

REV	DATE	DESCRIPTION	PREP.	REVL.	APPR.
Z	EDSF	FOR RECORD PER EC DCR 339856	EDSF	EDSF	EDSF
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--

**Exelon**  
Nuclear  
Quad Cities Station 4 Unit: 1.2



LICENSE RENEWAL  
BOUNDARY

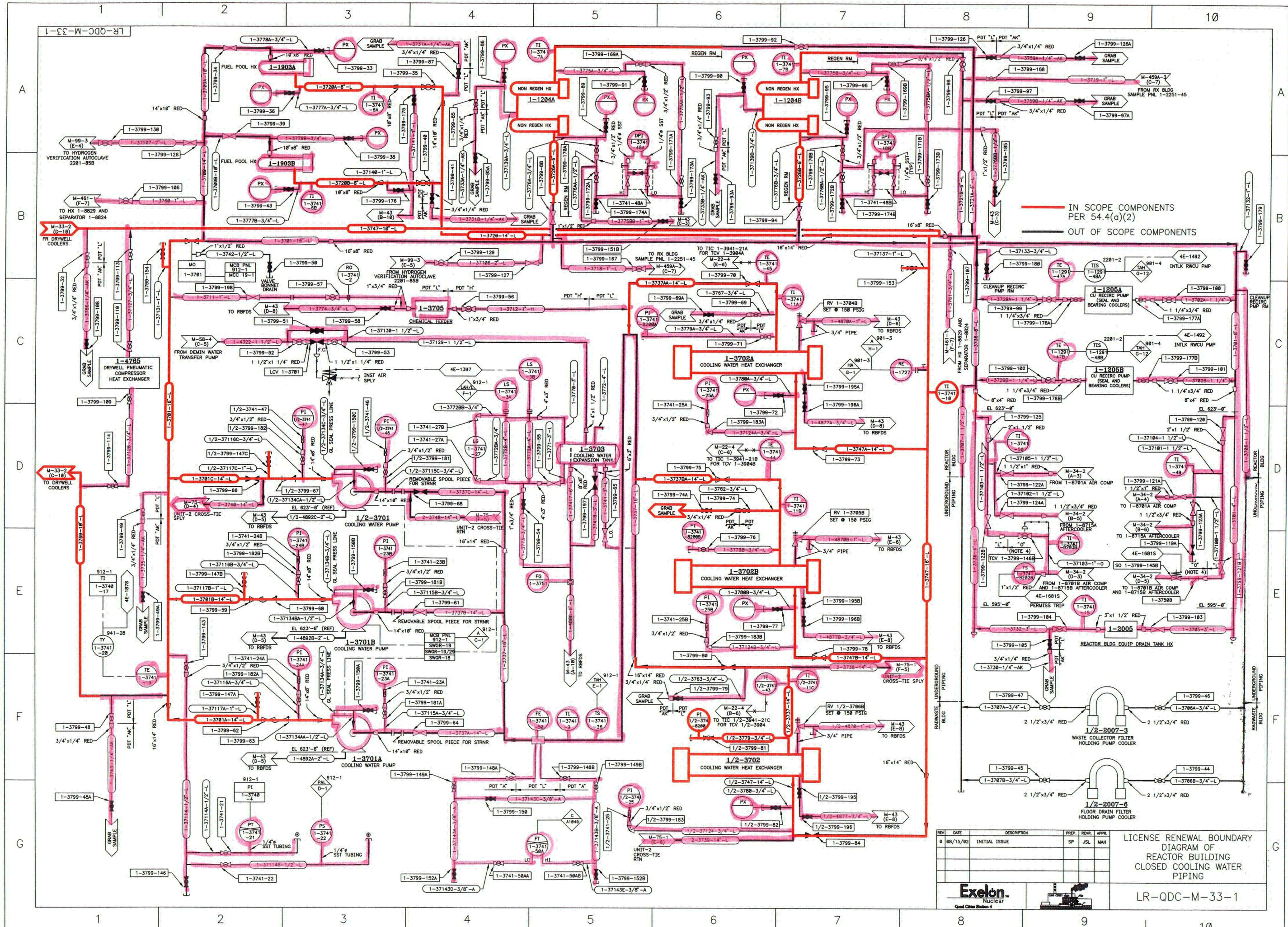
DIAGRAM OF  
MAKEUP  
DEMINERALIZER PIPING

