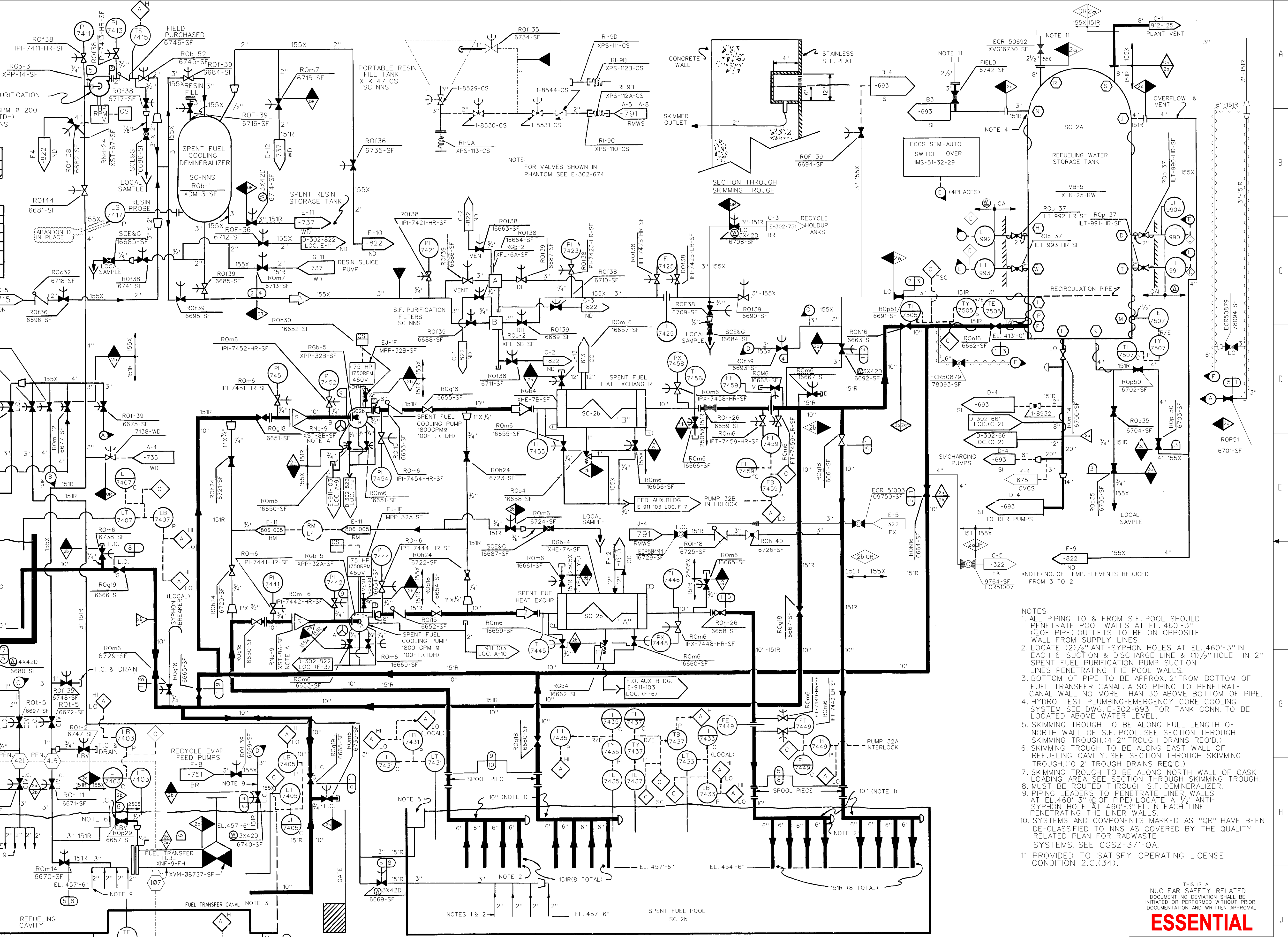


SYSTEM DATA					
NO.	GPM	PSIG	°F	WTW	REMARKS
1	1800	50	150	WTW	
2	1800	50	150	WTW	
3	180	100	135	WTW	

SAFETY CLASS VERIFICATION
 ORIGINATED BY: P Ramsey 9/3/74
 REVIEWED BY: J.L. Gentry 9/12/74

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

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



- NOTES:
- ALL PIPING TO & FROM S.F. POOL SHOULD PENETRATE POOL WALLS AT EL. 460'-3" (COF PIPE) OUTLETS TO BE ON OPPOSITE WALL FROM SUPPLY LINES.
 - 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.
 - 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.
 - HYDRO TEST PLUMBING-EMERGENCY CORE COOLING SYSTEM SEE DWG. E-302-693 FOR TANK CONN. TO BE LOCATED ABOVE WATER LEVEL.
 - 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.)
 - SKIMMING TROUGH TO BE ALONG EAST WALL OF REFUELING CAVITY. SEE SECTION THROUGH SKIMMING TROUGH. (10'-2" TROUGH DRAINS REQ'D.)
 - SKIMMING TROUGH TO BE ALONG NORTH WALL OF CASK LOADING AREA. SEE SECTION THROUGH SKIMMING TROUGH.
 - MUST BE ROUTED THROUGH S.F. DEMINERALIZER.
 - PIPING LEADERS TO PENETRATE LINER WALLS AT EL. 460'-3" (COF PIPE) LOCATE A 1/2" ANTI-SYPHON HOLE AT 460'-3" EL. IN EACH LINE PENETRATING THE LINER WALLS.
 - SYSTEMS AND COMPONENTS MARKED AS "OR" HAVE BEEN DECLASSIFIED TO NNS AS COVERED BY THE QUALITY RELATED PLAN FOR RADWASTE SYSTEMS. SEE CGSZ-371-0A.
 - PROVIDED TO SATISFY OPERATING LICENSE CONDITION 2.C.(34).

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

ESSENTIAL

FSAR FIGURE 9.1-3

SOUTH CAROLINA ELECTRIC & GAS COMPANY
 VIROL C. SUMNER NUCLEAR STATION
 PIPING SYSTEM FLOW DIAGRAM
 SPENT FUEL COOLING

NO.	PSIG	°F	DURATION	HYDRO	BY	REMARKS	
11	77	150	84	200	< 1/2	105	WTW/LRC
10	35	150	35	200	< 1/2	44	WTW/LRC
9	35	150	35	200	< 1/2	44	WTW/LRC
8	35	140	35	150	< 1/2	x	x x x x
7	28	140	26	150	< 1/2	x	x x x x
6	60	120	60	150	< 1/2	75	x x x x
5	35	140	35	150	< 1/2	44	x x x x
4	35	140	150	150	< 1/2	188	x x x x
3	22	120	22	120	< 1/2	x	x x x x
2	110	140	118	150	< 1/2	148	x x x x
1	77	140	84	150	< 1/2	105	x x x x

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

NO.	DATE	BY	REVISION	CHKD.	APPROVAL
51	04/22/02	CMS	REVISED PER ECR-72411	chk	MEM
50	02/29/06	JMR	REVISED PER ECR-51007	RHM	NG
49	02/07/06	KO	REVISED PER ECR-51007	MGR	AF
48	07/01/06	GGS	REVISED PER ECR-50879	JNC	CR
47	03/03/06	ESB	REVISED PER ECR-50879	GGS	CR
46	08/02/06	JTS	REVISED PER ECR-51007	MGR	AF

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46	08/02/06	JTS	REVISED PER ECR-51007	MGR	AF

NO. DATE BY REVISION CHKD. BY APPROVAL