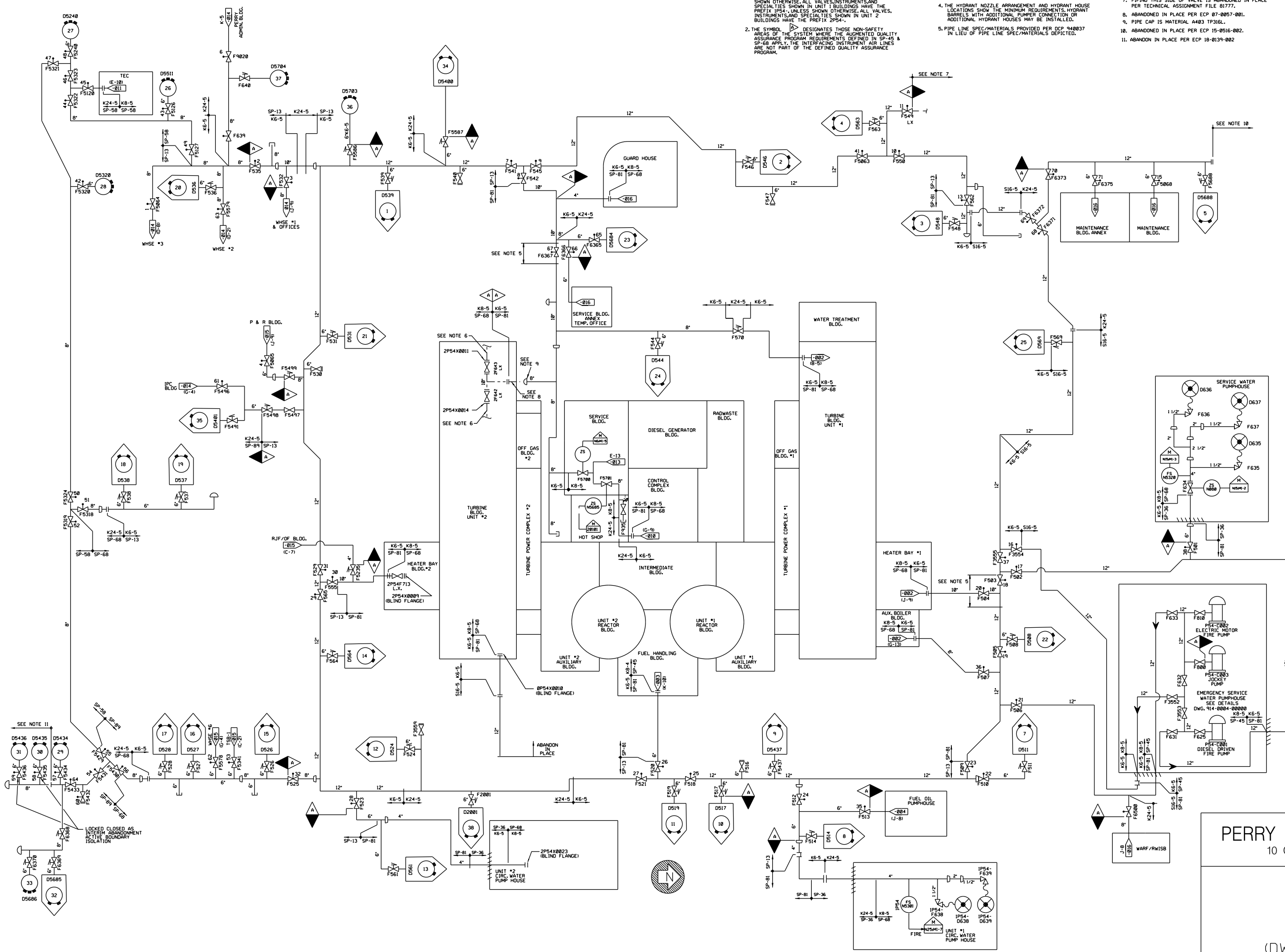
- 1. ALL VALVES, INSTRUMENTS, AND SPECIALTIES SHOWN IN COMMON BUILDINGS HAVE THE PREFIX 0P54-, UNLESS SHOWN OTHERWISE. ALL VALVES, INSTRUMENTS, AND SPECIALTIES SHOWN IN UNIT 1 BUILDINGS HAVE THE PREFIX 1P54-, UNLESS SHOWN OTHERWISE. ALL VALVES, INSTRUMENTS, AND SPECIALTIES SHOWN IN UNIT 2 BUILDINGS HAVE THE PREFIX 2P54-.
- 2. THE SYMBOL  DESIGNATES THESE NON-SAFETY AREAS OF THE SYSTEM WHERE THE AUGMENTED QUALITY ASSURANCE PROGRAM REQUIREMENTS DEFINED IN SP-45 & SP-68 APPLY. THE INTERFACING INSTRUMENT AIR LINES ARE NOT PART OF THE DEFINED QUALITY ASSURANCE PROGRAM.

NOTES CONTINUED:

- 3. ALARM SIGNALS FROM VALVES AND FROM PANELS ARE RECEIVED AT THE FIRE COMPUTER DETECTION SYSTEM.
- 4. THE HYDRANT NOZZLE ARRANGEMENT AND HYDRANT HOUSE LOCATIONS SHOW THE MINIMUM REQUIREMENTS. HYDRANT BARRELS WITH ADDITIONAL PUMPER CONNECTION OR ADDITIONAL HYDRANT HOUSES MAY BE INSTALLED.
- 5. PIPE LINE SPEC/MATERIALS PROVIDED PER DCP 940837 IN LIEU OF PIPE LINE SPEC/MATERIALS DEPICTED.

NOTES CONTINUED:

- 6. ABANDONED IN PLACE PER TECHNICAL ASSIGNMENT FILE 81653.
- 7. PIPING THIS SIDE OF VALVE IS ABANDONED IN PLACE PER TECHNICAL ASSIGNMENT FILE 81777.
- 8. ABANDONED IN PLACE PER ECP 07-0057-001.
- 9. PIPE CAP IS MATERIAL A483 1P316L.
- 10. ABANDONED IN PLACE PER ECP 15-0516-002.
- 11. ABANDON IN PLACE PER ECP 18-0139-002



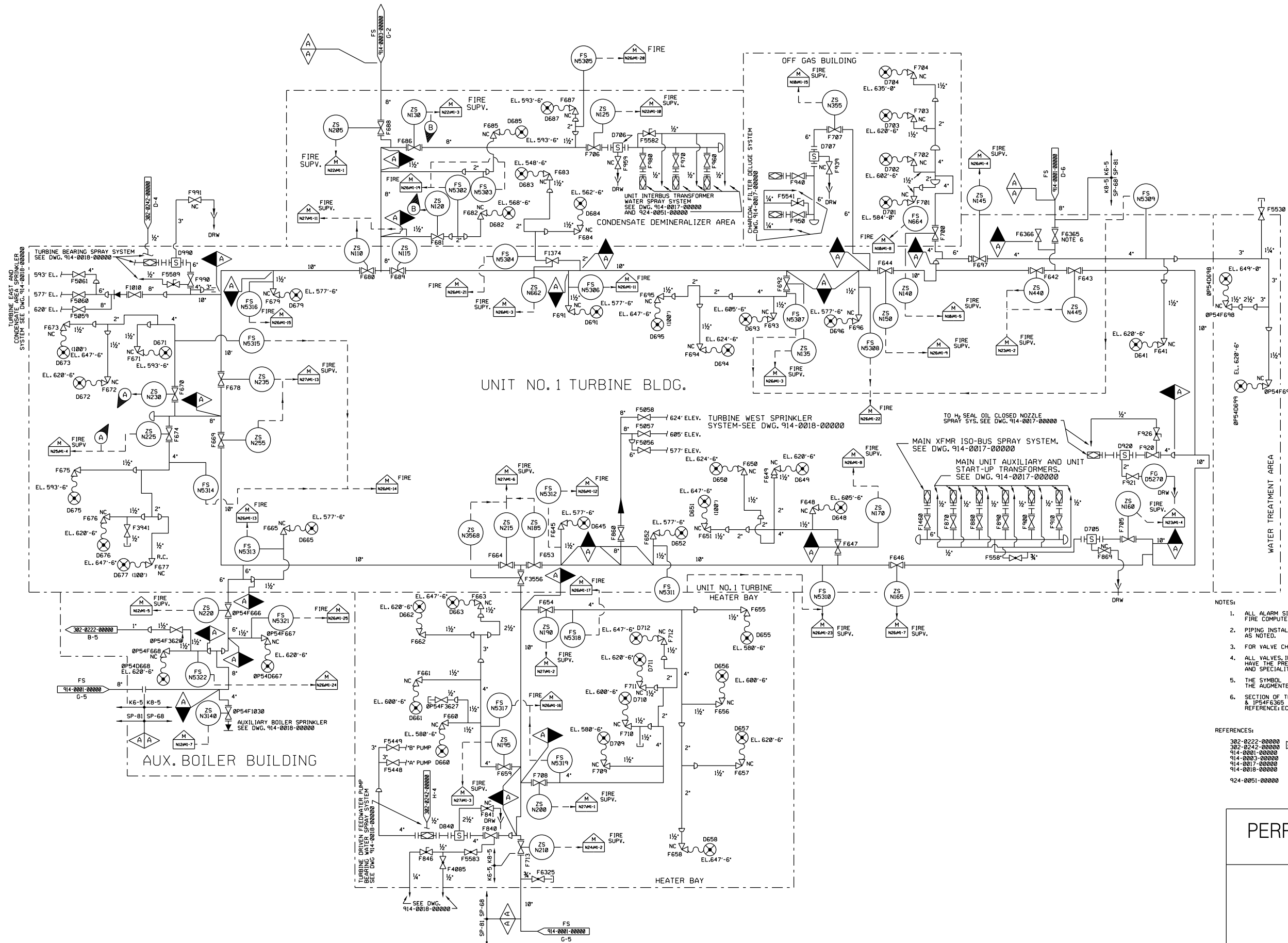
(REV. 22 10/2021)


PERRY NUCLEAR POWER PLANT
 10 CENTER RD., PERRY, OHIO 44081

FIRE SERVICE
 WATER YARD AREA
 FIGURE 9.5-1
 (DWGWD-914-0001-00000)

OPERATING DATA						
#	PSIG	CPM	F	BY	REMARKS	REV
	125	2500	70			

DESIGN DATA									
#	NORMAL PSIG	F	UPSET PSIG	F	TIME	BY	CHKD	REMARKS	REV
	125	70	175	150					



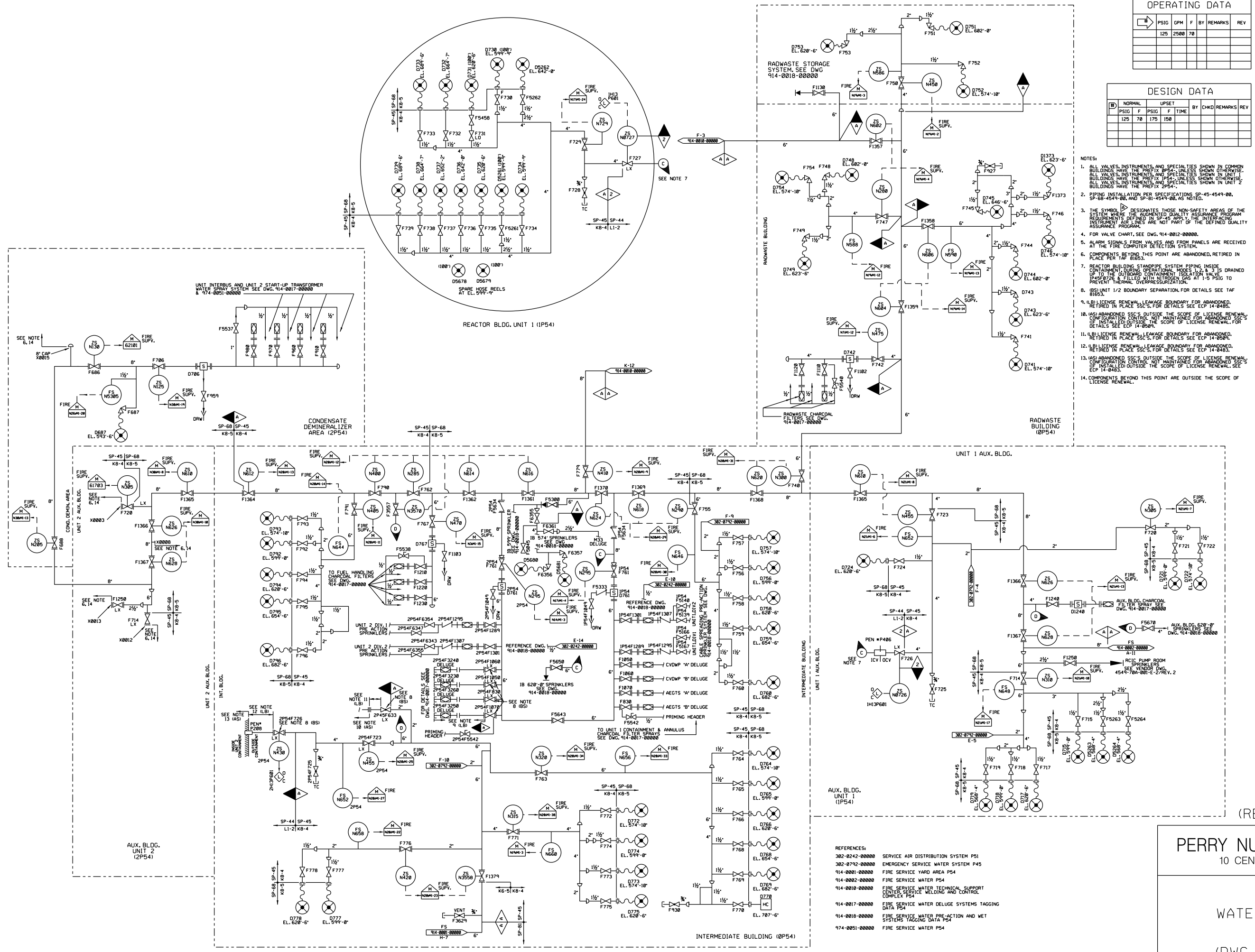
- NOTES:
1. ALL ALARM SIGNALS SHOWN ON THIS DRAWING ARE RECEIVED AT THE FIRE COMPUTER DETECTION SYSTEM.
 2. PIPING INSTALLATION PER SPECIFICATIONS SP-68-4549-00 AND SP-81-4549-00 AS NOTED.
 3. FOR VALVE CHART, SEE DWG. 914-0012-00000.
 4. ALL VALVES, INSTRUMENTS AND SPECIALITIES SHOWN IN COMMON BUILDINGS HAVE THE PREFIX 0P54-. UNLESS SHOWN OTHERWISE, ALL VALVES, INSTRUMENTS, AND SPECIALITIES SHOWN IN UNIT 1 BUILDING HAVE THE PREFIX 1P54.
 5. THE SYMBOL  DENOTES THOSE NON-SAFETY PORTIONS OF THE SYSTEM WHERE THE AUGMENTED QUALITY ASSURANCE PROGRAM APPLIES.
 6. SECTION OF THE PIPE BETWEEN VALVES 0P54F6570 ON DRAWING 914-0001-00000 & 1P54F6365 INSIDE THE TURBINE BUILDING IS OUT OF SERVICE. REFERENCE: ECP-03-0184.

- REFERENCES:
- 302-0222-00000 TURBINE BUILDING CLOSED COOLING SYSTEM
 - 302-0242-00000 SERVICE AIR DISTRIBUTION SYSTEM
 - 914-0001-00000 FIRE SERVICE YARD AREA
 - 914-0003-00000 FIRE SERVICE WATER (NUCLEAR PLANT)
 - 914-0017-00000 FIRE SERVICE WATER DELUGE SYSTEMS TAGGING DATA
 - 914-0018-00000 FIRE SERVICE WATER-TURBINE POWER COMPLEX PLANS ABOVE EL. 568'-6" AND 593'-6"
 - 924-0051-00000 FIRE SERVICE WATER PRE-ACTION AND WET SYSTEMS TAGGING DATA

(REV. 22 10/2021)

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

FIRE SERVICE WATER
(UNIT 1, TURBINE AREA)
FIGURE 9.5-2
(DWG. D-914-0002-00000)



OPERATING DATA					
PSIG	OPM	F	BY	REMARKS	REV
125	2500	70			

DESIGN DATA								
PSIG	F	PSIG	F	TIME	BY	CHKD	REMARKS	REV
125	70	175	150					

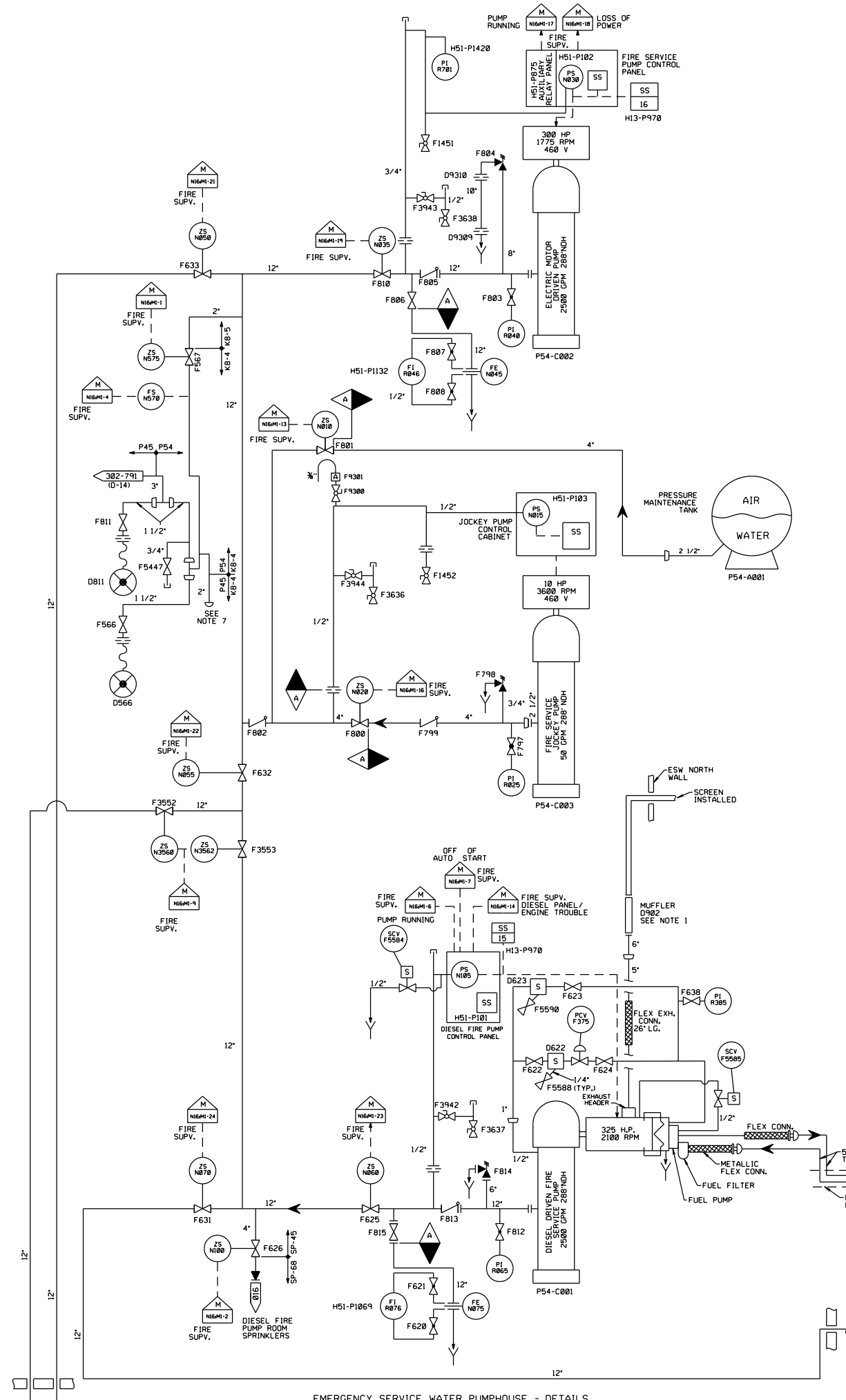
- NOTES:
1. ALL VALVES, INSTRUMENTS, AND SPECIALTIES SHOWN IN COMMON BUILDINGS HAVE THE PREFIX 'PSIG' UNLESS SHOWN OTHERWISE. ALL VALVES, INSTRUMENTS, AND SPECIALTIES SHOWN IN UNIT 1 BUILDINGS HAVE THE PREFIX 'IP54' UNLESS SHOWN OTHERWISE. ALL VALVES, INSTRUMENTS, AND SPECIALTIES SHOWN IN UNIT 2 BUILDINGS HAVE THE PREFIX '2P54'.
 2. PIPING INSTALLATION PER SPECIFICATIONS SP-45-4549-00. SP-81-4549-00 AND SP-81-4549-00 AS NOTED.
 3. THE SYMBOL DESIGNATES THOSE NON-SAFETY AREAS OF THE SYSTEM WHERE THE AUTOMATED QUALITY ASSURANCE PROGRAM REQUIREMENTS DEFINED IN SP-45 APPLY. THE INTERLOCKING INSTRUMENT AIR LINES ARE NOT PART OF THE DEFINED QUALITY ASSURANCE PROGRAM.
 4. FOR VALVE CHART, SEE DWG. 914-0012-00000.
 5. ALARM SIGNALS FROM VALVES AND FROM PANELS ARE RECEIVED AT THE FIRE COMPUTER DETECTION SYSTEM.
 6. COMPONENTS BEYOND THIS POINT ARE ABANDONED, RETIRED IN PLACE PER 1AF 81653.
 7. REACTOR BUILDING STANDPIPE SYSTEM PIPING INSIDE CONTAINMENT DURING OPERATIONAL MODES 2, 3 & 3 IS DRAINED UP TO THE OUTBOARD CONTAINMENT ISOLATION VALVE (IP40872A) & FILLED WITH NITROGEN GAS AT 1-5 PSIG TO PREVENT THERMAL OVERPRESSURIZATION.
 8. (BS) UNIT 1/2 BOUNDARY SEPARATION. FOR DETAILS SEE TAF 81653.
 9. (LB) LICENSE RENEWAL LEAKAGE BOUNDARY FOR ABANDONED. RETIRED IN PLACE SSC'S. FOR DETAILS SEE ECP 14-0485.
 10. (AS) ABANDONED SSC'S OUTSIDE THE SCOPE OF LICENSE RENEWAL CONFIGURATION CONTROL. NOT MAINTAINED FOR ABANDONED SSC'S IF INSTALLED OUTSIDE THE SCOPE OF LICENSE RENEWAL. FOR DETAILS SEE ECP 14-0485.
 11. (LB) LICENSE RENEWAL LEAKAGE BOUNDARY FOR ABANDONED. RETIRED IN PLACE SSC'S. FOR DETAILS SEE ECP 14-0485.
 12. (LB) LICENSE RENEWAL LEAKAGE BOUNDARY FOR ABANDONED. RETIRED IN PLACE SSC'S. FOR DETAILS SEE ECP 14-0485.
 13. (AS) ABANDONED SSC'S OUTSIDE THE SCOPE OF LICENSE RENEWAL CONFIGURATION CONTROL. NOT MAINTAINED FOR ABANDONED SSC'S IF INSTALLED OUTSIDE THE SCOPE OF LICENSE RENEWAL. FOR DETAILS SEE ECP 14-0485.
 14. COMPONENTS BEYOND THIS POINT ARE OUTSIDE THE SCOPE OF LICENSE RENEWAL.

