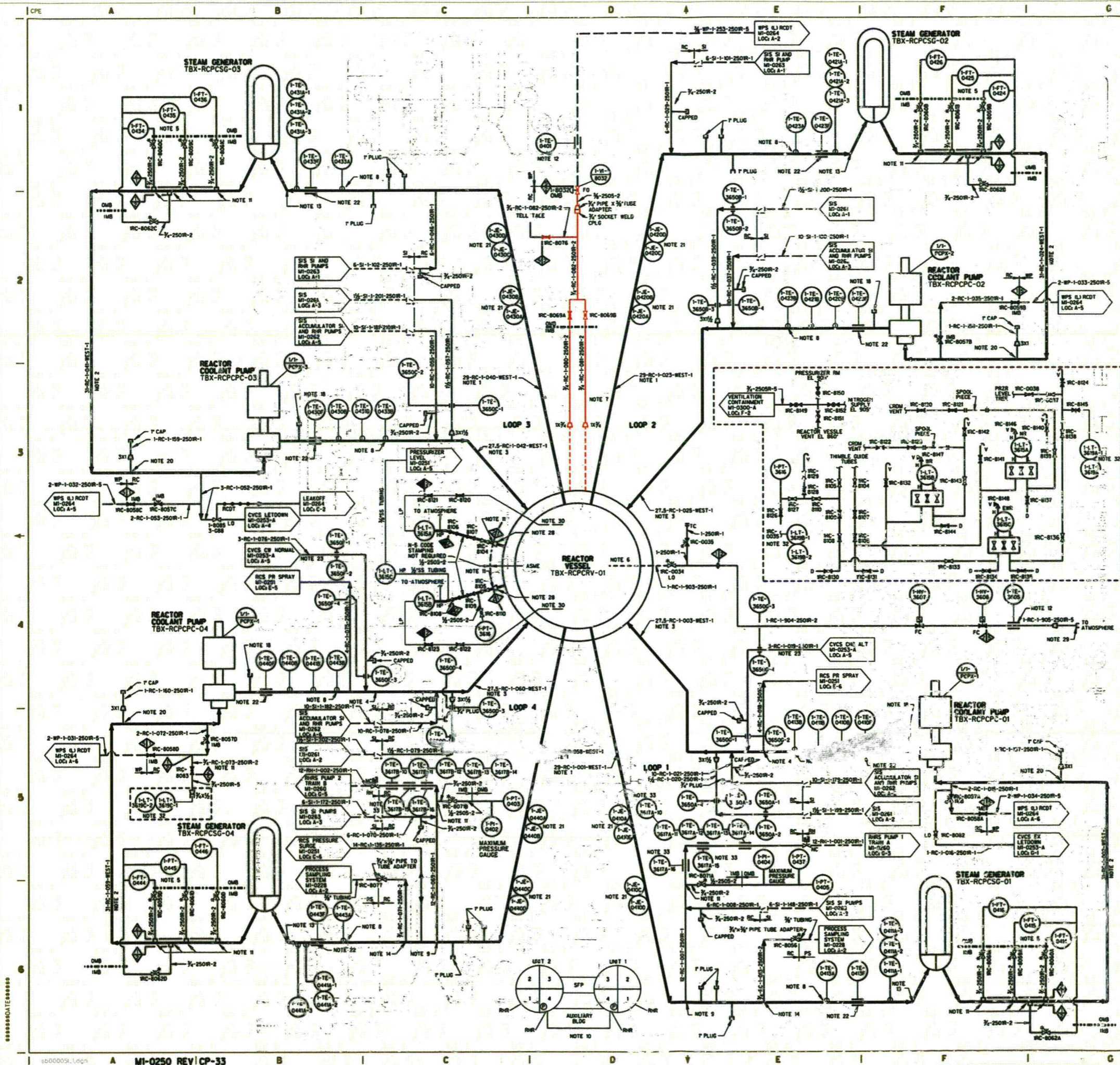


ENCLOSURE TO TXX-13003

DRAWINGS FOR RESPONSE TO RAI QUESTION 2



REV	DATE	DESCRIPTION	REMARKS
1	10/11/88	ISSUED FOR CONSTRUCTION	
2	11/15/88	REVISED TO INCORPORATE DESIGN CHANGE FROM 1088222-01-00 PER 11-0002-99-002199-01-00	

