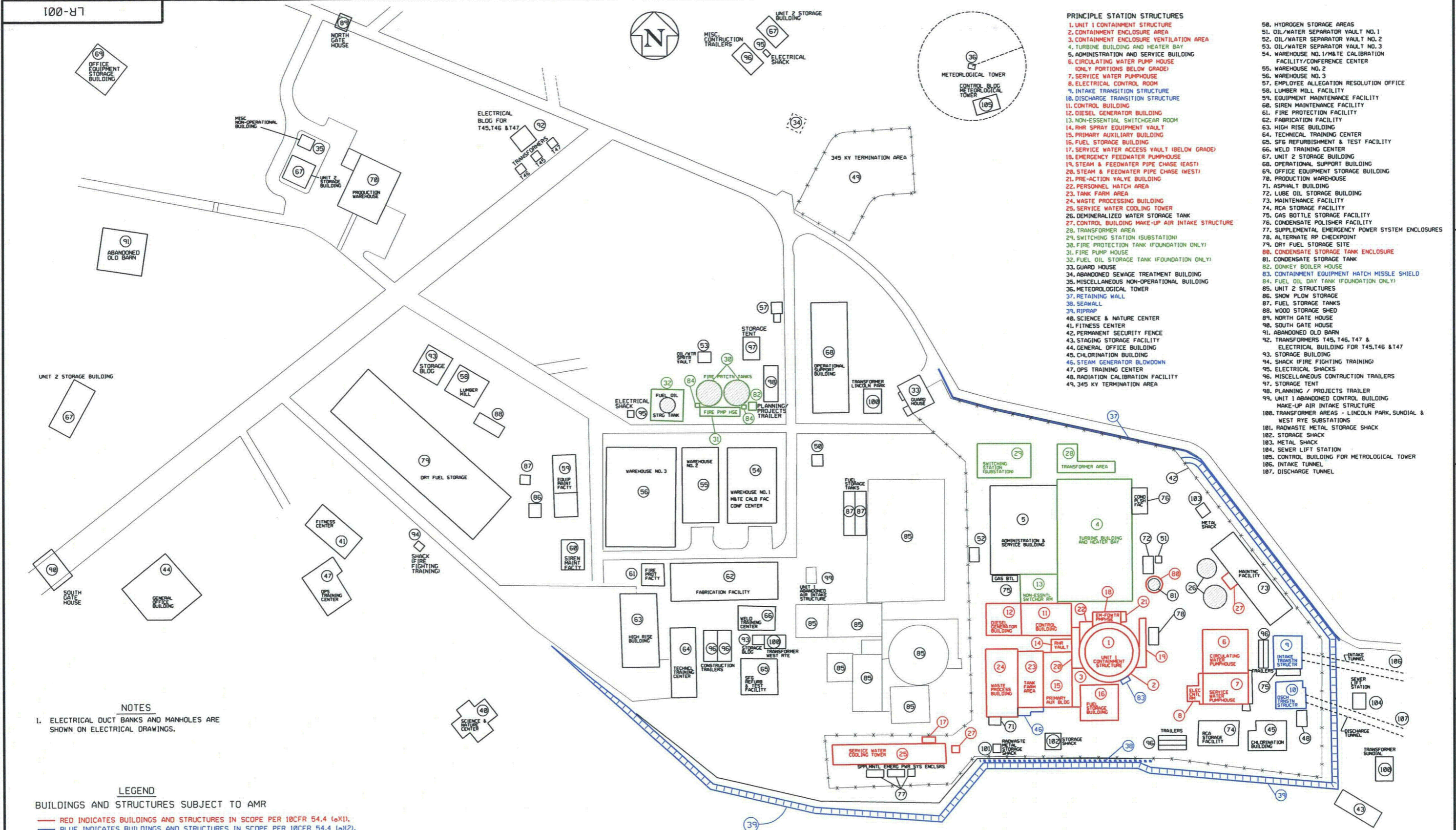




- PRINCIPLE STATION STRUCTURES**
1. UNIT 1 CONTAINMENT STRUCTURE
 2. CONTAINMENT ENCLOSURE AREA
 3. CONTAINMENT ENCLOSURE VENTILATION AREA
 4. TURBINE BUILDING AND HEATER BAY
 5. ADMINISTRATION AND SERVICE BUILDING
 6. CIRCULATING WATER PUMP HOUSE (ONLY PORTIONS BELOW GRADE)
 7. SERVICE WATER PUMPHOUSE
 8. ELECTRICAL CONTROL ROOM
 9. INTAKE TRANSITION STRUCTURE
 10. DISCHARGE TRANSITION STRUCTURE
 11. CONTROL BUILDING
 12. DIESEL GENERATOR BUILDING
 13. NON-ESSENTIAL SWITCHGEAR ROOM
 14. RHR SPRAY EQUIPMENT VAULT
 15. PRIMARY AUXILIARY BUILDING
 16. FUEL STORAGE BUILDING
 17. SERVICE WATER ACCESS VAULT (BELOW GRADE)
 18. EMERGENCY FEEDWATER PUMPHOUSE
 19. STEAM & FEEDWATER PIPE CHASE (EAST)
 20. STEAM & FEEDWATER PIPE CHASE (WEST)
 21. PRE-ACTION VALVE BUILDING
 22. PERSONNEL HATCH AREA
 23. TANK FARM AREA
 24. WASTE PROCESSING BUILDING
 25. SERVICE WATER COOLING TOWER
 26. DEMINERALIZED WATER STORAGE TANK
 27. CONTROL BUILDING MAKE-UP AIR INTAKE STRUCTURE
 28. TRANSFORMER AREA
 29. SWITCHING STATION (SUBSTATION)
 30. FIRE PROTECTION TANK (FOUNDATION ONLY)
 31. FIRE PUMP HOUSE
 32. FUEL OIL STORAGE TANK (FOUNDATION ONLY)
 33. GUARD HOUSE
 34. ABANDONED SEWAGE TREATMENT BUILDING
 35. MISCELLANEOUS NON-OPERATIONAL BUILDING
 36. METEOROLOGICAL TOWER
 37. RETAINING WALL
 38. SEAWALL
 39. RIPRAP
 40. SCIENCE & NATURE CENTER
 41. FITNESS CENTER
 42. PERMANENT SECURITY FENCE
 43. STAGING STORAGE FACILITY
 44. GENERAL OFFICE BUILDING
 45. CHLORINATION BUILDING
 46. STEAM GENERATOR BLDW/DOWN
 47. OPS TRAINING CENTER
 48. RADIATION CALIBRATION FACILITY
 49. 345 KV TERMINATION AREA
 50. HYDROGEN STORAGE AREAS
 51. OIL/WATER SEPARATOR VAULT NO. 1
 52. OIL/WATER SEPARATOR VAULT NO. 2
 53. OIL/WATER SEPARATOR VAULT NO. 3
 54. WAREHOUSE NO. 1/WATE CALIBRATION FACILITY/CONFERENCE CENTER
 55. WAREHOUSE NO. 2
 56. WAREHOUSE NO. 3
 57. EMPLOYEE ALLEGATION RESOLUTION OFFICE
 58. LUMBER MILL FACILITY
 59. EQUIPMENT MAINTENANCE FACILITY
 60. SIREN MAINTENANCE FACILITY
 61. FIRE PROTECTION FACILITY
 62. FABRICATION FACILITY
 63. HIGH RISE BUILDING
 64. TECHNICAL TRAINING CENTER
 65. SFS REFURBISHMENT & TEST FACILITY
 66. WELD TRAINING CENTER
 67. UNIT 2 STORAGE BUILDING
 68. OPERATIONAL SUPPORT BUILDING
 69. OFFICE EQUIPMENT STORAGE BUILDING
 70. PRODUCTION WAREHOUSE
 71. ASPHALT BUILDING
 72. LUBE OIL STORAGE BUILDING
 73. MAINTENANCE FACILITY
 74. RCA STORAGE FACILITY
 75. GAS BOTTLE STORAGE FACILITY
 76. CONDENSATE POLISHER FACILITY
 77. SUPPLEMENTAL EMERGENCY POWER SYSTEM ENCLOSURES
 78. ALTERNATE RP CHECKPOINT
 79. DRY FUEL STORAGE SITE
 80. CONDENSATE STORAGE TANK ENCLOSURE
 81. CONDENSATE STORAGE TANK
 82. DONKEY BOILER HOUSE
 83. CONTAINMENT EQUIPMENT HATCH MISSILE SHIELD
 84. FUEL OIL DAY TANK (FOUNDATION ONLY)
 85. UNIT 2 STRUCTURES
 86. SNOW PLOW STORAGE
 87. FUEL STORAGE TANKS
 88. WOOD STORAGE SHED
 89. NORTH GATE HOUSE
 90. SOUTH GATE HOUSE
 91. ABANDONED OLD BARN
 92. TRANSFORMERS T45, T46, T47 & T48
 93. STORAGE BUILDING
 94. SHACK (FIRE FIGHTING TRAINING)
 95. ELECTRICAL SHACKS
 96. MISCELLANEOUS CONSTRUCTION TRAILERS
 97. STORAGE TENT
 98. PLANNING / PROJECTS TRAILER
 99. UNIT 1 ABANDONED CONTROL BUILDING MAKE-UP AIR INTAKE STRUCTURE
 100. TRANSFORMER AREAS - LINCOLN PARK, SUNDIAL & WEST RYE SUBSTATIONS
 101. RADWASTE METAL STORAGE SHACK
 102. STORAGE SHACK
 103. METAL SHACK
 104. SEWER LIFT STATION
 105. CONTROL BUILDING FOR METEOROLOGICAL TOWER
 106. INTAKE TUNNEL
 107. DISCHARGE TUNNEL



NOTES

1. ELECTRICAL DUCT BANKS AND MANHOLES ARE SHOWN ON ELECTRICAL DRAWINGS.

LEGEND
 BUILDINGS AND STRUCTURES SUBJECT TO AMR

- RED INDICATES BUILDINGS AND STRUCTURES IN SCOPE PER 10CFR 54.4 (a)(1).
- BLUE INDICATES BUILDINGS AND STRUCTURES IN SCOPE PER 10CFR 54.4 (a)(2).
- GREEN INDICATES BUILDINGS AND STRUCTURES IN SCOPE PER 10CFR 54.4 (a)(3).
- BLACK INDICATES BUILDINGS AND STRUCTURES NOT SUBJECT TO AMR.

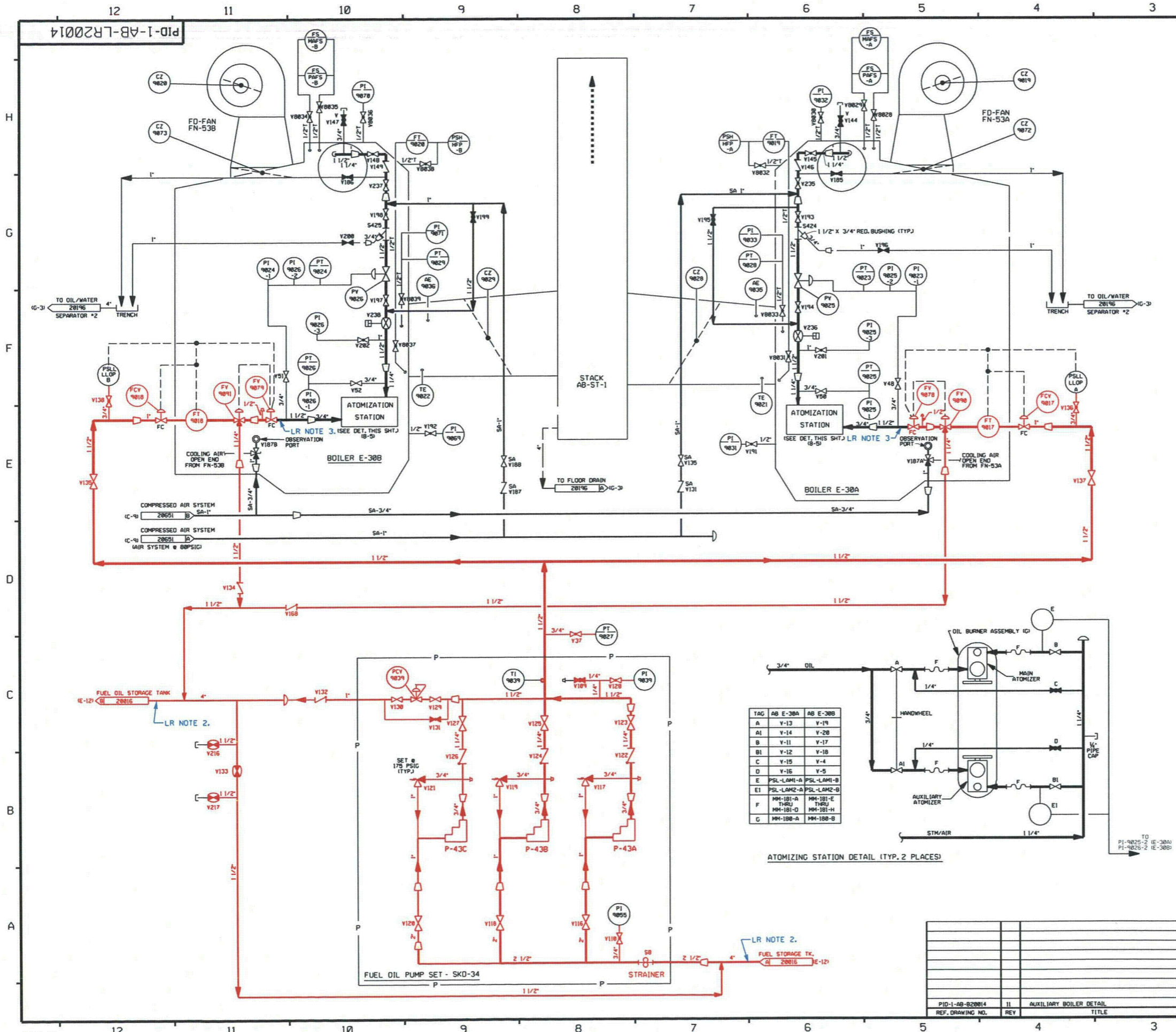
Seabrook Station

FACILITIES PLAN BOUNDARY LICENSE RENEWAL DRAWING

LR-001

REV	DATE	DRWN	CHKD	CE	ORIGINAL ISSUE	DESCRIPTION

PID-1-AB-LR20014



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

- LR NOTES:
- COMPONENTS IN BLACK ARE LOCATED IN AN AREA WHERE NO SAFETY RELATED COMPONENTS ARE LOCATED.
 - COMPONENTS HIGHLIGHTED IN RED ARE IN LICENSE RENEWAL (LR) SCOPE AS CRITERION (a)(3) FIRE PROTECTION.
 - FV-9078 & FV-9079 ARE NORMALLY CLOSED BASED ON OPERATING PROCEDURES, SO PIPING COMPONENTS DOWNSTREAM OF THE CLOSED VALVES HAVE NO LR INTENDED FUNCTION AND COMPONENTS ARE NOT IN SCOPE.

COMPONENTS SUBJECT TO AMR
 RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
 BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
 GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

▲ PIPE ANCHOR
 ◆ INDICATES SYSTEM BOUNDARY INTERFACE

- NOTES:
- WORK THIS DRAWING WITH DRAWINGS 20012, 20015, AND 20016
 - ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION HAVE SYSTEM PREFIX AB, UNLESS NOTED OTHERWISE.
 - ALL EQUIPMENT IN THIS SYSTEM IS SAFETY CLASS MMS

TAG	AB E-30A	AB E-30B
A	Y-13	Y-19
A1	Y-14	Y-20
B	Y-11	Y-17
B1	Y-12	Y-18
C	Y-15	Y-4
D	Y-16	Y-5
E	PSL-LAM1-A	PSL-LAM1-B
E1	PSL-LAM2-A	PSL-LAM2-B
F	MM-101-A THRU MM-101-D	MM-101-E THRU MM-101-H
G	MM-100-A	MM-100-B

ATOMIZING STATION DETAIL (TYP. 2 PLACES)

REV	DATE	DSGN	CHKD	CE	DESCRIPTION

ORIGINAL ISSUE

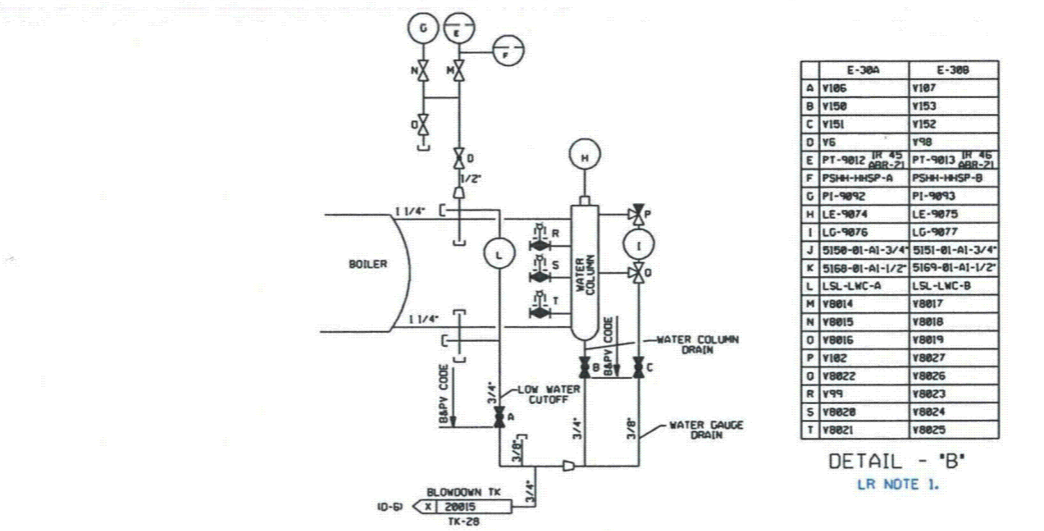
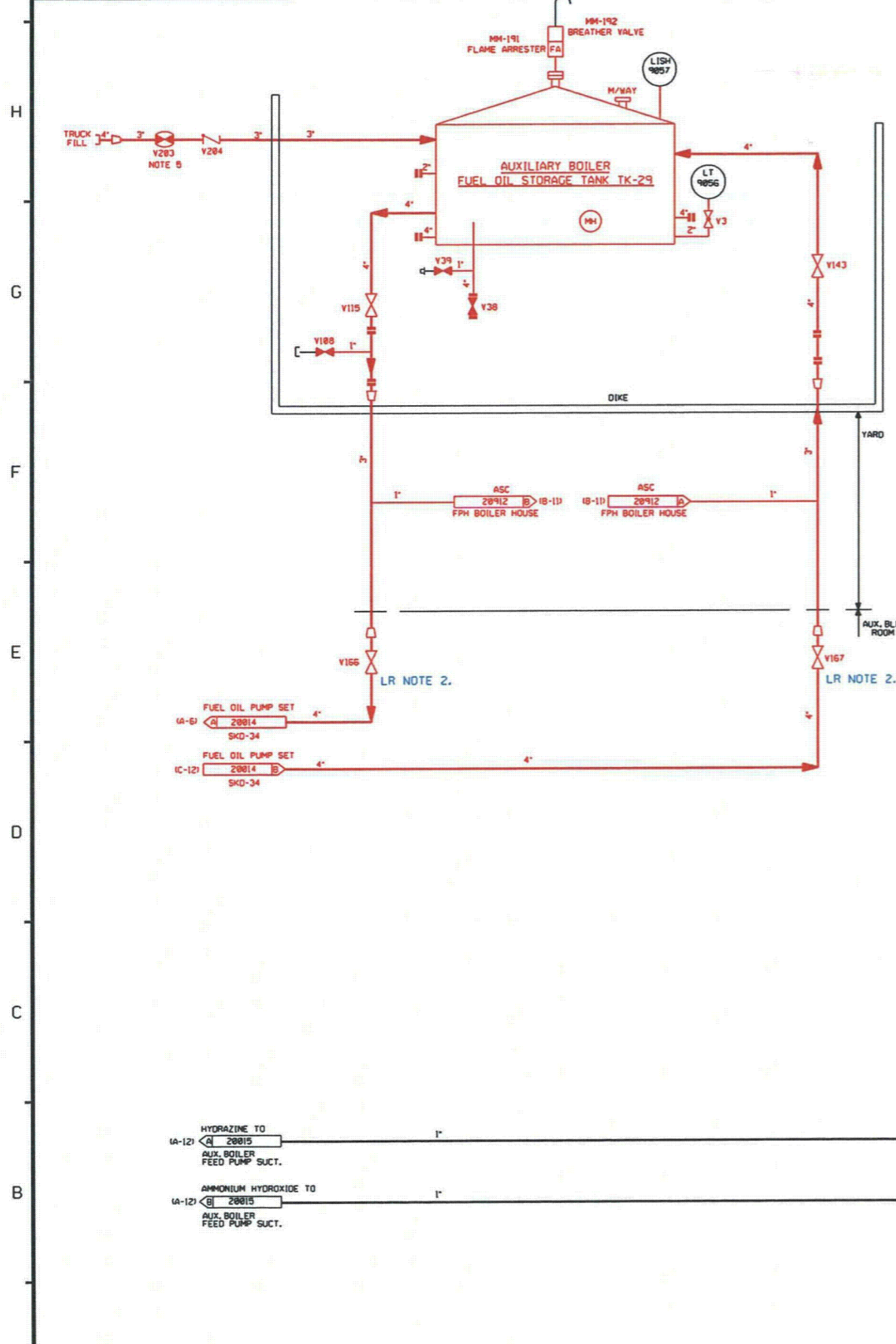
NEXTERA ENERGY
SEABROOK

