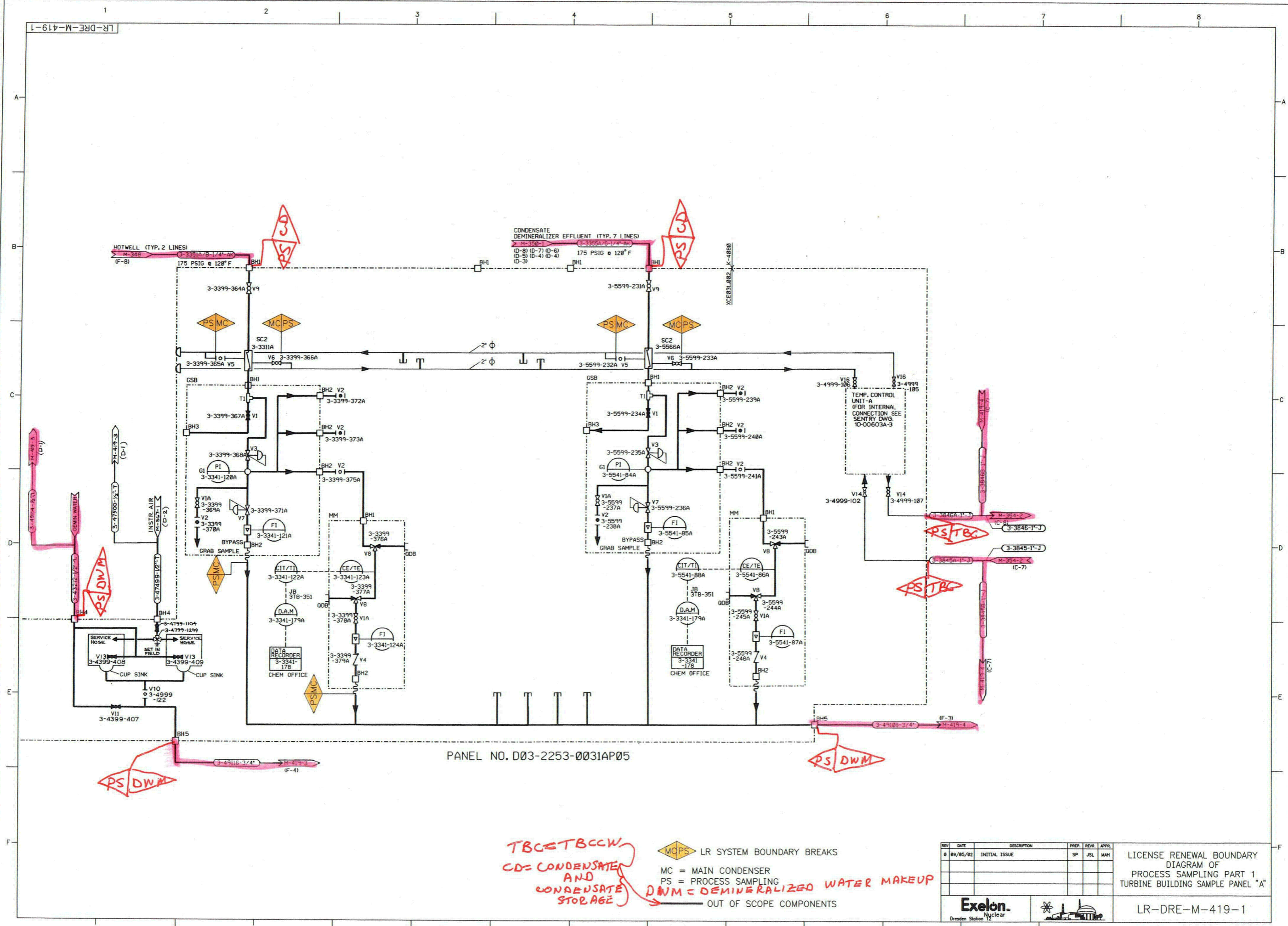


LR SYSTEM BOUNDARY BREAKS
 MC = MAIN CONDENSER
 CO = OFF GAS CONDENSATE AND CONDENSATE STORAGE
 OUT OF SCOPE COMPONENTS

LICENSE RENEWAL BOUNDARY DIAGRAM OF OFF-GAS PIPING

REV	DATE	DESCRIPTION	PREP.	REV.	APPR.
0	09/05/02	INITIAL ISSUE	RMD	JSL	MAH



PANEL NO. D03-2253-0031AP05

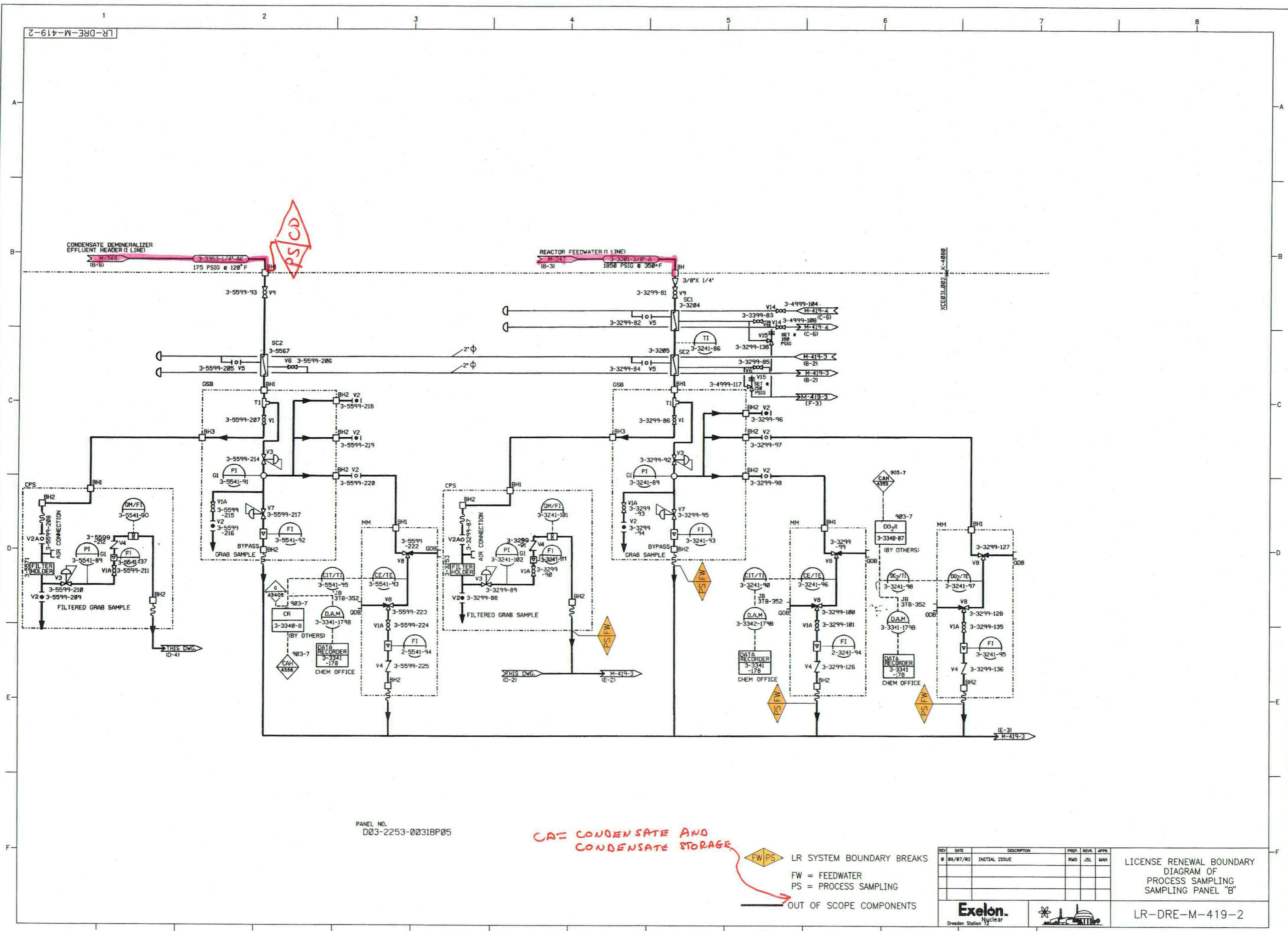
TBC=TBCW
 CD=CONDENSATE AND CONDENSATE STORAGE
 MCPS LR SYSTEM BOUNDARY BREAKS
 MC = MAIN CONDENSER
 PS = PROCESS SAMPLING
 DWM = DEMINERALIZED WATER MAKEUP
 OUT OF SCOPE COMPONENTS

REV	DATE	DESCRIPTION	PREP.	REV.	APPR.
0	09/05/02	INITIAL ISSUE	SP	JSL	MAH

LICENSE RENEWAL BOUNDARY DIAGRAM OF PROCESS SAMPLING PART 1 TURBINE BUILDING SAMPLE PANEL "A"

Exelon Nuclear
 Dresden Station

LR-DRE-M-419-1



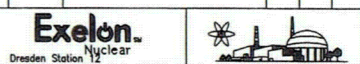
PANEL NO. D03-2253-0031BP05

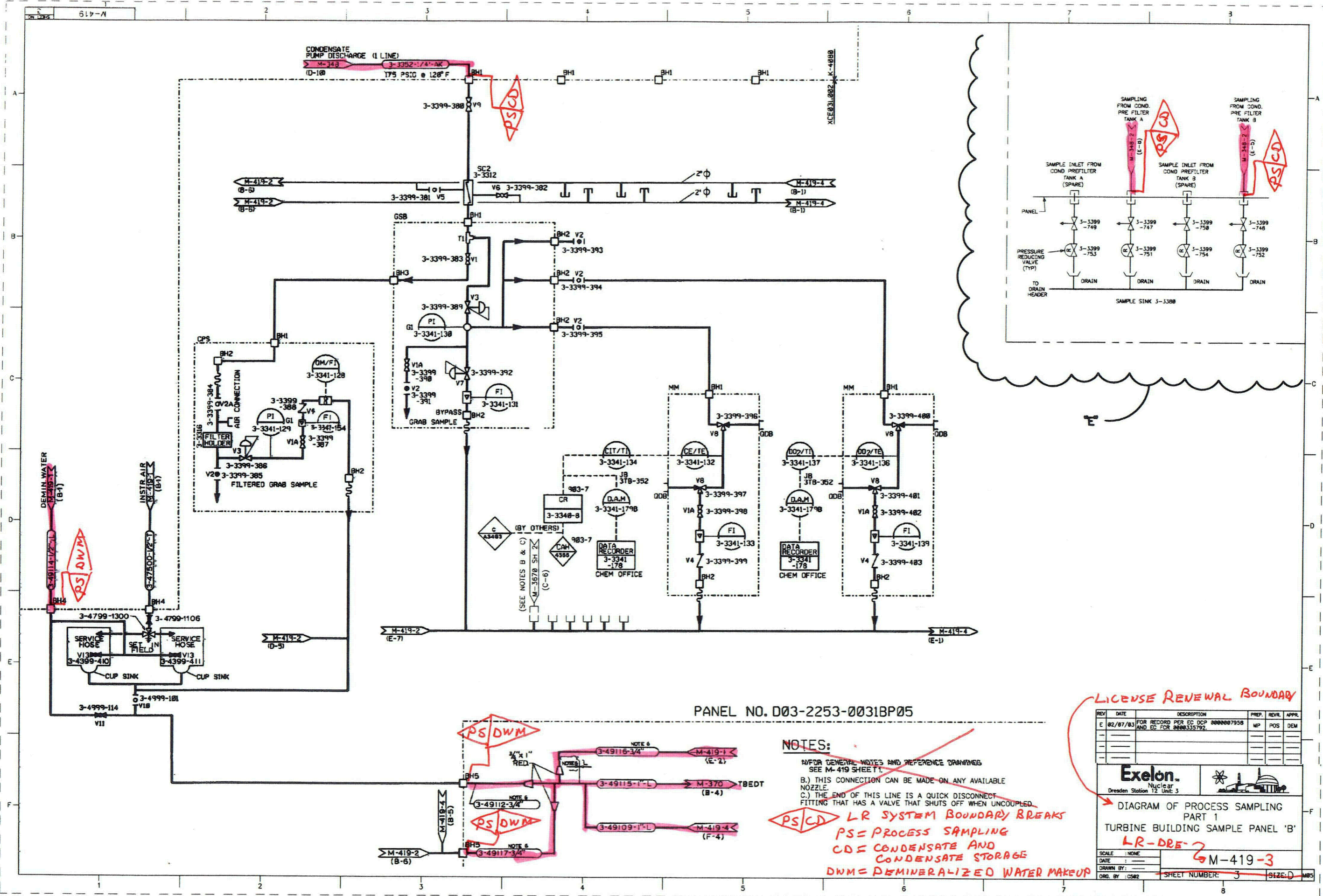
CAE CONDENSATE AND CONDENSATE STORAGE

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

REV	DATE	DESCRIPTION	PREP.	REV.	APPR.
0	09/07/02	INITIAL ISSUE	RMD	JSL	MAH

LICENSE RENEWAL BOUNDARY DIAGRAM OF PROCESS SAMPLING SAMPLING PANEL "B"





PANEL NO. D03-2253-0031BP05

NOTES:
 A) FOR GENERAL NOTES AND REFERENCE DRAWINGS SEE M-419 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.
 LR SYSTEM BOUNDARY BREAKS
 PS = PROCESS SAMPLING
 CS = CONDENSATE AND CONDENSATE STORAGE
 DWM = DEMINERALIZED WATER MAKEUP

