NO	GPM	PSIG	°F	BY	REMARKS
1	1800	50	150	WTW	
2	1800	50	150	WTW	
3	180	100	135	WTW	

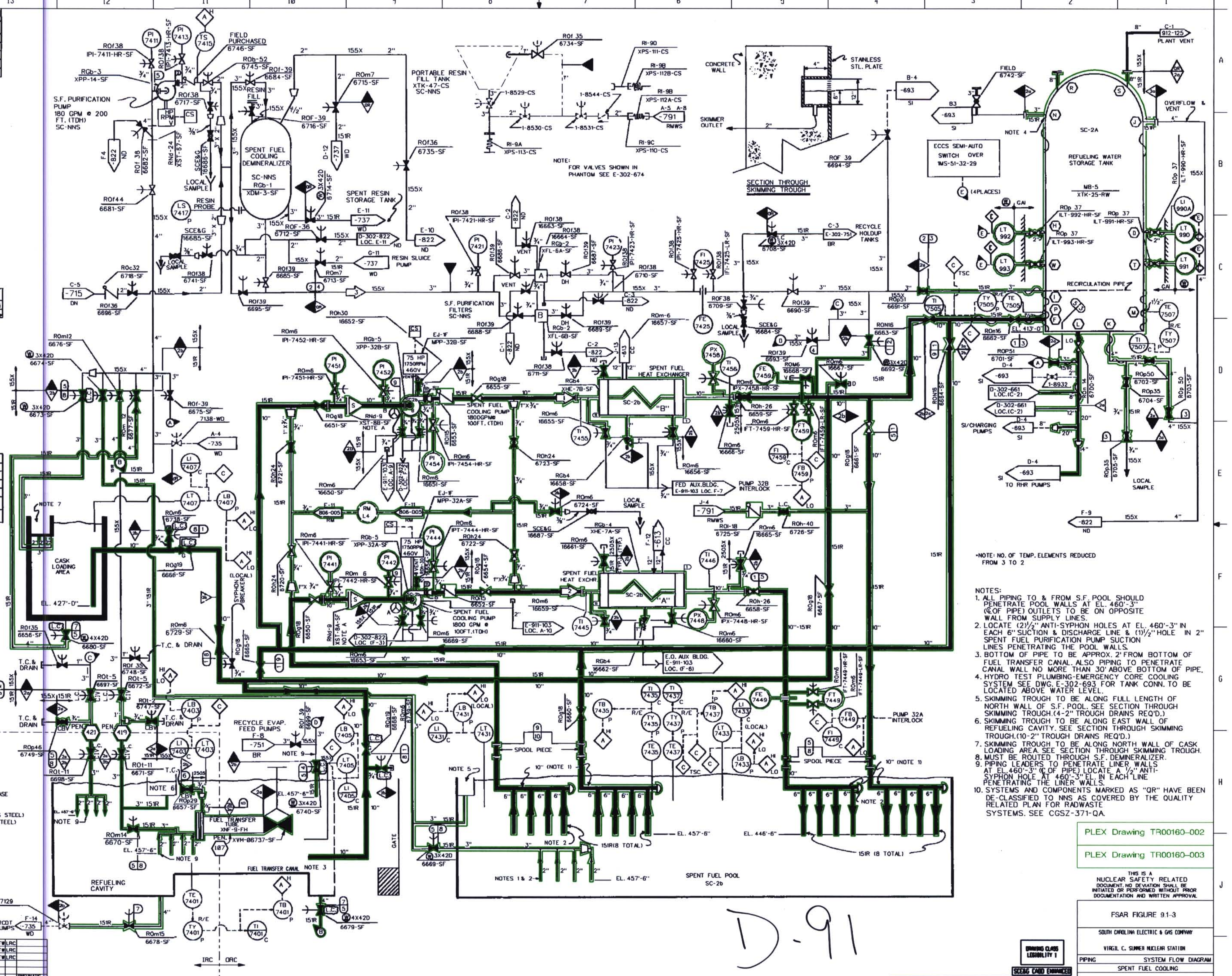
SYSTEM DATA

SAFETY CLASS VERIFICATION	
ORIGINATED BY	P. Ramsey 9/3/79
REVIEWED BY	[illegible]

SYSTEM SUFFIX	FIRST NO.	LAST NO.
SF	16650	16687
SF	6650	6749

VALVE NUMBERING

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



* HYDRO NOT REQ'D PER N-240 CODE CASE
** STANDING WATER HYDRO
*** HYDRO TEMP. 40°F MIN. (STAINLESS STEEL) 60°F MIN. (CARBON STEEL)