LR-QDC-

M-31

SCALE: NONE	SHEET NUMBER:	SIZE: D M05
DATE: 07/08/99	DRAWN BY: D.DEBROCK	
ORG. BY: CS62	CRITICAL CONTROL ROOM DRAWING	

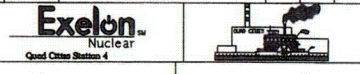




— IN SCOPE COMPONENTS PER 54.4(a)(2)  
— OUT OF SCOPE COMPONENTS

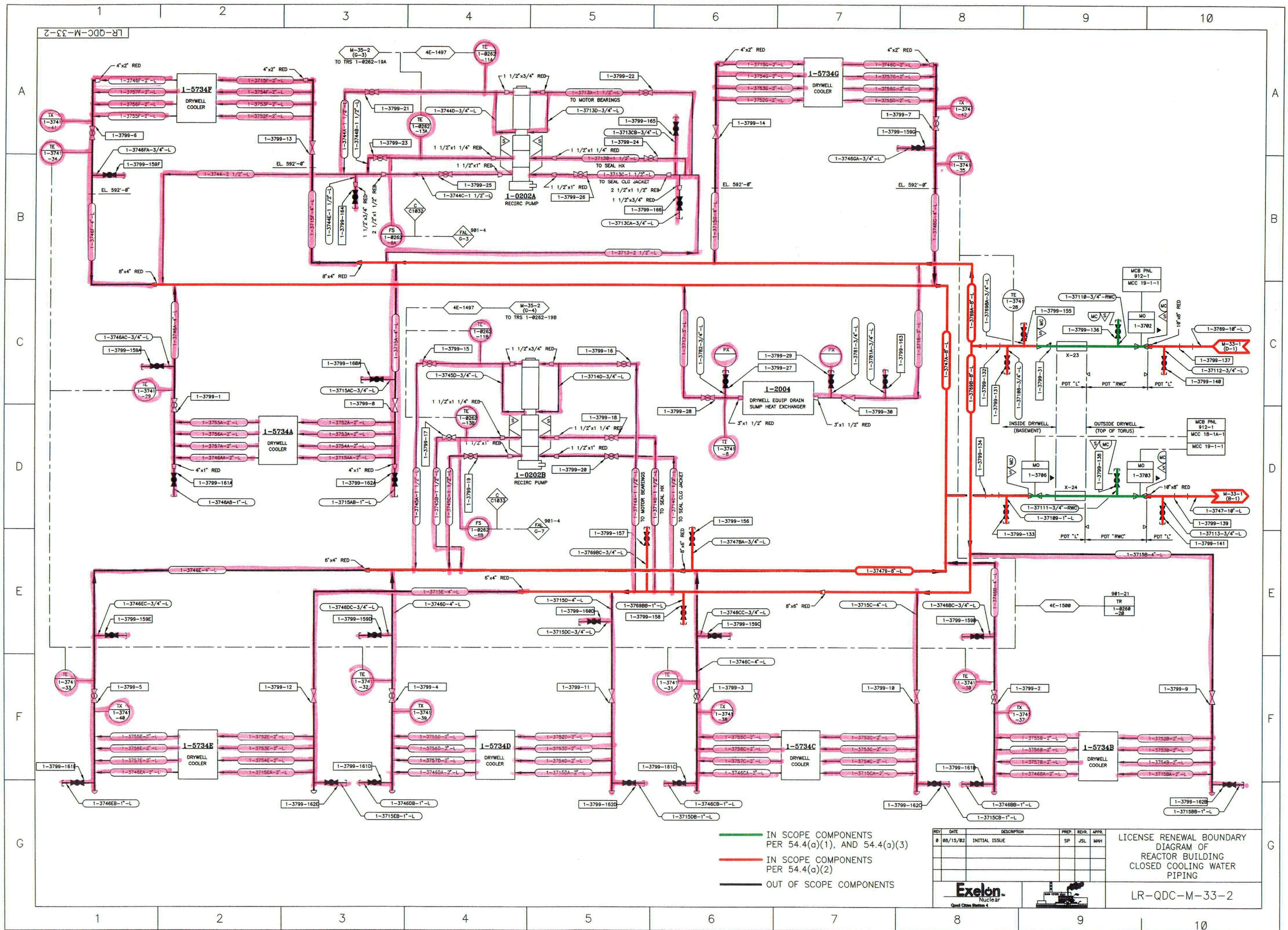
REV	DATE	DESCRIPTION	PREP	REV'D	APPR
0	08/15/02	INITIAL ISSUE	SP	JSL	MAH

LICENSE RENEWAL BOUNDARY  
 DIAGRAM OF  
 REACTOR BUILDING  
 CLOSED COOLING WATER  
 PIPING



LR-QDC-M-33-1

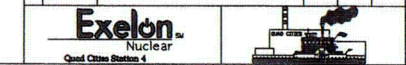




— IN SCOPE COMPONENTS PER 54.4(a)(1), AND 54.4(a)(3)  
— IN SCOPE COMPONENTS PER 54.4(a)(2)  
— OUT OF SCOPE COMPONENTS

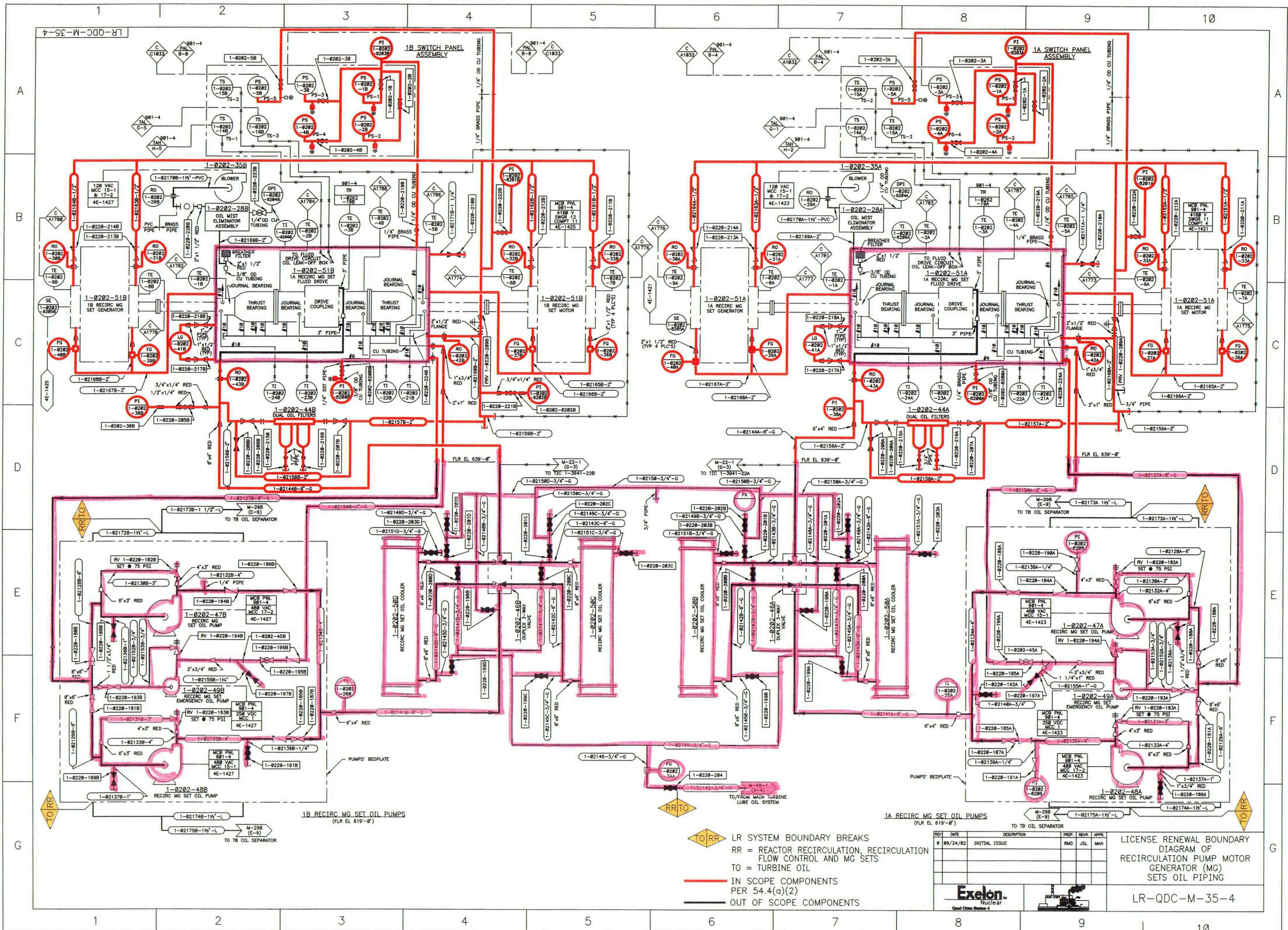
REV	DATE	DESCRIPTION	PREP.	REV.	APP.
0	06/15/02	INITIAL ISSUE	SP	JSL	MAH

LICENSE RENEWAL BOUNDARY  
 DIAGRAM OF  
 REACTOR BUILDING  
 CLOSED COOLING WATER  
 PIPING



LR-QDC-M-33-2





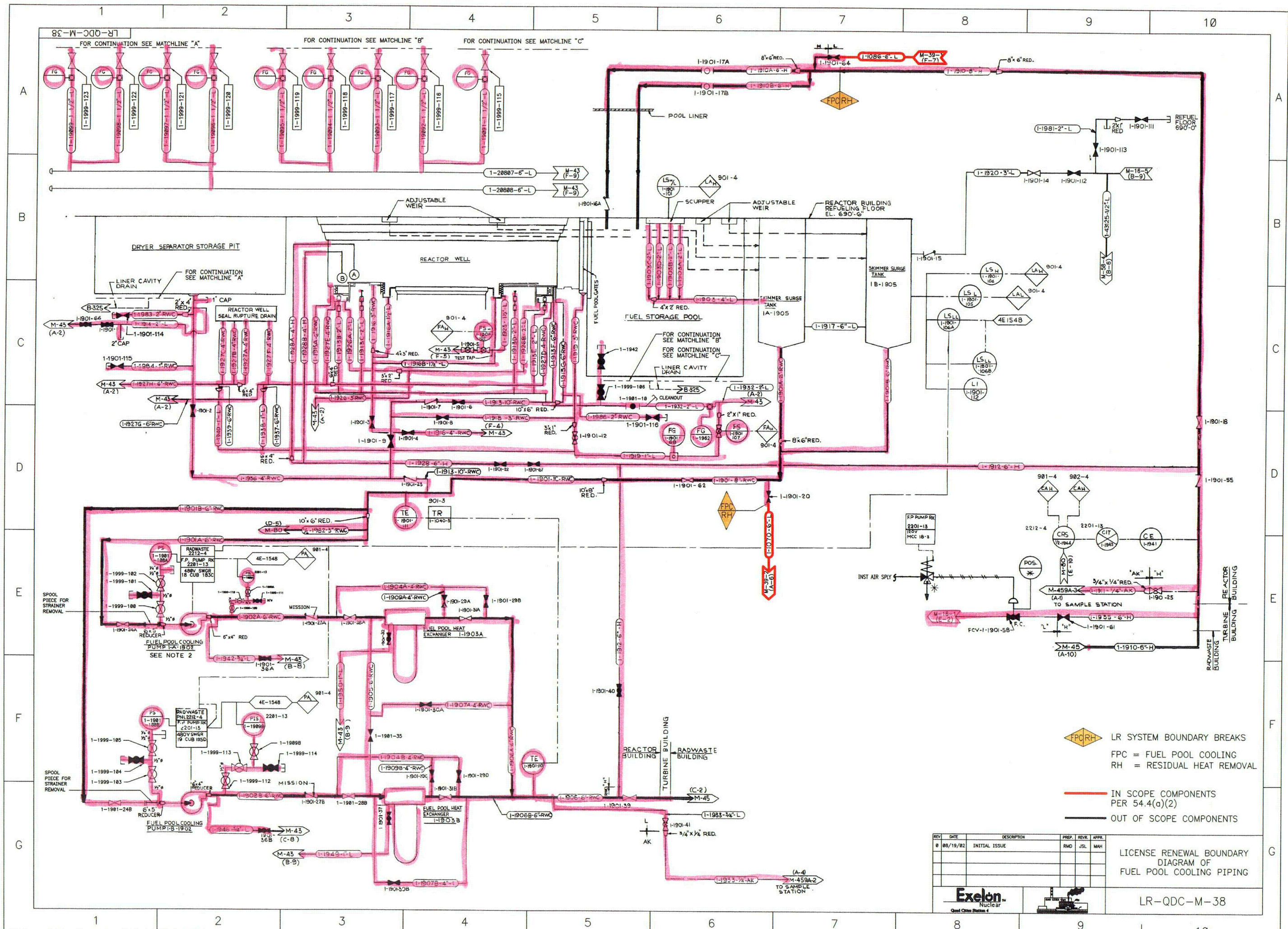
TO RR LR SYSTEM BOUNDARY BREAKS  
 RR = REACTOR RECIRCULATION, RECIRCULATION  
 FLOW CONTROL AND MG SETS  
 TO = TURBINE OIL  
— IN SCOPE COMPONENTS  
 PER 54.4(a)(2)  
— OUT OF SCOPE COMPONENTS


REV	DATE	DESCRIPTION	PREP	REV	APPR
0	09/24/02	INITIAL ISSUE			



LICENSE RENEWAL BOUNDARY  
 DIAGRAM OF  
 RECIRCULATION PUMP MOTOR  
 (MG) SETS OIL PIPING  
 LR-QDC-M-35-4





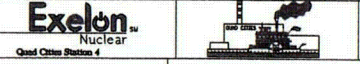


 LR SYSTEM BOUNDARY BREAKS  
 FPC = FUEL POOL COOLING  
 RH = RESIDUAL HEAT REMOVAL

 IN SCOPE COMPONENTS PER 54.4(a)(2)  
 OUT OF SCOPE COMPONENTS

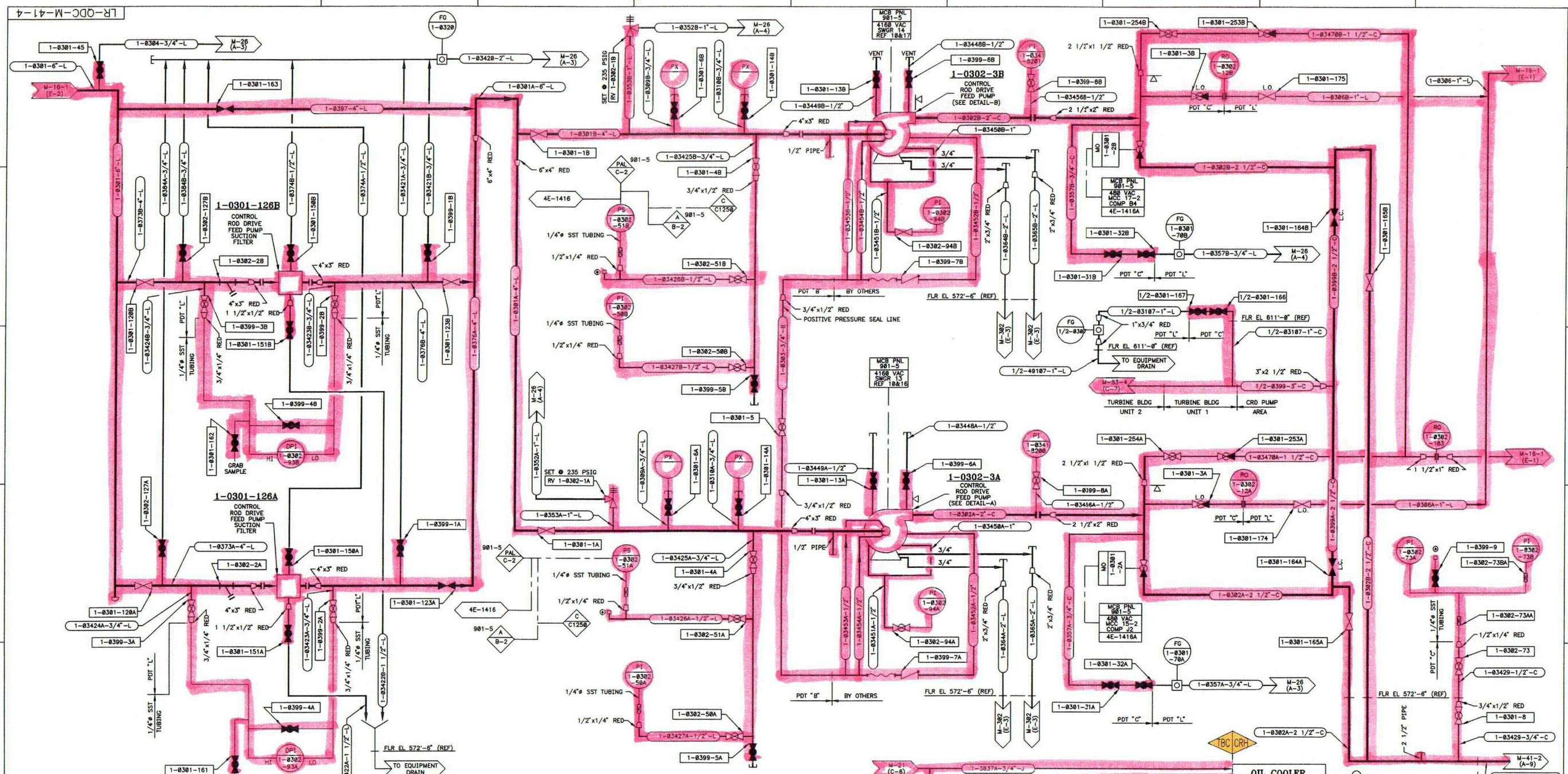
REV	DATE	DESCRIPTION	PREP.	REV.	APPR.
0	08/19/02	INITIAL ISSUE	RMD	JSL	MAH

LICENSE RENEWAL BOUNDARY DIAGRAM OF FUEL POOL COOLING PIPING

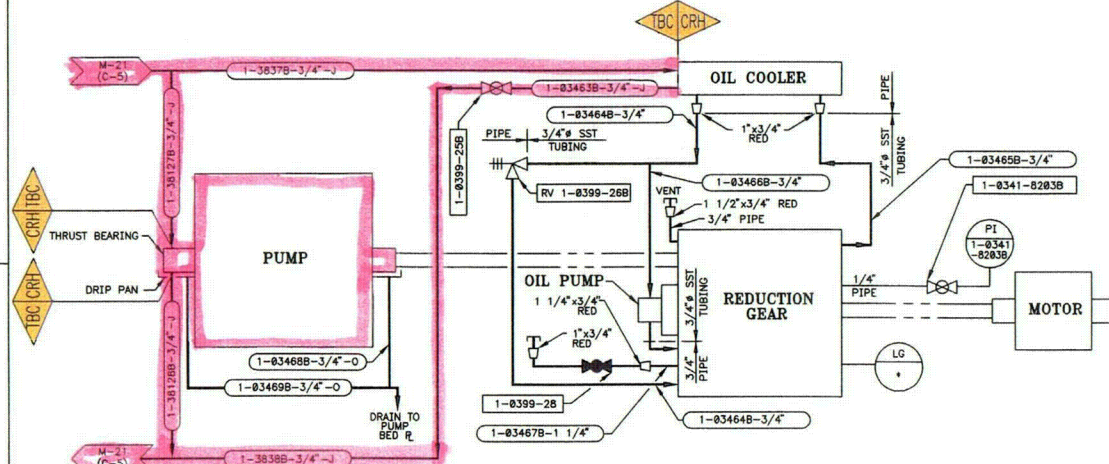


LR-QDC-M-38

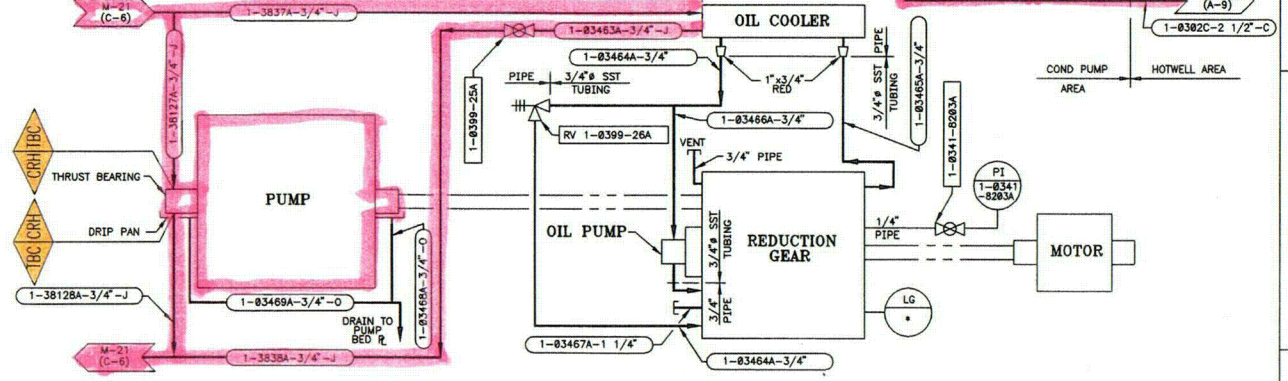




CONTROL ROD DRIVE FEED PUMPS & PIPING



DETAIL-B  
(PUMP BEARINGS & LUBE OIL COOLER PIPING)

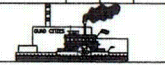


DETAIL-A  
(PUMP BEARINGS & LUBE OIL COOLER PIPING)

- LR SYSTEM BOUNDARY BREAKS
- CRH = CONTROL ROD DRIVE HYDRAULIC
- TBC = TURBINE BUILDING CLOSED COOLING WATER
- OUT OF SCOPE COMPONENTS