AUXILIARY BOILER
DETAIL
LICENSE RENEWAL P&ID

PID- 1-AB-LR20014

REF. DRAWING NO.	REV	TITLE
PID-1-AB-20014	II	AUXILIARY BOILER DETAIL

PID-1-AB-LR20016



E-30A	E-30B
A Y106	Y107
B Y108	Y153
C Y191	Y152
D Y8	Y98
E PT-9812 RT 45	PT-9813 RT 45
F PSH-145P-A	PSM-145P-B
G PI-9892	PI-9893
H LE-9874	LE-9875
I LG-9876	LG-9877
J S159-01-A1-3/4"	S151-01-A1-3/4"
K S168-01-A1-1/2"	S169-01-A1-1/2"
L LSL-LWC-A	LSL-LWC-B
M Y8014	Y8017
N Y8015	Y8018
O Y8016	Y8019
P Y102	Y8027
Q Y8022	Y8026
R Y99	Y8023
S Y8028	Y8024
T Y8021	Y8025

DETAIL - 'B'
LR NOTE 1.

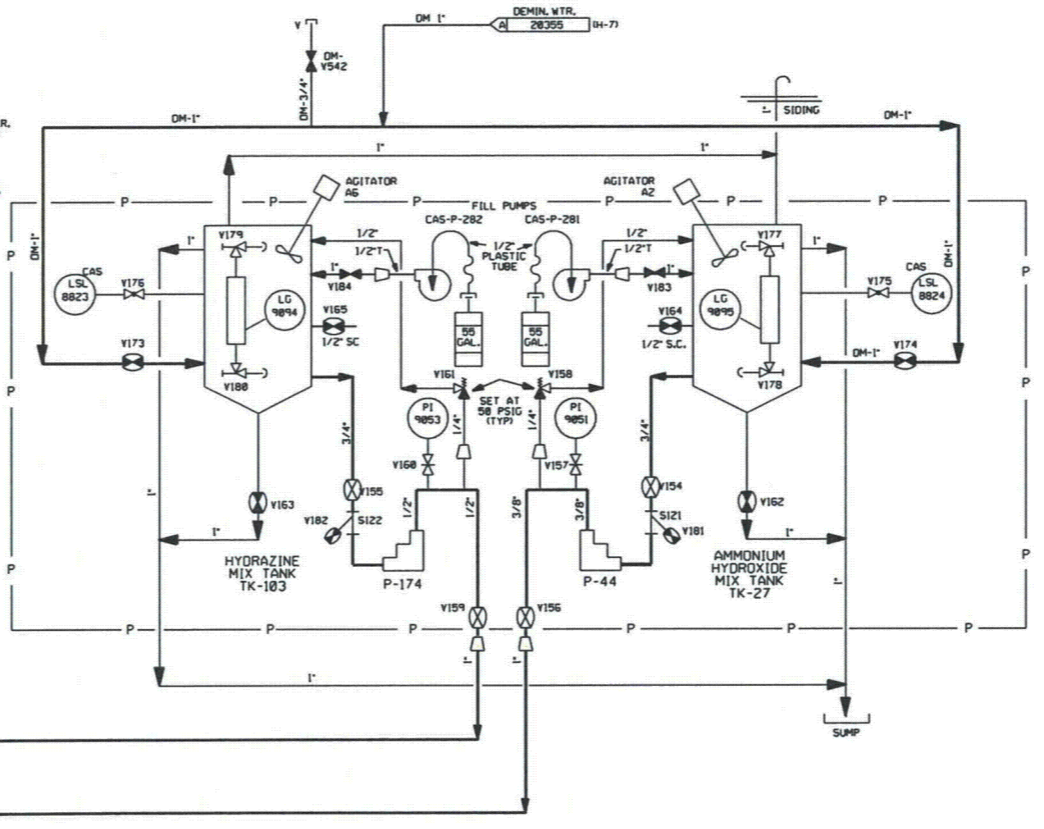
FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

- LR NOTES:
- COMPONENTS IN BLACK ARE LOCATED IN AN AREA WHERE NO SAFETY RELATED COMPONENTS ARE LOCATED.
 - COMPONENTS HIGHLIGHTED IN RED ARE IN LICENSE RENEWAL (LR) SCOPE AS CRITERION (a)(3) FIRE PROTECTION (FP).

COMPONENTS SUBJECT TO AMR
RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

- ▲ PIPE ANCHOR
- ◇ INDICATES SYSTEM BOUNDARY INTERFACE

- NOTES:
- WORK THIS DRAWING WITH DRAWINGS 20012, 20014, AND 20015.
 - ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX AB, UNLESS NOTED OTHERWISE.
 - ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS INS, UNLESS NOTED OTHERWISE.
 - △ INDICATES REVISION LEVEL
 - BALL VALVE INSTALLED WITH FLOW ARROW TOWARDS TRUCK FILL. BALL IS VENTED BACK TO TANK.



CHEMICAL FEED EQUIPMENT SKD-35
LR NOTE 1.

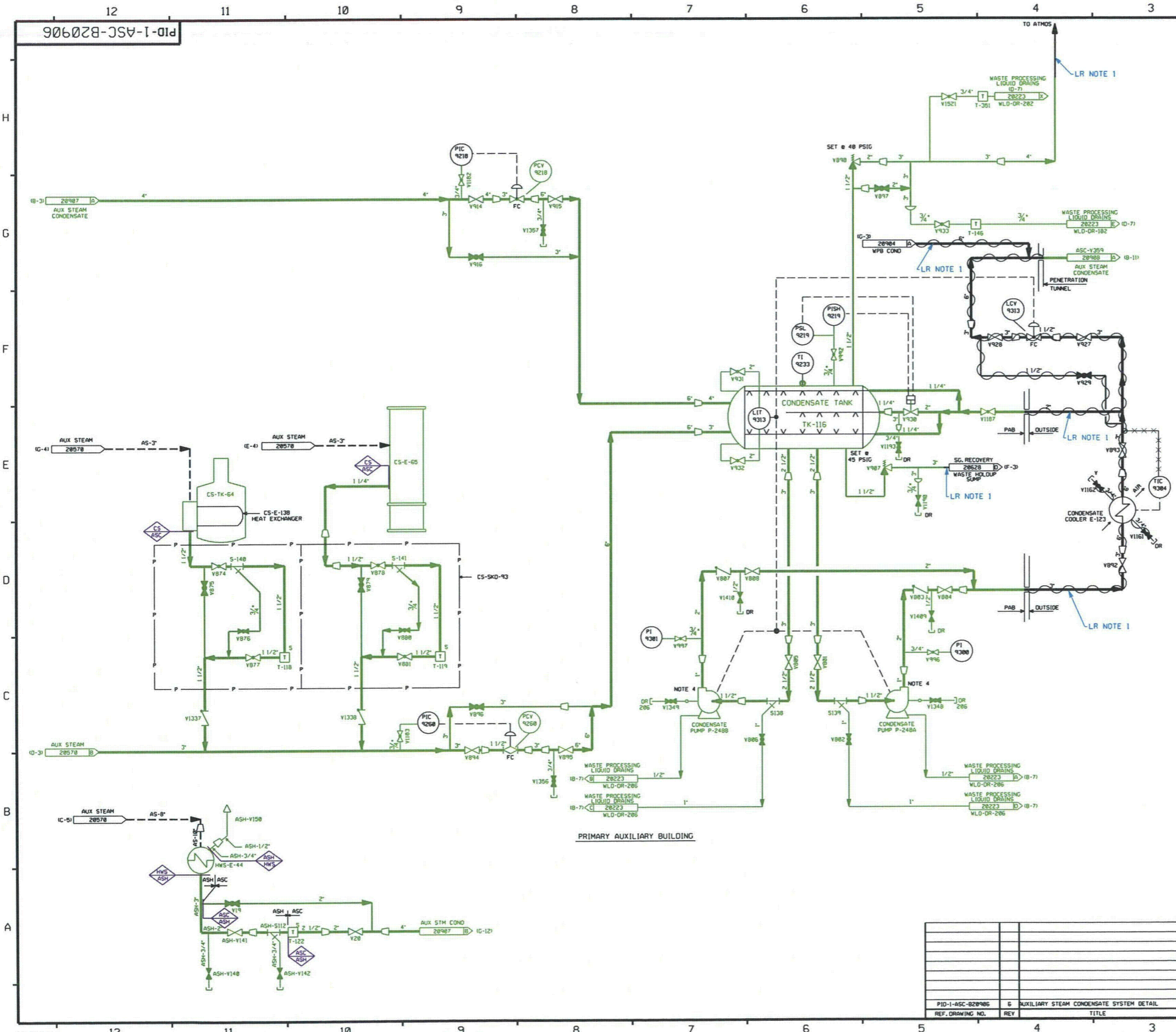
REV	DATE	DSGN	CHKD	CE	DESCRIPTION
0					ORIGINAL ISSUE



AUXILIARY BOILER
 DETAIL
 LICENSE RENEWAL P&ID
 PID-1-AB-LR20016

REF. DRAWING NO.	REV	TITLE
PID-1-AB-020016	11	AUXILIARY BOILER DETAIL

906028-C5A-1-01d



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

LR NOTES:
 1. THE COMPONENTS LOCATED OUTSIDE THE PRIMARY AUXILIARY BUILDING HAVE NO LICENSE RENEWAL FUNCTION SO THEREFORE THEY ARE NOT IN SCOPE FOR LICENSE RENEWAL.
 2. HWS COMPONENTS ARE EVALUATED UNDER THE HW SYSTEM.

COMPONENTS SUBJECT TO AMR
RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.
▲ PIPE ANCHOR
◇ XXIX INDICATES SYSTEM BOUNDARY INTERFACE
 ASC - AUXILIARY STEAM CONDENSATE SYSTEM
 ASH - AUXILIARY STEAM HEATING SYSTEM
 CS - CHEMICAL & VOLUME CONTROL SYSTEM
 HWS - HOT WATER SUPPLY SYSTEM

NOTES:
 1. WORK THIS DWG WITH DWG 28988 THRU 28995, 28987 THRU 28913.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX ASC UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS HWS UNLESS NOTED OTHERWISE.
 4. SEE DWG. 28953 FOR MECHANICAL SEAL SUPPLY.
 5. ▲ INDICATES REVISION LEVEL.

REV	DATE	DSGN	CHKD	CE	DESCRIPTION

ORIGINAL ISSUE

NEXTERA ENERGY
SEABROOK

AUXILIARY STEAM CONDENSATE SYS
DETAIL
LICENSE RENEWAL P&ID

PID-1-ASC-LR20906

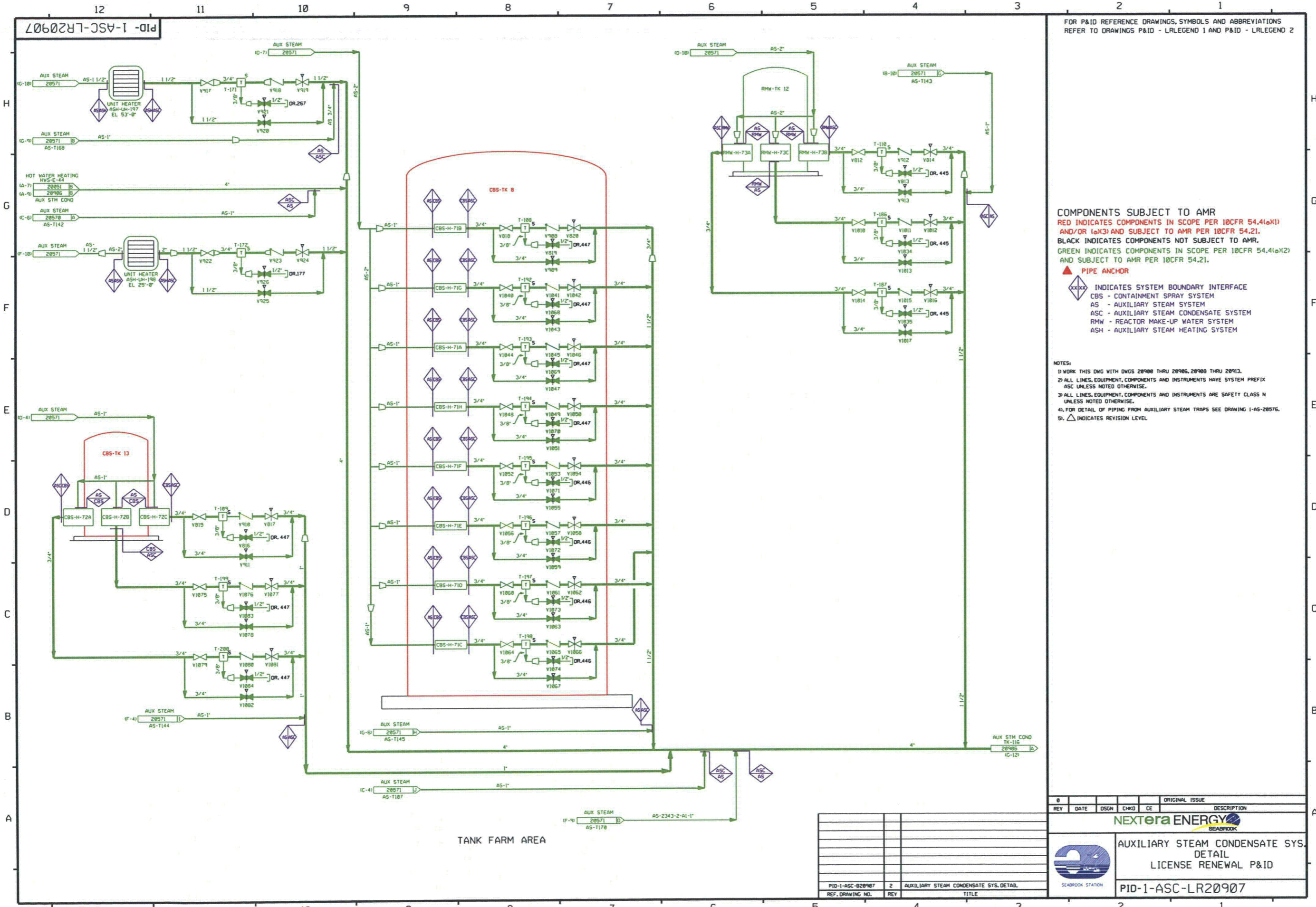


SEABROOK STATION

REF. DRAWING NO.	REV	TITLE
PID-1-ASC-82896	E	AUXILIARY STEAM CONDENSATE SYSTEM DETAIL

05/11/10

PID-1-ASC-LR20907



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

COMPONENTS SUBJECT TO AMR
RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

- ▲ PIPE ANCHOR
- ◇ INDICATES SYSTEM BOUNDARY INTERFACE
- CBS - CONTAINMENT SPRAY SYSTEM
- AS - AUXILIARY STEAM SYSTEM
- ASC - AUXILIARY STEAM CONDENSATE SYSTEM
- RMW - REACTOR MAKE-UP WATER SYSTEM
- ASH - AUXILIARY STEAM HEATING SYSTEM

- NOTES:**
- 1) WORK THIS DWG WITH DWGS 20908 THRU 20906, 20908 THRU 20913.
 - 2) ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX UNLESS NOTED OTHERWISE.
 - 3) ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS N UNLESS NOTED OTHERWISE.
 - 4) FOR DETAIL OF PIPING FROM AUXILIARY STEAM TRAPS SEE DRAWING I-AS-20576.
 - 5) △ INDICATES REVISION LEVEL.

