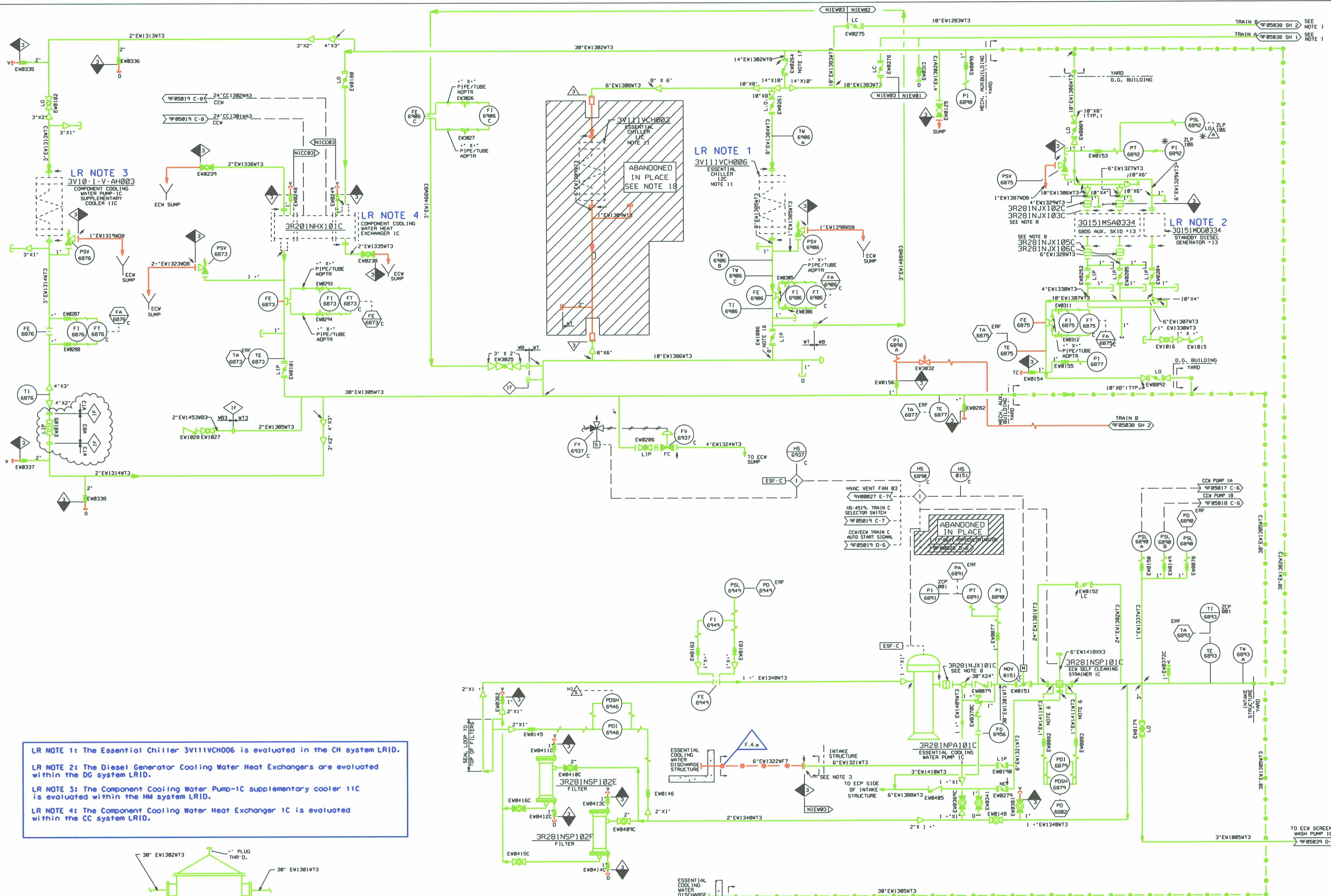


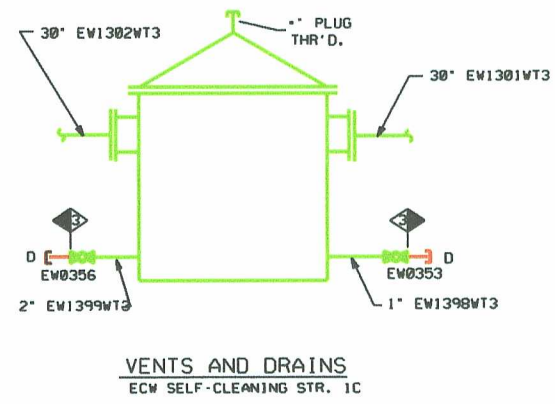


LR NOTE 1: The Essential Chiller 3V111VCH006 is evaluated in the CH system LRID.

LR NOTE 2: The Diesel Generator Cooling Water Heat Exchangers are evaluated within the DG system LRID.

LR NOTE 3: The Component Cooling Water Pump-1C supplementary cooler 11C is evaluated within the HM system LRID.

LR NOTE 4: The Component Cooling Water Heat Exchanger 1C is evaluated within the CC system LRID.



- NOTES:
1. THE CROSS TIE VALVES BETWEEN ECV TRAINS SHALL BE MAINTAINED "LOCKED CLOSED". THEY SHALL ONLY BE USED FOR THE PURPOSE OF FILLING AN IDLE TRAIN.
 2. INSTRUMENT TAKEOFF PIPE AND FITTINGS TO AND INCLUDING THE ROOT VALVE SHALL CONFORM TO THE MAIN LINE SPEC.
 3. LOCATE FLANGE OUTSIDE INTAKE STRUCTURE.
 4. ALL INSTRUMENTS ON THIS P&ID HAVE SYSTEM DESIGNATOR EW.
 5. ALL INSTRUMENTS ON THIS P&ID ARE SEPARATION GROUP N UNLESS OTHERWISE DESIGNATED.
 6. 1" EW1403, 1404 & 1411WT3 ARE CONNECTED TO THE ECV SELF CLEANING STRAINERS.
 7. DELETED.
 8. FOR DESCRIPTION OF EXPANSION JOINTS, REFER TO EQUIPMENT INDEX ENGINEERING REPORT NO. 94470424000.
 9. THE CORROSION MONITORING SYSTEM HAS NO EW OPERATIONAL FUNCTION. ITS PURPOSE IS TO MONITOR FOR CORROSION PRODUCTS IN THE EW SYSTEM.