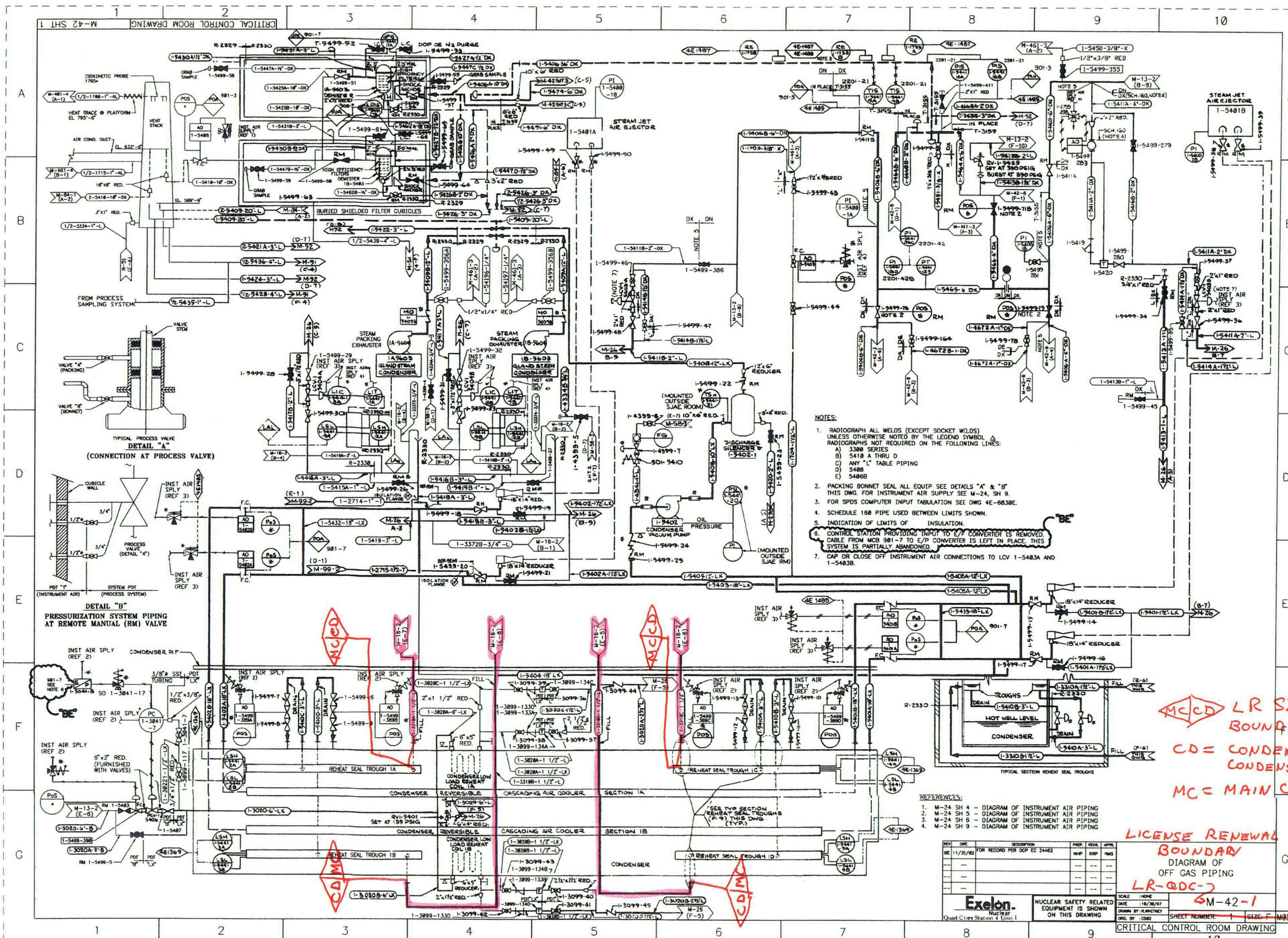
REV	DATE	DESCRIPTION	PREP	REV	APPR
0	09/23/02	INITIAL ISSUE	RMD	JSL	MAH

LICENSE RENEWAL  
DIAGRAM OF  
CONTROL ROD DRIVE  
HYDRAULIC PIPING



LR-QDC-M-41-4





- NOTES:
- RADIOGRAPH ALL WELDS (EXCEPT SOCKET WELDS) UNLESS OTHERWISE NOTED BY THE LEGEND SYMBOL. RADIOGRAPHS NOT REQUIRED ON THE FOLLOWING LINES:
    - A) 3300 SERIES
    - B) 5410 A THRU D
    - C) ANY "L" TABLE PIPING
    - D) 5488
    - E) 5406B
  - PACKING BONNET SEAL ALL EQUIP SEE DETAILS "A" & "B" THIS DWG. FOR INSTRUMENT AIR SUPPLY SEE M-24, SH 9.
  - FOR SPDS COMPUTER INPUT TABULATION SEE DWG 4E-6830E.
  - SCHEDULE 16B PIPE USED BETWEEN LIMITS SHOWN.
  - INDICATION OF LIMITS OF INSULATION.
  - CONTROL STATION PROVIDING INPUT TO E/P CONVERTER IS REMOVED. CABLE FROM MCB 981-7 TO E/P CONVERTER IS LEFT IN PLACE. THIS SYSTEM IS PARTIALLY ABANDONED.
  - CAP OR CLOSE OFF INSTRUMENT AIR CONNECTIONS TO LCV 1-5403A AND 1-5403B.

- REFERENCES:
- M-24 SH 4 - DIAGRAM OF INSTRUMENT AIR PIPING
  - M-24 SH 5 - DIAGRAM OF INSTRUMENT AIR PIPING
  - M-24 SH 6 - DIAGRAM OF INSTRUMENT AIR PIPING
  - M-24 SH 9 - DIAGRAM OF INSTRUMENT AIR PIPING

**LR SYSTEM BOUNDARY BREAKS**  
 CD = CONDENSATE AND CONDENSATE STORAGE  
 MC = MAIN CONDENSER

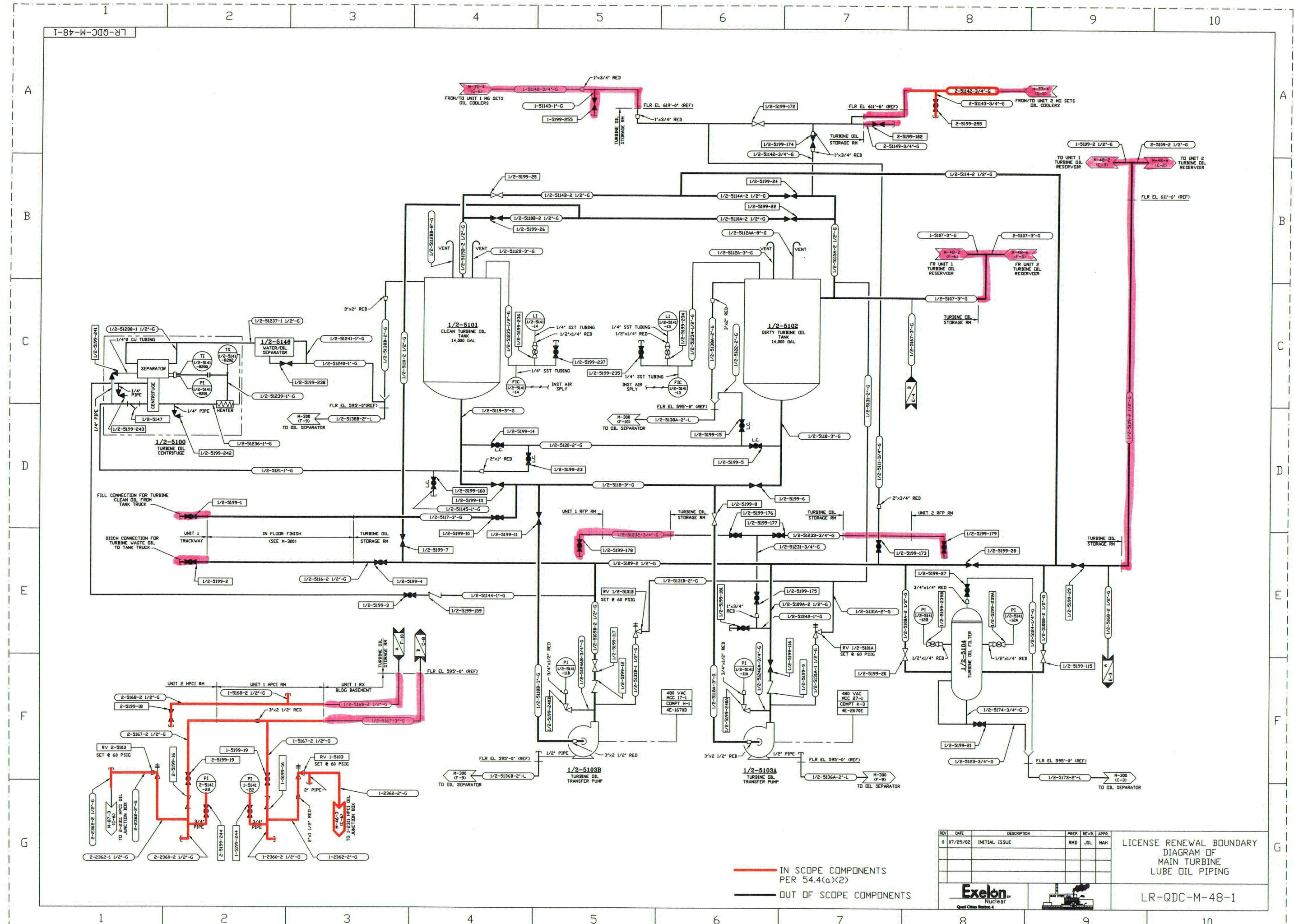
REV	DATE	DESCRIPTION	PREP	REVL	APPR
1	11/25/92	FOR RECORD PER DCP EC 24462	HPB	HPB	MSB

**Exelon**  
 NUCLEAR SAFETY RELATED EQUIPMENT IS SHOWN ON THIS DRAWING

SCALE: NONE  
 DATE: 11/26/92  
 DRAWN BY: PLM/NET/RY  
 SHEET NUMBER: 1-5426-F-005  
 CRITICAL CONTROL ROOM DRAWING

**LICENSE RENEWAL BOUNDARY**  
 DIAGRAM OF OFF GAS PIPING  
**LR-QDC-1**  
 M-42-1





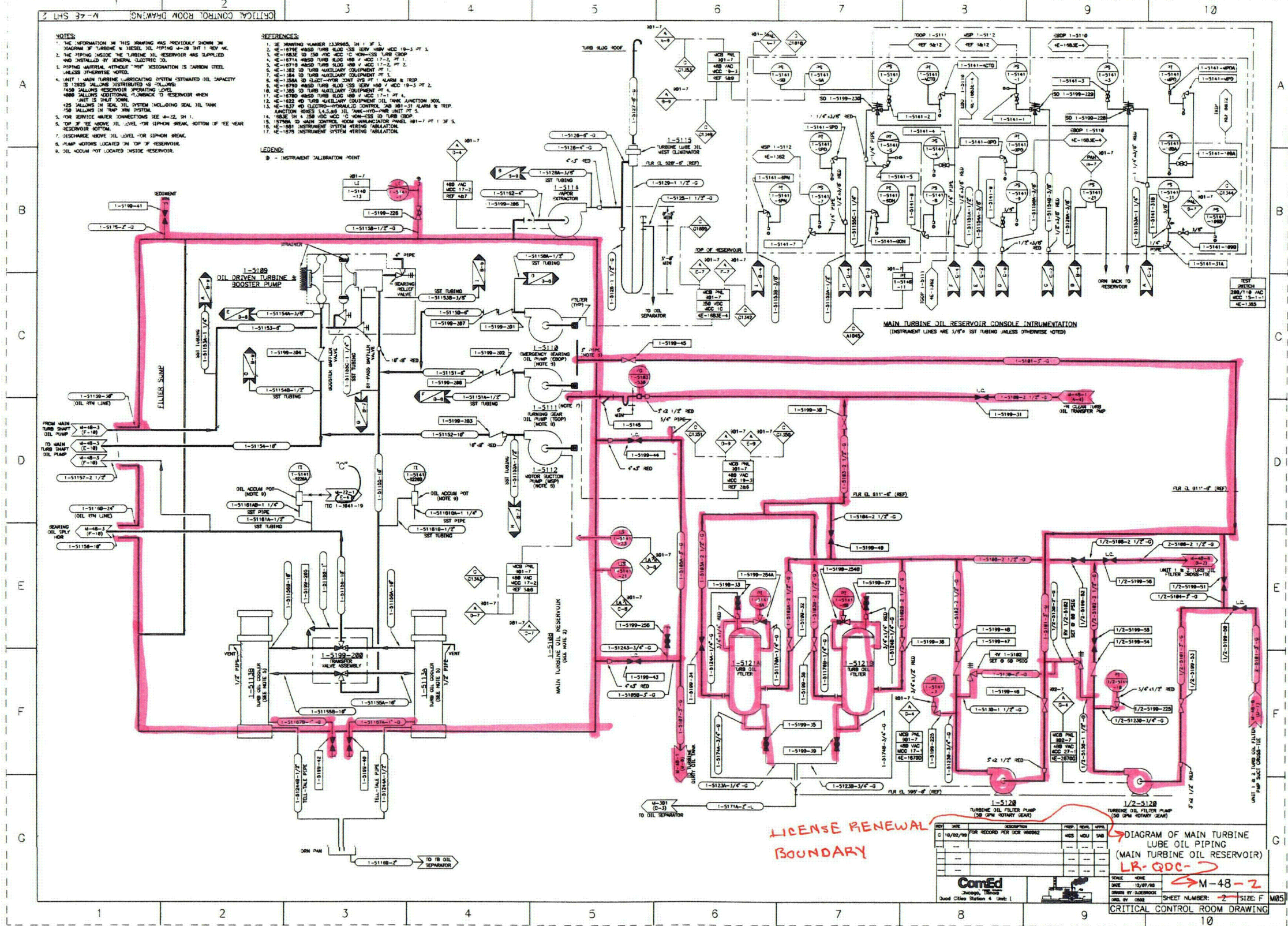
— IN SCOPE COMPONENTS PER 54.4(a)(2)  
 — OUT OF SCOPE COMPONENTS

REV	DATE	DESCRIPTION	PREP.	REVR.	APPR.
0	07/29/02	INITIAL ISSUE	RMD	JSL	MAH

LICENSE RENEWAL BOUNDARY DIAGRAM OF MAIN TURBINE LUBE OIL PIPING

LR-QDC-M-48-1





- NOTES:**
1. THE INFORMATION IN THIS DRAWING WAS PREVIOUSLY SHOWN IN DIAGRAM OF TURBINE LUBE OIL PIPING M-48 INT 1 REV. 1.
  2. THE PIPING INSIDE THE TURBINE OIL RESERVOIR WAS SUPPLIED AND INSTALLED BY GENERAL ELECTRIC CO.
  3. PIPING MATERIAL WITHOUT ANY OTHER DESIGNATION IS CARBON STEEL UNLESS OTHERWISE NOTED.
  4. UNIT 1 MAIN TURBINE LUBRICATING SYSTEM ESTIMATED OIL CAPACITY IS 12000 GALLONS DISTRIBUTED AS FOLLOWS:  
 1400 GALLONS RESERVOIR OPERATING LEVEL  
 4000 GALLONS ADDITIONAL SLURBACK TO RESERVOIR WHEN UNIT IS SHUT DOWN  
 1200 GALLONS IN SEAL OIL SYSTEM INCLUDING SEAL OIL TANK  
 700 GALLONS IN TURBINE OIL SYSTEM
  5. FOR SERVICE WATER CONNECTIONS SEE M-22, SH 1.
  6. TOP OF THE ABOVE OIL LEVEL FOR SIPHON BREAK, BOTTOM OF THE NEAR RESERVOIR BOTTOM.
  7. DISCHARGE ABOVE OIL LEVEL FOR SIPHON BREAK.
  8. PUMP MOTORS LOCATED IN TOP OF RESERVOIR.
  9. OIL ACCUM POT LOCATED INSIDE RESERVOIR.

