SYSTEM DATA					
#	MAX. GPM	PSIG	*°F	BY	REMARKS
1	11,915	30	120		MAX SUPPLY TEMP = 120 °F
2	11,860	105	120		
3	6,145	100	120		
4	5,680	70	155		DURING SINGLE LOOP PLANT COOLDOWN WITH WASTE AND RECYCLE EVAPORATORS SECURED AND 95°F SERVICE WATER
5	1,887	100	120		
6	4,960	100	120		
7	40	100	120		
8	6,145	70	135		
9	40	70	135		
10	11,860	70	145		

ESF LOADING SEQUENCE

COMPONENT COOLING HEAT EXCHANGER

RESIDUAL HEAT REMOVAL HEAT EXCHANGER XHE-5A-RH

RESIDUAL HEAT REMOVAL HEAT EXCHANGER XHE-5B-RH

REACTOR COOLANT

CHEMICAL INJECTION TANK RI-3F

LO LO TRIP PUMP

COMPONENT COOLING SURGE TANK

COMPONENT COOLING PUMPS 11,700 GPM@165 TDH 3-100%

CHEM. FEED TO SURGE TANK

COMPONENT COOLING REAC. BLDG.

COMPONENT COOLING REACTOR BLDG.

COMPONENT COOLING AUX. BLDG.

START STAND BY PUMP

LOCAL SAMPLE

VLV. LINE-UP INCORRECT

ESSENTIAL

NOTES:

1. ALL NUC. SAFETY CLASS PIPING TO BE LINE SPEC 152N.
2. ALL NON-NUC. SAFETY CLASS PIPING EXCEPT THAT SUPPLIED BY CHEM. INJ. SYSTEM VENDOR, OR AS INDICATED OTHERWISE, TO BE LINE SPEC. 151X.
3. * DENOTES MISSION "DUO-CHEK" OR EQUAL.
4. ALL PIPING TO BE ANS. SAFETY CLASS 2b EXCEPT AS NOTED.
5. ITEMS DESIGNATED WITH (f) ARE FURNISHED BY EQUIP. SUPPLIER.
6. ALL ◇STATUS LIGHTS INDICATE BOTH OPEN AND CLOSED UNLESS NOTED OTHERWISE.
7. BENCH SET PRESSURE OF 120 PSIG + 30 PSIG BACK PRESURE = DESIGN SET PRESSURE OF 150 PSIG.

NOTE:

A. TEMPORARY STRAINER FOR SYSTEM CLEAN UP. TO BE REMOVED AFTER FINAL FLUSH.

RN 12-014

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

* - CONDITION AT TOP OF C.C. SURGE TANK HYDRO TEMP - COLD WATER

15	30	160	150	160					
6-14	120	160	150	160	160	2 HR	1½	DTK	
5									NOT USED
4	30	100	100	200			15Ø	GHR	NOT SAFETY RELATED
3	15	2Ø0	15	2Ø0			1½	DTK	
2	12Ø	160	150	heat	2 HR		15Ø	DTK	
1	30	160	30	160	2 HR		4Ø	DTK	

#	PSIG	°F	PSIG	°F	DURA.	NF-ORD	BY	CHKD	REMARKS
	NORMAL		UPSET						
	DESIGN DATA								

1/4"= 1'-0" (8' 5' 10' 15' 20')

NO.	DATE	BY	REVISION	CKD. BY	LE APPROVAL
35	05/15/05	TGB	REVISED PER ECR-50469	RAT	BB
34	05/02/05	JTS	REVISED PER ECR-50469	JRP	AME
39	1/6/00	JNC	REVISED PER ECR-71215	PAH	MOC
38	8/30/97	JMR	CADD ENHANCED PER ECR-50239	MGR	DJ
37	11/9/96	JMR	REVISED PER ECR-70724	MGR	MG
36	06/08/05	JTS	REVISED PER ECR-50469	MGR	AME

FSAR FIGURE 9.2-4

SOUTH CAROLINA ELECTRIC & GAS COMPANY

VIRGIL C. SUMMER NUCLEAR STATION

PIPING SYSTEM FLOW DIAGRAM

COMPONENT COOLING

DESIGN ENGINEERING

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

MADE	CHECKED	LE APPROVAL
1. SRM	2. MGR	3. RLJ

SCALE NO SCALE | D-302-611 | 39

DRAWING NUMBER | SHT. NUMBER | REV