 10. DELETED.
 11. FOR CHILLER DETAIL SEE DWG# 16. FOR COLD WEATHER OPERATION, THIS VALVE TO BE IN THE CLOSED POSITION.
 12. DELETED.
 13. DELETED.
 14. DELETED.
 15. DELETED.
 16. DO NOT REMOVE ESSENTIAL CHILLER OR EW PIPING. THESE COMPONENTS PROVIDE A PIPE SUPPORT TO THE EW PIPING FOR THE 300 TON CHILLER.
 17. CHECK VALVE (EW0241) INTERNALS REMOVED.
 18. DO NOT REMOVE ESSENTIAL CHILLER OR EW PIPING. THESE COMPONENTS PROVIDE A PIPE SUPPORT TO THE EW PIPING FOR THE 300 TON CHILLER.

LR BOUNDARY DRAWING NO.	REV.
LR-STP-EW-5R289F05038*1-3	0C

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE	NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE	PRIORITY	CADD FILE NO.	FUG. NO.	STI. NO.	SCALE	DWG. NO.	SHT.	REV.
15		INCORP. DCN 0600504.																					
14	3-25-05	INCORP. DCN 0500415																					
13	8-1-02	INCORP. DCN 0201579.																					
12	4-09-02	INCORP. DCN 0200308.																					
11	2-07-02	INCORP. DCN 0200307.																					
10-10	11-15-93	ISSUED FOR CONSTRUCTION.																					

SOUTH TEXAS PROJECT
NUCLEAR OPERATING COMPANY

PIPING AND INSTRUMENTATION DIAGRAM
ESSENTIAL COOLING WATER SYSTEM
TRAIN 1C