LICENSE RENEWAL BOUNDARY

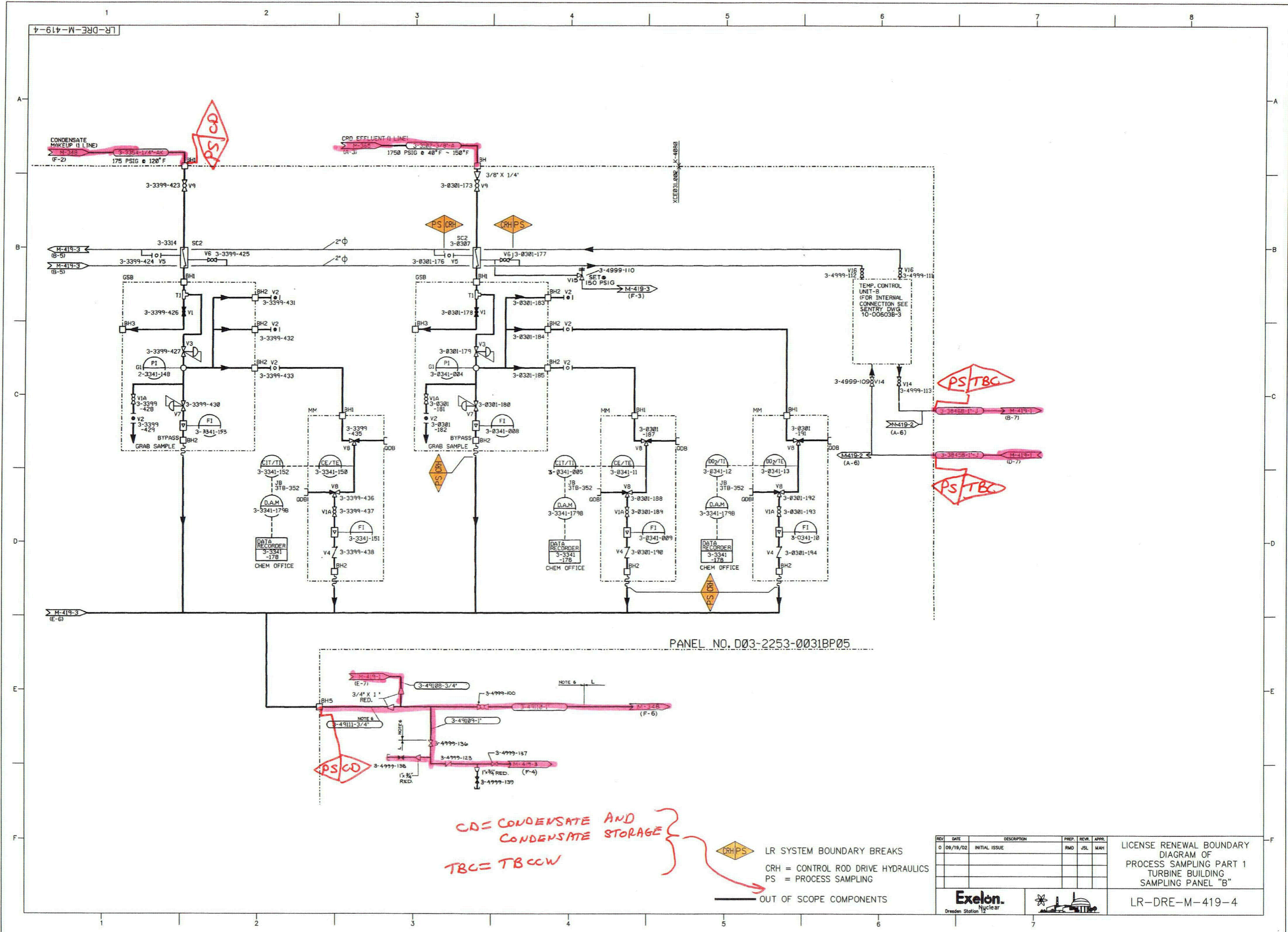
REV	DATE	DESCRIPTION	PREP.	REV.	APPR.
E	02/07/03	FOR RECORD PER EC DCP 0000007958 AND EC FOR 0000335792.	MP	POS	DEM

Exelon Nuclear
 Dresden Station 12 Unit 3

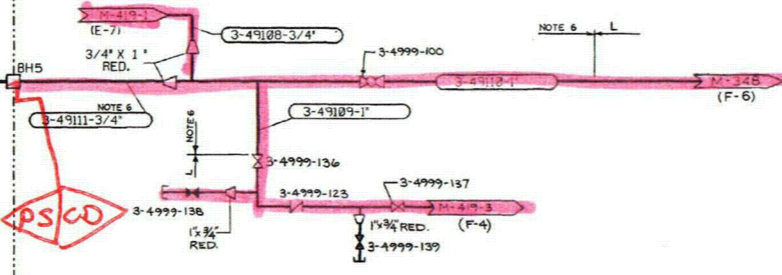
DIAGRAM OF PROCESS SAMPLING PART 1
 TURBINE BUILDING SAMPLE PANEL 'B'

LR-DRE-2
 M-419-3

SCALE: NONE
 DATE: _____
 DRAWN BY: _____
 ORG. BY: CS02 SHEET NUMBER: 3 SIZE: D



PANEL NO. D03-2253-0031BP05



CD = CONDENSATE AND CONDENSATE STORAGE
TBC = TBC CW

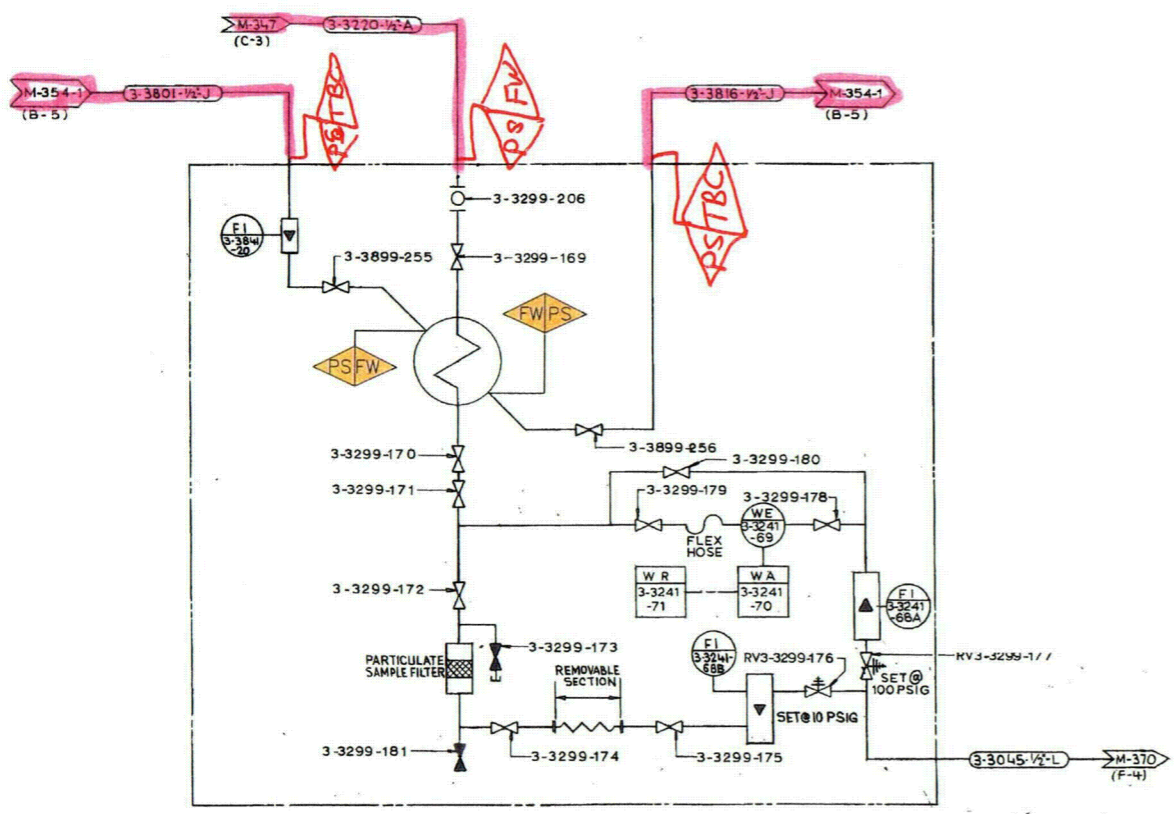
CRH PS LR SYSTEM BOUNDARY BREAKS
CRH = CONTROL ROD DRIVE HYDRAULICS
PS = PROCESS SAMPLING
OUT OF SCOPE COMPONENTS

REV	DATE	DESCRIPTION	PREP.	REVR.	APPR.
0	09/19/02	INITIAL ISSUE	RMD	JSL	MAH

LICENSE RENEWAL BOUNDARY DIAGRAM OF PROCESS SAMPLING PART 1 TURBINE BUILDING SAMPLING PANEL "B"

Exelon Nuclear
Dresden Station

LR-DRE-M-419-4

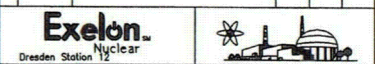


2253-71 FEEDWATER PARTICULATE SAMPLE RACK
FURNISHED BY OTHERS INSTALLED BY K-2202

FWPS LR SYSTEM BOUNDARY BREAKS
 FW = FEED WATER
 PS = PROCESS SAMPLING
TBC = TBCW
 OUT OF SCOPE COMPONENTS

REV	DATE	DESCRIPTION	PREP	REVE	APPR
0	09/06/02	INITIAL ISSUE	SP	JSL	MAH

LICENSE RENEWAL BOUNDARY
 DIAGRAM OF
 PROCESS SAMPLING PART 3

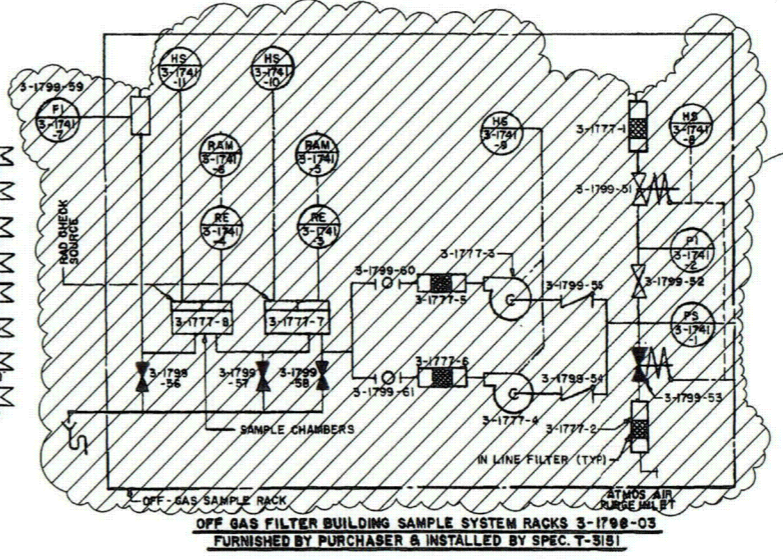
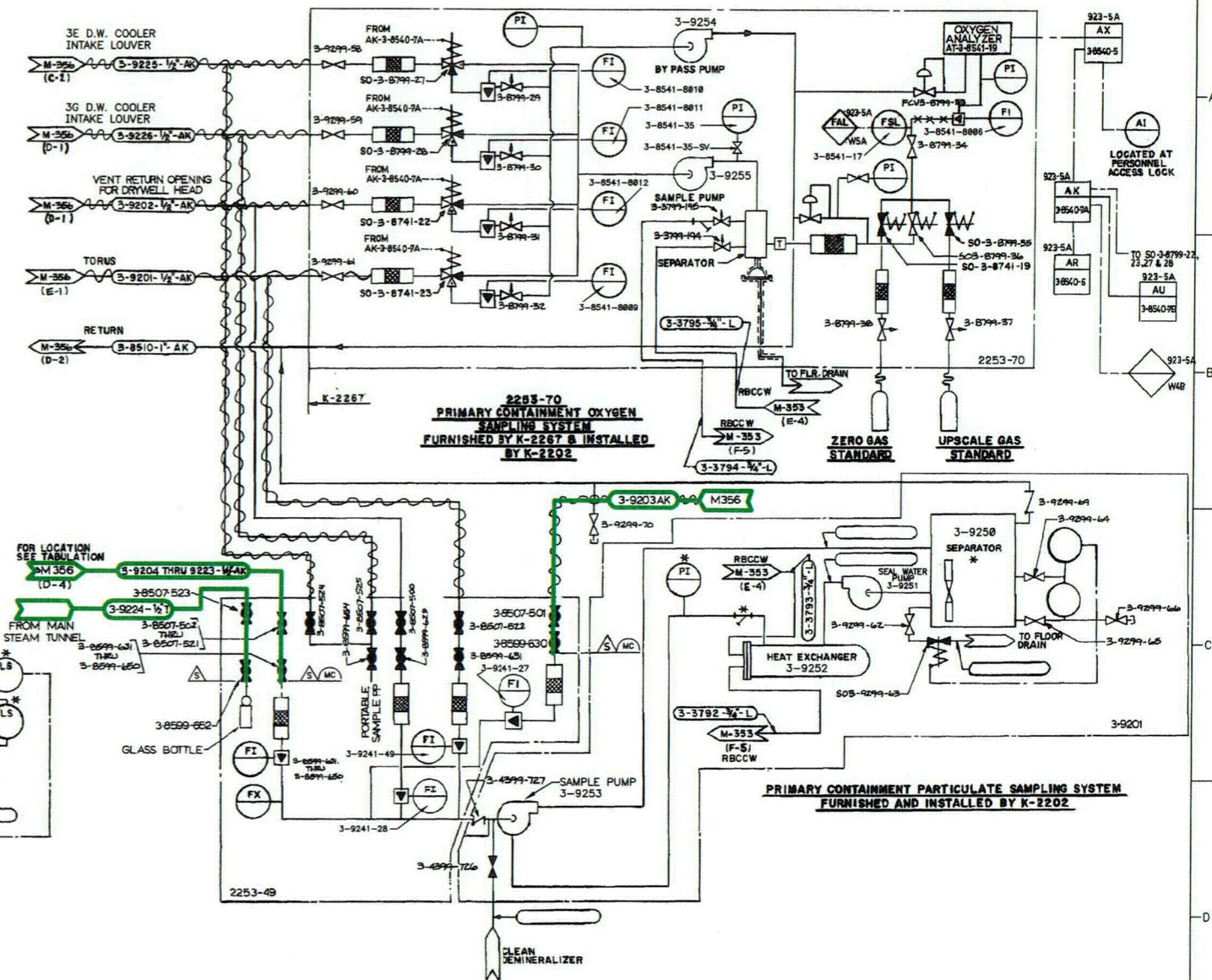
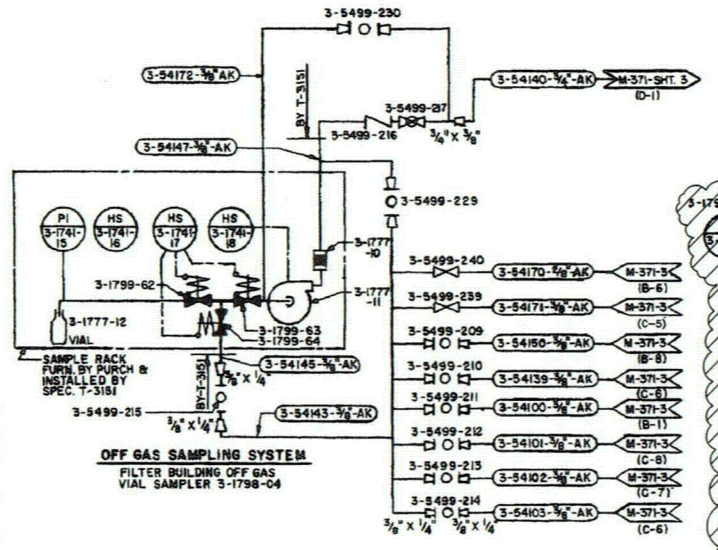
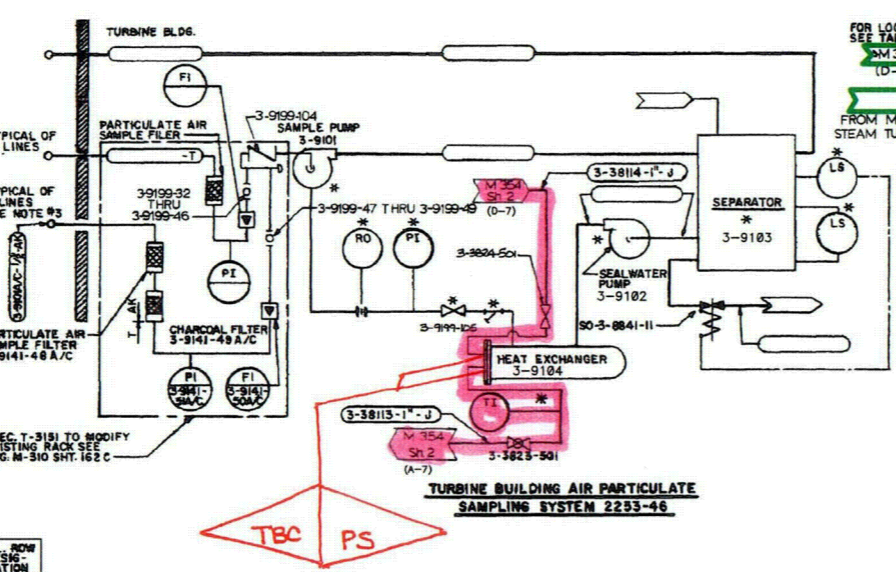
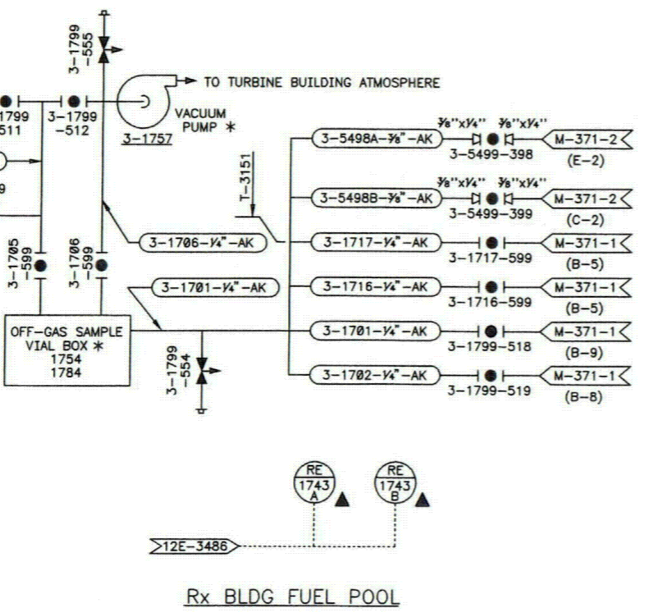