- REFERENCES:**
1. SEE DRAWING NUMBER 123898, SH 1, PT 1.
  2. M-1879E 4800 TURB BLOC 235 SERV 400V ACC 19-3 PT 1.
  3. M-1879E 4800 TURB BLOC 235 SERV 400V ACC 17-2 PT 1.
  4. M-1879E 4800 TURB BLOC 235 SERV 400V ACC 17-2 PT 2.
  5. M-1879E 4800 TURB BLOC 235 SERV 400V ACC 19-5 PT 1.
  6. M-1879E 4800 TURB BLOC 235 SERV 400V ACC 19-5 PT 2.
  7. M-1879E 4800 TURB BLOC 235 SERV 400V ACC 19-5 PT 3.
  8. M-1879E 4800 TURB BLOC 235 SERV 400V ACC 19-5 PT 4.
  9. M-1879E 4800 TURB BLOC 235 SERV 400V ACC 19-5 PT 5.
  10. M-1879E 4800 TURB BLOC 235 SERV 400V ACC 19-5 PT 6.
  11. M-1879E 4800 TURB BLOC 235 SERV 400V ACC 19-5 PT 7.
  12. M-1879E 4800 TURB BLOC 235 SERV 400V ACC 19-5 PT 8.
  13. M-1879E 4800 TURB BLOC 235 SERV 400V ACC 19-5 PT 9.
  14. M-1879E 4800 TURB BLOC 235 SERV 400V ACC 19-5 PT 10.
  15. M-1879E 4800 TURB BLOC 235 SERV 400V ACC 19-5 PT 11.
  16. M-1879E 4800 TURB BLOC 235 SERV 400V ACC 19-5 PT 12.
  17. M-1879E 4800 TURB BLOC 235 SERV 400V ACC 19-5 PT 13.

**LEGEND:**  
 B - INSTRUMENT CALIBRATION POINT

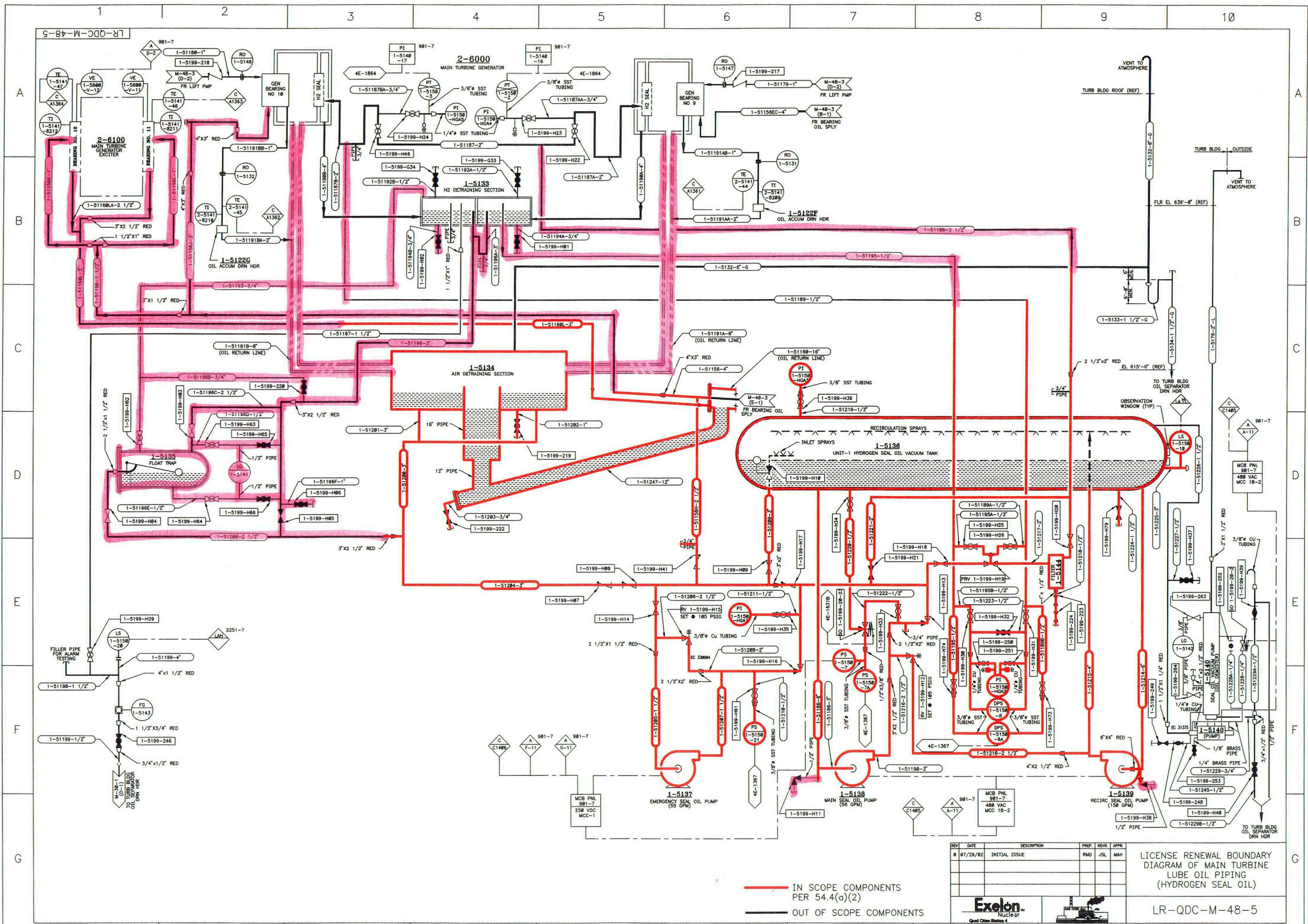
**DIAGRAM OF MAIN TURBINE LUBE OIL PIPING (MAIN TURBINE OIL RESERVOIR)**  
**LR-900-2**  
**M-48-2**

NO.	DATE	DESCRIPTION	BY	CHKD	APPD
1	10/22/59	FOR RECORD PER DCR 1000002	MS	MS	MS
2					
3					
4					
5					
6					
7					
8					
9					
10					

**ComEd**  
 Joseph T. DeLoach  
 Dual Cities Station 4 Unit 1

**CRITICAL CONTROL ROOM DRAWING**





— IN SCOPE COMPONENTS PER 54.4(a)(2)  
— OUT OF SCOPE COMPONENTS

REV	DATE	DESCRIPTION	PREP.	REV.	APPR.
0	07/29/02	INITIAL ISSUE	RMD	JSL	MAH

LICENSE RENEWAL BOUNDARY  
 DIAGRAM OF MAIN TURBINE  
 LUBE OIL PIPING  
 (HYDROGEN SEAL OIL)

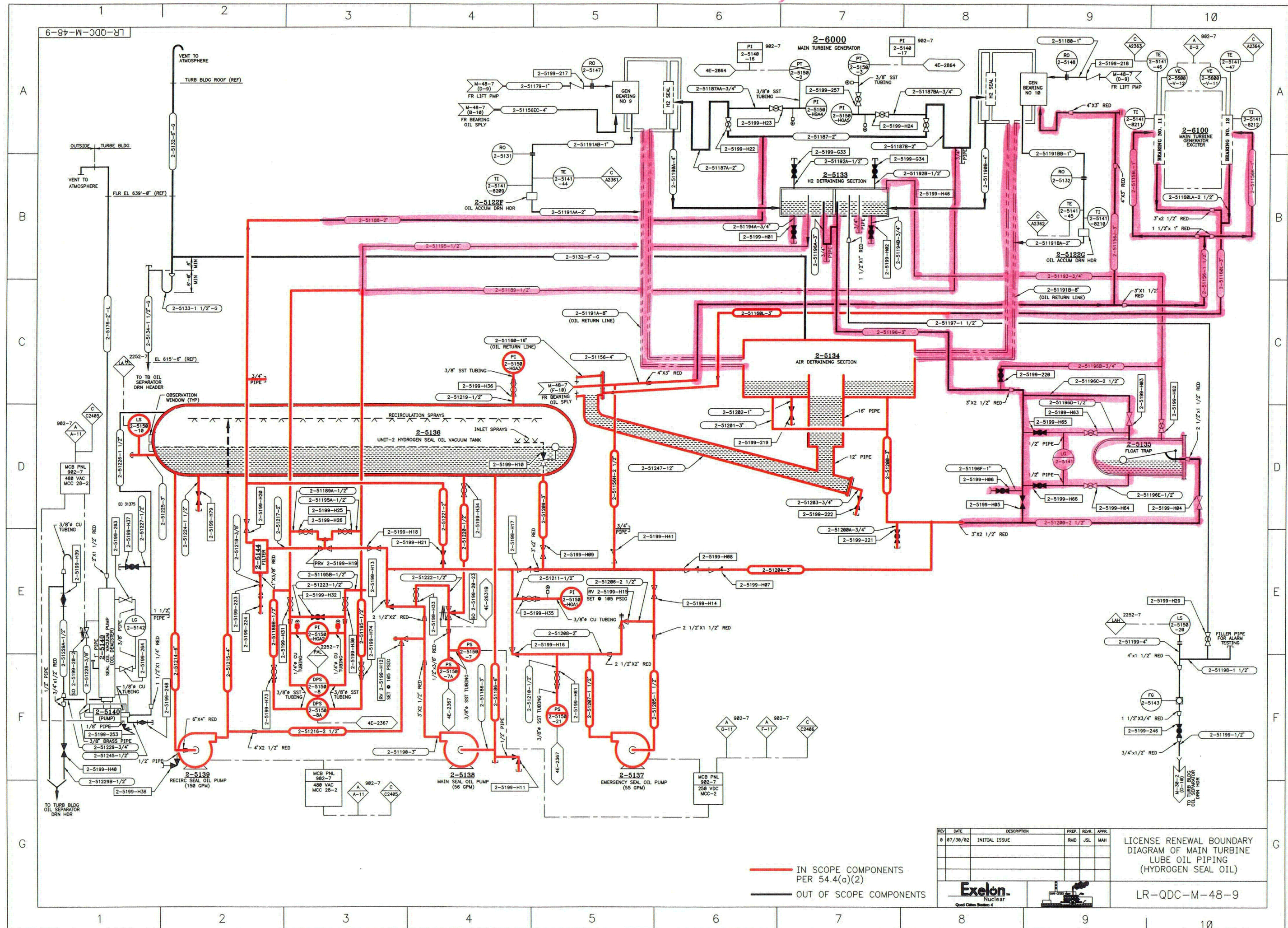
LR-QDC-M-48-5

**Exelon Nuclear**  
 Quad Cities Station 4







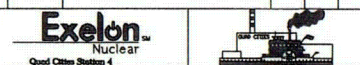


— IN SCOPE COMPONENTS PER 54.4(a)(2)  
— OUT OF SCOPE COMPONENTS

REV	DATE	DESCRIPTION	PREP.	REVL.	APPR.
0	07/30/02	INITIAL ISSUE			

LICENSE RENEWAL BOUNDARY  
 DIAGRAM OF MAIN TURBINE  
 LUBE OIL PIPING  
 (HYDROGEN SEAL OIL)

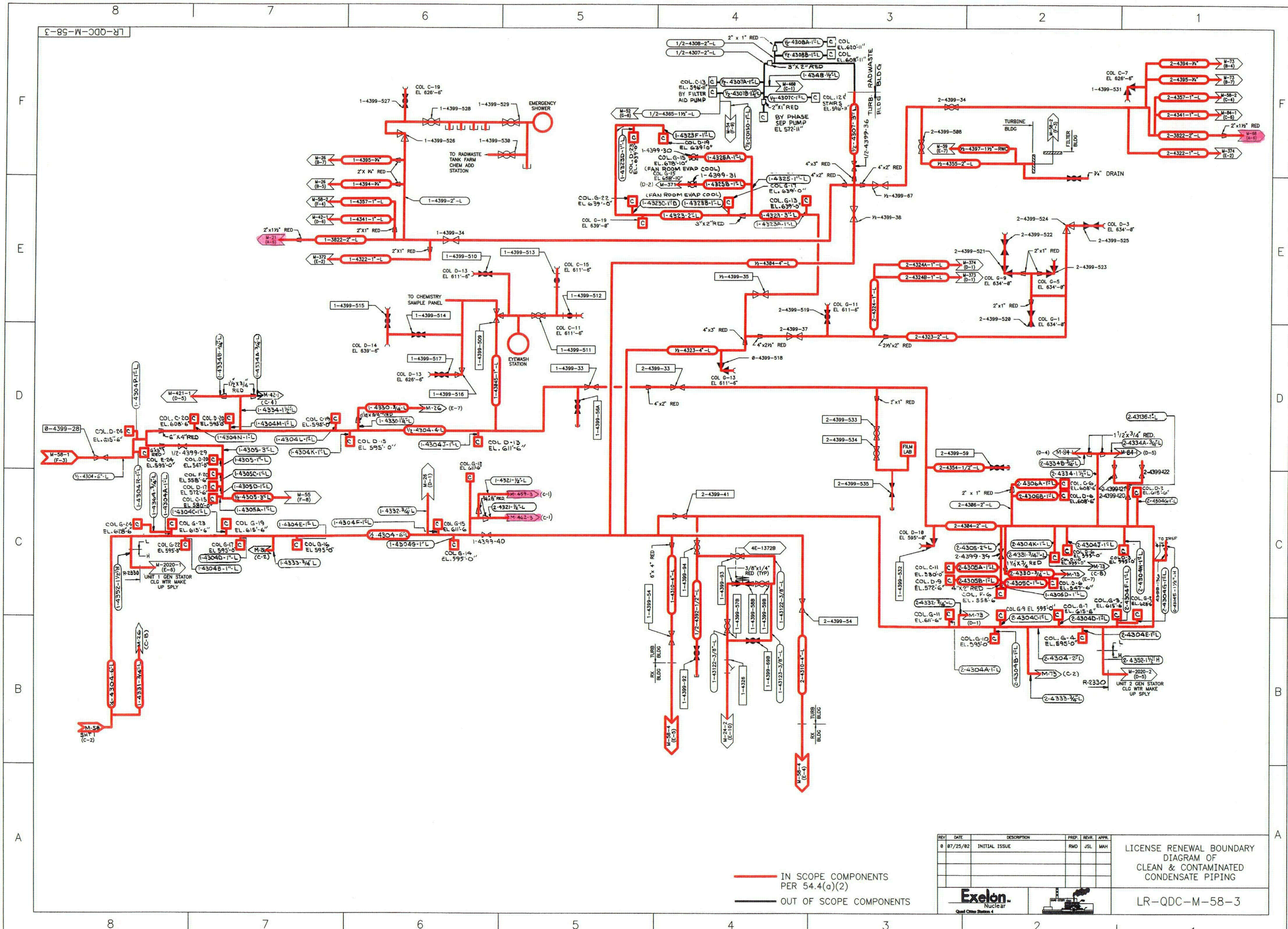
LR-QDC-M-48-9









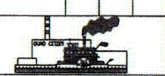
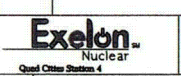


