SYSTEM DATA					
ID	GPM	PSIG	°F	BY	REMARKS
3	750	35	98	AH	
4	3888	100	98	AH	
5	447	100	98	CHK	⊕⊕ GPM
7	150	100	98	AH	
8	120	100	98	AH	
9	500	87	98	AH	
13	10+	95	75	CHK	⊕⊕ GPM

⊕⊕ - DURING REGENERATION
⊕⊕ - DURING NEUTRALIZATION

VACUUM DEGASIFIER
VACUUM PUMPS
COOLING WATER

TO AUXILIARY CONDENSER CIRCULATING WATER TRENCH

TO CLARIFIER BLOWDOWN SUMP

PURCHASER'S WASTE NEUTRALIZATION TANK
100,000 GALLON
XTK-83-ON

(2) 60 GPM ACID NEUTRALIZING PUMP

FROM PURCHASER'S CONDENSATE STORAGE TANK

DEMINERALIZED WATER TANK
500,000 GALLON
XTK-68-ON

(2) 988 GPM VS 238 TDH DEMINERALIZED WATER PUMPS

FOR COOLING WATER TO VACUUM PUMPS SEE B-12 THIS DRAWING

(2) 140 CFM VACUUM PUMPS

VACUUM DEGASIFIER
750 GALLON STORAGE

MAINT. SHOP

TO TEST BENCH

MACHINE SHOP

TO OIL LAB

(2) 128 GPM VS 238 TDH REACTOR MAKEUP SUPPLY PUMPS

NOTES:

1. ALL AUTOMATIC VALVES SHOWN REQUIRE FIELD ELECTRIC AND/OR PNEUMATIC CONNECTIONS.
2. INCLUDES INTERNAL RELIEF.
3. ⊕ SOLENOID VALVE FIELD INSTALLED.
4. ITEMS DESIGNATED WITH (1) ARE FURNISHED BY EQUIPMENT SUPPLIER.
5. CLOSES ON LOW LEVEL, LOW pH & HI pH.
6. ALL SPECIFIED ROOT VALVES TO BE ¾" WITH RENOWABLE BONNET, UNLESS OTHERWISE NOTED.
7. SAMPLE CELLS TO BE LOCATED AT DEMINERALIZER ANALYZER STATION.
8. OPENS WHEN 5538 CLOSES.
9. FOR NEW DESIGN OF ACID PUMP SUCTION AND DISCHARGE PIPING SEE DRAWINGS:
   - 1HS-59-803-1
   - 1HS-59-803-2
   - 1HS-59-803-3
   (CPVC PLASTIC LINED ACID PIPE)
10. PER CO99-10843-DE AND CO99-10857-DE, DRAWER DRAWING Y-0259-4 (HS-59-888-15, REV. 6D) HAS BEEN REISSUED UNDER E-382-163, REV. 11, AND E-832-164, REV. 8 THIS DRAWING REFLECTS ORIGINAL DRAWER DESIGN INFORMATION.
11. XSR8865-ON - LOCAL CONTROL PANEL CS3
12. HEAT TRACING PROVIDED ON ABOVE GROUND PIPING FOR FREEZE PROTECTION.
13. VALVES MANUFACTURED PER THE REQUIREMENTS OF ASTM-B-62 AND MHS-SF-68
14. XYT85548 AND PIPING FROM XYT85548 TO 1FE8222 ARE STAINLESS STEEL.
15. RED RUBBER HOSE (TYPICAL (3) PLACES) RATED AT △ 128 P.S.I.G.

ESSENTIAL

RN 09-014
May 2010

DRAWING LEGIBILITY
CLASS 1

HYDRO TEST TEMP.- AMBIENT									
3	68	75	65	68	CIC	98	GHX		
2	98	98	100	95	CIC	125	GHX		
1	100	98	130	95	CIC	225	GHX		
#	PSIG	°F	PSIG	°F	DURA.	HY-DRO	BY	CHKD	REMARKS
	NORMAL		UPSET						
DESIGN DATA									

1/4"=1'-0"
0' 5' 10' 15' 20'

NO.	DATE	BY	REVISION	CKD. BY	LE APPROVAL
17	8/24/16	RHM	REVISED PER ECR-59550	MGR	RAT
16	2/28/12	JTS	REVISED PER ECR-70098	MGR	AME
15	2/5/11	JTS	REVISED PER ECR-58163	MGR	PJK
20	11/28/07	RHM	REVISED PER ECR-58495	RHM	TF
19	7/17/07	DDJ	REVISED PER ECR-71007	MGR	DDJ
18	3/07/06	RHM	REVISED PER ECR-70785	MGR	RHM

FSAR FIGURE 9.2-9b

SOUTH CAROLINA ELECTRIC & GAS COMPANY

VOGTLE C. SUMMER NUCLEAR STATION

PIPING SYSTEM FLOW DIAGRAM

DEMINERALIZED WATER

DESIGN ENGINEERING
V. C. SUMMER NUCLEAR STATION JENKINSVILLE, S. C.

DRAWN	CHECKED	LE APPROVAL
AVN	MGR	DJC

SCALE: NO SCALE | D-302-164 | SHT. NUMBER 1 | REV 20