VALVES LOCKED CLOSED
VALVE 3-8507-522 IS LOCKED CLOSED

No	LOCATION	ELEV.	VALVE	VALVE
1	VENT RETURN OPENING FOR DRYWELL HEAD	568	500	629
2	ANN. AIR SPACE BTW. BIOLOGICAL SHIELD / RX	562	501	630
3	ANN. AIR SPACE BTW. BIOLOGICAL SHIELD / RX	567	502	631
4	ANN. AIR SPACE BTW. BIOLOGICAL SHIELD / RX	572	503	632
5	ANN. AIR SPACE BTW. BIOLOGICAL SHIELD / RX	572	504	633
6	OVER ELEC. RELIEF VALVES ON STEAM LINES C/D	555	505	634
7	ANN. AIR SPACE BTW. BIOLOGICAL SHIELD / RX	563	506	635
8	OVER ELEC. RELIEF VALVES ON STM LINES A/B	555	507	636
9	AZ = 130'	537.2	508	637
10	AZ = 120'	537.2	509	638
11	MO-3-202-4A REC. PUMP SUCTION, NEAR VALVE BON.	509	510	639
12	MO-3-202-4B REC. PUMP SUCTION, NEAR VALVE BON.	515	511	640
13	REC. PUMP 3A, SHAFT SEAL	513	512	641
14	REC. PUMP 3B, SHAFT SEAL	513	513	642
15	MO-3-202-5A, REC. PUMP DISCHARGE VALVE, NEAR BON (CAPPED)	513	514	643
16	MO-3-202-5B, REC. PUMP DISCHARGE VALVE, NEAR BON.	513	515	644
17	PR. STM. ISOL. VALVES BETWEEN C/D	565	516	645
18	PR. STM. ISOL. VALVES BETWEEN C/A	515	517	646
19	PR. STM. ISOL. VALVES BETWEEN A/B	515	518	647
20	CRD. SUBP. ROOM	510	519	648
21	BETWEEN 'B' RECIRC. HEADER / BIOL. SHIELD	517	520	649
22	BETWEEN 'X' RECIRC. HEADER / BIOL. SHIELD	517	521	650
23	TORUS	522	522	651
24	STEAM TUNNEL SAMPLE	518.6	523	652
25	3G DRYWELL COOLER INTAKE LOUVER	538.4	524	NONE
26	3E DRYWELL COOLER INTAKE LOUVER	518.4	525	654

SAMPLE POINT No	LOCATION	APPROX. ELEV.	COL. ROW DESIG. NATION
6	AIR EJECTOR COMPARTMENT "A" MIDDLE OF ROOM	945'-0"	91-D
5	AIR EJECTOR COMPARTMENT "B" MIDDLE OF ROOM	945'-0"	49-D
7	TURBINE BUILDING EXHAUST	538'-0"	48-D
8	TURBINE PEDESTAL NORTH OF MAIN STEAM STOP VALVES	530'-0"	47-F
9	CONCRETE BEAM OVER TURBINE BY-PASS	530'-0"	47-B
10	TURBINE PEDESTAL SOUTH OF AND ON E OF 'D' LOW PRESSURE CYLINDER	546'-0"	30-F
11	"D" HIGH PRESS. HEATER COMPARTMENT AT CEILING	957'-0"	49-G
4	NORTH CONDENSATE DEMINERALIZER ROOM AND CEILING	531'-0"	47-C
2	SOUTH CONDENSATE DEMINERALIZER ROOM AND CEILING	531'-0"	47-D
1	CONDENSATE DEMINERALIZER REGENERATIVE ROOM AND CEILING	530'-6"	'B' BETWEEN 48 AND 46
12	UNDER EAST END OF TURB. PEDESTAL BETWEEN HIGH PRESS. CYLINDER & MOIST. SEPARATOR	551'-0"	46 AT TURBINE #
13	NORTHWEST VERTICAL PEDESTAL SUPPORT OF 'A' LOW PRESSURE TURBINE	525'-0"	48-E
14	NORTHWEST VERTICAL PEDESTAL SUPPORT OF 'B' LOW PRESSURE TURBINE	525'-0"	49-E
15	NORTHWEST VERTICAL PEDESTAL SUPPORT OF 'C' LOW PRESSURE TURBINE	525'-0"	51-E
3	UNDER CONDENSER HOTWELL IN CONDENSER PIT ROOM AT CENTER	481'-0"	50-E LINE NO.
17	OFF GAS CONDENSER 3B CUBICLE	605'-0"	50-D 3-9101A-1/2" AK
18	OFF GAS CONDENSER & CATALYTIC RECOMBINER 3A CUBICLE	586'-0"	49-D 3-9101B-1/2" AK
16	OFF GAS CATALYTIC RECOMBINER 3B CUBICLES	586'-0"	51-D 3-9101C-1/2" AK
	SPARE		
	SPARE		

TURBINE BUILDING AIR PARTICULATE SAMPLE LOCATION TABULATION



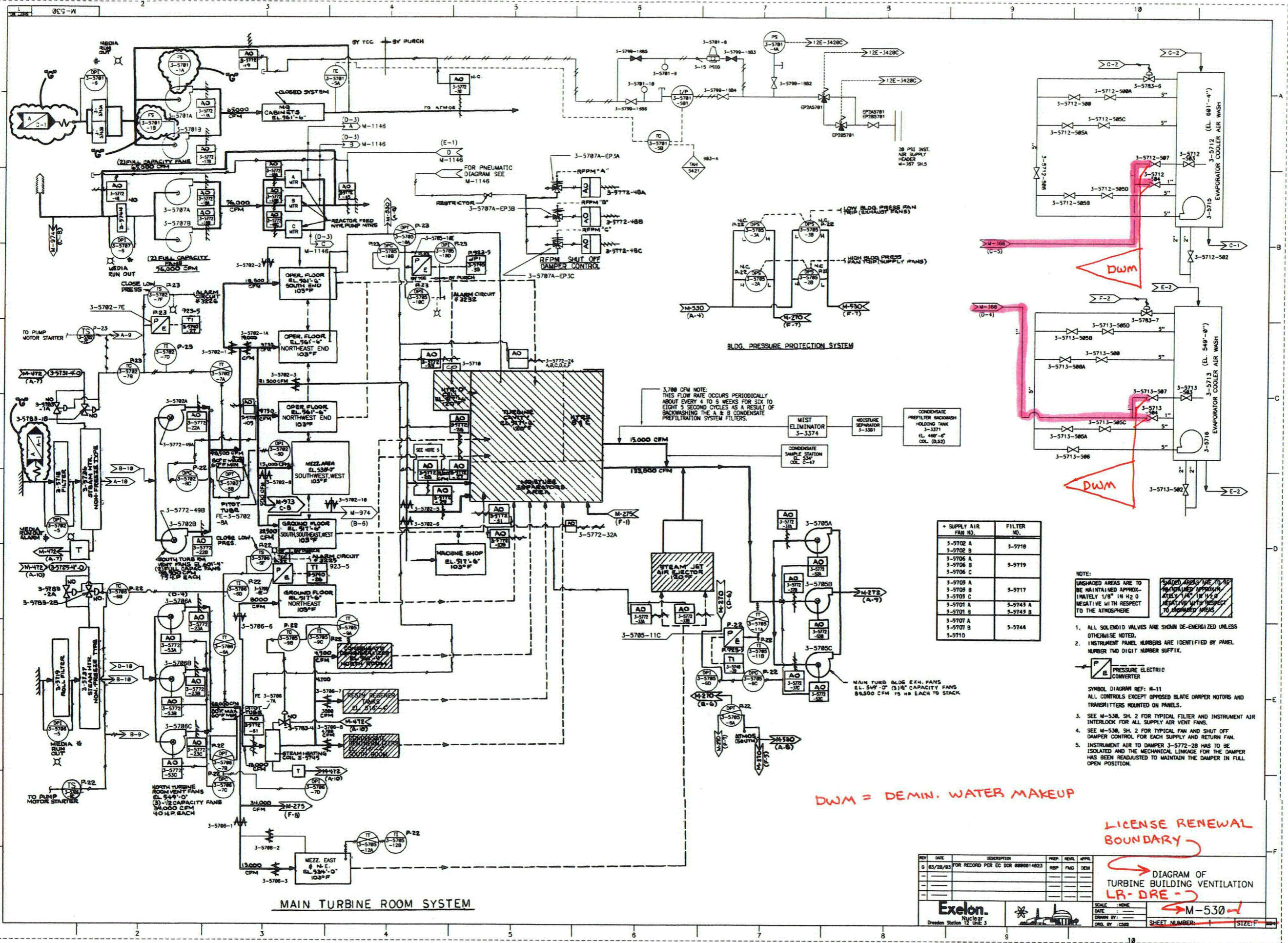
— IN SCOPE COMPONENTS PER 54.4(a)(1), AND 54.4(a)(3)
— OUT OF SCOPE COMPONENTS

ABANDONED IN PLACE

REV	DATE	DESCRIPTION	PREP.	REV.	APPR.
8	09/19/82	INITIAL ISSUE		SP	JSL MAH

Exelon Nuclear
Dresden Station

LICENSE RENEWAL BOUNDARY DIAGRAM OF PROCESS SAMPLING PART 2



3,700 CFM NOTE:
THIS FLOW RATE OCCURS PERIODICALLY ABOUT EVERY 4 TO 5 WEEKS FOR SIX TO EIGHT 5 SECOND CYCLES AS A RESULT OF BACKWASHING THE A & B CONDENSATE PRE-FILTRATION SYSTEM FILTERS.

SUPPLY AIR FAN NO.	FILTER NO.
3-5702 A	3-5710
3-5702 B	3-5710
3-5706 A	3-5711
3-5706 B	3-5711
3-5706 C	3-5711
3-5709 A	3-5717
3-5709 B	3-5717
3-5709 C	3-5717
3-5701 A	3-5743 A
3-5701 B	3-5743 B
3-5707 A	3-5744
3-5707 B	3-5744
3-5710	3-5744

NOTE:
UNSHADDED AREAS ARE TO BE MAINTAINED APPROXIMATELY 1/8" IN H₂O NEGATIVE WITH RESPECT TO THE ATMOSPHERE.
SHADDED AREAS ARE TO BE MAINTAINED APPROXIMATELY 1/4" IN H₂O NEGATIVE WITH RESPECT TO UNSHADDED AREAS.