— IN SCOPE COMPONENTS PER 54.4(d)(2)  
— OUT OF SCOPE COMPONENTS

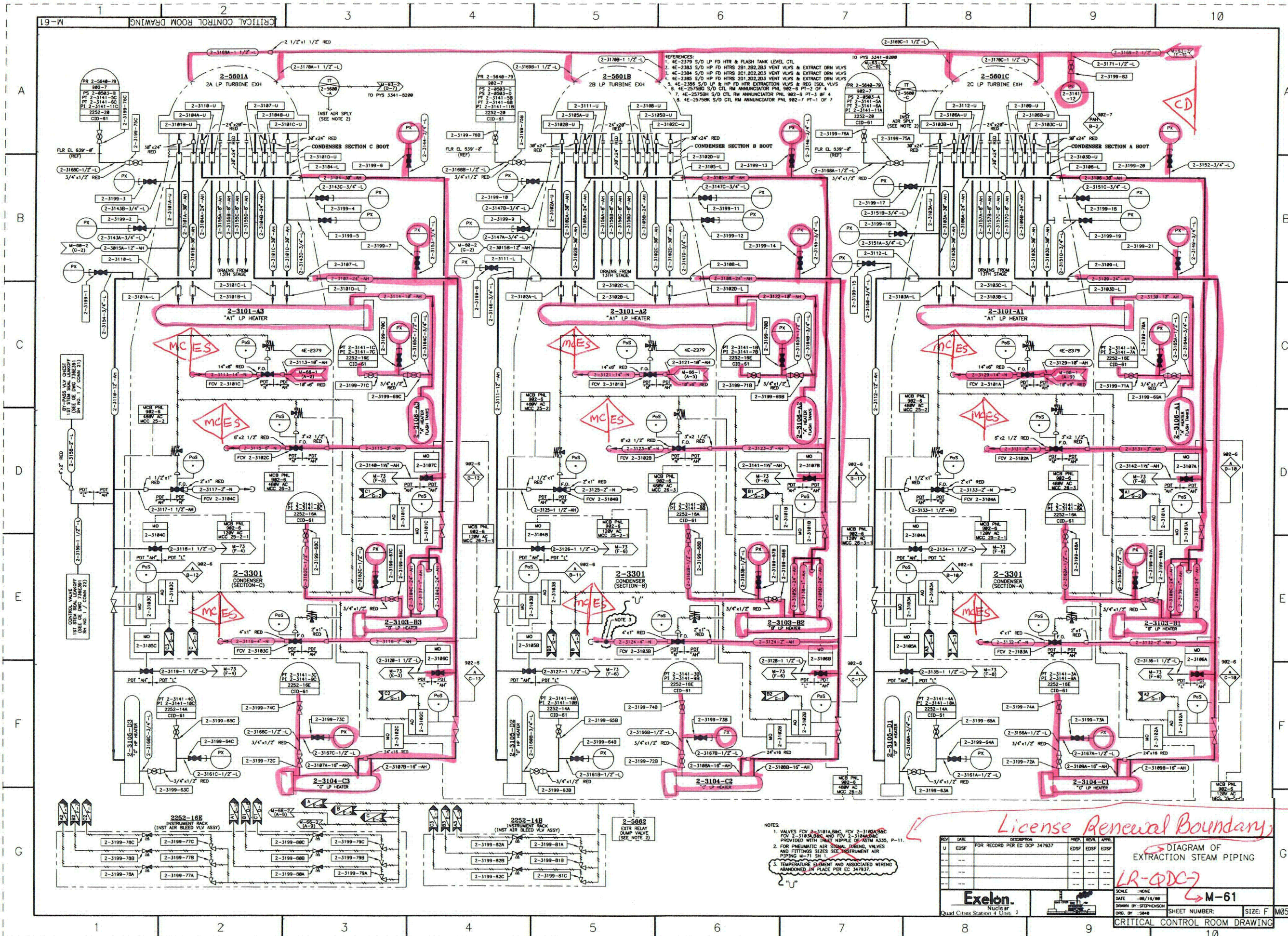
REV	DATE	DESCRIPTION	PREP	REV	APPR
0	07/25/02	INITIAL ISSUE	RMD	JSL	MAH

LICENSE RENEWAL BOUNDARY  
 DIAGRAM OF  
 CLEAN & CONTAMINATED  
 CONDENSATE PIPING

LR-QDC-M-58-3







REFERENCES:  
 1. 4E-2379 S/D LP F/D WTR & FLASH TANK LEVEL CTL  
 2. 4E-2383 S/D HP F/D WTR 201.202.203 VENT VLVS & EXTRACT DRN VLVS  
 3. 4E-2385 S/D HP F/D WTR 201.202.203 VENT VLVS & EXTRACT DRN VLVS  
 4. 4E-2389 S/D LP & HP F/D WTR EXTRACT VLV & REG 150A VLV  
 5. 4E-2379 S/D LP & HP F/D WTR EXTRACT VLV & REG 150A VLV  
 6. 4E-257586 S/D CTL RM ANNUNCIATOR PNL 982-5 PT-3 OF 4  
 7. 4E-257587 S/D CTL RM ANNUNCIATOR PNL 982-5 PT-3 OF 4  
 8. 4E-257588 S/D CTL RM ANNUNCIATOR PNL 982-5 PT-3 OF 4  
 9. 4E-257589 S/D CTL RM ANNUNCIATOR PNL 982-5 PT-3 OF 4  
 10. 4E-257590 S/D CTL RM ANNUNCIATOR PNL 982-5 PT-3 OF 4

NOTES:  
 1. VALVES FCV 2-3101A, FCV 2-3101B, FCV 2-3101C PROVIDED WITH INLET NIPPLE OF ASTM A335, P-11. FOR PNEUMATIC AIR SIGNAL JOURNAL, VALVES AND FITTINGS SIZE 1/2" INSTRUMENT AIR PIPING M-71 SH 1.  
 2. TEMPERATURE ELEMENT AND ASSOCIATED WIRING ABANDONED IN PLACE PER CC 347937

License Renewal Boundary

REV	DATE	DESCRIPTION	PREP	REVL	APPR
U	EDSF	FOR RECORD PER CC DCP 347937	EDSF	EDSF	EDSF
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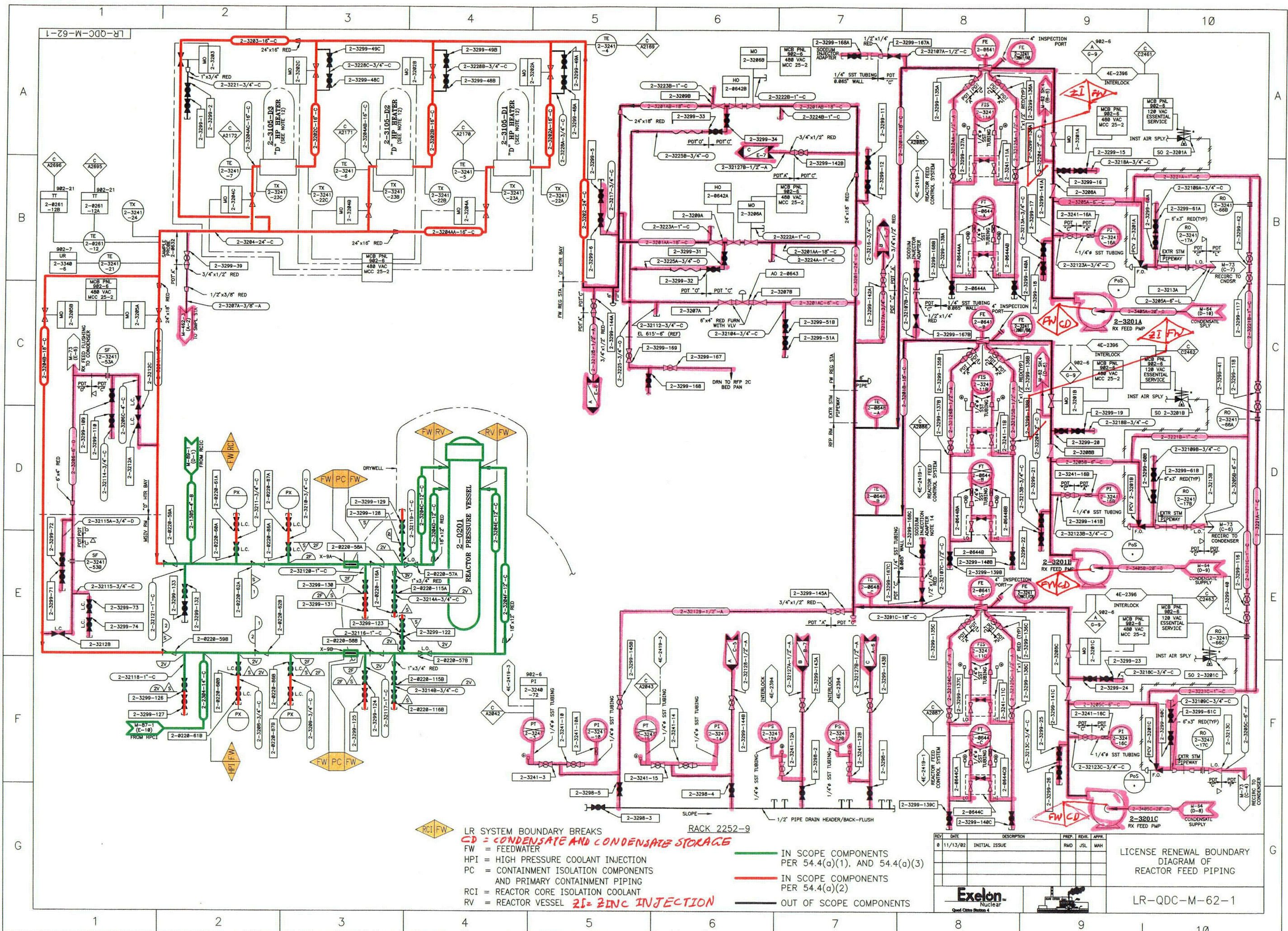
DIAGRAM OF EXTRACTION STEAM PIPING  
 LR-QDC-7  
 M-61

Exelon  
 NUCES  
 Quad Cities Station, Unit 2

SCALE: NONE  
 DATE: 06/16/06  
 DRAWN BY: STEPHENSON  
 ORG. BY: SMOB  
 SHEET NUMBER: M-61  
 SIZE: F M05

LR system boundary breaks.  
 MC = Main Condenser  
 ES = Extraction Steam  
 CD = Condensate and Condensate Storage.





LR SYSTEM BOUNDARY BREAKS  
**CD** = CONDENSATE AND CONDENSATE STORAGE  
**FW** = FEEDWATER  
**HPI** = HIGH PRESSURE COOLANT INJECTION  
**PC** = CONTAINMENT ISOLATION COMPONENTS AND PRIMARY CONTAINMENT PIPING  
**RCI** = REACTOR CORE ISOLATION COOLANT  
**RV** = REACTOR VESSEL  
**ZI** = ZINC INJECTION

— IN SCOPE COMPONENTS PER 54.4(a)(1), AND 54.4(a)(3)  
 — IN SCOPE COMPONENTS PER 54.4(a)(2)  
 — OUT OF SCOPE COMPONENTS