(REV. 22 10/2021)

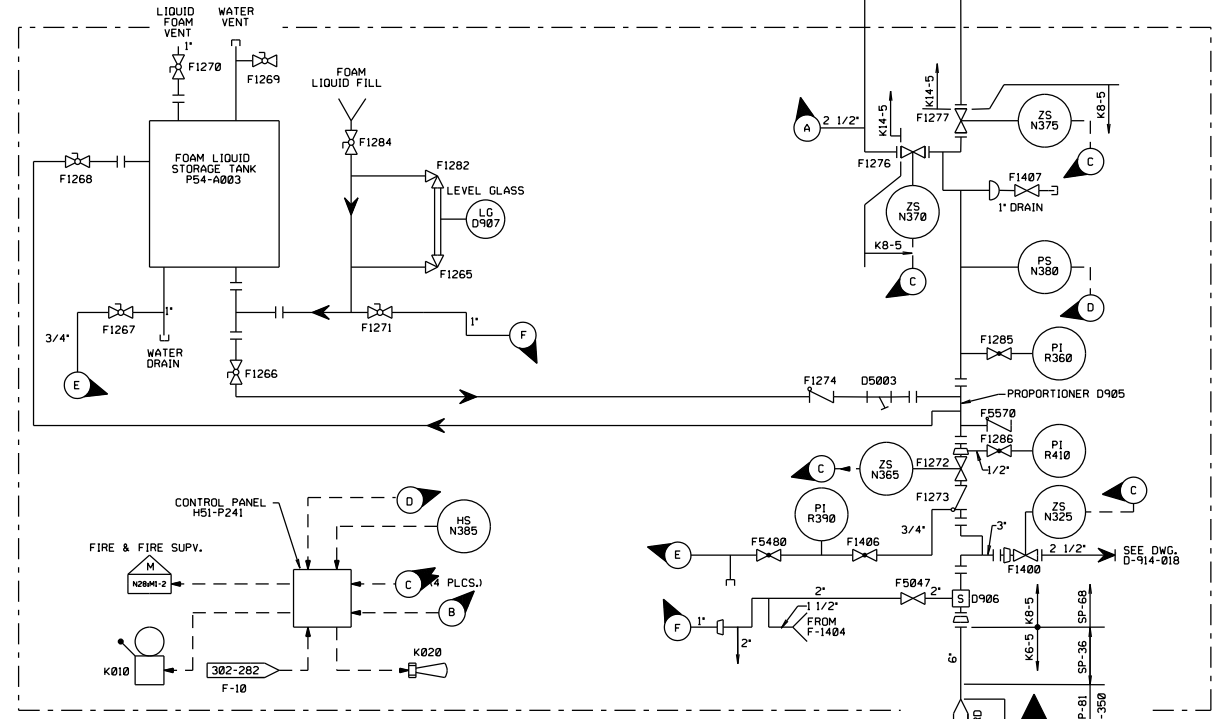
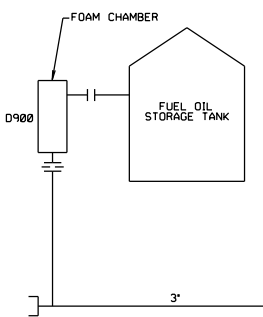
PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

FIRE SERVICE
WATER (NUCLEAR PLANT)
FIGURE 9.5-3
(DWG. D-914-0003-00000)

- REFERENCES:
- 382-8242-00000 SERVICE AIR DISTRIBUTION SYSTEM P51
 - 382-8792-00000 EMERGENCY SERVICE WATER SYSTEM P45
 - 914-0001-00000 FIRE SERVICE YARD AREA P54
 - 914-0002-00000 FIRE SERVICE WATER P54
 - 914-0010-00000 FIRE SERVICE WATER TECHNICAL SUPPORT CENTER SERVICE WELDING AND CONTROL COMPLEX P54
 - 914-0017-00000 FIRE SERVICE WATER DELUGE SYSTEMS TAGGING DATA P54
 - 914-0018-00000 FIRE SERVICE WATER PRE-ACTION AND WET SYSTEMS TAGGING DATA P54
 - 914-0051-00000 FIRE SERVICE WATER P54




EMERGENCY SERVICE WATER PUMPHOUSE - DETAILS



FUEL OIL AREA
FOAM FIRE EXTINGUISHING SYSTEM

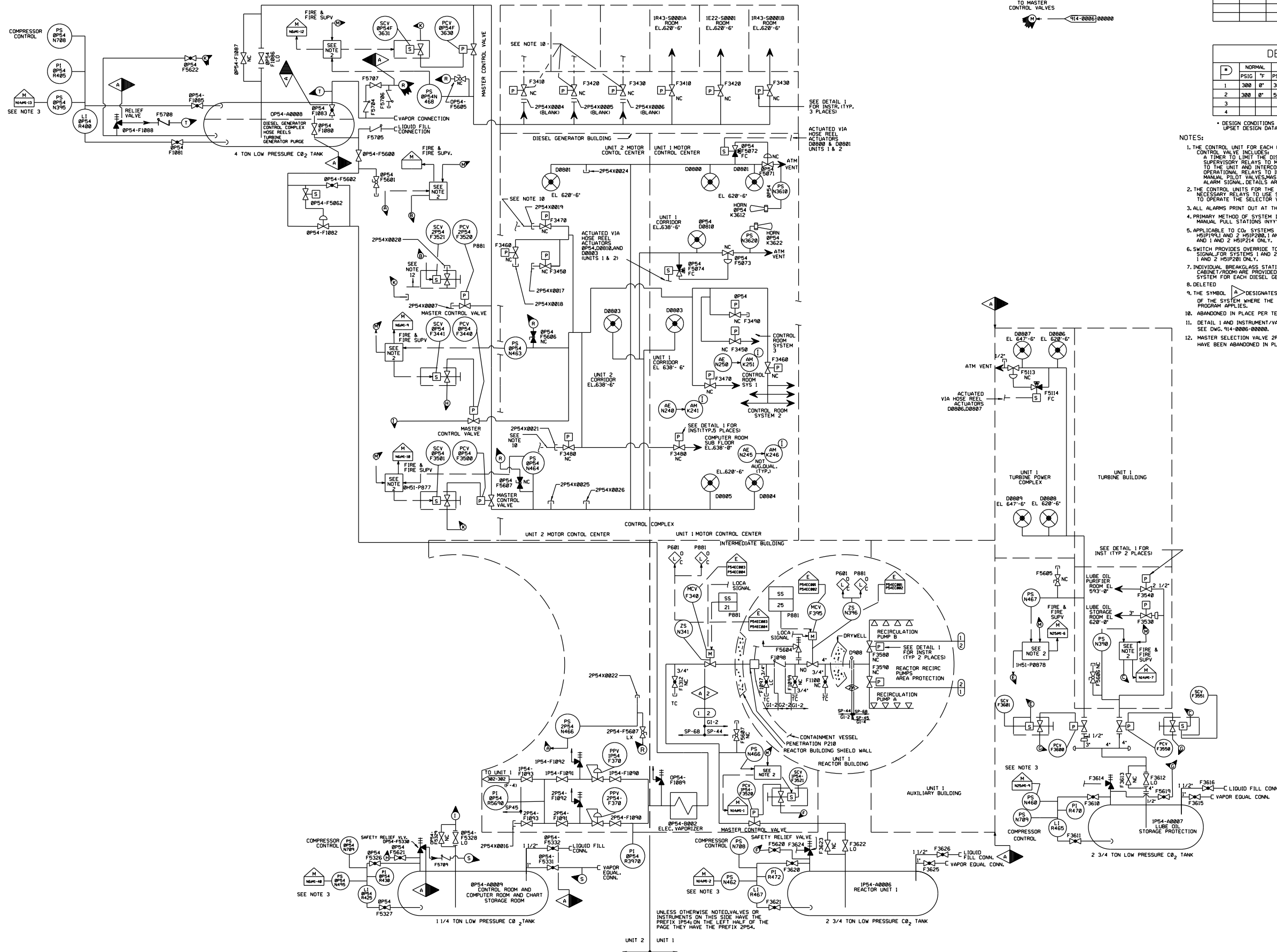
PIPING (FUEL OIL AREA) TO BE INSTALLED PER SP-68-4549-00 EXCEPT WHERE NOTED.

- NOTES:
1. THE MUFFLER IS TO BE LOCATED SO THAT THE LENGTH OF THE PIPE FROM THE ENGINE TO THE MUFFLER IS 1/2 THE LENGTH OF THE PIPE FROM THE MUFFLER TO THE OPEN END.
 2. NO MORE THAN 4 FT. OF UNSUPPORTED EXHAUST TUBING SHOULD BE ATTACHED TO ENGINE TO AVOID STRESSING COMPONENTS.
 3. UNLESS OTHERWISE NOTED, ALL VALVE, INSTRUMENT, AND SPECIALTY NO'S. SHOWN ON THIS DRAWING ARE PRECEDED BY THE PREFIX P54.
 4. SLOPE ALL LINES TO LOWPOINT DRAINS IN FOAM FIRE EXTINGUISHING SYSTEM.
 5. ALL ALARMS FROM VALVES AND PANELS ARE RECEIVED AT FIRE COMPUTER DETECTION SYSTEM.
 6. THE SYMBOL  DESIGNATES THOSE NON-SAFETY PORTIONS OF THE SYSTEM WHERE THE AUGMENTED QUALITY ASSURANCE PROGRAM APPLIES.
 7. PIPING BEYOND THIS LOCATION IS ABANDONED, RETIRED IN PLACE. SEE ECP 14-0951.

(REV. 22 10/2021)

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

FIRE PROTECTION
WATER MISCELLANEOUS SERVICES
FIGURE 9.5-4
(DWG. D-914-0004-00000)



OPERATING DATA						
PSIG	GPM	"F	BY	REMARKS	REV	
300	0"	0"				

DESIGN DATA							
PSIG	"F	PSIG	"F	TIME	BY	CHKD	REV
1	300	0"	300	0"			
2	300	0"	500	0"			
3							
4							

- NOTES:
1. THE CONTROL UNIT FOR EACH HAZARD AREA SELECTOR CONTROL VALVE INCLUDES:
 - A TIMER TO LIMIT THE DISCHARGE PERIOD
 - SUPERVISORY RELAYS TO MONITOR POWER SUPPLY TO THE UNIT AND INTERCONNECTING CIRCUITRY AND OPERATIONAL RELAYS TO INITIATE OPERATION OF THE ELECTRO-MANUAL PILOT VALVES/MANUAL VALVES AND INITIATE A FIRE ALARM SIGNAL. DETAILS ARE SHOWN ON VENDOR DWG.
 2. THE CONTROL UNITS FOR THE MASTER CONTROL VALVES HAVE NECESSARY RELAYS TO USE SELECTOR VALVE CONTROL UNIT SIGNALS TO OPERATE THE SELECTOR VALVES. DETAILS SHOWN ON VENDOR DWG.
 3. ALL ALARMS PRINT OUT AT THE FIRE COMPUTER DETECTION SYSTEM.
 4. PRIMARY METHOD OF SYSTEM INITIATION SHALL BE BY THE LOCAL MANUAL PULL STATIONS IN YYY116.
 5. APPLICABLE TO CO₂ SYSTEMS ASSOCIATED WITH PANELS 1 AND 2 H51P191 AND 2 H51P200, 1 AND 2 H51P201, 1 AND 2 H51P213 AND 1 AND 2 H51P214 ONLY.
 6. SWITCH PROVIDES OVERRIDE TO INADVERTENT CO₂ HVAC FAN TRIP SIGNAL FOR SYSTEMS 1 AND 2 H51P199, 1 AND 2 H51P200, AND 1 AND 2 H51P201 ONLY.
 7. INDIVIDUAL BREAKGLASS STATIONS (ELECTRO-MANUAL PILOT CABINET/ROOM) ARE PROVIDED FOR MANUAL INITIATION OF THE CO₂ SYSTEM FOR EACH DIESEL GENERATOR ROOM.
 8. DELETED
 9. THE SYMBOL DESIGNATES THOSE NON-SAFETY PORTIONS OF THE SYSTEM WHERE THE AUGMENTED QUALITY ASSURANCE PROGRAM APPLIES.
 10. ABANDONED IN PLACE PER TECHNICAL ASSIGNMENT FILE B1653.
 11. DETAIL 1 AND INSTRUMENT/VALVE CROSS REFERENCE TABLE SEE DWG. 914-0005-00000.
 12. MASTER SELECTION VALVE 2P54F3521 AND PANEL 2H51P0216 HAVE BEEN ABANDONED IN PLACE PER ECP 12-0017.

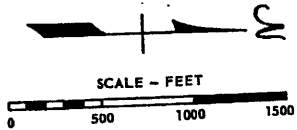
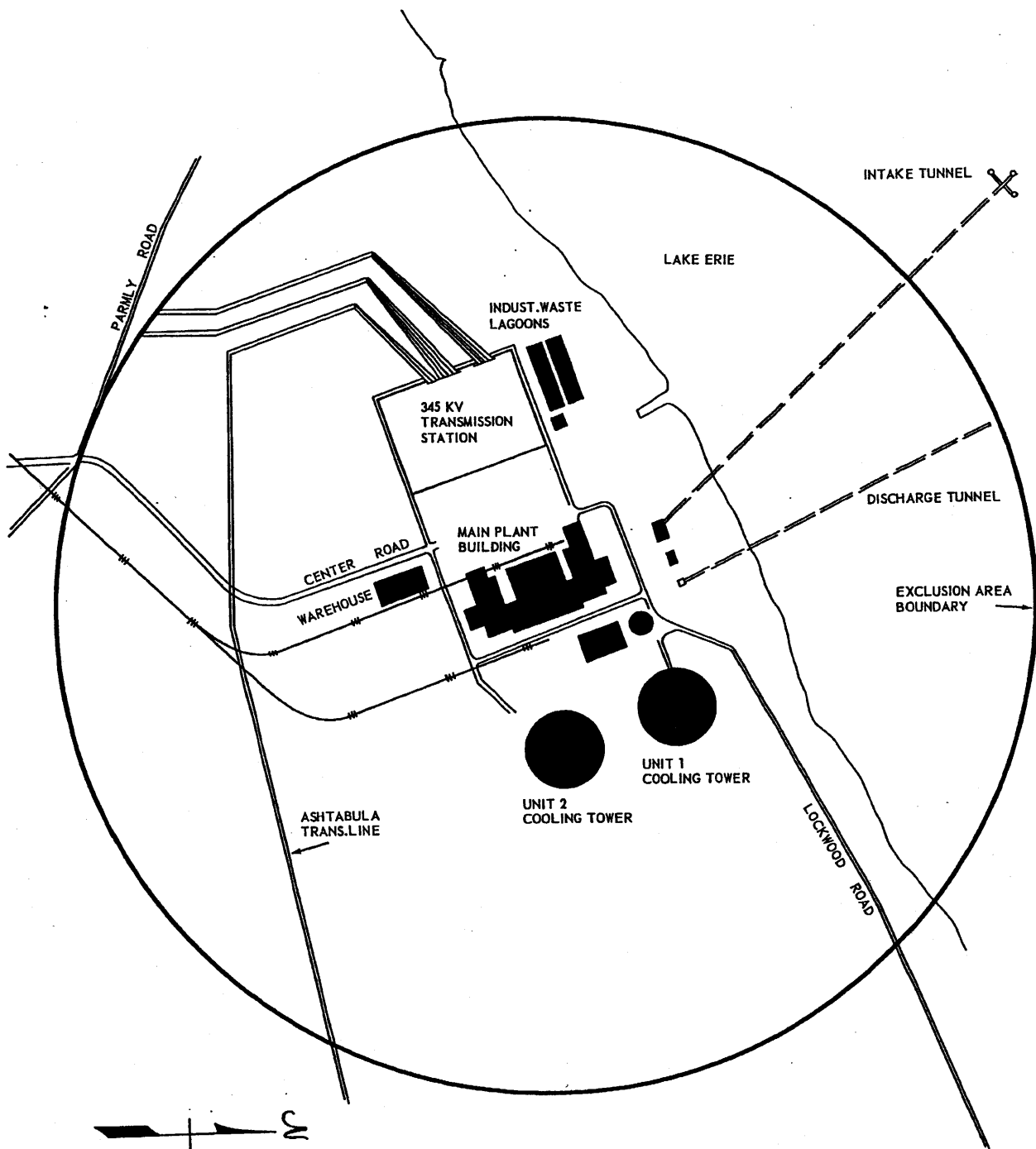
(REV. 22 10/2021)

PERRY NUCLEAR POWER PLANT
 10 CENTER RD., PERRY, OHIO 44081

CARBON DIOXIDE SYSTEM

FIGURE 9.5-5
 (DWG. D-914-0005-00000)

UNLESS OTHERWISE NOTED, VALVES OR INSTRUMENTS ON THIS SIDE HAVE THE PREFIX 1P54 ON THE LEFT HALF OF THE PAGE THEY HAVE THE PREFIX 2P54.



(Rev. 12 1/03)



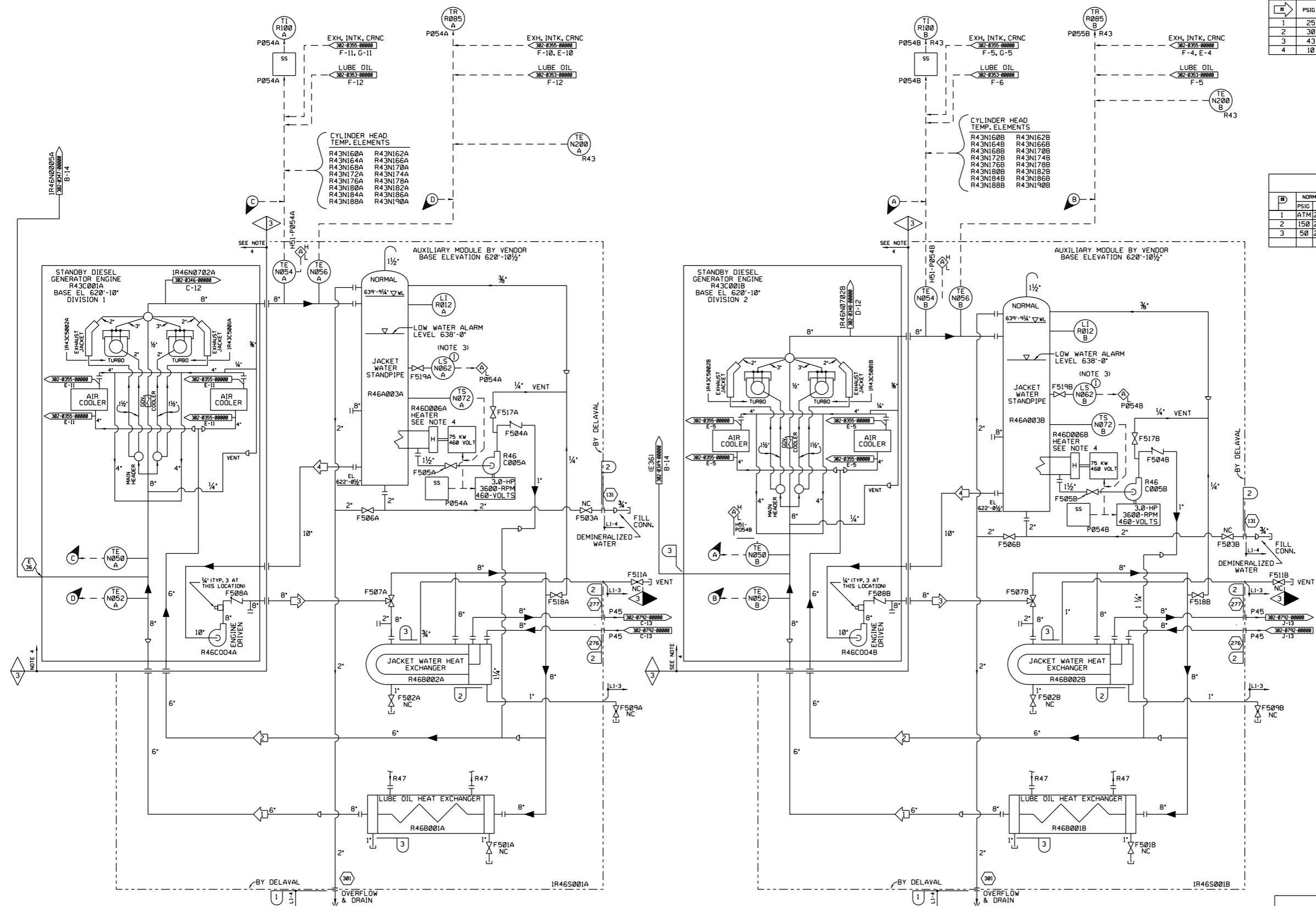
PERRY NUCLEAR POWER PLANT

Exclusion Area, Boundary Layout

Figure 9.5-7

OPERATING DATA						
SEE NOTE 6						
LINE	PSIG	GPM	°F	BY	REMARKS	REV
1	25	900	155	JAB		
2	30	900	148	JAB		
3	43	1800	168	MLC	NOTE 5	A
4	10	1800	168	MLC	NOTE 5	A

DESIGN DATA						
ID	NORMAL PSIG	UPSET PSIG	F TIME	BY	CHKD	REMARKS
1	ATM	200	N/A	JAB	JN	
2	150	200	N/A	JAB	JN	
3	50	200	N/A			



- REFERENCES:
- 09-810-75051 DELAVAL PIPING SCHEMATIC
 - 09-595-75051 ENGINE PNEUMATIC SCHEMATIC
 - 09-500-75051 CONTROL PANEL SCHEMATIC
 - 09-688-75051 ENGINE AND SKID ELECTRICAL SCHEMATIC
 - 302-0792-00000 EMERGENCY SERVICE WATER SYSTEM P45
 - 302-0353-00000 STANDBY DIESEL GENERATOR LUBE OIL R47
 - 302-0355-00000 HPCS & STANDBY DIESEL GENERATOR EXHAUST, INTAKE & CRANKCASE R40/E22
 - 302-0346-00000 STANDBY DIESEL ENGINE MOUNTED PIPING IR43C001A DIV. 1 IR34
 - 302-0347-00000 STANDBY DIESEL ENGINE CONTROL PANEL IR43C001A DIVISION 1 IR43
 - 302-0348-00000 STANDBY DIESEL ENGINE MOUNTED PIPING IR43C001B DIVISION 2 IR43
 - 302-0349-00000 STANDBY DIESEL ENGINE CONTROL PANEL IR43C001B DIVISION 2 IR43

- NOTES:
- DELETED
 - DELETED
 - LS N062A AND B MUST BE LOCATED 35" BELOW CENTER LINE OF JACKET WATER INLET FLANGE ON STANDPIPE.
 - SAFETY RELATED, NON-ASME.
 - JACKET WATER OPERATING TEMPERATURE RANGE IS 150°F TO 160°F.
 - PROCESS DATA SHOWN IN THE OPERATING DATA TABLE ON THIS SYSTEM DIAGRAM SHALL BE USED IN CONJUNCTION WITH THE DESIGN BASIS INFORMATION AND SHALL BE USED WITH CAUTION. IN GENERAL, THE OPERATING DATA (PRESSURES, TEMPERATURES, AND FLOWS) PROVIDED ON THIS DRAWING, REPRESENTS THE MOST COMMON OPERATING CONDITION AND/OR SYSTEM MODE OF OPERATION AND/OR LINEUP. TO DETERMINE THE REQUIRED VALUES FOR A SPECIFIC OPERATING CONFIGURATION, THE APPROPRIATE DESIGN DOCUMENTS NEED TO BE REVIEWED.