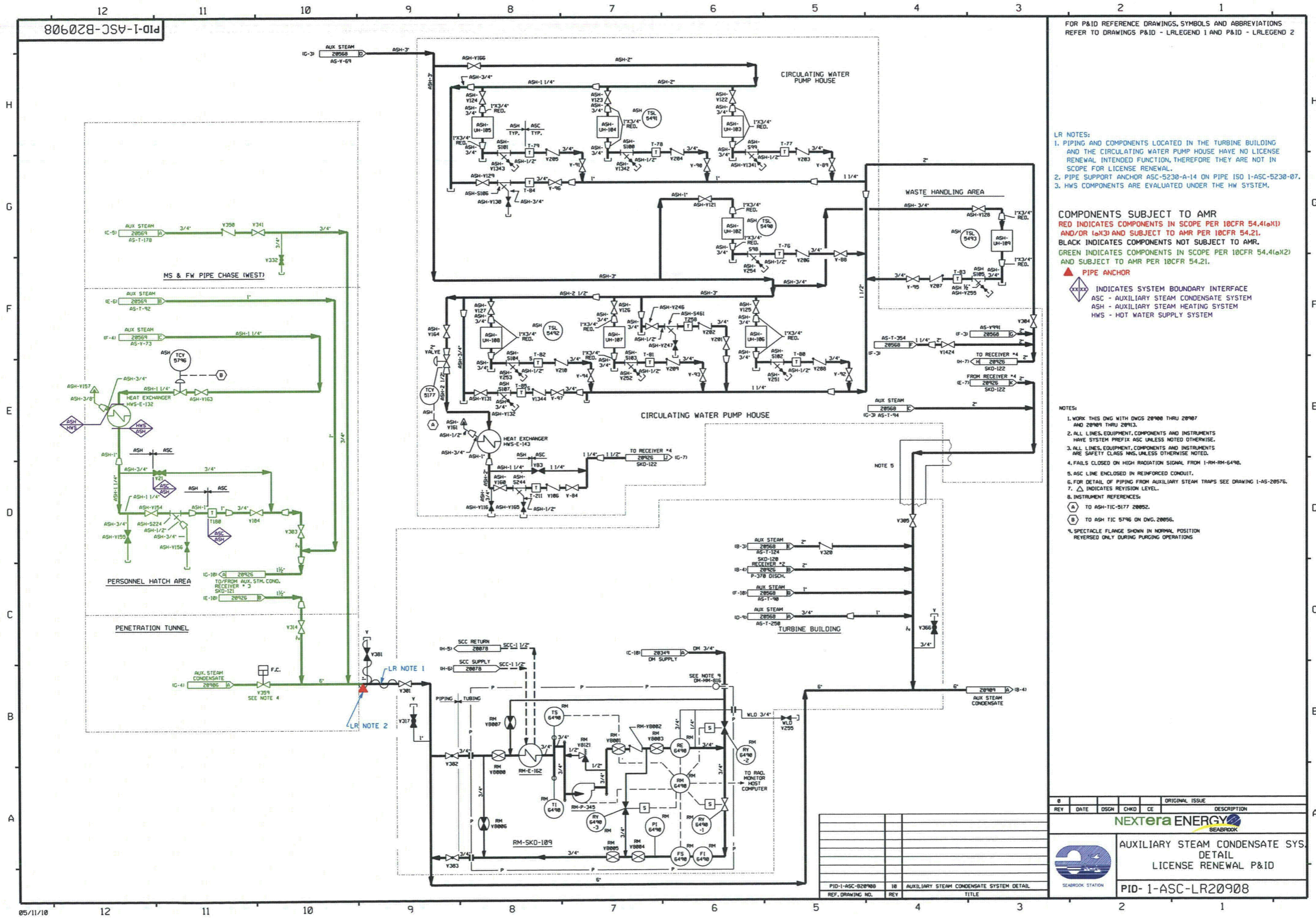
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0					ORIGINAL ISSUE
AUXILIARY STEAM CONDENSATE SYS. DETAIL LICENSE RENEWAL P&ID					
PID-1-ASC-LR20907					

REV	DATE	DESCRIPTION
1		
2		

05/11/10

TANK FARM AREA

PID-1-ASC-B29098



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

LR NOTES:
 1. PIPING AND COMPONENTS LOCATED IN THE TURBINE BUILDING AND THE CIRCULATING WATER PUMP HOUSE HAVE NO LICENSE RENEWAL INTENDED FUNCTION, THEREFORE THEY ARE NOT IN SCOPE FOR LICENSE RENEWAL.
 2. PIPE SUPPORT ANCHOR ASC-5230-A-14 ON PIPE 150 1-ASC-5230-07.
 3. HWS COMPONENTS ARE EVALUATED UNDER THE HW SYSTEM.

COMPONENTS SUBJECT TO AMR
 RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
 BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
 GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

▲ PIPE ANCHOR
 ◆ INDICATES SYSTEM BOUNDARY INTERFACE
 ASC - AUXILIARY STEAM CONDENSATE SYSTEM
 ASH - AUXILIARY STEAM HEATING SYSTEM
 HWS - HOT WATER SUPPLY SYSTEM

NOTES:
 1. WORK THIS DWG WITH DWGS 28908 THRU 28987 AND 28989 THRU 28913.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS UNLESS OTHERWISE NOTED.
 4. FAILS CLOSED ON HIGH RADIATION SIGNAL FROM 1-RM-RM-6498.
 5. ASC LINE ENCLOSED IN REINFORCED CONDUIT.
 6. FOR DETAIL OF PIPING FROM AUXILIARY STEAM TRAPS SEE DRAWING 1-AS-20576.
 7. ▲ INDICATES REVISION LEVEL.
 8. INSTRUMENT REFERENCES:
 (A) TO ASH-TIC-5177 20052.
 (B) TO ASH-TIC 5796 ON DWG. 20056.
 9. SPECTACLE FLANGE SHOWN IN NORMAL POSITION REVERSED ONLY DURING PURGING OPERATIONS

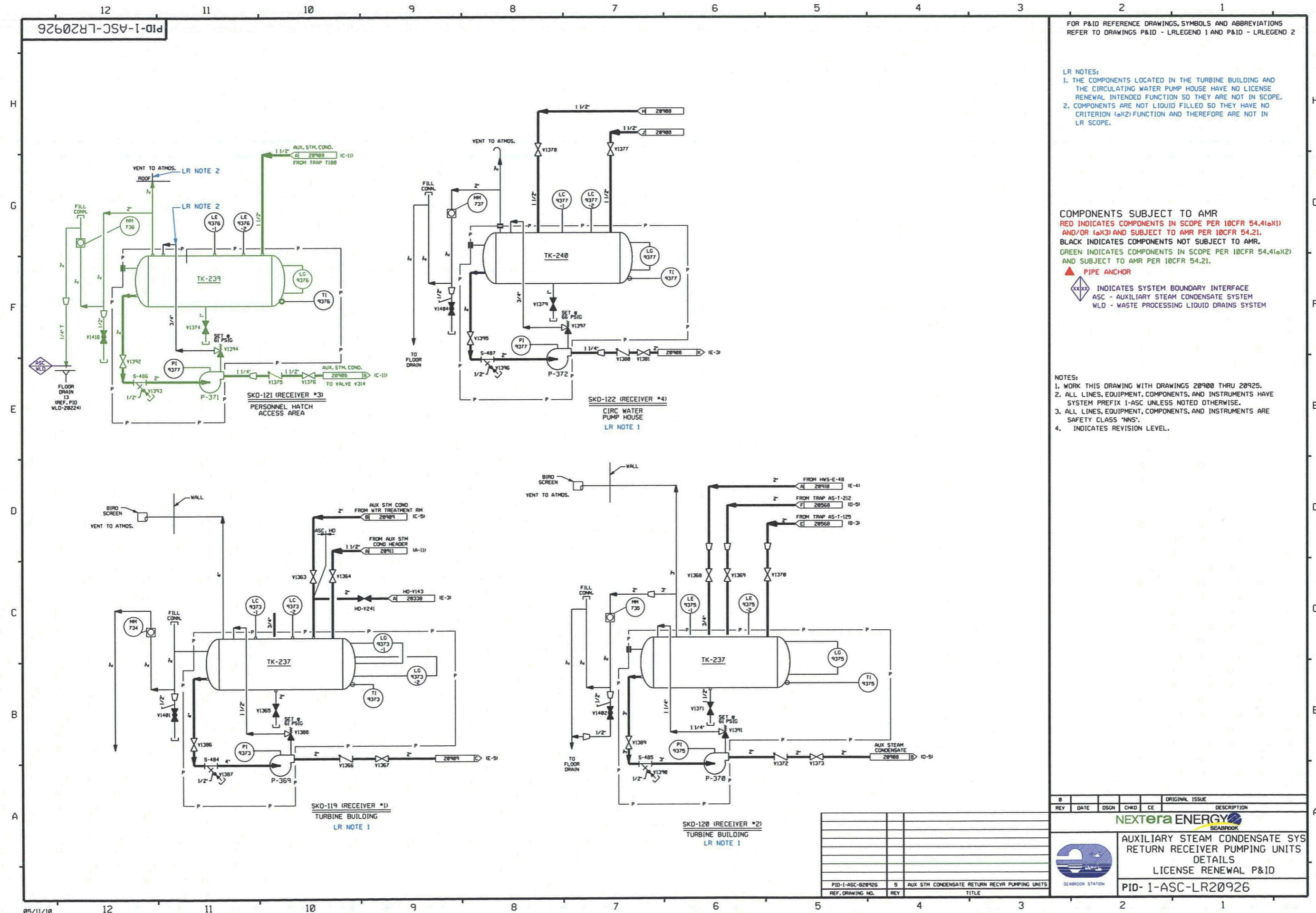
REV	DATE	DSGN	CHKD	CE	DESCRIPTION
0					ORIGINAL ISSUE
AUXILIARY STEAM CONDENSATE SYS. DETAIL LICENSE RENEWAL P&ID					
PID-1-ASC-LR20908					



PID-1-ASC-B29098
 REF. DRAWING NO. 18
 REV. 1
 TITLE: AUXILIARY STEAM CONDENSATE SYSTEM DETAIL

05/11/10

PID-1-ASC-LR20926



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

LR NOTES:
 1. THE COMPONENTS LOCATED IN THE TURBINE BUILDING AND THE CIRCULATING WATER PUMP HOUSE HAVE NO LICENSE RENEWAL INTENDED FUNCTION SO THEY ARE NOT IN SCOPE.
 2. COMPONENTS ARE NOT LIQUID FILLED SO THEY HAVE NO CRITERION (a)(2) FUNCTION AND THEREFORE ARE NOT IN LR SCOPE.

COMPONENTS SUBJECT TO AMR
 RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
 BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
 GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

▲ PIPE ANCHOR
 □□□□ INDICATES SYSTEM BOUNDARY INTERFACE
 ASC - AUXILIARY STEAM CONDENSATE SYSTEM
 WLD - WASTE PROCESSING LIQUID DRAINS SYSTEM

NOTES:
 1. WORK THIS DRAWING WITH DRAWINGS 20900 THRU 20925.
 2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX 1-ASC UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS ARE SAFETY CLASS "MNS".
 4. INDICATES REVISION LEVEL.

REV	DATE	DSGN	CHKD	CE	ORIGINAL ISSUE	DESCRIPTION

NEXTERA ENERGY
 SEABROOK

AUXILIARY STEAM CONDENSATE SYS
 RETURN RECEIVER PUMPING UNITS
 DETAILS
 LICENSE RENEWAL P&ID

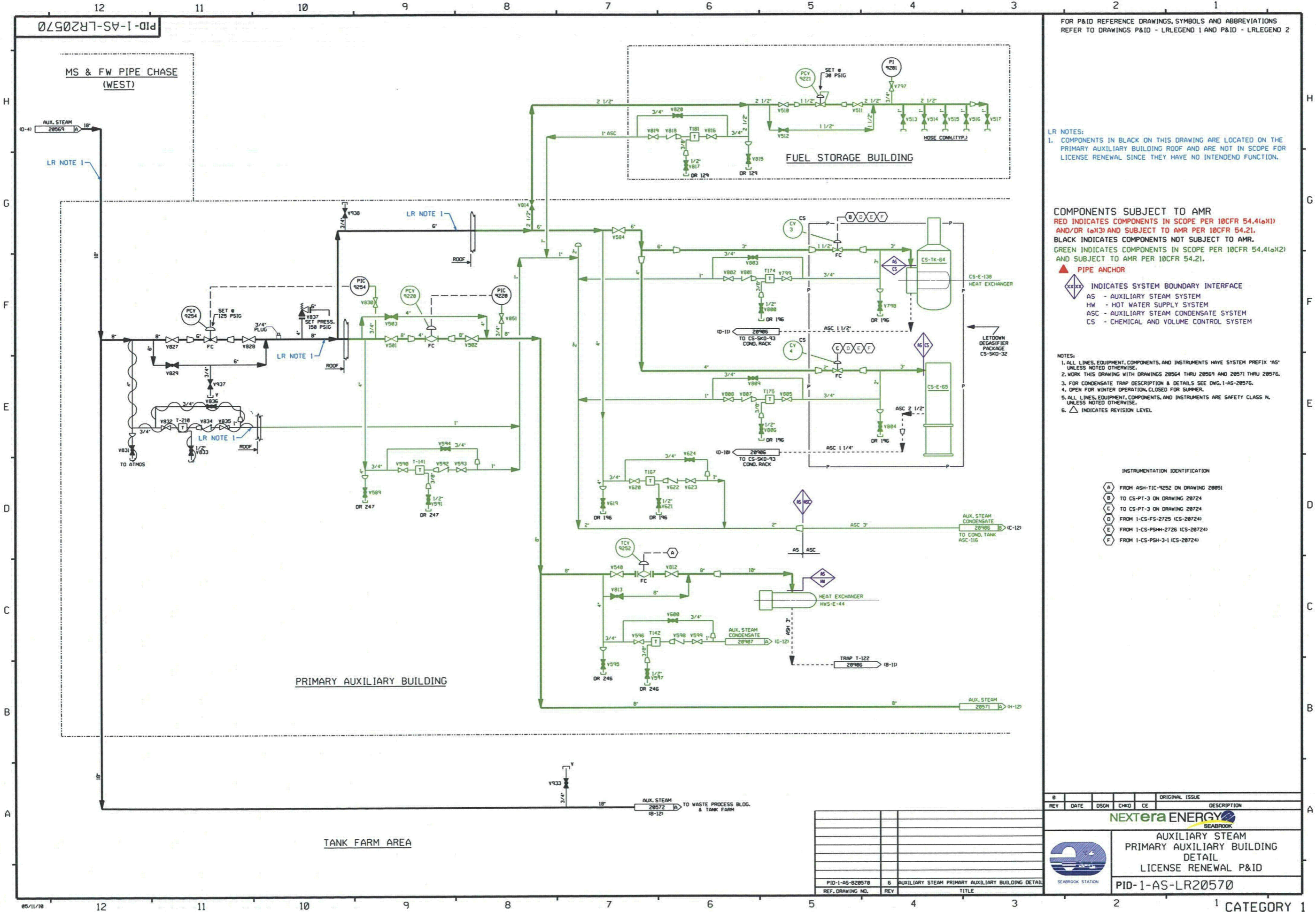
PID-1-ASC-LR20926



REF. DRAWING NO.	REV	TITLE
PID-1-ASC-20926	5	AUX STM CONDENSATE RETURN RECYR PUMPING UNITS

05/11/10

PID-1-AS-LR20570



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

LR NOTES:
 1. COMPONENTS IN BLACK ON THIS DRAWING ARE LOCATED ON THE PRIMARY AUXILIARY BUILDING ROOF AND ARE NOT IN SCOPE FOR LICENSE RENEWAL SINCE THEY HAVE NO INTENDEND FUNCTION.

COMPONENTS SUBJECT TO AMR
 RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
 BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
 GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

- ▲ PIPE ANCHOR
- ◊ INDICATES SYSTEM BOUNDARY INTERFACE
- AS - AUXILIARY STEAM SYSTEM
- HW - HOT WATER SUPPLY SYSTEM
- ASC - AUXILIARY STEAM CONDENSATE SYSTEM
- CS - CHEMICAL AND VOLUME CONTROL SYSTEM

NOTES:
 1. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX "AS" UNLESS NOTED OTHERWISE.
 2. WORK THIS DRAWING WITH DRAWINGS 20564 THRU 20569 AND 20571 THRU 20576.
 3. FOR CONDENSATE TRAP DESCRIPTION & DETAILS SEE DWG. 1-AS-20576.
 4. OPEN FOR WINTER OPERATION, CLOSED FOR SUMMER.
 5. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS ARE SAFETY CLASS N, UNLESS NOTED OTHERWISE.
 6. △ INDICATES REVISION LEVEL.

INSTRUMENTATION IDENTIFICATION

- (A) FROM ASH-TIC-9252 ON DRAWING 20051 TO CS-P1-3 ON DRAWING 20724
- (B) TO CS-P1-3 ON DRAWING 20724
- (C) TO CS-P1-3 ON DRAWING 20724
- (D) FROM 1-CS-FS-2725 (CS-20724)
- (E) FROM 1-CS-PSM-2726 (CS-20724)
- (F) FROM 1-CS-PSH-3-1 (CS-20724)

REV	DATE	DSGN	CHKD	CE	DESCRIPTION

NEXTERA ENERGY
SEABROOK

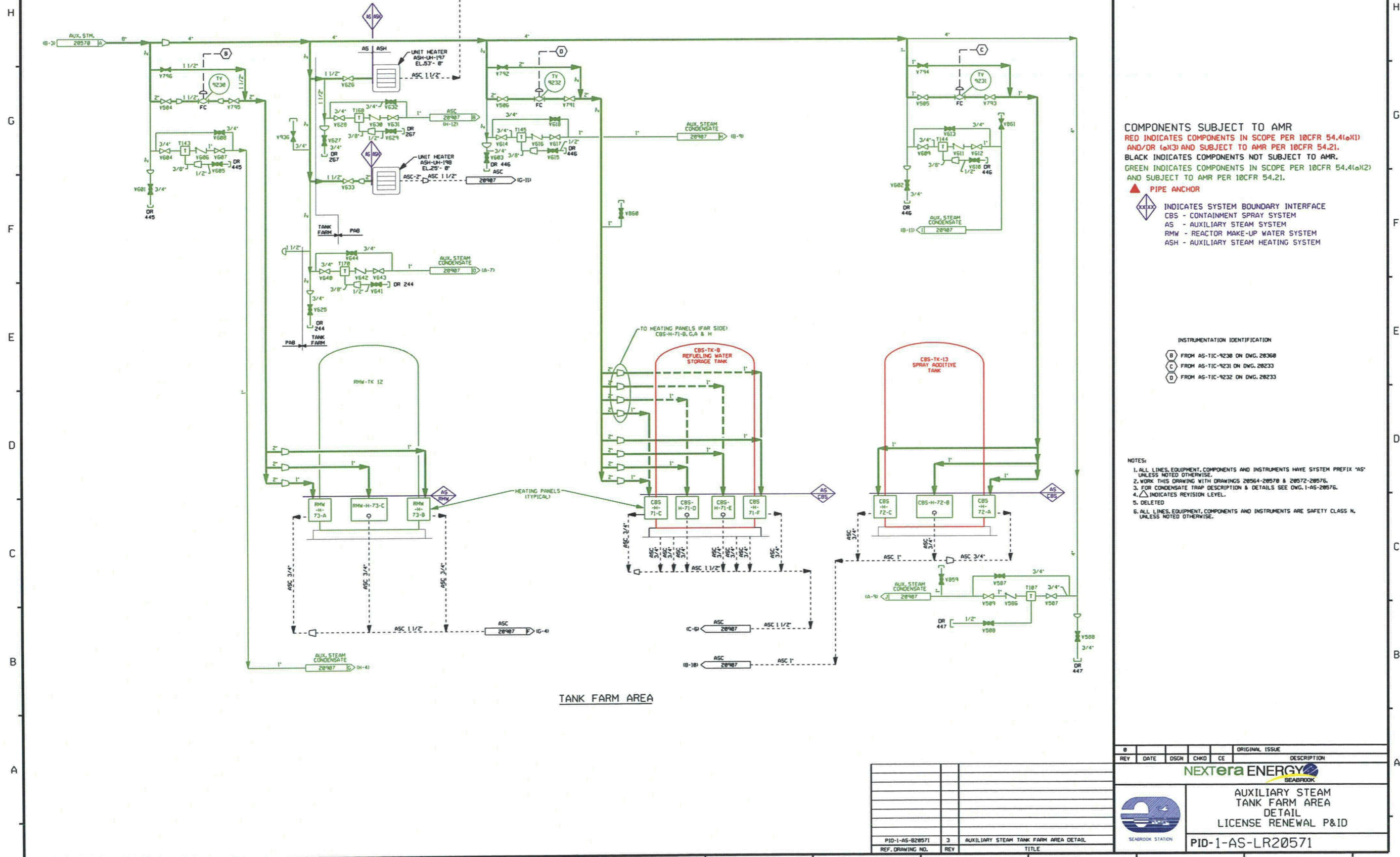
**AUXILIARY STEAM
PRIMARY AUXILIARY BUILDING
DETAIL
LICENSE RENEWAL P&ID**

PID-1-AS-LR20570

REF. DRAWING NO.	REV	TITLE
PID-1-AS-020570	6	AUXILIARY STEAM PRIMARY AUXILIARY BUILDING DETAIL

PID-1-AS-LR20571

FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2



COMPONENTS SUBJECT TO AMR
 RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
 BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
 GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

▲ PIPE ANCHOR

◇ INDICATES SYSTEM BOUNDARY INTERFACE

CBS - CONTAINMENT SPRAY SYSTEM
 AS - AUXILIARY STEAM SYSTEM
 RMW - REACTOR MAKE-UP WATER SYSTEM
 ASH - AUXILIARY STEAM HEATING SYSTEM

INSTRUMENTATION IDENTIFICATION

Ⓟ FROM AS-TIC-9230 ON DWG. 20360
 Ⓞ FROM AS-TIC-9231 ON DWG. 20233
 Ⓞ FROM AS-TIC-9232 ON DWG. 20233

NOTES:

1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX 'AS' UNLESS NOTED OTHERWISE.
2. WORK THIS DRAWING WITH DRAWINGS 20564-20570 & 20572-20576.
3. FOR CONDENSATE TRAP DESCRIPTION & DETAILS SEE DWG. I-AS-20576.
4. △ INDICATES REVISION LEVEL.
5. DELETED
6. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS N, UNLESS NOTED OTHERWISE.