- NOTES:
- 29" INSIDE DIAMETER, (BY WESTINGHOUSE)
 - 37" INSIDE DIAMETER, (BY WESTINGHOUSE)
 - 27.9" INSIDE DIAMETER, (BY WESTINGHOUSE)
 - SPRAY LINE SCOOP.
 - ELBOW FLOW METERS INSTALLATION - SEE REF G ON DRAWING 11-0002.
 - VENT PIPE FURNISHED WITH REACTOR VESSEL HEAD.
 - HEAD GASKET MONITORING CONNECTIONS FURNISHED WITH REACTOR VESSEL.
 - RTD INSTALLED IN WELL.
 - CONNECTION LOCATED IN BOTTOM HALF OF REACTOR COOLANT PIPING ON 45° ANGLE TO VERTICAL.
 - LOOP IDENTIFICATION AS SHOWN.
 - 3/4" ID FLOW RESTRICTOR PROVIDED, (SEE MECHANICAL SYMBOLS AND NOTES DRAWING 11-0002, NOTE 25).
 - STRAP-ON SURFACE MOUNTED RTD LOCATED AT BOTTOM OF PIPE.
 - 3/4" ID X 29" REDUCING ELBOW, (BY WESTINGHOUSE)
 - A FLOW RESTRICTING SCOOP WITH A BORE OF 0.234" WILL BE SUPPLIED BY VENDOR WITH THE LOOP 1 AND 4 HOT LEGS.
 - INDICATES HERMETICALLY SEALED VALVE.
 - DELETED
 - DELETED
 - 2" NOZZLE TO BE PLUGGED IN FIELD.
 - DELETED
 - LOCATE CONNECTION ON UPPER 90° OF PIPE CIRCUMFERENCE.
 - LOCATE RTD AS CLOSE AS POSSIBLE TO BIOLOGICAL SHIELD.
 - STRAP ON RTD'S LOCATED IN PROXIMITY TO INLINE RTD'S FOR CROSS CALIBRATION.
 - USE OF THE NORMAL CHARGING LINE AND ALTERNATE CHARGING LINE SHOULD BE ALTERNATED OVER THE PLANT LIFE SUCH THAT NEITHER PATH WILL BE EXPOSED TO MORE THAN 50% OF THE DESIGN TRANSIENTS INVOLVING COMPLETE STOPPAGE OF LETDOWN AND/OR CHARGING FLOW, TRANSFER FROM ONE PATH TO THE OTHER SHOULD BE PERFORMED ONLY AT COOL DOWNDOWN CONDITIONS TO AVOID SUBJECTING THE CHARGING LINES TO UNNECESSARY THERMAL TRANSIENTS.
 - DELETED
 - DELETED
 - THE STRAP ON RTD'S IDENTIFIED ON THE FOLLOWING TABLE ARE USED TO MONITOR THERMAL CYCLING AND STRATIFICATION IN THEIR RESPECTIVE PIPING LEGS, AS NOTED ON THE TABLE, THE RTD'S ARE MOUNTED ON EITHER THE TOP OR THE BOTTOM OF THE PIPE.

TOP	BOTTOM
1-TE-3650A-1	1-TE-3650A-2
1-TE-3650A-3	1-TE-3650A-4
1-TE-3650B-1	1-TE-3650B-2
1-TE-3650B-3	1-TE-3650B-4
1-TE-3650C-1	1-TE-3650C-2
1-TE-3650C-3	1-TE-3650C-4
1-TE-3650F-1	1-TE-3650F-2
1-TE-3650F-3	1-TE-3650F-4
1-TE-3650G-1	1-TE-3650G-2
1-TE-3650G-3	1-TE-3650G-4