- ALL SOLENOID VALVES ARE SHOWN DE-ENERGIZED UNLESS OTHERWISE NOTED.
- INSTRUMENT PANEL NUMBERS ARE IDENTIFIED BY PANEL NUMBER TWO DIGIT NUMBER SUFFIX.
- SEE M-530, SH. 2 FOR TYPICAL FILTER AND INSTRUMENT AIR INTERLOCK FOR ALL SUPPLY AIR VENT FANS.
- SEE M-530, SH. 2 FOR TYPICAL FAN AND SHUT OFF DAMPER CONTROL FOR EACH SUPPLY AND RETURN FAN.
- INSTRUMENT AIR TO DAMPER 3-5772-28 HAS TO BE ISOLATED AND THE MECHANICAL LINKAGE FOR THE DAMPER HAS BEEN READJUSTED TO MAINTAIN THE DAMPER IN FULL OPEN POSITION.

DWM = DEMIN. WATER MAKEUP

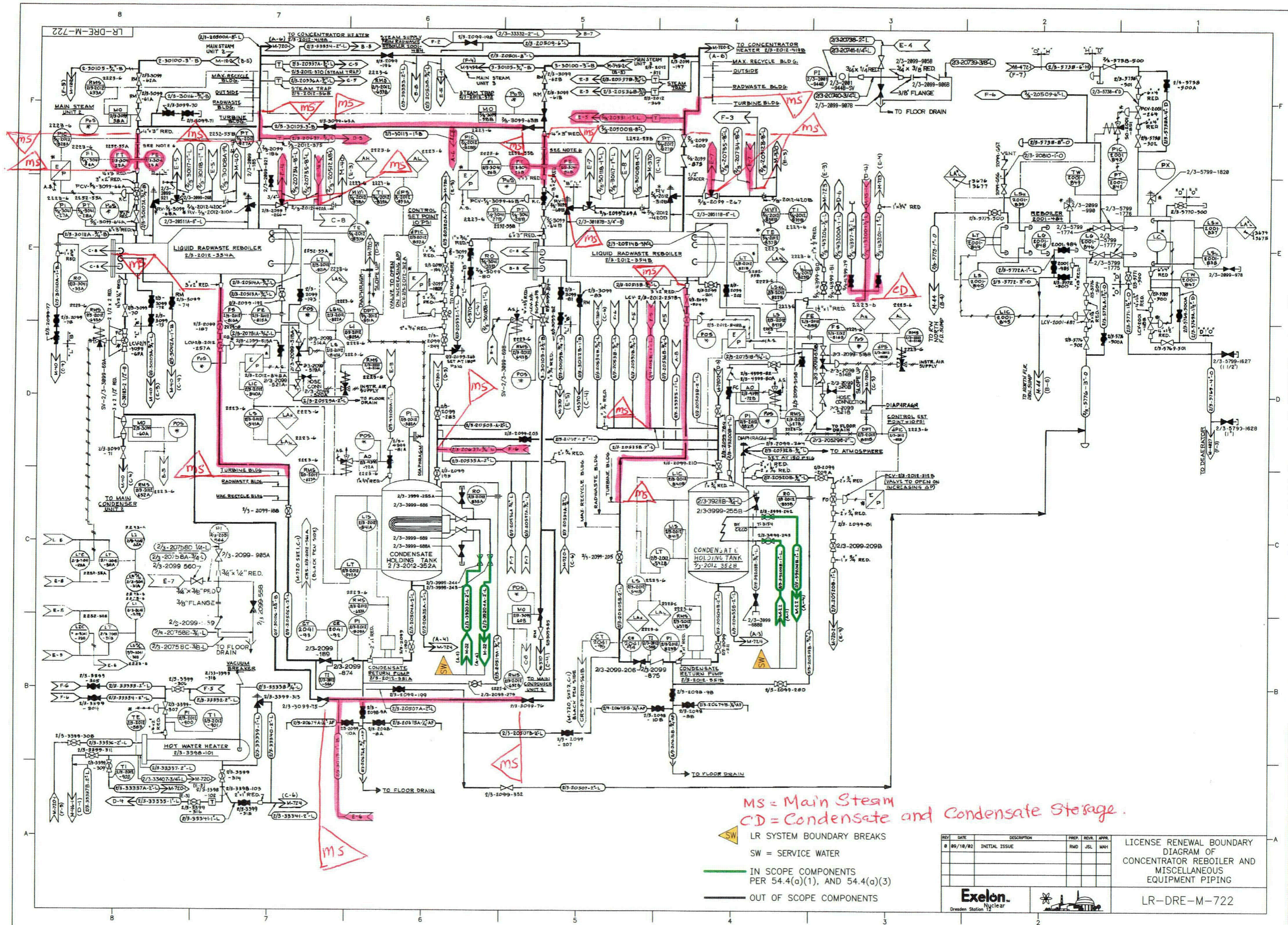
LICENSE RENEWAL BOUNDARY

DIAGRAM OF TURBINE BUILDING VENTILATION LR-DRE-2

REV	DATE	DESCRIPTION	PREP.	REV.	APPL.
1	03/28/03	FOR RECORD PER EC DCR 080014823	REP	PAO	DEM

Exelon Nuclear
Dresden Station, Unit 3

SCALE: NONE
DATE: _____
DRAWN BY: _____
ORL BY: CMB
SHEET NUMBER: _____
SIZE: F

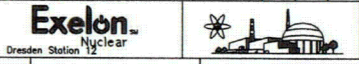


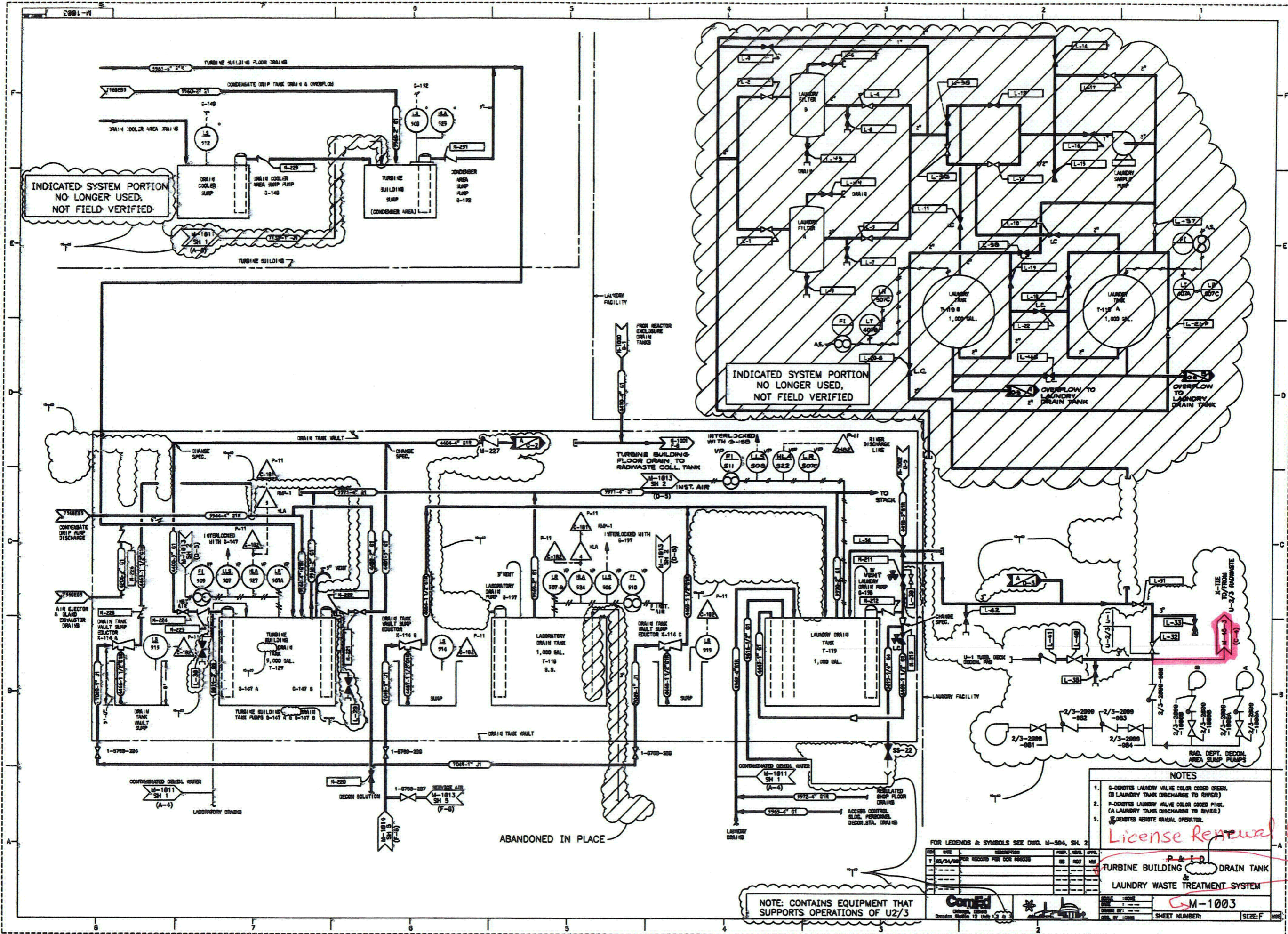
MS = Main Steam
 CD = Condensate and Condensate Storage.

- SW LR SYSTEM BOUNDARY BREAKS
- SW = SERVICE WATER
- IN SCOPE COMPONENTS PER 54.4(a)(1), AND 54.4(a)(3)
- OUT OF SCOPE COMPONENTS

REV	DATE	DESCRIPTION	PREP.	REV.	APP.
0	09/10/02	INITIAL ISSUE			

LICENSE RENEWAL BOUNDARY
 DIAGRAM OF
 CONCENTRATOR REBOILER AND
 MISCELLANEOUS
 EQUIPMENT PIPING
 LR-DRE-M-722





INDICATED SYSTEM PORTION
NO LONGER USED,
NOT FIELD VERIFIED

INDICATED SYSTEM PORTION
NO LONGER USED,
NOT FIELD VERIFIED

NOTE: CONTAINS EQUIPMENT THAT
SUPPORTS OPERATIONS OF U2/3

- NOTES
1. G-DENOTES LAUNDRY VALVE COLOR CODED GREEN.
(B) LAUNDRY TANK DISCHARGE TO RIVER.
 2. F-DENOTES LAUNDRY VALVE COLOR CODED PINK.
(A) LAUNDRY TANK DISCHARGE TO RIVER.
 3. R-DENOTES REMOTE MANUAL OPERATOR.