TANK FARM AREA

REV	DATE	DSGN	CHKD	CE	DESCRIPTION

ORIGINAL ISSUE

NEXTERA ENERGY
SEABROOK

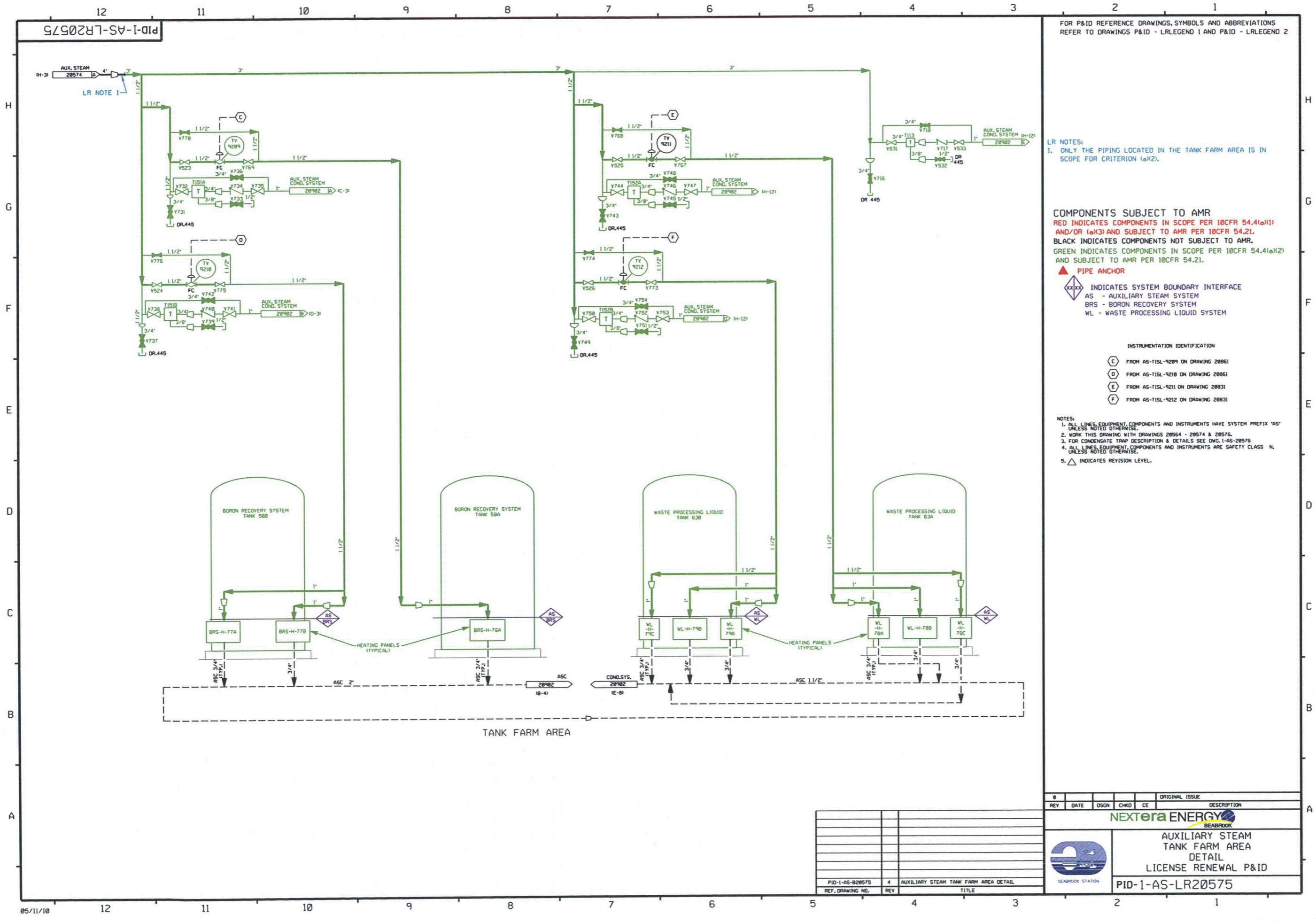
AUXILIARY STEAM
TANK FARM AREA
DETAIL
LICENSE RENEWAL P&ID

PID-1-AS-LR20571

REF. DRAWING NO.	REV	TITLE
PID-1-AS-020571	3	AUXILIARY STEAM TANK FARM AREA DETAIL



PID-1-AS-LR20575



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

LR NOTES:
1. ONLY THE PIPING LOCATED IN THE TANK FARM AREA IS IN SCOPE FOR CRITERION (a)(2).

COMPONENTS SUBJECT TO AMR
RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

- ▲ PIPE ANCHOR
- AS INDICATES SYSTEM BOUNDARY INTERFACE
- AS - AUXILIARY STEAM SYSTEM
- BRS - BORON RECOVERY SYSTEM
- WL - WASTE PROCESSING LIQUID SYSTEM

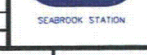
- INSTRUMENTATION IDENTIFICATION
- C FROM AS-TISL-9209 ON DRAWING 20851
 - D FROM AS-TISL-9210 ON DRAWING 20851
 - E FROM AS-TISL-9211 ON DRAWING 20831
 - F FROM AS-TISL-9212 ON DRAWING 20831

- NOTES:
1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX "AS" UNLESS NOTED OTHERWISE.
 2. WORK THIS DRAWING WITH DRAWINGS 20564 - 20574 & 20576.
 3. FOR CONDENSATE TRAP DESCRIPTION & DETAILS SEE DNG. 1-AS-20576.
 4. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS N, UNLESS NOTED OTHERWISE.
 5. △ INDICATES REVISION LEVEL.

REV	DATE	DSGN	CHKD	CE	DESCRIPTION

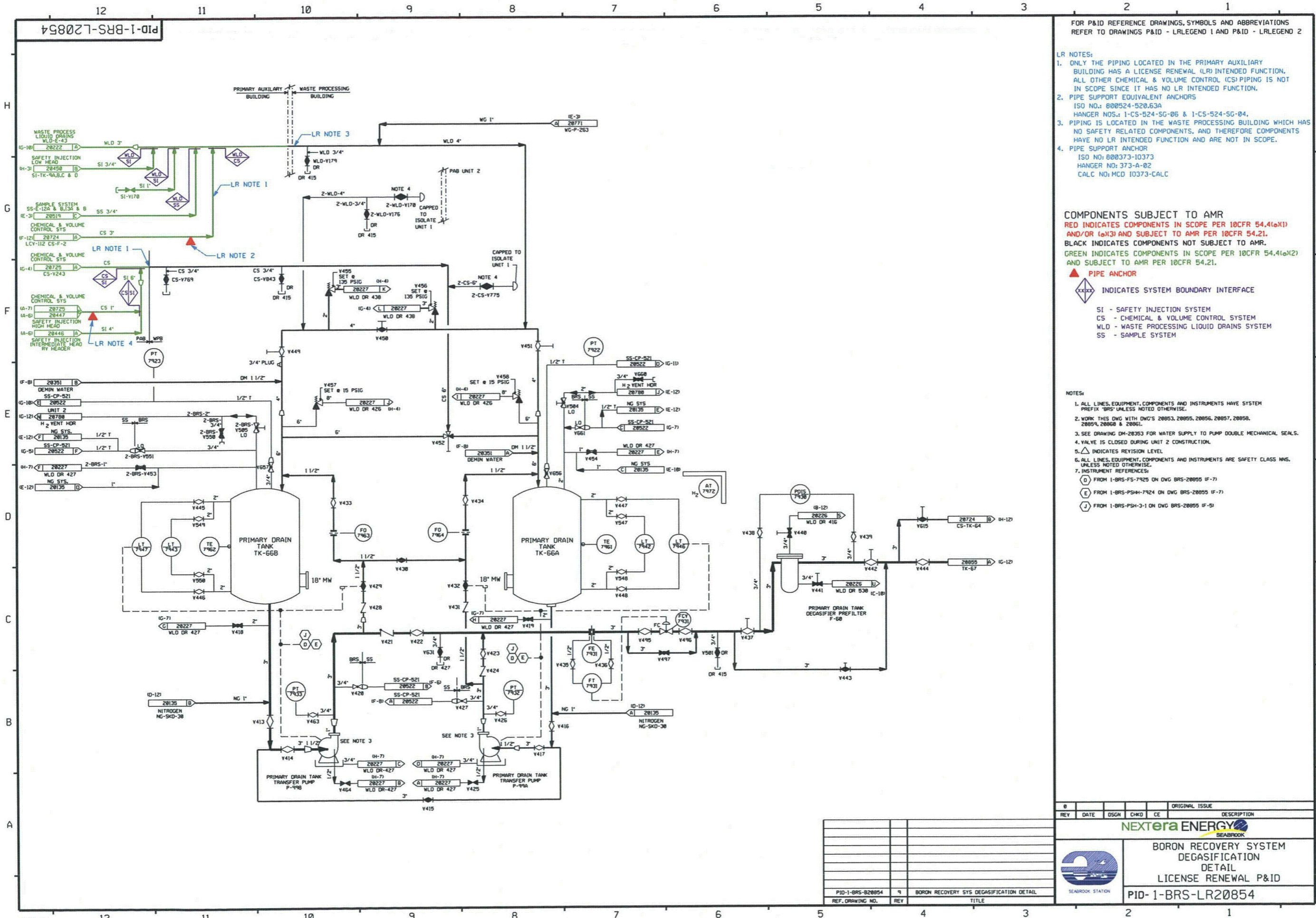
**AUXILIARY STEAM
TANK FARM AREA
DETAIL
LICENSE RENEWAL P&ID**

PID-1-AS-820575	4	AUXILIARY STEAM TANK FARM AREA DETAIL
REF. DRAWING NO.	REV	TITLE



PID-1-AS-LR20575

PID-1-BRS-LR20854



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

- LR NOTES:
- ONLY THE PIPING LOCATED IN THE PRIMARY AUXILIARY BUILDING HAS A LICENSE RENEWAL (LR) INTENDED FUNCTION. ALL OTHER CHEMICAL & VOLUME CONTROL (CV) PIPING IS NOT IN SCOPE SINCE IT HAS NO LR INTENDED FUNCTION.
 - PIPE SUPPORT EQUIVALENT ANCHORS
ISO NO.: 800524-520.63A
HANGER NOS.: 1-CS-524-SG-06 & 1-CS-524-SG-04.
 - PIPING IS LOCATED IN THE WASTE PROCESSING BUILDING WHICH HAS NO SAFETY RELATED COMPONENTS, AND THEREFORE COMPONENTS HAVE NO LR INTENDED FUNCTION AND ARE NOT IN SCOPE.
 - PIPE SUPPORT ANCHOR
ISO NO.: 800373-10373
HANGER NO.: 373-A-82
CALC NO.: MCD 10373-CALC

COMPONENTS SUBJECT TO AMR
RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

▲ PIPE ANCHOR
 ◆◆◆◆ INDICATES SYSTEM BOUNDARY INTERFACE

SI - SAFETY INJECTION SYSTEM
 CS - CHEMICAL & VOLUME CONTROL SYSTEM
 WLD - WASTE PROCESSING LIQUID DRAINS SYSTEM
 SS - SAMPLE SYSTEM

- NOTES:
- ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX 'BRS' UNLESS NOTED OTHERWISE.
 - WORK THIS DWG WITH DWG'S 20853, 20855, 20856, 20857, 20858, 20859, 20860 & 20861.
 - SEE DRAWING DM-28353 FOR WATER SUPPLY TO PUMP DOUBLE MECHANICAL SEALS.
 - VALVE IS CLOSED DURING UNIT 2 CONSTRUCTION.
 - △ INDICATES REVISION LEVEL
 - ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS MMS, UNLESS NOTED OTHERWISE.
 - INSTRUMENT REFERENCES:
 (D) FROM 1-BRS-PS-7925 ON DWG BRS-20855 (F-7)
 (E) FROM 1-BRS-PSH-7924 ON DWG BRS-20855 (F-7)
 (J) FROM 1-BRS-PSH-3-1 ON DWG BRS-20855 (F-5)

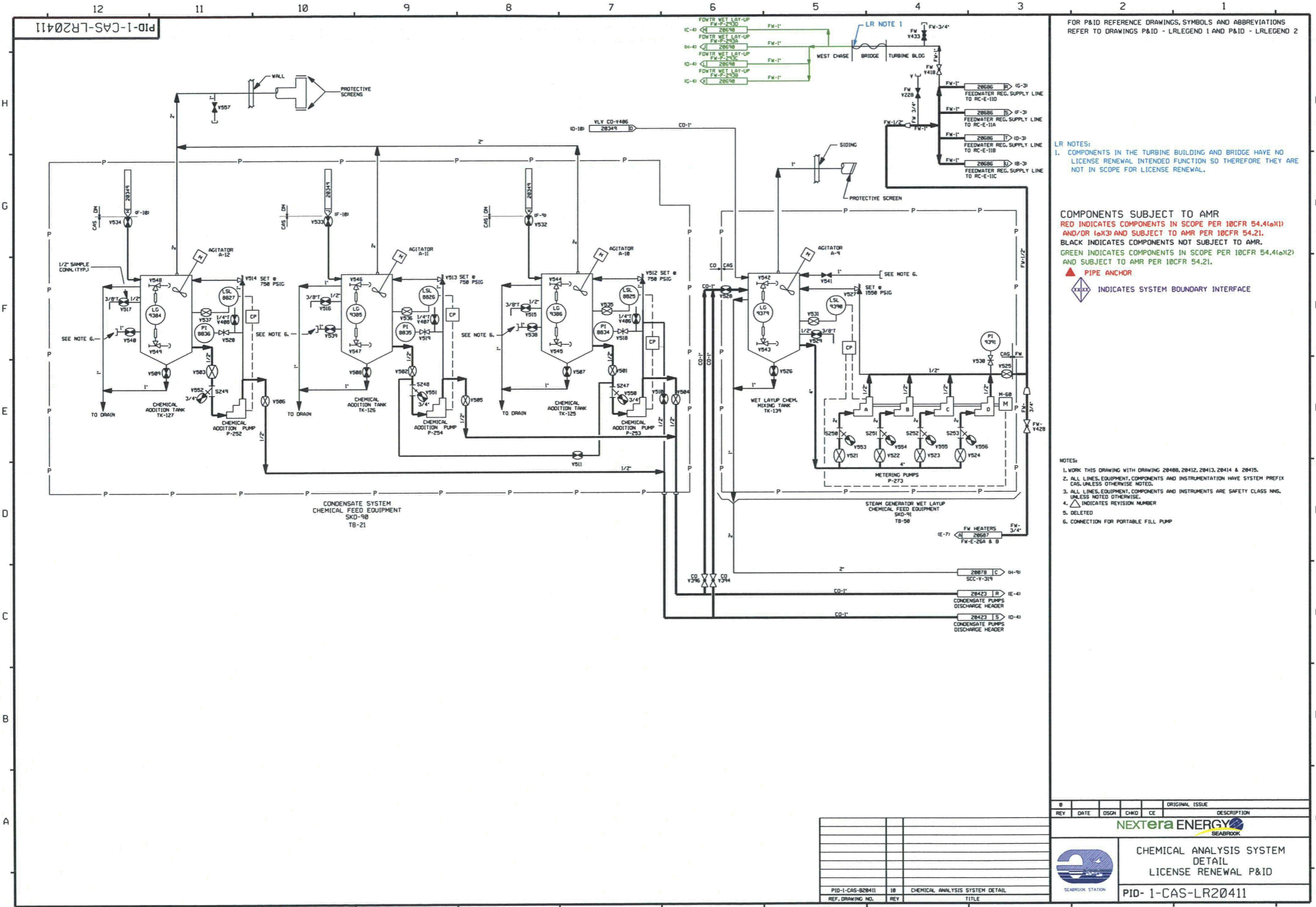
REV	DATE	DSGN	CHKD	CE	DESCRIPTION
0					ORIGINAL ISSUE
BORON RECOVERY SYSTEM DEGASIFICATION DETAIL LICENSE RENEWAL P&ID					
PID-1-BRS-LR20854					



SEABROOK STATION

REF. DRAWING NO.	REV	TITLE
PID-1-BRS-20854	9	BORON RECOVERY SYS DEGASIFICATION DETAIL

PID-1-CAS-LR20411



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

LR NOTES:
1. COMPONENTS IN THE TURBINE BUILDING AND BRIDGE HAVE NO LICENSE RENEWAL INTENDED FUNCTION SO THEREFORE THEY ARE NOT IN SCOPE FOR LICENSE RENEWAL.