(REV. 22 10/2021)

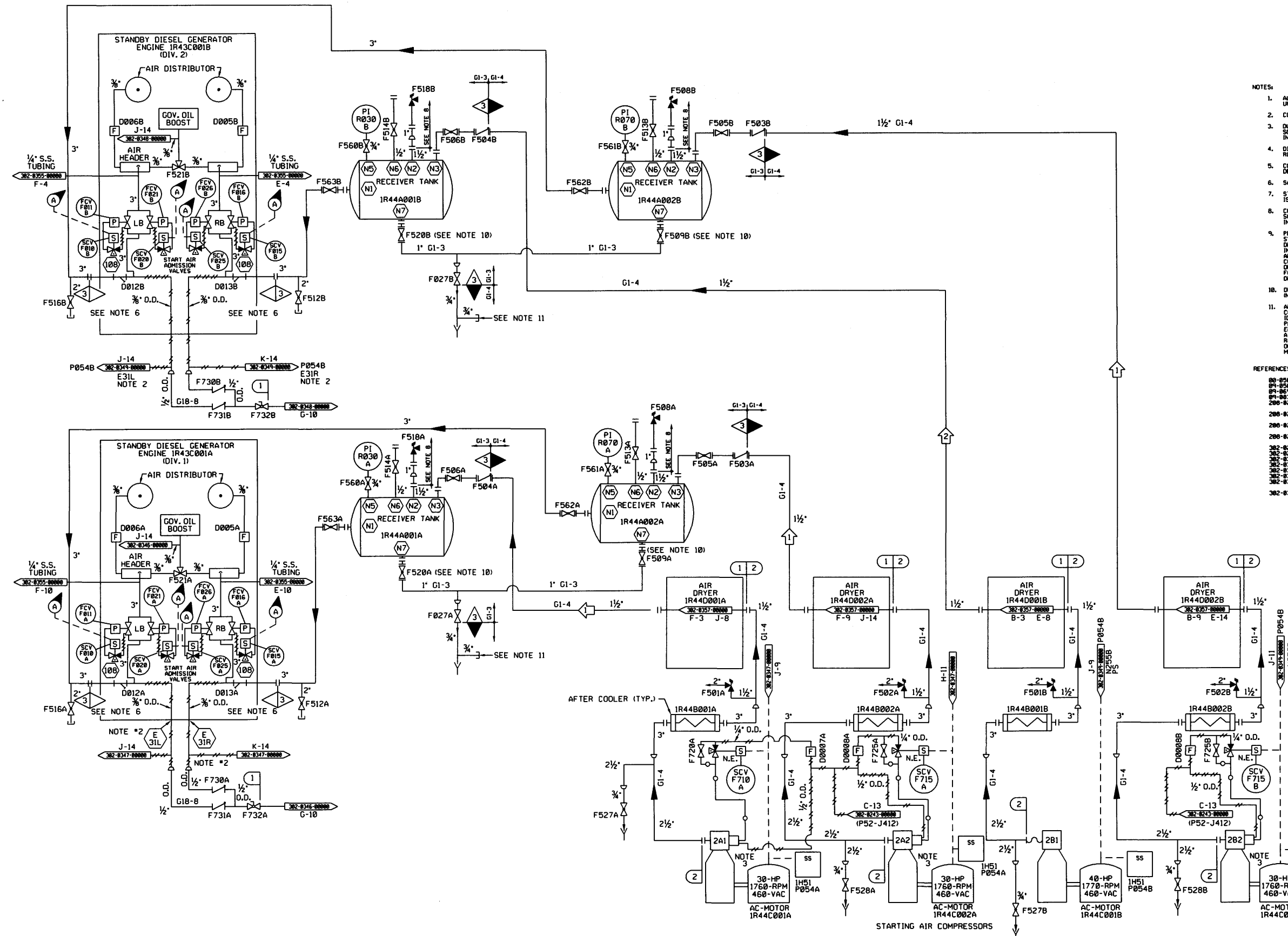
PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

STANDBY DIESEL
GENERATOR, JACKET WATER
FIGURE 9.5-9
(DWG. D-302-0354-00000)

OPERATING DATA						
SEE NOTE 9						
#	CFM	PSIA	'F	BY	REMARKS	REV
1	84	250	122'			
2	87	250	122'			

DESIGN DATA						
#	NORMAL	LPSET	BY	CHKD	REMARKS	REV
PSIG	F	PSIG	F	TIME		
1	275	150	-	-	JN	
2	300	150	-	-		


 DIV. 1 208-0216-00005 & 00007
 DIV. 2 208-0216-00006 & 00008
 DIESEL START SIGNAL
 8 PLACES

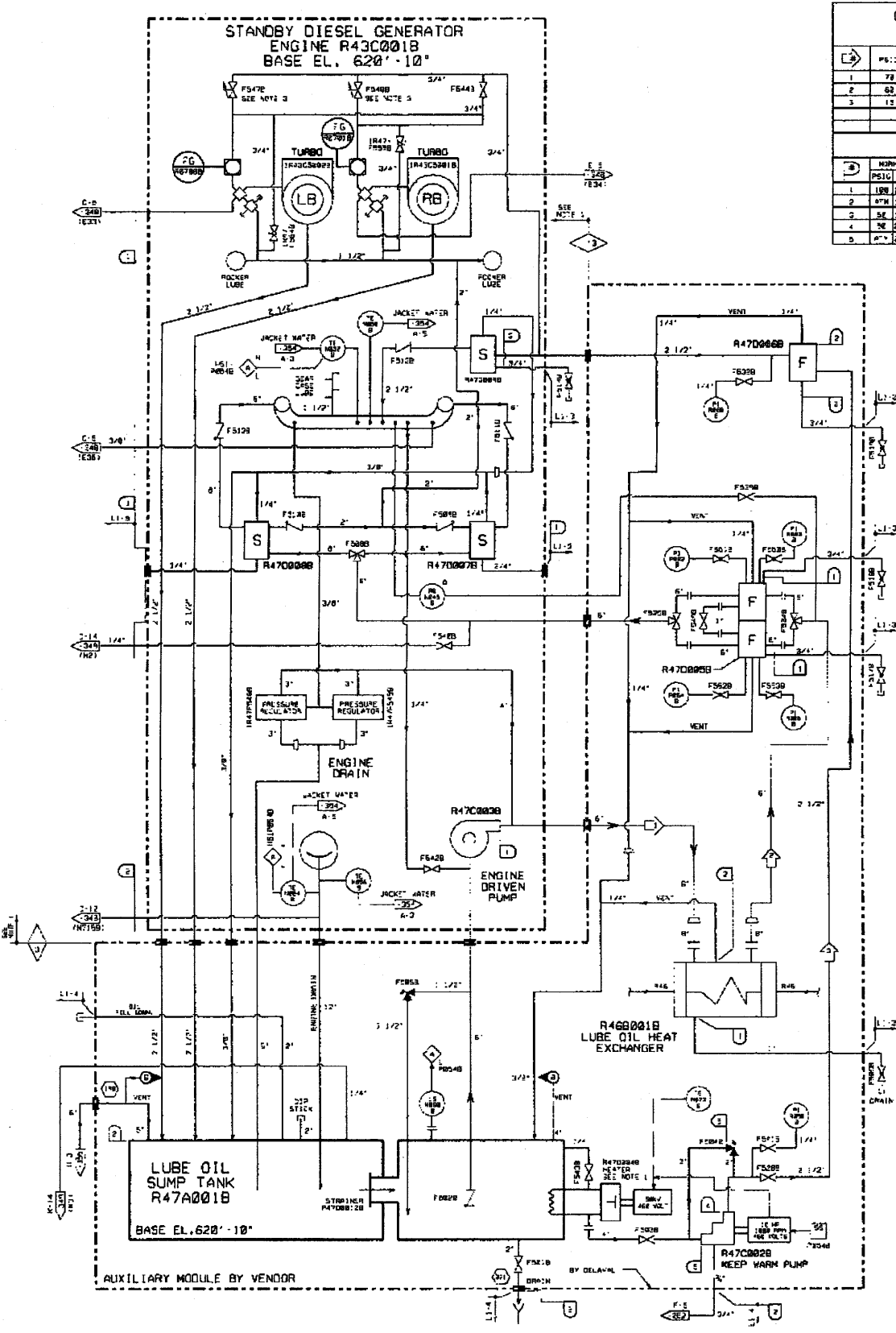
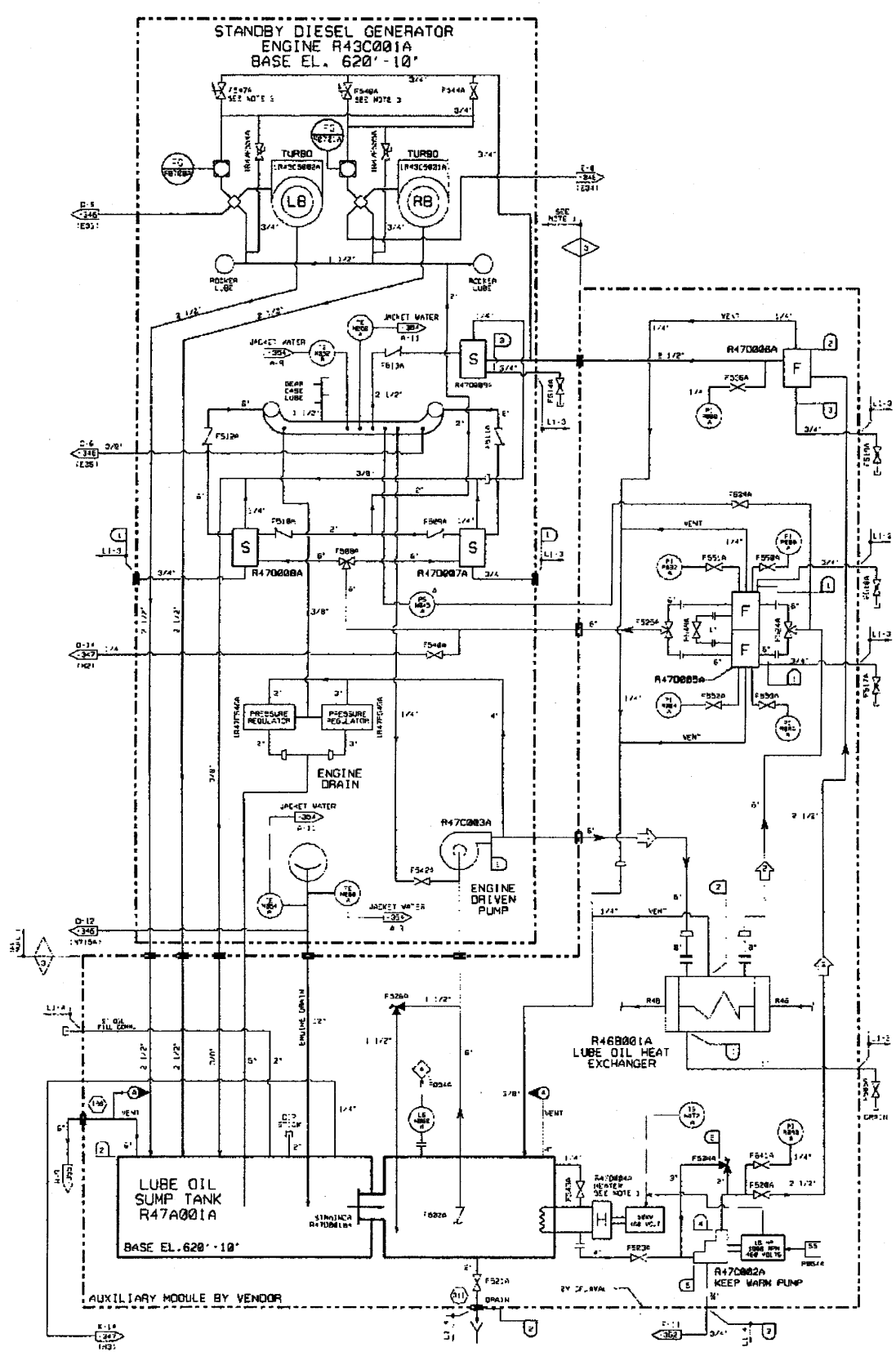


- NOTES:
- ALL PIPING SHALL BE AS PER LINE SPECIFICATION G1-3 UNLESS OTHERWISE NOTED.
 - CONNECTIONS ON ENGINE PNEUMATIC BULKHEAD.
 - DUAL CONTROL COMPONENT CONTAINS PRESSURE SWITCH, SCALE TRIP, PLUS BOOSTER AND RELAY VALVE. FOR INSTALLATION, SEE VENDOR DRAWING.
 - DIESEL GENERATOR GENERAL TROUBLE ALARM IN CONTROL ROOM.
 - COMPONENTS ON THE DIESEL GENERATOR SKID ARE DESIGNED TO DEMA STANDARDS.
 - SAFETY RELATED, NON-ASME DIESEL MFR'S STANDARD.
 - STARTING AIR SYSTEM FOR HPCS DIESEL GENERATOR IS SHOWN ON SYSTEM DIAGRAM 302-0350-00000.
 - CONFORMS TO LINE SPECIFICATION G1-3 EXCEPT FOR SUBSTITUTION OF 3000* SOCKET WELDING REDUCING INSERTS IN LIEU OF 6000* INSERTS.
 - PROCESS DATA SHOWN IN THE OPERATING DATA TABLE ON THIS SYSTEM DIAGRAM SHALL BE USED IN CONJUNCTION WITH THE DESIGN BASIS INFORMATION AND SHALL BE USED WITH CAUTION. IN GENERAL, THE OPERATING DATA (PRESSURES, TEMPERATURES, AND FLOWS) PROVIDED ON THIS DRAWING REPRESENTS THE MOST COMMON OPERATING CONDITION AND/OR SYSTEM MODE OF OPERATION AND/OR LINEUP. TO DETERMINE THE REQUIRED VALUES FOR A SPECIFIC OPERATING CONFIGURATION, THE APPROPRIATE DESIGN DOCUMENTS NEED TO BE REVIEWED.
 - DRAIN VALVES ARE CLASS 300 STAINLESS STEEL (NON G1-3 PLS).
 - AN ALTERNATE AIR SUPPLY SOURCE (I.E. TEMPORARY AIR COMPRESSOR) FOR THE R44 SYSTEM MEETING THE REQUIREMENTS IDENTIFIED IN ECP 13-0509 AND INSTALLED PER MAINTENANCE PLAN 210677 CAN BE CONNECTED TO THE R44 SYSTEM AT THE END OF THE RECEIVER TANK DRAIN LINE. AN ALTERNATE BACKUP AIR COMPRESSOR CAN BE USED PER 501-R44 TO RECHARGE THE R44 RECEIVER TANK(S) IN SITUATIONS WHERE BOTH COMPRESSORS ON A GIVEN DIVISION BECOME UNAVAILABLE DUE TO SYSTEM MAINTENANCE AND/OR DEGRADED PERFORMANCE.

- REFERENCES:
- 00-0500-75001 CONTROL PANEL INSTALLATION
 - 00-0500-75001 DELAVAL CONTROL PANEL SCHEMATIC
 - 00-0500-75001 DELAVAL ENGINE PNEUMATIC SCHEMATIC
 - 00-0500-75001 DELAVAL STARTING AIR PIPING SCHEMATIC
 - 208-0216-00005 STANDBY DIESEL ENGINE CONTROL PANEL
 - 208-0216-00006 IHS1-P054A - DIVISION 1 IR43-C001A
 - 208-0216-00006 IHS1-P054B - DIVISION 2 IR43-C001B
 - 208-0216-00007 IHS1-P054A - DIVISION 1 IR43-C001A
 - 208-0216-00007 IHS1-P054B - DIVISION 2 IR43-C001B
 - 302-0242-00000 SERVICE AIR DISTRIBUTION DIAGRAM
 - 302-0243-00000 INSTRUMENT AIR
 - 302-0346-00000 STANDBY DIESEL ENGINE MOUNTED PIPING
 - 302-0347-00000 STANDBY DIESEL - ENGINE CONTROL PANEL
 - 302-0348-00000 STANDBY DIESEL - ENGINE MOUNTED PIPING
 - 302-0349-00000 STANDBY DIESEL - ENGINE CONTROL PANEL
 - 302-0350-00000 HPCS AND STANDBY DIESEL GENERATOR EXHAUST, INTAKE AND CRANKCASE
 - 302-0357-00000 DIV. 1 & DIV. 2 DIESEL AIR DRYER DIAGRAMS IR44-0001A & B AND IR44-0002A & B

(REV. 19 10/2015)

PERRY NUCLEAR POWER PLANT
 10 CENTER RD., PERRY, OHIO 44081
 PIPING SYSTEM DIAGRAM,
 R-44, STANDBY DIESEL
 GENERATOR STARTING AIR
 FIGURE 9.5-10
 (DWG. D-302-0351-00000)



OPERATING DATA						
SEE NOTE 2						
REV	PSI	SPM	BY	REMARKS	REV	
1	78	532	JHB			
2	60	532	JHD			
3	12	48	JHB			

DESIGN DATA						
REV	NORMAL	URGET	BY	CHKD	REV	
PSIG	PSIG	PSIG				
1	150	150	JHB	JHB		
2	87M	150	JHB	JHB		
3	52	150	JHB	JHB		
4	52	150	JHB	JHB		
5	52	150	JHB	JHB		

- REFERENCES:
- 24-810-7850: DELTA PIPING SCHEMATIC
 - 24-810-7865: ENGINE PNEUMATIC SCHEMATIC
 - 24-810-7883: CONTROL PANEL SCHEMATIC
 - 24-810-7885: ENGINE AND SUMP ELECTRICAL SCHEMATIC
 - 382-824-8888: STANDBY DIESEL GENERATOR JACKET WATER P&ID

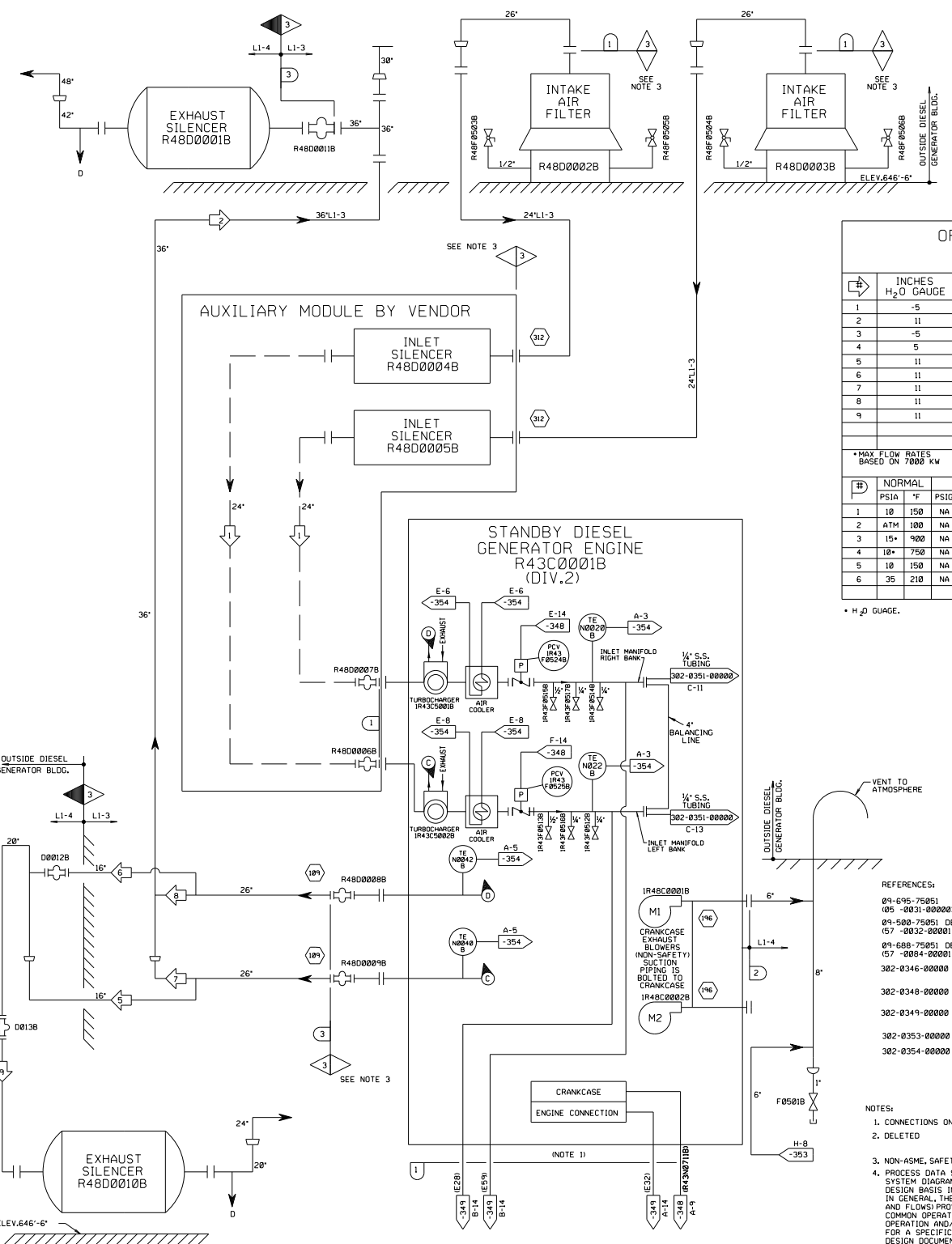
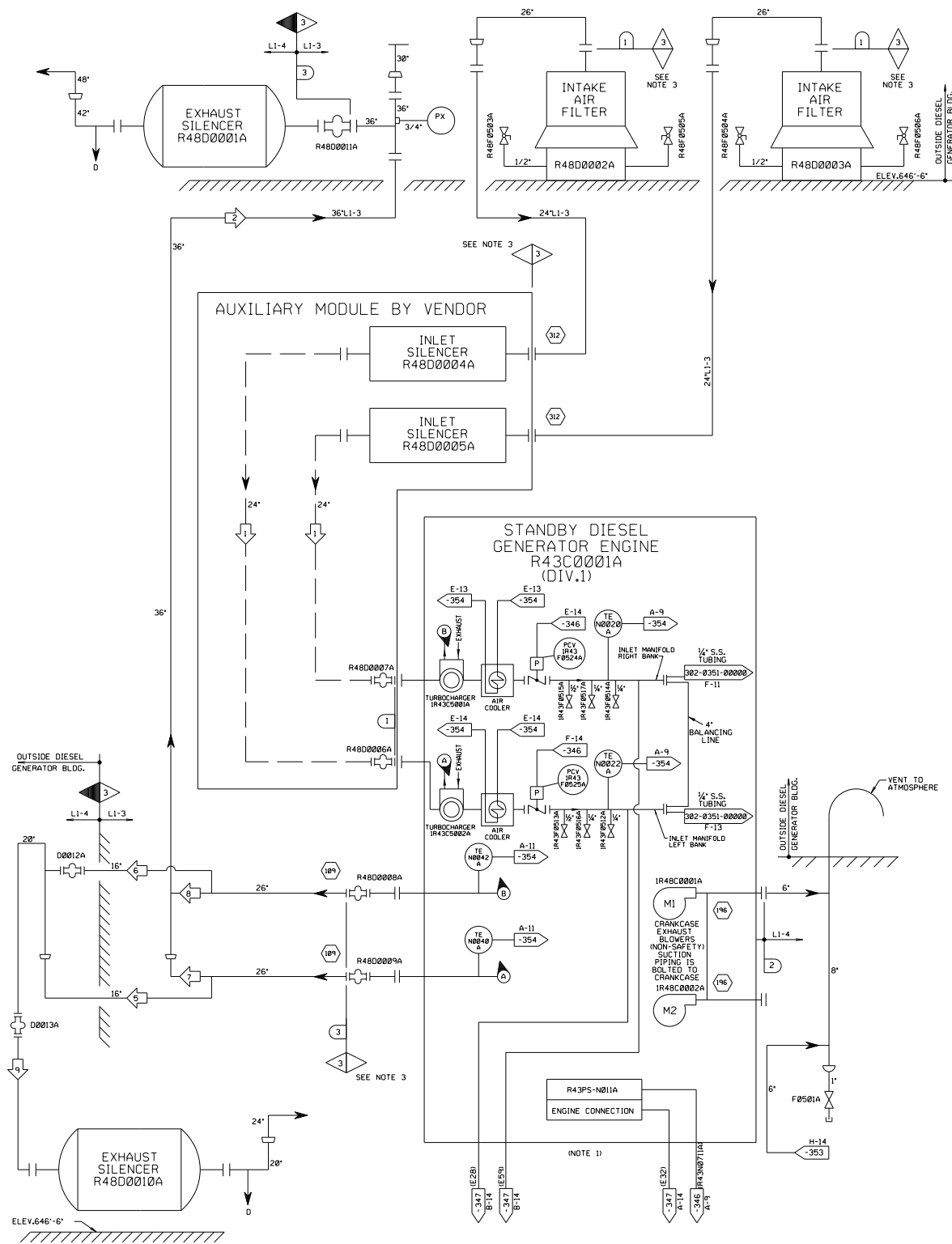
- NOTES:
- SAFETY RELATED NON-ASME.
 - PROCESS DATA SHOWN IN THE OPERATING DATA TABLE ON THIS SHEET SHOULD BE USED IN CONJUNCTION WITH THE DESIGN BASIS INFORMATION AND SHALL BE USED WITH CAUTION. IN GENERAL, THE OPERATING DATA APPLICABLE TO OPERATIONS AND PROVIDED ON THIS DRAWING REPRESENTS THE MOST COMMON OPERATING CONDITION AND/OR SYSTEM MODE BY DESIGN AND UNLESS OTHERWISE SPECIFIED, THE REQUIRED VALUES FOR A SPECIFIC OPERATING CONDITION, THE APPROPRIATE DESIGN CONDITIONS, ARE TO BE DERIVED.
 - VALVE IS THROTTLED TO PRESET CONDITIONS.

