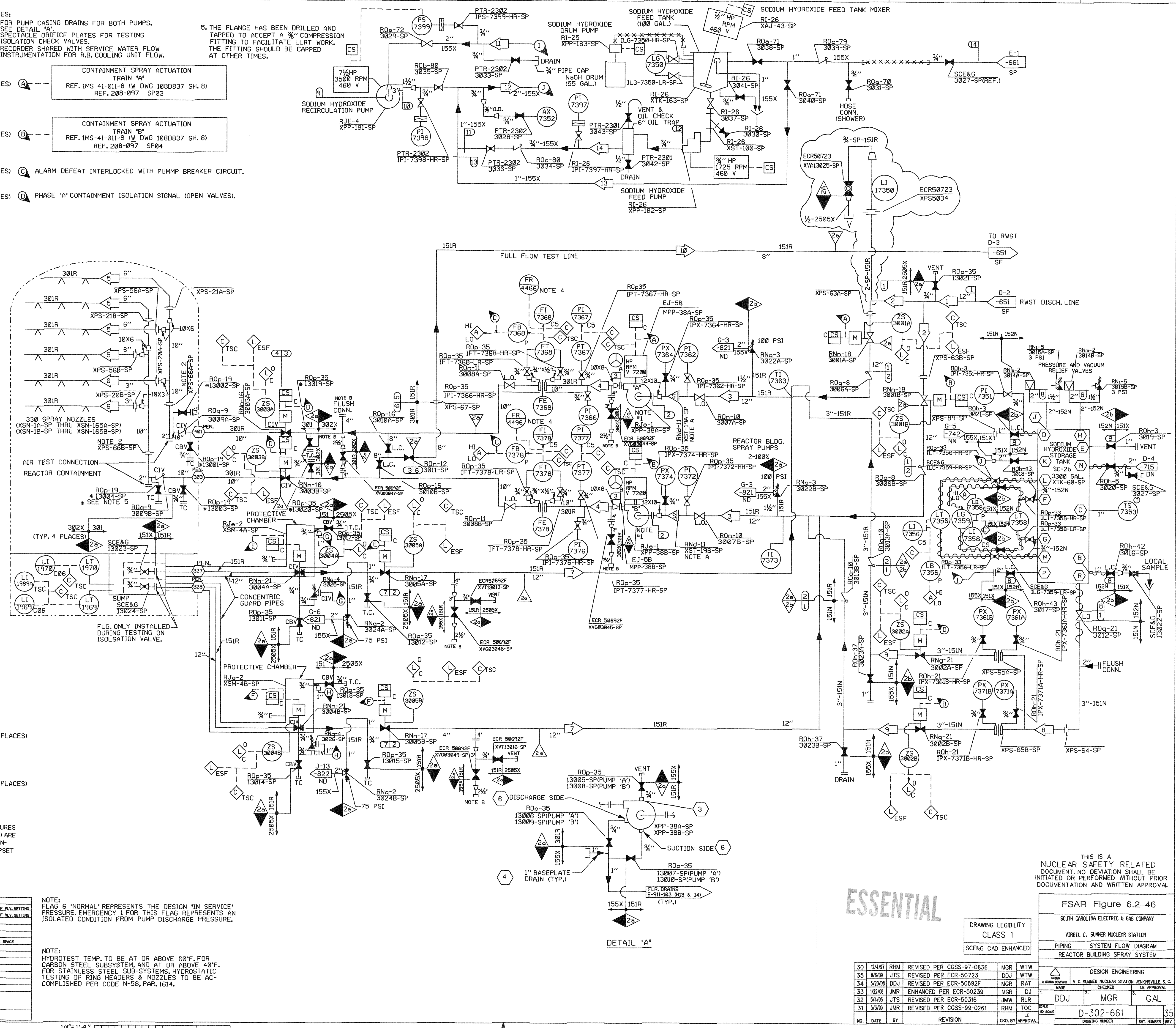


SYSTEM DATA				
#	GPM	PSIG	°F	BY
1	4900	26	120	KRC
2	2450	31	120	KRC
3	2500	44	120	KRC INJECTION
4	2500	44	196	KRC RECIRC.
5	2500	230	120	KRC INJECTION
6	2500	230	196	KRC RECIRC.
7	1214	97	120	KRC INJECTION
8	76	97	120	KRC INJECTION
9	76	97	196	KRC RECIRC.
10	2500	35	196	KRC
11	100	27	100	**
12	100	42	100	**
13	50	70	100	**
14	10,567	50	100	**

- NOTES:
- FOR PUMP CASING DRAINS FOR BOTH PUMPS, SEE DETAIL "A".
 - SPECTACLE ORIFICE PLATES FOR TESTING ISOLATION CHECK VALVES.
 - RECORDER SHARED WITH SERVICE WATER FLOW INSTRUMENTATION FOR R.B. COOLING UNIT FLOW.
- (2 PLACES) (A) CONTAINMENT SPRAY ACTUATION TRAIN "A" REF. 1MS-41-011-8 (W. DWG 108D837 SH. 8) REF. 208-097 SP03
- (2 PLACES) (B) CONTAINMENT SPRAY ACTUATION TRAIN "B" REF. 1MS-41-011-9 (W. DWG 108D837 SH. 8) REF. 208-097 SP04
- (2 PLACES) (C) ALARM DEFEAT INTERLOCKED WITH PUMPP BREAKER CIRCUIT.