COMPONENTS SUBJECT TO AMR
 RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
 BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
 GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.
 ▲ PIPE ANCHOR
 ◊ INDICATES SYSTEM BOUNDARY INTERFACE

NOTES:
 1. WORK THIS DRAWING WITH DRAWING 20408, 20412, 20413, 20414 & 20415.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION HAVE SYSTEM PREFIX CAS, UNLESS OTHERWISE NOTED.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NMS, UNLESS NOTED OTHERWISE.
 4. ▲ INDICATES REVISION NUMBER
 5. DELETED
 6. CONNECTION FOR PORTABLE FILL PUMP

REV	DATE	DSGN	CHKD	CE	DESCRIPTION

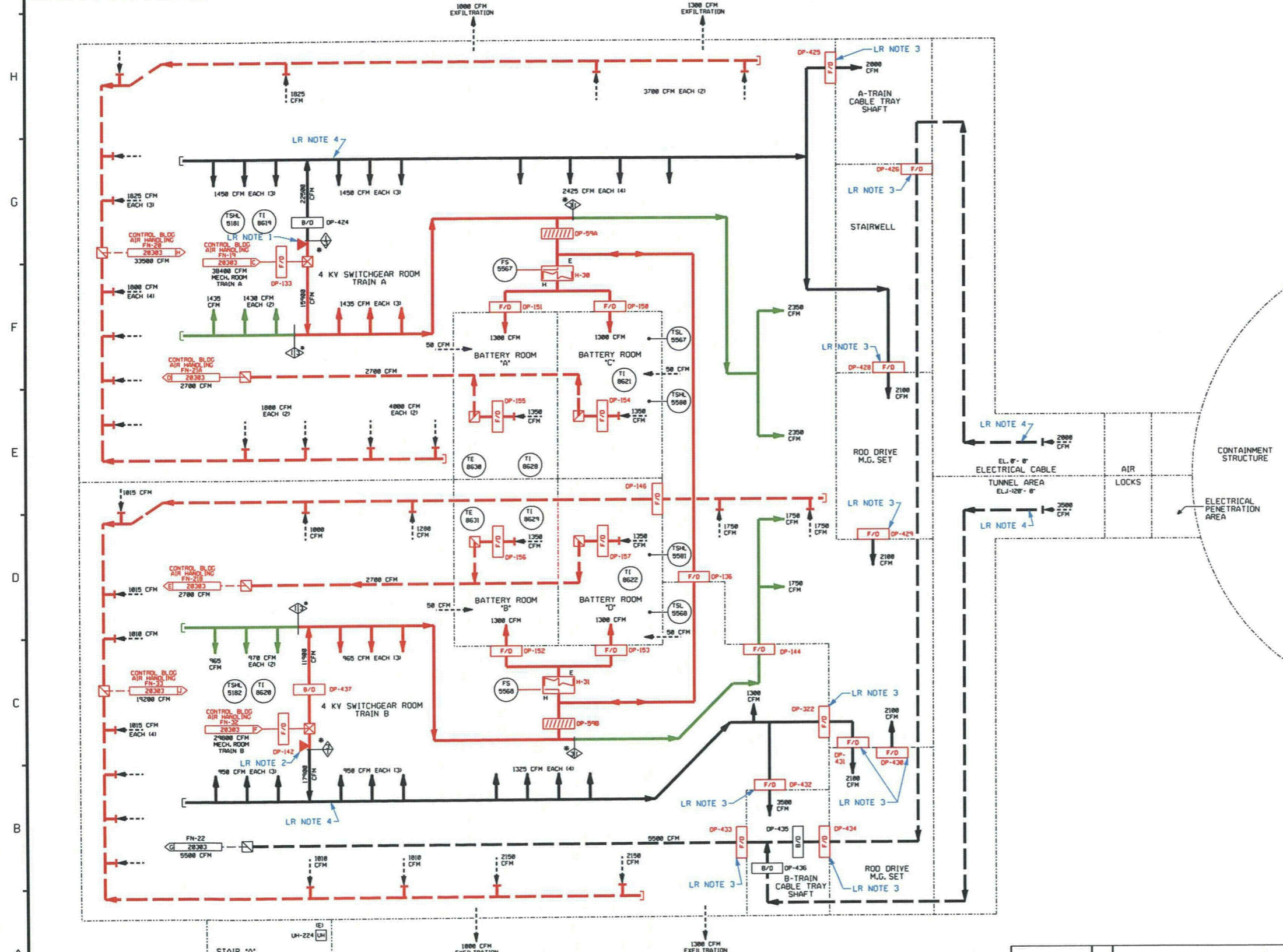
CHEMICAL ANALYSIS SYSTEM DETAIL
LICENSE RENEWAL P&ID
 PID-1-CAS-LR20411

REV	DATE	TITLE
10		CHEMICAL ANALYSIS SYSTEM DETAIL



PID-1-CBA-LR20302

FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2



- LR NOTES:
1. DUCT SUPPORT EQUIVALENT ANCHOR
DWG NO.: 609095
HANGER NO.: FN-32-3.
 2. DUCT SUPPORT EQUIVALENT ANCHOR
DWG NO.: 604115
HANGER NO.: FN-19-27.
 3. FIRE DAMPER IS IN SCOPE FOR 10X3, FIRE PROTECTION.
 4. COMPONENTS IN BLACK HAVE NO LICENSE RENEWAL (LR) INTENDED FUNCTION AND ARE NOT IN SCOPE.

COMPONENTS SUBJECT TO AMR
 RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
 BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
 GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

- ▲ PIPE ANCHOR
- ◇(XXX) INDICATES SYSTEM BOUNDARY INTERFACE

- NOTES:
- 1J WORK THIS DRAWING WITH DRAWINGS B20300 & B20303 THRU B20306.
 - 2J ALL HVAC EQUIPMENT & INSTRUMENTS HAVE SYSTEM PREFIX CBA, UNLESS NOTED OTHERWISE.
 - 3J SYMBOL LEGEND
- XXX CFM NORMAL AIR FLOW
 - (XXX CFM) EMERGENCY AIR FLOW
 - //--- PARALLEL MULTIBLADE DAMPER W/LIMIT SWITCH
 - /--- OPPOSED MULTIBLADE DAMPER W/LIMIT SWITCH
 - ////// BACKDRAFT DAMPER
 - X/D DAMPER F-FIRE B-BALANCING
 - ////// FIXED LOUVER
 - C COOLING COIL
 - FILTER F-ROUGHING, PRE-FILTER A-HEPA C-CHARCOAL
 - H/E ELECTRIC HEATING COIL
 - H/C HEATING COIL W-WATER S-STEAM
 - UW UNIT HEATER W-WATER S-STEAM E-ELECTRIC
 - UW HUMIDIFIER W-WATER
 - DUCTED SUPPLY
 - DUCTED RETURN
 - NON-DUCTED SUPPLY OR RETURN

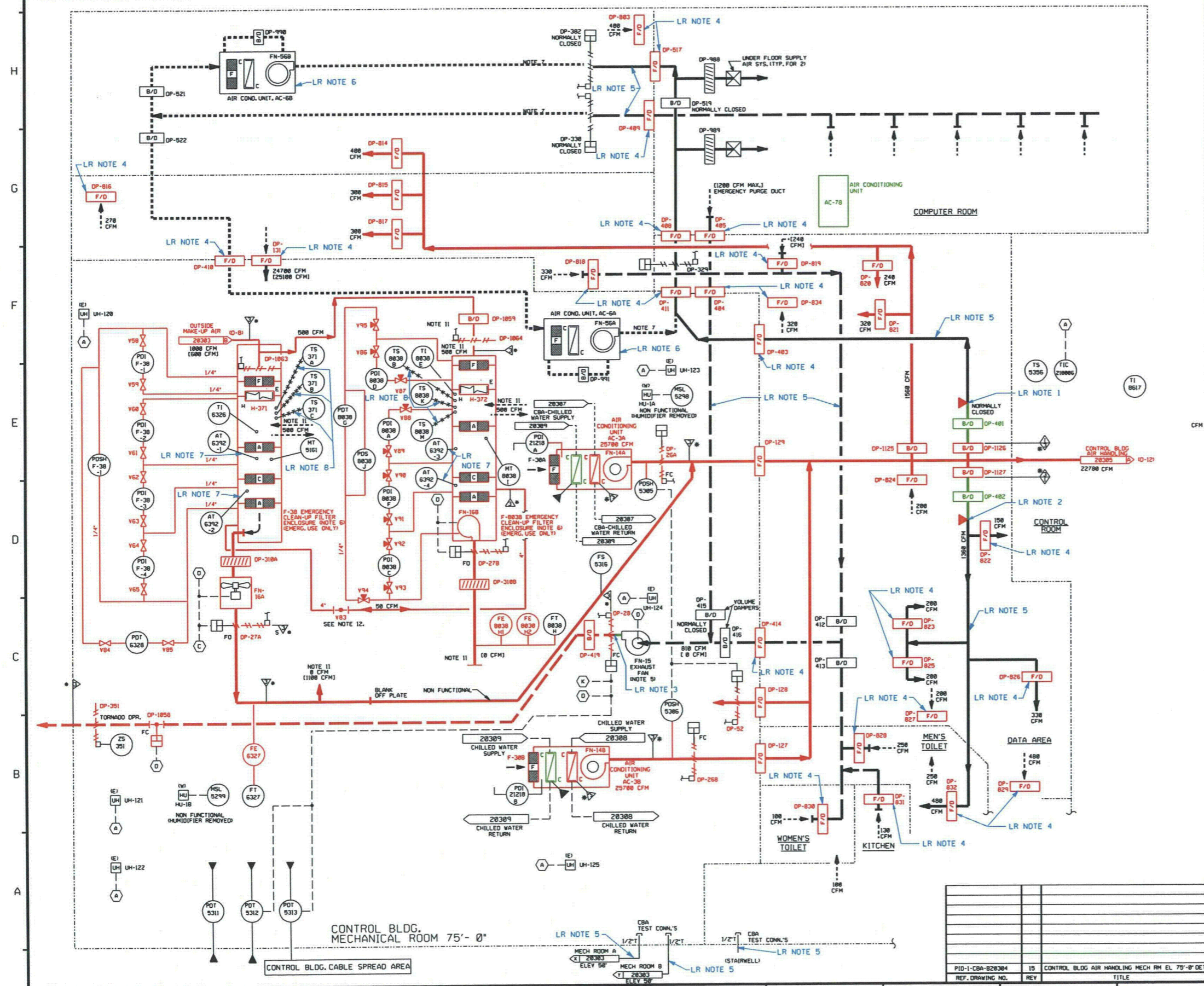
PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

REV	DATE	DSGN	CHKD	CE	ORIGINAL ISSUE	DESCRIPTION

CONTROL BUILDING AIR HANDLING EMERGENCY SWITCHGEAR AREA DETAIL
 LICENSE RENEWAL P&ID
 PID-1-CBA-LR20302

REF. DRAWING NO.	REV	TITLE
PID-1-CBA-820302	4	CONTROL BLDG AIR HANDLING EMER SWITCHGEAR AREA

PID-1-CBA-LR20304



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

- LR NOTES:
- HANGER SUPPORT ANCHOR
ARRGT DWG: 9763-F-609092
HANGER: CBA-FN-14-31 TYPE 10
 - HANGER SUPPORT ANCHOR
ARRGT DWG: 9763-F-609092
HANGER: CBA-FN-14A-33 TYPE 1
 - (A)(2) DUCTING STOPS AT FLEX JOINT AT CBA-FN-15 EXHAUST.
 - FIRE DAMPER IS IN SCOPE FOR (A)(3) FIRE PROTECTION.
 - COMPONENTS IN BLACK HAVE NO LICENSE RENEWAL (LR) INTENDED FUNCTION AND ARE NOT IN SCOPE.
 - PIPING FOR AIR CONDITIONING UNITS AC-6A & AC-6B IS NOT INSTALLED AND NOT IN LR SCOPE.
 - SMOKE DETECTORS AND SENSORS ARE IN SCOPE FOR (A)(3) FIRE PROTECTION.
 - CAPILLARY TUBING IS PART OF THE INSTRUMENT AND CONSIDERED AN ACTIVE COMPONENT PER NEI 95-10.

COMPONENTS SUBJECT TO AMR
RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

▲ PIPE ANCHOR
 ◆ INDICATES SYSTEM BOUNDARY INTERFACE

- NOTES:
- WORK THIS DRAWING WITH DRAWINGS 20306, 20302, 20303, 20305 & 20306.
 - ALL HVAC EQUIPMENT & INSTRUMENTS HAVE SYSTEM PREFIX 'CBA' UNLESS NOTED OTHERWISE.
 - FOR SYMBOL LEGEND SEE DRAWING 20302.
 - INSTRUMENT REFERENCES:
 (A) TIE-IN FOR UNIT HEATERS UH-120 THRU UH-125 & TISL-5307 ON THIS DRAWING.
 (C) SAFETY INJECTION SIGNAL 'SI'
 (D) INTERLOCK WITH FILTER RECIRC. SIGNAL LOGIC DIAGRAM 503231.
 (V) TO POIS-5332 ON DRAWING 20303
 - EXHAUST FAN FN-15 & DAMPER DP-28 IS SIZED FOR 1200 CFM CONSIDERING THE WORST POSSIBLE CASE OF ZERO CFM EXFILTRATION.
 - FILTER DIFFERENTIAL PRESSURE & REQUIRED FLOWS:

FILTER TAG NO.	CLEAN FLOW CFM	DIRTY FLOW CFM	ANSI DIRTY FLOW CFM	SURVEILLANCE TEST FLOW CFM	SURVEILLANCE TEST FLOW +10% CFM	SURVEILLANCE TEST FLOW -10% CFM
CBA-F-38	1210	1100	990	1100	1210	990
CBA-F-0838	1210	1100	990	1100	1210	990

- AC-6A & B USED ONLY AS EMERGENCY BACK-UP. NORMALLY ABANDONED.
- DELETED
- DELETED
- INDICATES REVISION LEVEL
- REQUIRED FLOW DISTRIBUTION BASED ON CLEAN TO ANSI DIRTY FILTER CONDITIONS, WITH SINGLE TRAIN OPERATION IN CFM

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

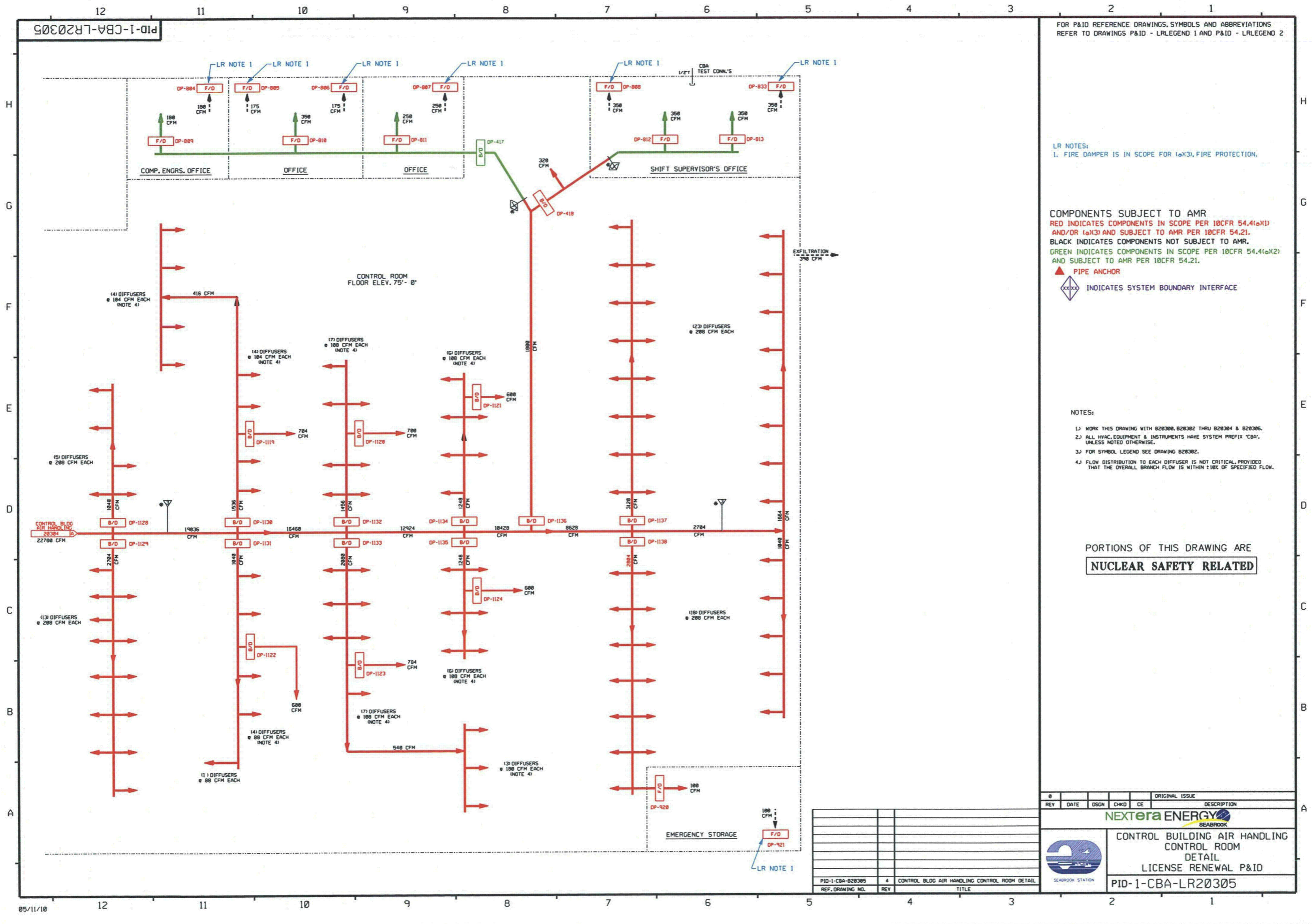
FAN TAG NUMBER	FILTER TAG NUMBER	EMERGENCY TOTAL MAKE-UP RECIRC. ± 10% CFM	FAN TAG NUMBER	FILTER TAG NUMBER	NORMAL MAKE-UP TOTAL ± 10% CFM
CBA-FN-16A	CBA-F-0838	540 TO 600	CBA-FN-27A	CBA-F-38	500 ± 10%
CBA-FN-16B	CBA-F-38	0	CBA-FN-27B	CBA-F-0838	500 ± 10%
CBA-FN-16B	CBA-F-0838	540 TO 600	CBA-FN-27B	CBA-F-38	500 ± 10%

REV	DATE	DSGN	CHKD	CE	DESCRIPTION
0					ORIGINAL ISSUE

CONTROL BUILDING AIR HANDLING MECHANICAL ROOM ELEVATION 75'-0" DETAIL
 LICENSE RENEWAL P&ID
 PID-1-CBA-LR20304

PID-1-CBA-820304	REV	TITLE
15		CONTROL BLDG AIR HANDLING MECH RM EL. 75'-0" DET
		REF. DRAWING NO.

PID-1-CBA-LR20305



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

LR NOTES:
1. FIRE DAMPER IS IN SCOPE FOR (a)(3), FIRE PROTECTION.