- THESE CONNECTIONS MADE AT 8M BOTTOM MOUNTED INSTRUMENTATION TRIMBLE GUIDE TUBES NUMBERS 45 AND 55 WHICH CORRESPOND TO CONE LOCATIONS J-1 AND N-4 RESPECTIVELY, TRIMBLE GUIDE TUBE 45 LOCATION 20 TO BE USED FOR WIDE RANGE LEVEL TRANSMITTER 1-1-T-3650, TRIMBLE GUIDE TUBE 55 LOCATION N-4 TO BE USED FOR NARROW RANGE LEVEL TRANSMITTER 1-1-T-3650A.
- END OF VENT LINE HAS CAMLOCK QUICK COUPLING TO FACILITATE A QUICK DISCONNECT HOSE CONNECTION, THIS PIPE MUST NOT BE CAPPED FOR ANY REASON.
- USE 1/2" SS TUBING FOR CONNECTION TO CONTROL ROD DRIVE MECHANISM, CONTROL ROD DRIVE MECHANISM INCLUDES FLOW RESTRICTOR TO SERVE AS TRANSITION FROM SAFETY CLASS 1 TO 2
- DELETED
- 1-1-T-3678A-1A-2B-1B-2C-1 AND C-2 ARE INSTALLED FOR PERIODIC RCS LEVEL MONITORING, ROOT VALVES ARE NORMALLY CLOSED. FOR ONE INSERVICE LINE-UP SEE APPLICABLE IPO VALVE 1RC-8083 IS TO BE CAPPED OFF WHEN RCS LEVEL MONITORING SYSTEM IS NOT IN SERVICE.
- THE FOLLOWING TEMPERATURE ELEMENTS ARE ABANDONED IN PLACE:
 - 1-TE-3671A-11
 - 1-TE-3671A-12
 - 1-TE-3671A-13
 - 1-TE-3671A-14
 - 1-TE-3671A-15
 - 1-TE-3671A-16

REFERENCE NOTES:

THIS FLOW DIAGRAM HAS BEEN REDRAWN FROM WESTINGHOUSE DRAWING NUMBER 1088222 SH 1 OF 2, REV 6 WITH EXCEPTIONS AS FOLLOWS:

- a. VALVES AND LINE NUMBERS HAVE BEEN ADDED.
- b. CONTROL LOOPS HAVE BEEN DELETED EXCEPT FOR THE PRIMARY AND FINAL ELEMENTS.
- c. THE DETAILS OF THE CONTROL LOOPS WILL BE SHOWN ON INSTRUMENTATION AND CONTROL DIAGRAM.