- (4 PLACES) (D) PHASE "A" CONTAINMENT ISOLATION SIGNAL (OPEN VALVES).

* MAXIMUM FLOW WITH BOTH PUMPS OPERATING.
 ** MAXIMUM FLOW WITH ONE PUMP OPERATING.

- NOTE:
- TEMPORARY STRAINER FOR SYS. CLEAN UP TO BE REMOVED AFTER FINAL FLUSH.
 - HOSE/FLUSH CONNECTION PROVIDED OR AVAILABLE TO SATISFY OPERATING LICENSE CONDITION 2.C.(34).



- (2 PLACES) (E) RECIRCULATION SUMP AUTO SWITCHOVER LOGIC 'TRAIN A' REF. 208-097 SP09, SP11
- (2 PLACES) (E) RECIRCULATION SUMP AUTO SWITCHOVER LOGIC 'TRAIN B' REF. 208-097 SP18, SP12

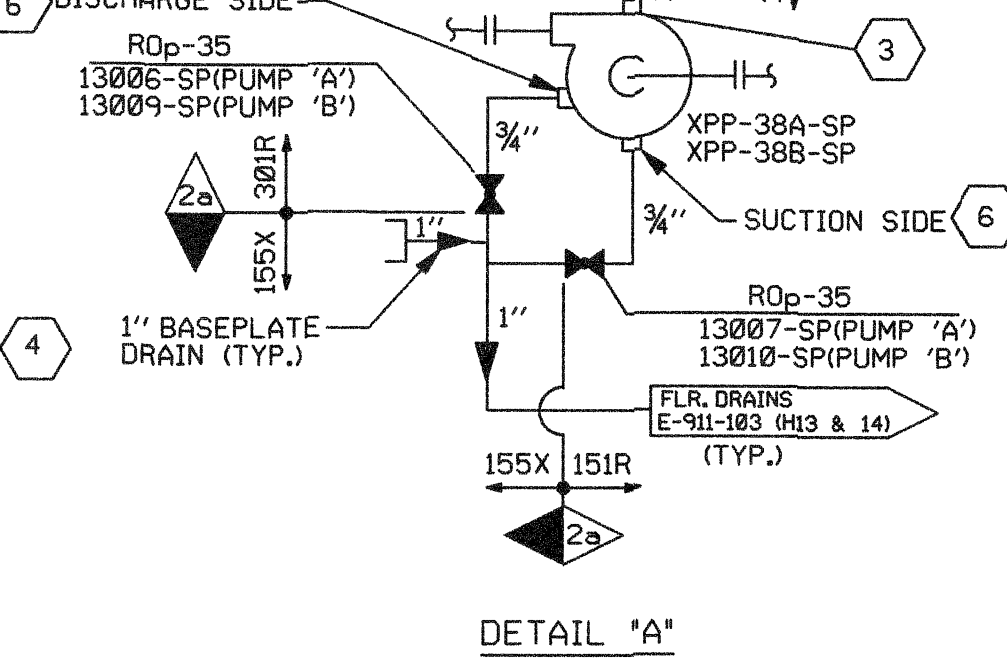
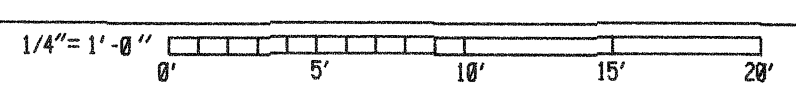
NOTE: WHEN APPLICABLE, THE NORMAL DESIGN PRESSURES & TEMPERATURES (ESPECIALLY TEMPERATURES) ARE THE WORST CONDITIONS THAT EXIST DURING INJECTION PHASE OF SAFETY INJECTION. THE UPSET CONDITIONS ARE THE WORST CONDITIONS FOR RECIRCULATION.