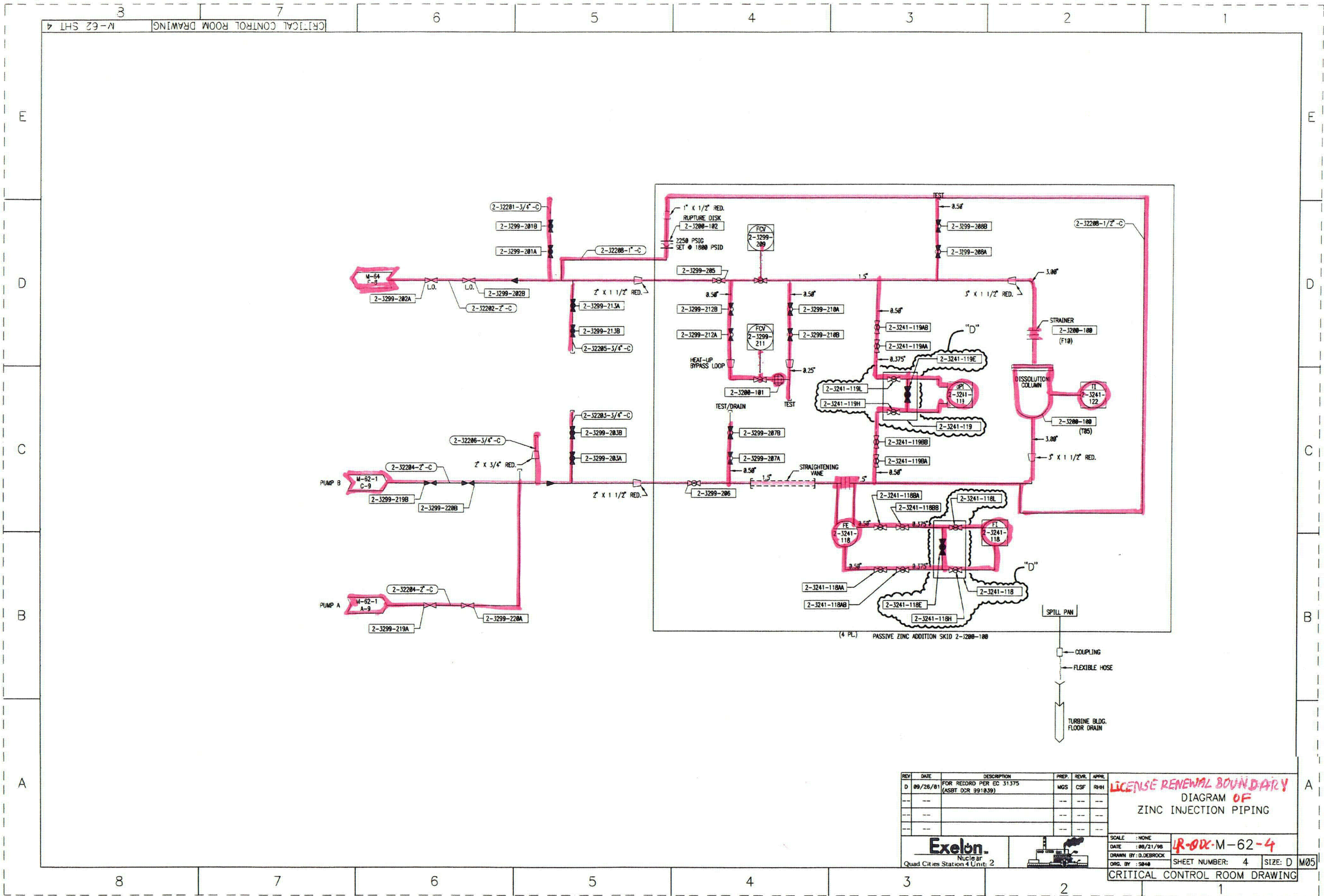
REV	DATE	DESCRIPTION	PREP.	REV.	APPR.
0	11/13/02	INITIAL ISSUE	RMO	JSL	MAH

LICENSE RENEWAL BOUNDARY DIAGRAM OF REACTOR FEED PIPING

LR-QDC-M-62-1







REV	DATE	DESCRIPTION	PREP.	REVR.	APPR.
D	09/26/01	FOR RECORD PER EC 31375 (ASST DCR 991839)	MGS	CSF	RH4
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---	---	---	---	---	---

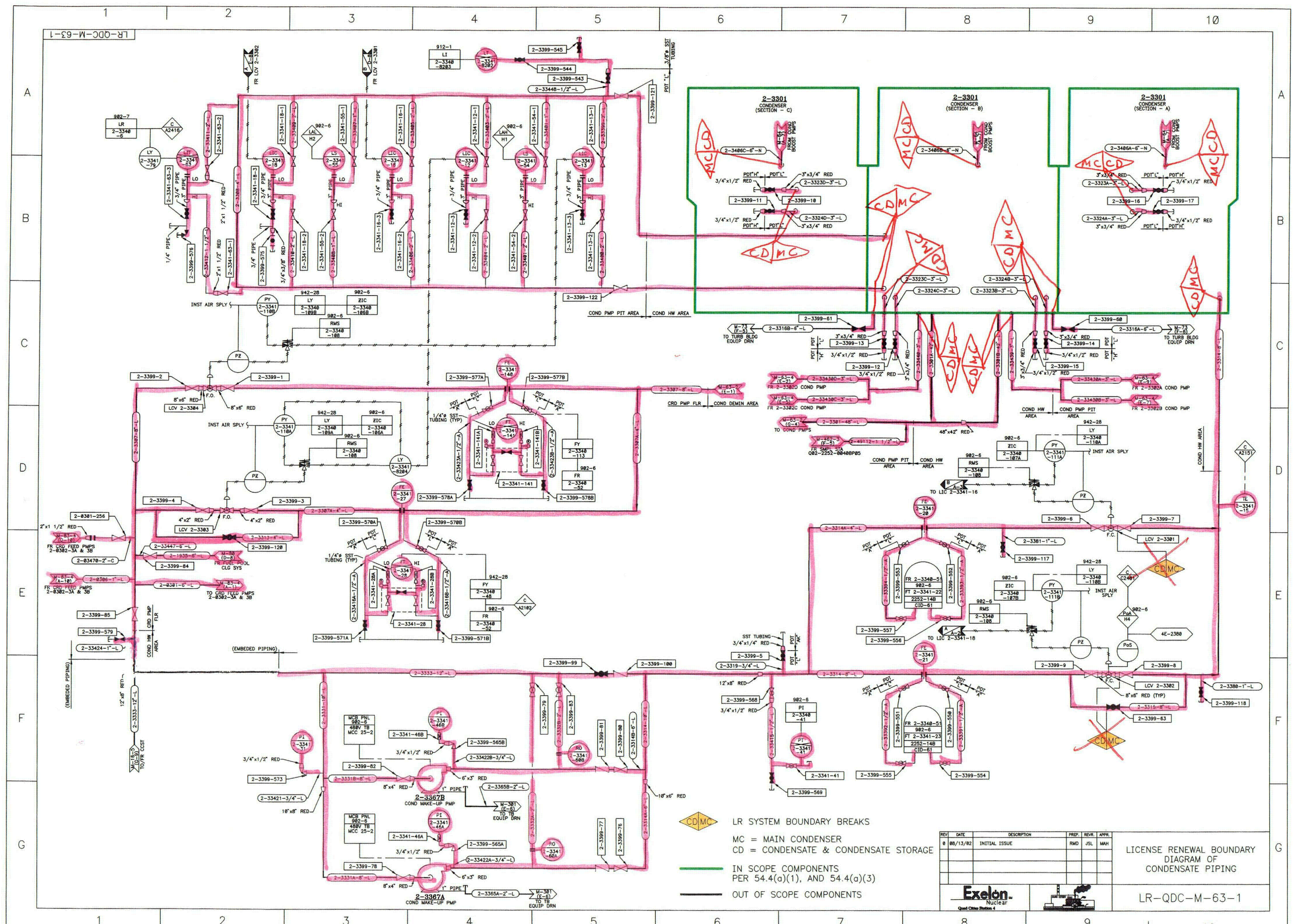
**LICENSE RENEWAL BOUNDARY**  
**DIAGRAM OF**  
**ZINC INJECTION PIPING**




**EX-62-4**

SCALE	NONE
DATE	08/21/98
DRAWN BY	D. DEBROCK
ORG. BY	5848
SHEET NUMBER	4
SIZE	D M05

**CRITICAL CONTROL ROOM DRAWING**

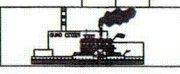
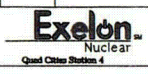




 LR SYSTEM BOUNDARY BREAKS  
 MC = MAIN CONDENSER  
 CD = CONDENSATE & CONDENSATE STORAGE  
 IN SCOPE COMPONENTS PER 54.4(a)(1), AND 54.4(a)(3)  
 OUT OF SCOPE COMPONENTS