(Rev. 14 10/05)



Standby Diesel Generator,
Lube Oil

Figure 9.5-11
(Dwg. D-302-353)



OPERATING DATA
SEE NOTE 4

#	INCHES H ₂ O GAUGE	ACFM	SCFM	°F	REMARKS
1	-5	14,078	104		SCFM
2	11	+55,700	850		ACFM
3	-5	18,780	104		ACFM
4	5	23,800	735		ACFM
5	11	+4,400	850		ACFM
6	11	+10,000	850		ACFM
7	11	+30,500	850		ACFM
8	11	+25,200	850		ACFM
9	11	+20,200	850		ACFM

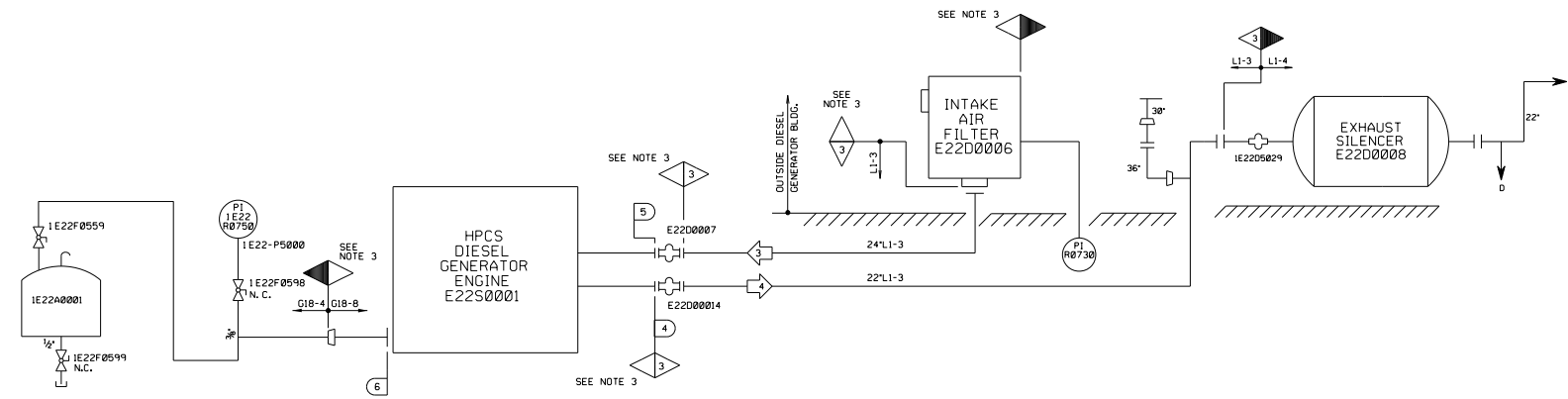
* MAX FLOW RATES BASED ON 7000 kW

DESIGN DATA

#	NORMAL	UPSET	REMARKS			
	PSIA	°F	PSIG	°F	T	
1	10	150	NA	NA	NA	
2	ATM	100	NA	NA	NA	
3	15	900	NA	NA	NA	* 26 USED FOR STRUCTURAL ANALYSIS OF PIPING
4	18	750	NA	NA	NA	
5	10	150	NA	NA	NA	
6	35	210	NA	NA	NA	

* H₂O GAUGE.

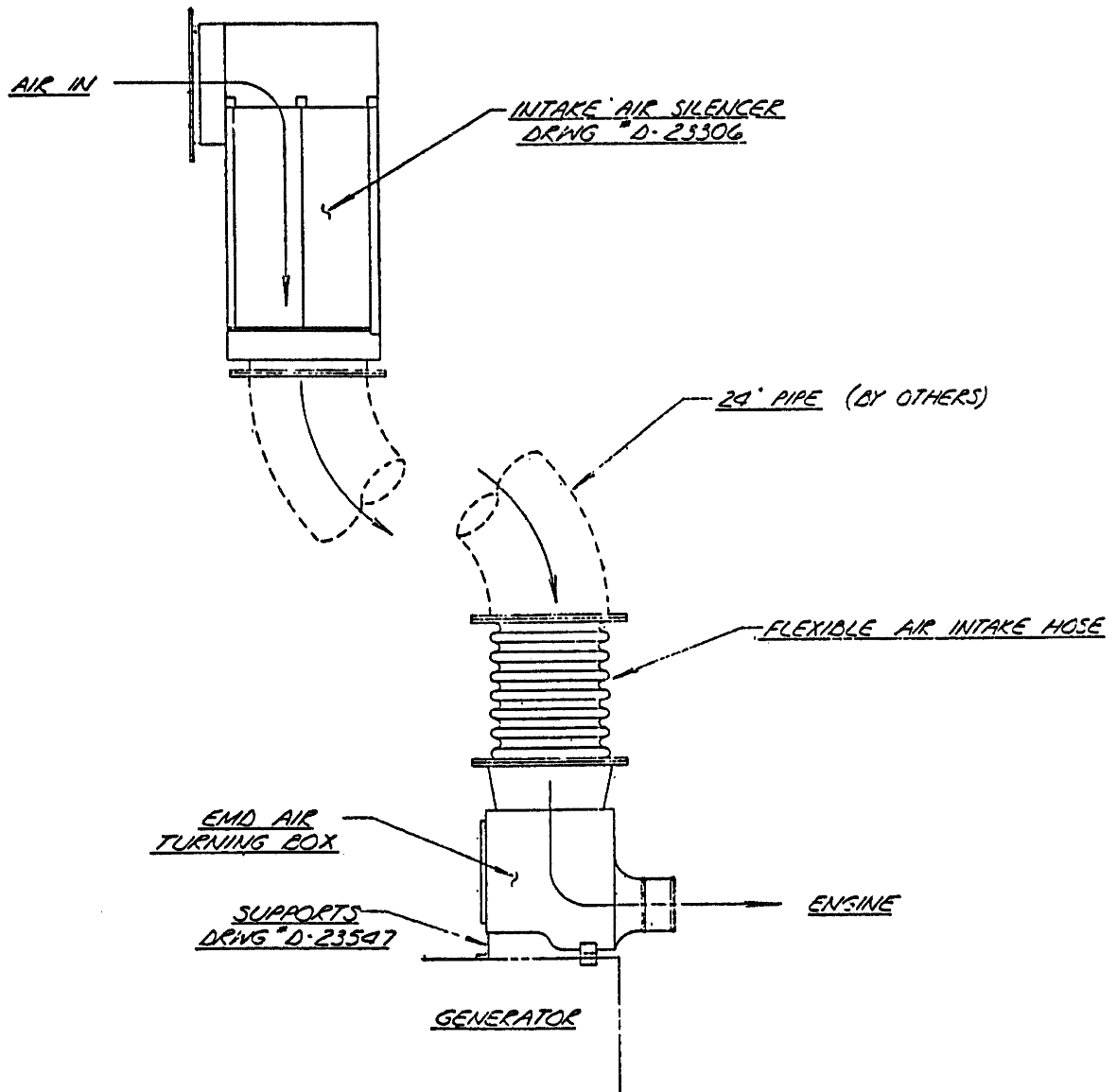
- REFERENCES:
- 09-695-75051 DELAYAL ENGINE PNEUMATIC SCHEMATIC (05 -0031-00000)
 - 09-500-75051 DELAYAL CONTROL PANEL SCHEMATIC (57 -0032-00001 THRU 57 -0032-00010)
 - 09-688-75051 DELAYAL ENGINE AND SKID ELECTRICAL SCHEMATIC (57 -0084-00001 THRU 57 -0084-00003)
 - 302-0346-00000 STAND-BY DIESEL ENGINE MOUNTED PIPING (DIVISION I) IR43C0001A
 - 302-0348-00000 STAND-BY DIESEL ENGINE MOUNTED PIPING (DIVISION II) IR43C0001B
 - 302-0349-00000 STAND-BY DIESEL ENGINE CONTROL PANEL (DIVISION II) IR43P0054B
 - 302-0353-00000 STAND-BY DIESEL GENERATOR LUBE OIL
 - 302-0354-00000 STAND-BY DIESEL GENERATOR JACKET WATER
- NOTES:
1. CONNECTIONS ON ENGINE PNEUMATIC BULKHEAD.
 2. DELETED
 3. NON-ASME, SAFETY RELATED - DIESEL MFR. STANDARDS.
 4. PROCESS DATA SHOWN IN THE OPERATING DATA TABLE ON THIS SYSTEM DIAGRAM SHALL BE USED IN CONJUNCTION WITH THE DESIGN BASIS INFORMATION AND SHALL BE USED WITH CAUTION. IN GENERAL, THE OPERATING DATA, PRESSURES, TEMPERATURES, AND FLOWS PROVIDED ON THIS DRAWING, REPRESENTS THE MOST COMMON OPERATING CONDITION, AND/OR SYSTEM MODE OF OPERATION AND/OR LINEUP, TO DETERMINE THE REQUIRED VALUES FOR A SPECIFIC OPERATING CONFIGURATION, THE APPROPRIATE DESIGN DOCUMENTS NEED TO BE REVIEWED.
 5. DELETED



(REV. 20 10/2017)

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

STANDBY DIESEL GENERATOR EXHAUST,
INTAKE AND CRANKCASE
FIGURE 9.5-12
(DWG. D-302-0355-00000)



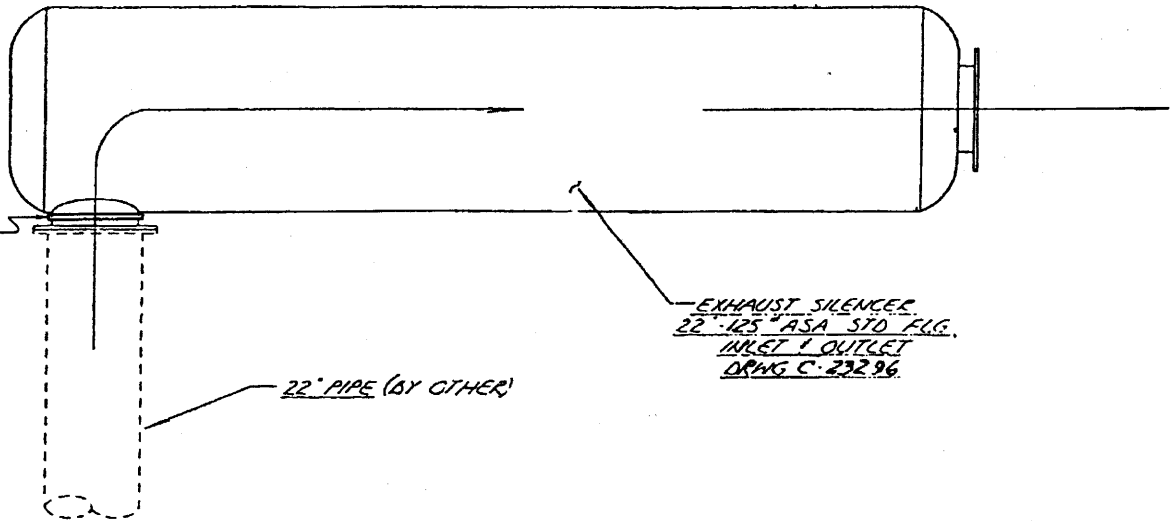
(Rev. 18 10/13)

PERRY NUCLEAR POWER PLANT
 10 CENTER RD., PERRY, OHIO 44081

G.E. Intake Air System 2600 kW
 Generator Set

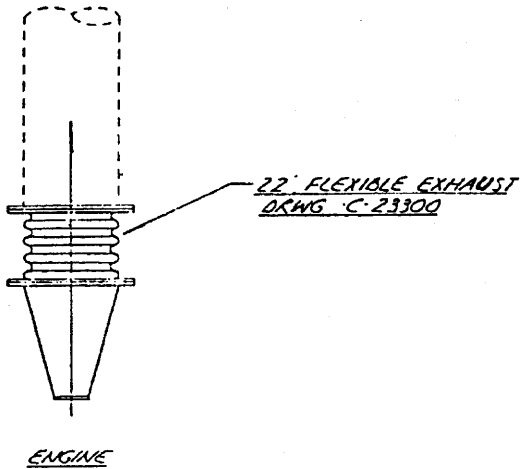
Figure 9.5-13

BREAKABLE
EXPANSION
JOINT
1E22D5029



22" PIPE (BY OTHER)

EXHAUST SILENCER
22" - 125" ASA STD. FIG.
INLET / OUTLET
DRWG. C. 23296



22" FLEXIBLE EXHAUST
DRWG. C. 23300

ENGINE

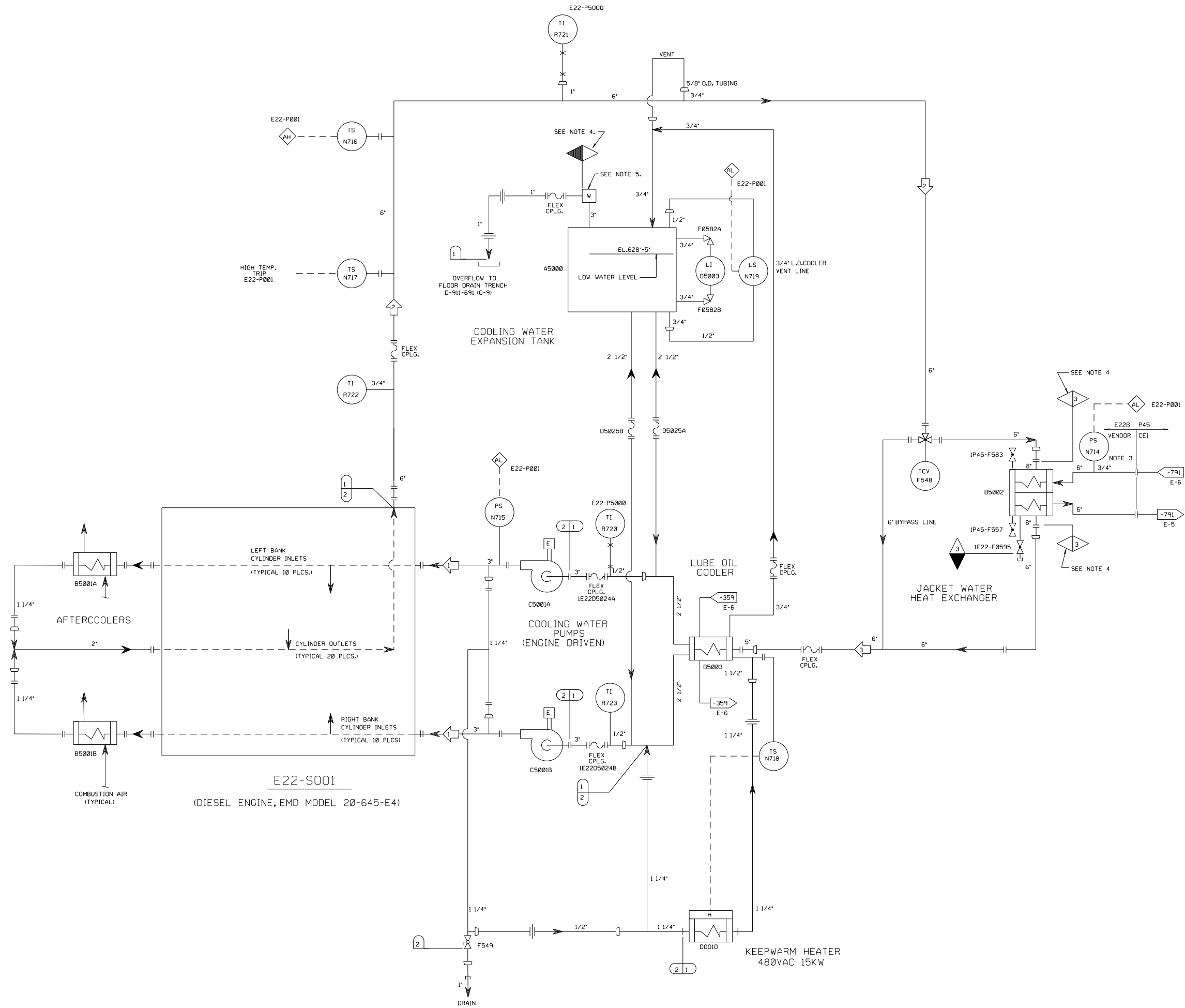
(Rev. 14 10/05)



PERRY NUCLEAR POWER PLANT

G.E. Exhaust Air System 2600 kW
Generator Set

Figure 9.5-14



OPERATING DATA						
SEE NOTE 6						
#	PSIG	GPM	*F	BY	REMARKS	REV
1	55	550	165	MLC		-
2	5	1100	175	MLC		-
3	2	1100	165	MLC		-

DESIGN DATA								
#	NORMAL PSIG	NORMAL *F	UPSET PSIG	UPSET *F	TIME	BY	CHKD	REV
1	5	190	5	200	-	MLC		-
2	70	190	70	200	-	MLC		-

REFERENCES:
 302-0001-00000
 302-0791-00000
 302-0359-00000

- NOTES:
1. DIAGRAM AS SHOWN ON THIS DRAWING HAS BEEN DEVELOPED/ REFORMATED FROM STEWART & STEVENSON DWG. NO. 23305, AND G.E. DWG. NO. 945E419.
 2. FOR VALVE/PIPING/COMPONENT MATERIAL SPECIFICATION DETAILS REFER TO STEWART & STEVENSON INSTRUCTION AND PARTS MANUAL FOR 2600 KW GENERATOR SET (FILE 239-G).
 3. REFER TO VALVE LINE-UP DIAGRAM FOR ASSOCIATED VALVE MPL NOS.
 4. NON-ASME, SAFETY RELATED DIESEL MANUFACTURER'S STD.
 5. [W] INDICATES AUTOMATIC WATER/VAPOR PRESSURE RELIEF DEVICE (FILLER/RELIEF CAP). CAP RELIEF SETPOINT IS 4 PSIG.
 6. PROCESS DATA SHOWN IN THE OPERATING DATA TABLE ON THIS SYSTEM DIAGRAM SHALL BE USED IN CONJUNCTION WITH THE DESIGN BASIS INFORMATION AND SHALL BE USED WITH CAUTION. IN GENERAL, THE OPERATING DATA (PRESSURES, TEMPERATURES, AND FLOWS) PROVIDED ON THIS DRAWING, REPRESENTS THE MOST COMMON OPERATING CONDITION, AND/OR SYSTEM MODE OF OPERATION AND/OR LINEUP. TO DETERMINE THE REQUIRED VALUES FOR A SPECIFIC OPERATING CONFIGURATION, THE APPROPRIATE DESIGN DOCUMENTS NEED TO BE REVIEWED.