COMPONENTS SUBJECT TO AMR
RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

▲ PIPE ANCHOR
◊ INDICATES SYSTEM BOUNDARY INTERFACE

- NOTES:
- 1) WORK THIS DRAWING WITH B28308, B28382 THRU B28384 & B28385.
 - 2) ALL HYAC. EQUIPMENT & INSTRUMENTS HAVE SYSTEM PREFIX 'CBA', UNLESS NOTED OTHERWISE.
 - 3) FOR SYMBOL LEGEND SEE DRAWING B28382.
 - 4) FLOW DISTRIBUTION TO EACH DIFFUSER IS NOT CRITICAL, PROVIDED THAT THE OVERALL BRANCH FLOW IS WITHIN ±10% OF SPECIFIED FLOW.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

REV	DATE	DSGN	CHKD	CE	DESCRIPTION

ORIGINAL ISSUE

NEXTERA ENERGY
SEABROOK

CONTROL BUILDING AIR HANDLING CONTROL ROOM DETAIL
LICENSE RENEWAL P&ID

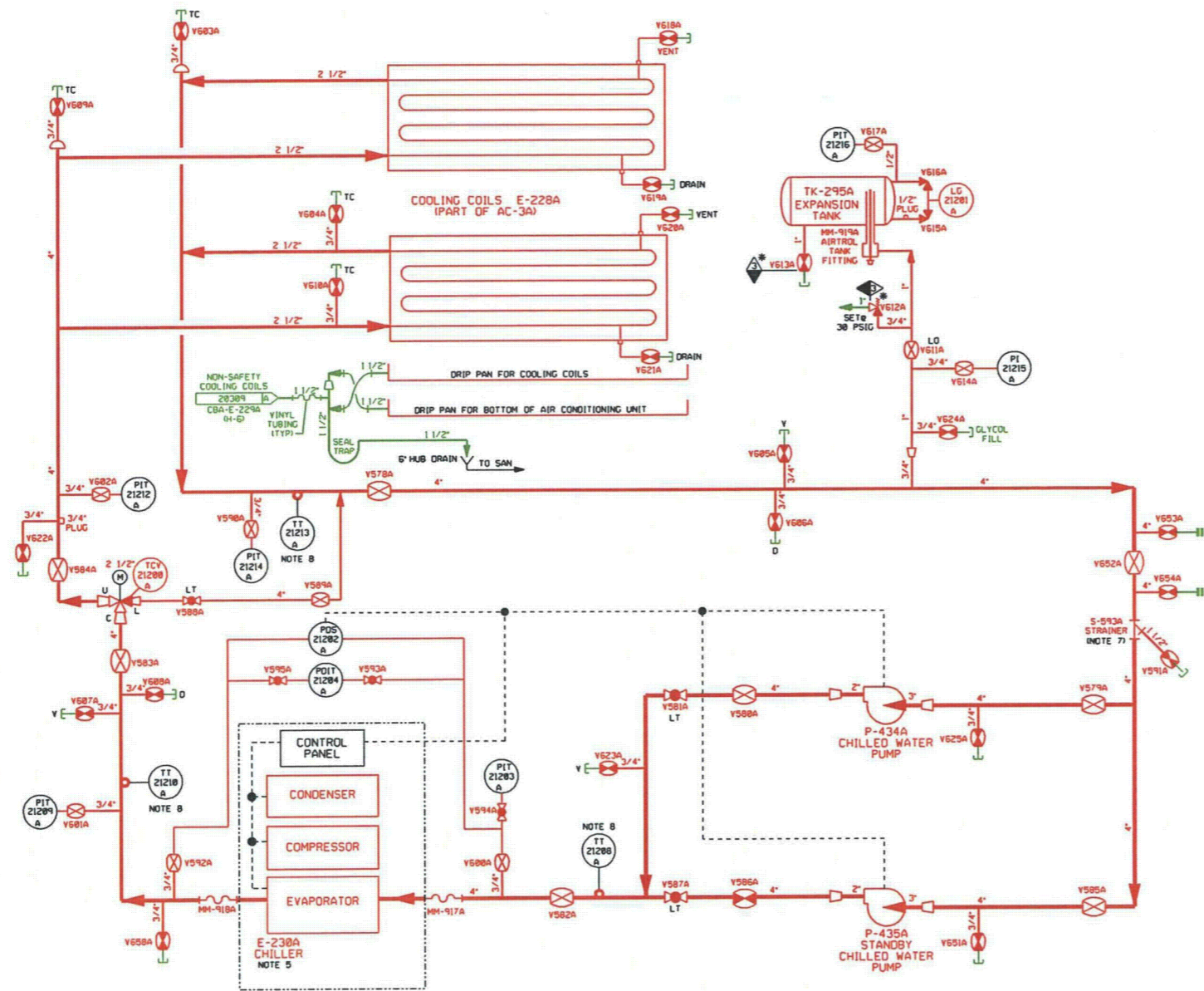
PID-1-CBA-LR20305

REF. DRAWING NO.	REV	TITLE
PID-1-CBA-B28385	4	CONTROL BLDG AIR HANDLING CONTROL ROOM DETAIL

05/11/10

PID-1-CBA-LR20307

FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2



COMPONENTS SUBJECT TO AMR
 RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
 BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
 GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.
 ▲ PIPE ANCHOR
 ◆ INDICATES SYSTEM BOUNDARY INTERFACE

- NOTES:
1. WORK THIS DWG WITH DWGS 20300 & 20302 THRU 20306, 20308 & 20309.
 2. ALL LINES, EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX CBA UNLESS NOTED.
 3. ALL LINES, EQUIPMENT, COMPONENTS & INSTRUMENTS ARE UNLESS NOTED.
 4. ▲ INDICATES REVISION LEVEL.
 5. REFER TO PP-62418 (E-230A) FOR THE SKID MOUNTED INSTRUMENTS.
 6. VENTS, DRAINS, AND TEST CONNECTIONS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER I-NHT-085111 UNLESS NOTED OTHERWISE.
 7. STRAINER CBA-S-930A IS TO HAVE THE STRAINER BASKET REMOVED AFTER INITIAL START-UP OF THE SYSTEM.
 8. ALL "TT" TEMPERATURE TRANSMITTERS ARE NNS. THERMOWELLS ARE SAFETY CLASS ANS 3.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

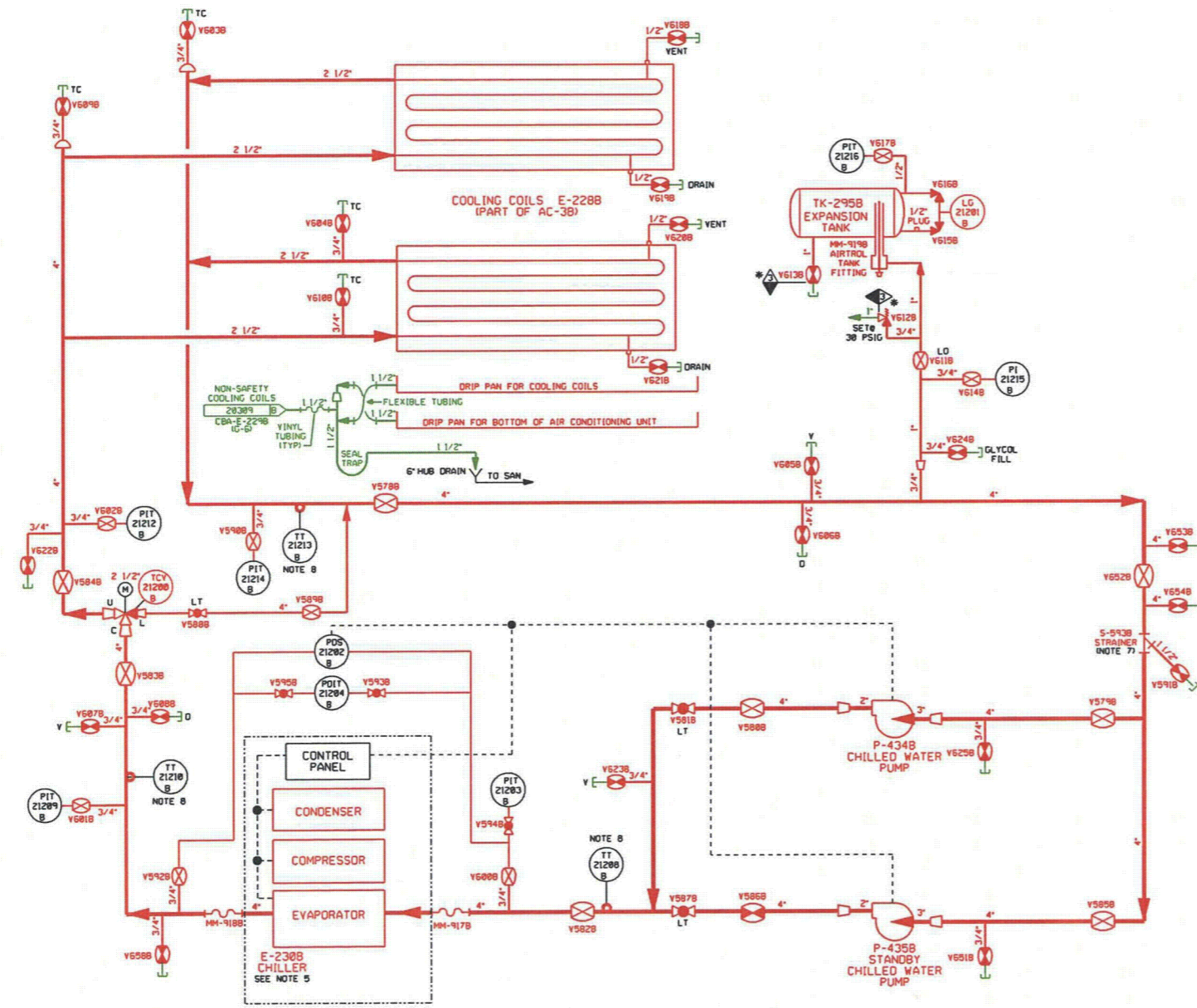
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

NEXTERA ENERGY
 SEABROOK

CONTROL BUILDING AIR CONDITIONING SYSTEM SAFETY RELATED CHILLED WATER SYSTEM TRAIN A DETAIL LICENSE RENEWAL P&ID

PID-1-CBA-LR20307

REF. DRAWING NO.	REV	TITLE
PID-1-CBA-B20307	8	CONTROL BLDG S R CHILLED WATER SYS TRAIN A



COMPONENTS SUBJECT TO AMR
 RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
 BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
 GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

▲ PIPE ANCHOR
 ◆ INDICATES SYSTEM BOUNDARY INTERFACE

- NOTES:**
1. WORK THIS DWG WITH DWGS 20308 & 20302 THRU 20309.
 2. ALL LINES, EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX CBA UNLESS NOTED.
 3. ALL LINES, EQUIPMENT, COMPONENTS & INSTRUMENTS ARE UNLESS NOTED.
 4. △ INDICATES REVISION LEVEL.
 5. REFER TO FP-62478 (E-2308) FOR THE SKID MOUNTED INSTRUMENTS.
 6. VENTS, DRAINS AND TEST CONNECTIONS CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER I-NHY-80511, UNLESS NOTED OTHERWISE.
 7. STRAINER CBA-5-5938 IS TO HAVE THE STRAINER BASKET REMOVED AFTER INITIAL START-UP OF THE SYSTEM.
 8. ALL "TT" TEMPERATURE TRANSMITTERS ARE NMS. THERMOWELLS ARE SAFETY CLASS ANS 3.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

REV	DATE	DSGN	CHKD	CE	DESCRIPTION

ORIGINAL ISSUE

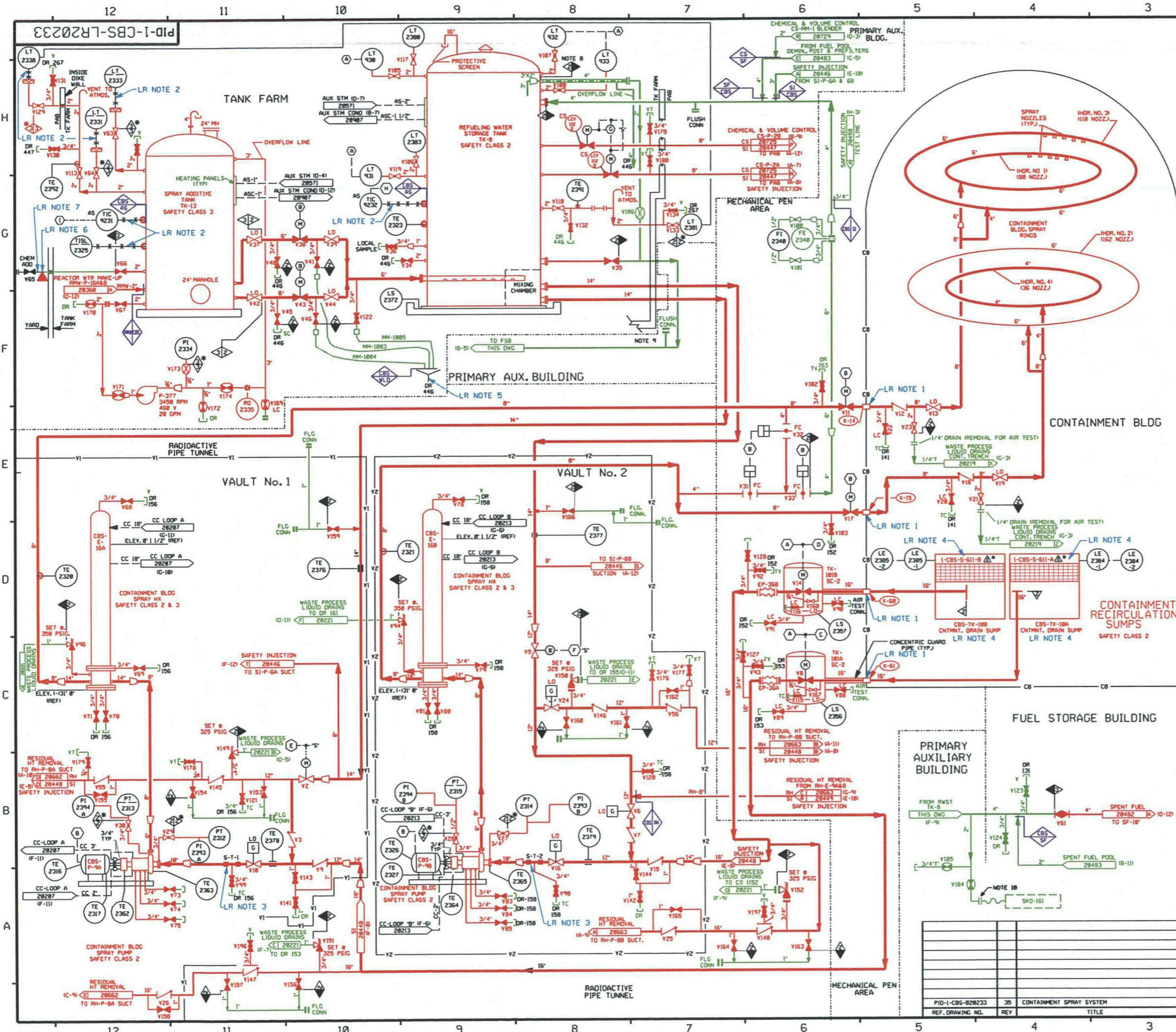
NEXTERA ENERGY
 SEABROOK

CONTROL BLDG AIR CONDITIONING SYSTEM
 SAFETY RELATED CHILLED WTR SYS
 TRAIN B DETAIL
 LICENSE RENEWAL P&ID

PID-1-CBA-LR20308

SEABROOK STATION

REF. DRAWING NO.	REV	TITLE



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

COMPONENTS SUBJECT TO AMR
 RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
 BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
 GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

- ▲ PIPE ANCHOR
- ◇ INDICATES SYSTEM BOUNDARY INTERFACE
- CBS - CONTAINMENT SPRAY SYSTEM
- SF - SPENT FUEL POOL COOLING & CLEANUP SYSTEM
- RH - RESIDUAL HEAT REMOVAL SYSTEM
- SI - SAFETY INJECTION SYSTEM
- RMW - REACTOR MAKE-UP WATER SYSTEM
- WLD - WASTE PROCESSING LIQUID DRAINS SYSTEM
- AS - AUXILIARY STEAM SYSTEM
- CS - CHEMICAL & VOLUME CONTROL SYSTEM

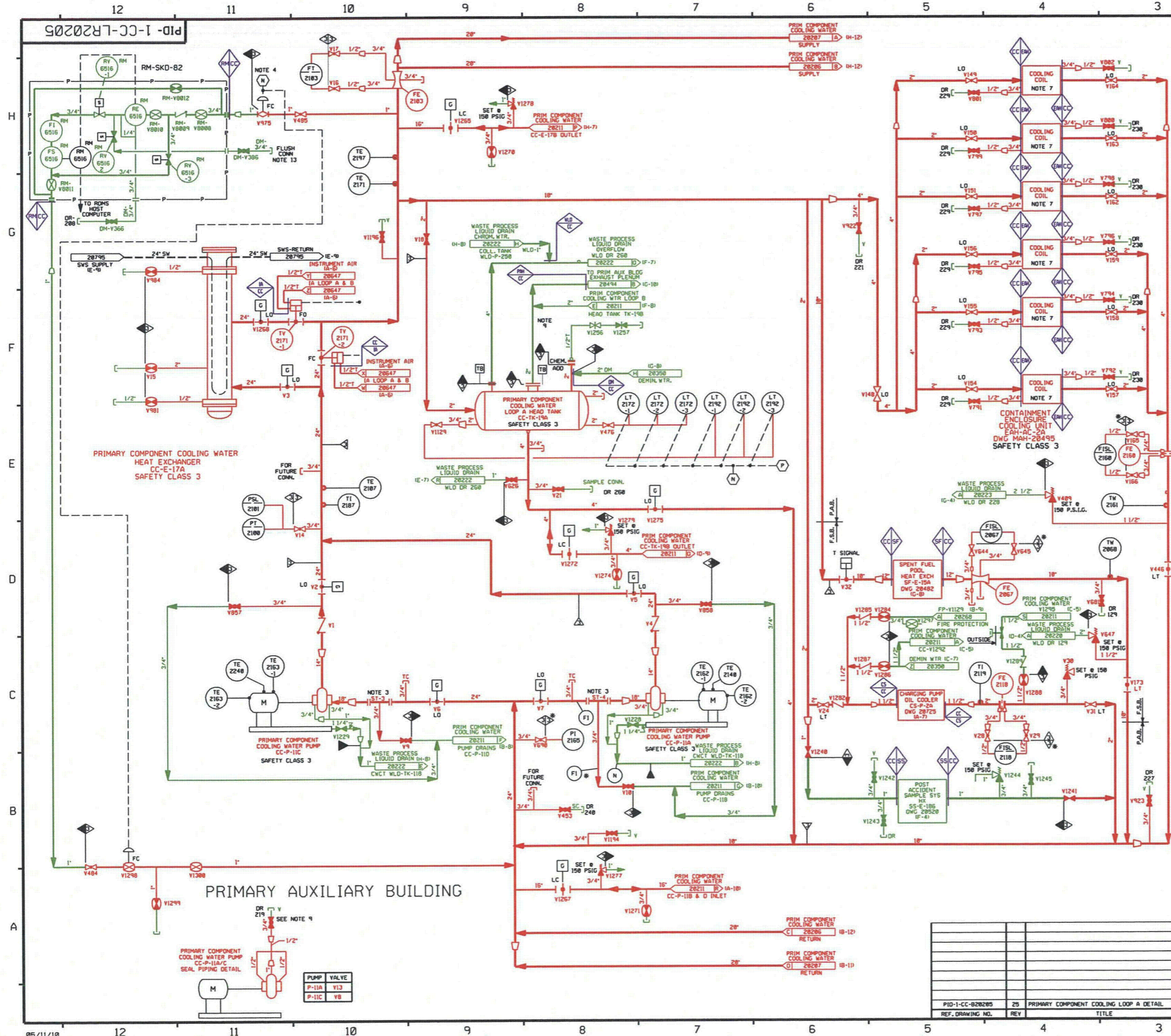
- NOTES:**
1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION HAVE SYSTEM PREFIX CBS, UNLESS NOTED OTHERWISE.
 2. THE CBS IS A ONE DRAINING SYSTEM, AN OVERVIEW IS NOT REQUIRED. PORTIONS OF THIS DRAWING ARE DUPLICATED ON DWG. SI-20448 DUE TO DUAL SYSTEM FUNCTIONS.
 3. INSTRUMENTATION SYMBOLS.
 - (A) THIS DRAWING
 - (B) CONTAINMENT SPRAY SIGNAL P
 - (C) INTERLOCK FROM RC-Y22, RC-Y23 ON DWG. RC-20841
 - (D) INTERLOCK FROM RC-Y07, RC-Y08 ON DWG. RC-20844
 - (E) INTERLOCK FROM RH-Y35, BN DWG. RH-20662 AND Y08 THIS DRAWING
 - (F) INTERLOCK FROM RH-Y36, ON DWG. RH-20663 AND Y14 THIS DRAWING
 - (G) CS-TK-1 LEVEL LT-105, LT-112 ON DWG. CS-20725
 - (H) STEAM SUPPLY VLV. AS TY-9232 ON DWG. AS-20571
 - (I) STEAM SUPPLY VLV. AS TY-9231 ON DWG. AS-20571
 4. VENT AND DRAIN CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-NM-080111 UNLESS NOTED OTHERWISE.
 5. DELETED
 6. ▲ INDICATES REVISION LEVEL
 7. * DENOTES UPGRADE OF PIPING FROM 301 TO 601 MATERIAL SPEC.
 8. CLASS BREAK OF THE OVERFLOW LINE IS AT THE TANK TO NOZZLE WELD.
 9. CONNECTION USED FOR PRE-PLANNED MAKEUP STRATEGY, SEE FP5989.
 10. BLIND FLANGE IS INSTALLED WHEN HOSE IS NOT CONNECTED.