VT-2 PKG 1-RC- -40

CLASS I
NUCLEAR SAFETY-RELATED
SAFETY CLASS I CONTROLLED CIRCUITS

LUMINANT
CPNPP
GLEN ROSE, TEXAS

CHECK PRINT

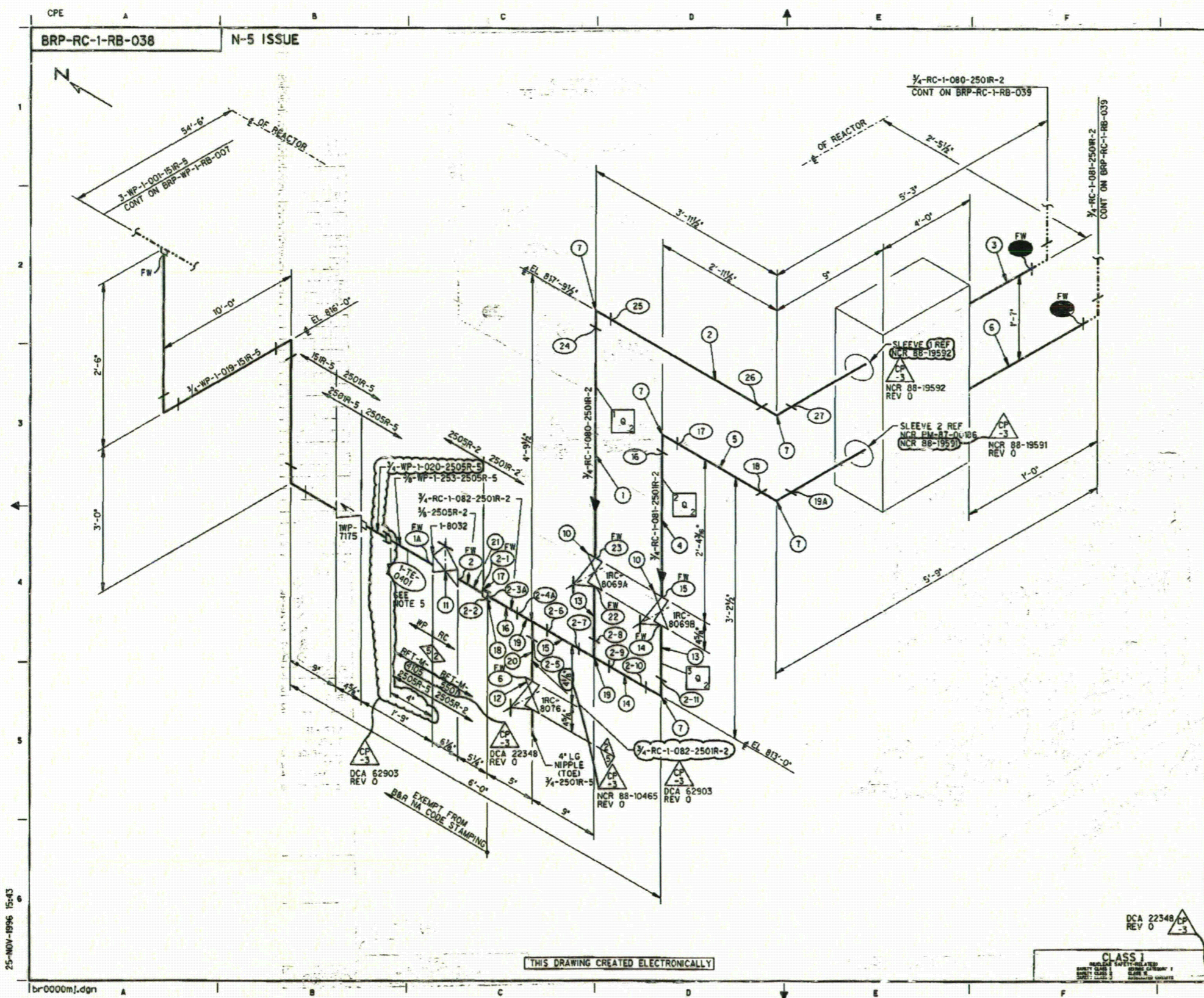
DIAGRAM
COOLANT SYSTEM

THIS DRAWING CREATED ELECTRONICALLY

SI-MI-0250-2

CP-1

FINAL PRINT



SEE NOTE 9

PC NO.	REQ.	CLASS CODE	DESCRIPTION	ASME ASTM	GRADE	COLOR CODE
1	1	2	1/4" S/160 PIPE 3'-10 1/2" EST LG	SA376	F316	BR/
2	1	2	1/4" S/160 PIPE 3'-8 1/2" EST LG	SA376	F316	BR/
3	1	2	1/4" S/160 PIPE 5'-1 1/2" EST LG	SA376	F316	BR/
4	1	2	1/4" S/160 PIPE 2'-3 1/2" EST LG	SA376	F316	BR/
5	1	2	1/4" S/160 PIPE 2'-8 1/2" EST LG	SA376	F316	BR/
6	1	2	1/4" S/160 PIPE 5'-7 1/2" EST LG	SA376	F316	BR/
7	5	2	1/4" 6000 LB SW 90° ELL	SA182	F316	BR/
10	2	2	1/4" TB1609 SOMA CP-20A.1	SA182	F316	-
11	1	2	1/4" TAT8 DL CP-001S/O 220	SA182	F316	-
12	1	2	1/4" TB1609 SOMA CP-20A.1	SA182	F316	-
13	2	2	1/4" S/160 PIPE 0'-4 1/2" EST LG	SA376	F316	BR/
14	1	2	1/4" S/160 PIPE 0'-10 1/2" EST LG	SA376	F316	BR/
15	1	2	1/4" S/160 PIPE 0'-7 1/2" EST LG	SA376	F316	BR/
16	1	2	1/4" S/160 PIPE 0'-3 1/2" EST LG	SA376	F316	BR/
17	1	2	1/4" PIPEX 1/2" TUBE ADAPT. SWACELOK	SA403	WP316	-
			SS-12-MPW-A-6TSW			
18	1	2	1/4" 6000 LB SW COUPLING	SA182	F316	BR/
19	2	2	1/4" 6000 LB SW TEE	SA182	F316	BR/
20	1	2	1/4" S/160 PIPE 0'-4 1/2" EST LG	SA376	F316	BR/
21	1	2	1/4" SS TUBING	SA213	TP316	-

REV	DATE	BY	CHKD	APVD	REMARKS
CP-3	11-25-86				THIS DRAWING REVISED TO INCORPORATE DESIGN CHANGES DCA 22348 REV 0, DCA 62903 REV 0, NCR 88-10465 REV 0, NCR 88-19591 REV 0 AND NCR 88-19592 REV 0.