FOR LEGENDS & SYMBOLS SEE DWG. M-504, SH. 2

REV	DATE	DESCRIPTION	PREP.	CHKD.	APPV.
1	08/24/88	FOR RECORD FOR OUR RECORDS	BB	RDJ	MB

License Renewal

P & ID
TURBINE BUILDING DRAIN TANK
&
LAUNDRY WASTE TREATMENT SYSTEM

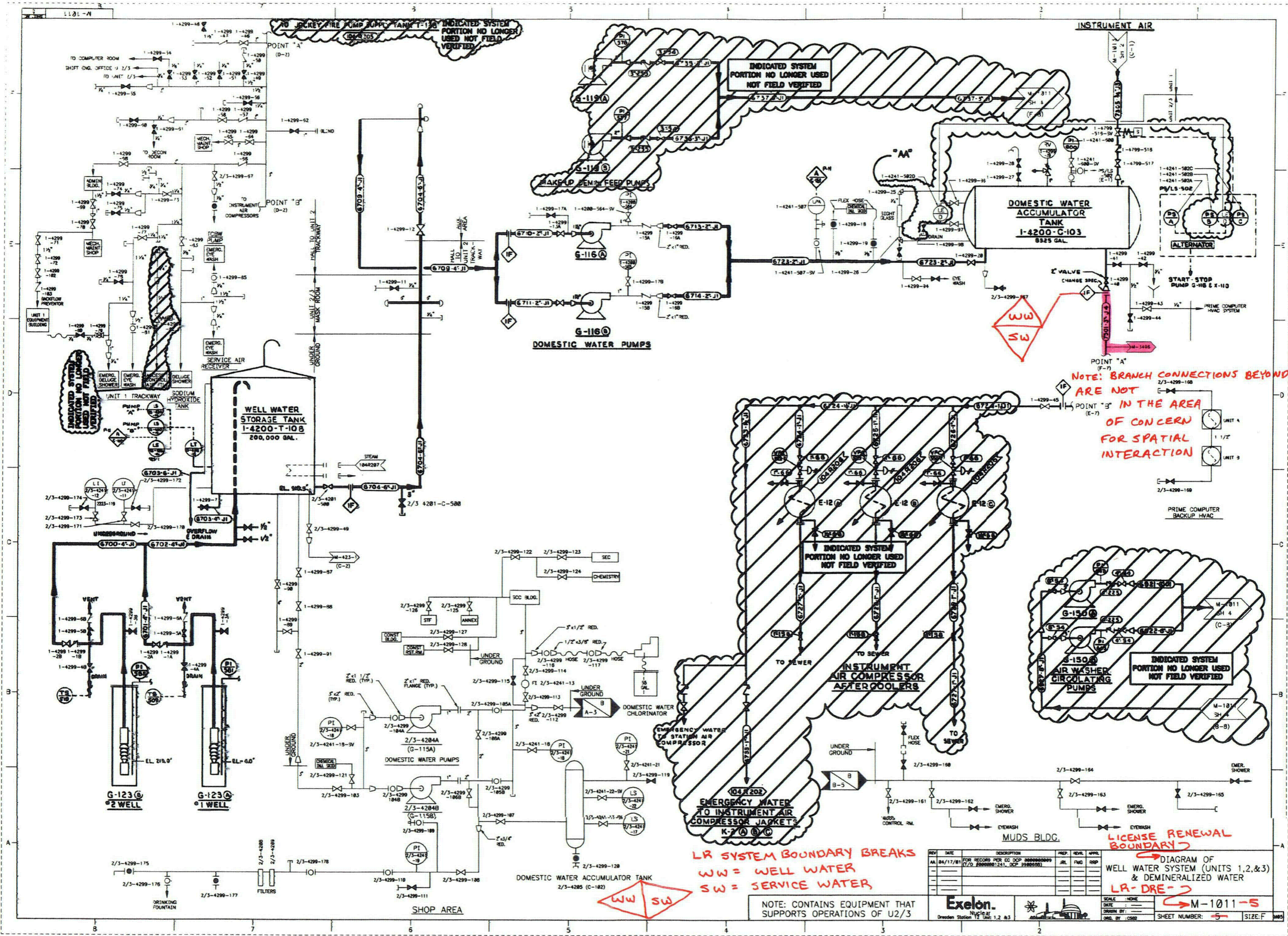
M-1003

SHEET NUMBER: _____ SIZE: F

Boundary Diagram of

LR-DRE-

P & ID-TURBINE BUILDING DRAIN TANK & LAUNDRY WASTE



NOTE: BRANCH CONNECTIONS BEYOND POINT "A" ARE NOT OF CONCERN FOR SPATIAL INTERACTION

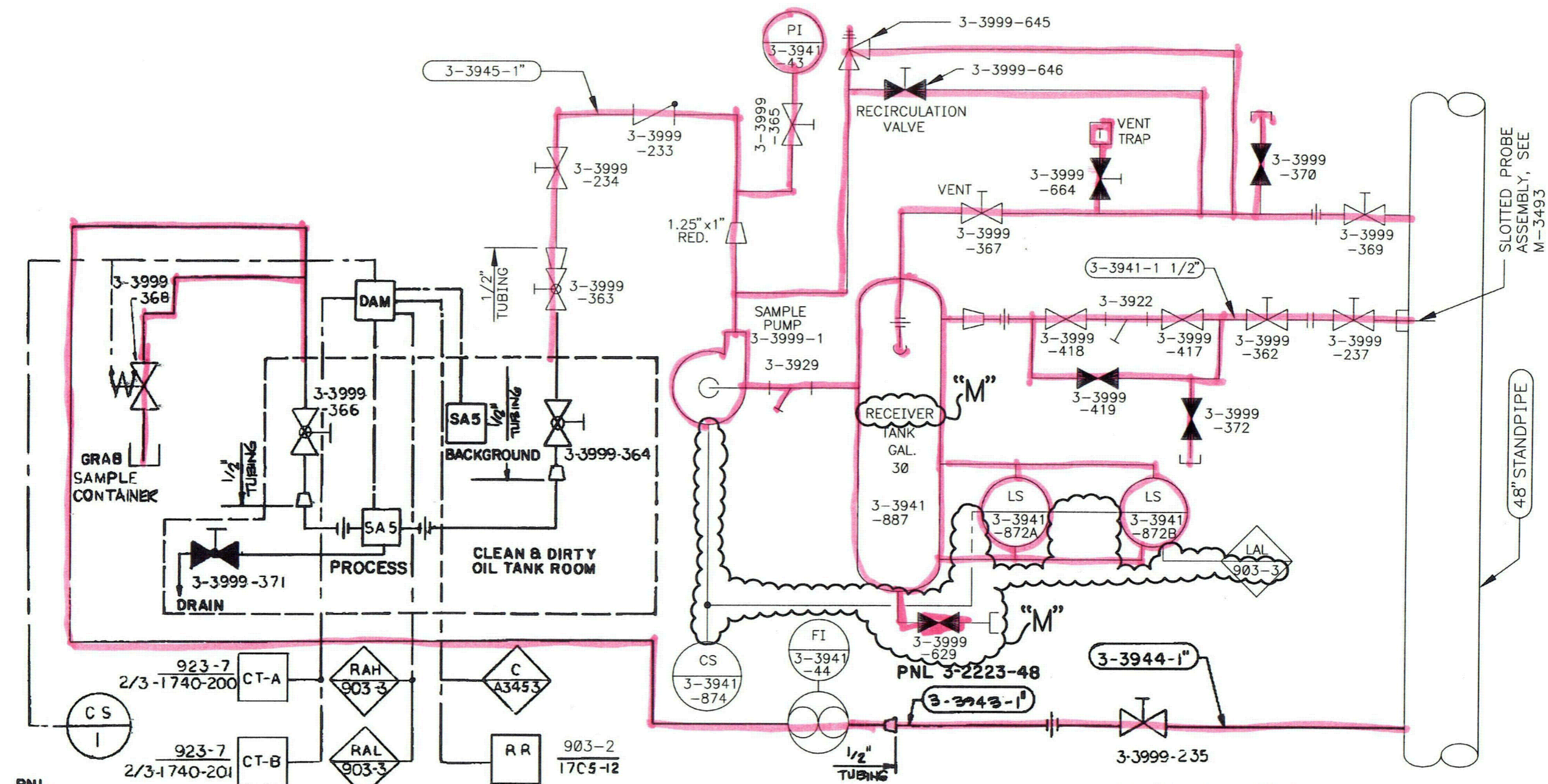
LR SYSTEM BOUNDARY BREAKS
 WW = WELL WATER
 SW = SERVICE WATER

NOTE: CONTAINS EQUIPMENT THAT SUPPORTS OPERATIONS OF U2/3

REV	DATE	DESCRIPTION	PREP.	REVL.	APPR.
01	04/17/01	FOR RECORD PER EC OCP 0800000000 (7/3 0800001261, OCP 08000000)	JRL	FMG	RRP

DIAGRAM OF WELL WATER SYSTEM (UNITS 1,2,&3) & DEMINERALIZED WATER
 LR-DRE-2
 M-1011-S
 SHEET NUMBER: 5 SIZE: F

Exelon
 Dresden Station Units 1, 2 & 3



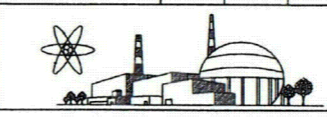
PNL. 3-2223-48

REFERENCE DRAWINGS
 M-3492 SHT. 1-3 PIPING INSTALLATION
 M-355 DIAGRAM OF S.W. PIPING

REV	DATE	DESCRIPTION	PREP.	REV.	APPR.
M	06/20/00	FOR RECORD PER DCR 990421	BMC	NSS	MM
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

LICENSE RENEWAL BOUNDARY
DIAGRAM OF
PIPING INSTRUMENT
LIQUID RADIATION MONITOR
SERVICE WATER SYSTEM

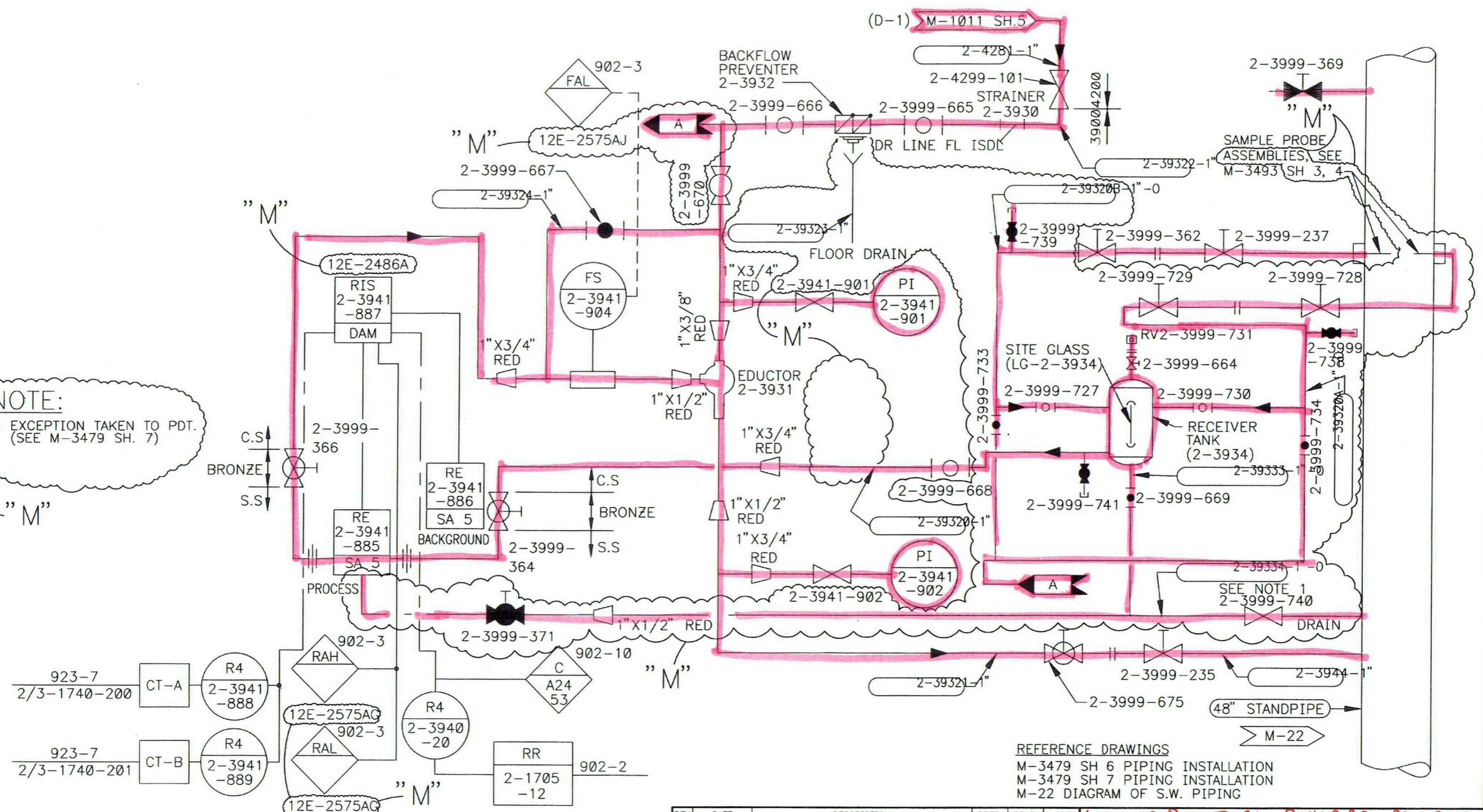
ComEd
 A Unicom Company
 Chicago, Illinois
 Dresden Station 12 Unit: 3



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

LR-DRE
 M-3486
 SHEET NUMBER: SIZE: B M05

NOTE:
 1. EXCEPTION TAKEN TO PDT.
 (SEE M-3479 SH. 7)



REFERENCE DRAWINGS
 M-3479 SH 6 PIPING INSTALLATION
 M-3479 SH 7 PIPING INSTALLATION
 M-22 DIAGRAM OF S.W. PIPING

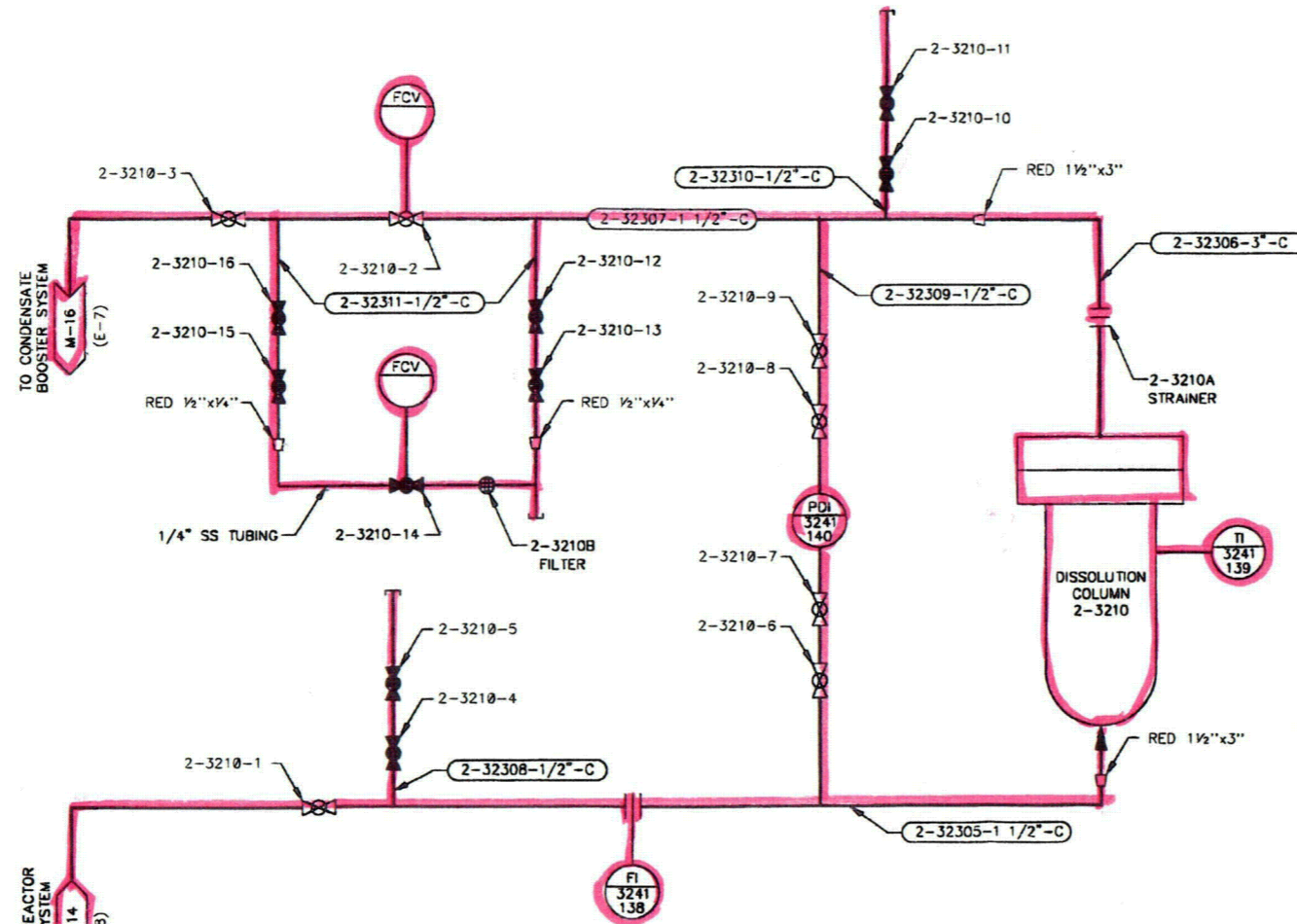
REV	DATE	DESCRIPTION	PREP.	REVR.	APPR.
M	01/22/99	FOR RECORD PER T/O #000000767, DCP 9700166 (E12-2-97-217), DCN 001108M00 & FCR 980121	FLV	FMG	MM
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

LICENSE RENEWAL BOUNDARY DIAGRAM
OF
P & I D
LIQUID RADIATION MONITOR
SERVICE WATER SYSTEM
LR-DRE-2

<p>ComEd A Unicom Company Chicago, Illinois Dresden Station 12 Unit: 2</p>		SCALE : NONE	<p>M-3496</p>
		DATE : --	
		DRAWN BY : --	SIZE: B M05
		ORG. BY : C502	

M-4431

DRAWING NUMBER



NOTES

1. THIS P & ID IS REDRAWN FROM GE DRAWING 112D6308.
2. NORMAL OPERATIONAL FLOW IS 50 GPM WITH A MIN FLOW OF 4 AND A MAX FLOW OF 100 GPM.

