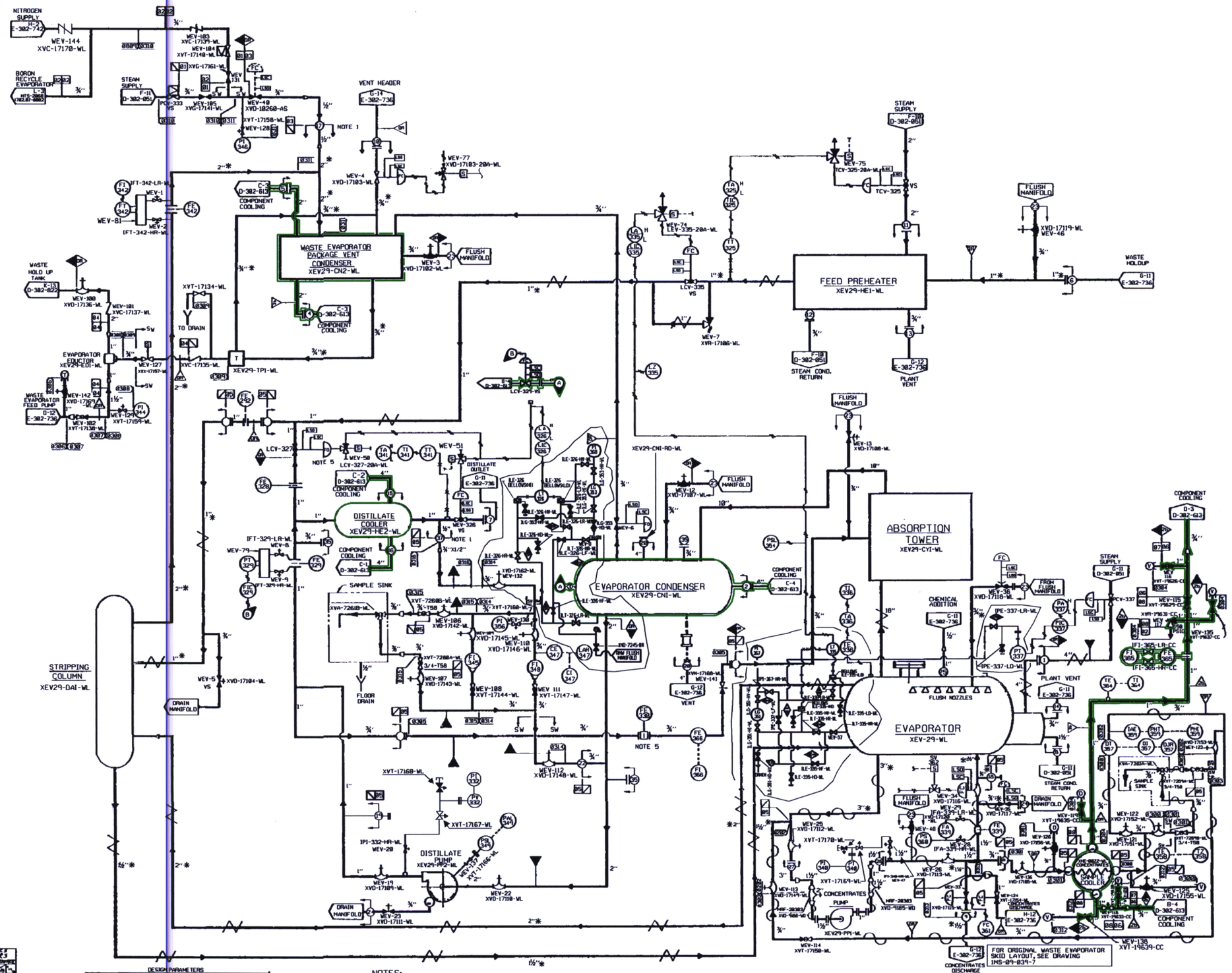

ITEM	DESCRIPTION
1	EVAPORATOR STEAM INLET
2	EVAPORATOR CONDENSER COOLING WATER INLET
3	EVAPORATOR CONDENSER COOLING WATER OUTLET
4	VENT CONDENSER COOLING WATER INLET
5	VENT CONDENSER COOLING WATER OUTLET
6	FEED INLET
7	DISTILLATE OUTLET
8	CONDENSATE OUTLET
9	CONCENTRATED BORIC ACID OUTLET
10	CONDENSER VENT (TO VENT HEADER)
11	FEED PREHEATER STEAM INLET
12	FEED PREHEATER CONDENSATE OUTLET
13	FEED PREHEATER VENT (TO PLANT VENT)
14	EVAPORATOR CHAMBER VENT (TO PLANT VENT)
15	DISTILLATE COOLING WATER INLET
16	DISTILLATE COOLING WATER OUTLET
17	STEAM SUPPLY
18	CONCENTRATE SAMPLE LINE IN
19	DISTILLATE SAMPLE LINE OUT
20	RUPTURE DISC
21	CONCENTRATE SAMPLE LINE OUT
22	DISTILLATE SAMPLE LINE
23	FLUSH MANIFOLD
24	DRAIN MANIFOLD
25	CHEMICAL ADDITION NOZZLE
26	CONCENTRATE PUMP DISCHARGE
27	CONCENTRATE PUMP SUCTION
28	
29	
30	
31	
32	
33	
34	
35	PLUGGED
36	
37	