SPOOLS 1 THRU 3 BY BAR.			
COMPONENT	MI-0511, MI-0512, MI-0513	PART	N/A
FOR BAR	MI-0264, MI-0290	SPEC.	MS-100, MS-43B
		DESIGN CALL OUT	2501R-2, 2505R-2

- NOTES
1. DELETED
 3. DELETED
 5. SURFACE MOUNTED TO BOTTOM OF PIPE.
 9. REFER TO MRS (MANUFACTURING RECORD SHEET) FOR TYPE OF MATERIAL USED.
 10. THIS DRAWING IS QUALIFIED PER SWECC STRESS PROBLEM 1-S05T.

TU ELECTRIC
CPSES
GLEN ROSE, TEXAS

REACTOR COOLANT

CLASS 1
DCA 22348
REV 0

DWG. NO. BRP-RC-1-RB-038
REV. CP-3

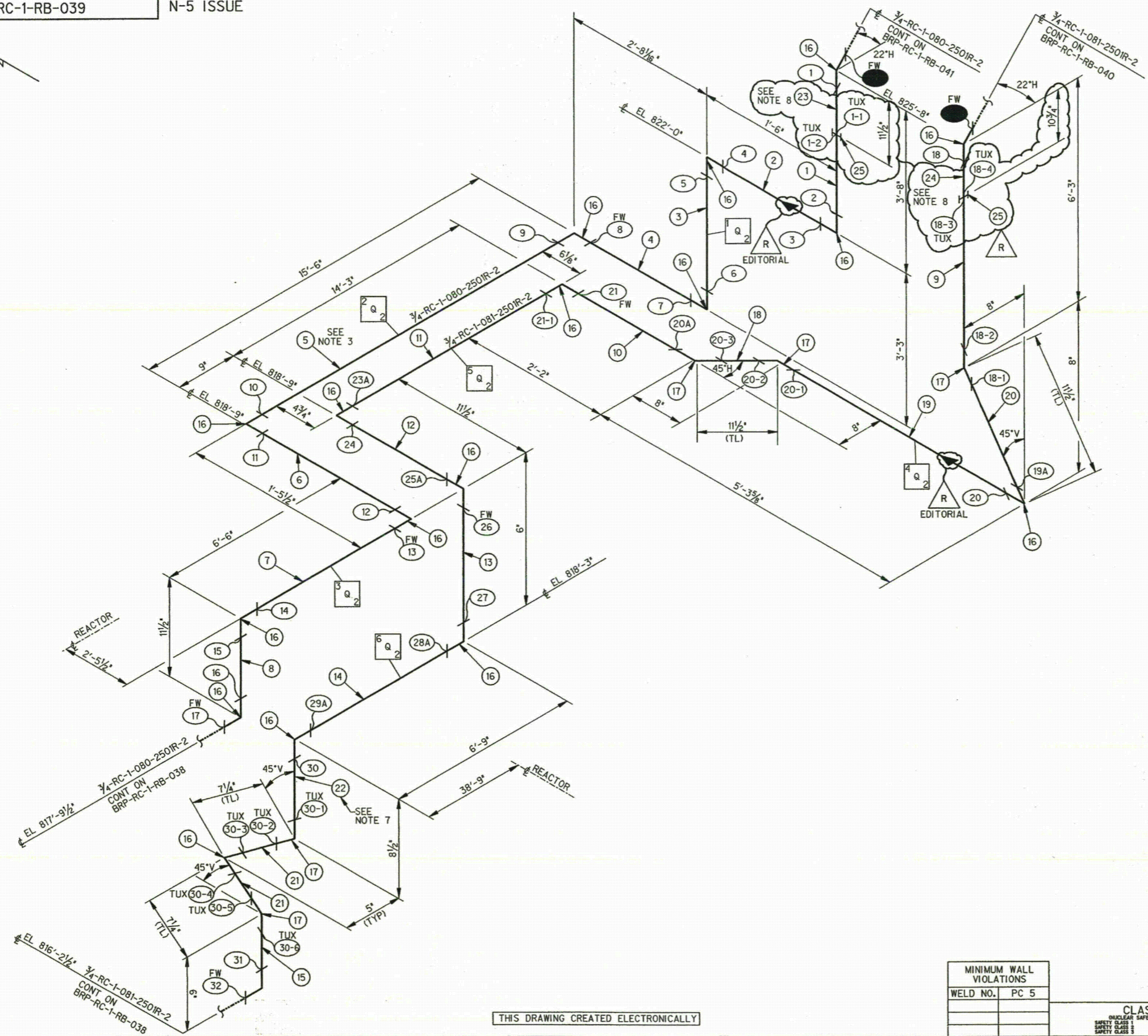
FINAL PRINT

25-MOV-8996 15-43

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THIS DRAWING CREATED ELECTRONICALLY

BRP-RC-1-RB-039 N-5 ISSUE



SEE NOTE 4 BILL OF MATERIAL

PC NO.	REQ.	CLASS CODE	DESCRIPTION	ASME ASTM	GRADE	COLOR CODE
1	1	2	3/4" S/160 PIPE 2'-7 1/8" EST LG	SA376	TP304	BR/
2	1	2	3/4" S/160 PIPE 1'-4 1/8" EST LG	SA376	TP304	BR/
3	1	2	3/4" S/160 PIPE 3'-1 1/8" EST LG	SA376	TP304	BR/
4	1	2	3/4" S/160 PIPE 2'-6 3/8" EST LG	SA376	TP304	BR/
5	1	2	3/4" S/160 PIPE 15'-4 1/8" EST LG	SA376	TP304	BR/
6	1	2	3/4" S/160 PIPE 1'-3 3/8" EST LG	SA376	TP304	BR/
7	1	2	3/4" S/160 PIPE 6'-4 1/8" EST LG	SA376	TP304	BR/
