

NOTES
 1. FOR ELECTRICAL SCHEMATIC REFERENCE SEE M-45-3.
 2. EPN NO'S. ON THIS DRAWING WITHOUT THE UNIT DESIGNATION PREFIX 2 OR 3 SHALL BE UNDERSTOOD TO HAVE 2/3 (COMMON) PREFIX TO MATCH THE EPN NO'S. LISTED IN EWS.

REV	DATE	DESCRIPTION	PREP.	REV.	APPR.
AJ	EDSF	DCP 0000332286, CDP 0000332286	EDSF	EDSF	EDSF

SCALE: NONE
 DATE: _____
 DRAWN BY: _____
 ORG. BY: ELS3

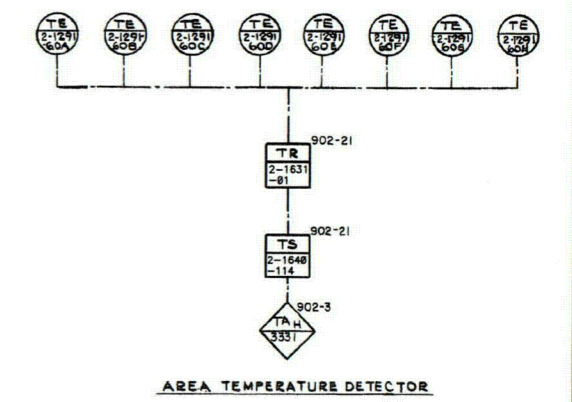
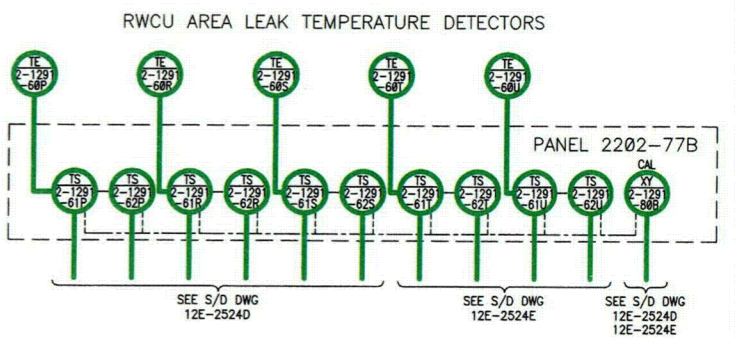
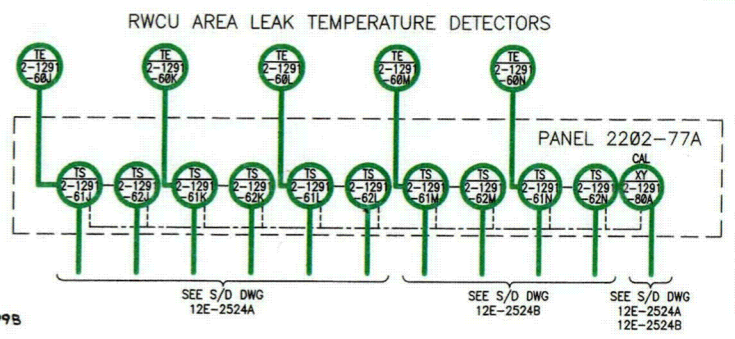
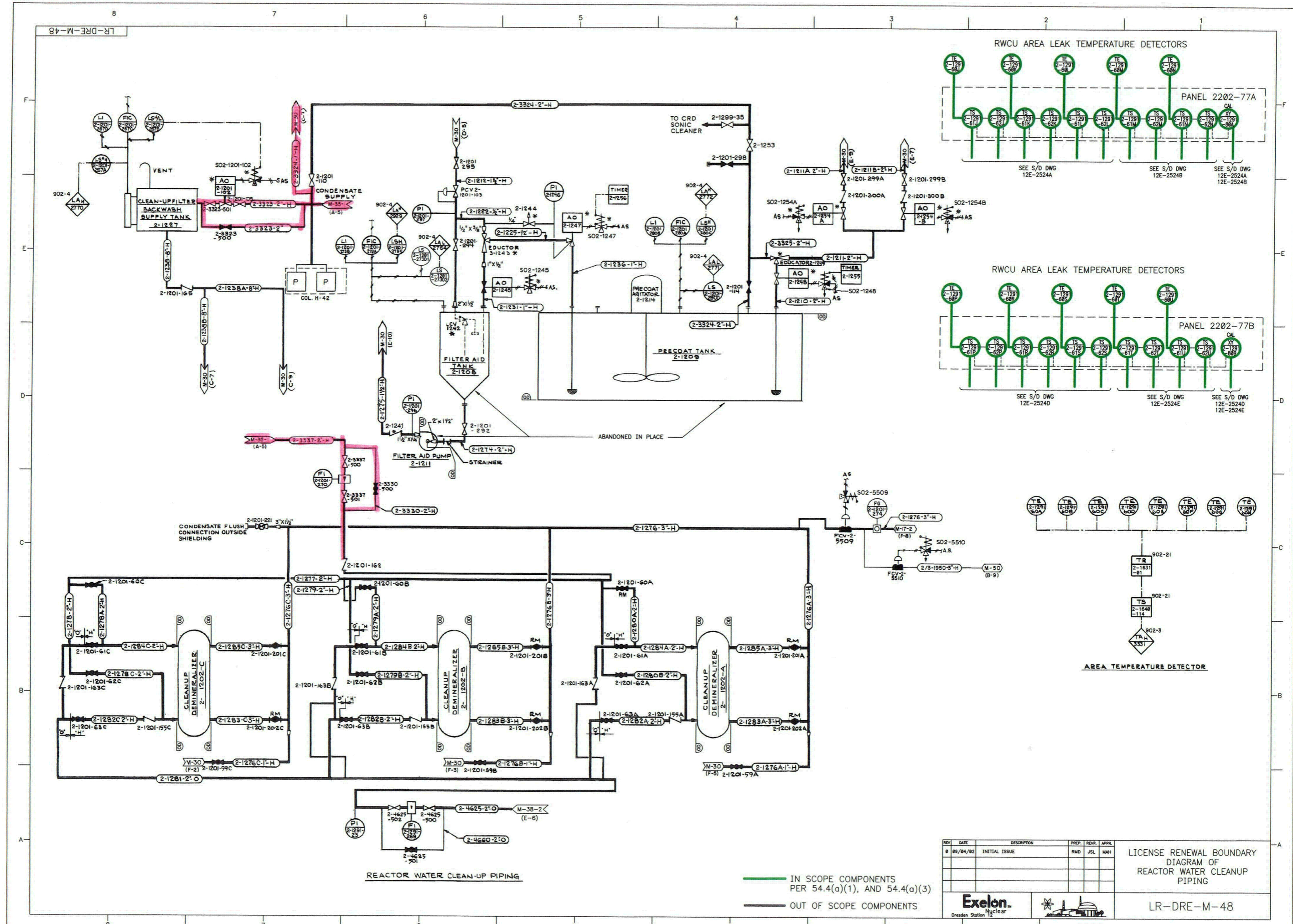
LR LICENSE RENEWAL

BOUNDARY DIAGRAM OF RADWASTE COLLECTION SUBSYSTEM PIPING

LR-DRES

Exelon
 Dresden Station Unit 2 & 3

SHEET NUMBER: **M-45-1**
 SIZE: 11x17



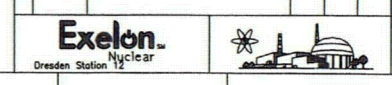
REACTOR WATER CLEAN-UP PIPING

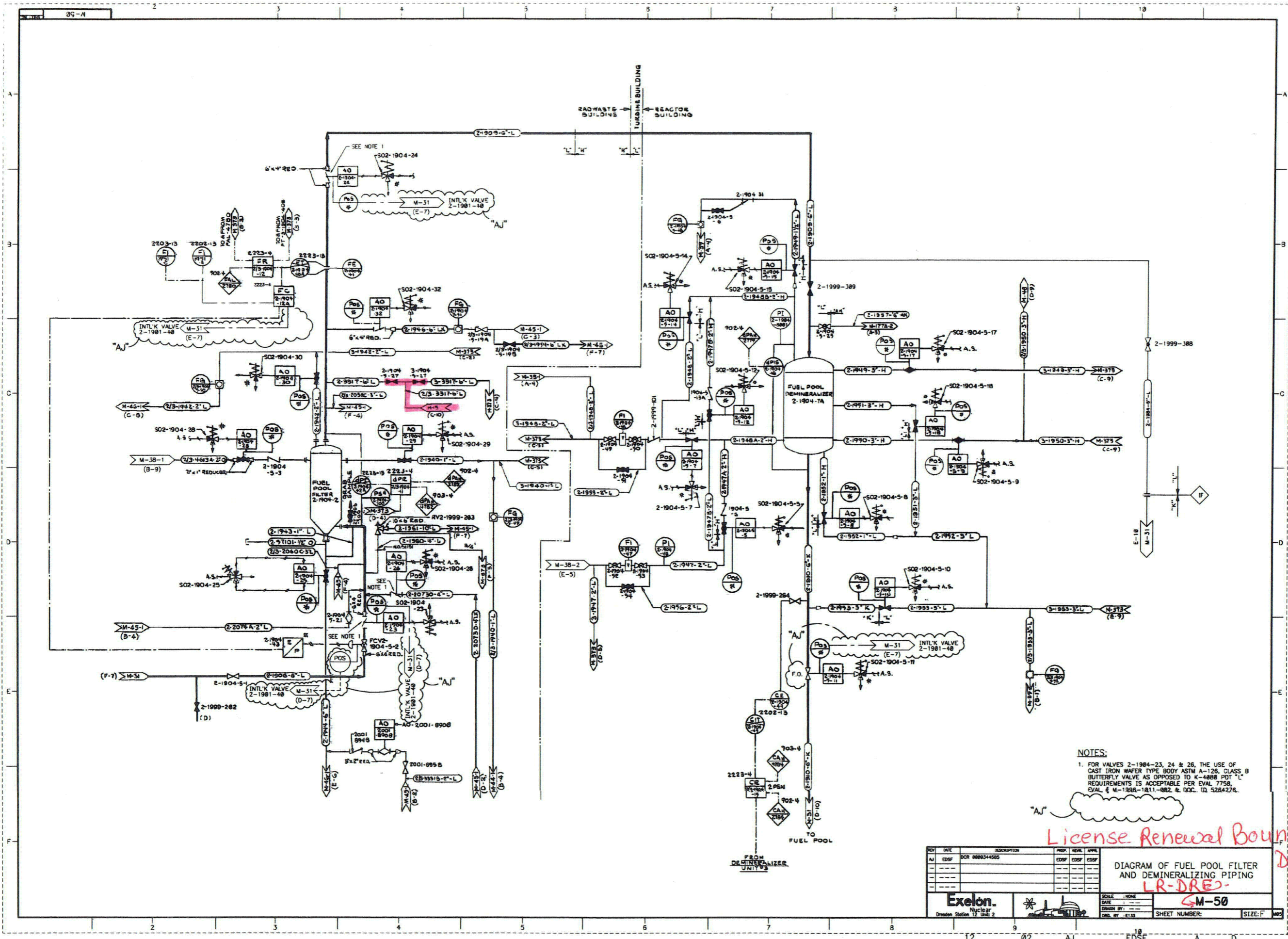
— IN SCOPE COMPONENTS PER 54.4(a)(1), AND 54.4(a)(3)
— OUT OF SCOPE COMPONENTS

REV	DATE	DESCRIPTION	PREP	REVR	APPR
0	09/04/02	INITIAL ISSUE	RMD	JSL	MAH

LICENSE RENEWAL BOUNDARY DIAGRAM OF REACTOR WATER CLEANUP PIPING

LR-DRE-M-48





NOTES:
 1. FOR VALVES 2-1904-23, 24 & 26, THE USE OF CAST IRON WAFER TYPE BODY ASTM A-126, CLASS B BUTTERFLY VALVE AS OPPOSED TO K-4868 POT "L" REQUIREMENTS IS ACCEPTABLE PER EVAL 7758, EVAL # M-139A-1011-002, & DDC ID 526426.

"AJ"

License Renewal Boundary
 Diagram

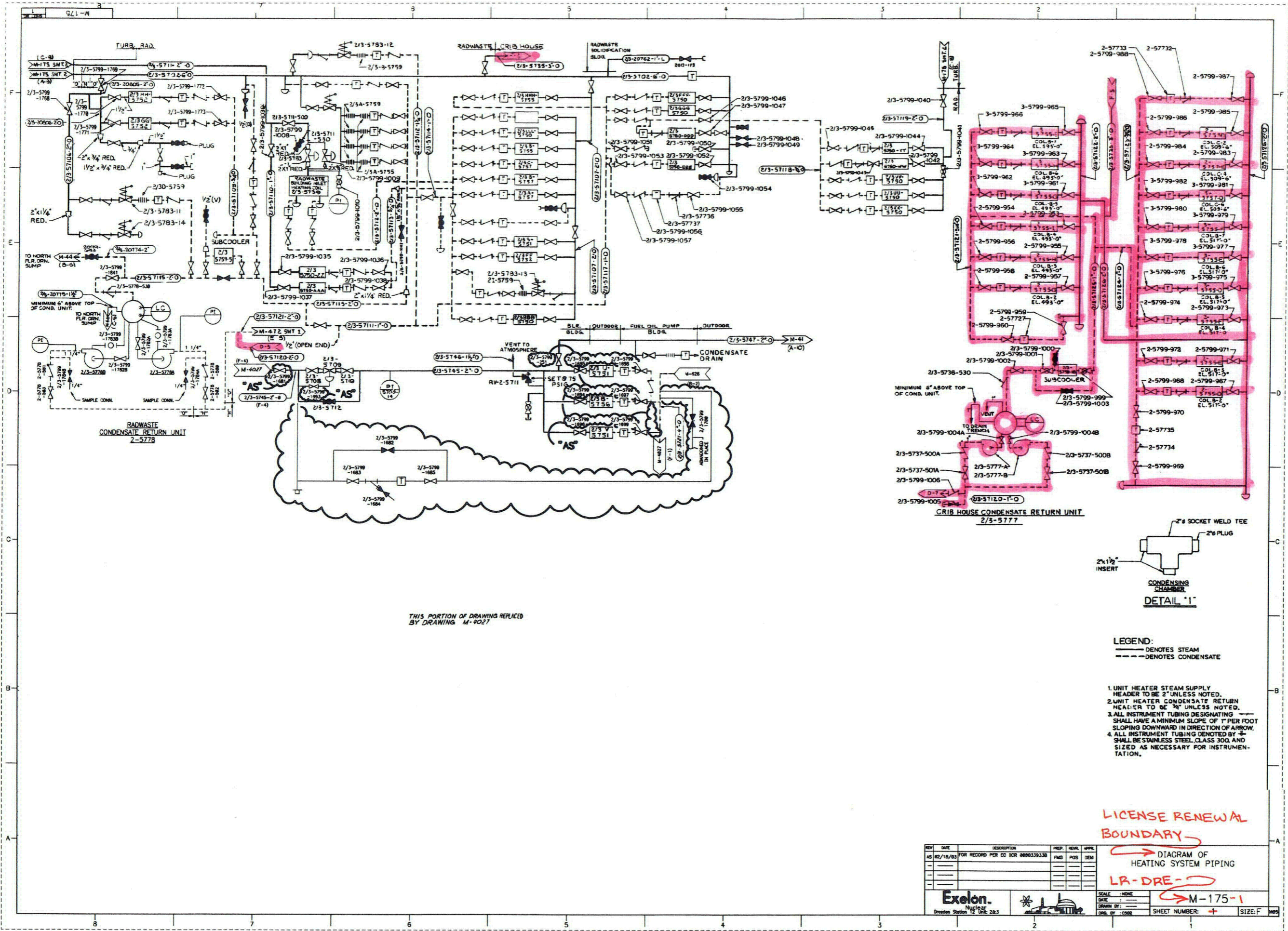
REV	DATE	DESCRIPTION	PREP	REVL	APPR
AJ	EDSF	DCR 88834455	EDSF	EDSF	EDSF
---	---	---	---	---	---
---	---	---	---	---	---

DIAGRAM OF FUEL POOL FILTER AND DEMINERALIZING PIPING
 LR-DRE-
 M-50

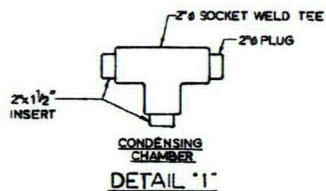
Exelon Nuclear
 Dresden Station 12 Unit 2

SCALE: NONE
 DATE: ---
 DRAWN BY: ---
 CDR BY: E133

SHEET NUMBER: ---
 SIZE: F



THIS PORTION OF DRAWING REPLACED BY DRAWING M-4027



LEGEND:
 --- DENOTES STEAM
 - - - DENOTES CONDENSATE

1. UNIT HEATER STEAM SUPPLY HEADER TO BE 2" UNLESS NOTED.
2. UNIT HEATER CONDENSATE RETURN HEADER TO BE 3/4" UNLESS NOTED.
3. ALL INSTRUMENT TUBING DESIGNATING SHALL HAVE A MINIMUM SLOPE OF 1" PER FOOT SLOPING DOWNWARD IN DIRECTION OF ARROW.
4. ALL INSTRUMENT TUBING DENOTED BY Φ SHALL BE STAINLESS STEEL CLASS 300 AND SIZED AS NECESSARY FOR INSTRUMENTATION.

