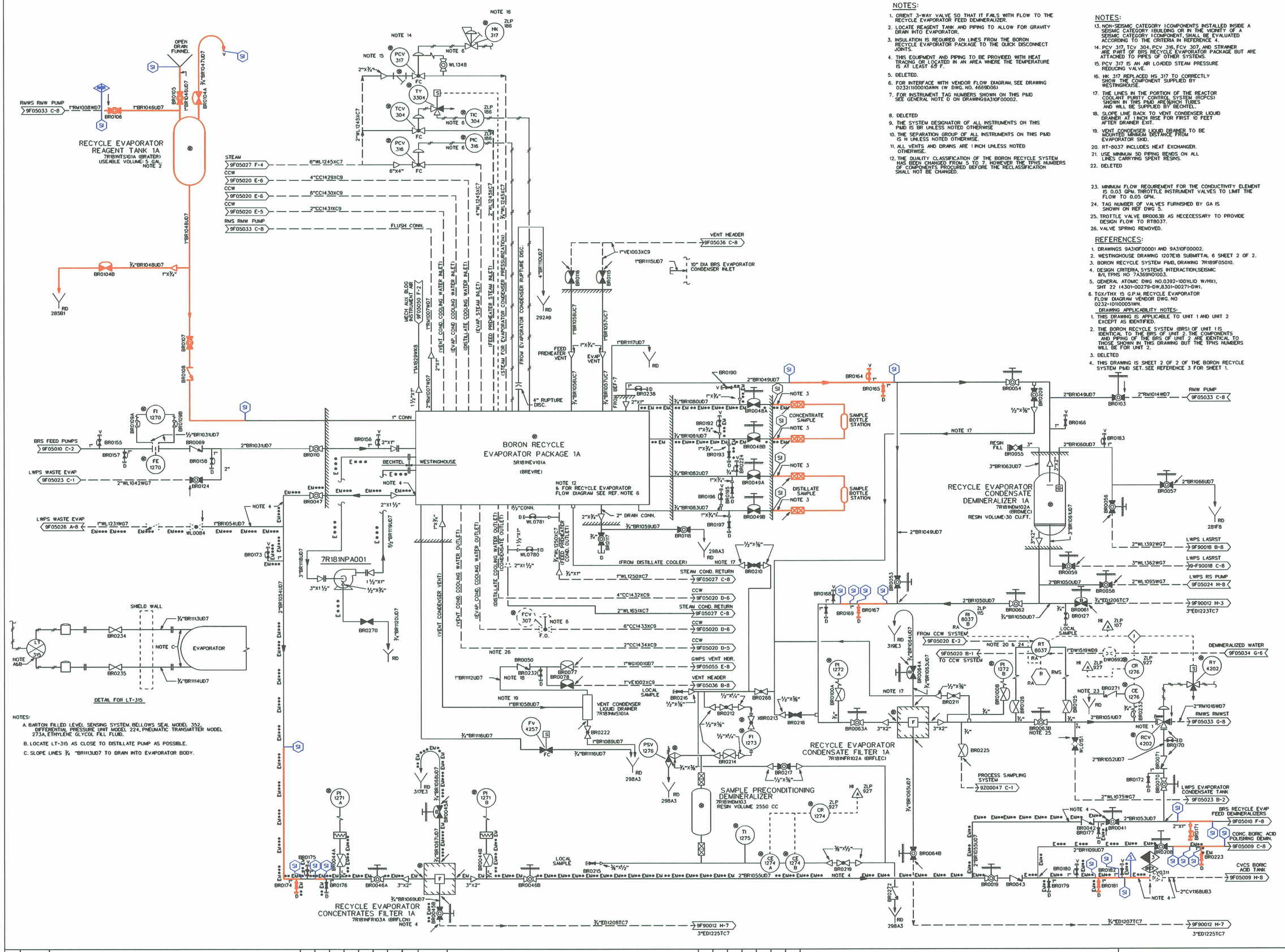

NOTES:

1. ORIENT 3-WAY VALVE SO THAT IT FAILS WITH FLOW TO THE RECYCLE EVAPORATOR FEED DEMINERALIZER.
2. LOCATE REAGENT TANK AND PIPING TO ALLOW FOR GRAVITY DRAIN INTO EVAPORATOR.
3. INSULATION IS REQUIRED ON LINES FROM THE BORON RECYCLE EVAPORATOR PACKAGE TO THE QUICK DISCONNECT JOINTS.
4. THIS EQUIPMENT AND PIPING TO BE PROVIDED WITH HEAT TRACING OR LOCATED IN AN AREA WHERE THE TEMPERATURE IS AT LEAST 65 F.
5. DELETED.
6. FOR INTERFACE WITH VENDOR FLOW DIAGRAM, SEE DRAWING 0232(1)00010AWN (W DWG. NO. 4669D06)
7. FOR INSTRUMENT TAG NUMBERS SHOWN ON THIS P&ID SEE GENERAL NOTE D ON DRAWING 9A310F00002.
8. DELETED
9. THE SYSTEM DESIGNATOR OF ALL INSTRUMENTS ON THIS P&ID IS BR UNLESS NOTED OTHERWISE
10. THE SEPARATION GROUP OF ALL INSTRUMENTS ON THIS P&ID IS N UNLESS NOTED OTHERWISE.
11. ALL VENTS AND DRAINS ARE 1 INCH UNLESS NOTED OTHERWISE.
12. THE QUALITY CLASSIFICATION OF THE BORON RECYCLE SYSTEM HAS BEEN CHANGED FROM 5 TO 7. HOWEVER THE TPNS NUMBERS OF COMPONENTS PROCURED BEFORE THE RECLASSIFICATION SHALL NOT BE CHANGED.