(REV. 20 10/2017)

PERRY NUCLEAR POWER PLANT
 10 CENTER RD., PERRY, OHIO 44081

DIVISION 3 DIESEL JACKET
 WATER COOLING SYSTEM DIAGRAM
 FIGURE 9.5-16
 (DWG. D-302-0360-00000)

OPERATING DATA (NORMAL)

SEE NOTE 4

#	HR	PSIG	°F	BY	REMARKS	BY
1	42610	173	376	KE	BOTH UNITS RUNNING	D
2	0	0	0			D
3	105783	240	227	KE	INTERMITTENT	D
4	0	0	0	AA		D
5	1250	175	377	AA		D
6	0	0	0	AA		D

OPERATING DATA (UNITS DOWN)

SEE NOTE 4

#	HR	PSIG	°F	BY	REMARKS	BY
1	100,000	165	373	KE	MAX. DESIGN	D
2	100,000	165	373	KE	MAX. DESIGN	D
3	105783	240	227	AA	MAX. DESIGN	D
4	105783	240	227	KE	MAX. DESIGN	D
5	1250	175	377	AA		D
6	1250	175	377	AA		D

DESIGN DATA

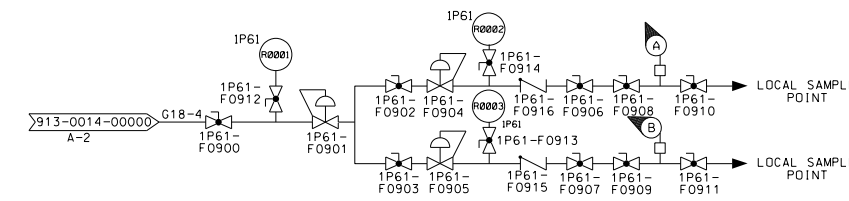
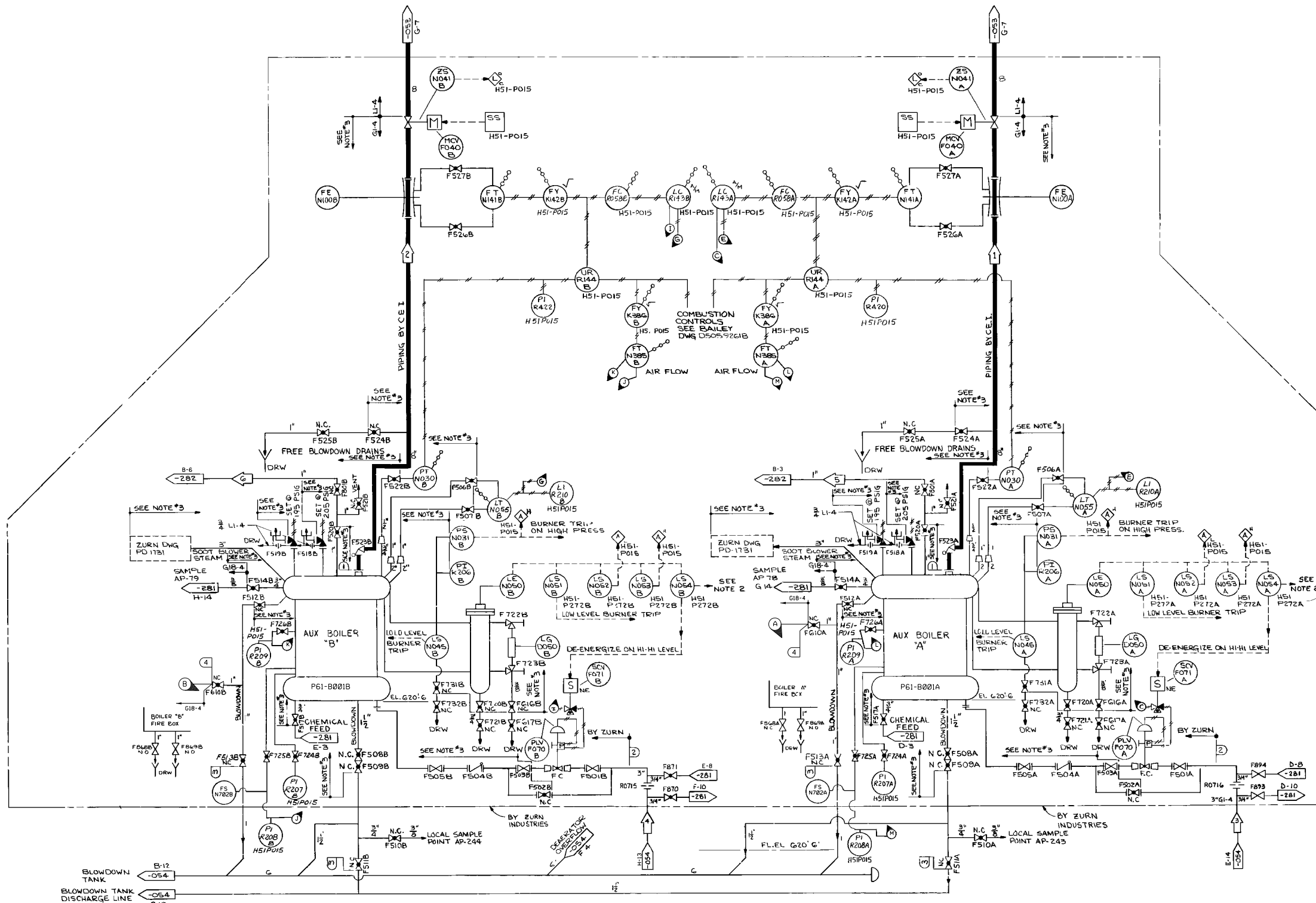
#	NORMAL	UPSET	PSIG	F	PSIG	F	TIME	BY	REMARKS	R
1	175	386	205	390	41%	KE	AA	DEENERGIZE	D	
2	305	298	305	298	-	KE	AA	DEENERGIZE	D	
3	56	298	56	298	-	MC	AA		D	
4	150	110	-	-	-	-	-	-	D	

REFERENCES:

- 302-0052-00000 AUXILIARY STEAM P61
- 302-0053-00000 AUXILIARY STEAM P61
- 302-0261-00000 AUXILIARY BOILER CHEMICAL TREATMENT P65
- 302-0241-00000 SERVICE AND INSTRUMENT AIR SUPPLY P51 AND P52
- 302-0742-00000 LW - WASTE EVAPORATOR CONDENSER P45
- H51-P015 AUXILIARY BOILER CONTROL PANEL
- H51-P272 BURNER - MANAGEMENT PANEL
- 302-0054-00000 AUXILIARY STEAM P61

NOTES:

- ENTIRE SYSTEM IN ACCORDANCE WITH LINE SPECIFICATION LI-4, EXCEPT WHERE INDICATED AS GI-4.
- BOILER "A" HI-HI LEVEL AND BOILER "B" HI-HI LEVEL TRIPS ALL THREE BOILER FEED PUMPS ON DWG. 302-0054-00000.
- DESIGNED AND FABRICATED IN ACCORDANCE WITH SECTION I OF THE ASME BOILER AND PRESSURE VESSEL CODE FROM THE INDICATED POINT TO THE BOILER, HOWEVER PER ASME SECTION I-1974, PG. 58.3, THE MATERIALS, DESIGN, FABRICATION, INSULATION AND TESTING OF BOILER EXTERNAL PIPING SHALL BE IN ACCORDANCE WITH ANSI/ASME B31.1 PER ASME B31.1 PARAGRAPH 1001.5. INSTRUMENTATION IS EXEMPT FROM SECTION I CODE REQUIREMENTS WITH EXCEPTION OF TEMPERATURE AND PRESSURE REQUIREMENTS.
- PROCESS DATA SHOWN IN THE OPERATING DATA TABLE ON THIS SYSTEM DIAGRAM SHALL BE USED IN CONJUNCTION WITH THE DESIGN BASIS INFORMATION AND SHALL BE USED WITH CAUTION. IN GENERAL, THE OPERATING DATA (PRESSURES, TEMPERATURES, AND FLOWS) PROVIDED ON THIS DRAWING REPRESENTS THE MOST COMMON OPERATING CONDITION, AND/OR SYSTEM MODE OF OPERATION AND/OR LINEUP, TO DETERMINE THE REQUIRED VALUES FOR A SPECIFIC OPERATING CONFIGURATION, THE APPROPRIATE DESIGN DOCUMENTS NEED TO BE REVIEWED.

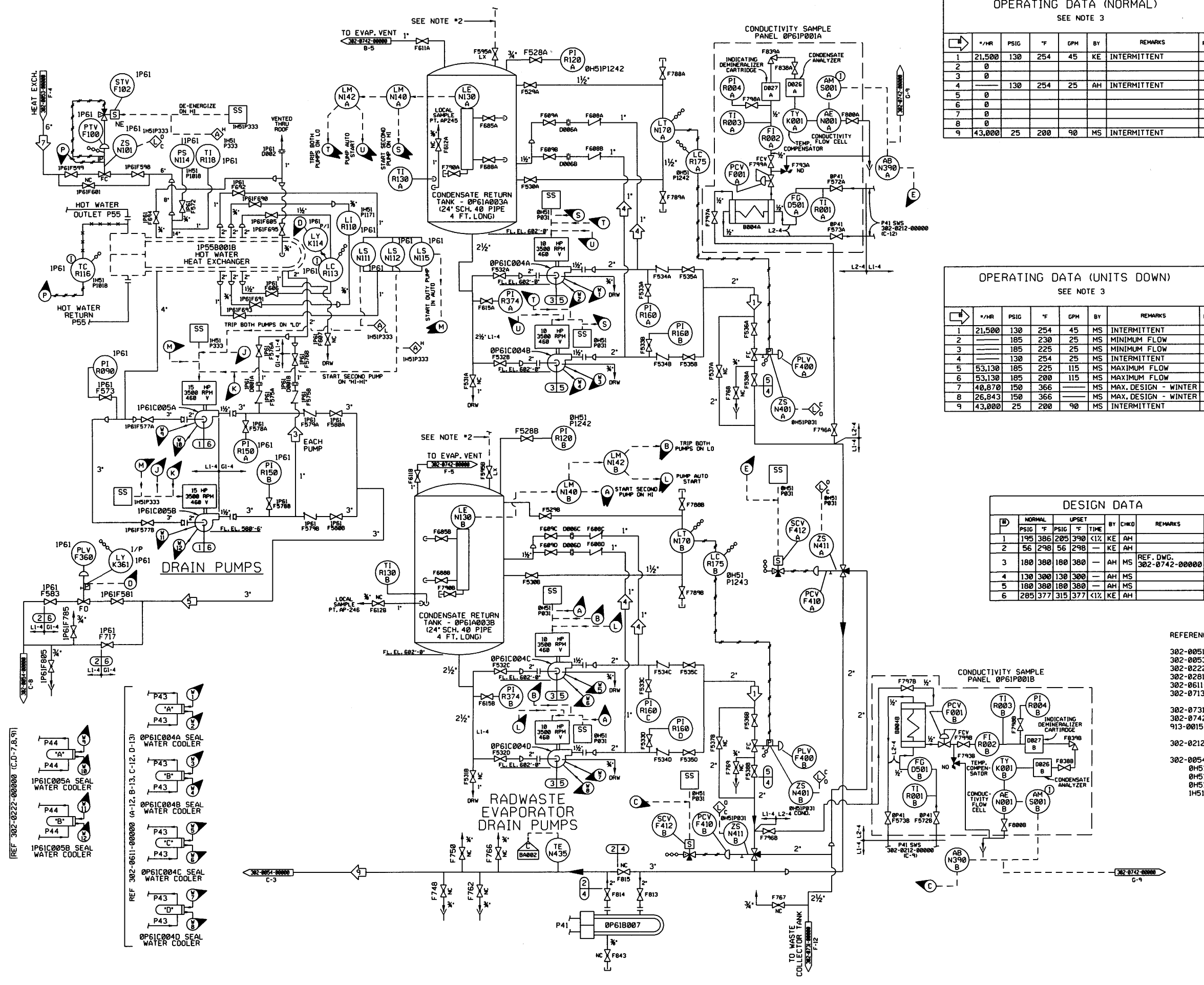


(REV. 20 10/2017)

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

AUXILIARY STEAM

FIGURE 9.5-17
(DWG. D-302-0051-00000)



OPERATING DATA (NORMAL)
SEE NOTE 3

#	*/HR	PSIG	°F	GPM	BY	REMARKS	REV
1	21,500	130	254	45	KE	INTERMITTENT	1
2	0						0
3	0						0
4		130	254	25	AH	INTERMITTENT	1
5	0						0
6	0						0
7	0						0
8	0						0
9	43,000	25	200	90	MS	INTERMITTENT	0

OPERATING DATA (UNITS DOWN)
SEE NOTE 3

#	*/HR	PSIG	°F	GPM	BY	REMARKS	REV
1	21,500	130	254	45	MS	INTERMITTENT	1
2		185	230	25	MS	MINIMUM FLOW	1
3		185	225	25	MS	MINIMUM FLOW	1
4		130	254	25	MS	INTERMITTENT	1
5	53,130	185	225	115	MS	MAXIMUM FLOW	1
6	53,130	185	200	115	MS	MAXIMUM FLOW	1
7	40,870	150	366		MS	MAX. DESIGN - WINTER	1
8	26,843	150	366		MS	MAX. DESIGN - WINTER	1
9	43,000	25	200	90	MS	INTERMITTENT	0

DESIGN DATA

#	NORMAL		UPSET		BY	CHKD	REMARKS	REV
	PSIG	°F	PSIG	°F				
1	195	386	205	390	<1/2	KE	AH	D
2	56	298	56	298		KE	AH	
3	180	380	180	380		AH	MS	REF. DWG. 302-0742-00000
4	130	300	130	300		AH	MS	
5	180	380	180	380		AH	MS	
6	285	377	315	377	<1/2	KE	AH	

NOTES:

- ENTIRE SYSTEM IN ACCORDANCE WITH LINE SPECIFICATION L1-4, EXCEPT WHERE OTHERWISE INDICATED.
- PIPING ABANDONED THIS SIDE OF ISOLATION. FOR DETAILS SEE TECHNICAL ASSIGNMENT FILE 81653.
- PROCESS DATA SHOWN IN THE OPERATING DATA TABLE ON THIS SYSTEM DIAGRAM SHALL BE USED IN CONJUNCTION WITH THE DESIGN BASIS INFORMATION AND SHALL BE USED WITH CAUTION. IN GENERAL, THE OPERATING DATA (PRESSURES, TEMPERATURES, AND FLOWS) PROVIDED ON THIS DRAWING, REPRESENTS THE MOST COMMON OPERATING CONDITION, AND/OR SYSTEM MODE OF OPERATION AND/OR LINEUP. TO DETERMINE THE REQUIRED VALUES FOR A SPECIFIC OPERATING CONFIGURATION, THE APPROPRIATE DESIGN DOCUMENTS NEED TO BE REVIEWED.

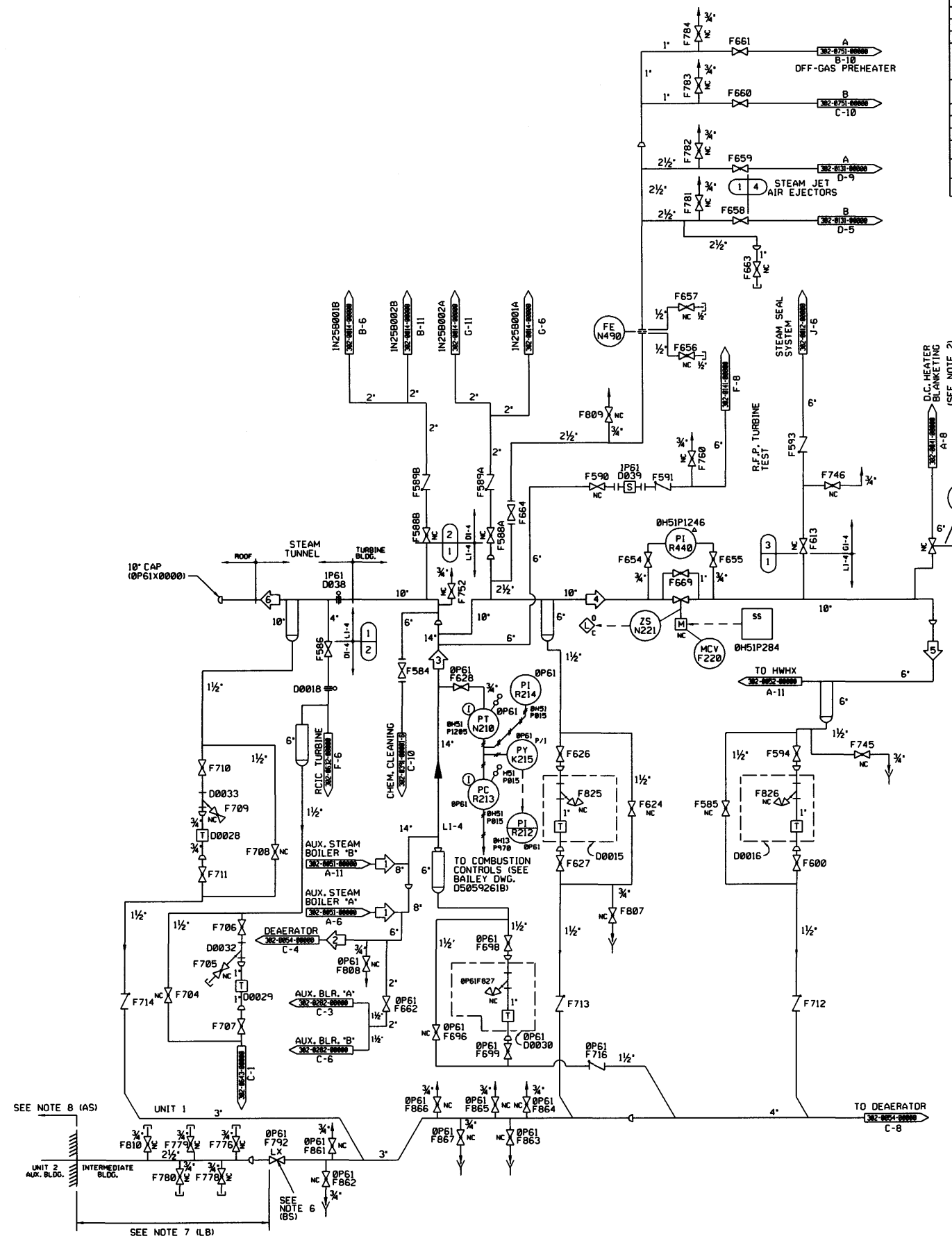
REFERENCES:

- 302-0051-00000 AUXILIARY STEAM P61
- 302-0053-00000 AUXILIARY STEAM P61
- 302-0222-00000 TURBINE BUILDING CLOSED COOLING P41
- 302-0281-00000 AUXILIARY BOILER CHEMICAL TREATMENT P85
- 302-0611-00000 NUCLEAR CLOSED COOLING SYSTEM P43
- 302-0713-00000 TWO BED DEMINERALIZER AND DISTRIBUTION SYSTEM - STORAGE AND NORTH ZONE DISTRIBUTION P21
- 302-0731-00000 LRW - FLOOR DRAIN COLLECTOR TANKS AND WASTE COLLECTOR TANKS C50
- 302-0742-00000 LRW - WASTE EVAPORATOR / CONDENSERS C50
- 913-0015-00000 HOT WATER HEATING SYSTEM DIAGRAM - HEATER BAY, AUXILIARY BUILDING AND TURBINE POWER COMPLEX - P55
- 302-0212-00000 SERVICE WATER SYSTEM
- 302-0054-00000 AUXILIARY STEAM P61
- 0H51P015 AUXILIARY BOILER CONTROL PANEL
- 0H51P031 RADWASTE CONTROL PANEL
- 0H51P079 DEAERATOR CONTROL PANEL
- 1H51P333 HOT WATER HEATING CONTROL PANEL

(REV. 19 10/2015)

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

AUXILIARY
STEAM
FIGURE 9.5-18
(DWG. D-302-0052-00000)



OPERATING DATA (NORMAL)

SEE NOTE 4

#	#/HR.	PSIG	°F	GPM	BY	REMARKS	REV
1	42,690	170	375	-	KSE	INTERMITTENT	2
2	690	170	375	-	KSE	CONTINUOUS	
3	42,000	170	375	-	KSE	INTERMITTENT	
4	0				-	KSE	
5	0				-	KSE	
6	42,000	170	375	-	KSE	INTERMITTENT	

OPERATING DATA (UNITS DOWN)

SEE NOTE 4

#	#/HR.	PSIG	°F	GPM	BY	REMARKS	REV
1	100,000	155	368	-	KSE	MAX. CONT. DESIGN	2
2	28,620	155	368	-	KSE	MAX. DESIGN	
3	200,000	155	368	-	KSE	MAX. CONT. DESIGN.	
4	100,730	150	366	-	KSE	MAX. DURING COLD STARTUP OR STANDBY	
5	48,730	150	366	-	KSE	MAX. BLDG HEATING REPT. - WINTER	
6	124,730	150	366	-	KSE	MAX. DURING COLD STARTUP OR STANDBY	

DESIGN DATA

#	NORMAL		UPSET		BY	CHKD	REMARKS	REV
	PSIG	°F	PSIG	°F				
1	195	366	205	390	KSE	AEH	REF. 302-0014-00000	2
2	250	575	-	-	KSE	AEH	REF. 302-0014-00000	
3	248	510	-	-	AEH	JFS	REF. 302-0012-00000	
4	150	386	-	-	MGJ	JFS		

REFERENCES:

- 302-0011-00000 MAIN STEAM SYSTEM M11
- 302-0012-00000 REHEAT STEAM SYSTEM M11
- 302-0041-00000 EXTRACTION STEAM N36
- 302-0051-00000 AUXILIARY STEAM P81
- 302-0052-00000 AUXILIARY STEAM P81
- 302-0141-00000 STEAM SEAL SYSTEM N33
- 302-0341-00000 CHEMICAL CLEANING OF CONDENSATE AND FEEDWATER P81
- 302-0632-00000 REACTOR CORE ISOLATION COOLING E51
- 0H51P215 AUXILIARY BOILER CONTROL PANEL
- 0H51P231 RADIOLOGIC CONTROL PANEL
- 302-0054-00000 AUXILIARY STEAM P81
- 302-0014-00000 REHEATER HEATING STEAM SYSTEM M11
- 302-0131-00000 CONDENSER AIR REMOVAL SYSTEM M52
- 302-0262-00000 AUXILIARY BOILER FUEL OIL SYSTEM 0P61B0001A
- 302-0643-00000 RESIDUAL HEAT REMOVAL SYSTEM E12
- 302-0751-00000 OFF-GAS SYSTEM M54

NOTES:

1. THE DATA UNDER THE 'NORMAL' COLUMN ARE THE SYSTEM DESIGN CONDITIONS. THESE VALUES SHALL BE USED FOR SYSTEM PRESSURE TESTING.
2. VALVE 0P61F005 HAS BEEN REMOVED FROM THE SYSTEM AND REPLACED WITH A SPOOL PIECE AND BLANKS, SEE DRAWING 302-0041-00000 (A-B). 1P61F200 IS SPARED IN PLACE.
3. DELETED
4. PROCESS DATA SHOWN IN THE OPERATING DATA TABLE ON THIS SYSTEM DIAGRAM SHALL BE USED IN CONJUNCTION WITH THE DESIGN BASIS INFORMATION AND SHALL BE USED WITH CAUTION. IN GENERAL, THE OPERATING DATA (PRESSURES, TEMPERATURES, AND FLOWS) PROVIDED ON THIS DRAWING REPRESENTS THE MOST COMMON OPERATING CONDITION, AND/OR SYSTEM MODE OF OPERATION AND/OR LINEUP. TO DETERMINE THE REQUIRED VALUES FOR A SPECIFIC OPERATING CONFIGURATION, THE APPROPRIATE DESIGN DOCUMENTS NEED TO BE REVIEWED.
5. ALL COMPONENTS ARE IPSI UNLESS OTHERWISE NOTED.
6. (BS) UNIT 1/2 BOUNDARY SEPARATION. FOR DETAILS SEE TAF B1653.
7. (LB) LICENSE RENEWAL, LEAKAGE BOUNDARY FOR ABANDONED, RETIRED IN PLACE SSC'S. FOR DETAILS SEE ECP 14-0506.
8. (AS) ABANDONED SSC'S OUTSIDE THE SCOPE OF LICENSE RENEWAL. CONFIGURATION CONTROL NOT MAINTAINED FOR ABANDONED SSC'S IF INSTALLED OUTSIDE THE SCOPE OF LICENSE RENEWAL.