REFERENCE DRAWINGS

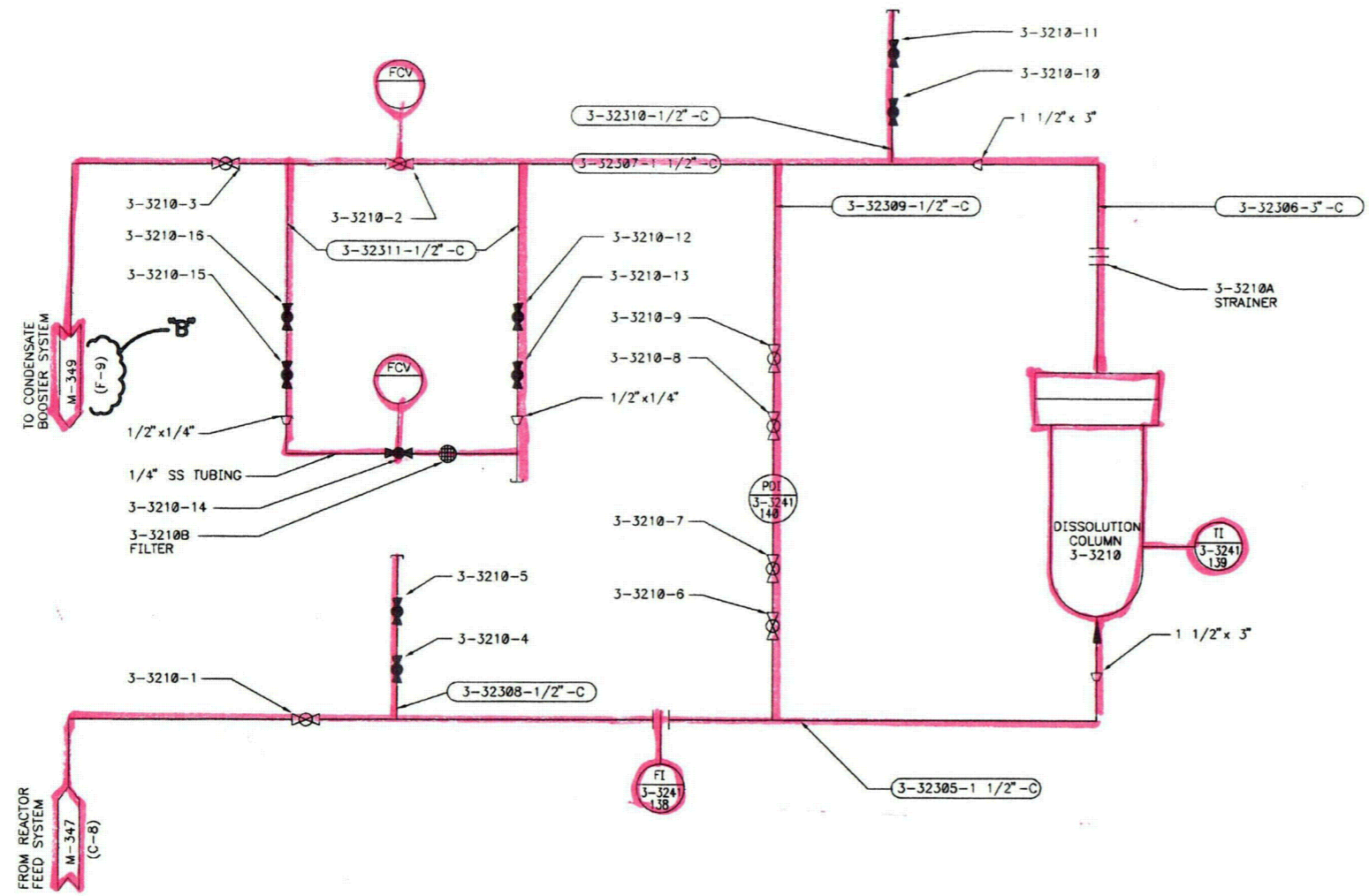
GE DRAWING 112D6308

DRAWING RELEASE RECORD		
REVISION: A	DATE: 10/10/96	SCALE: NONE
DESCRIPTION: FOR RECORD PER T/O #000000250, DCP 9400007 (M12-2-94-007), DCN 000831M00 & 000831M01		
PREPARED: F. PELLEGRINO	REVIEWED: D. HATCHER	
APPROVED: M. MOLAEI	DC: 05	SC: 3200

LICENSE RENEWAL BOUNDARY
OF ZINC INJECTION
 PROCESS SYSTEM
LR-DRE-M-4431

ComEd
 A Unicom Company
 DRESDEN STATION 12
 UNIT 2
 CHICAGO, ILLINOIS

DRAWING NUMBER
M-4431
 SHEET



NOTES

- THIS P & ID IS REDRAWN FROM GE DRAWING 11206308.
- NORMAL OPERATIONAL FLOW IS 50 GPM WITH A MIN FLOW OF 4 AND A MAX FLOW OF 100 GPM.

REFERENCE DRAWINGS

11206308	GE DRAWING
----------	------------

REV	DATE	DESCRIPTION	PREP.	REVR.	APPR.
B	07/18/83	FOR RECORD PER EC DCR 0000341470	RBP	POS	DEM
-	-	-	-	-	-
-	-	-	-	-	-

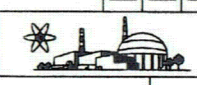
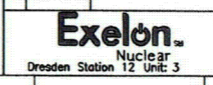
LICENSE RENEWAL BOUNDARY OF ZINC INJECTION PROCESS SYSTEM

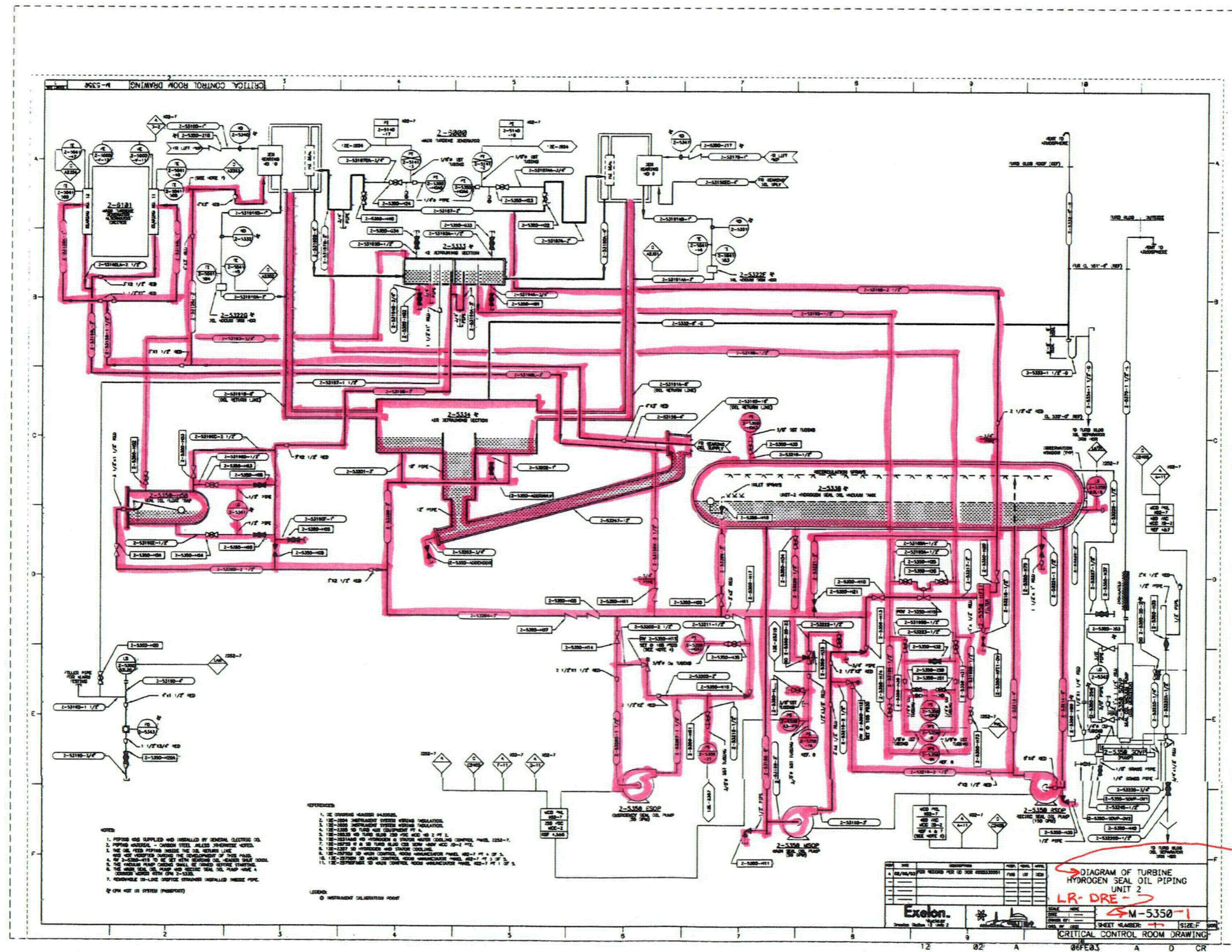
LR-DRE-M-4431A

SCALE : NONE
DATE :
DRAWN BY :
ORG. BY : CS02

M-4431A

SHEET NUMBER: SIZE: D





CRITICAL CONTROL ROOM DRAWING M-5350

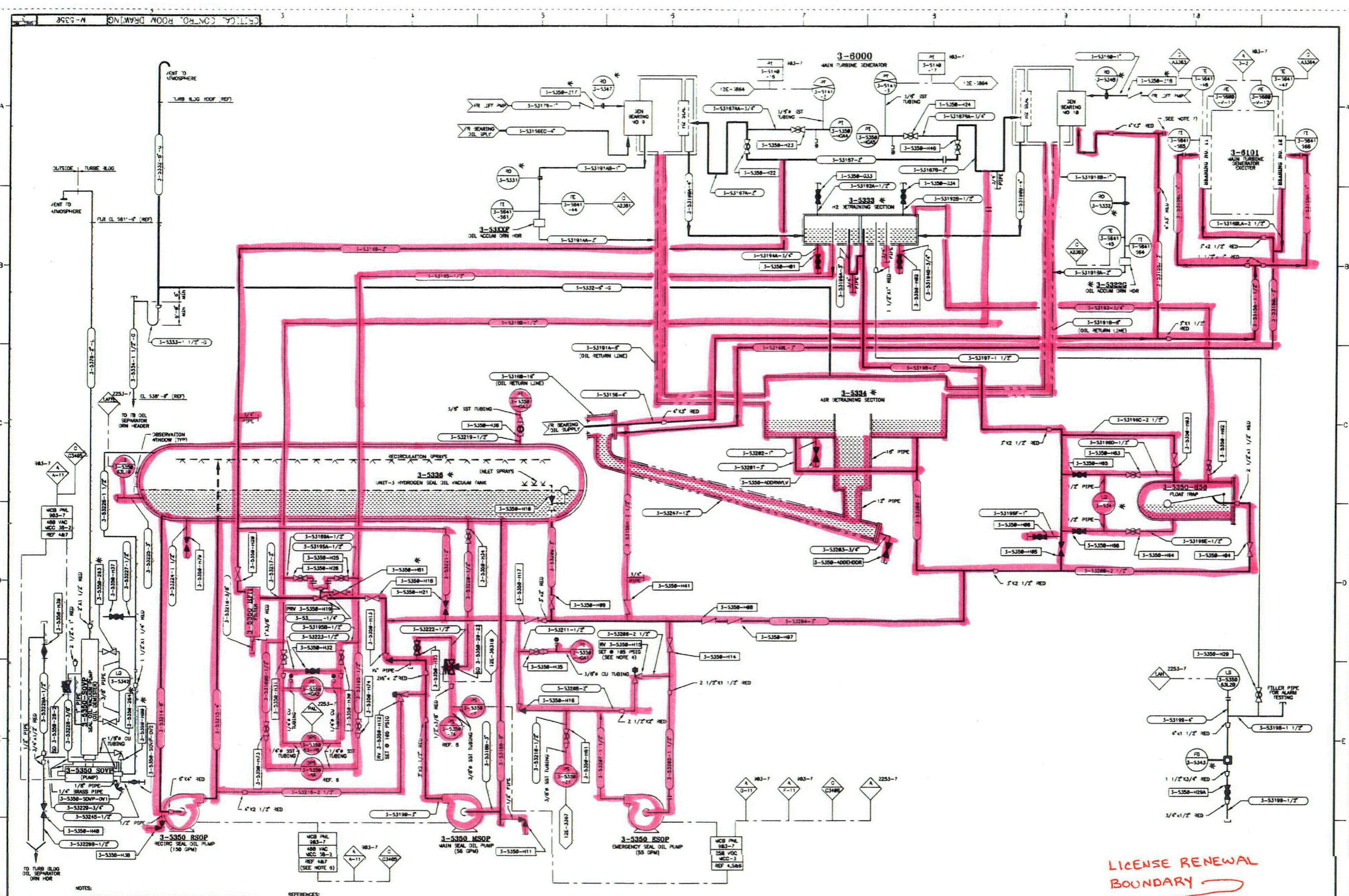
NOTES:
 1. PIPING WAS SUPPLIED AND INSTALLED BY GENERAL ELECTRIC OIL
 2. PIPING MATERIAL - CARBON STEEL, ALLOY STEEL, INCONEL
 3. THE OIL SEALS SYSTEM INCLUDES THE OIL RETURN LINE
 4. THE OIL SEALS SYSTEM INCLUDES THE OIL RETURN LINE
 5. THE OIL SEALS SYSTEM INCLUDES THE OIL RETURN LINE
 6. THE OIL SEALS SYSTEM INCLUDES THE OIL RETURN LINE
 7. REMOVABLE IN-LINE FILTERS INSTALLED WHERE SHOWN
 8. OIL NOT IN SYSTEM (PROPERTY)