LICENSE RENEWAL BOUNDARY

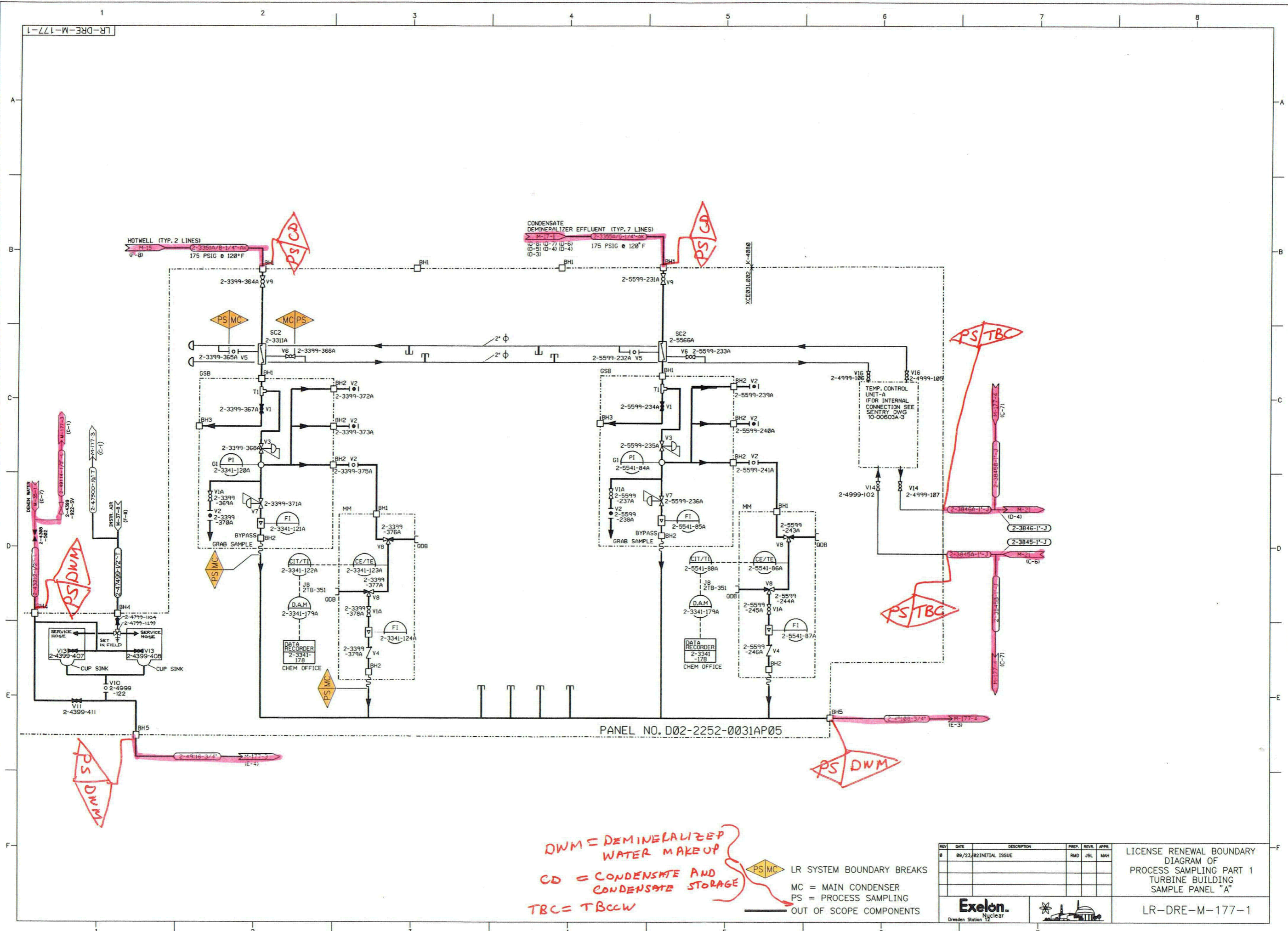
DIAGRAM OF HEATING SYSTEM PIPING

LR-DRE-
 M-175-1

REV	DATE	DESCRIPTION	PREP.	REVL.	APPR.
AS	02/18/03	FOR RECORD PER EC DCR 0800339330	PMO	POS	DEM

Exelon Nuclear
 Dresden Station 12, Unit 2B.3

SCALE: NONE
 DATE: ---
 DRAWN BY: ---
 CMB BY: CMBR
 SHEET NUMBER: +
 SIZE: F

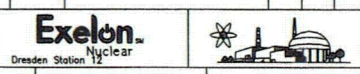


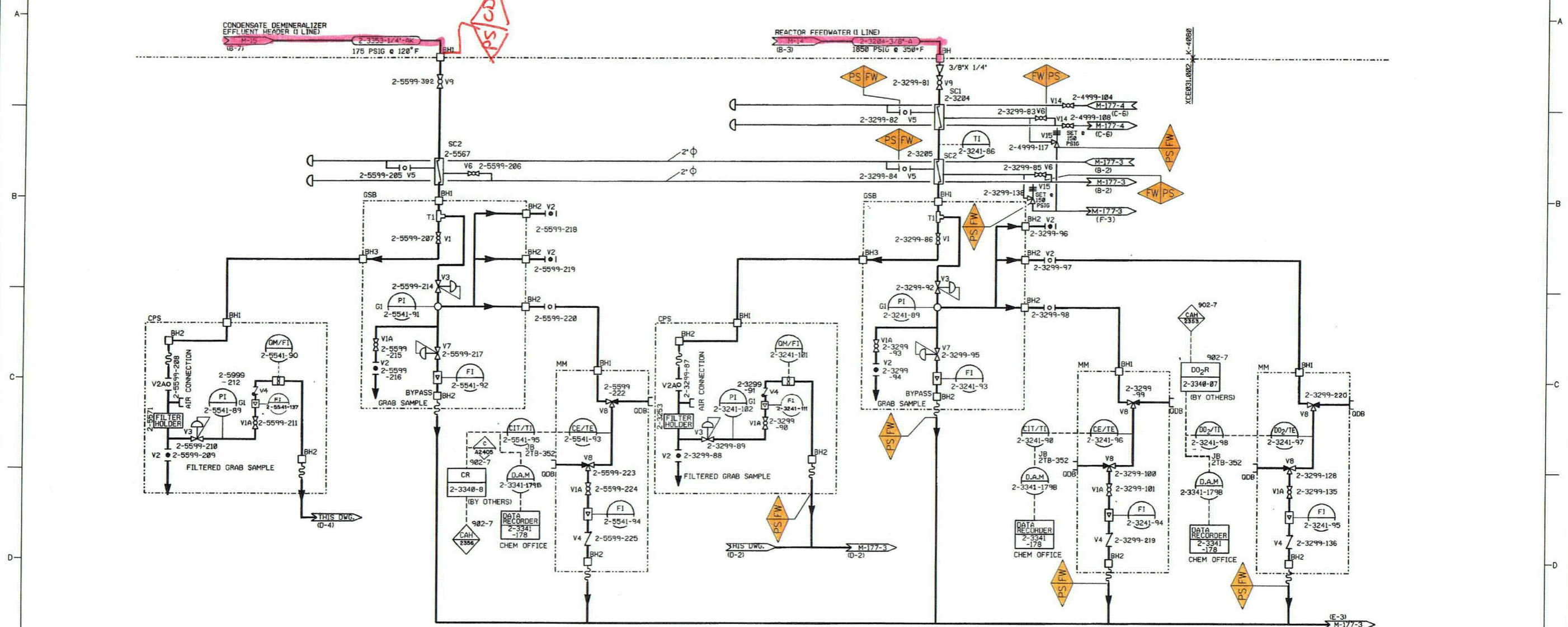
DWM = DEMINERALIZED WATER MAKEUP
 CD = CONDENSATE AND CONDENSATE STORAGE
 TBC = TBCW

PS/MC LR SYSTEM BOUNDARY BREAKS
 MC = MAIN CONDENSER
 PS = PROCESS SAMPLING
 - - - - - OUT OF SCOPE COMPONENTS

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

LICENSE RENEWAL BOUNDARY DIAGRAM OF PROCESS SAMPLING PART 1 TURBINE BUILDING SAMPLE PANEL "A"
 LR-DRE-M-177-1





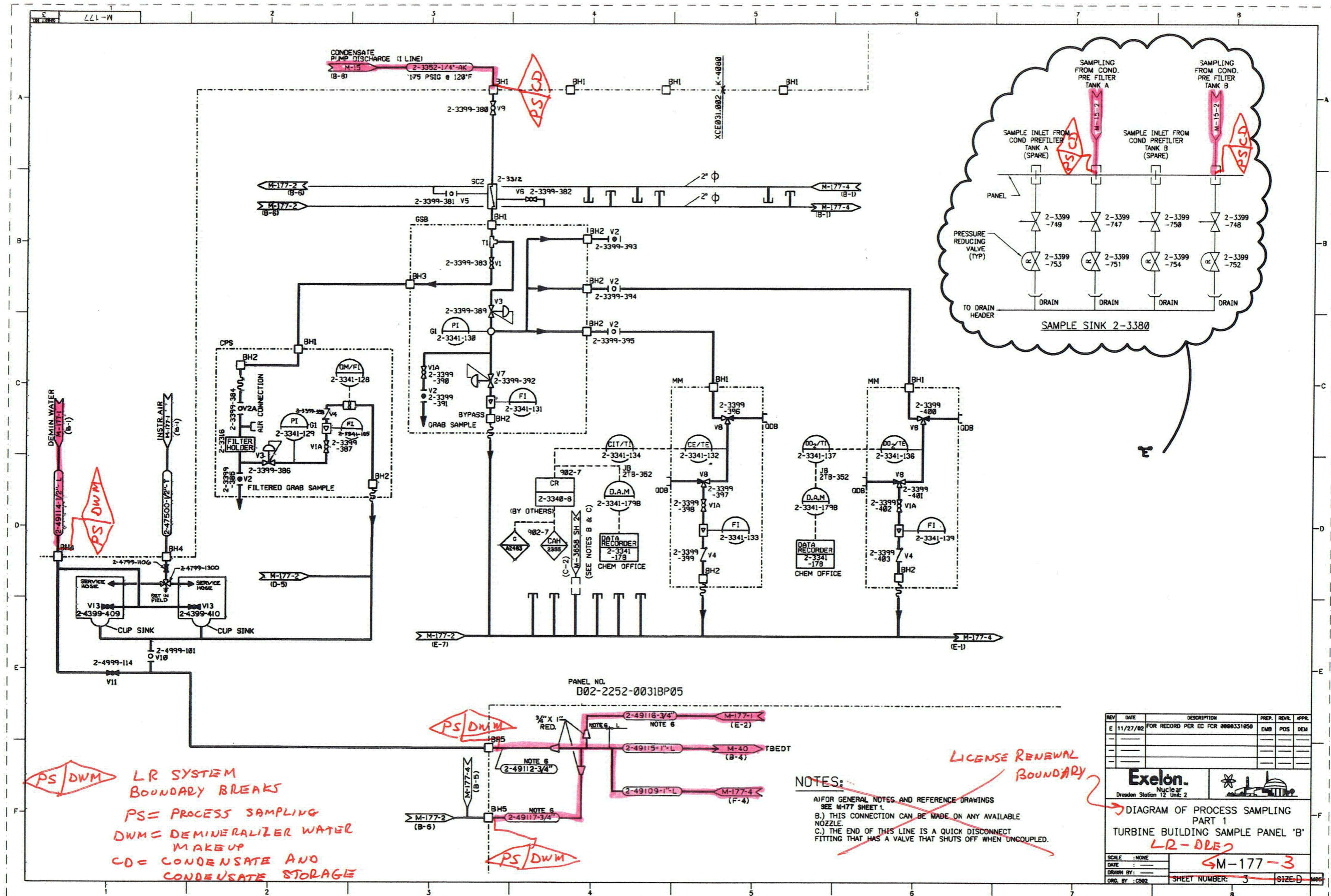
PANEL NO. D02-2252-0031BP05

CD = CONDENSATE AND CONDENSATE STORAGE

- LR SYSTEM BOUNDARY BREAKS
- FW = FEEDWATER
- PS = PROCESS SAMPLING
- OUT OF SCOPE COMPONENTS

REV	DATE	DESCRIPTION	PREP.	REV.	APPR.
0	11/16/02	INITIAL ISSUE			

<p>LICENSE RENEWAL BOUNDARY DIAGRAM OF PROCESS SAMPLING PART 1 TURBINE BLDG SAMPLE PANEL B</p>	<p>Exelon Nuclear Dresden Station 12</p>		<p>LR-DRE-M-177-2</p>
--	--	--	-----------------------



PS/DWM
 LR SYSTEM
 BOUNDARY BREAKS
 PS = PROCESS SAMPLING
 DWM = DEMINERALIZER WATER
 MAKEUP
 CO = CONDENSATE AND
 CONDENSATE STORAGE

NOTES:
 A) FOR GENERAL NOTES AND REFERENCE DRAWINGS
 SEE M-177 SHEET 1.
 B.) THIS CONNECTION CAN BE MADE ON ANY AVAILABLE
 NOZZLE.
 C.) THE END OF THIS LINE IS A QUICK DISCONNECT
 FITTING THAT HAS A VALVE THAT SHUTS OFF WHEN UNCOUPLED.

REV	DATE	DESCRIPTION	PREP.	REVL.	APPL.
E	11/27/02	FOR RECORD PER EC FOR 0000331050	EMB	POS	DEM
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

Exelon
 Nuclear
 Dresden Station 12 Unit 2

DIAGRAM OF PROCESS SAMPLING
 PART 1
 TURBINE BUILDING SAMPLE PANEL 'B'
 LR-025

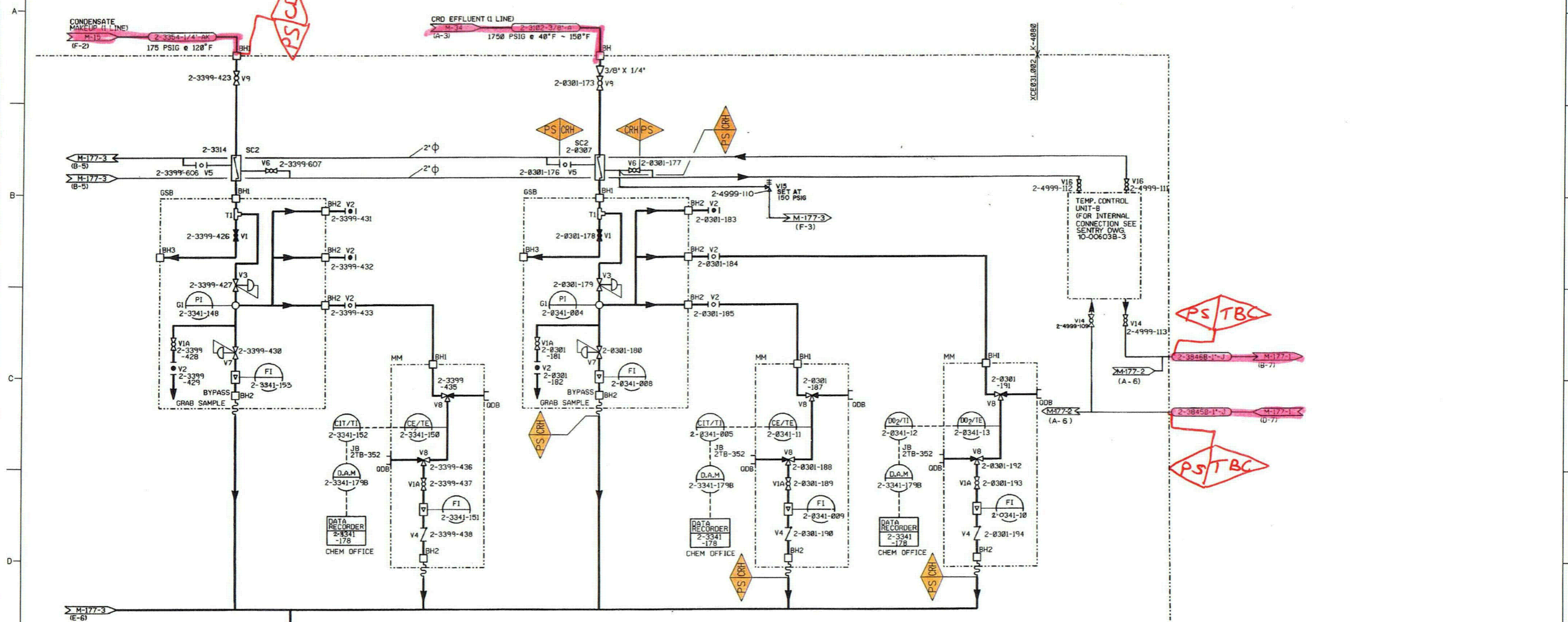
SCALE: NONE
 DATE: _____
 DRAWN BY: _____
 ORG. BY: C502

SHEET NUMBER: 3
 SIZE: D

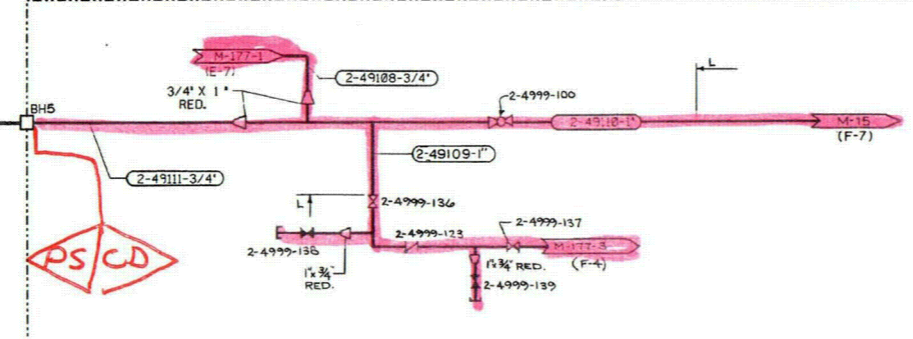
PANEL NO.
 D02-2252-0031BP05

LICENSE RENEWAL
 BOUNDARY

M-177-3



PANEL NO. D02-2252-0031BP05



CD = CONDENSATE AND CONDENSATE STORAGE
 TBC = TBCCW

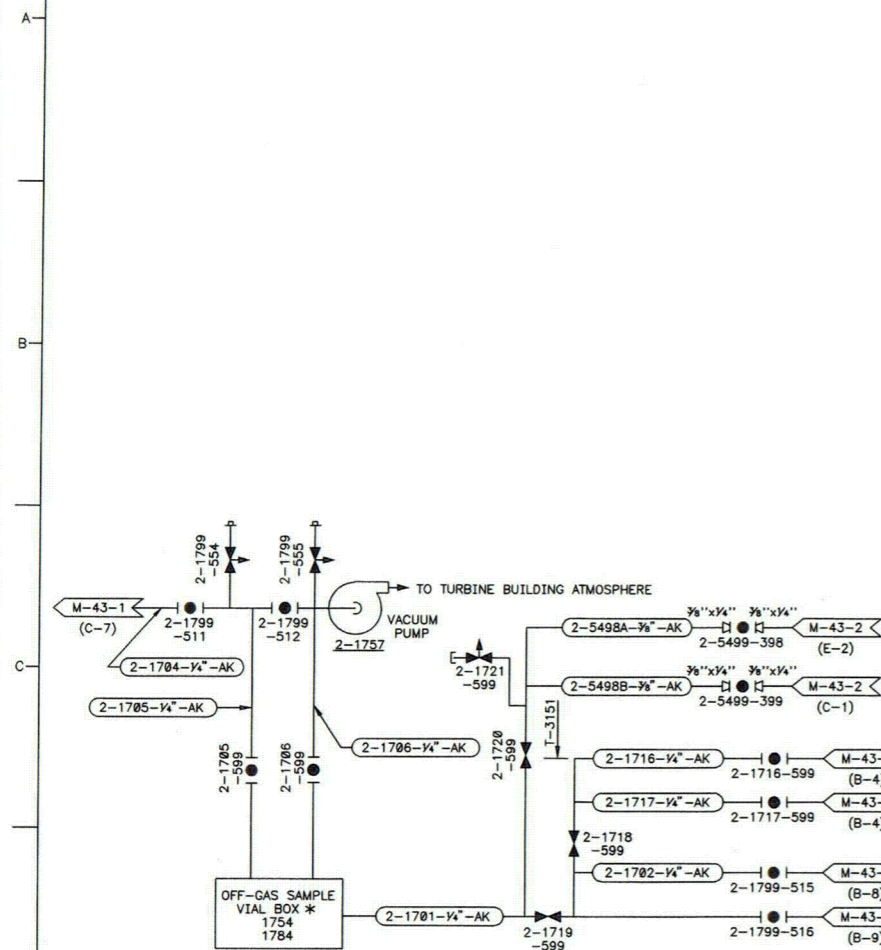
LR SYSTEM BOUNDARY BREAKS
 CRH = CONTROL ROD DRIVE HYDRAULIC
 PS = PROCESS SAMPLING
 OUT OF SCOPE COMPONENTS