(REV. 19 10/2015)

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

AUXILIARY
STEAM
FIGURE 9.5-19
(DWG. D-302-0053-00000)

OPERATING DATA (NORMAL)

SEE NOTE 3

#	°/HR	PSIG	°F	BY	REMARKS	
1	690	170	375	KE	INTERMITTENT	0
2	105,783	250	227	KE	INTERMITTENT	0
3	0	20	95	16	KE	REF D-302-222
4	7,960	20	95	16	KE	REF D-302-222
5	0	250	227	18	AH	INTERMITTENT
6	0	250	227	18	AH	INTERMITTENT
7	0					

OPERATING DATA (UNITS DOWN)

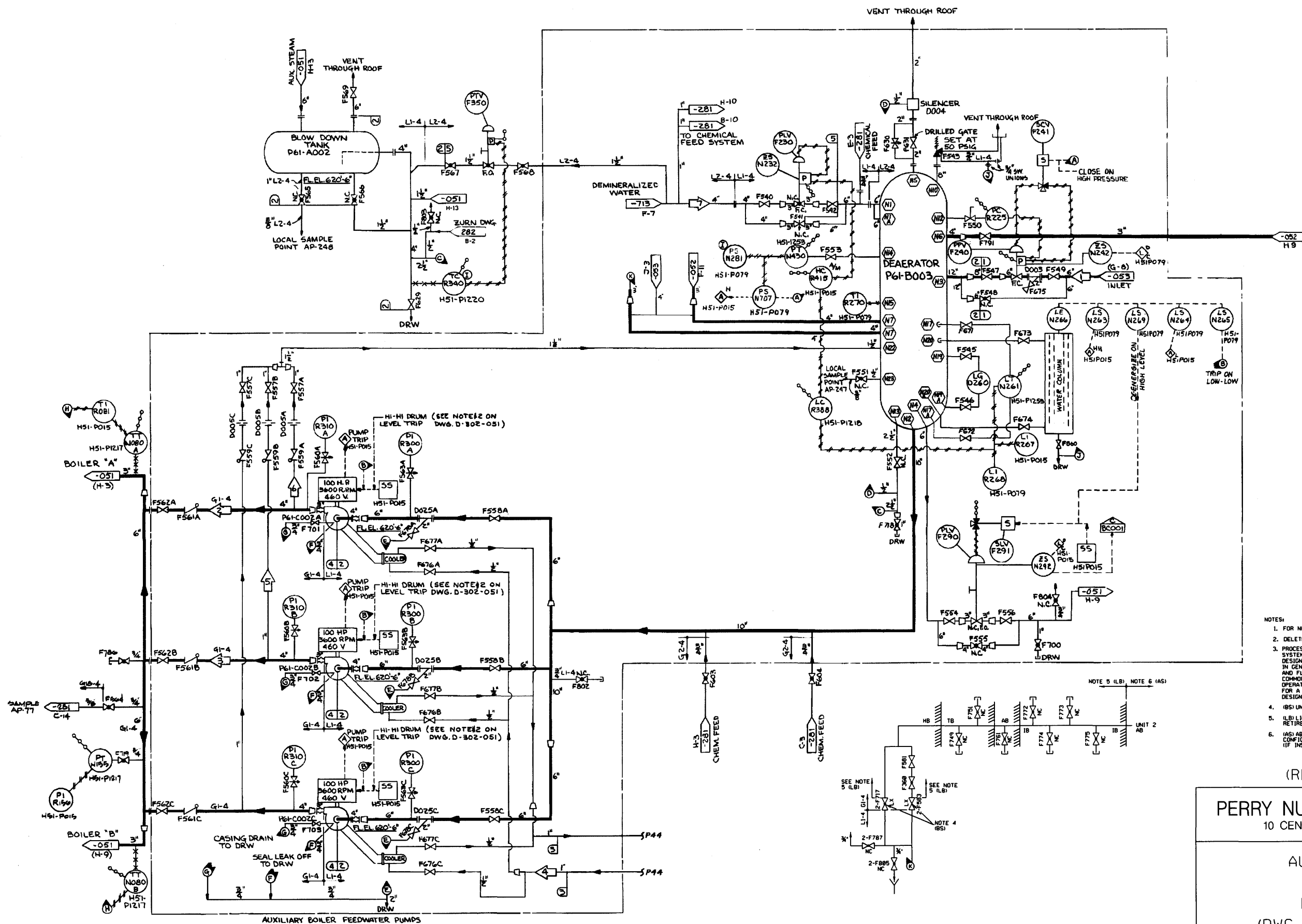
SEE NOTE 3

#	°/HR	PSIG	°F	BY	REMARKS	
1	12,970	150	266	KE	ONE UNIT ON ISLAND	0
2	105,783	250	227	KE	MAXIMUM FLOW	0
3	105,783	250	227	KE	MAXIMUM FLOW	0
4	7,960	20	95	16	KE	REF D-302-222
5	0	250	227	18	AH	MINIMUM FLOW
6	0	250	227	18	AH	MINIMUM FLOW
7	110,000	80	60	AH	UNITS ON ISLAND	0

DESIGN DATA

#	NORMAL PSIG	UPSET PSIG	°F	BY	REMARKS	
1	195	386	205	390	1% KE AH	0
2	36	248	56	280	KE AH	
3	100	125	-	-	REF D-302-222	
4	305	298	305	296	KE AH	
5	150	85	150	85	MC 300	

- NOTES:
- FOR NOTES AND REFERENCES, SEE DRAWING 302-0052-00000.
 - DELETED
 - PROCESS DATA SHOWN IN THE OPERATING DATA TABLE ON THIS SYSTEM DIAGRAM SHALL BE USED IN CONJUNCTION WITH THE DESIGN BASIS INFORMATION AND SHALL BE USED WITH CAUTION. IN GENERAL, THE OPERATING DATA (PRESSURES, TEMPERATURES, AND FLOWS) PROVIDED ON THIS DRAWING, REPRESENTS THE MOST COMMON OPERATING CONDITION AND/OR SYSTEM MODE OF OPERATION AND/OR LINEUP. TO DETERMINE THE REQUIRED VALUES FOR A SPECIFIC OPERATING CONFIGURATION, THE APPROPRIATE DESIGN DOCUMENTS NEED TO BE REVIEWED.
 - (BS) UNIT 1/2 BOUNDARY SEPARATION, FOR DETAILS SEE TAF 81653.
 - (LB) LICENSE RENEWAL LEAKAGE BOUNDARY FOR ABANDONED, RETIRED IN PLACE SSC'S, FOR DETAILS SEE ECP 14-8986.
 - (AS) ABANDONED SSC'S OUTSIDE THE SCOPE OF LICENSE RENEWAL, CONFIGURATION CONTROL NOT MAINTAINED FOR ABANDONED SSC'S (IF INSTALLED OUTSIDE THE SCOPE OF LICENSE RENEWAL).

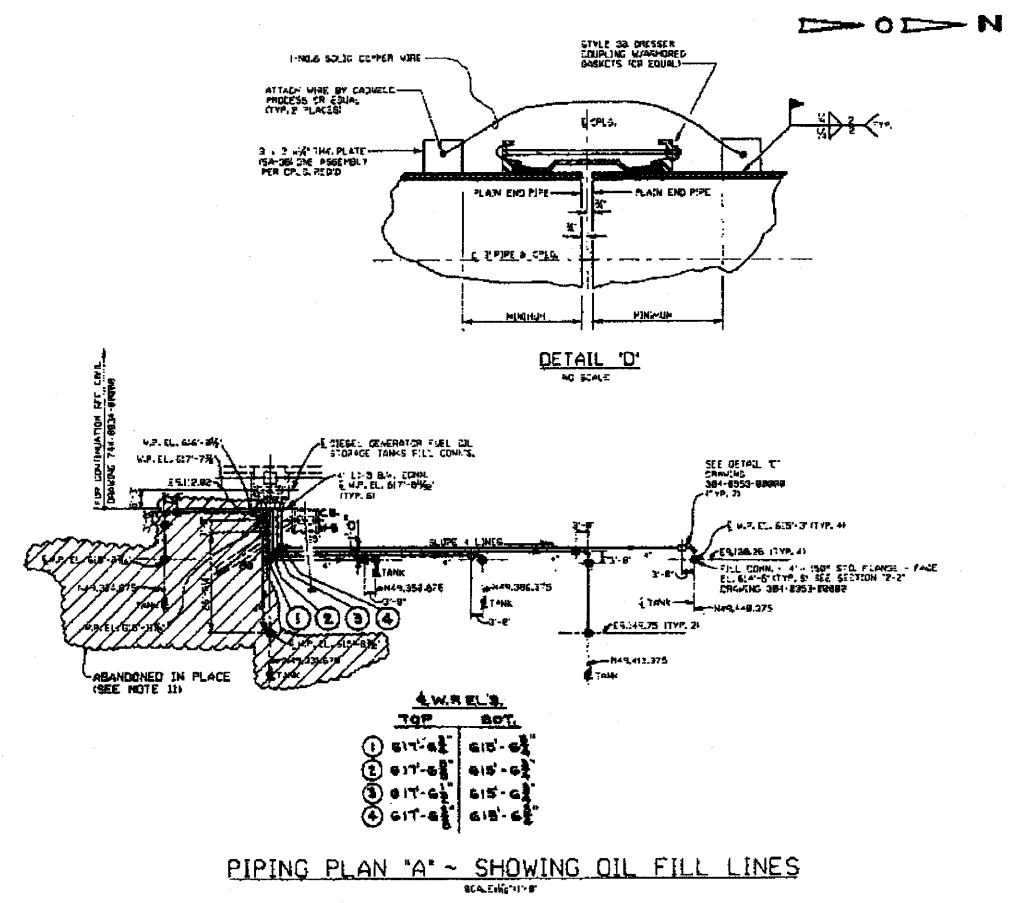
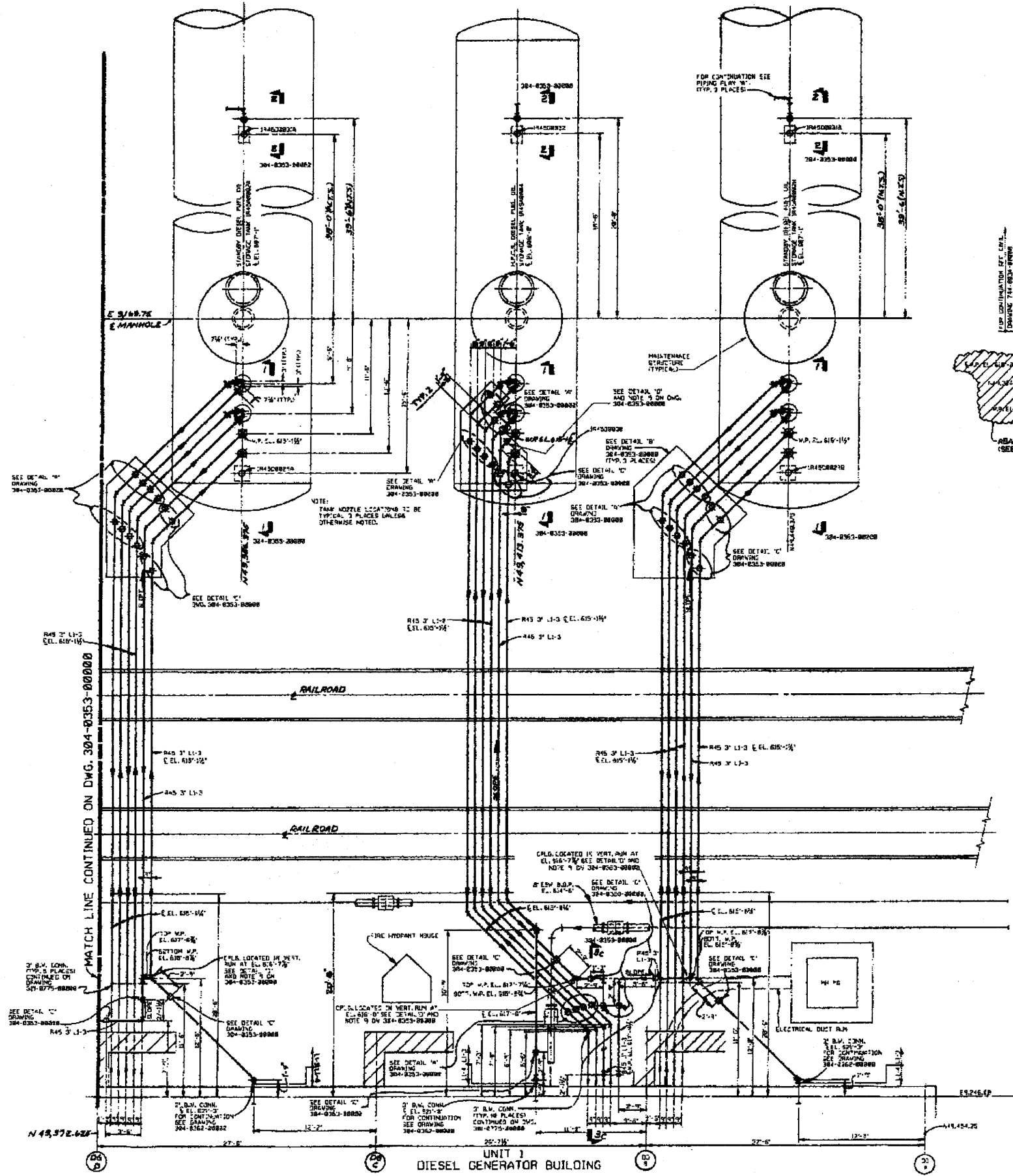


(REV. 19 10/2015)

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

AUXILIARY STEAM

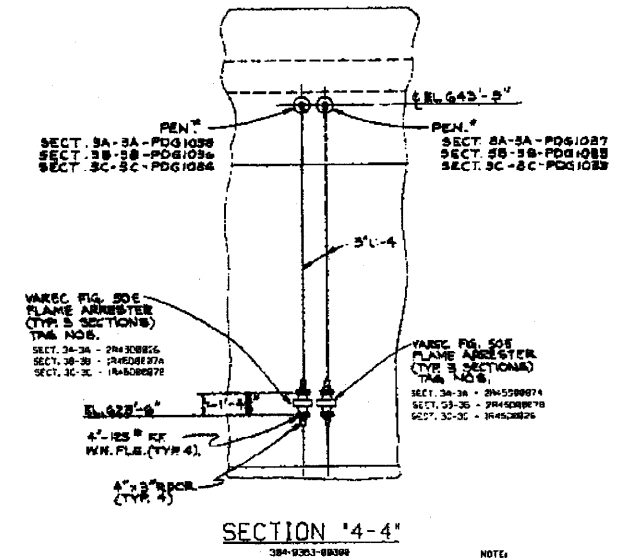
FIGURE 9.5-20
(DWG. D-302-0054-00000)



4 WARELS

	TOP	BOT
1	61'-6"	61'-6"
2	61'-6"	61'-6"
3	61'-6"	61'-6"
4	61'-6"	61'-6"

PIPING PLAN 'A' - SHOWING OIL FILL LINES



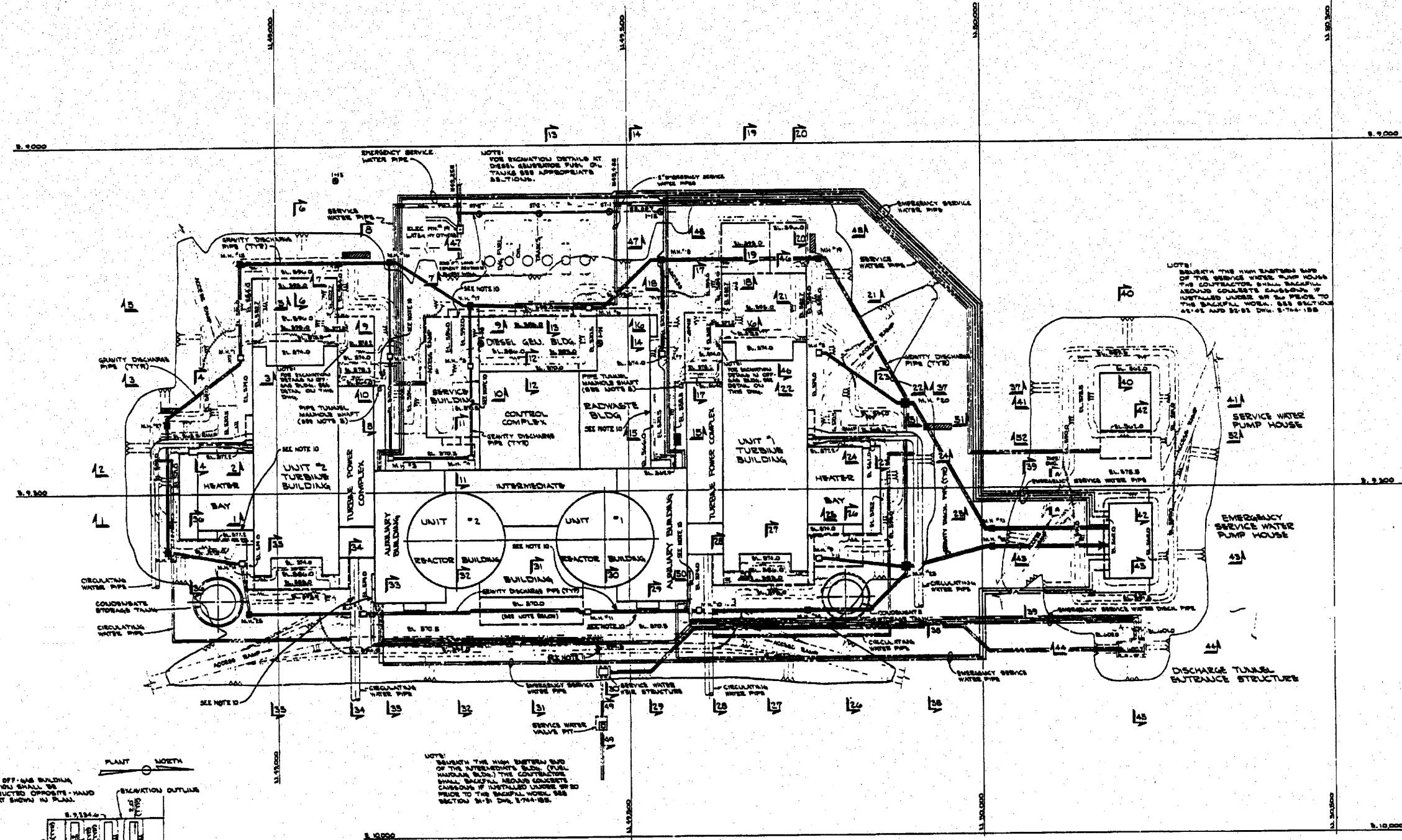
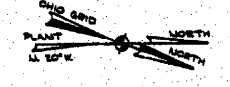
NOTE:
1. FOR NOTES AND REFERENCES, SEE DRAWING 304-8353-0000B.

(Rev. 14 10/05)

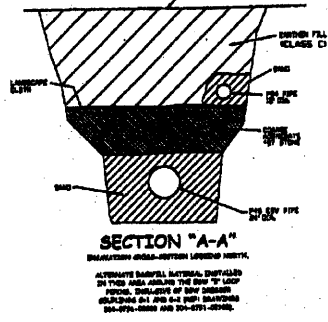
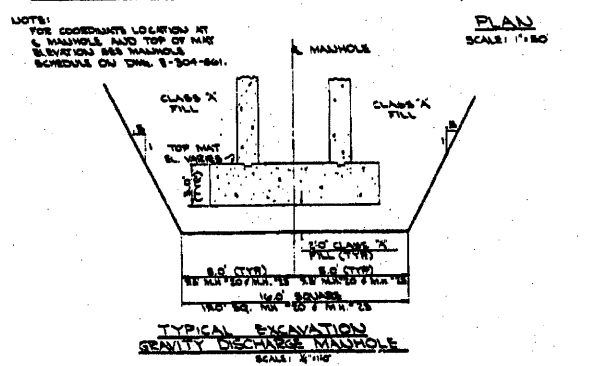
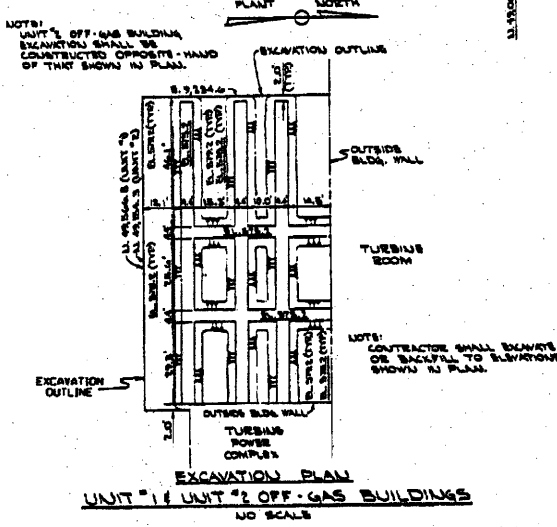
PERRY NUCLEAR POWER PLANT

Diesel Generator Fuel Oil Piping -
Yard Area

Figure 9.5-21 (Sheet 1 of 2)
(Dwg. D-304-352)