NO	NORMAL PSIG	NORMAL °F	UPSET PSIG	UPSET °F	DURATION	HYDRO PSIG	HYDRO TEMP.	BY	CKD	REMARKS
11	77	150	84	200	<1%	105		WTW	LRC	
10	35	150	35	200	<1%	44		WTW	LRC	
9	35	150	35	200				WTW	LRC	
8	35	140	35	150	<1%	*	***			
7	26	140	26	150	<1%	**	***			
6	60	120	60	150	<1%	75	***			PNEUMATIC TEST
5	35	140	35	150		44	***			
4	35	140	150	150		188	***			
3	22	120	22	120		*	***			
2	110	140	118	150	<1%	148	***			
1	77	140	84	150	<1%	105	***			

DESIGN DATA

1/4" = 1'-0"

*NOTE: NO. OF TEMP. ELEMENTS REDUCED FROM 3 TO 2

NOTES:
1. ALL PIPING TO & FROM S.F. POOL SHOULD PENETRATE POOL WALLS AT EL. 460'-3" (℄ OF PIPE) OUTLETS TO BE ON OPPOSITE WALL FROM SUPPLY LINES.
2. LOCATE (2) 1/2" ANTI-SYPHON HOLES AT EL. 460'-3" IN EACH 6" SUCTION & DISCHARGE LINE & (1) 1/2" HOLE IN 2" SPENT FUEL PURIFICATION PUMP SUCTION LINES PENETRATING THE POOL WALLS.
3. BOTTOM OF PIPE TO BE APPROX. 2' FROM BOTTOM OF FUEL TRANSFER CANAL. ALSO PIPING TO PENETRATE CANAL WALL NO MORE THAN 30' ABOVE BOTTOM OF PIPE.
4. HYDRO TEST PLUMBING-EMERGENCY CORE COOLING SYSTEM SEE DWG. E-302-693 FOR TANK CONN. TO BE LOCATED ABOVE WATER LEVEL.
5. SKIMMING TROUGH TO BE ALONG FULL LENGTH OF NORTH WALL OF S.F. POOL. SEE SECTION THROUGH SKIMMING TROUGH. (4-2" TROUGH DRAINS REQ'D.)
6. SKIMMING TROUGH TO BE ALONG EAST WALL OF REFUELING CAVITY. SEE SECTION THROUGH SKIMMING TROUGH. (10-2" TROUGH DRAINS REQ'D.)
7. SKIMMING TROUGH TO BE ALONG NORTH WALL OF CASK LOADING AREA. SEE SECTION THROUGH SKIMMING TROUGH.
8. MUST BE ROUTED THROUGH S.F. DEMINERALIZER.
9. PIPING LEADERS TO PENETRATE LINER WALLS AT EL. 460'-3" (℄ OF PIPE) LOCATE A 1/2" ANTI-SYPHON HOLE AT 460'-3" EL. IN EACH LINE PENETRATING THE LINER WALLS.
10. SYSTEMS AND COMPONENTS MARKED AS "QR" HAVE BEEN DE-CLASSIFIED TO NNS AS COVERED BY THE QUALITY RELATED PLAN FOR RADWASTE SYSTEMS. SEE CGSZ-371-QA.

PLEX Drawing TR00160-002

PLEX Drawing TR00160-003

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

D-91

DRAWING CLASS LEGIBILITY 1

SCE&G CADD ENHANCED

NO.	DATE	BY	REVISION	CKD. BY	LE APPROVAL
39	6/29/00	TGB	REVISED PER ECR-50212	MGR	LB
35	05/02/96	AVN	REVISED PER MRF-90102	JMG	GVM
34	10/26/95	AVN	REVISED PER MRF-22640	MGR	JEW
38	01/07/98	JTS	REVISED PER CGSS-97-0569	LEK	MGR
37	08/12/97	JMR	REVISED PER CGSS-97-0247	MGR	LRC
36	02/29/96	JTS	REVISED PER MRF-22746	MGR	TLW

FSAR FIGURE 9.1-3

SOUTH CAROLINA ELECTRIC & GAS COMPANY

VIRGIL C. SUMMER NUCLEAR STATION

PIPING SYSTEM FLOW DIAGRAM

SPENT FUEL COOLING

DESIGN ENGINEERING

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

MADE	CHECKED	LE APPROVAL
ACI	RHM	ROB

SCALE	DRAWING NUMBER	SHT. NUMBER	REV
NO SCALE	D-302-651		39