- LR NOTES:**
1. CONTAINMENT PENETRATIONS (X-60, X-14, X-15 & X-61) ARE EVALUATED UNDER CIVIL/STRUCTURAL LRSP-CNT.
 2. CAPILLARY TUBING IS PART OF THE INSTRUMENT AND CONSIDERED AN ACTIVE COMPONENT PER NEI 95-10.
 3. COMPONENTS 1-CBS-S-T-1 AND 1-CBS-S-T-2 ARE NOT INSTALLED DURING NORMAL OPERATION BUT A SPOOL PIECE IS INSTALLED.
 4. CONTAINMENT DRAIN SUMPS 1-CBS-TK-10A & 10B ARE CONCRETE. THEY ARE EVALUATED BY CIVIL/STRUCTURAL. COMPONENTS 1-CBS-S-611A & 611B ARE STAINLESS STEEL THEY ARE EVALUATED IN THIS AMR.
 5. EXPOSED PIPING IS IN THE WASTE PROCESSING BUILDING WHICH HAS NO SAFETY RELATED COMPONENTS AND THEREFORE NOT IN LICENSE RENEWAL (LR) SCOPE.
 6. PIPE SUPPORT EQUIVALENT ANCHOR
 ISO DWG: 801229-551.80
 HANGER NO.: 1229-SG-02, 1229-RG-03, 1229-SG-08 & 1229-SG-09
 CAL NO.: MCD 551.80-CALC
 7. COMPONENTS ARE IN THE YARD WHERE NO SAFETY RELATED COMPONENTS ARE, THEREFORE HAVE NO (a)(2) FUNCTION AND NOT IN LR SCOPE.

REV	DATE	DSGN	CHKD	CE	ORIGINAL ISSUE	DESCRIPTION

CONTAINMENT SPRAY SYSTEM LICENSE RENEWAL P&ID	
PID-1-CBS-LR20233 REF. DRAWING NO.	35 REV
PID-1-CBS-LR20233 TITLE	

PID-1-CC-LR20205



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

COMPONENTS SUBJECT TO AMR
 RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
 BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
 GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

- ▲ PIPE ANCHOR
- ◇ INDICATES SYSTEM BOUNDARY INTERFACE
- DM - DEMINERALIZED WATER SYSTEM
- CC - PRIMARY COMPONENT COOLING SYSTEM
- IA - INSTRUMENT AIR SYSTEM
- RM - RADIATION MONITORING SYSTEM
- WLD - WASTE PROCESSING LIQUID DRAINS SYSTEM
- SF - SPENT FUEL POOL COOLING SYSTEM
- CS - CHEMICAL & VOLUME CONTROL SYSTEM
- EAH - CONTAINMENT ENCLOSURE AIR HANDLING SYSTEM
- PAH - PRIMARY AUXILIARY BUILDING AIR HANDLING SYSTEM
- SS - SAMPLE SYSTEM

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS B28204 AND B28205 THROUGH B28215.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX "1-CC" UNLESS NOTED OTHERWISE.
 3. PERMANENT SPOOL PIECE INSTALLATION SHOWN TEMPORARY STRAINER IS USED IN PLACE OF SPOOL PIECE DURING INITIAL FLUSHING OPERATION. STRAINER TO BE REMOVED BEFORE PLANT START-UP.
 4. (M) CLOSE ON HEAD TANK TK-19A LOW LEVEL SIGNAL, SIGNAL TO Y426 & Y427 ON DWG CC-28206 AND Y975 & Y1298 ON THIS DWG.
 - (P) SIGNAL TO Y122, Y168, Y121 & Y57 ON DWG. CC-28207
 5. VENT & DRAIN CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER I-NHT-805111 UNLESS OTHERWISE NOTED.
 6. △ - INDICATES REVISION LEVEL.
 7. CONTAINMENT ENCLOSURE AIR HANDLING FOR AC-2A SEE DWG I-MAH-28495 10-51.
 8. CONNECTION TO BE USED FOR FLUSHING SEE DWG DM-28350 1F-90 & NOTE 7.
 9. QUICK DISCONNECTS MAY BE INSTALLED UPSTREAM OF PIPE CAPS AS DEEMED NECESSARY BY STATION STAFF TO FACILITATE VENT AND DRAIN OPERATIONS.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

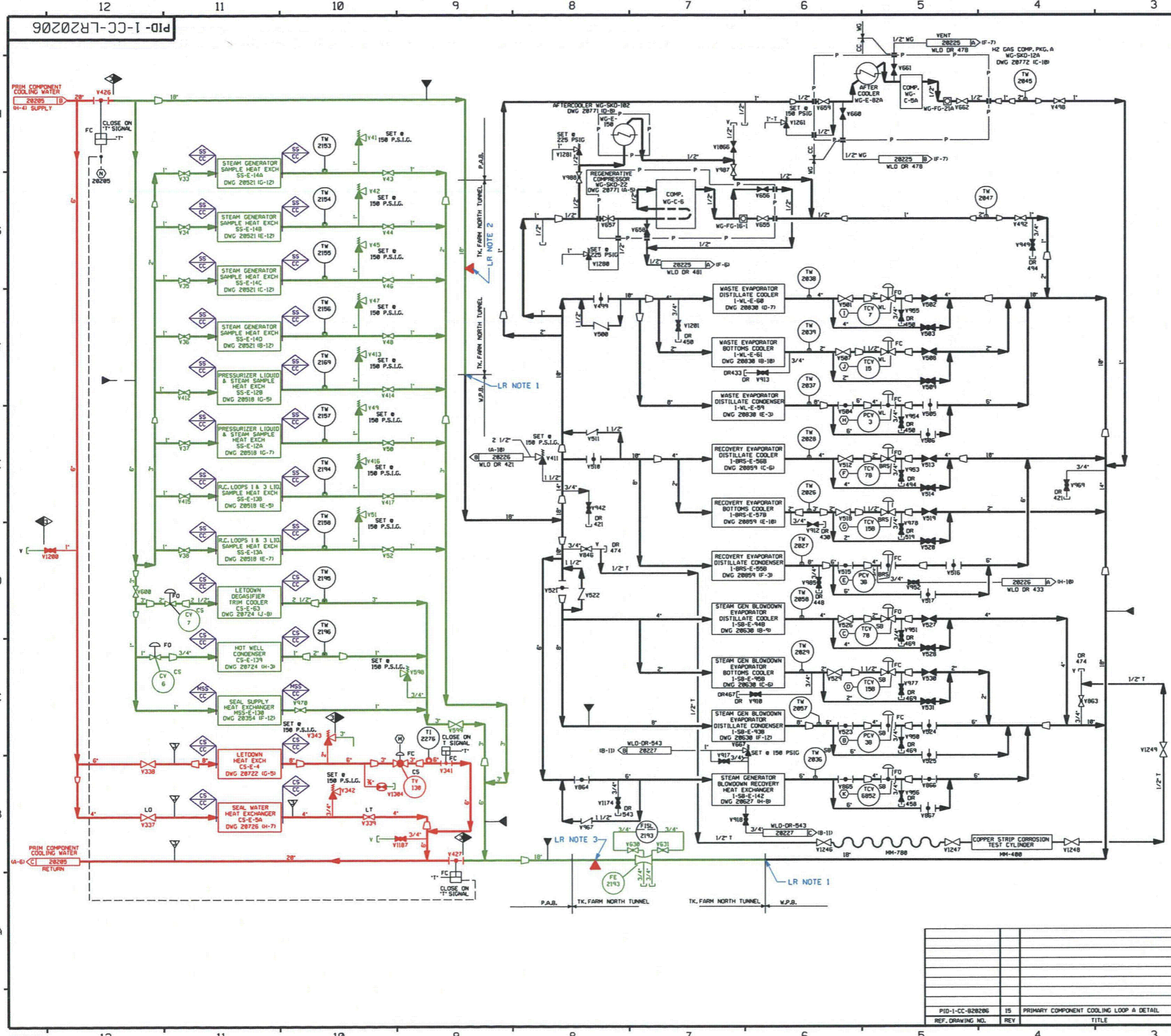
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

ORIGINAL ISSUE

NEXTERA ENERGY
 SEABROOK STATION

PRIMARY COMPONENT COOLING LOOP A
 DETAIL
 LICENSE RENEWAL P&ID
 PID-1-CC-LR20205

05/11/10



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

- LR NOTES:
1. PIPING ENTERS THE WASTE PROCESSING BUILDING WHICH HAS NO SAFETY RELATED COMPONENTS OR PIPING THEREFORE NO LICENSE RENEWAL LR INTENDED FUNCTION AND NOT IN SCOPE.
 2. PIPE SUPPORT EQUIVALENT ANCHOR
ISO DWG NO.: 800754
HANGER NO.: 754-SG-02 & M/S-754-SG-03
CAL. NO.: MCD 584.60-CAL
 3. PIPE SUPPORT EQUIVALENT ANCHOR
ISO DWG NO.: 800866
HANGER NO.: 866-SG-02 & M/S-754-03-866-SG-03
CAL. NO.: MCD 584.20-CAL

COMPONENTS SUBJECT TO AMR
 RED INDICATES COMPONENTS IN SCOPE FOR 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
 BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
 GREEN INDICATES COMPONENTS IN SCOPE FOR 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

▲ PIPE ANCHOR

◇◇◇◇ INDICATES SYSTEM BOUNDARY INTERFACE
 CC - PRIMARY COMPONENT COOLING SYSTEM
 MSS - MECHANICAL SEAL SUPPLY SYSTEM
 CS - CHEMICAL & VOLUME CONTROL SYSTEM
 SS - SAMPLE SYSTEM

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20204, 20205 AND 20207, THROUGH 20215.
 2. ALL LINES, EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX I-CC UNLESS NOTED OTHERWISE.
 3. INSTRUMENT REFERENCES
 - (B) FROM SB-PT-30 DWG. 120630
 - (C) FROM SB-TE-78 DWG. 120630
 - (D) FROM SB-TE-158 DWG. 120630
 - (E) FROM BRS-PT-30 DWG. 120859
 - (F) FROM BRS-TE-78 DWG. 120859
 - (G) FROM BRS-TE-158 DWG. 120859
 - (H) FROM ML-PT-3 DWG. 120830
 - (I) FROM ML-TE-7 DWG. 120830
 - (J) FROM ML-TE-15 DWG. 120830
 - (K) FROM SB-TE-6852 DWG. 120627
 - (M) FROM TE-130 LETDOWN HEAT EXCHANGER CS-E-4 OUTLET DWG. 120722
 - (N) CLOSE ON HEAD TANK TK-19A LOW LEVEL SIGNAL.
 4. ▲ INDICATES REVISION LEVEL.
 5. DELETED
 6. VENT & DRAIN CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER I-MH-805111 UNLESS OTHERWISE NOTED.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

REV	DATE	DSGN	CHKD	CE	ORIGINAL ISSUE	DESCRIPTION

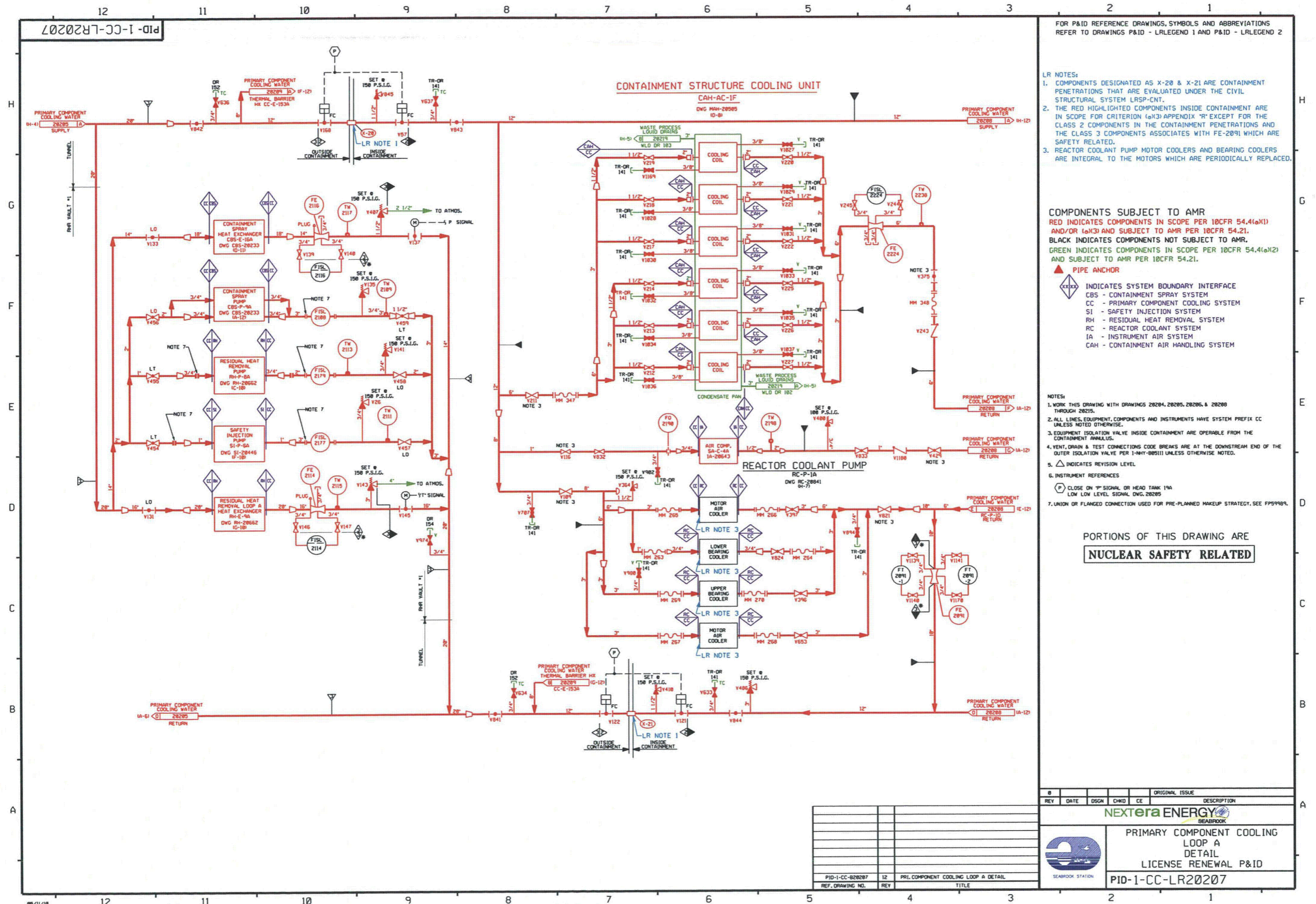


PRIMARY COMPONENT COOLING LOOP A
 DETAIL
 LICENSE RENEWAL P&ID
 PID-1-CC-LR20206

REF. DRAWING NO.	REV	TITLE
PID-1-CC-20206	15	PRIMARY COMPONENT COOLING LOOP A DETAIL

PID-1-CC-LR20207

FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2



- LR NOTES:
- COMPONENTS DESIGNATED AS X-20 & X-21 ARE CONTAINMENT PENETRATIONS THAT ARE EVALUATED UNDER THE CIVIL STRUCTURAL SYSTEM LRSP-CNT.
 - THE RED HIGHLIGHTED COMPONENTS INSIDE CONTAINMENT ARE IN SCOPE FOR CRITERION (a)(3) APPENDIX 'R' EXCEPT FOR THE CLASS 2 COMPONENTS IN THE CONTAINMENT PENETRATIONS AND THE CLASS 3 COMPONENTS ASSOCIATES WITH FE-2091 WHICH ARE SAFETY RELATED.
 - REACTOR COOLANT PUMP MOTOR COOLERS AND BEARING COOLERS ARE INTEGRAL TO THE MOTORS WHICH ARE PERIODICALLY REPLACED.