- NOTES:**
1. THE CONTRACTOR SHALL EXAMINE ALL TRENCHES REQUIRED FOR THE INSTALLATION OF SAFETY CLASS GRAVITY DISCHARGE PIPING AND EMERGENCY SERVICE WATER PIPING BY STUDY. THE CONTRACTOR SHALL ALSO PROVIDE ADDITIONAL EXAMINATION NECESSARY FOR DETERMINATION OF THE GRAVITY DISCHARGE SYSTEM SANDS.
 2. ALL SAFETY CLASS PIPING FOR THE PLANT INCLUDING GRAVITY DISCHARGE SYSTEM AND EMERGENCY SERVICE WATER SYSTEM IS SHOWN ON THE DRAWING. ONLY THE 12" AND LARGER HANGER NON-SAFETY CLASS PIPING IS SHOWN ON THE DRAWING. THE SCHEDULE OF THE PIPING IN THE CONTRACT AREA IS GIVEN ON DRAWINGS LISTED IN THE SPECIFICATIONS, "FOR REFERENCE ONLY".
 3. ALL PIPE LINES WITHIN THE MAIN PLANT LOCATION AND/OR THE PIPE TRENCHES DESCRIBED UNDER THIS CONTRACT, HAVING A GRADE OR BENCH (BANKLINE) PERIODICALLY INSPECTED FOR THE CLASS "X" FILL UNDER THE SOIL PLANT GROWING INCLUDING THE SERVICE WATER PUMPHOUSE AND THE EMERGENCY WATER PUMPHOUSE SHALL BE COMPLETELY ENVELOPED WITH TWO LOW PERMEABILITY BENCHES OF CLASS "X" FILL (ACTING AS WATER STOP) TO PRECLUDE POSSIBLE SEEPAGE FROM THE PRESSURE GRANULAR MATERIAL INTO THE CLASS "X" FILL SURROUNDING THE PLANT. THIS SHALL BE ACCOMPLISHED BY ELIMINATING THE GRANULAR MATERIAL AROUND THE PIPES IN TWO LOCATIONS AS SHOWN BY THE TYPICAL SECTION ON DRAWING NO. E-744-188.
 4. ALL PIPING SHALL BE PLACED BY OTHERS.
 5. BACKFILLING AND COMPACTION AROUND PIPE TRENCH, MANHOLE SHAFT, HANGAR OR ALL FOUR SIDES TO LIMIT THE LATERAL DISPLACEMENT FROM THE AS CONSTRUCTED POSITION TO A MAXIMUM OF 1/4" AT ELBOWS.
 6. THE CONTRACTOR SHALL EXAMINE TO FINAL ELEVATIONS SHOWN ON THE DRAWING BENEATH BUILDING FOUNDATIONS AND ALL PLANT STRUCTURES.
 7. ALL LOWER TILL MATERIAL EXCAVATED OFF GAS BUILDINGS, TURBINE BUILDINGS, ETC. UNDER THIS CONTRACT SHALL BE STOCKPILED IN THE LOWER TILL (CLASS B FILL) STOCKPILE ON-SITE OR IMMEDIATELY USED AS CLASS B FILL WHERE SPECIFIED.
 8. PLACEMENT OF BACKFILL, HANGAR BUILDING SHALL BE LIMITED TO THE SUBMITTAL OF CONTRACTED INTERIOR FLOOR SLAB SUPPORTING THE WALL, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
 9. BACKFILL OF GAS WATER PIPE SHALL BE IN ACCORDANCE WITH CLASS B FILL USED IN THIS LOCATION.
 10. CLASS B FILL USED IN THIS LOCATION.
 11. CLASS B FILL USED IN THIS LOCATION.
 12. THE SERVICE WATER SYSTEM PIPING MODIFICATIONS MADE BY SPS-74-0022 AND 74-0023 ARE NOT SHOWN ON THIS DRAWING. SHOP DRAWINGS WERE PROVIDED WITHIN THE SPS-74.
- REFERENCES:**
- E-744-01 SECTION 1-1 THROUGH SECTION 1-7 & DETAIL "A"
 - E-744-02 SECTION 8-1 THROUGH SECTION 8-4
 - E-744-03 SECTION 11-1 THROUGH SECTION 11-2
 - E-744-04 SECTION 12-1 THROUGH SECTION 12-2
 - E-744-05 SECTION 13-1 THROUGH SECTION 13-2
 - E-744-06 SECTION 14-1 THROUGH SECTION 14-2
 - E-744-07 SECTION 15-1 THROUGH SECTION 15-2
 - E-744-08 SECTION 16-1 THROUGH SECTION 16-2
 - E-744-09 SECTION 17-1 THROUGH SECTION 17-2
 - E-744-10 SECTION 18-1 THROUGH SECTION 18-2
 - E-744-11 SECTION 19-1 THROUGH SECTION 19-2
 - E-744-12 SECTION 20-1 THROUGH SECTION 20-2
 - E-744-13 SECTION 21-1 THROUGH SECTION 21-2
 - E-744-14 SECTION 22-1 THROUGH SECTION 22-2
 - E-744-15 SECTION 23-1 THROUGH SECTION 23-2
 - E-744-16 SECTION 24-1 THROUGH SECTION 24-2
 - E-744-17 SECTION 25-1 THROUGH SECTION 25-2
 - E-744-18 SECTION 26-1 THROUGH SECTION 26-2
 - E-744-19 SECTION 27-1 THROUGH SECTION 27-2
 - E-744-20 SECTION 28-1 THROUGH SECTION 28-2
 - E-744-21 SECTION 29-1 THROUGH SECTION 29-2
 - E-744-22 SECTION 30-1 THROUGH SECTION 30-2
 - E-744-23 SECTION 31-1 THROUGH SECTION 31-2
 - E-744-24 SECTION 32-1 THROUGH SECTION 32-2
 - E-744-25 SECTION 33-1 THROUGH SECTION 33-2
 - E-744-26 SECTION 34-1 THROUGH SECTION 34-2
 - E-744-27 SECTION 35-1 THROUGH SECTION 35-2
 - E-744-28 SECTION 36-1 THROUGH SECTION 36-2
 - E-744-29 SECTION 37-1 THROUGH SECTION 37-2
 - E-744-30 SECTION 38-1 THROUGH SECTION 38-2
 - E-744-31 SECTION 39-1 THROUGH SECTION 39-2
 - E-744-32 SECTION 40-1 THROUGH SECTION 40-2
 - E-744-33 SECTION 41-1 THROUGH SECTION 41-2
 - E-744-34 SECTION 42-1 THROUGH SECTION 42-2
 - E-744-35 SECTION 43-1 THROUGH SECTION 43-2
 - E-744-36 SECTION 44-1 THROUGH SECTION 44-2
 - E-744-37 SECTION 45-1 THROUGH SECTION 45-2
 - E-744-38 SECTION 46-1 THROUGH SECTION 46-2
 - E-744-39 SECTION 47-1 THROUGH SECTION 47-2
 - E-744-40 SECTION 48-1 THROUGH SECTION 48-2
 - E-744-41 SECTION 49-1 THROUGH SECTION 49-2
 - E-744-42 SECTION 50-1 THROUGH SECTION 50-2
 - E-744-43 SECTION 51-1 THROUGH SECTION 51-2
 - E-744-44 SECTION 52-1 THROUGH SECTION 52-2
 - E-744-45 SECTION 53-1 THROUGH SECTION 53-2
 - E-744-46 SECTION 54-1 THROUGH SECTION 54-2
 - E-744-47 SECTION 55-1 THROUGH SECTION 55-2
 - E-744-48 SECTION 56-1 THROUGH SECTION 56-2
 - E-744-49 SECTION 57-1 THROUGH SECTION 57-2
 - E-744-50 SECTION 58-1 THROUGH SECTION 58-2
 - E-744-51 SECTION 59-1 THROUGH SECTION 59-2
 - E-744-52 SECTION 60-1 THROUGH SECTION 60-2
 - E-744-53 SECTION 61-1 THROUGH SECTION 61-2
 - E-744-54 SECTION 62-1 THROUGH SECTION 62-2
 - E-744-55 SECTION 63-1 THROUGH SECTION 63-2
 - E-744-56 SECTION 64-1 THROUGH SECTION 64-2
 - E-744-57 SECTION 65-1 THROUGH SECTION 65-2
 - E-744-58 SECTION 66-1 THROUGH SECTION 66-2
 - E-744-59 SECTION 67-1 THROUGH SECTION 67-2
 - E-744-60 SECTION 68-1 THROUGH SECTION 68-2
 - E-744-61 SECTION 69-1 THROUGH SECTION 69-2
 - E-744-62 SECTION 70-1 THROUGH SECTION 70-2
 - E-744-63 SECTION 71-1 THROUGH SECTION 71-2
 - E-744-64 SECTION 72-1 THROUGH SECTION 72-2
 - E-744-65 SECTION 73-1 THROUGH SECTION 73-2
 - E-744-66 SECTION 74-1 THROUGH SECTION 74-2
 - E-744-67 SECTION 75-1 THROUGH SECTION 75-2
 - E-744-68 SECTION 76-1 THROUGH SECTION 76-2
 - E-744-69 SECTION 77-1 THROUGH SECTION 77-2
 - E-744-70 SECTION 78-1 THROUGH SECTION 78-2
 - E-744-71 SECTION 79-1 THROUGH SECTION 79-2
 - E-744-72 SECTION 80-1 THROUGH SECTION 80-2
 - E-744-73 SECTION 81-1 THROUGH SECTION 81-2
 - E-744-74 SECTION 82-1 THROUGH SECTION 82-2
 - E-744-75 SECTION 83-1 THROUGH SECTION 83-2
 - E-744-76 SECTION 84-1 THROUGH SECTION 84-2
 - E-744-77 SECTION 85-1 THROUGH SECTION 85-2
 - E-744-78 SECTION 86-1 THROUGH SECTION 86-2
 - E-744-79 SECTION 87-1 THROUGH SECTION 87-2
 - E-744-80 SECTION 88-1 THROUGH SECTION 88-2
 - E-744-81 SECTION 89-1 THROUGH SECTION 89-2
 - E-744-82 SECTION 90-1 THROUGH SECTION 90-2
 - E-744-83 SECTION 91-1 THROUGH SECTION 91-2
 - E-744-84 SECTION 92-1 THROUGH SECTION 92-2
 - E-744-85 SECTION 93-1 THROUGH SECTION 93-2
 - E-744-86 SECTION 94-1 THROUGH SECTION 94-2
 - E-744-87 SECTION 95-1 THROUGH SECTION 95-2
 - E-744-88 SECTION 96-1 THROUGH SECTION 96-2
 - E-744-89 SECTION 97-1 THROUGH SECTION 97-2
 - E-744-90 SECTION 98-1 THROUGH SECTION 98-2
 - E-744-91 SECTION 99-1 THROUGH SECTION 99-2
 - E-744-92 SECTION 100-1 THROUGH SECTION 100-2



- LEGEND**
- EXISTING EXCAVATION OUTLINE (AS THIS OF CONSTRUCTION)
 - TOP OF EXISTING SLOPE
 - EXISTING ELEVATIONS (THIS CONTRACT)
 - EXISTING SLOPE
 - EXISTING BUILDING LIMITS
 - FUTURE BUILDING LIMITS
 - EXISTING BUILDING OR STRUCTURE TO BE REMOVED
 - UNDERGROUND MANHOLE (MIN. 12" DIA. 11, 15, 18)
 - GRAVITY DISCHARGE MANHOLE (MIN. 18" DIA. 27)
 - SAFETY CLASS PIPE (24" DIA. & LARGER)
 - NON-SAFETY CLASS PIPE (24" DIA. & LARGER)
 - INDUSTRIAL WATER OR INTERCEPTOR TANKS
 - LIMIT OF CLASS "X" FILL IN AREA OF ACCESS RAMPS
 - TEST BORINGS

FOR REFERENCE ONLY

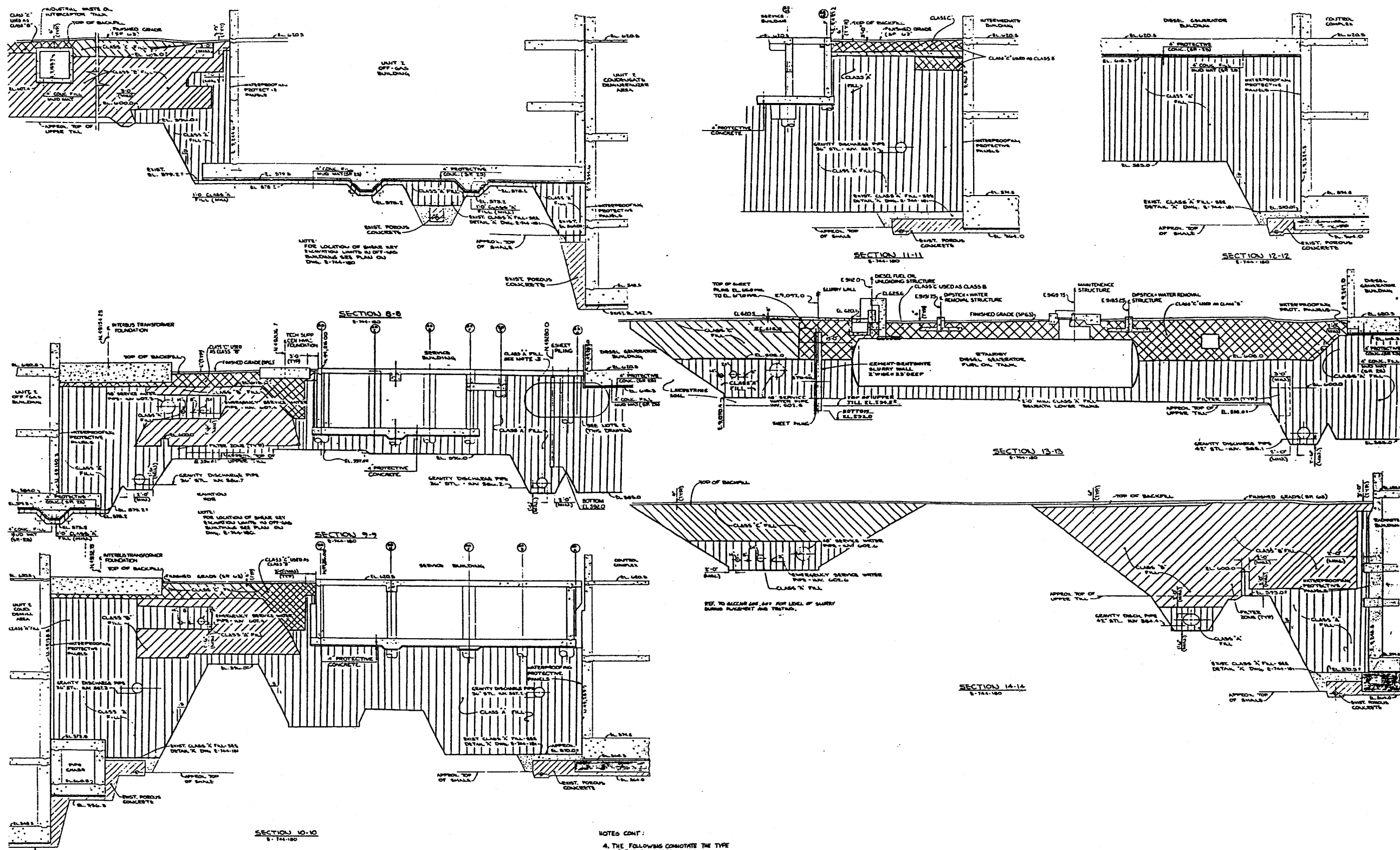
NO.	COORDINATE	DEPTH
734-10-1	C-10	10'
734-10-2	C-10	10'
734-10-3	C-10	10'
734-10-4	C-10	10'
734-10-5	C-10	10'
734-10-6	C-10	10'
734-10-7	C-10	10'
734-10-8	C-10	10'
734-10-9	C-10	10'
734-10-10	C-10	10'
734-10-11	C-10	10'
734-10-12	C-10	10'
734-10-13	C-10	10'
734-10-14	C-10	10'
734-10-15	C-10	10'
734-10-16	C-10	10'
734-10-17	C-10	10'
734-10-18	C-10	10'
734-10-19	C-10	10'
734-10-20	C-10	10'
734-10-21	C-10	10'
734-10-22	C-10	10'
734-10-23	C-10	10'
734-10-24	C-10	10'
734-10-25	C-10	10'
734-10-26	C-10	10'
734-10-27	C-10	10'
734-10-28	C-10	10'
734-10-29	C-10	10'
734-10-30	C-10	10'
734-10-31	C-10	10'
734-10-32	C-10	10'
734-10-33	C-10	10'
734-10-34	C-10	10'
734-10-35	C-10	10'
734-10-36	C-10	10'
734-10-37	C-10	10'
734-10-38	C-10	10'
734-10-39	C-10	10'
734-10-40	C-10	10'
734-10-41	C-10	10'
734-10-42	C-10	10'
734-10-43	C-10	10'
734-10-44	C-10	10'
734-10-45	C-10	10'
734-10-46	C-10	10'
734-10-47	C-10	10'
734-10-48	C-10	10'
734-10-49	C-10	10'
734-10-50	C-10	10'
734-10-51	C-10	10'
734-10-52	C-10	10'
734-10-53	C-10	10'
734-10-54	C-10	10'
734-10-55	C-10	10'
734-10-56	C-10	10'
734-10-57	C-10	10'
734-10-58	C-10	10'
734-10-59	C-10	10'
734-10-60	C-10	10'
734-10-61	C-10	10'
734-10-62	C-10	10'
734-10-63	C-10	10'
734-10-64	C-10	10'
734-10-65	C-10	10'
734-10-66	C-10	10'
734-10-67	C-10	10'
734-10-68	C-10	10'
734-10-69	C-10	10'
734-10-70	C-10	10'
734-10-71	C-10	10'
734-10-72	C-10	10'
734-10-73	C-10	10'
734-10-74	C-10	10'
734-10-75	C-10	10'
734-10-76	C-10	10'
734-10-77	C-10	10'
734-10-78	C-10	10'
734-10-79	C-10	10'
734-10-80	C-10	10'
734-10-81	C-10	10'
734-10-82	C-10	10'
734-10-83	C-10	10'
734-10-84	C-10	10'
734-10-85	C-10	10'
734-10-86	C-10	10'
734-10-87	C-10	10'
734-10-88	C-10	10'
734-10-89	C-10	10'
734-10-90	C-10	10'
734-10-91	C-10	10'
734-10-92	C-10	10'
734-10-93	C-10	10'
734-10-94	C-10	10'
734-10-95	C-10	10'
734-10-96	C-10	10'
734-10-97	C-10	10'
734-10-98	C-10	10'
734-10-99	C-10	10'
734-10-100	C-10	10'

(Rev. 16 10/09)





PERRY NUCLEAR POWER PLANT

Plant Backfill and Excavation
Showing Diesel Generator Piping
and Fuel Oil Tanks

Figure 9.5-22 (Sheet 1 of 3)
(Dwg. E-744-180)




NOTES CONT:
 4. THE FOLLOWING CONNOTATE THE TYPE OF BACKFILL USED.

-  CLASS "A" BACKFILL
-  CLASS "B" BACKFILL
-  CLASS "C" BACKFILL
-  CLASS "C" BACKFILL USED AS "B"

- NOTES:
1. FOR NOTES AND REFERENCES SEE DWG. E-744-181.
 2. THE CONTRACTOR SHALL CONDUIT THE FILL BACKFILL WORK IN THIS AREA IN THE SP-22 CONTRACTOR CONSTRUCTING SERVICE BUILDING CONSIDERED ADJACENT TO THE DIESEL GENERATOR BUILDING SUCH THAT THIS CLASSION WORK WILL BE CONSTRUCTED PRIOR TO THE SAFETY RELATED CLASS "A" FILL BEING PLACED AS SHOWN.
 3. UPON COMPLETION OF CLASS "A" FILL TO ELEVATION 511.0 THE SP-22 CONTRACTOR WILL INSTALL SERVICE BUILDING CLASSION. THE SP-22 CONTRACTOR SHALL CONDUIT THE REMAINING PLACEMENT OF CLASS "A" BACKFILL UNDER SERVICE BUILDING WITH THE SP-22 CONTRACTOR.

NUCLEAR SAFETY RELATED

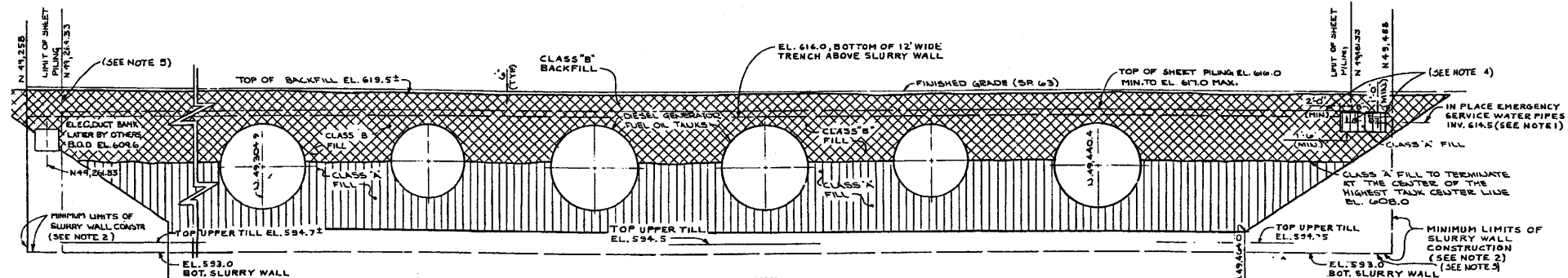
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

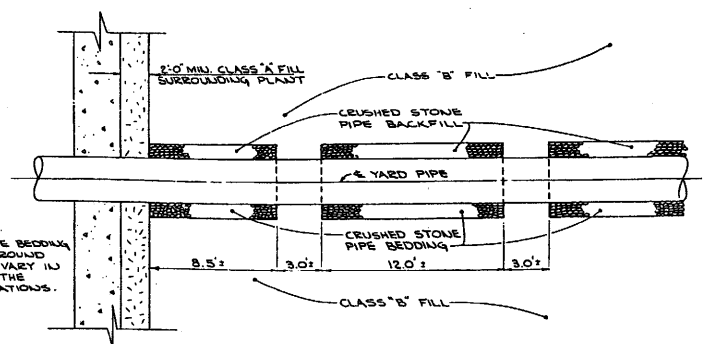
Plant Backfill and Excavation
Showing Diesel Generator Piping
and Fuel Oil Tanks

Figure 9.5-22 (Sheet 2 of 3)
(Dwg. E-744-182)



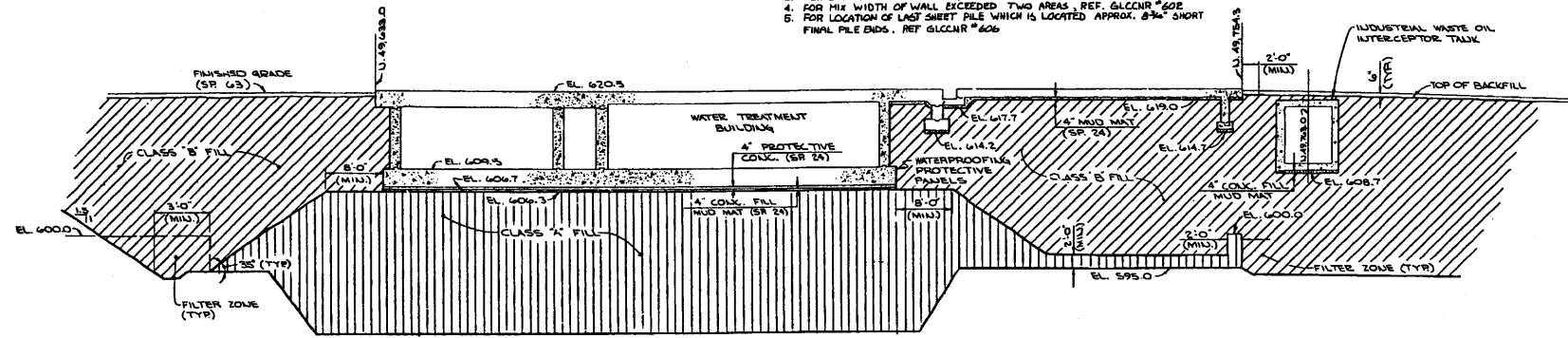
SECTION 47-47
E-744-180

- NOTES:
1. BEFORE STARTING MACHINE EXCAVATION NORTH OF THE TANKS, THE CONTRACTOR SHALL CAREFULLY HAND EXCAVATE AROUND THE 1" EMERGENCY SERVICE WATER PIPES LOCATED AS SHOWN ON THE DRAWING AT THE NORTH LIMIT OF THE SLURRY WALL CONSTRUCTION, LEAVING COMPLETELY EXPOSED THE PIPES. THE CONTRACTOR SHALL CAREFULLY BACKFILL EXCAVATION FOR THE 2 FT. WIDE SLURRY WALL BETWEEN THE PIPES AS TO NOT DAMAGE OR MOVE THE PIPES, BUT DAMAGE TO THE PIPES DURING THE SLURRY WALL CONSTRUCTION WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
 2. THE NORTH AND SOUTH LIMITS GIVEN FOR THE SLURRY WALL CONSTRUCTION ARE MINIMUM. IF CLASS "A" FILL BEDDING FOR THE TANKS IS ENCOUNTERED AT THESE LIMITS, THE WALL SHALL BE EXTENDED UNTIL IT IS SET AT LEAST 2 FT. INTO THE NATURAL UNDERLYING SOIL, AND THE CONTRACTOR WILL BE PAID EXTRA PER THE CONTRACT UNIT PRICE SCHEDULE.
 3. FOR BOTTOM ELEV. OF TRENCH, REF. GLCCNR #60.
 4. FOR MIN. WIDTH OF WALL EXCEEDED TWO AREAS, REF. GLCCNR #60E.
 5. FOR LOCATION OF LAST SHEET PILE WHICH IS LOCATED APPROX. 8 3/4" SHORT FINAL PILE ENDS, REF. GLCCNR #60E.

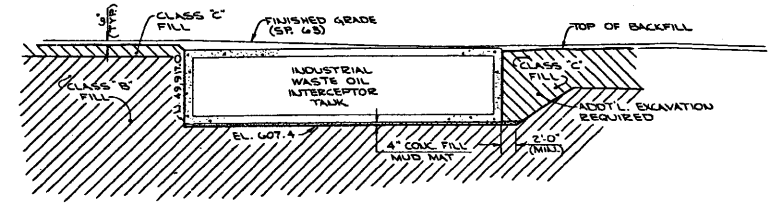


TYPICAL SECTION
CLASS B FILL WATERSTOPS
NO SCALE

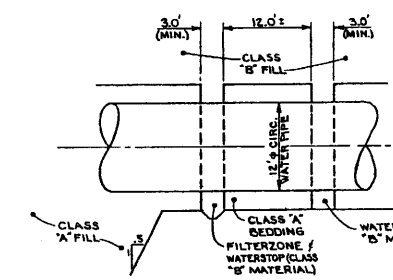
NOTE:
THE EXTENT OF STONE BEDDING AND/OR BACKFILL AROUND YARD PIPING WILL VARY IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS.



