NOTES:

1. THIS DRAWING IS BASED UPON DWG. 114E073, SHEET 3 OF 5, REVISION 16 ("BASE DRAWING") OF WESTINGHOUSE ELECTRIC CORPORATION, NUCLEAR ENERGY SYSTEMS, PITTSBURGH, PA WHO IS SOLELY RESPONSIBLE FOR THE ACCURACY OR THE RELIABILITY OF THE DESIGN INFORMATION SET FORTH IN THE BASE DRAWING.
2. FOR ALPHA REFERENCES, SEE DWG. E-302-002, FLOW DIAGRAM LEGEND.
3. FOR CONTINUATION, SEE DWG. D-302-823.
4. FOR CONVENTIONAL PIPING SPECIFICATIONS, SEE GAI SPECIFICATION SP-329-446I-00, PAGE 29, (WESTINGHOUSE PIPE CLASS CONVERSION TO ENGINEER'S PIPE LINE SPECIFICATION.
5. SYSTEMS AND COMPONENTS MARKED AS OR OR OR-G HAVE BEEN DECLASSIFIED TO QUALITY RELATED AS COVERED BY ORP-1.
6. TEMPORARY STRAINER IS PLACED IN SPOOL PIECE DURING INITIAL FLUSHING OPERATIONS. STRAINER MUST BE REMOVED BEFORE PLANT START-UP. STRAINER AND SPOOL PIECE SUPPLIED BY OTHERS. ¾" CAPPED LINE IS CONNECTED TO PRESSURE GAUGE DURING INITIAL FLUSHING.
7. PRIOR HYDRO PRESSURES WERE BASED ON DESIGN FLAG 8 VALUES. HYDRO TESTING IS NOT REQUIRED PER ASME CODE SECTION XI SINCE AN OPEN FLOW PATH EXISTS.
8. CONTROL AIR IS NORMALLY REMOVED
9. PIPING FROM BLENDER TO THE CHARGING PUMP SUCTION HEADER MUST NOT EXCEED 50' IN TOTAL LENGTH.
12. WASTE GAS LINES WHICH HAVE THE POTENTIAL OF CARRYING COMBUSTIBLE CONCENTRATION GAS MIXTURES SHALL BE SEISMICALLY SUPPORTED.
13. THIS VALVE IS EQUIPPED WITH A FAST OPERATOR, HOWEVER, THE STROKE TIME MAY EXTEND BEYOND WESTINGHOUSE EQUIPMENT SPECIFICATION 677473. FOR DETAILS REFER TO FCN CGCO-10684.
14.
15. THIS FLANGE HAS BEEN DRILLED AND TAPPED TO ACCEPT A ¾" COMPRESSION FITTING TO FACILITATE LLRT WORK. THE FITTINGS SHOULD BE CAPPED AT OTHER TIMES.

CS	18101	18542
TR	17001	17020
CV	CV-1	CV-65
SYSTEM SUFFIX	FIRST NO.	LAST NO.
VALVE NUMBERING		

	NORMAL		UPSET				
P	PSIG	°F	PSIG	°F		DURATION	HYDRO *
29	2890	120	2900	120	<1%		
28	220	120	220	120	<1%		
27	30	120	30	120	<1%		
24	39	117	223	250	<1%		NOTE 7
21	45	115	140	220	<1%		190
16	15	115	150	200	<1%		190
15	40	150	150	200	<1%		190
12	2890	130	2900	300	<1%		3625
10	2890	130	2900	250	<1%		3625
9	115	115	170	300	<1%		215
8	105	115	115	250	<1%		145
7	90	117	300	250	<1%		290

HYDROTEST TEMP. 40°F (MIN.)

DESIGN DATA

* HYDROTEST PRESSURES FOR NEW CONSTRUCTION PER ASME CODE SECTION III

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

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

FSAR Figure 9.3-16 SHT. 3

SOUTH CAROLINA ELECTRIC & GAS COMPANY
VIRGIL C. SUMMER NUCLEAR STATION
PIPING — SYSTEM FLOW DIAGRAM
CHEMICAL AND VOLUME CONTROL
DESIGN ENGINEERING
J. A. JONES CONSTRUCTION — V. C. SUMMER NUCLEAR STATION, JENKINSVILLE, S. C. — CHECKED — YE ARROYO
DDJ | MGR | GAL
E-302-675 | 37

DRAWING LEGIBILITY CLASS 1

NO.	DATE	BY	REVISION	ORG. BY	APPROVAL
32	5/5/15	RHM	REVISED PER ECR-50780	MGR	SY
37	7/2/18	JMR	REVISED PER ECR-72379	AME	JR
36	3/29/18	JMR	REVISED PER ECR-51007	MGR	NG
35	03/17/6	KG	REVISED PER ECR-51007	RHM	NG
34	9/7/5	RHM	REVISED PER ECR-51007	MGR	AF
33	8/8/03	DDJ	REVISED PER ECR50780C	DDJ	DR

ESSENTIAL