REV	DATE	DESCRIPTION	PREP.	REV.	APPR.
0	11/18/02	INITIAL ISSUE	RMD	JSL	MAH

LICENSE RENEWAL BOUNDARY DIAGRAM OF PROCESS SAMPLING PART 1 TURBINE BLDG SAMPLE PANEL B

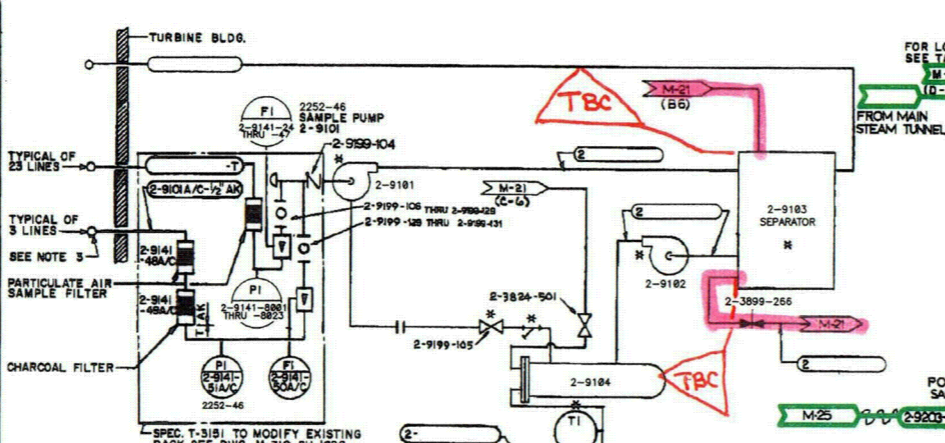
Dresden Station

LR-DRE-M-177-4



LOCATION	APPROX. ELEV.	COL. ROW DESIG.
AIR EJECTOR COMPARTMENT "A" MIDDLE OF ROOM	565'-0"	37-D
AIR EJECTOR COMPARTMENT "B" MIDDLE OF ROOM	565'-0"	39-D
TURBINE BUILDING EXHAUST DUCT	550'-0"	40-C
TURBINE PEDESTAL NORTH OF MAIN STEAM STOP VALVES	550'-0"	41-F
CONCRETE BEAM OVER TURB. BY-PASS	550'-0"	41-G
TURBINE PEDESTAL SOUTH OF AND ON OF "B" LOW PRESS. CYLINDER	546'-0"	38-F
"D" HIGH PRESS. HTR. COMPARTMENT AT CEILING BETWEEN HTRs. 2-D1 & 2	557'-0"	39-B
NORTH CONDENSATE DEMINERALIZER ROOM AND CEILING	531'-0"	41-C
SOUTH CONDENSATE DEMINERALIZER ROOM AND CEILING	531'-0"	41-D
CONDENSATE DEMINERALIZER REGENERATIVE ROOM AND CEILING	530'-6"	42 & 43
UNDER WEST END OF TURB. PEDESTAL BETWEEN HIGH PRESS. CYL. & MONITOR	551'-0"	42 AT TURB. E
NORTHWEST VERTICAL PEDESTAL SUPPORT "A" LOW PRESSURE TURBINE	525'-0"	40-E
NORTHWEST VERTICAL PEDESTAL SUPPORT "B" LOW PRESSURE TURBINE	525'-0"	39-E
NORTHWEST VERTICAL PEDESTAL SUPPORT "C" LOW PRESSURE TURBINE	525'-0"	37-E
UNDER CONDENSER HOTWELL IN CONDENSER PIT ROOM AT CENTER	481'-0"	38-E
PITOT TUBE IN VENT DUCT UPSTREAM OF RADWASTE EXHAUST FAN	536'-0"	42-43
PITOT TUBE IN VENT DUCT DOWN-STREAM OF RADWASTE EXHAUST FAN	536'-0"	42-43
CEILING OF EAST HOPPER	541'-0"	42-C
CEILING OF WEST HOPPER	541'-0"	42-C
CEILING OF SOLID WASTE LOADING AREA BETWEEN MIX. STA. & DRUM EL.	528'-0"	41-C
PITOT TUBE IN EXHAUST DUCT FROM RADWASTE FILTER	A THRU E BETWEEN 528'-6"	45 & 46
PITOT TUBE IN EXHAUST DUCT FROM SPENT RESIN TK. RM. & NEUT. TK. RM.	495'-0"	45-C
PITOT TUBE IN EXHAUST DUCT FROM CONCENTRATOR FEED PREHEATER COMP.	528'-6"	BETWEEN 45 & 46

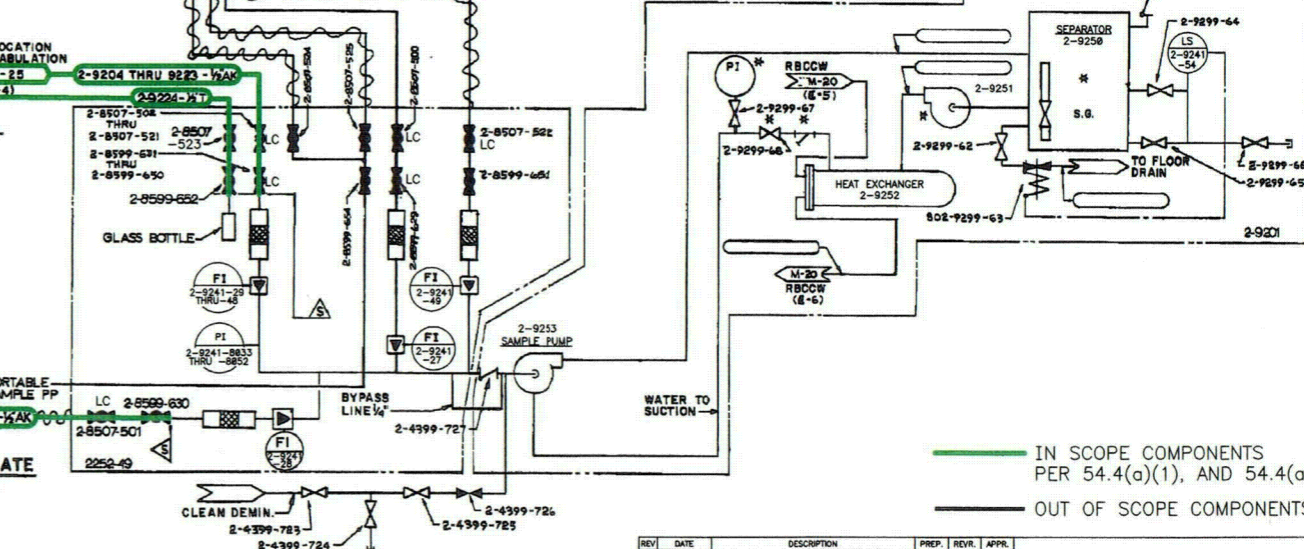
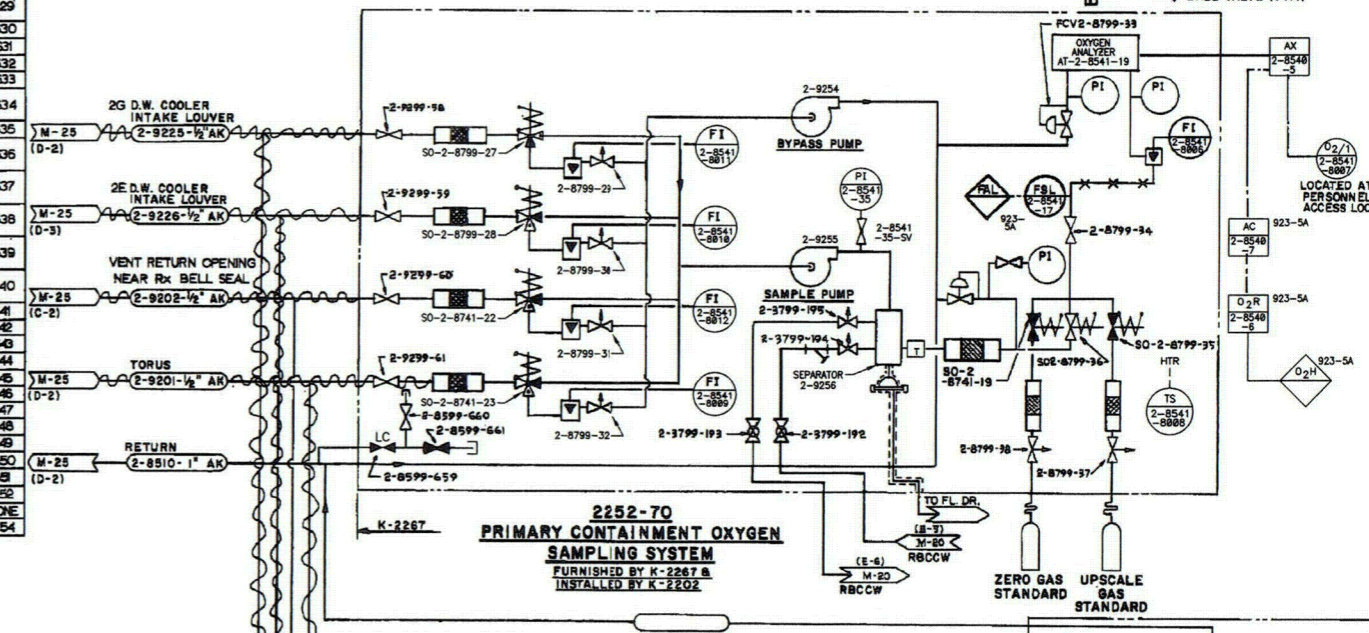
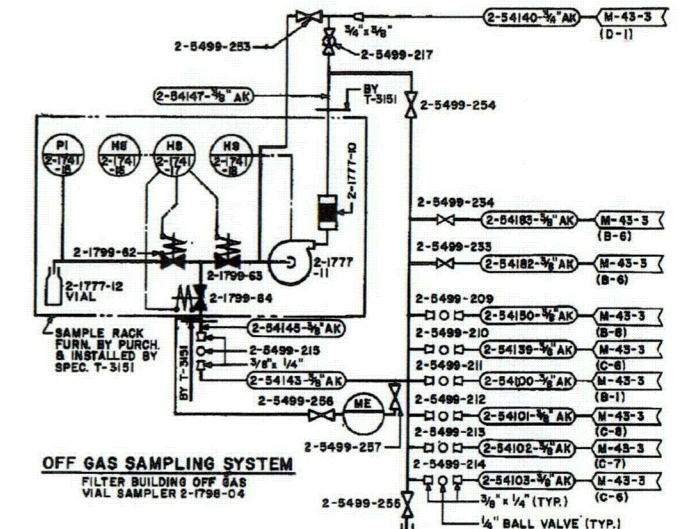
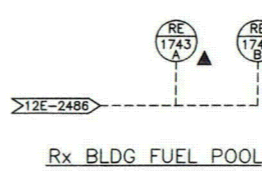
TURBINE BUILDING AIR PARTICULATE SAMPLE LOCATION TABULATION



LOCATION	APPROX. ELEV.	COL. ROW DESIG.	LINE NO.	SAMPLE POINT NO.
OFF GAS CONDENSER 2A CUBICLE	605'-0"	38-D	2-9101A-1/2" AK	28
OFF GAS CONDENSER & CATALYTIC RECOMBINER 2B CUBICLE	596'-0"	39-D	2-9101B-1/2" AK	24
OFF GAS CATALYTIC RECOMBINER 2A CUBICLE	586'-0"	36-D	2-9101C-1/2" AK	25
SPARE				29
SPARE				30

No.	LOCATION	ELEV.	VALVE 2507	VALVE 8599
1	VENT RETURN OPENING NEAR RX BELL SEAL	588'	500	629
2	RX VENT HEAD (=33"-N30)	588'	501	630
3	HIB NOZZLE	546'	502	631
4	HPCI LINE NEAR STAIRWAY TO 588'	572'	503	632
5	ISO-CONDENSER VALVE 1301-2	572'	504	633
6	ELECTROMAGNETIC RELIEF VALVES OVER STEAM LINES A/B	572'	505	634
7	185' NEAR "N" CORESPRAY	572'	506	635
8	ELECTROMAGNETIC RELIEF VALVES OVER STEAM LINES C/D	555'	507	636
9	MO-2-202-6A, REC. LOOP CROSSTIE NEAR VALVE BON.	534'	508	637
10	MO-2-202-6B, REC. LOOP CROSSTIE NEAR VALVE BON.	534'	509	638
11	MO-2-202-4A REC. PUMP SUCTION NEAR VALVE BON.	509'	510	639
12	MO-2-202-4B REC. PUMP SUCTION NEAR VALVE BON.	515'	511	640
13	REC. PUMP 2A, SHAFT SEAL	513'	512	641
14	REC. PUMP 2B, SHAFT SEAL	513'	513	642
15	MO-2-202-5A RECIRC. PUMP DISCHARGE	513'	514	643
16	BIOSHIELD WALL 300' AZ.	518'	515	644
17	PRI. SIM. ISOL. VALVES BETWEEN C/D	517'	516	645
18	PRI. SIM. ISOL. VALVES BETWEEN D/A	517'	517	646
19	PRI. SIM. ISOL. VALVES BETWEEN A/B	517'	518	647
20	CRD SUBPILE ROOM (=50' ON WALL)	510'	519	648
21	BIOSHIELD WALL 290' AZ.	521'	520	649
22	BIOSHIELD WALL 120' AZ.	521'	521	650
23	TORUS		522	651
24	STEAM TUNNEL SAMPLE	518'-6"	523	652
25	2G DRYWELL COOLER INTAKE LOUVER	524	NONE	
26	2E DRYWELL COOLER INTAKE LOUVER	525	654	

PRIMARY CONTAINMENT AIR SAMPLE LOCATION TABULATION

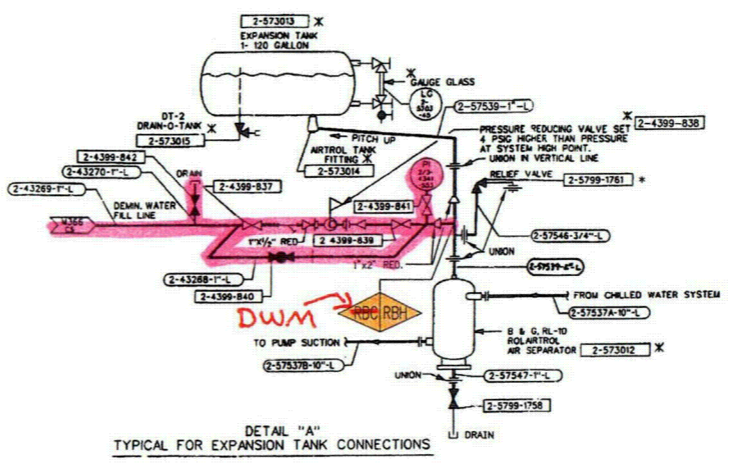
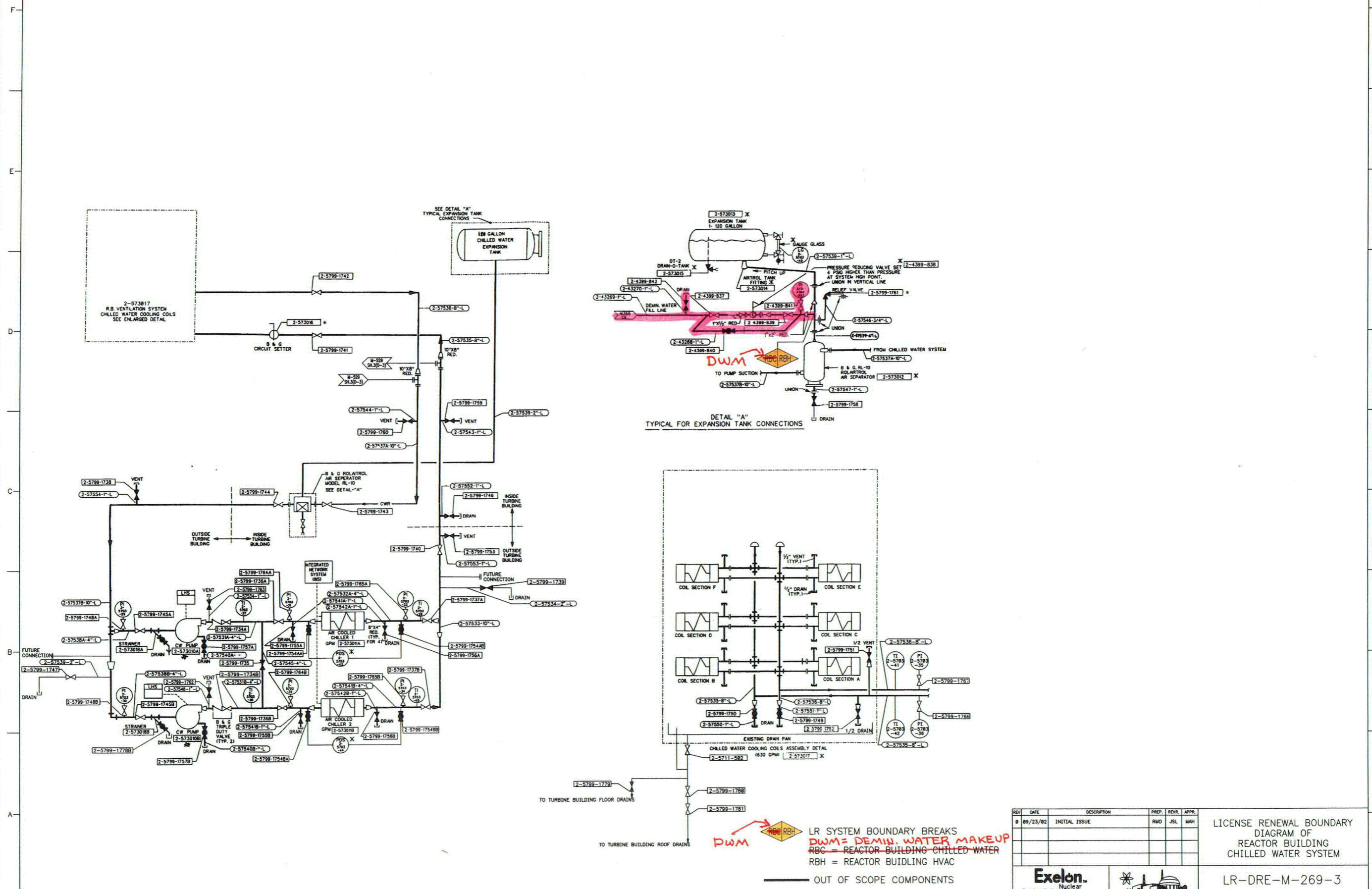