8	1	2	3/4" S/160 PIPE 0'-9 3/8" EST LG	SA376	TP304	BR/
9	1	2	3/4" S/160 PIPE 5'-3 3/8" EST LG	SA376	TP304	BR/
10	1	2	3/4" S/160 PIPE 2'-0 7/8" EST LG	SA376	TP304	BR/
11	1	2	3/4" S/160 PIPE 14'-7 1/8" EST LG	SA376	TP304	BR/
12	1	2	3/4" S/160 PIPE 0'-9 3/8" EST LG	SA376	TP304	BR/
13	1	2	3/4" S/160 PIPE 0'-4 1/8" EST LG	SA376	TP304	BR/
14	1	2	3/4" S/160 PIPE 6'-7 1/8" EST LG	SA376	TP304	BR/
15	1	2	3/4" S/160 PIPE	SA376	TP304	BR/
16	18	2	3/4" 6000 LB SW 90° ELL	SA182	F304	BR/
17	5	2	3/4" 6000 LB SW 45° ELL	SA182	F316	BR/
18	1	2	3/4" S/160 PIPE 0'-10 1/4" EST LG	SA376	TP304	BR/
19	1	2	3/4" S/160 PIPE 4'-6 1/8" EST LG	SA376	TP304	BR/
20	1	2	3/4" S/160 PIPE 0'-9 3/8" EST LG	SA376	TP304	BR/
21	2	2	3/4" S/160 PIPE	SA376	TP304	BR/
22	1	2	3/4" S/160 PIPE	SA376	TP304	BR/
23	1	2	3/4" S/160 PIPE 0'-10 1/8" EST LG	SA376	TP304	BR/
24	1	2	3/4" S/160 PIPE 0'-9 3/8" EST LG	SA376	TP304	BR/
25	2	2	3/4" 6000 LB SW COUPLING	SA182	F316	-

REV	DWN	CHKD	APVD	REMARKS
CP-3	EES	JRMC		THIS DRAWING REVISED TO INCORPORATE DESIGN CHANGE FDA-2009-001526-01-02 PER SK-0010-09-001526-01-00. EDITORIAL CHANGES AS NOTED.