#	DATE	BY	REVISION	CHK. BY	APPROVAL
30	04/97	RHM	REVISED PER CGSS-97-0636	MGR	WTW
35	10/09	JTS	REVISED PER ECR-50723	DDJ	WTW
34	5/20/08	DDJ	REVISED PER ECR-50692F	MGR	RAT
33	1/22/08	JMR	ENHANCED PER ECR-50239	MGR	DJ
32	5/4/05	JTS	REVISED PER ECR-50316	JMW	RLR
31	5/3/99	JMR	REVISED PER CGSS-99-0261	RHM	TOC

14	13	12	11	10	9	8	7	6	5	4	3	2	1
100	100	110	150	165									
130	100	110	150	165									
125*	100	150	100	225									
11	125*	100	150	100	225								
10	35	120	45	120	157.5								
9	7	120	3	120									
8	3*	120	3*	120	4*	PLI							
7	ATM	120	70	250	88	DTK							
6	225	120	45	120	282	DTK							
5	45	120	45	120	57	ECC							
4	ATM	120	165	250	207	DTK							
3	225	120	245	250	307	ECC							
2	45	120	80	250	100	ECC							
1	30	120	35	120	44	ECC							

NOTE: FLAG 6 'NORMAL' REPRESENTS THE DESIGN 'IN SERVICE' PRESSURE. EMERGENCY 1 FOR THIS FLAG REPRESENTS AN ISOLATED CONDITION FROM PUMP DISCHARGE PRESSURE.

NOTE: HYDROTEST TEMP. TO BE AT OR ABOVE 60°F. FOR CARBON STEEL SUBSYSTEM, AND AT OR ABOVE 40°F. FOR STAINLESS STEEL SUB-SYSTEMS. HYDROSTATIC TESTING OF RING HEADERS & NOZZLES TO BE ACCOMPLISHED PER CODE N-58, PAR. 1614.



ESSENTIAL

DRAWING LEGIBILITY CLASS 1
 SCE&G CAD ENHANCED

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

FSAR Figure 6.2-46			
SOUTH CAROLINA ELECTRIC & GAS COMPANY			
VIRGIL C. SUMNER NUCLEAR STATION			
PIPING SYSTEM FLOW DIAGRAM			
REACTOR BUILDING SPRAY SYSTEM			
DESIGN ENGINEERING			
V.C. SUMNER NUCLEAR STATION, ANDERSONVILLE, S.C.			
CHECKED: DDJ MGR GAL			
DRAWING NUMBER: D-302-661			
SHEET NUMBER: 35			