PRIMARY CONTAINMENT PARTICULATE SAMPLING SYSTEM (FURNISHED & INSTALLED BY K-2202)

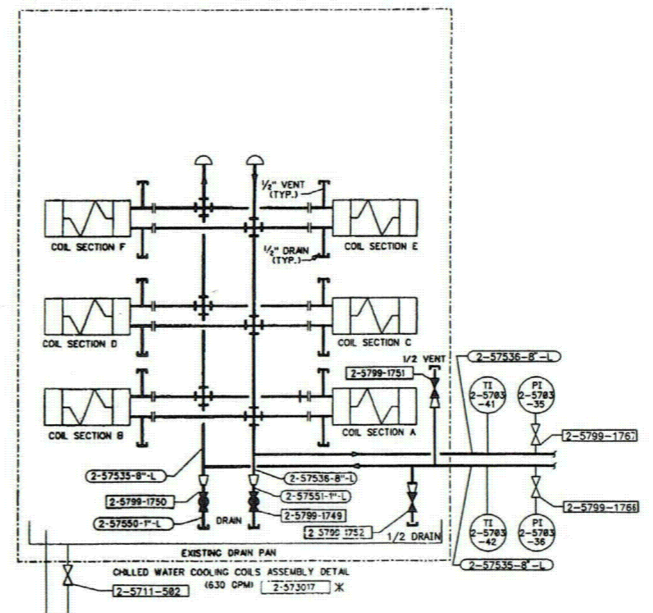
IN SCOPE COMPONENTS PER 54.4(a)(1), AND 54.4(a)(3)
 OUT OF SCOPE COMPONENTS

REV.	DATE	DESCRIPTION	PREP.	REV.	APPR.
0	09/23/92	INITIAL ISSUE	RMJ	JSL	MWH

LICENSE RENEWAL BOUNDARY DIAGRAM OF PROCESS SAMPLING PART 2



DETAIL "A"
TYPICAL FOR EXPANSION TANK CONNECTIONS



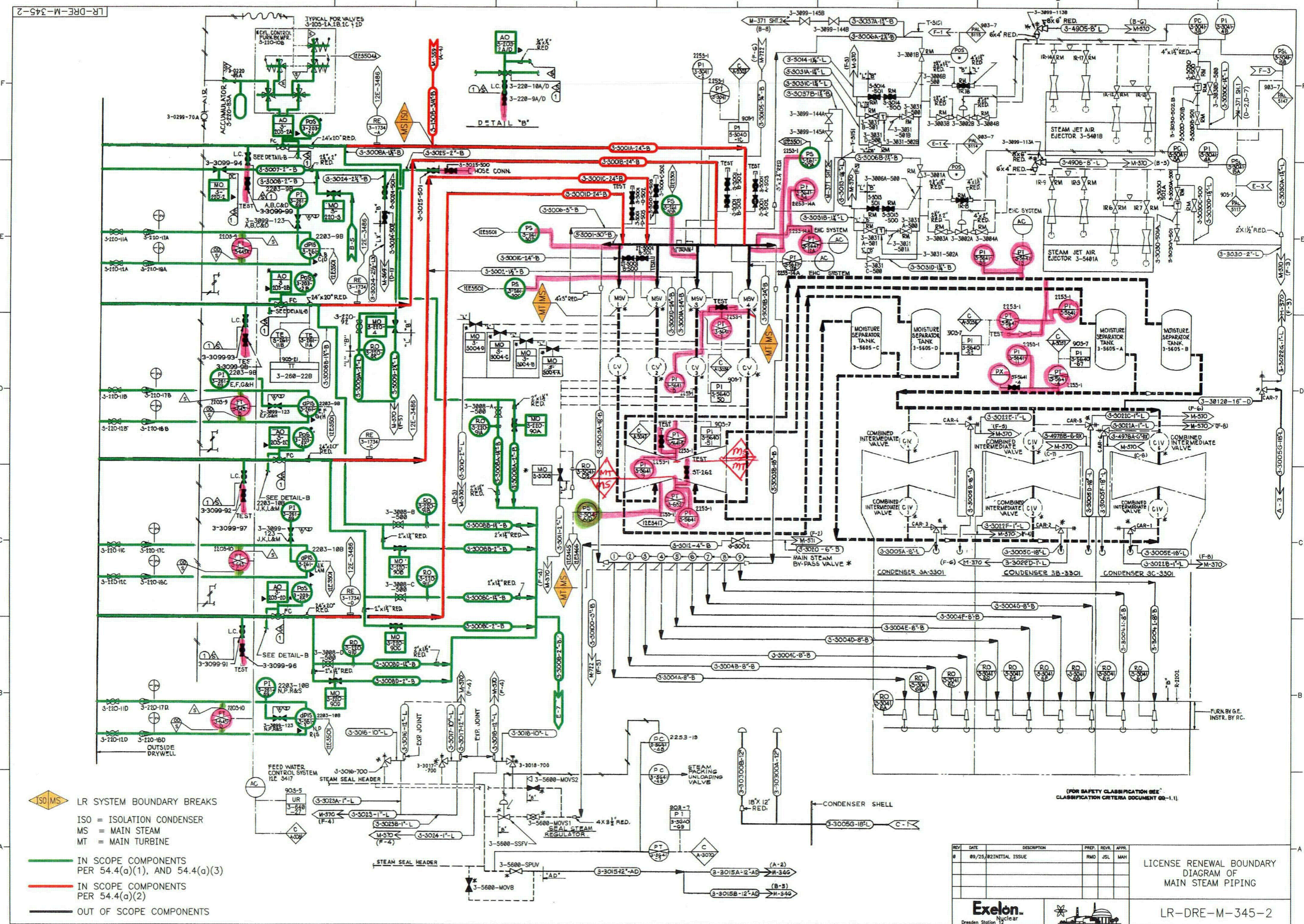
DWM LR SYSTEM BOUNDARY BREAKS
DWM = DEMIN. WATER MAKEUP
RBC = REACTOR BUILDING CHILLED WATER
RBH = REACTOR BUILDING HVAC
 ——— OUT OF SCOPE COMPONENTS

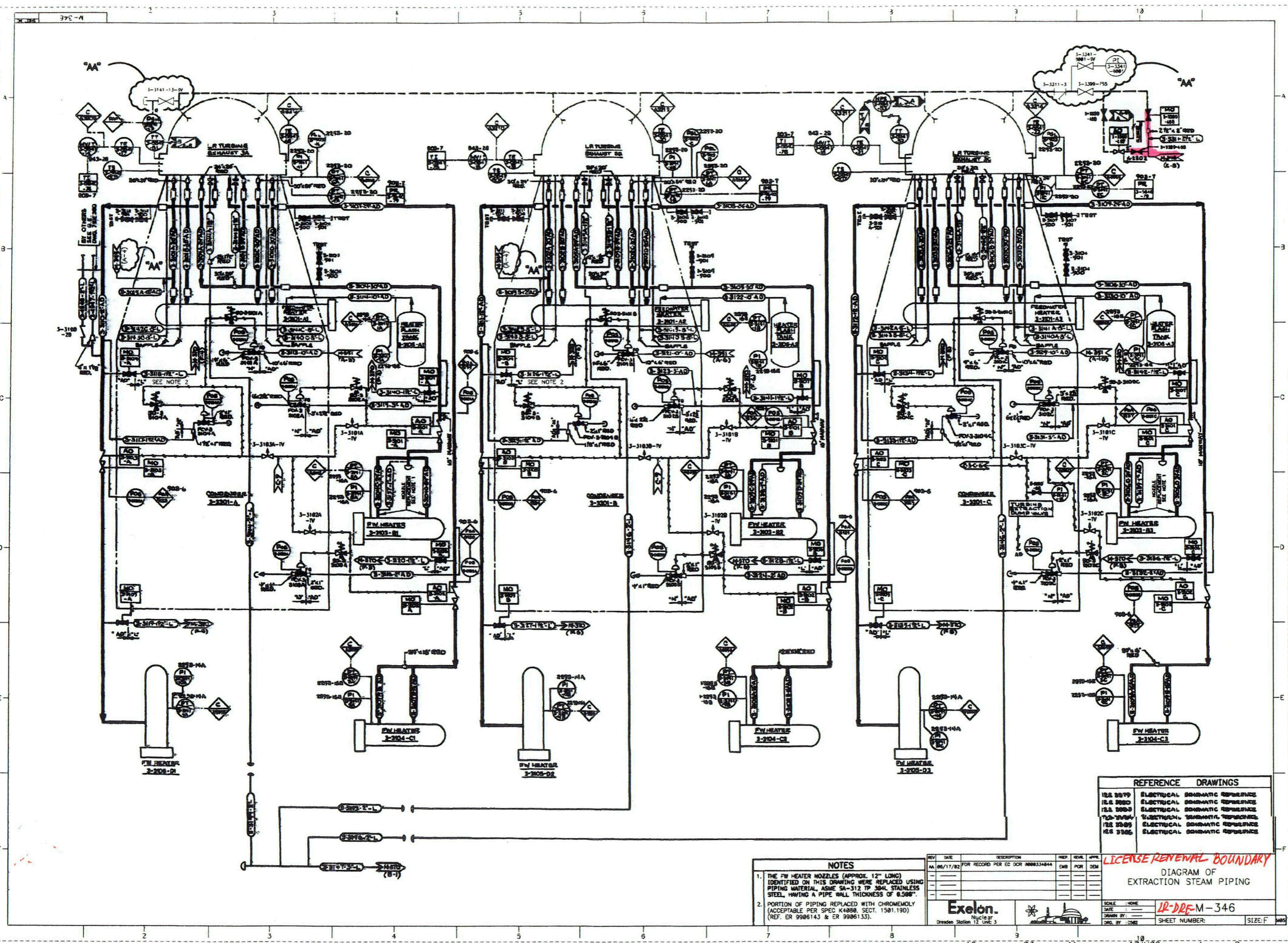
REV	DATE	DESCRIPTION	PREP.	REV.	APPR.
0	09/23/02	INITIAL ISSUE	RMD	JSL	MAH

LICENSE RENEWAL BOUNDARY
 DIAGRAM OF
 REACTOR BUILDING
 CHILLED WATER SYSTEM

Exelon Nuclear
 Dresden Station 12

LR-DRE-M-269-3





NOTES

1. THE PW HEATER NOZZLES (APPROX. 12" LONG) IDENTIFIED ON THIS DRAWING WERE REPLACED USING PIPING MATERIAL, ASTM SA-512 TP 304L STAINLESS STEEL, HAVING A PIPE WALL THICKNESS OF 0.500".
2. PORTION OF PIPING REPLACED WITH CHROMIOLLOY (ACCEPTABLE PER SPEC K4000, SECT. 1501.19D) (REF. ER 9906143 & ER 9906133).

REV	DATE	DESCRIPTION	REP	REV	APP
AA	05/17/82	FOR RECORD PER EC DCR 900834844	EMB	FOR	DEM

REFERENCE DRAWINGS

ISE 0079	ELECTRICAL SCHEMATIC REFERENCE
ISE 0080	ELECTRICAL SCHEMATIC REFERENCE
ISE 0083	ELECTRICAL SCHEMATIC REFERENCE
ISE 0084	ELECTRICAL SCHEMATIC REFERENCE
ISE 0085	ELECTRICAL SCHEMATIC REFERENCE
ISE 0086	ELECTRICAL SCHEMATIC REFERENCE

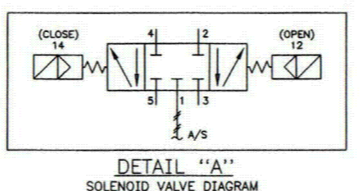
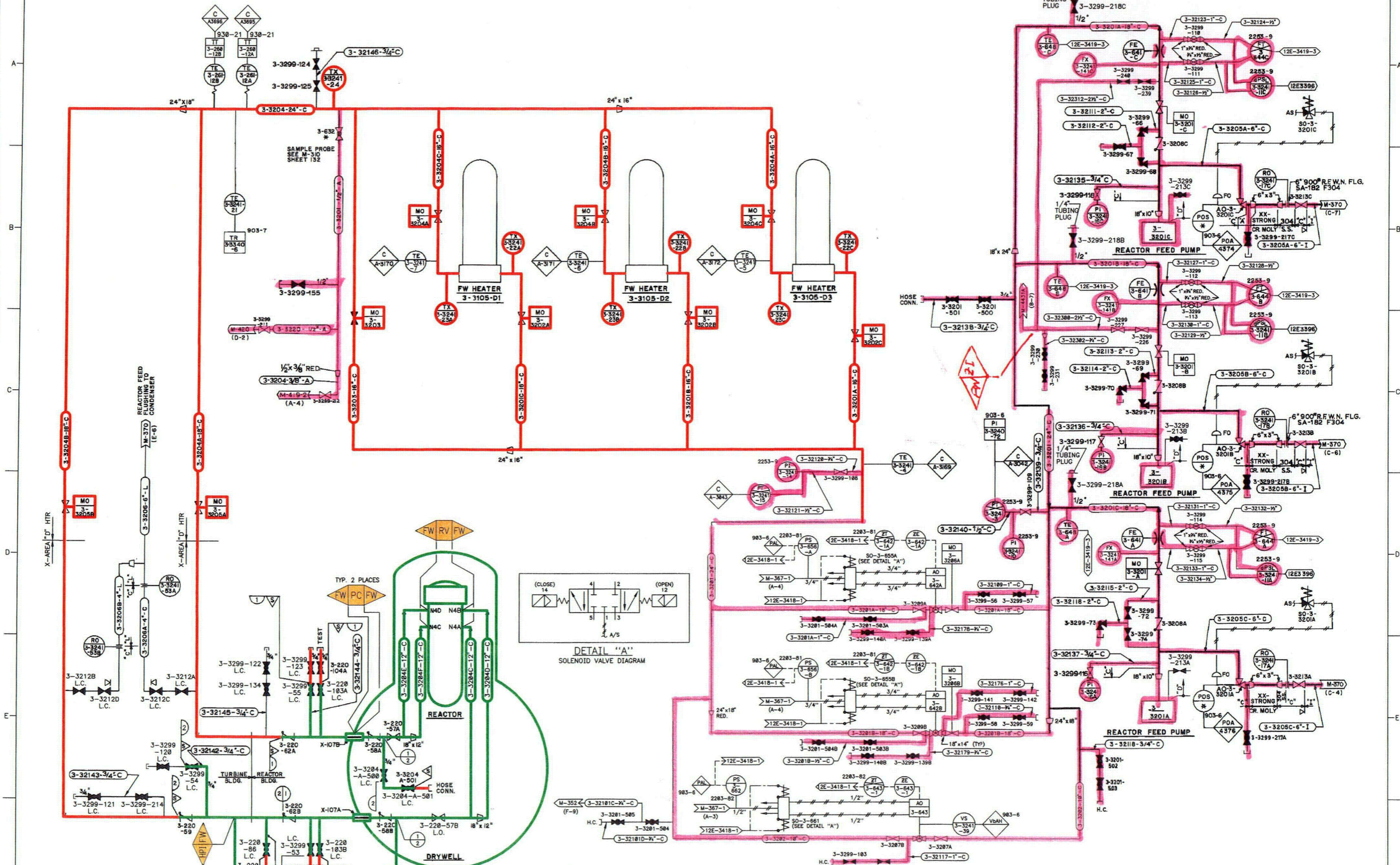
LICENSE RENEWAL BOUNDARY

DIAGRAM OF
EXTRACTION STEAM PIPING

SCALE: NONE
DATE: 05/17/82
DRAWN BY: [Signature]
SHEET NUMBER: 12 OF 17
SIZE: F

Exelon
Nuclear
Dresden Station Unit 3

12-DRF-M-346



LR SYSTEM BOUNDARY BREAKS
 ZI = ZINC INJECTION

RV = REACTOR VESSEL
 FW = FEEDWATER
 HPI = HIGH PRESSURE COOLANT INJECTION
 RWC = REACTOR WATER CLEANUP
 PC = CONTAINMENT ISOLATION COMPONENTS AND PRIMARY CONTAINMENT PIPING