SPOOLS 1 THRU 6 BY B&R
 COMPOSITE M1-0513 PAINT N/A
 FLOW DIAG. M1-0250, M1-0264 SPEC. MS-100, MS-43B DESIGN CAT./CL. 2501R-2

- NOTES
- 2" & UNDER IS RELEASED PER FCR-032.
 - MINIMUM WALL VIOLATION AT PC 5 ACCEPTABLE PER DCA 20155.
 - REFER TO MRS (MANUFACTURING RECORD SHEET) FOR TYPE OF MATERIAL USED.
 - THIS DRAWING IS QUALIFIED PER SWEC STRESS PROBLEM I-S057.
 - DELETED
 - ITEM 22 WAS PREVIOUSLY DOCUMENTED AS ITEM 15.
 - ITEMS 23 & 24 WERE PREVIOUSLY PART OF ITEMS 1 & 9 RESPECTIVELY.

LUMINANT CPSES
 GLEN ROSE, TEXAS

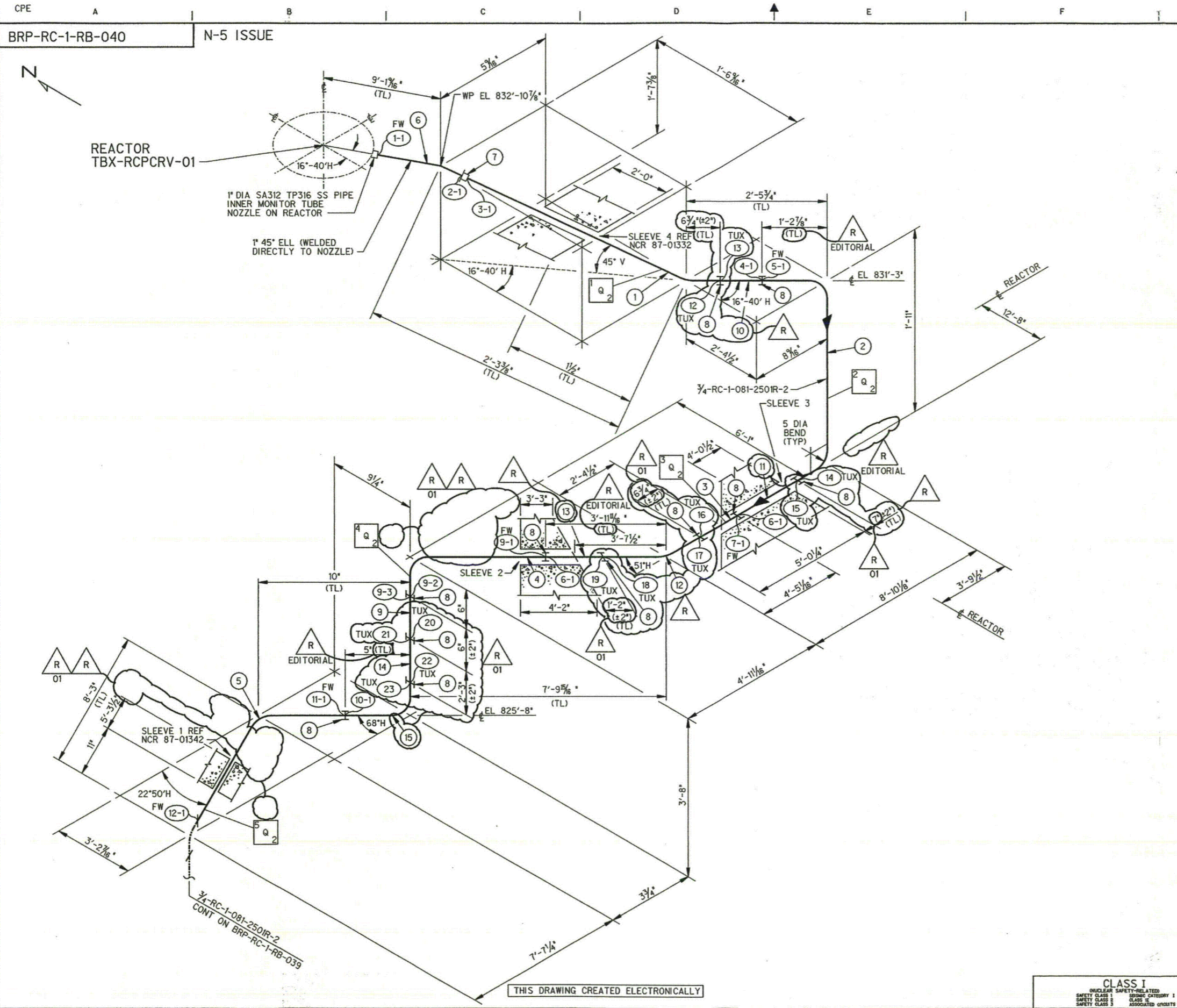
REACTOR COOLANT

CLASS I
 NUCLEAR SAFETY-RELATED
 SAFETY CLASS 1 SOURCE CATEGORY 1
 SAFETY CLASS 2 CLASS 2 ASSOCIATED CIRCUITS

TURNOVER NO. RFT-M-5501 DWG. NO. BRP-RC-1-RB-039 SH. NO. - REV. CP-3

MINIMUM WALL VIOLATIONS	
WELD NO.	PC 5

THIS DRAWING CREATED ELECTRONICALLY



SEE NOTE 5

PC NO.	REQ.	CLASS CODE	DESCRIPTION	ASME ASTM	GRADE	COLOR CODE
1	1	2	3/4" S/160 PIPE	SA376	TP304 TP316	BR/
2	1	2	3/4" S/160 PIPE	SA376	TP304 TP316	BR/
3	1	2	3/4" S/160 PIPE	SA376	TP304 TP316	BR/
4	1	2	3/4" S/160 PIPE	SA376	TP304 TP316	BR/
5	1	2	3/4" S/160 PIPE	SA376	TP304 TP316	BR/
6	1	2	1" 6000 LB SW 45° ELL	SA182	F304 F316	BR/