- REFERENCES:
1. OIL SEALS SYSTEM MANUAL
 2. OIL SEALS SYSTEM DESIGN SPECIFICATION
 3. OIL SEALS SYSTEM DESIGN SPECIFICATION
 4. OIL SEALS SYSTEM DESIGN SPECIFICATION
 5. OIL SEALS SYSTEM DESIGN SPECIFICATION
 6. OIL SEALS SYSTEM DESIGN SPECIFICATION
 7. OIL SEALS SYSTEM DESIGN SPECIFICATION
 8. OIL SEALS SYSTEM DESIGN SPECIFICATION
 9. OIL SEALS SYSTEM DESIGN SPECIFICATION
 10. OIL SEALS SYSTEM DESIGN SPECIFICATION
 11. OIL SEALS SYSTEM DESIGN SPECIFICATION
 12. OIL SEALS SYSTEM DESIGN SPECIFICATION

LEGEND:
 ○ INSTRUMENT CALIBRATION POINT

Exelon	DIAGRAM OF TURBINE HYDROGEN SEAL OIL PIPING UNIT 2
	LR-DRE-1
	M-5350-1
	SHEET NUMBER: 1/1
	SIZE: F
	CRITICAL CONTROL ROOM DRAWING

LICENSE RENEWAL BOUNDARY



LICENSE RENEWAL
BOUNDARY

- NOTES:
1. PIPING WAS SUPPLIED AND INSTALLED BY GENERAL ELECTRIC CO.
 2. PIPING MATERIAL - CARBON STEEL UNLESS OTHERWISE NOTED.
 3. THE OIL FEED PIPING INSIDE THE OIL RETURN LINE WAS NOT VERIFIED DURING THE DEVELOPMENT OF THIS PWD.
 4. RV 3-5350-H15 TO BE SET WITH BEARING OIL HEADER SHUT DOWN.
 5. THE VACUUM PUMP CASING SHALL BE GRANDED BEFORE STARTING.
 6. THE MAIN SEAL OIL PUMP AND RECIRC SEAL OIL PUMP HAVE A COMMON MOTOR WITH THE EPN 3-5350.
 7. REMOVABLE IN-LINE ORIFICE STRAINER INSTALLED INSIDE PIPE.
 - * EPN NOT IN SYSTEM (PASSPORT)

- REFERENCES:
1. DC DRAWING NUMBER 3-53025
 2. 12E-1084 INSTRUMENT SYSTEM WIRING TABULATION.
 3. 12E-1083 INSTRUMENT SYSTEM WIRING TABULATION.
 4. 12E-1585 SD TURBINE AUXILIARY EQUIPMENT PT 4.
 5. 12E-1683B HD TURB BLDG 250 VDC MCC NO 3 PT2.
 6. 12E-1631AB HD HYDROGEN STATOR COOLING CONTROL PNL 2253-7.
 7. 12E-1678B HD TURB BLDG ESSENTIAL SERVICE 480 VAC MCC 3B-3 PT 2.
 8. 12E-1367 SD HYDROGEN AND STATOR COOLING.
 9. 12E-1575BC SD CONTROL ROOM ANNUNCIATOR PANEL 963-7 PT 2 OF 5.

LEGEND:
 INSTRUMENT CALIBRATION POINT

REV	DATE	DESCRIPTION	PREP.	REVR.	APPR.
A	02/06/03	FOR RECORD PER EC OCR 0000339951			

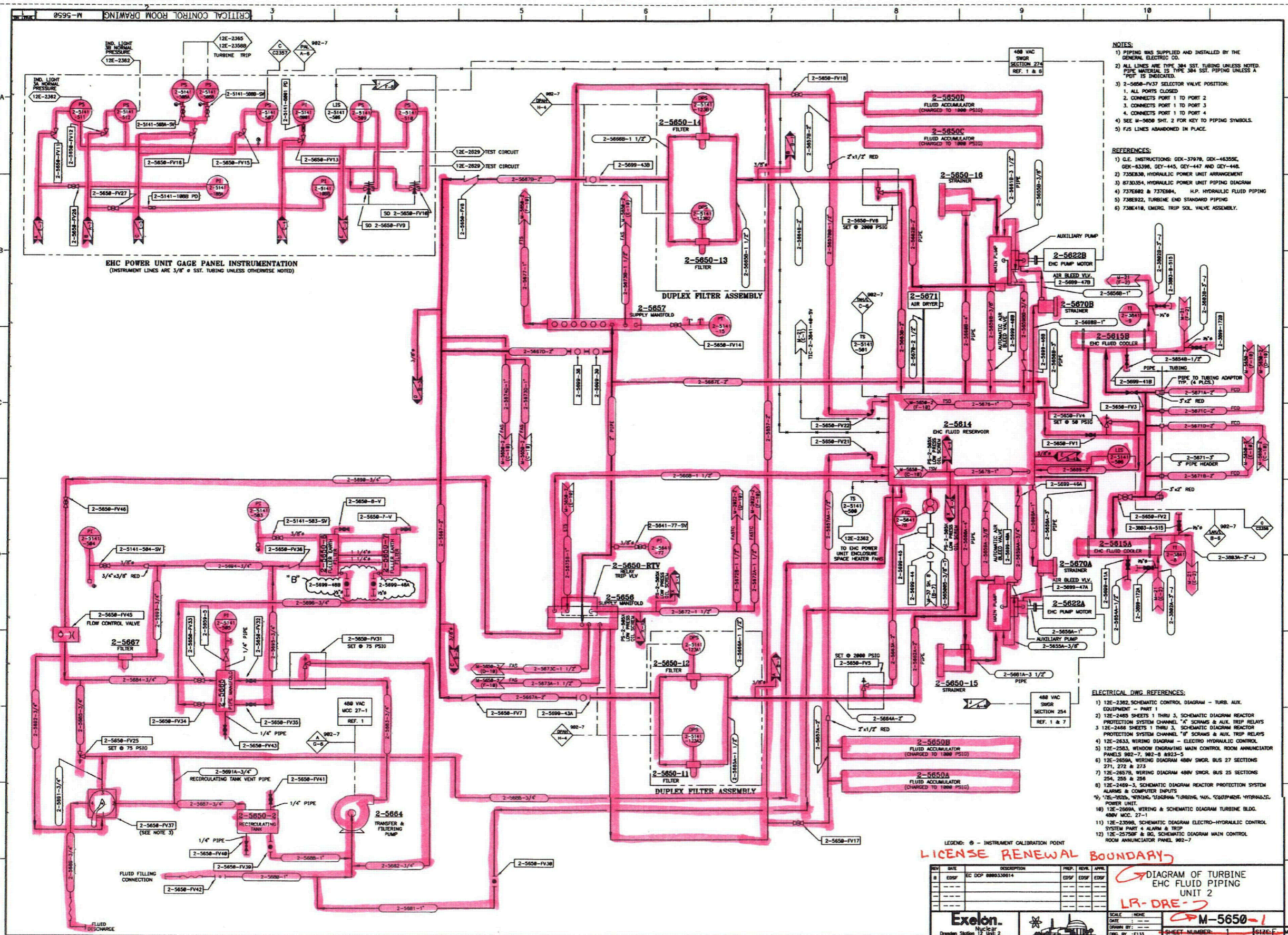
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 SHEET NUMBER: 3
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DIAGRAM OF TURBINE
HYDROGEN SEAL OIL PIPING
UNIT 3

LR-DRE-3

M-5350-3

CRITICAL CONTROL ROOM DRAWING



NOTES:

- 1) PIPING WAS SUPPLIED AND INSTALLED BY THE GENERAL ELECTRIC CO.
- 2) ALL LINES ARE TYPE 304 SST. TUBING UNLESS NOTED. PIPE MATERIAL IS TYPE 304 SST. PIPING UNLESS A FOOT IS INDICATED.
- 3) 2-5650-FV37 SELECTOR VALVE POSITION:
 1. ALL PORTS CLOSED
 2. CONNECTS PORT 1 TO PORT 2
 3. CONNECTS PORT 1 TO PORT 3
 4. CONNECTS PORT 1 TO PORT 4
- 4) SEE M-5650 SHT. 2 FOR KEY TO PIPING SYMBOLS.
- 5) FAS LINES ABANDONED IN PLACE.

REFERENCES:

- 1) G.E. INSTRUCTIONS: GEK-37079, GEK-48356, GEK-48356, GEK-445, GEK-447 AND GEK-448.
- 2) 735R30, HYDRAULIC POWER UNIT ARRANGEMENT
- 3) 8730354, HYDRAULIC POWER UNIT PIPING DIAGRAM
- 4) 737E82 & 737E84, H.P. HYDRAULIC FLUID PIPING
- 5) 738E22, TURBINE END STANDARD PIPING
- 6) 738E418, EMERG. TRIP SOL. VALVE ASSEMBLY.

ELECTRICAL DWG REFERENCES:

- 1) 12E-2382, SCHEMATIC CONTROL DIAGRAM - TURB. AUX. EQUIPMENT - PART 1
- 2) 12E-2480 SHEETS 1 THRU 3, SCHEMATIC DIAGRAM REACTOR PROTECTION SYSTEM CHANNEL "A" SCRAMS & AUX. TRIP RELAYS
- 3) 12E-2486 SHEETS 1 THRU 3, SCHEMATIC DIAGRAM REACTOR PROTECTION SYSTEM CHANNEL "B" SCRAMS & AUX. TRIP RELAYS
- 4) 12E-2633, WIRING DIAGRAM - ELECTRO-HYDRAULIC CONTROL
- 5) 12E-2633, WINDOW ENGRAVING MAIN CONTROL ROOM ANNUNCIATOR PANELS 902-7, 902-8 & 923-5
- 6) 12E-2659A, WIRING DIAGRAM 480V SWGR. BUS 27 SECTIONS 271, 272 & 273
- 7) 12E-2678, WIRING DIAGRAM 480V SWGR. BUS 25 SECTIONS 254, 255 & 256
- 8) 12E-2486-3, SCHEMATIC DIAGRAM REACTOR PROTECTION SYSTEM ALARMS & COMPUTER INPUTS
- 9) 12E-2620, WIRING DIAGRAM TURBINE END EQUIPMENT, HYDRAULIC POWER UNIT.
- 10) 12E-2659A, WIRING & SCHEMATIC DIAGRAM TURBINE BLDG. 480V MCC. 27-1
- 11) 12E-2399B, SCHEMATIC DIAGRAM ELECTRO-HYDRAULIC CONTROL SYSTEM PART 4 ALARM & TRIP
- 12) 12E-25759F & 80, SCHEMATIC DIAGRAM MAIN CONTROL ROOM ANNUNCIATOR PANEL 902-7

LEGEND: ○ - INSTRUMENT CALIBRATION POINT

LICENSE RENEWAL BOUNDARY

REV	DATE	DESCRIPTION	PREP.	REVL.	APPR.
1	EDSF	EC DCP 000030614	EDSF	EDSF	EDSF

Exelon
Nuclear
Division Station 17 Unit 2

DIAGRAM OF TURBINE EHC FLUID PIPING UNIT 2

LR-DRE-2

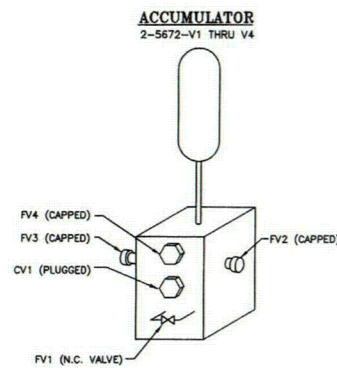
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SHEET NUMBER: 1 OF 1
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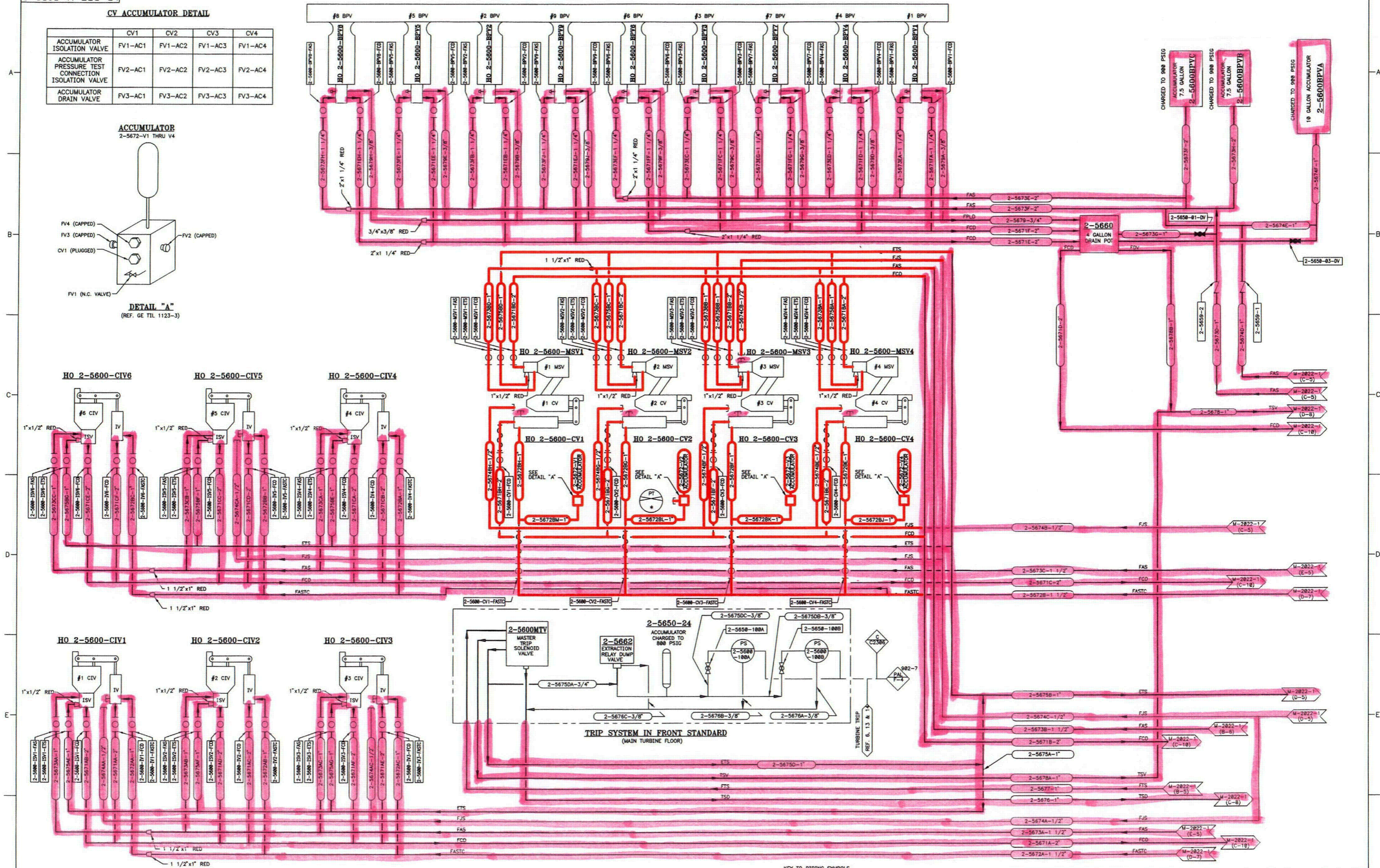
CRITICAL CONTROL ROOM DRAWING