FW REGULATING STATION

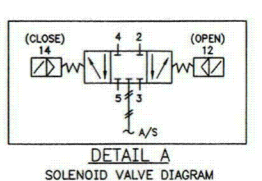
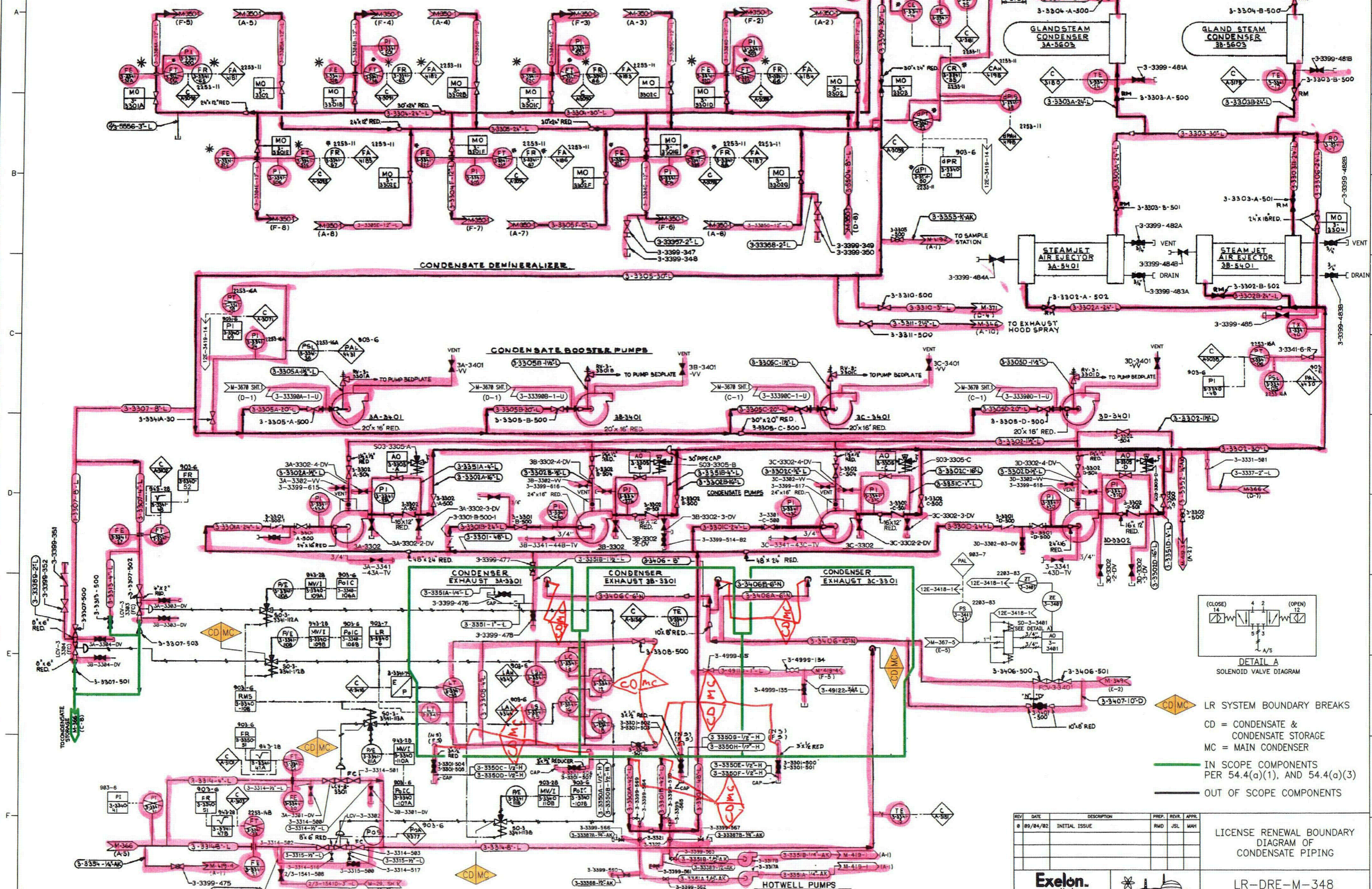
IN SCOPE COMPONENTS PER 54.4(a)(1), AND 54.4(a)(3)
 IN SCOPE COMPONENTS PER 54.4(a)(2)
 OUT OF SCOPE COMPONENTS

REV	DATE	DESCRIPTION	PREP	REV	APPR
0	10/23/82	INITIAL ISSUE			

LICENSE RENEWAL BOUNDARY DIAGRAM OF REACTOR FEED PUMP

Exelon Nuclear
 Dresden Station

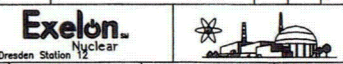
LR-DRE-M-347

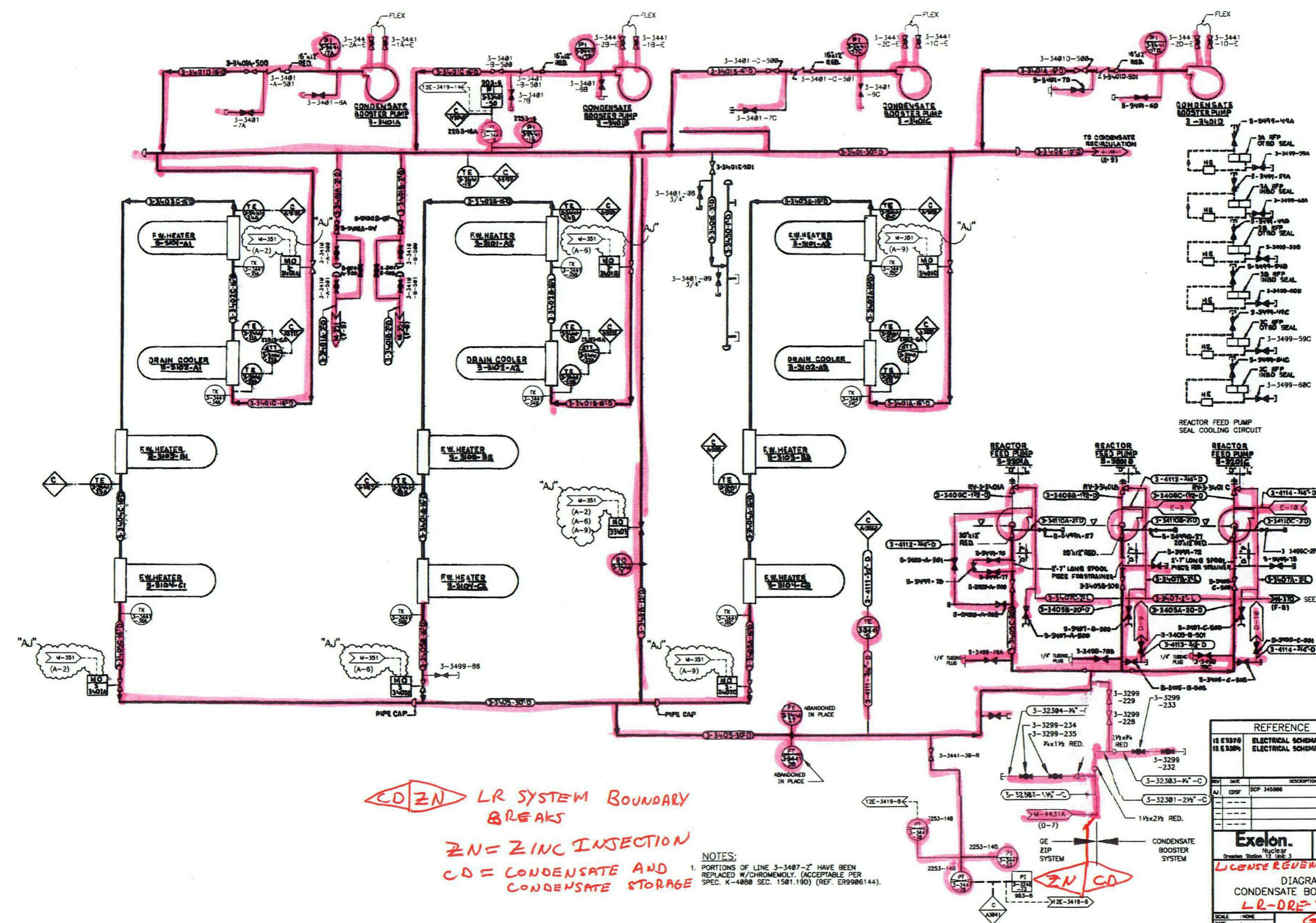


◇ CD/MC LR SYSTEM BOUNDARY BREAKS
 CD = CONDENSATE & CONDENSATE STORAGE
 MC = MAIN CONDENSER
— IN SCOPE COMPONENTS PER 54.4(a)(1), AND 54.4(a)(3)
— OUT OF SCOPE COMPONENTS

REV	DATE	DESCRIPTION	PREP.	REV.	APPR.
0	09/04/02	INITIAL ISSUE	RMD	JSL	MAH

LICENSE RENEWAL BOUNDARY DIAGRAM OF CONDENSATE PIPING





CD ZN LR SYSTEM BOUNDARY
 BREAKS
 ZN = ZINC INJECTION
 CD = CONDENSATE AND
 CONDENSATE STORAGE

NOTES:
 1. PORTIONS OF LINE 3-3407-2" HAVE BEEN
 REPLACED W/CHROMEMOLY. (ACCEPTABLE PER
 SPEC. K-4888 SEC. 1581.190) (REF. ER9906144).

REFERENCE DRAWINGS				
18 E 3370	EDSF	ELECTRICAL SCHEMATIC		
18 E 3384	EDSF	ELECTRICAL SCHEMATIC		

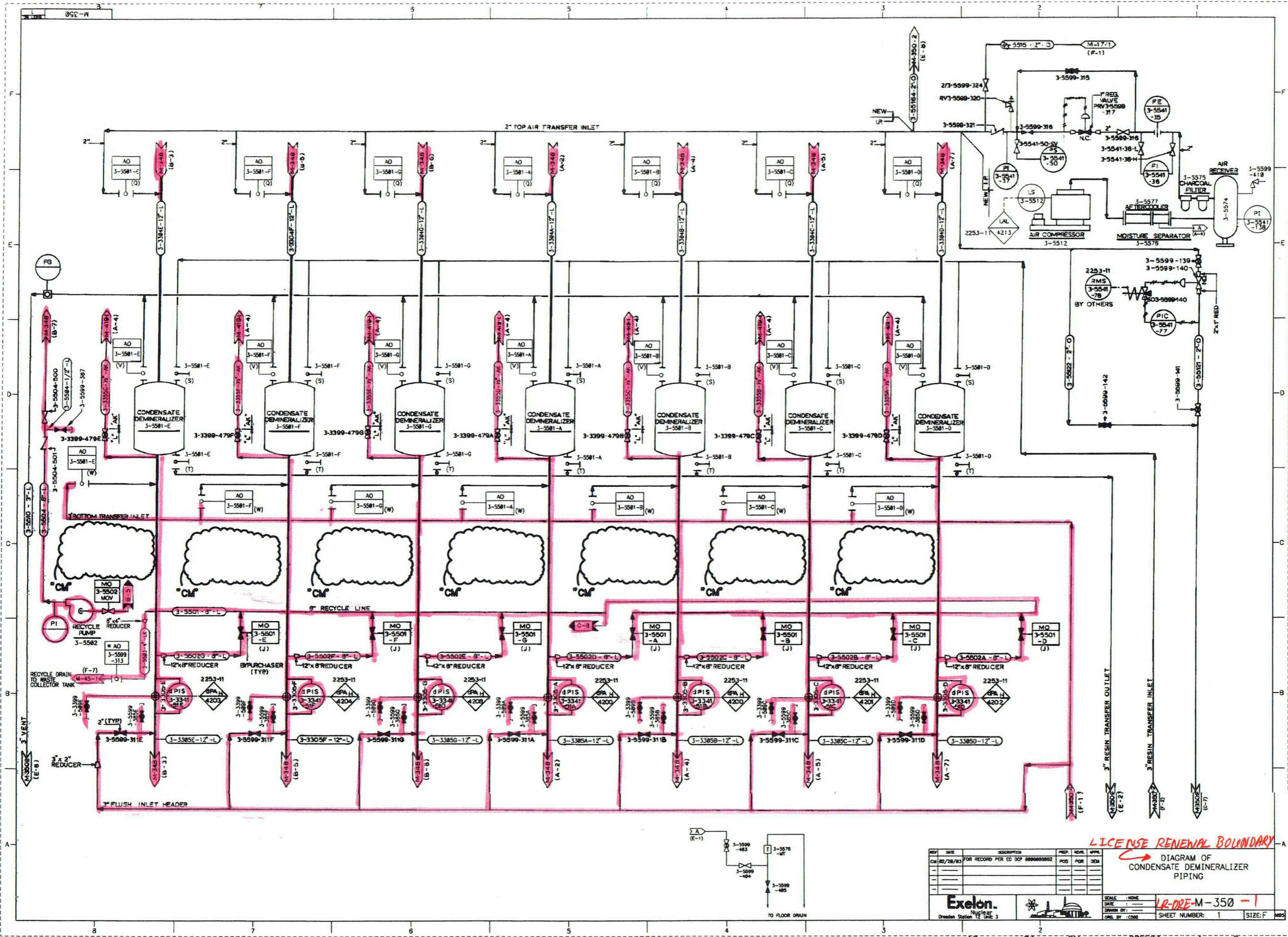
REV	DATE	DESCRIPTION	PREP	REVL	APPL
AJ	EDSF	DCP 345986	EDSF	EDSF	EDSF
---	---	---	---	---	---
---	---	---	---	---	---

Exelon
 Nuclear
 License Renewal Boundary

DIAGRAM OF
 CONDENSATE BOOSTER PIPING
 LR-DR-2

SCALE: NONE
 DATE: ---
 DRAWN BY: ---
 DESIGNED BY: ---

GM-349
 SHEET NUMBER: --- SIZE: F

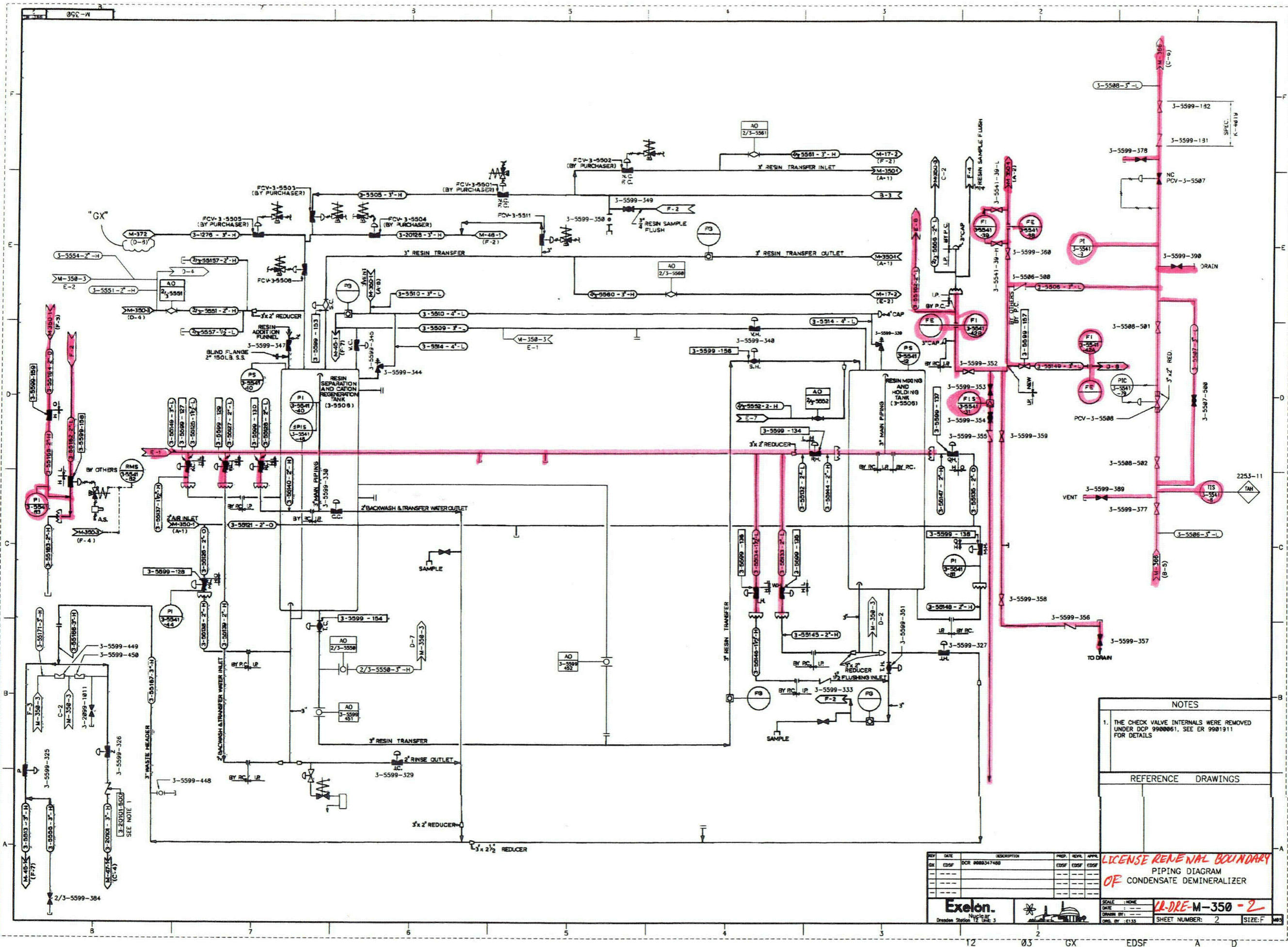


LICENSE RENEWAL BOUNDARY

DIAGRAM OF
CONDENSATE DEMINERALIZER
PIPING

REV	DATE	DESCRIPTION	PREP	REV	APPR
CM	02/26/83	FOR RECORD PER EC DCP 000000002			

Exelon Dresden Station, Unit 3	SCALE: NONE DATE: _____ DRAWN BY: _____ CHK BY: CM02	LR-DRE-M-350-1 SHEET NUMBER: 1 SIZE: F
--	---	---