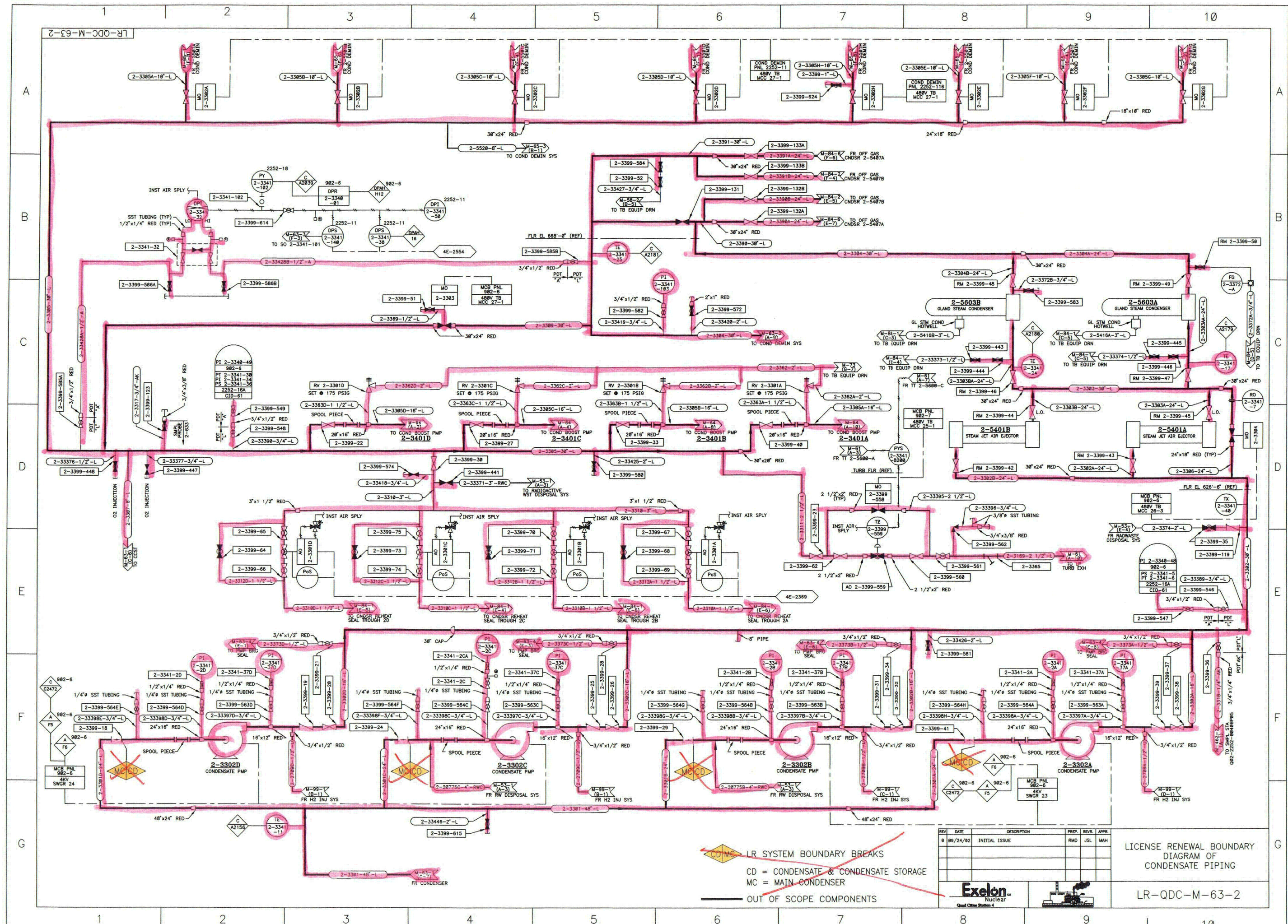
REV	DATE	DESCRIPTION	PREP.	REVR.	APPR.
0	08/13/02	INITIAL ISSUE	RMD	JSL	MAH

LICENSE RENEWAL BOUNDARY DIAGRAM OF CONDENSATE PIPING



LR-QDC-M-63-1



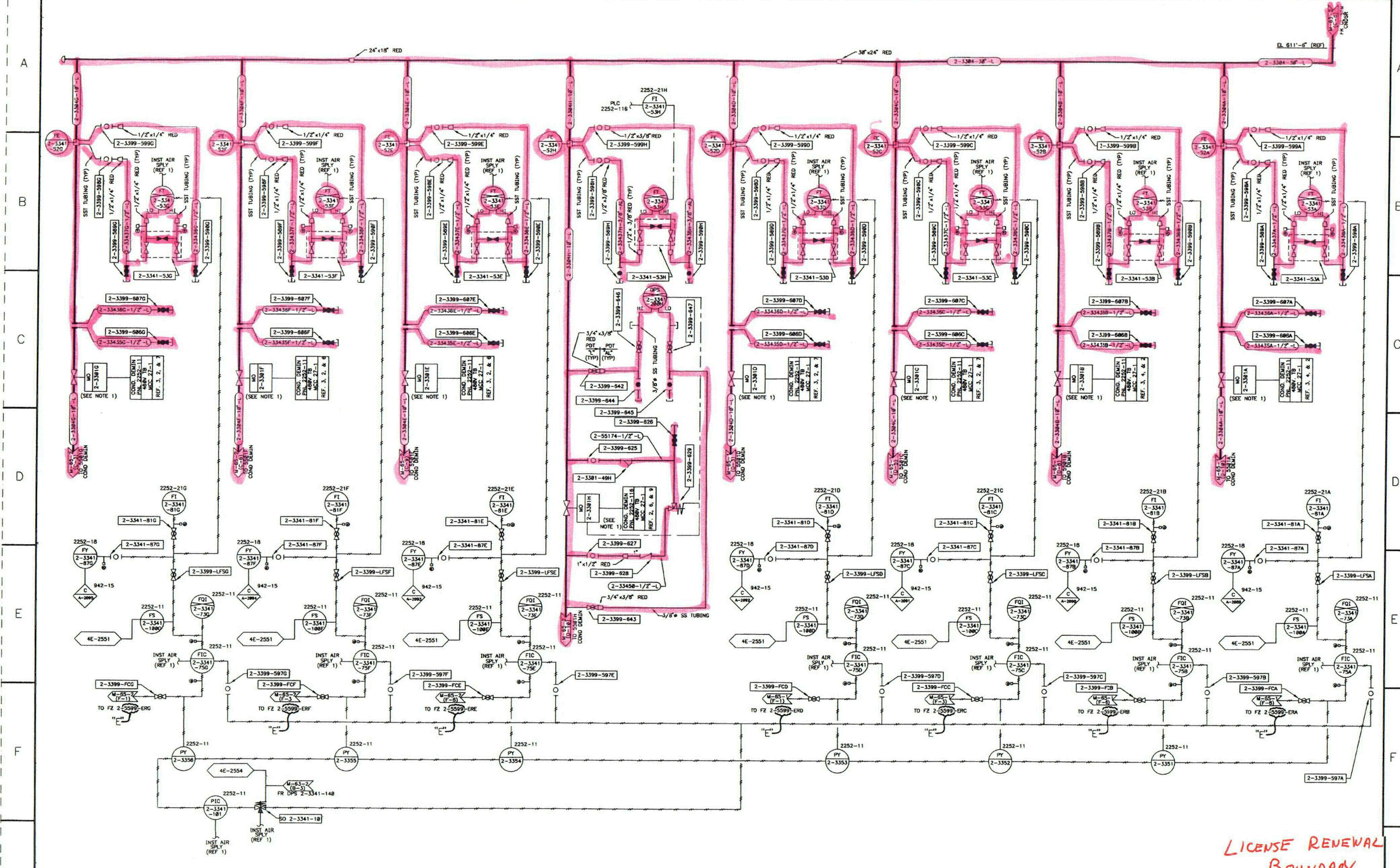


LR SYSTEM BOUNDARY BREAKS  
 CD = CONDENSATE & CONDENSATE STORAGE  
 MC = MAIN CONDENSER  
 — OUT OF SCOPE COMPONENTS

REV	DATE	DESCRIPTION	PREP	REV	APPR
0	09/24/02	INITIAL ISSUE	RMD	JSL	MAH
1					
2					

LICENSE RENEWAL BOUNDARY  
 DIAGRAM OF  
 CONDENSATE PIPING  
  
 Exelon  
 Nuclear  
 Quad Cities Station 4  
 LR-QDC-M-63-2





NOTES:  
 1. VALVES M-63-2 THROUGH H WILL CARRY AN ADDITIONAL DESIGNATOR ON THE MANUFACTURER'S VALVE SEQUENCE CHARTS AND OPERATING INSTRUCTIONS. THE MANUFACTURER'S ADDITIONAL DESIGNATOR WILL BE A 3A-3B.

REFERENCES:  
 1. M-71 SH 1 DIAGRAM OF INSTRUMENT AIR PIPING.  
 2. 4E-2389, K/D 480V TB M-63-2 & 2  
 3. 4E-2551, S/D COND. DEMIN. PK. 2252-11  
 4. 4E-2678A, W & S/D 480V M-63-2-1  
 5. 4E-2678B, W & S/D 480V M-63-2-1  
 6. 4E-2678C, W & S/D 480V M-63-2-1  
 7. 4E-2678D, W & S/D 480V M-63-2-1  
 8. 4E-2875, WIRING TAB. INSTRUMENT SYS. (COMPUTER INPUTS)  
 9. 4E-2792W, S/D M-63-2-3301H

● INSTRUMENT CALIBRATION POINT  
 — 1/4\"/>

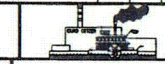
LICENSE RENEWAL  
 BOUNDARY

DIAGRAM OF  
 CONDENSATE PIPING  
 LR-QDC-2  
 M-63-3

REV	DATE	DESCRIPTION	PREP.	REV.	APPR.
E	EDSF	FOR RECORD PER EC DCR 344730	EDSF	EDSF	EDSF

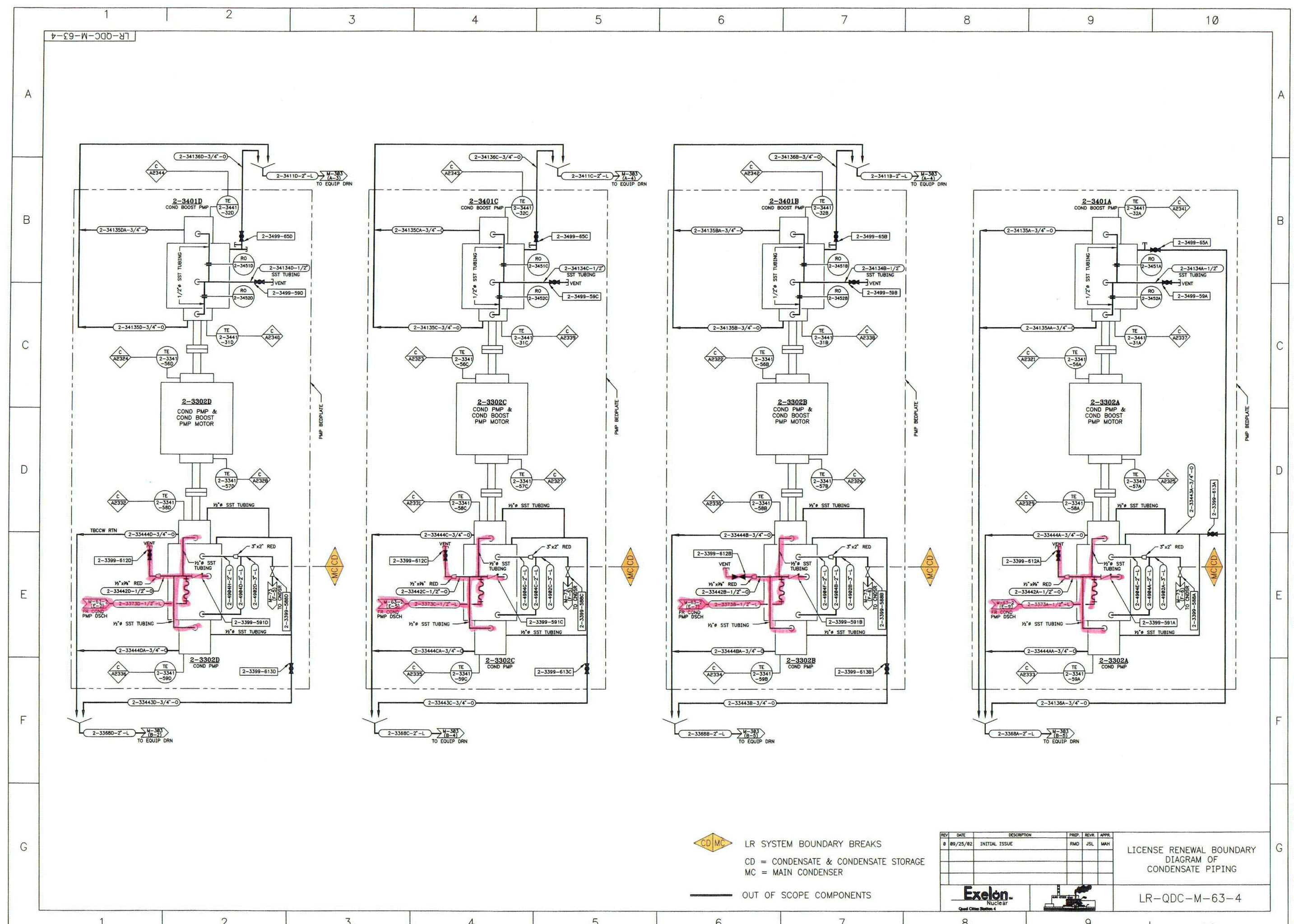
SCALE: NONE  
 DATE: 02/07/00  
 DRAWN BY: M. H. MURPHY  
 DRC BY: CS02  
 SHEET NUMBER: 3  
 SIZE: F  
 M-63-3



Exelon  
 Nuclear  
 Quad Cities Station 4 Unit: 2



CRITICAL CONTROL ROOM DRAWING

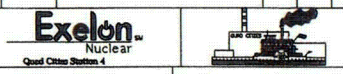




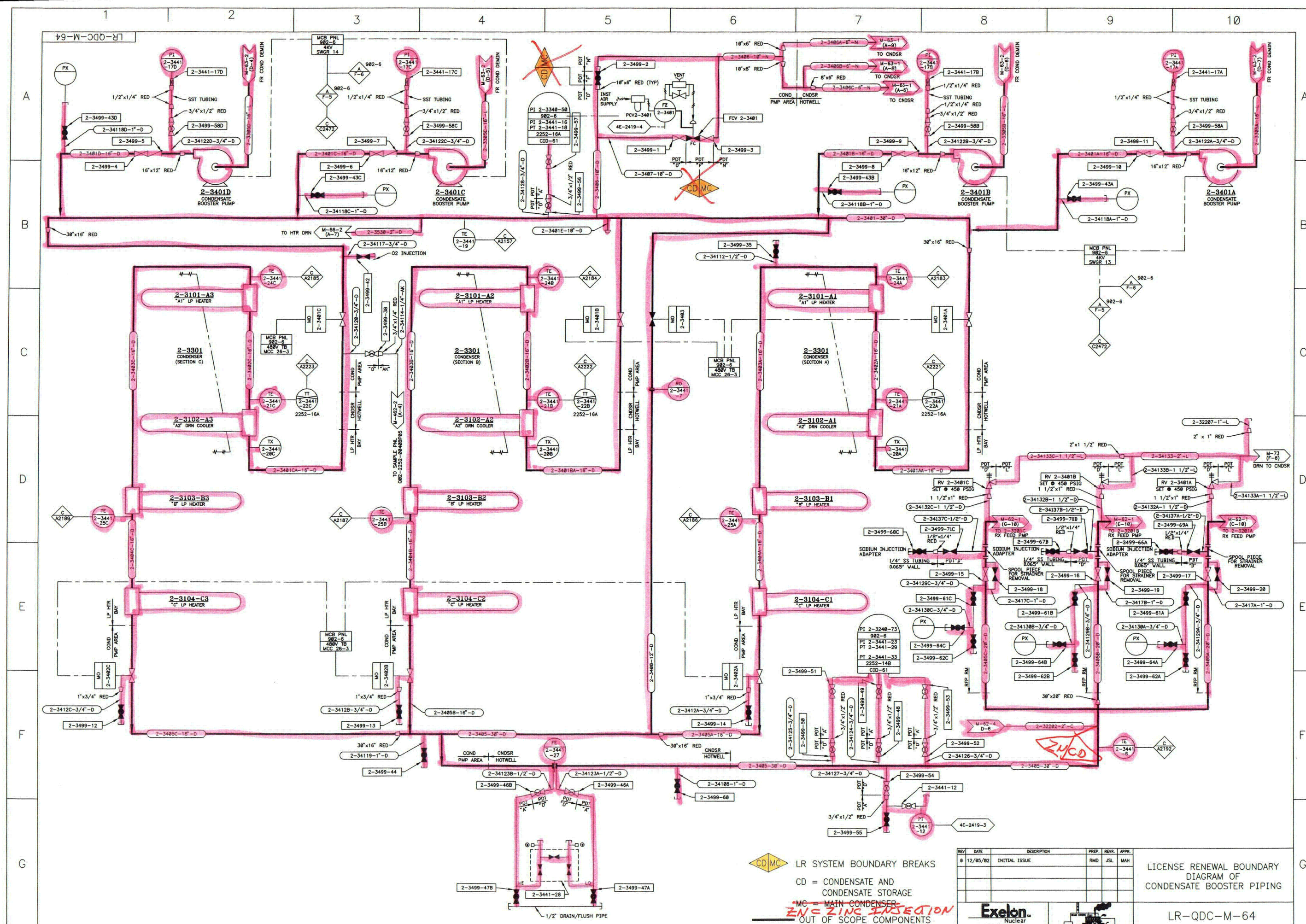
 LR SYSTEM BOUNDARY BREAKS  
 CD = CONDENSATE & CONDENSATE STORAGE  
 MC = MAIN CONDENSER  
 OUT OF SCOPE COMPONENTS