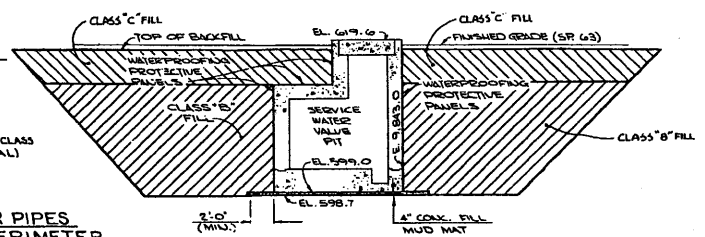
SECTION 48-48
E-744-180



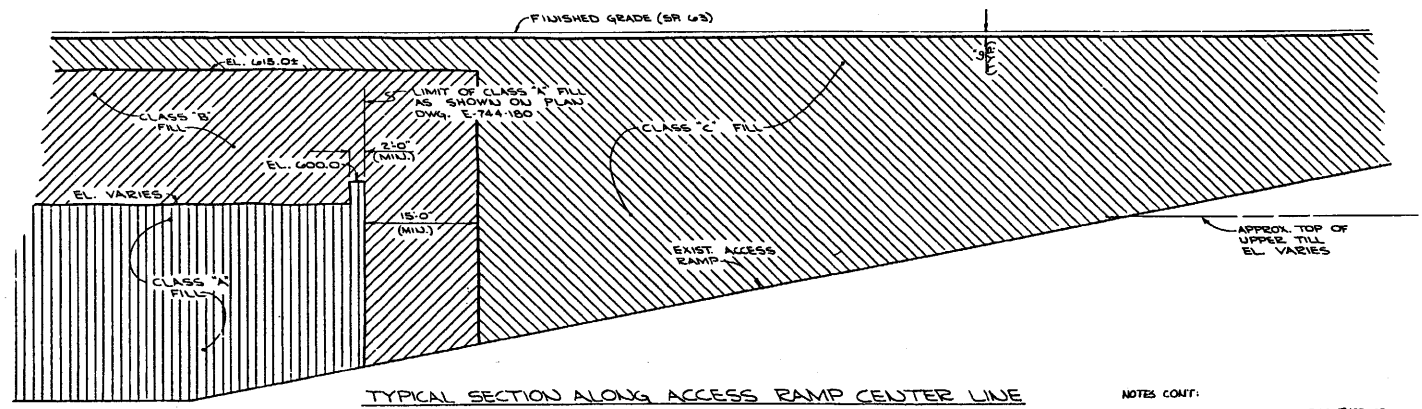
SECTION 51-51
E-744-180



TYPICAL SECTION FOR 12" DIA. CIRC. WATER PIPES
CLASS B FILL WATERSTOPS AT EXCAVATION PERIMETER
NO SCALE



SECTION 49-49
E-744-180



TYPICAL SECTION ALONG ACCESS RAMP CENTER LINE

NOTES CONT:

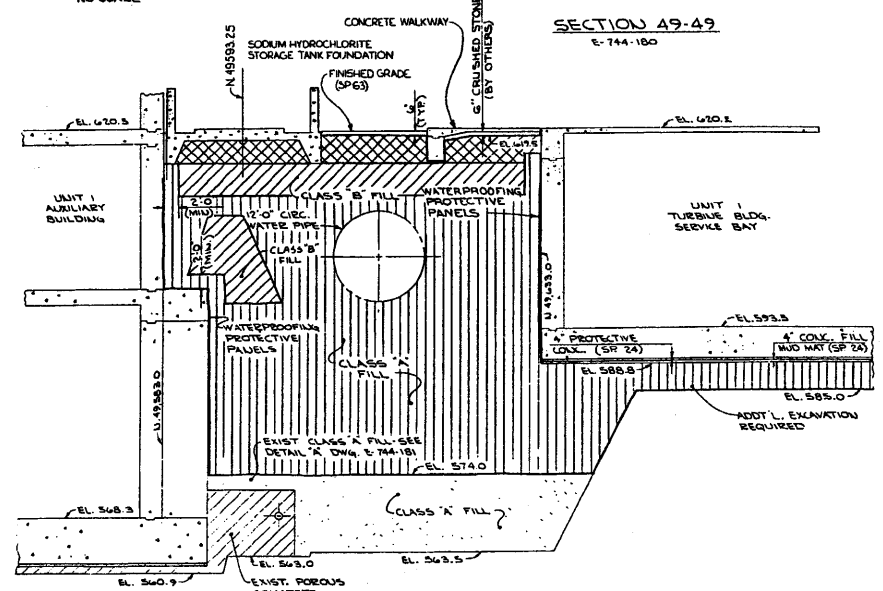
2. THE FOLLOWING CANNOTATE THE TYPE OF BACKFILL USED:

- CLASS "A" BACKFILL
- CLASS "B" BACKFILL
- CLASS "C" BACKFILL
- CLASS "C" BACKFILL USED AS "B"

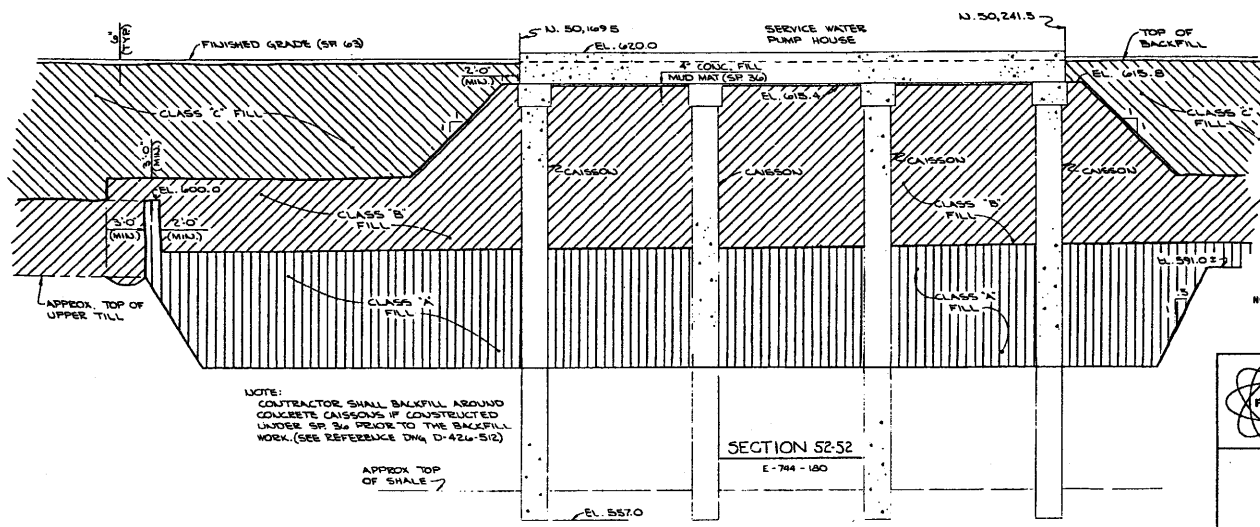
NUCLEAR SAFETY RELATED

NOTES:
1. FOR NOTES AND REFERENCES SEE DWG. E-744-181.

(Rev. 12 1/03)



SECTION 50-50
E-744-180



SECTION 52-52
E-744-180

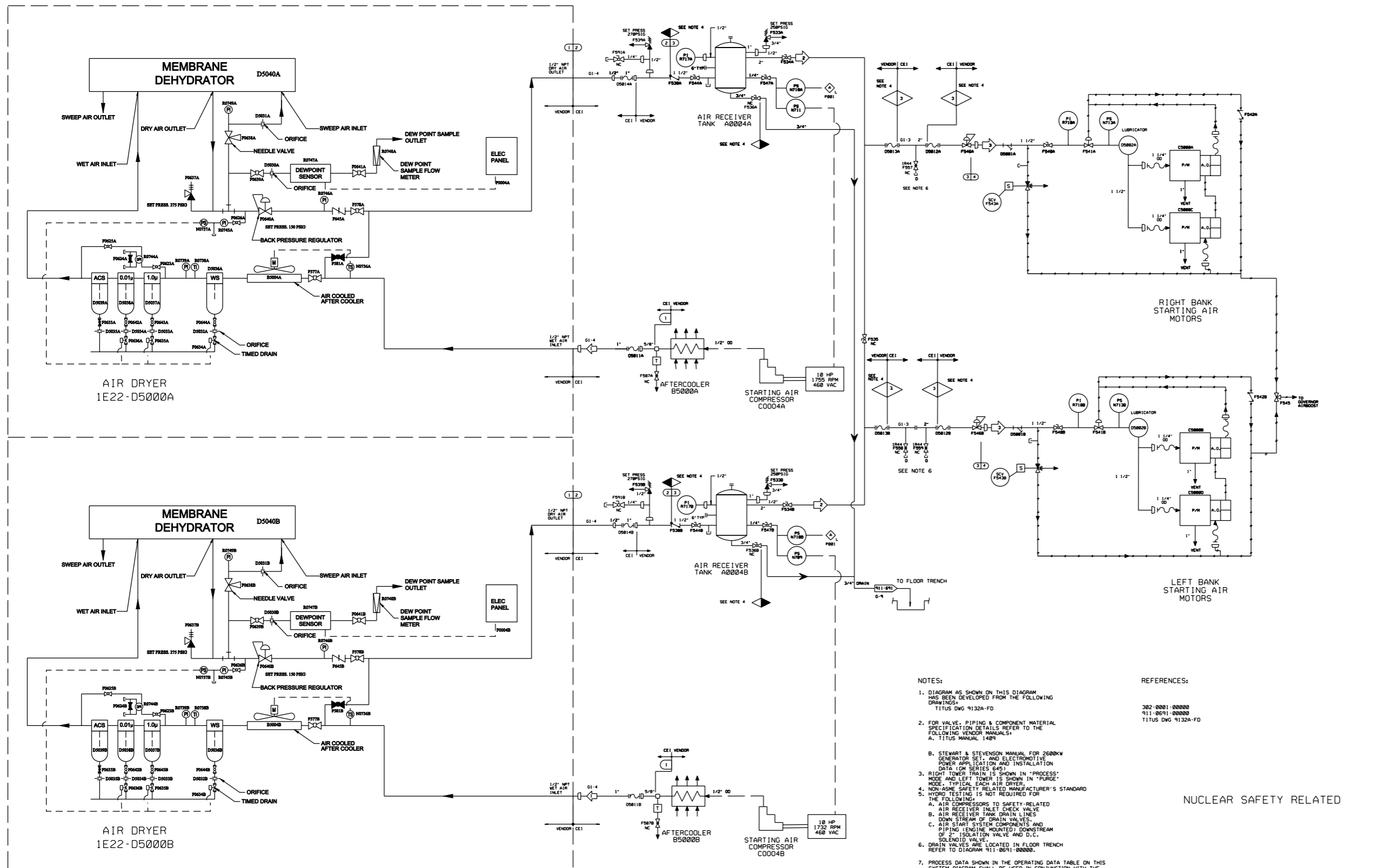
NOTE:
CONTRACTOR SHALL BACKFILL AROUND CONCRETE CAISSONS IF CONSTRUCTED UNDER SR 54 RELATIVE TO THE BACKFILL WORK. (SEE REFERENCE DWG. D-424-512)

PERRY NUCLEAR POWER PLANT

Plant Backfill and Excavation
Showing Diesel Generator Piping
and Fuel Oil Tanks

Figure 9.5-22 (Sheet 3 of 3)
(Dwg. E-744-188)

OPERATING DATA						DESIGN DATA						
SEE NOTE 7												
REV	PSIG	SCFM	* F	BY	REMARKS	REV	NORMAL PSIG	UPSET PSIG	TIME	BY	CHKD	REV
1	250	22.5	142° F			1	275	150	275	150		
2	250	2340	142° F			2	270	150	270	150		
3	200	2340	120° F			3	250	150	250	150		
4						4	200	120	200	120		
5												



- NOTES:
- DIAGRAM AS SHOWN ON THIS DIAGRAM HAS BEEN DEVELOPED FROM THE FOLLOWING DRAWINGS:
TITUS DWG 9132A-FD
 - FOR VALVE, PIPING & COMPONENT MATERIAL SPECIFICATION DETAILS REFER TO THE FOLLOWING VENDOR MANUALS:
A. TITUS MANUAL 1489
 - STEWART & STEVENSON MANUAL FOR 2600KW GENERATOR SET, AND ELECTROMOTIVE POWER APPLICATION AND INSTALLATION DATA (M SERIES 64)
 - RIGHT TOWER TRAIN IS SHOWN IN 'PROCESS' MODE AND LEFT TOWER IS SHOWN IN 'PURGE' MODE. TYPICAL EACH AIR DRYER.
 - NON-ASME SAFETY RELATED MANUFACTURER'S STANDARD HYDRO TESTING IS NOT REQUIRED FOR THE FOLLOWING:
A. AIR COMPRESSORS TO SAFETY-RELATED AIR RECEIVER INLET CHECK VALVE
B. AIR RECEIVER TANK DRAIN LINES DOWN STREAM OF DRAIN VALVES.
C. AIR START SYSTEM COMPONENTS AND PIPING (LENGTH INDICATED) DOWNSTREAM OF 2" ISOLATION VALVE AND D.C. SOLENOID VALVE.
 - DRAIN VALVES ARE LOCATED IN FLOOR TRENCH REFER TO DIAGRAM 911-091-0000B.
 - PROCESS DATA SHOWN IN THE OPERATING DATA TABLE ON THIS SYSTEM DIAGRAM SHALL BE USED IN CONJUNCTION WITH THE DESIGN BASIS INFORMATION AND SHALL BE USED WITH CAUTION. IN GENERAL, THE OPERATING DATA (PRESSURES, TEMPERATURES, AND FLOWS) PROVIDED ON THIS DRAWING, REPRESENTS THE MOST COMMON OPERATING CONDITION, AND/OR SYSTEM MODE OF OPERATION AND/OR LINEUP, TO DETERMINE THE REQUIRED VALUES FOR A SPECIFIC OPERATING CONFIGURATION, THE APPROPRIATE DESIGN DOCUMENTS NEED TO BE REVIEWED.
- REFERENCES:
- 302-0001-00000
 - 911-091-00000
 - TITUS DWG 9132A-FD

NUCLEAR SAFETY RELATED

(Rev. 17 10/11)

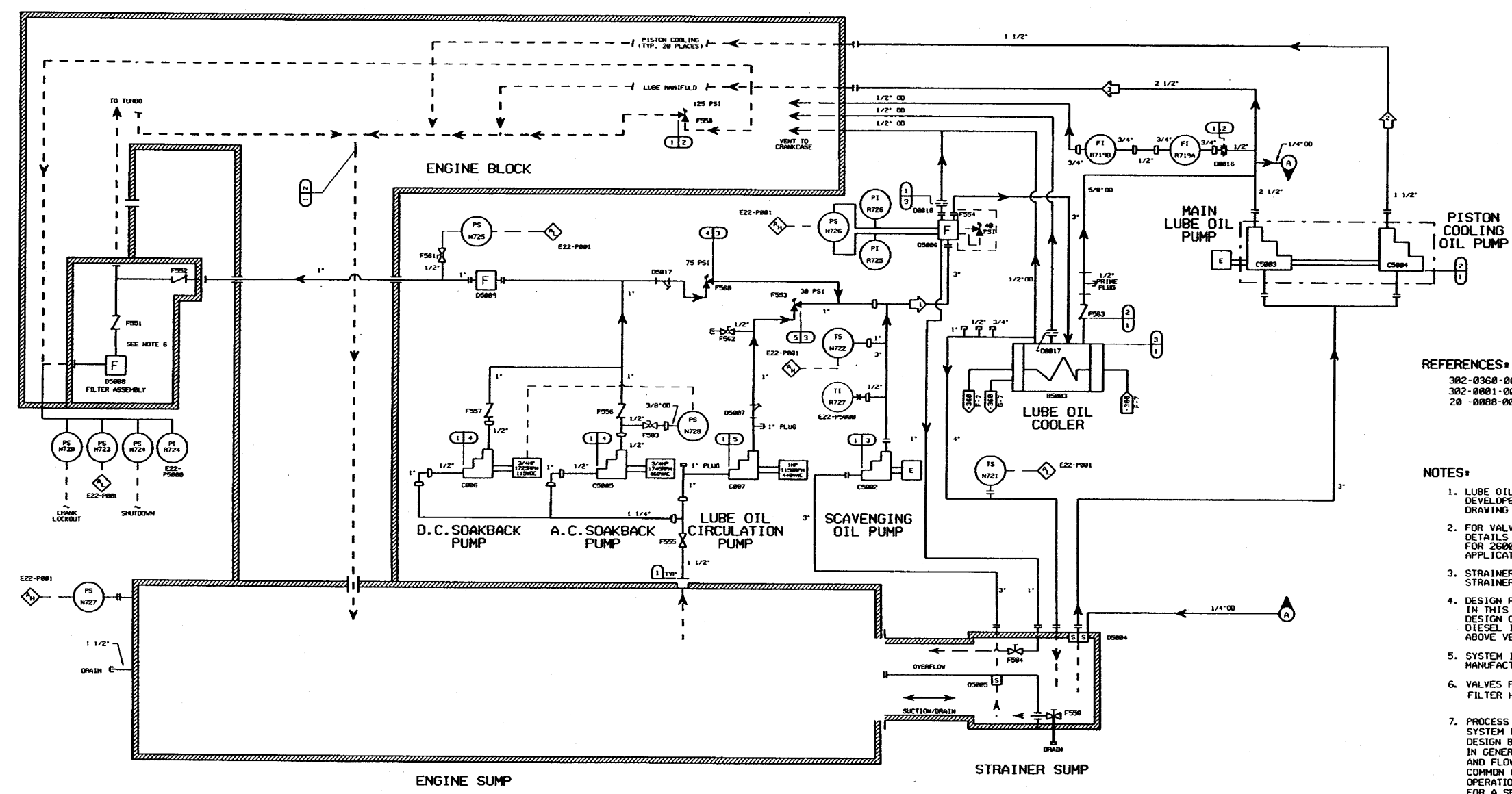
PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

Division 3 Diesel
Starting Air/Air Dryer Diagram

Figure 9.5-24
(DWG. D-302-0358-00000)

OPERATING DATA						
SEE NOTE 7						
ID	PSIG	GPM	°F	BY	REVISIONS	REV
1	25	370	210			
2	85	187	210			
3	85	227	210			
4						
5						

DESIGN DATA (SEE NOTE 4)							
ID	NORMAL PSIG	UPSET PSIG	°F	TIME	BY	CHKD	REV
1	5	5	210				
2	125	125	210				
3	48	48	235				
4	38	38	210				
5	78	78	235				



- REFERENCES:**
- 302-0360-00000
 - 302-0001-00000
 - 20-0088-00007

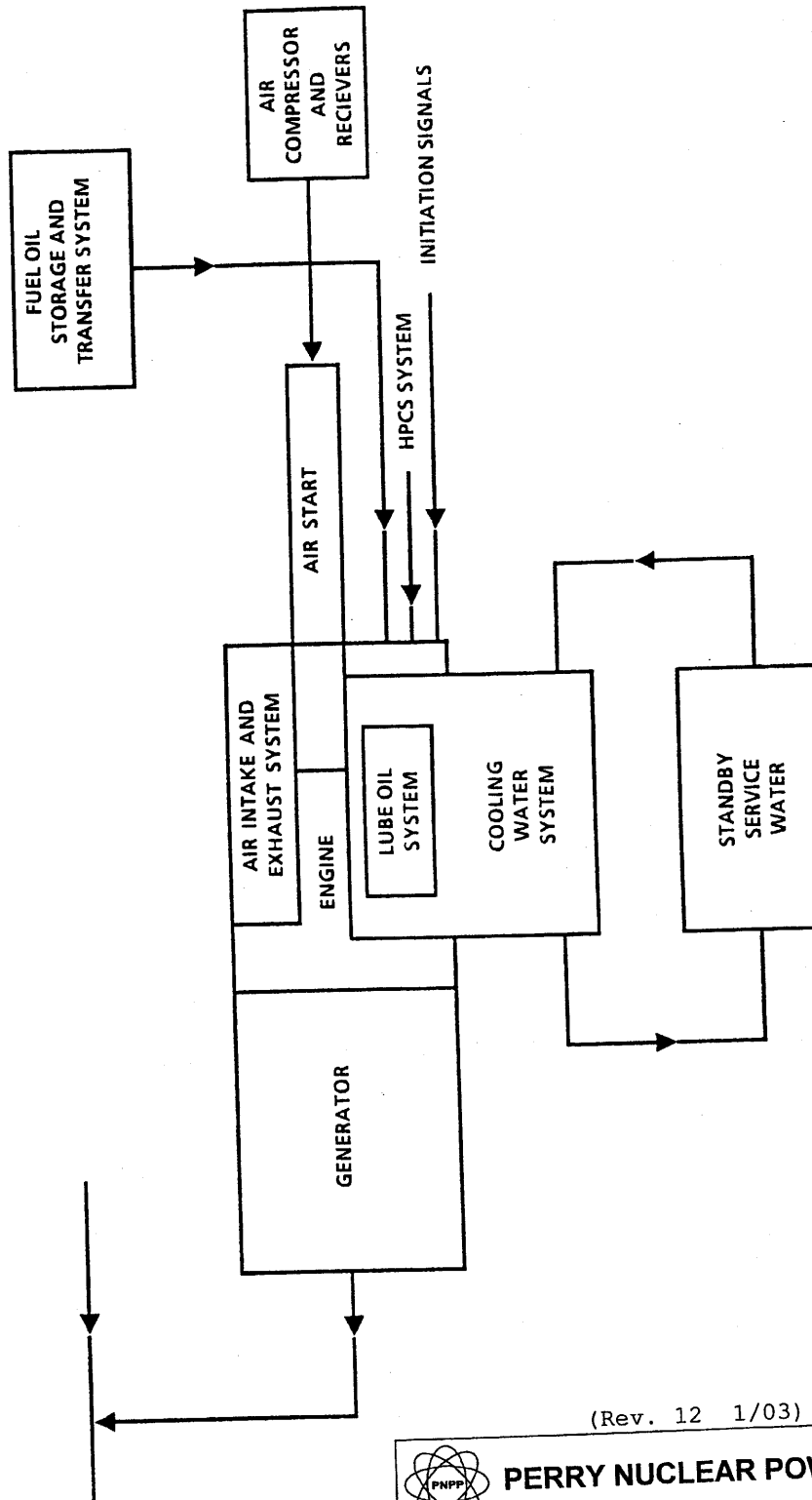
- NOTES:**
- LUBE OIL DIAGRAM AS SHOWN ON THIS DRAWING WAS DEVELOPED/REFORMATTED FROM STEWART & STEVENSON DRAWING 23303.
 - FOR VALVE/PIPING/COMPONENT MATERIAL SPECIFICATION DETAILS REFER TO STEWART & STEVENSON VENDOR MANUAL FOR 2500 KW GENERATOR SET AND ELECTROMOTIVE POWER APPLICATION AND INSTALLATION DATA (GH SERIES 645).
 - STRAINERS D5004 & D5005 ARE LOCATED IN THE SAME STRAINER ASSEMBLY.
 - DESIGN PRESSURES AND TEMPERATURES LISTED IN THIS TABLE ARE BASED ON COMPOSITE LUBE OIL COMPONENT DESIGN CONDITIONS AND ARE NOT TO BE UTILIZED FOR DIESEL INSTRUMENTATION/CONTROL SETPOINTS. REFER TO ABOVE VENDOR MANUALS FOR SETPOINT INSTRUCTIONS.
 - SYSTEM IS NON-ASME, SAFETY RELATED, DIESEL MANUFACTURER'S STANDARDS.
 - VALVES F551 AND F552 ARE AN INTEGRAL PART OF D5008 FILTER HEAD THAT IS ATTACHED TO THE ENGINE.
 - PROCESS DATA SHOWN IN THE OPERATING DATA TABLE ON THIS SYSTEM DIAGRAM SHALL BE USED IN CONJUNCTION WITH THE DESIGN BASIS INFORMATION AND SHALL BE USED WITH CAUTION. IN GENERAL, THE OPERATING DATA (PRESSURES, TEMPERATURES, AND FLOWS) PROVIDED ON THIS DRAWING, REPRESENTS THE MOST COMMON OPERATING CONDITION, AND/OR SYSTEM MODE OF OPERATION AND/OR LINEUP. TO DETERMINE THE REQUIRED VALUES FOR A SPECIFIC OPERATING CONFIGURATION, THE APPROPRIATE DESIGN DOCUMENTS NEED TO BE REVIEWED.

(Rev. 12 1/03)

PERRY NUCLEAR POWER PLANT

Division 3 Diesel Lube
Oil System Diagram

Figure 9.5-25
(Dwg. D-302-359)



(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

Functional Block Diagram of
Division 3 HPCS Diesel Generator

Figure 9.5-26