NOTES
 1. THE CHECK VALVE INTERNALS WERE REMOVED UNDER DCP 9900061. SEE ER 9901911 FOR DETAILS

REFERENCE DRAWINGS

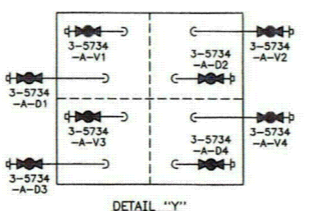
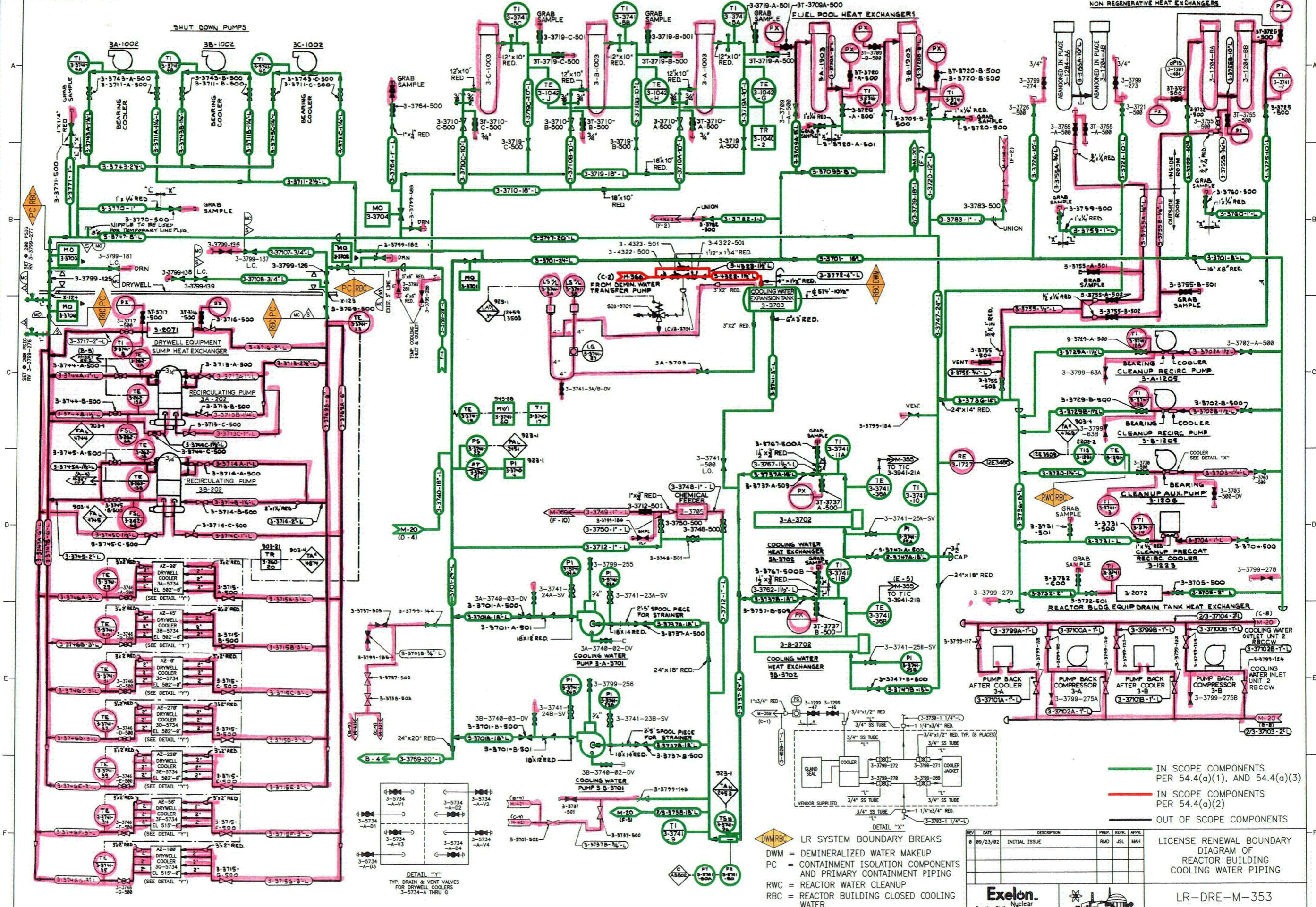
LICENSE RENEWAL BOUNDARY
 PIPING DIAGRAM
 OF CONDENSATE DEMINERALIZER

REV	DATE	DESCRIPTION	PREP.	REVL.	APPR.
001	DCR 0002347400		EDSF	EDSF	EDSF
---	---		---	---	---
---	---		---	---	---
---	---		---	---	---

Exelon
 Dresden Station, Unit 3

SCALE: NONE
 DATE: ---
 DRAWING BY: ---
 ORG. BY: E133
 SHEET NUMBER: 2
 SIZE: F

12-03-GX-EDSF-A-D
 2253-11
 TIS-3541
 3-5508-501
 3-5508-502
 3-5508-503
 3-5508-504
 3-5508-505
 3-5508-506
 3-5508-507
 3-5508-508
 3-5508-509
 3-5508-510
 3-5508-511
 3-5508-512
 3-5508-513
 3-5508-514
 3-5508-515
 3-5508-516
 3-5508-517
 3-5508-518
 3-5508-519
 3-5508-520
 3-5508-521
 3-5508-522
 3-5508-523
 3-5508-524
 3-5508-525
 3-5508-526
 3-5508-527
 3-5508-528
 3-5508-529
 3-5508-530
 3-5508-531
 3-5508-532
 3-5508-533
 3-5508-534
 3-5508-535
 3-5508-536
 3-5508-537
 3-5508-538
 3-5508-539
 3-5508-540
 3-5508-541
 3-5508-542
 3-5508-543
 3-5508-544
 3-5508-545
 3-5508-546
 3-5508-547
 3-5508-548
 3-5508-549
 3-5508-550
 3-5508-551
 3-5508-552
 3-5508-553
 3-5508-554
 3-5508-555
 3-5508-556
 3-5508-557
 3-5508-558
 3-5508-559
 3-5508-560
 3-5508-561
 3-5508-562
 3-5508-563
 3-5508-564
 3-5508-565
 3-5508-566
 3-5508-567
 3-5508-568
 3-5508-569
 3-5508-570
 3-5508-571
 3-5508-572
 3-5508-573
 3-5508-574
 3-5508-575
 3-5508-576
 3-5508-577
 3-5508-578
 3-5508-579
 3-5508-580
 3-5508-581
 3-5508-582
 3-5508-583
 3-5508-584
 3-5508-585
 3-5508-586
 3-5508-587
 3-5508-588
 3-5508-589
 3-5508-590
 3-5508-591
 3-5508-592
 3-5508-593
 3-5508-594
 3-5508-595
 3-5508-596
 3-5508-597
 3-5508-598
 3-5508-599
 3-5508-600
 3-5508-601
 3-5508-602
 3-5508-603
 3-5508-604
 3-5508-605
 3-5508-606
 3-5508-607
 3-5508-608
 3-5508-609
 3-5508-610
 3-5508-611
 3-5508-612
 3-5508-613
 3-5508-614
 3-5508-615
 3-5508-616
 3-5508-617
 3-5508-618
 3-5508-619
 3-5508-620
 3-5508-621
 3-5508-622
 3-5508-623
 3-5508-624
 3-5508-625
 3-5508-626
 3-5508-627
 3-5508-628
 3-5508-629
 3-5508-630
 3-5508-631
 3-5508-632
 3-5508-633
 3-5508-634
 3-5508-635
 3-5508-636
 3-5508-637
 3-5508-638
 3-5508-639
 3-5508-640
 3-5508-641
 3-5508-642
 3-5508-643
 3-5508-644
 3-5508-645
 3-5508-646
 3-5508-647
 3-5508-648
 3-5508-649
 3-5508-650
 3-5508-651
 3-5508-652
 3-5508-653
 3-5508-654
 3-5508-655
 3-5508-656
 3-5508-657
 3-5508-658
 3-5508-659
 3-5508-660
 3-5508-661
 3-5508-662
 3-5508-663
 3-5508-664
 3-5508-665
 3-5508-666
 3-5508-667
 3-5508-668
 3-5508-669
 3-5508-670
 3-5508-671
 3-5508-672
 3-5508-673
 3-5508-674
 3-5508-675
 3-5508-676
 3-5508-677
 3-5508-678
 3-5508-679
 3-5508-680
 3-5508-681
 3-5508-682
 3-5508-683
 3-5508-684
 3-5508-685
 3-5508-686
 3-5508-687
 3-5508-688
 3-5508-689
 3-5508-690
 3-5508-691
 3-5508-692
 3-5508-693
 3-5508-694
 3-5508-695
 3-5508-696
 3-5508-697
 3-5508-698
 3-5508-699
 3-5508-700



DWM/RBC LR SYSTEM BOUNDARY BREAKS
 DWM = DEMINERALIZED WATER MAKEUP
 PC = CONTAINMENT ISOLATION COMPONENTS AND PRIMARY CONTAINMENT PIPING
 RWC = REACTOR WATER CLEANUP
 RBC = REACTOR BUILDING CLOSED COOLING WATER

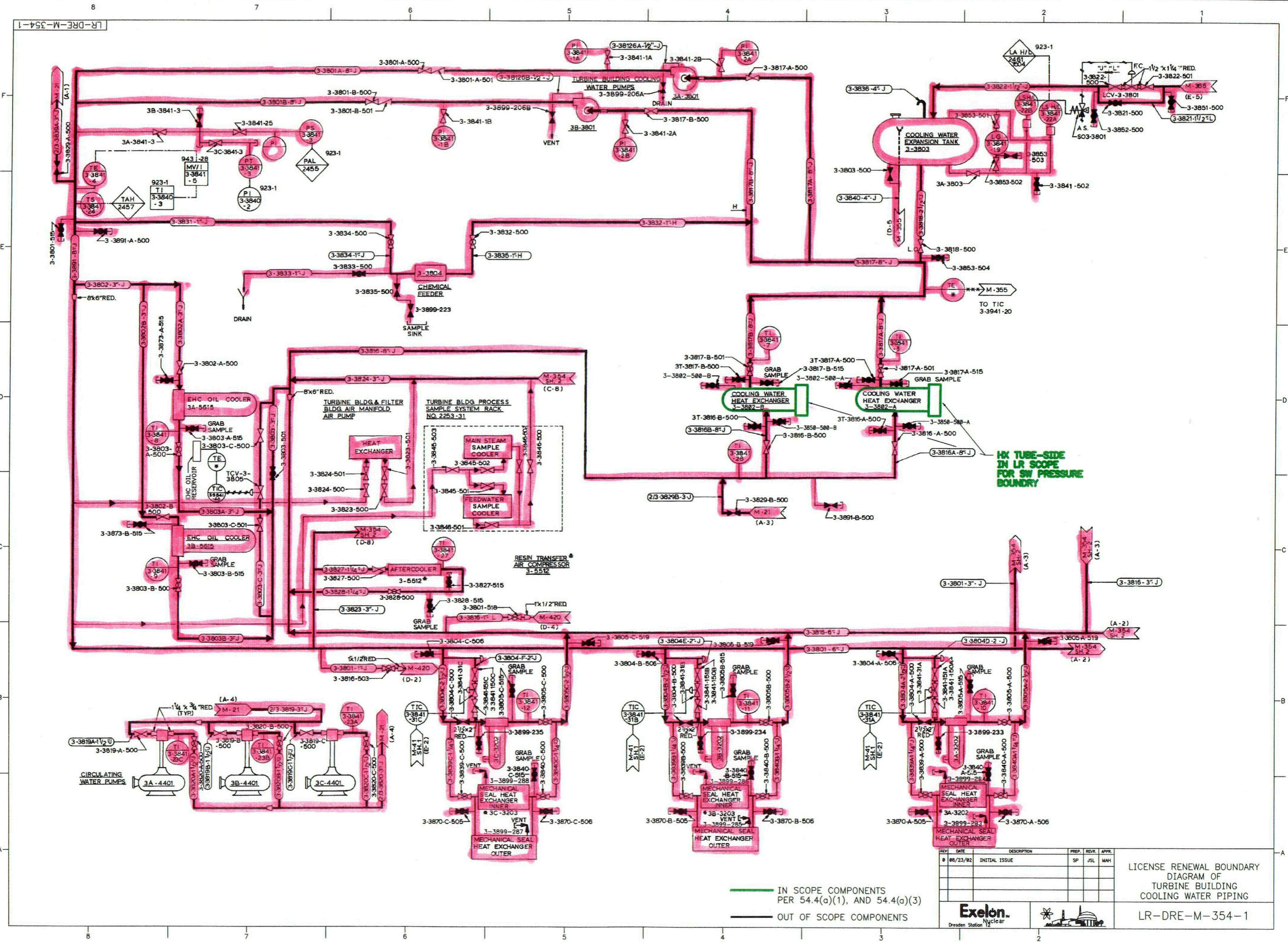
— IN SCOPE COMPONENTS PER 54.4(a)(1), AND 54.4(a)(3)
 — IN SCOPE COMPONENTS PER 54.4(a)(2)
 — OUT OF SCOPE COMPONENTS

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

LICENSE RENEWAL BOUNDARY DIAGRAM OF REACTOR BUILDING COOLING WATER PIPING

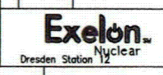
Exelon Nuclear
Dresden Station

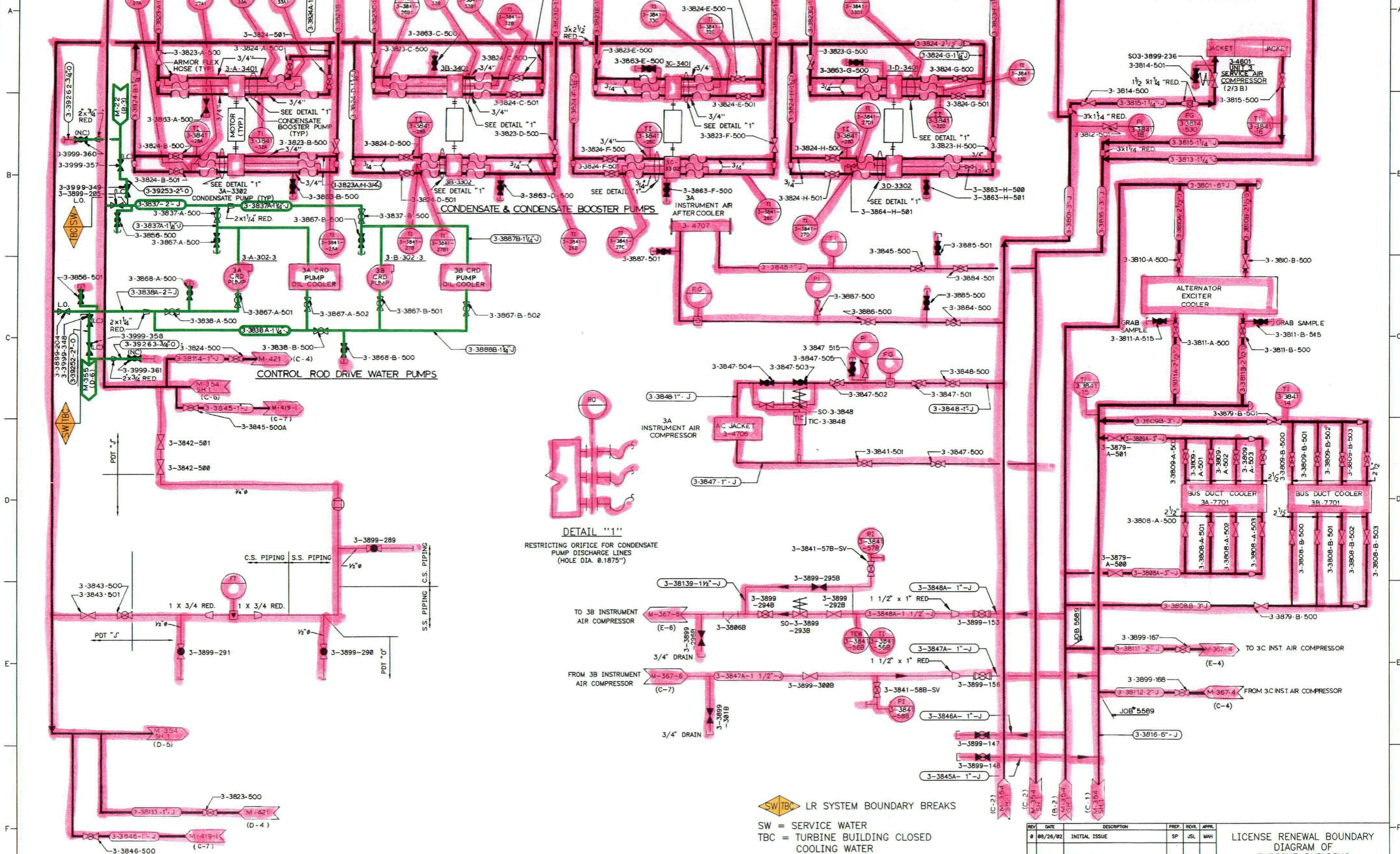
LR-DRE-M-353



REV	DATE	DESCRIPTION	PREP	REV	APPR
0	06/23/02	INITIAL ISSUE	SP	JSL	MAH

LICENSE RENEWAL BOUNDARY
 DIAGRAM OF
 TURBINE BUILDING
 COOLING WATER PIPING
 LR-DRE-M-354-1



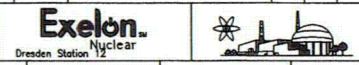


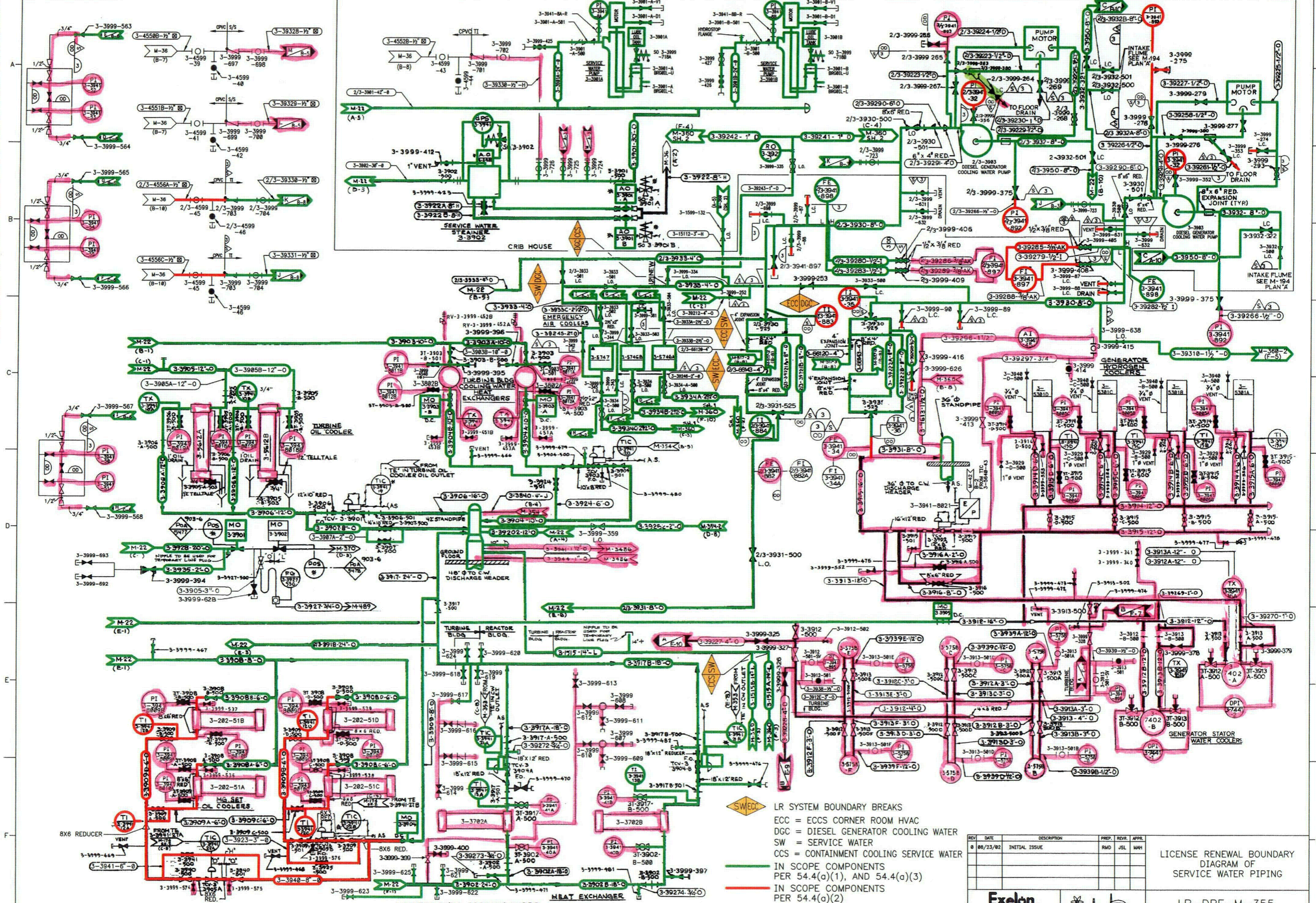
DETAIL "1"
 RESTRICTING ORIFICE FOR CONDENSATE PUMP DISCHARGE LINES (HOLE DIA. 0.1875")