7	1	2	1" x 3/4" 6000 LB SW RED INSERT	SA182	F304 F316	BR/
8	1	2	3/4" 6000 LB SW CPLG	SA376	TP304 TP316	BR/
9	1	2	3/4" S/160 PIPE	SA376	TP304 TP316	-
10	1	2	3/4" S/160 PIPE	SA376	TP304 TP316	-
11	1	2	3/4" S/160 PIPE	SA376	TP304 TP316	-
12	1	2	3/4" S/160 PIPE	SA376	TP304 TP316	-
13	1	2	3/4" S/160 PIPE	SA376	TP304 TP316	-
14	1	2	3/4" S/160 PIPE	SA376	TP304 TP316	-
15	1	2	3/4" S/160 PIPE	SA376	TP304 TP316	-

REV	DWN	CHKD	APVD	REMARKS
CP-3	MM 04-11 2010	DLK 04-11 2010		THIS DRAWING REVISED TO INCORPORATE DESIGN CHANGE FDA 2009-001526-01-02 PER SK-0001-09-001526-01-01. EDITORIAL CHANGES AS NOTED.

SPOOLS 1 THRU 5 BY B&R
 COMPOSITE MI-0507, MI-0508, MI-0513 PAINT N/A
 FLOW DIAG. MI-0250 SPEC. MS-100, MS-43B DESIGN CAT./CL. 250IR-2

NOTES
 5. REFER TO MRS (MANUFACTURING RECORD SHEET) FOR TYPE OF MATERIAL USED.
 6. THIS DRAWING IS QUALIFIED PER SWEC STRESS PROBLEM 1-5057.

LUMINANT CPSES
 GLEN ROSE, TEXAS

REACTOR COOLANT

TURNOVER NO. RFT-M-5501	DWG. NO. BRP-RC-1-RB-040	SH. NO. -	REV. CP-3
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CLASS I
 NUCLEAR SAFETY-RELATED
 SAFETY CLASS 1 DESIGN CATEGORY 1
 SAFETY CLASS 2 CLASS 2 ASSOCIATED EQUIPMENT
 SAFETY CLASS 3 CLASS 3 ASSOCIATED EQUIPMENT