CV ACCUMULATOR DETAIL

	CV1	CV2	CV3	CV4
ACCUMULATOR ISOLATION VALVE	FV1-AC1	FV1-AC2	FV1-AC3	FV1-AC4
ACCUMULATOR PRESSURE TEST CONNECTION ISOLATION VALVE	FV2-AC1	FV2-AC2	FV2-AC3	FV2-AC4
ACCUMULATOR DRAIN VALVE	FV3-AC1	FV3-AC2	FV3-AC3	FV3-AC4



DETAIL "A"
(REF. GE TIL 1123-3)



HO 2-5600-CIV6

HO 2-5600-CIV5

HO 2-5600-CIV4

HO 2-5600-CIV1

HO 2-5600-CIV2

HO 2-5600-CIV3

TRIP SYSTEM IN FRONT STANDARD
(MAIN TURBINE FLOOR)

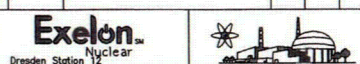
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— OUT OF SCOPE COMPONENTS

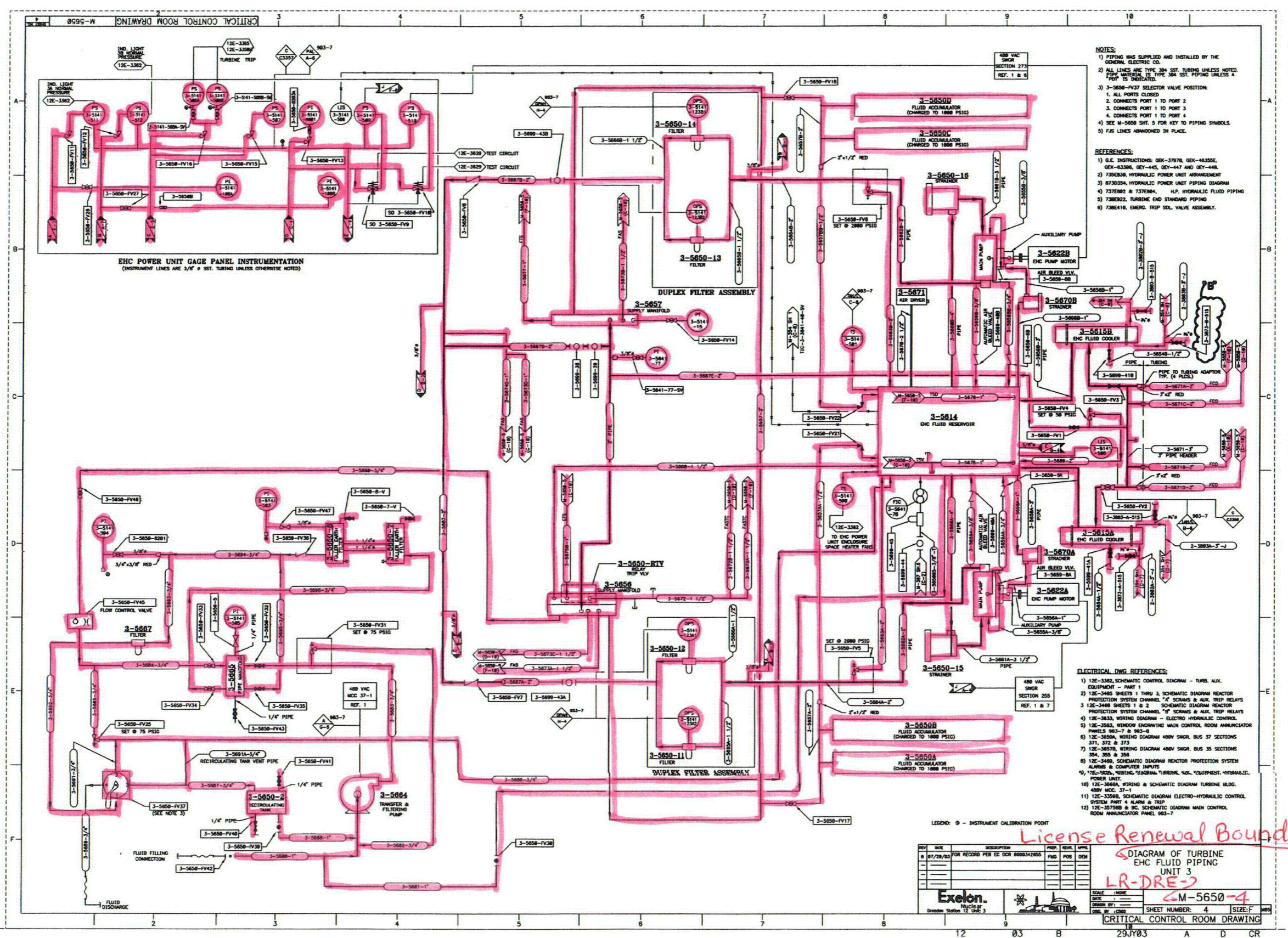
COMPONENT SYMBOLS
MSV - MASTER STOP VALVE
CV - CONTROL VALVE
FAS - BY-PASS CONTROL VALVE
CIV - COMBINED INTERMEDIATE VALVE
ISV - INTERMEDIATE STOP VALVE
IV - INTERCEPT VALVE
FV - FLUID VALVE

KEY TO PIPING SYMBOLS
FIS - FLUID TRIP SYSTEM SUPPLY
TSV - TRIP SYSTEM TRIP VALVE
TSD - TRIP SYSTEM DRAIN
ETS - 1000 PSI HYDRAULIC FLUID EMERGENCY TRIP SYSTEM
FAS - 1500 PSI HYDRAULIC FLUID JET SUPPLY
FSD - 8-50 PSI HYDRAULIC FLUID DRAIN TO COOLER
FDV - HYDRAULIC FLUID DRAIN VENT
FASTC - 1500 PSI HYDRAULIC FLUID ACTUATOR SUPPLY TRIP CONTROL
FPLD - HYDRAULIC FLUID PACKING LEAKOFF DRAIN

REV	DATE	DESCRIPTION	PREP.	REV.	APPR.
0	12/06/06	INITIAL ISSUE			

LICENSE RENEWAL BOUNDARY DIAGRAM OF TURBINE EHC FLUID PIPING UNIT 2

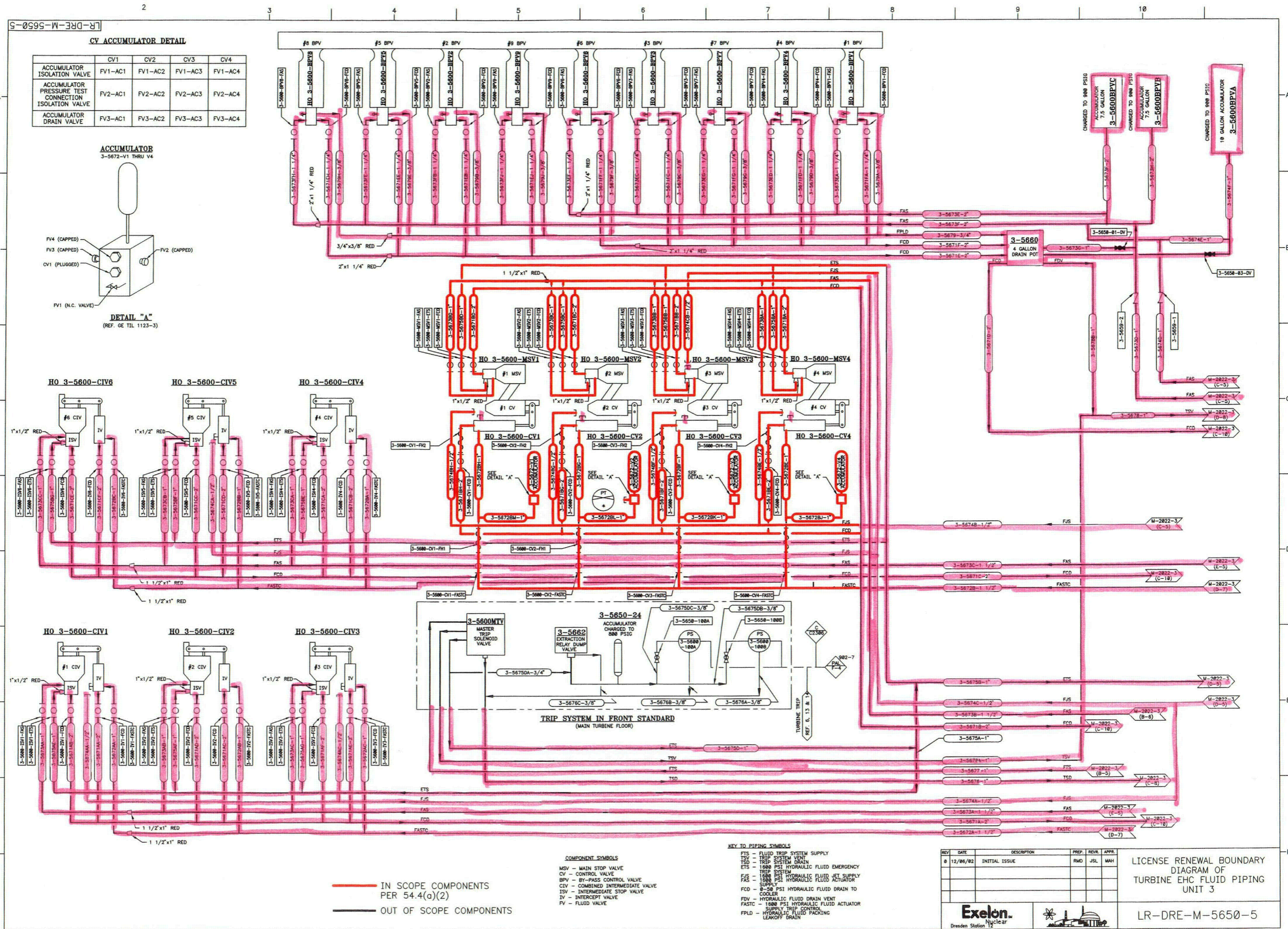




License Renewal Boundary

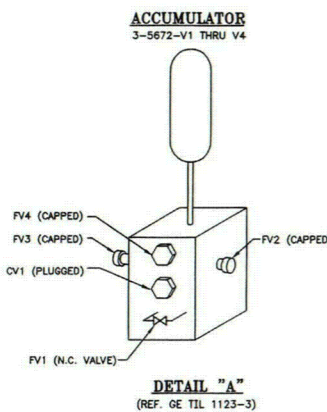
NO.	DATE	DESCRIPTION	PREP.	REV.	APPR.
01	07/29/83	FOR RECORD PER ICR 800834255	FUS	POS	DEB
02					
03					
04					
05					

SCALE: NONE
 DATE: 07/29/83
 DRAWN BY: FUS
 CHECKED BY: POS
 SHEET NUMBER: 4
 SIZE: F
 29JY03 A D CR



CV ACCUMULATOR DETAIL

	CV1	CV2	CV3	CV4
ACCUMULATOR ISOLATION VALVE	FV1-AC1	FV1-AC2	FV1-AC3	FV1-AC4
ACCUMULATOR PRESSURE TEST CONNECTION ISOLATION VALVE	FV2-AC1	FV2-AC2	FV2-AC3	FV2-AC4
ACCUMULATOR DRAIN VALVE	FV3-AC1	FV3-AC2	FV3-AC3	FV3-AC4



HO 3-5600-CIV6 HO 3-5600-CIV5 HO 3-5600-CIV4

HO 3-5600-CIV1 HO 3-5600-CIV2 HO 3-5600-CIV3

TRIP SYSTEM IN FRONT STANDARD
(MAIN TURBINE FLOOR)

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

COMPONENT SYMBOLS

- MSV - MAIN STOP VALVE
- CV - CONTROL VALVE
- BPV - BY-PASS CONTROL VALVE
- CIV - COMBINED INTERMEDIATE VALVE
- ISV - INTERMEDIATE STOP VALVE
- IV - INTERCEPT VALVE
- FV - FLUID VALVE

KEY TO PIPING SYMBOLS

- FIS - FLUID TRIP SYSTEM SUPPLY
- TSV - TRIP SYSTEM VENT
- TSI - TRIP SYSTEM DRAIN
- ETS - 1000 PSI HYDRAULIC FLUID EMERGENCY TRIP SYSTEM
- FAS - 1000 PSI HYDRAULIC FLUID JET SUPPLY
- FIS - 1000 PSI HYDRAULIC FLUID ACTUATOR SUPPLY
- FCD - 0-50 PSI HYDRAULIC FLUID DRAIN TO COOLER
- FDV - HYDRAULIC FLUID DRAIN VENT
- FASTC - 1000 PSI HYDRAULIC FLUID ACTUATOR SUPPLY TRIP CONTROL
- FPLD - HYDRAULIC FLUID PACKING LEAKOFF DRAIN

REV.	DATE	DESCRIPTION	PREP.	REV.	APP.
0	12/06/82	INITIAL ISSUE	RMD	JSL	MAH

Exelon Nuclear
Dresden Station 12

LICENSE RENEWAL BOUNDARY DIAGRAM OF TURBINE EHC FLUID PIPING UNIT 3

LR-DRE-M-5650-5