— LR SYSTEM BOUNDARY BREAKS
— SW = SERVICE WATER
— TBC = TURBINE BUILDING CLOSED COOLING WATER
— IN SCOPE COMPONENTS PER 54.4(a)(1), AND 54.4(a)(3)
— OUT OF SCOPE COMPONENTS

REV	DATE	DESCRIPTION	PREP.	REVL.	APPR.
0	08/26/02	INITIAL ISSUE	SP	JSL	MAH

LICENSE RENEWAL BOUNDARY DIAGRAM OF TURBINE BUILDING COOLING WATER PIPING

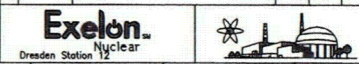


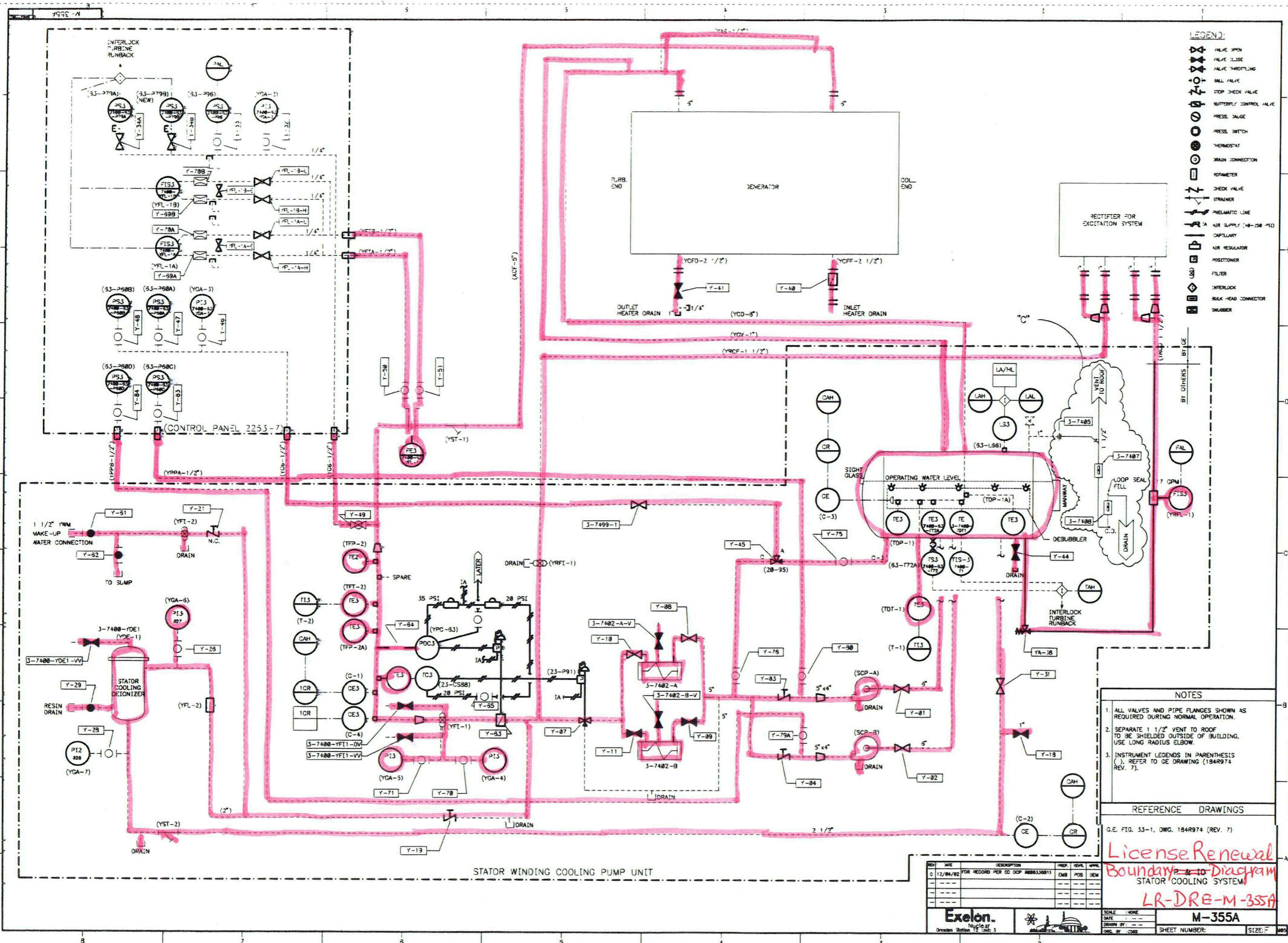


LR SYSTEM BOUNDARY BREAKS
 ECC = ECCS CORNER ROOM HVAC
 DGC = DIESEL GENERATOR COOLING WATER
 SW = SERVICE WATER
 CCS = CONTAINMENT COOLING SERVICE WATER
 IN SCOPE COMPONENTS
 PER 54.4(a)(1), AND 54.4(a)(3)
 IN SCOPE COMPONENTS
 PER 54.4(a)(2)
 OUT OF SCOPE COMPONENTS

REV	DATE	DESCRIPTION	PREP	REV	APPR
08	08/23/02	INITIAL ISSUE			

LICENSE RENEWAL BOUNDARY
 DIAGRAM OF
 SERVICE WATER PIPING





- LEGEND:**
- VALVE OPEN
 - VALVE CLOSE
 - VALVE THROTTLING
 - BALL VALVE
 - STOP CHECK VALVE
 - BUTTERFLY CONTROL VALVE
 - PRESS. GAUGE
 - PRESS. SWITCH
 - THERMOSTAT
 - DRAIN CONNECTION
 - ROTAMETER
 - CHECK VALVE
 - STRAINER
 - PNEUMATIC LINE
 - AIR SUPPLY (48-250 PSI)
 - CAPILLARY
 - AIR REGULATOR
 - POSITIONER
 - FILTER
 - INTERLOCK
 - BULK HEAD CONNECTOR
 - SNUBBER

- NOTES**
- ALL VALVES AND PIPE FLANGES SHOWN AS REQUIRED DURING NORMAL OPERATION.
 - SEPARATE 1 1/2" VENT TO ROOF TO BE SHIELDED OUTSIDE OF BUILDING. USE LONG RADIUS ELBOW.
 - INSTRUMENT LEGENDS IN PARENTHESES (), REFER TO GE DRAWING (184R974 REV. 7).

REFERENCE DRAWINGS
G.E. FIG. 33-1, DWG. 184R974 (REV. 7)

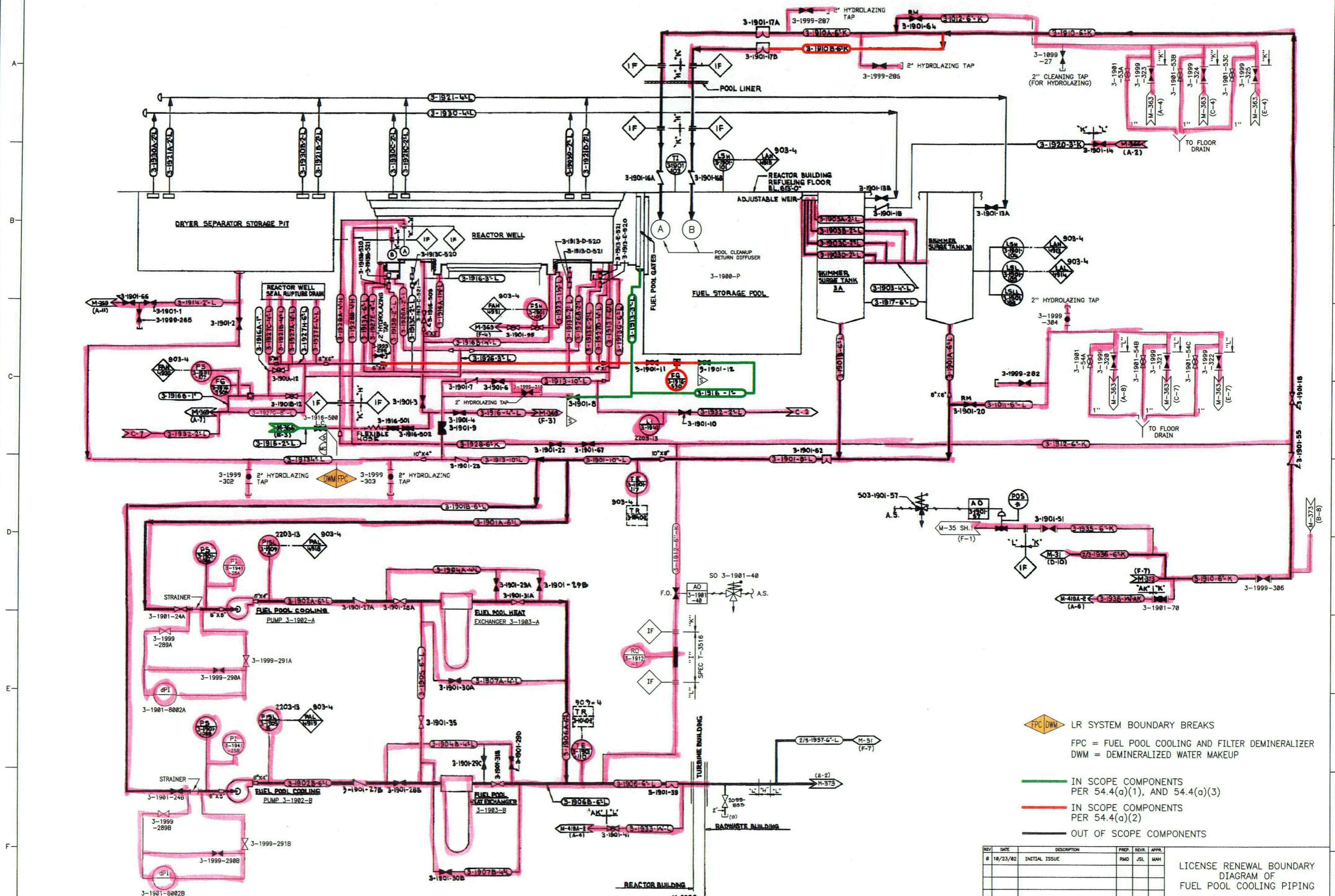
License Renewal
Boundary to Diagram
LR-DRE-M-355A

M-355A
SHEET NUMBER: **M-355A**
SIZE: **F**

REV.	DATE	DESCRIPTION	PREP.	CHKD.	APPR.
0	12/04/02	FOR RECORD PER EC DCP #000330011	EMB	POS	DEM

Exelon
Nuclear
Dresden Station Unit 3

SCALE: NONE
DATE: _____
DRAWN BY: _____
CHKD. BY: _____

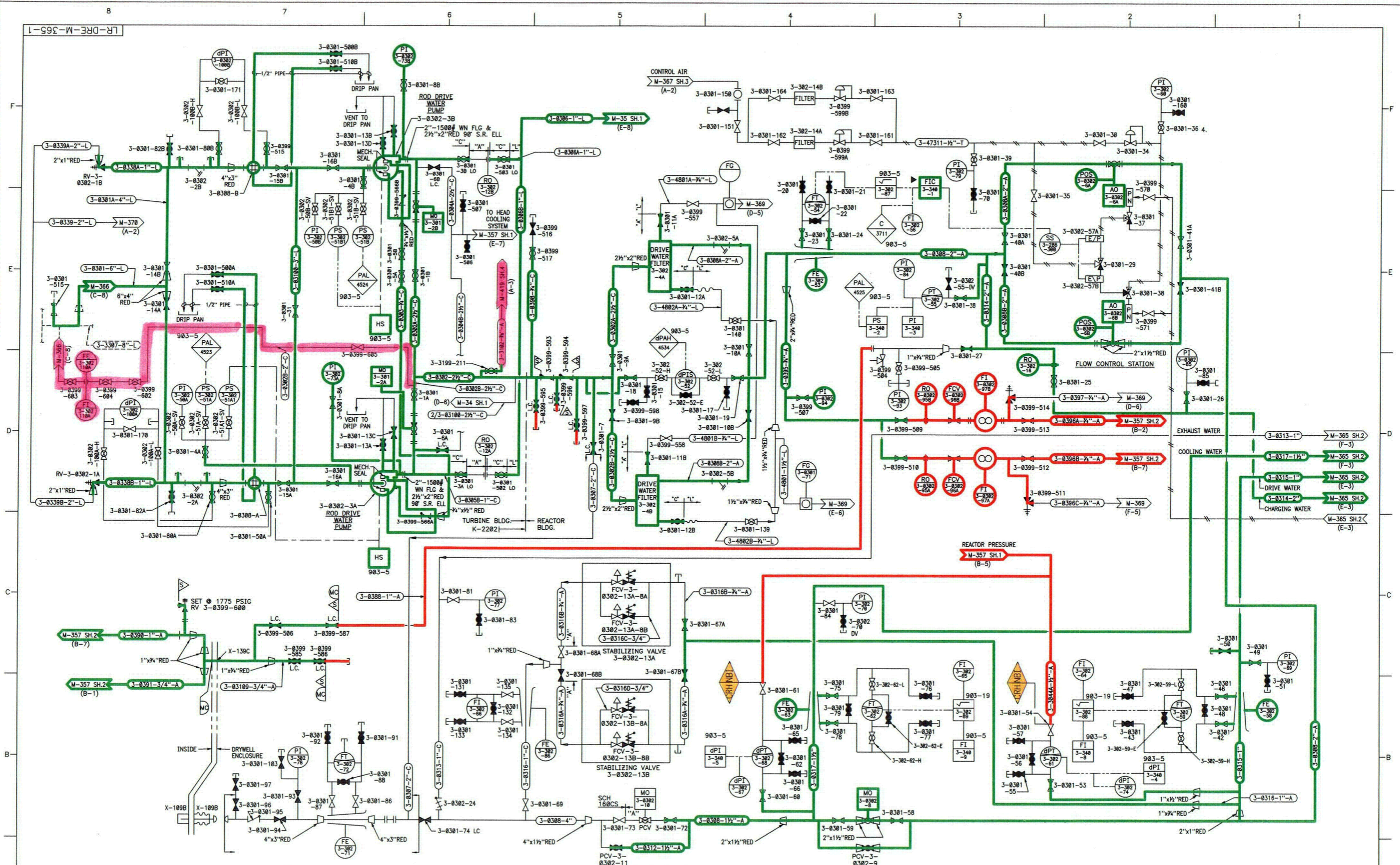


- LR SYSTEM BOUNDARY BREAKS
FPC = FUEL POOL COOLING AND FILTER DEMINERALIZER
DWM = DEMINERALIZED WATER MAKEUP
- IN SCOPE COMPONENTS
PER 54.4(a)(1), AND 54.4(a)(3)
- IN SCOPE COMPONENTS
PER 54.4(a)(2)
- OUT OF SCOPE COMPONENTS