DWG. NO. MTS-2060-1702.07-0001 REV 16

NOTES:

1. ~ LINES HEAT TRACED BY OTHERS. (WASTE EVAPORATOR ONLY)
2. ALL LINES MARKED "*" ARE CLASS 151R, THIS IS A DESIGNATION ONLY & NO ADDITIONAL INSPECTION HAS BEEN PERFORMED ON THIS PIPING. ALL OTHER PIPE IS CLASS 151, EXCEPT AS NOTED IN DESIGN PARAMETERS ON DWG. MS-09-230-16.
3. SYSTEM LOGIC DEALING WITH SOLENOID VALVES CAN BE FOUND ON THE APPROPRIATE ELECTRICAL OR PNEUMATIC DIAGRAMS.
4. T.P. INDICATES "TERMINAL POINT".
5.

SOLENOID	AIR SUPPLY	VALVE ACTION ("FO")
ENERGIZED	ON	OPEN
DE-ENERGIZED	ON	CLOSED
ENERGIZED	OFF	OPEN
DE-ENERGIZED	OFF	OPEN

"FAIL OPEN" REFERS TO AIR FAILURE ONLY (NOT ELECTRICAL FAILURE).

6. BLOCKED PORT ON SOLENOID INDICATES NORMAL MODE OF OPERATION.
7. ALL ELECTRICAL, PNEUMATIC AND FLUSH AND DRAIN CONNECTIONS ARE MANIFOLDED (NOT SHOWN THIS DWG.). TO INSURE PROPER OPERATION, TE-336 HAS NOT BEEN MANIFOLDED AND WIRING SHOULD BE MADE DIRECTLY TO THE THERMOCOUPLE.
8. EVAPORATOR (PCV-337), FEED PREHEATER (TCV-325), STEAM INLET VALVES AND THE EVAPORATOR CONDENSER (FCV-329) COOLING WATER VALVE ARE SUPPLIED LOOSE AND MUST BE INSTALLED IN THE SUPPLY PIPING (BY OTHERS). A STEAM REGULATING VALVE & STRAINER WILL ALSO BE SUPPLIED LOOSE AND MUST BE INSTALLED IN THE PIPING LEADING ITEM 75 BY OTHERS IN THE FIELD.

WNES SPIN NO: RWEVWE - 01; WPEVWD - 01

PLEX Drawing TR00160-002

PLEX Drawing TR00160-003

DRAWING LEGIBILITY CLASS 1

RADWASTE CLASS
NUCLEAR SAFETY RELATED

SOUTH CAROLINA ELECTRIC AND GAS CO.
DUKE POWER COMPANY
V. C. SUMMER NUCLEAR STATION UNIT 1

FLOW DIAGRAM
WASTE EVAPORATOR PACKAGE
SHORT TERM MODIFICATIONS

SCALE: | DWG. NO. MTS-2060-1702.07-0001 | REV 5G

NO.	DATE	BY	REVISION	CHD. BY	LE APPROVAL
5	8/5/98	JMP	REVISED PER ECR-50241	MGR	LEK
4	9/1/98	JTS	REVISED PER CGSS-97-0662	MGR	LEK
3	7/1/98	RHM	REVISED PER CGSS-98-0277	MGR	WMD
2	05-11-92	AVH	ADDED RUPTURE DISK (S) AS PER CGSS-2038-SE	RHM	WDS

DESIGN ENGINEERING
V. C. SUMMER NUCLEAR STATION JOHNSVILLE S. C.
DESIGNED: A.V.N. | DRAWN: R.H.M. | TRACED: W.D.S.
MTS-09-238 | SHT. NUMBER 16 | REV 5

DESIGN PARAMETERS

LINE NO.	PRESSURE	TEMPERATURE	MATERIAL	CLASS	PIPE SPEC.
01	150 PSIG	350 °F	CS	N/A	151X
02	150 PSIG	298 °F	CS	N/A	150X
03	150 PSIG	350 °F	SS	NNS	153X
04	150 PSIG	298 °F	SS	NNS	153X
05	150 PSIG	298 °F	SS	NNS	153X
06	150 PSIG	198 °F	CS	26	152M
07	150 PSIG	198 °F	ST	NNS	256SX
08	150 PSIG	298 °F	CS	26	152M

NOTES:
1. EXISTING WESTINGHOUSE SKID PIPE CONNECTION
2. EXISTING IMPULSE LINES TO BE ENLARGED TO ½" DIA.
3. REF. DRAWING MTS-2060-1702.07-0003 (MS-09-230-17) FOR SYMBOL LEGEND
4. WASTE EVAPORATOR FLOW DIAGRAM CONSISTS OF DRAWING MTS-2060-1702.07-0001 AND 0003
5. EXISTING ORFICE 6 TO BE ENLARGED

HEAT TRACING & INSULATION LEGEND
~ = INSULATION ONLY
~ = HEAT TRACING AND INSULATION

FOR ORIGINAL WASTE EVAPORATOR SKID LAYOUT, SEE DRAWING MS-09-834-7

D-14