NOTES:

13. NON-SEISMIC CATEGORY I COMPONENTS INSTALLED INSIDE A SEISMIC CATEGORY I BUILDING OR IN THE VICINITY OF A SEISMIC CATEGORY I COMPONENT, SHALL BE EVALUATED ACCORDING TO THE CRITERIA IN REFERENCE 4.
14. PCV 317, TCV 304, PCV 316, FCV 307, AND STRAINER ARE PART OF BRS RECYCLE EVAPORATOR PACKAGE BUT ARE ATTACHED TO PIPES OF OTHER SYSTEMS.
15. PCV 317 IS AN AIR LOADED STEAM PRESSURE REDUCING VALVE.
16. HK 317 REPLACED HS 317 TO CORRECTLY SHOW THE COMPONENT SUPPLIED BY WESTINGHOUSE.
17. THE LINES IN THE PORTION OF THE REACTOR COOLANT PURITY CONTROL SYSTEM (RCPCS) SHOWN IN THIS P&ID ARE ¾INCH TUBES AND WILL BE SUPPLIED BY BECHTEL.
18. SLOPE LINE BACK TO VENT CONDENSER LIQUID DRAINER AT 1 INCH RISE FOR FIRST 10 FEET AFTER DRAINER EXIT.
19. VENT CONDENSER LIQUID DRAINER TO BE MOUNTED MINIMUM DISTANCE FROM EVAPORATOR SKID.
20. RT-8037 INCLUDES HEAT EXCHANGER.
21. USE MINIMUM 5D PIPING BENDS ON ALL LINES CARRYING SPENT RESINS.
22. DELETED
23. MINIMUM FLOW REQUIREMENT FOR THE CONDUCTIVITY ELEMENT IS 0.03 GPM. THROTTLE INSTRUMENT VALVES TO LIMIT THE FLOW TO 0.05 GPM.
24. TAG NUMBER OF VALVES FURNISHED BY GA IS SHOWN ON REF DWG 5.
25. TROTTLE VALVE BR0063B AS NECECESSARY TO PROVIDE DESIGN FLOW TO RT8037.
26. VALVE SPRING REMOVED.

REFERENCES:

1. DRAWINGS 9A310F00001 AND 9A310F00002.
2. WESTINGHOUSE DRAWING 1207E18 SUBMITTAL 6 SHEET 2 OF 2.
3. BORON RECYCLE SYSTEM P&ID, DRAWING 7R189F05010.
4. DESIGN CRITERIA SYSTEMS INTERACTION, SEISMIC II/I, TPNS NO 7A369NO1003.
5. GENERAL ATOMIC DWG NO. 0392-1001LID W/HX), SHT 22 (4301-00279-DW, (4301-00271-DW).
6. TGX/THX 15 G.P.M. RECYCLE EVAPORATOR FLOW DIAGRAM VENDOR DWG. NO 0232-(01)00005WN.

DRAWING APPLICABILITY NOTES:

1. THIS DRAWING IS APPLICABLE TO UNIT 1 AND UNIT 2 EXCEPT AS IDENTIFIED.
2. THE BORON RECYCLE SYSTEM (BRS) OF UNIT 1 IS IDENTICAL TO THE BRS OF UNIT 2. THE COMPONENTS AND PIPING OF THE BRS OF UNIT 2 ARE IDENTICAL TO THOSE SHOWN IN THIS DRAWING BUT THE TPNS NUMBERS WILL BE FOR UNIT 2.
3. DELETED
4. THIS DRAWING IS SHEET 2 OF 2 OF THE BORON RECYCLE SYSTEM P&ID SET. SEE REFERENCE 3 FOR SHEET 1.

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	18		EDITORIAL CHANGES TO REF. CR= 9614063 TO ADD VENDOR REF. NUMBER 0232-(01)00005WN	JSH						
	0-17	8-13-82	ISSUED FOR CONSTRUCTION	SIGNATURES ON FILE						

HOUSTON LIGHTING & POWER COMPANY
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION

PIPING AND INSTRUMENTATION DIAGRAM
BORON RECYCLE SYSTEM

SCALE	DWG. NO.	REV.
NONE	7R189F05011*1	18

RMSECM NO. 7R189F05011*1 | PRIORITY 1 | DOC. NO. (CAD) 0070928 | FJA003.181

LR BOUNDARY DRAWING NO.	REV.
LR-STP-BR-7R189F05011*1	ØB

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