REV	DATE	DESCRIPTION	PREP.	REVR.	APPR.
0	10/23/92	INITIAL ISSUE	RMD	JSL	MAH

LICENSE RENEWAL BOUNDARY
DIAGRAM OF
FUEL POOL COOLING PIPING





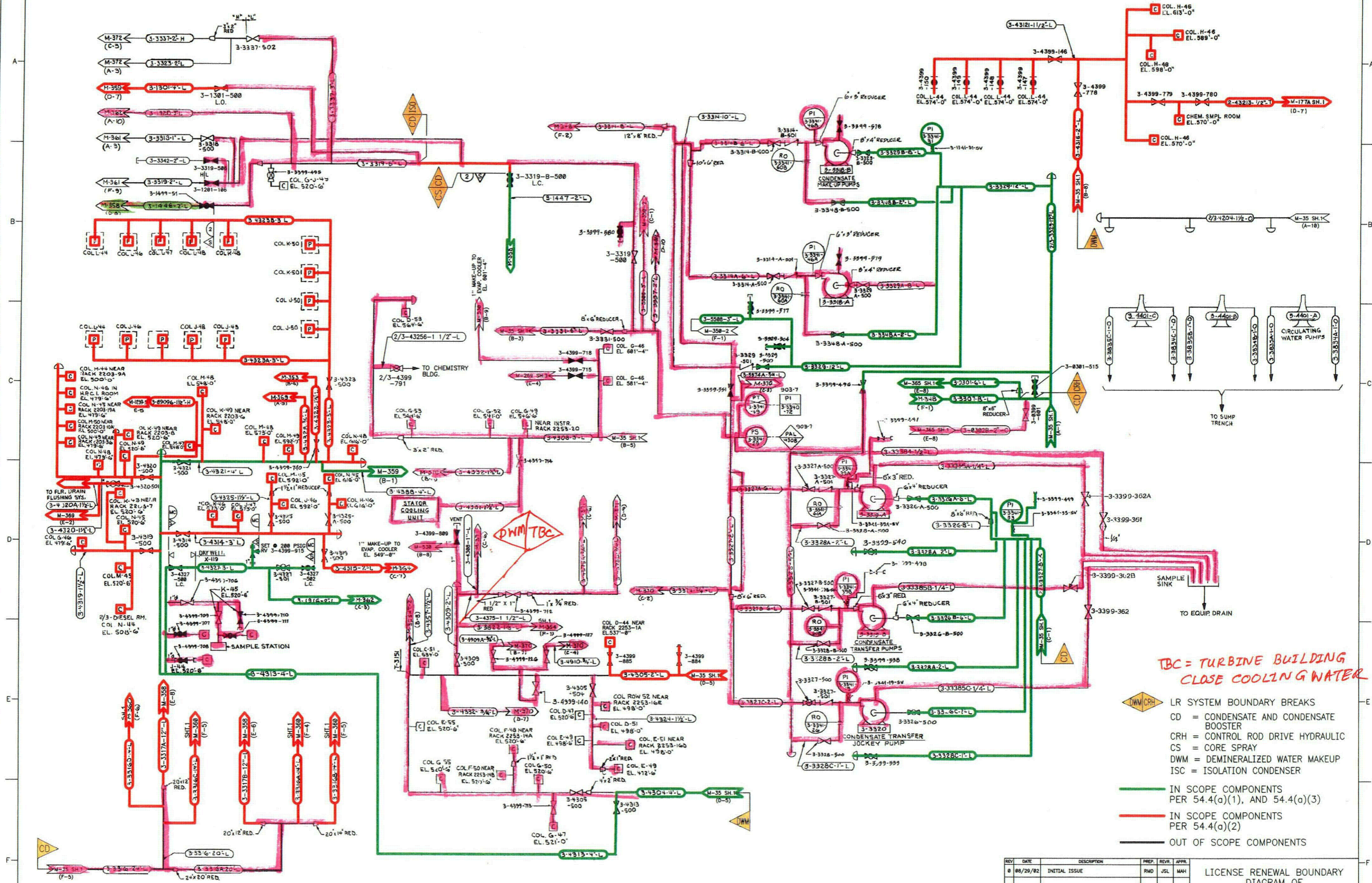
- LEGEND**
- DIAPHRAGM OPERATED WITH MANUAL OVERRIDE
 - CHECK VALVE WITH ORIFICE
 - SOLENOID OPERATED WITH BUILT-IN FLOW CONTROL
 - SCREWED CAP FOR N₂ CHARGING
 - 3-WAY SOLENOID VALVE CLOSED PORT IN OPPOSITE MODE
- LR SYSTEM BOUNDARY BREAKS**
- IN SCOPE COMPONENTS PER 54.4(a)(1), AND 54.4(a)(3)
 - IN SCOPE COMPONENTS PER 54.4(a)(2)
 - OUT OF SCOPE COMPONENTS
- CRH = CONTROL ROD DRIVE HYDRAULIC**
NBI = NUCLEAR BOILER INSTRUMENTATION

REV	DATE	DESCRIPTION	PREP.	REV.	APPR.
0	06/28/02	INITIAL ISSUE	SP	JSL	MAH

LICENSE RENEWAL BOUNDARY DIAGRAM OF CONTROL ROD DRIVE HYDRAULIC PIPING

Exelon Nuclear
Dresden Station

LR-DRE-M-365-1



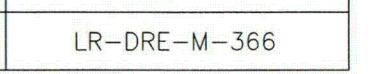
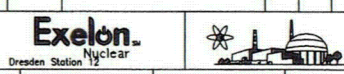
TBC = TURBINE BUILDING
CLOSE COOLING WATER

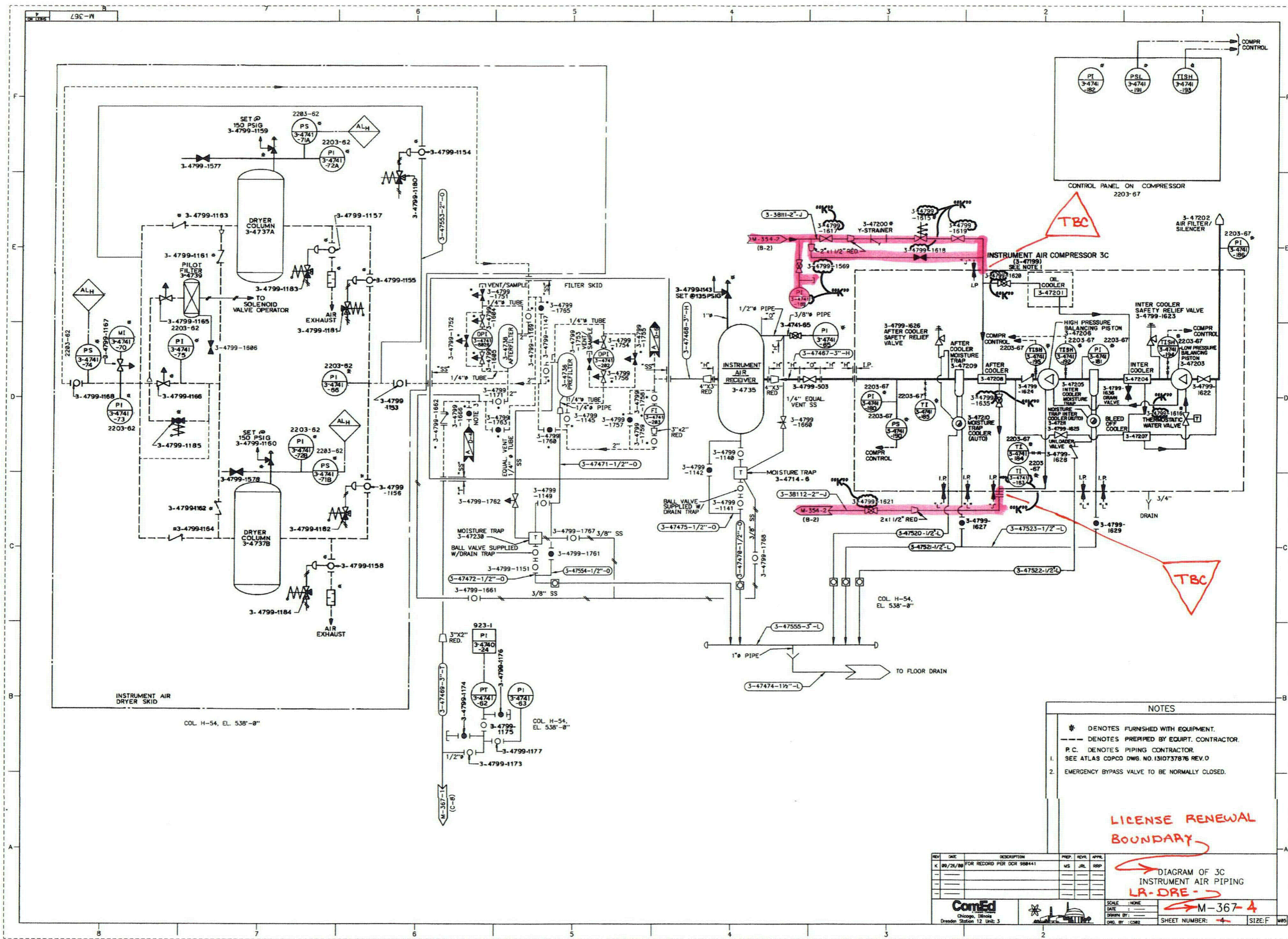
- LR SYSTEM BOUNDARY BREAKS
- CD = CONDENSATE AND CONDENSATE BOOSTER
- CRH = CONTROL ROD DRIVE HYDRAULIC
- CS = CORE SPRAY
- DWM = DEMINERALIZED WATER MAKEUP
- ISC = ISOLATION CONDENSER
- IN SCOPE COMPONENTS PER 54.4(o)(1), AND 54.4(o)(3)
- IN SCOPE COMPONENTS PER 54.4(o)(2)
- OUT OF SCOPE COMPONENTS

REV	DATE	DESCRIPTION	PREP.	REV.	APPR.
0	08/29/82	INITIAL ISSUE	RMD	JSL	MAH

LICENSE RENEWAL BOUNDARY
DIAGRAM OF
DIMINERALIZED WATER
SYSTEM PIPING

LR-DRE-M-366





NOTES

- * DENOTES FURNISHED WITH EQUIPMENT.
- DENOTES PREPARED BY EQUIPT. CONTRACTOR.
- P.C. DENOTES PIPING CONTRACTOR.
- 1. SEE ATLAS COPCO DWG. NO. 1310737876 REV. 0
- 2. EMERGENCY BYPASS VALVE TO BE NORMALLY CLOSED.

LICENSE RENEWAL BOUNDARY

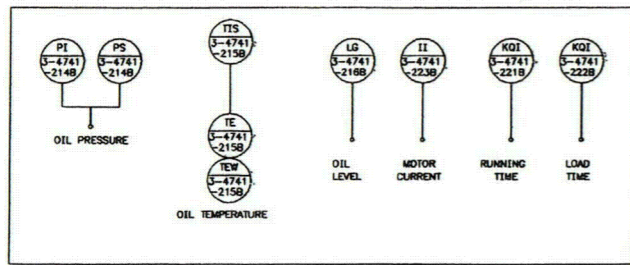
REV	DATE	DESCRIPTION	PREP.	REV.	APPR.
K	09/26/80	FOR RECORD PER DCR 988441	MS	JRL	RRP

SCALE: NONE
DATE: _____
DRAWN BY: _____
CHK. BY: _____

DIAGRAM OF 3C INSTRUMENT AIR PIPING
LA-DRE-
M-367-4

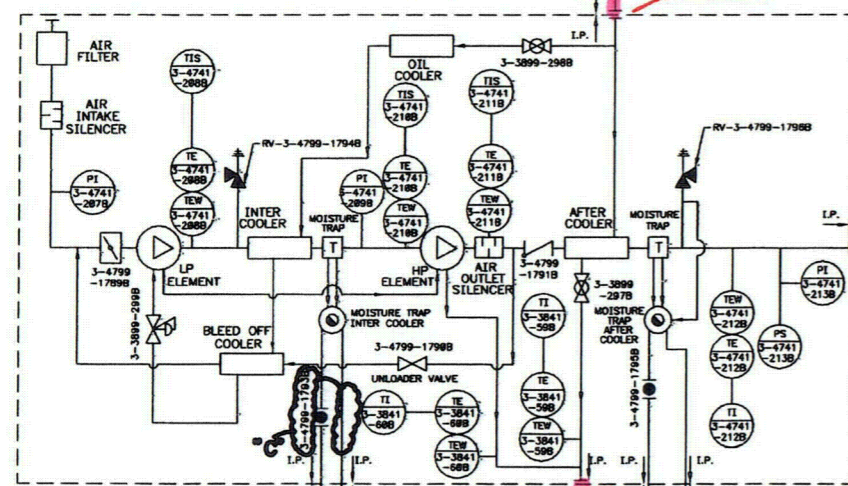
ComEd
Chicago, Illinois
Dresden Station 12 Unit 3

SHEET NUMBER: _____ SIZE: F



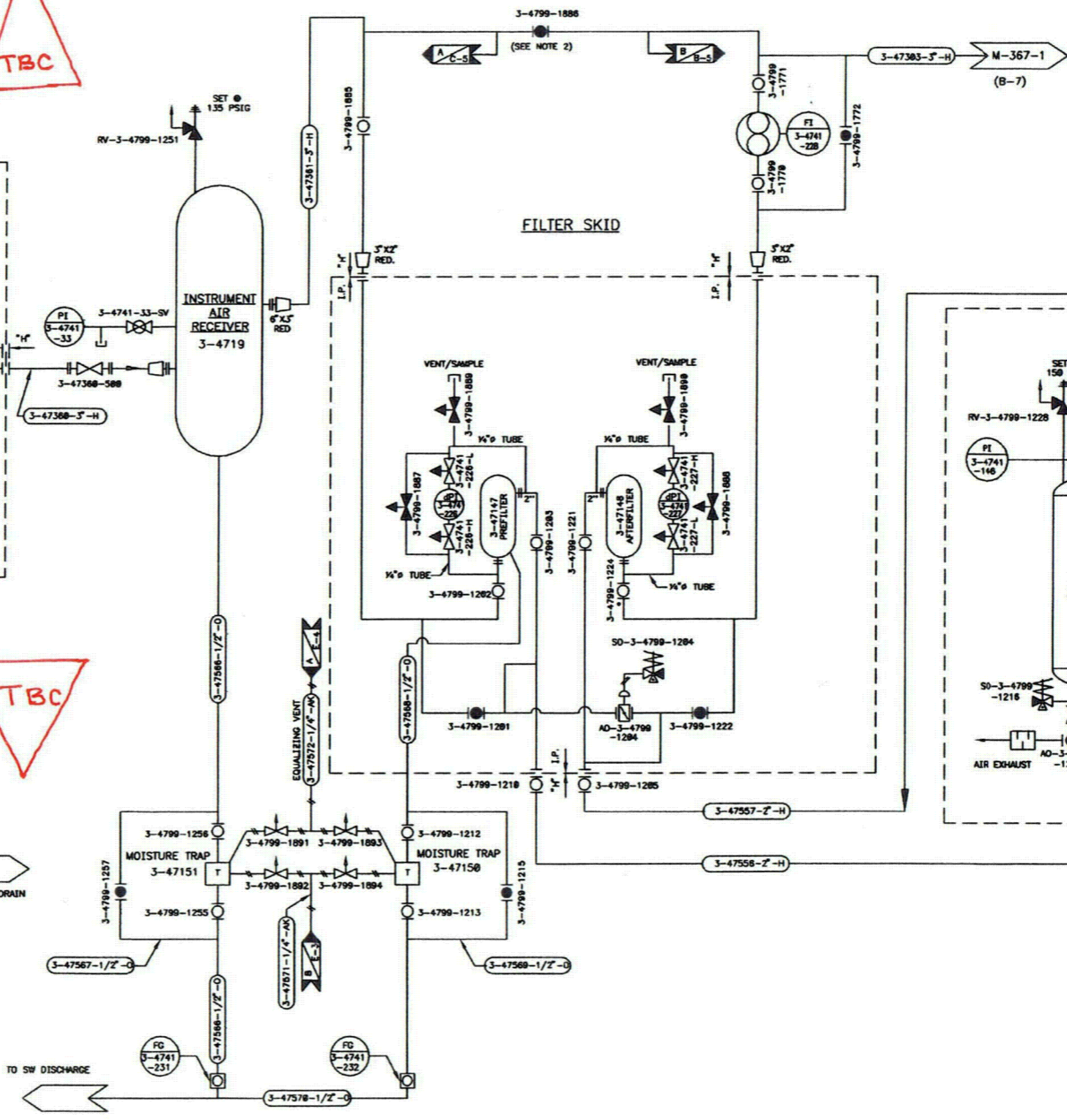
CONTROL PANEL ON COMPRESSOR
3-4715-B

3B INSTRUMENT AIR COMPRESSOR
3-4715-B
(SEE NOTE 1)

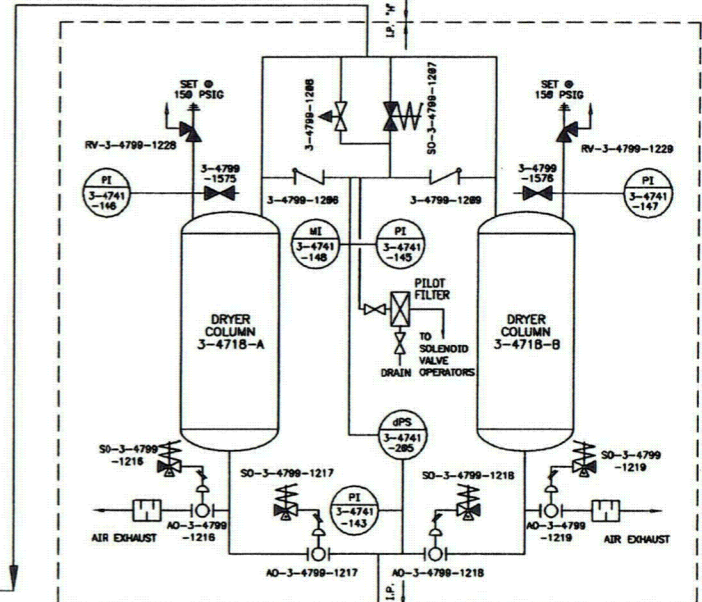


TBC

TBC



3B INSTRUMENT AIR DRYER SKID
3-4718



- NOTES
- SEE ALIAS COPCO DRAWING No.1318737878 REV. 0
 - EMERGENCY BYPASS VALVE TO BE NORMALLY CLOSED
 - DENOTES EQUIPMENT SKID BY SUPPLIER
 - I.P. PIPING BY EQUIPMENT SUPPLIER

LICENSE RENEWAL
BOUNDARY

DIAGRAM OF 3B
INSTRUMENT AIR PIPING
LR-DAE-

M-367-6

REV	DATE	DESCRIPTION	PREP.	REV.	APPR.
C	01/18/83	FOR RECORD PER EC DCR 8880336608	POS	JRL	DEM

Exelon Nuclear
Division Station 3, Unit 3

SCALE: NONE
DATE: _____
DRAWN BY: _____
CHK. BY: (CSD)

SHEET NUMBER: 6 SIZE: F