REV	DATE	DESCRIPTION	PREP.	REV.	APPR.
0	09/25/02	INITIAL ISSUE	RMD	JSL	MAH

LICENSE RENEWAL BOUNDARY  
 DIAGRAM OF  
 CONDENSATE PIPING  
  
 LR-QDC-M-63-4







REV	DATE	DESCRIPTION	PREP.	REV.	APPR.
0	12/05/02	INITIAL ISSUE	RMD	JSL	MAH

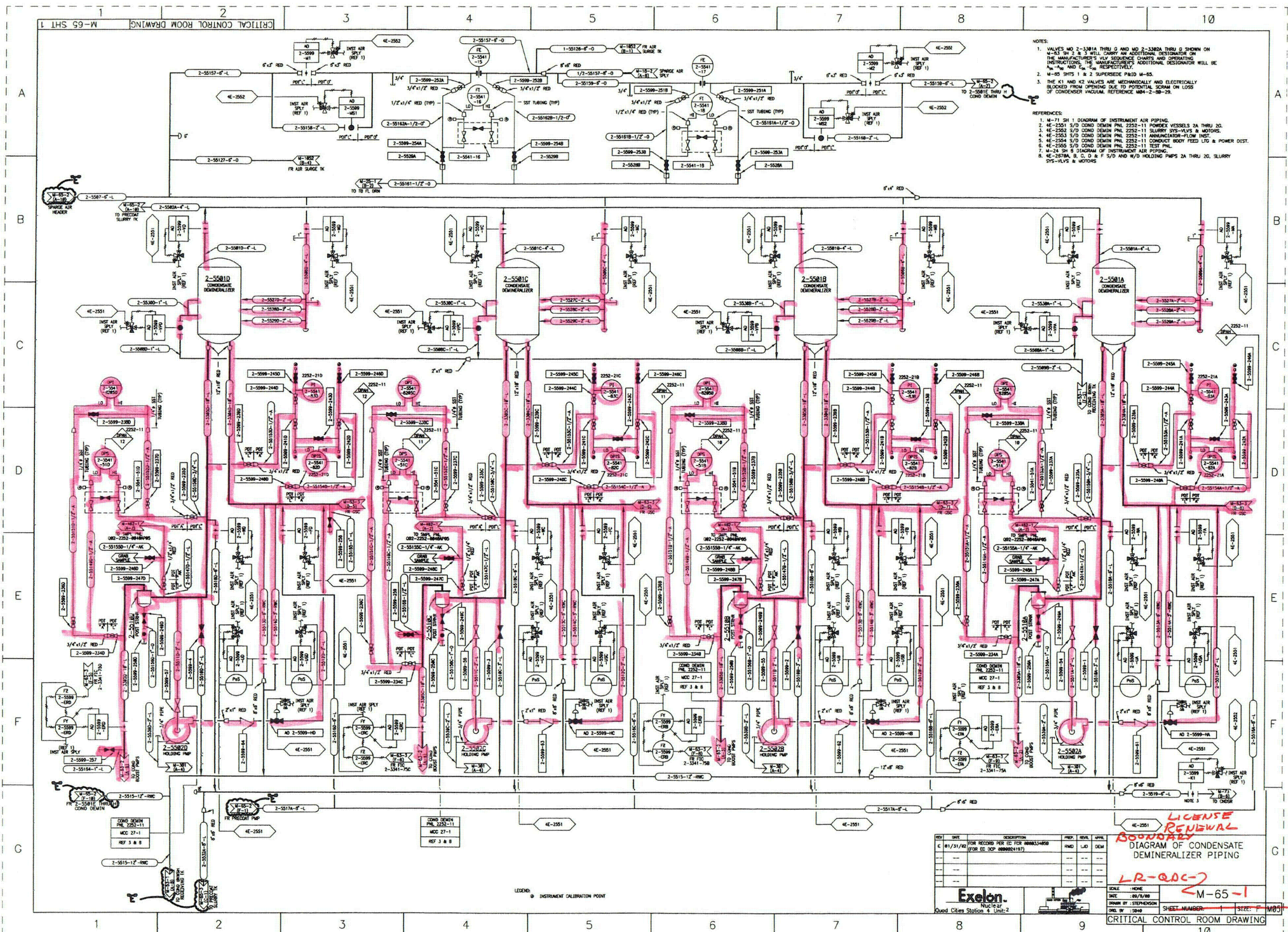
LICENSE RENEWAL BOUNDARY  
DIAGRAM OF  
CONDENSATE BOOSTER PIPING



LR-QDC-M-64

◆ LR SYSTEM BOUNDARY BREAKS  
◆ CD = CONDENSATE AND CONDENSATE STORAGE  
◆ MC = MAIN CONDENSER  
◆ ZN = ZINC INJECTION OUT OF SCOPE COMPONENTS





NOTES:

1. VALVES MD 2-5510A THRU D AND MD 2-5502A THRU G SHOWN ON M-65 SH 2 & 3 WILL CARRY AN ADDITIONAL DESIGNATOR ON THE MANUFACTURER'S OWN SEQUENCE CHARTS AND OPERATING INSTRUCTIONS. THE MANUFACTURER'S ADDITIONAL DESIGNATOR WILL BE "A", "B", AND "C" RESPECTIVELY.
2. M-65 SHITS 1 & 2 SUPERSEDE PAID M-65.
3. THE K1 AND K2 VALVES ARE MECHANICALLY AND ELECTRICALLY BLOCKED FROM OPENING DUE TO POTENTIAL SCRAM ON LOSS OF CONDENSER VACUUM. REFERENCE MM-2-98-29.

REFERENCES:

1. M-71 SH 1 DIAGRAM OF INSTRUMENT AIR PIPING.
2. 4E-2501 5/8" COND DEMIN PNL 2252-11 POWER VESSELS 2A THRU 2C.
3. 4E-2502 5/8" COND DEMIN PNL 2252-11 SLURRY SYS-VLVS & MOTORS.
4. 4E-2503 5/8" COND DEMIN PNL 2252-11 ANNUNCIATOR-FLOW INST.
5. 4E-2504 5/8" COND DEMIN PNL 2252-11 CONDUCTIVITY TEST LG & POWER DIST.
6. 4E-2505 5/8" COND DEMIN PNL 2252-11 TEST PNL.
7. M-24 SH 6 DIAGRAM OF INSTRUMENT AIR PIPING.
8. 4E-2578A, B, C, D & F 5/8" AND W/D HOLDING PMS 2A THRU 2C, SLURRY SYS-VLVS & MOTORS.

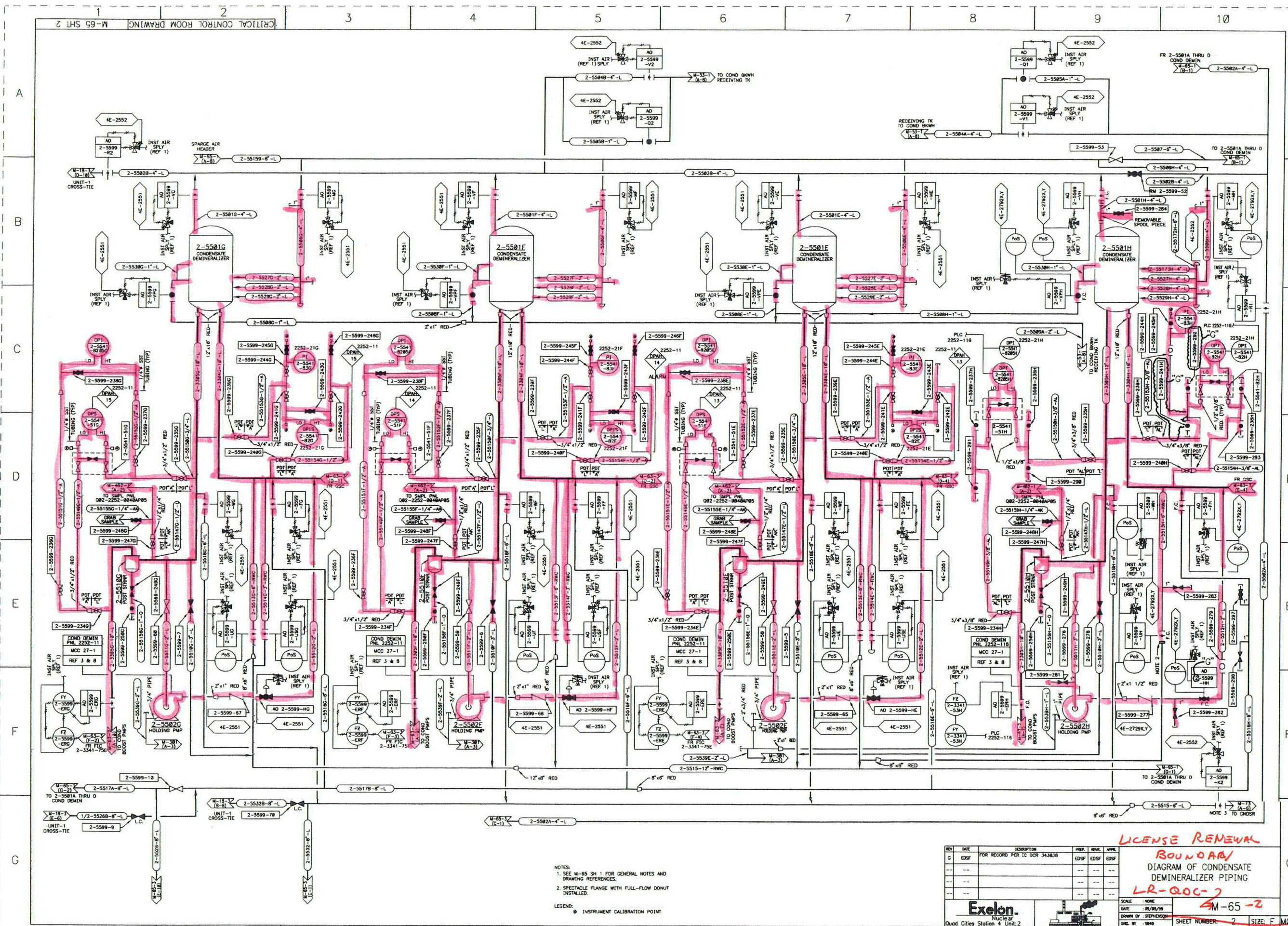
LEGEND: INSTRUMENT CALIBRATION POINT

REV	DATE	DESCRIPTION	PREP	REV	APPR
1	01/31/80	FOR RECORD PER EC FOR 0000034000 (FOR EC DEP 0000024197)	RAM	LD	DEM
2					
3					
4					
5					

LICENSE RENEWAL  
BOONALY  
DIAGRAM OF CONDENSATE  
DEMINERALIZER PIPING

LR-00C-2  
M-65-1



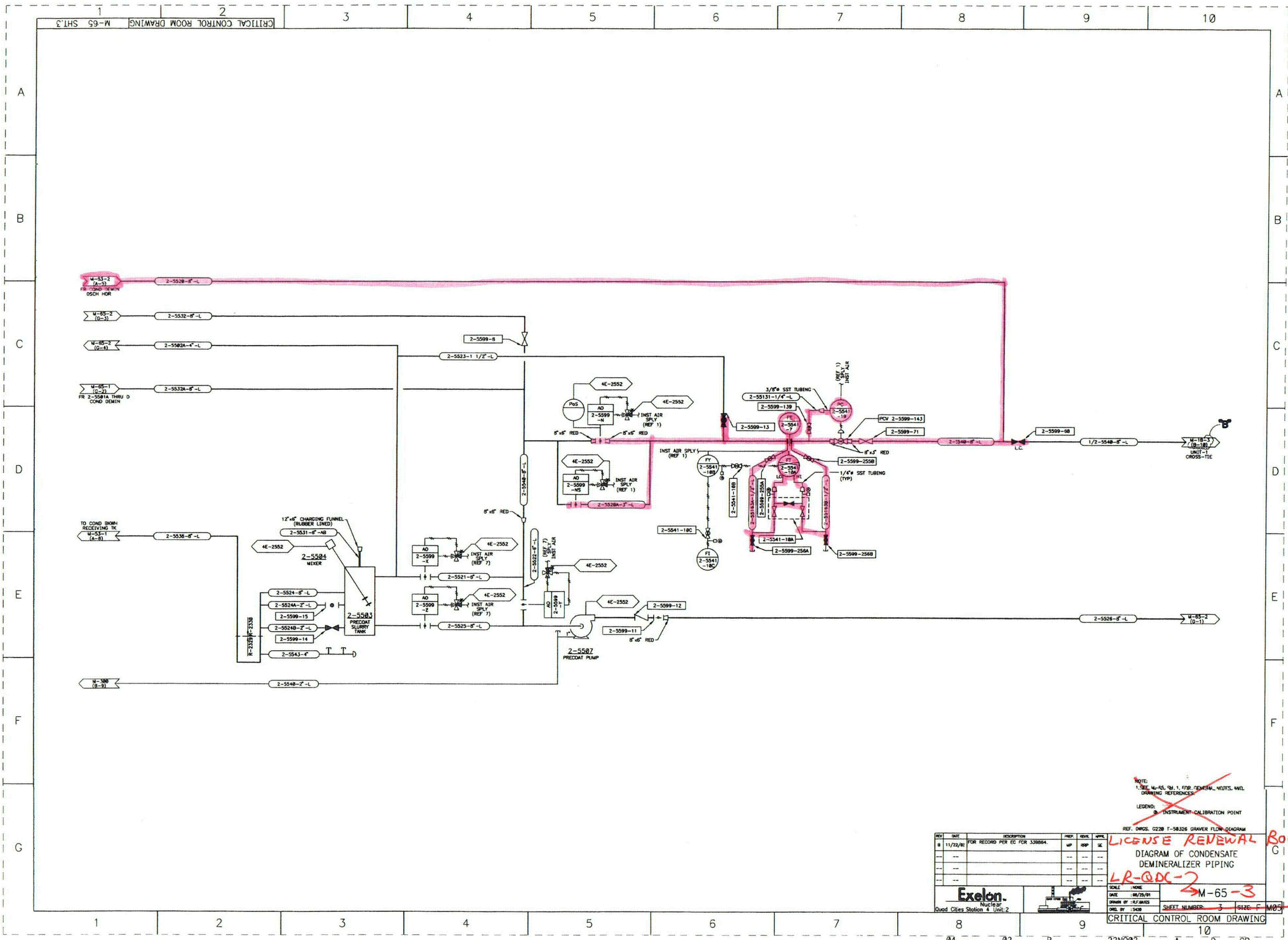


NOTES:  
 1. SEE M-65 SH 1 FOR GENERAL NOTES AND DRAWING REFERENCES.  
 2. SPECTACLE FLANGE WITH FULL-FLOW DONUT INSTALLED.  
 LEGEND:  
 ● INSTRUMENT CALIBRATION POINT

REV	DATE	DESCRIPTION	PREP.	REV.	APPR.
G	EDSF	FOR RECORD PER TIC DCR 343838	EDSF	EDSF	EDSF
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---	---	---	---	---	---
---	---	---	---	---	---

**LICENSE RENEWAL**  
**BOUNDARY**  
 DIAGRAM OF CONDENSATE  
 DEMINERALIZER PIPING  
 LR-00C-2  
 M-65-2  
 SCALE: NONE  
 DATE: 10/05/79  
 DRAWN BY: STEPHENSON  
 ORD. BY: 1940  
 SHEET NUMBER: 2  
 SIZE: F (M25)  
 CRITICAL CONTROL ROOM DRAWING





NOTE:  
 1. SEE M-65-3, 1. 578P. GENERAL NOTES, AND DRAWING REFERENCES.  
 LEGEND:  
 \* INSTRUMENT CALIBRATION POINT

REF. DWGS. C228 F-58326 GRAVER FLOW DIAGRAM

REV	DATE	DESCRIPTION	PREP	CHKD	APPR
1	11/22/80	FOR RECORD PER EC FOR 339064.	UP	IMP	SC
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**LICENSE RENEWAL BOUNDARY**  
 M-65-3  
 3  
 M-65-3  
 CRITICAL CONTROL ROOM DRAWING

**Exelon**  
 Nuclear  
 Quad Cities Station 4 Unit 2

SCALE: NONE  
 DATE: 06/25/91  
 DRAWN BY: JF:JMS  
 DWG. NO.: 5438

SHEET NUMBER: 3  
 SIZE: F M05