COMPONENTS SUBJECT TO AMR
 RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
 BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
 GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

- ▲ PIPE ANCHOR
- ◆◆◆◆ INDICATES SYSTEM BOUNDARY INTERFACE
- CBS - CONTAINMENT SPRAY SYSTEM
 - CC - PRIMARY COMPONENT COOLING SYSTEM
 - SI - SAFETY INJECTION SYSTEM
 - RH - RESIDUAL HEAT REMOVAL SYSTEM
 - RC - REACTOR COOLANT SYSTEM
 - IA - INSTRUMENT AIR SYSTEM
 - CAH - CONTAINMENT AIR HANDLING SYSTEM

- NOTES:
- WORK THIS DRAWING WITH DRAWINGS 20204, 20205, 20206, & 20208 THROUGH 20215.
 - ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX CC UNLESS NOTED OTHERWISE.
 - EQUIPMENT ISOLATION VALVE INSIDE CONTAINMENT ARE OPERABLE FROM THE CONTAINMENT ANNULUS.
 - VENT, DRAIN & TEST CONNECTIONS CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-MHY-005311 UNLESS OTHERWISE NOTED.
 - △ INDICATES REVISION LEVEL
 - INSTRUMENT REFERENCES
 - P CLOSE ON 3" SIGNAL OR HEAD TANK 19% LOW LOW LEVEL SIGNAL DWG. 20205
 - UNION OR FLANGED CONNECTION USED FOR PRE-PLANNED MAKEUP STRATEGY. SEE FP99989.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

REV	DATE	OSCH	CHKD	CE	ORIGINAL ISSUE	DESCRIPTION

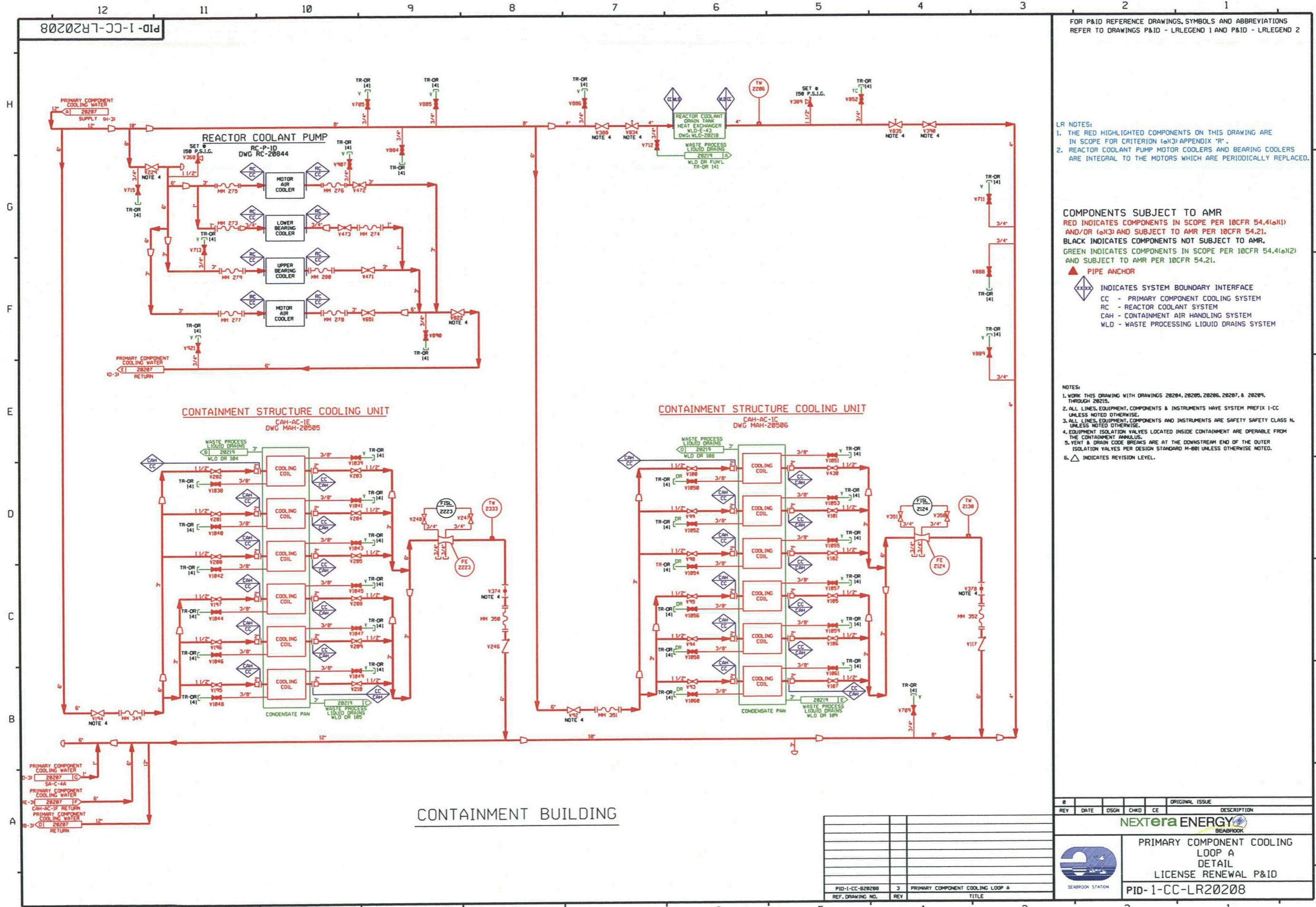
NEXTERA ENERGY
SEABROOK

**PRIMARY COMPONENT COOLING LOOP A
DETAIL
LICENSE RENEWAL P&ID**

PID-1-CC-LR20207

REF. DRAWING NO.	REV	TITLE
PID-1-CC-B20207	12	PRC COMPONENT COOLING LOOP A DETAIL

SEABROOK STATION



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

LR NOTES:
 1. THE RED HIGHLIGHTED COMPONENTS ON THIS DRAWING ARE IN SCOPE FOR CRITERION 103(3) APPENDIX 'R'.
 2. REACTOR COOLANT PUMP MOTOR COOLERS AND BEARING COOLERS ARE INTEGRAL TO THE MOTORS WHICH ARE PERIODICALLY REPLACED.

COMPONENTS SUBJECT TO AMR
 RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR 103(3) AND SUBJECT TO AMR PER 10CFR 54.21.
 BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
 GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

▲ PIPE ANCHOR
 ◆ INDICATES SYSTEM BOUNDARY INTERFACE
 CC - PRIMARY COMPONENT COOLING SYSTEM
 RC - REACTOR COOLANT SYSTEM
 CAH - CONTAINMENT AIR HANDLING SYSTEM
 WLD - WASTE PROCESSING LIQUID DRAINS SYSTEM

NOTES:
 1. WORK THIS DRAWING WITH DRAWINGS 20204, 20205, 20206, 20207, & 20209, THROUGH 20215.
 2. ALL LINES, EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX 1-CC UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY SAFETY CLASS N, UNLESS NOTED OTHERWISE.
 4. EQUIPMENT ISOLATION VALVES LOCATED INSIDE CONTAINMENT ARE OPERABLE FROM THE CONTAINMENT ANNULUS.
 5. VENT & DRAIN CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVES PER DESIGN STANDARD M-881 UNLESS OTHERWISE NOTED.
 6. ▲ INDICATES REVISION LEVEL.

CONTAINMENT BUILDING

REV	DATE	DSGN	CHD	CE	DESCRIPTION

ORIGINAL ISSUE

NEXTERA ENERGY
SEABROOK

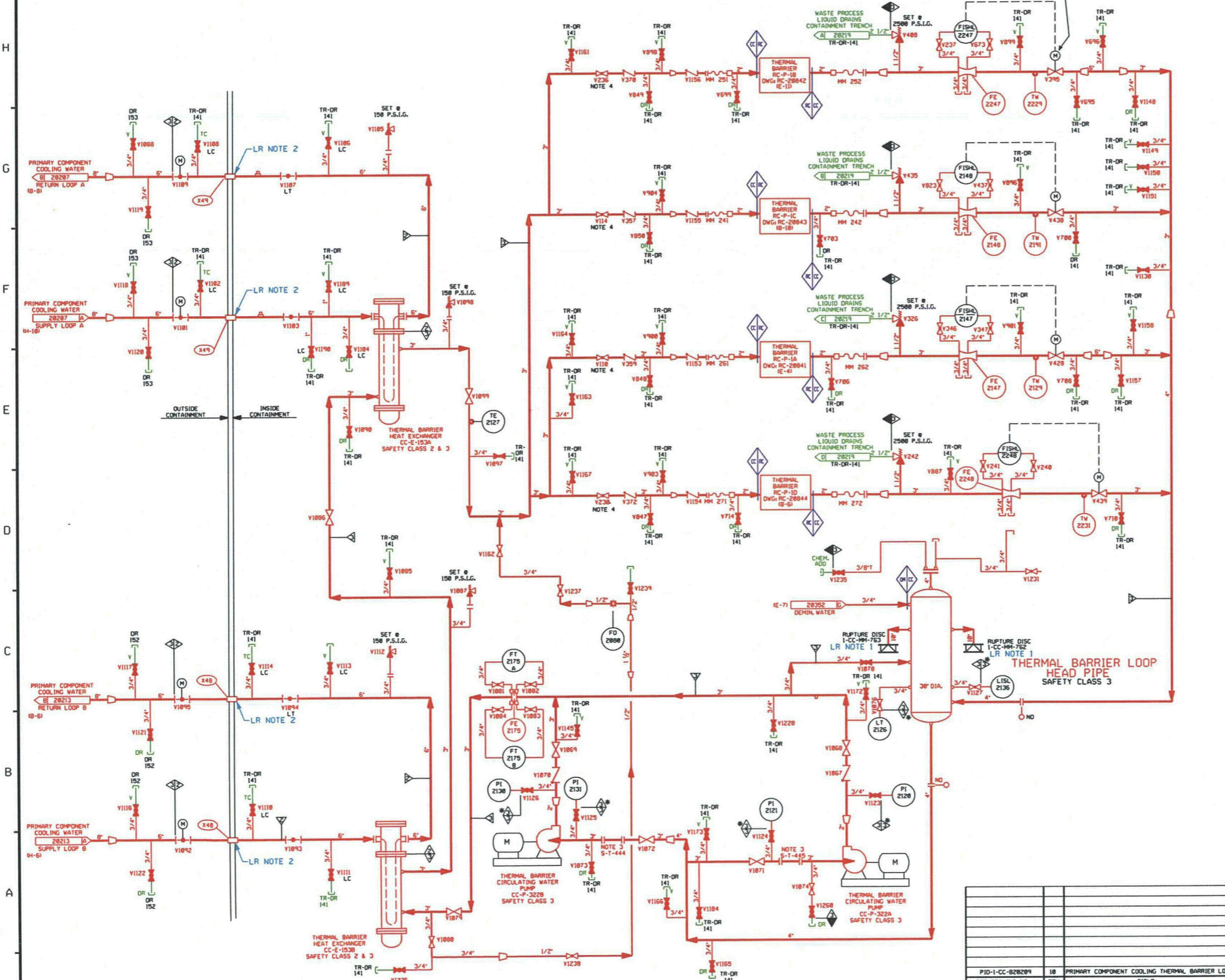
PRIMARY COMPONENT COOLING LOOP A
DETAIL
LICENSE RENEWAL P&ID
PID-1-CC-LR20208

SEABROOK STATION

REF. DRAWING NO.	REV	TITLE
PID-1-CC-820208	3	PRIMARY COMPONENT COOLING LOOP A

PID-1-CC-LR20209

CONTAINMENT BUILDING



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

- LR NOTES:
1. RUPTURE DISC'S 1-CC-MM-762 AND 1-CC-MM-763 ARE PERIODICALLY REPLACED.
 2. COMPONENTS DESIGNATED AS X-48 & X-49 ARE CONTAINMENT PENETRATIONS THAT ARE EVALUATED UNDER THE CIVIL STRUCTURAL SYSTEM LRSP-CNT.

COMPONENTS SUBJECT TO AMR
 RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
 BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
 GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

- ▲ PIPE ANCHOR
- ◇ INDICATES SYSTEM BOUNDARY INTERFACE
- DM - DEMINERALIZED WATER SYSTEM
- CC - PRIMARY COMPONENT COOLING SYSTEM
- RC - REACTOR COOLANT SYSTEM

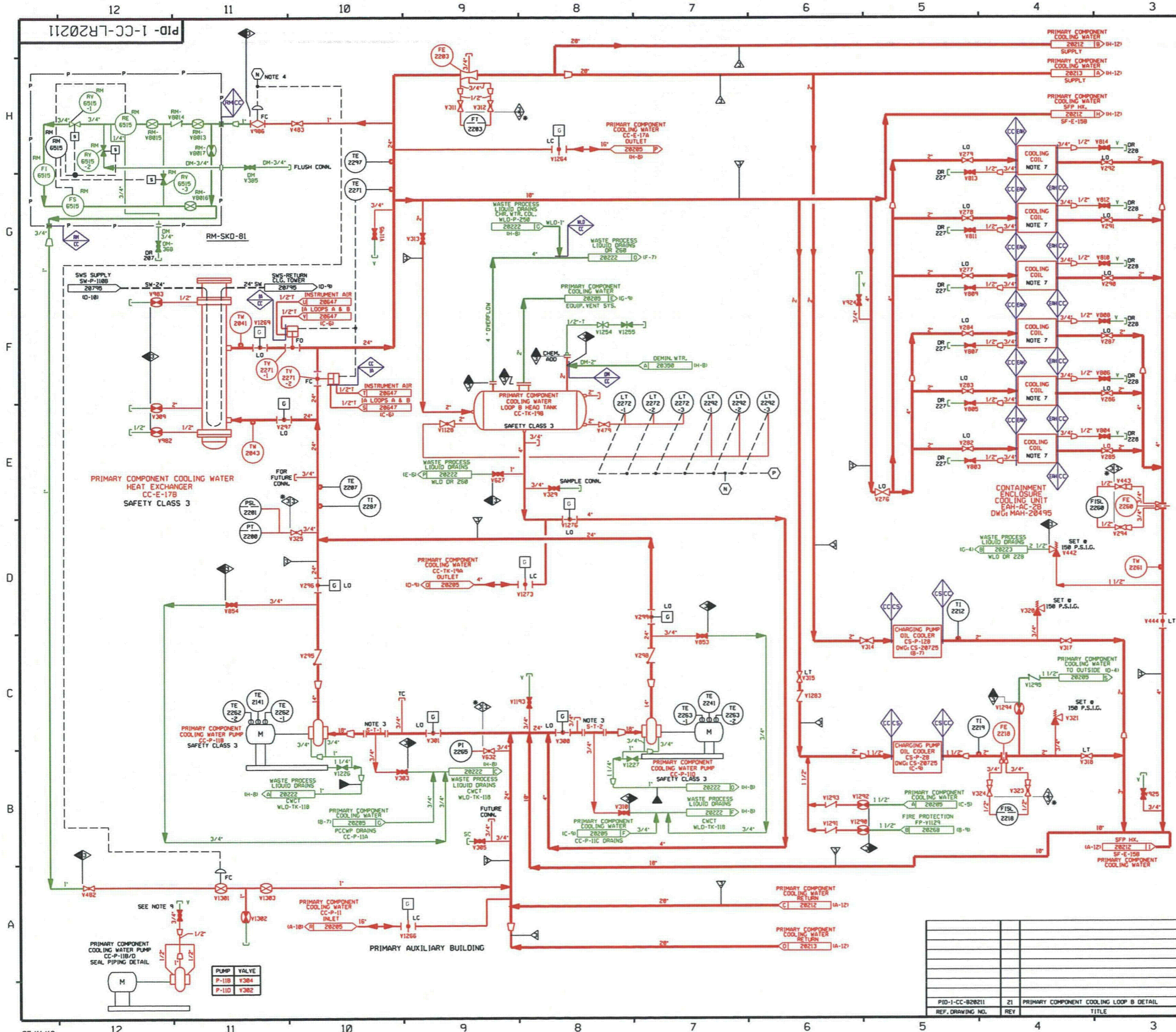
- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 28204 THRU 28208 & 28210 THRU 28215.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX '1-CC' UNLESS NOTED OTHERWISE.
 3. PERMANENT SPOOL PIECE INSTALLATION SHOWN. TEMPORARY STRAINER IS USED IN PLACE OF SPOOL PIECE DURING INITIAL FLUSHING OPERATION. STRAINER TO BE REMOVED BEFORE PLANT START-UP.
 4. EQUIPMENT ISOLATION VALVES INSIDE CONTAINMENT ARE OPERABLE FROM THE CONTAINMENT ANNULUS.
 5. VENT, DRAIN AND TEST CONN. CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-MW-880111 UNLESS OTHERWISE NOTED.
 6. △ INDICATES REVISION LEVEL.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

REV	DATE	DSGN	CHKD	CE	DESCRIPTION

PRIMARY COMPONENT COOLING THERMAL BARRIER LOOP
 DETAIL
 LICENSE RENEWAL P&ID
 PID-1-CC-LR20209

REF. DRAWING NO.	REV	TITLE
PID-1-CC-B28209	18	PRIMARY COMPONENT COOLING THERMAL BARRIER LOOP



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

COMPONENTS SUBJECT TO AMR
 RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
 BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
 GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

▲ PIPE ANCHOR

◇ INDICATES SYSTEM BOUNDARY INTERFACE

DM - DEMINERALIZED WATER SYSTEM
 CC - PRIMARY COMPONENT COOLING SYSTEM
 IA - INSTRUMENT AIR SYSTEM
 RM - RADIATION MONITORING SYSTEM
 WLD - WASTE PROCESSING LIQUID DRAINS SYSTEM
 CS - CHEMICAL & VOLUME CONTROL SYSTEM
 EAH - CONTAINMENT ENCLOSURE AIR HANDLING SYSTEM

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 28204 THROUGH 28215.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX "1-CC" UNLESS NOTED OTHERWISE.
 3. PERMANENT SPOOL PIECE INSTALLATION SHOWN. TEMPORARY STRAINER IS USED IN PLACE OF SPOOL PIECE DURING INITIAL FLUSHING OPERATION STRAINER TO BE REMOVED BEFORE PLANT START-UP.
 4. (N) CLOSE ON HEAD TANK TK-198 LOW LEVEL SIGNAL TO CC-Y447 AND CC-Y448 ON DNG CC-28212, AND CC-Y196, Y197 ON THIS DNG (A-11).
 5. (P) SIGNAL TO CC-Y175, CC-Y176, CC-Y256 & CC-Y257 ON DNG CC-28213
 6. VENT & DRAIN CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-MHT-080111 UNLESS OTHERWISE NOTED.
 7. △ - INDICATES REVISION LEVEL.
 8. CONTAINMENT ENCLOSURE AIR HANDLING FOR AC-28 SEE DNG 1-MAH-28495 (B-S).
 9. CONNECTION TO BE USED FOR FLUSHING SEE DNG DM-28358 (E-10) & NOTE 6.
 10. QUICK DISCONNECTS MAY BE INSTALLED UPSTREAM OF PIPE CAPS AS DEEMED NECESSARY BY STATION STAFF TO FACILITATE VENT AND DRAIN OPERATIONS.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

REV	DATE	DSGN	CHKD	CE	DESCRIPTION

ORIGINAL ISSUE

NEXTERA ENERGY
SEABROOK

PRIMARY COMPONENT COOLING LOOP "B" DETAIL
LICENSE RENEWAL P&ID

PID-1-CC-LR20211

SEABROOK STATION

REV	DATE	DSGN	CHKD	CE	DESCRIPTION

PID-1-CC-28211 21 PRIMARY COMPONENT COOLING LOOP B DETAIL

REF. DRAWING NO. REV TITLE

PID-1-CC-LR20212

FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

- LR NOTES:
1. PIPING ENTERS THE WASTE PROCESSING BUILDING WHICH HAS NO SAFETY RELATED COMPONENTS OR PIPING.
 2. PIPE SUPPORT EQUIVALENT ANCHOR
ISO DWG NO.: 1-CC-799-03
HANGER NO.: 799-RG-11 & M/S-865-03-799-SG-03
CAL. NO.: MCD 585.20-CAL
 3. PIPE SUPPORT EQUIVALENT ANCHOR
ISO DWG NO.: 1-CC-865-04
HANGER NO.: 865-RG-11A & M/S-865-03
CAL. NO.: MCD 585.40-CAL
 4. CHILLER CS-E-18 IS IN DRY LAY-UP AND HAS NO LICENSE RENEWAL (LR) INTENDED FUNCTION AND IS NOT IN SCOPE.

COMPONENTS SUBJECT TO AMR
RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

- ▲ PIPE ANCHOR
- ◇ INDICATES SYSTEM BOUNDARY INTERFACE
 CC - PRIMARY COMPONENT COOLING SYSTEM
 SB - STEAM GENERATOR BLOWDOWN SYSTEM
 CS - CHEMICAL & VOLUME CONTROL SYSTEM
 SF - SPENT FUEL POOL COOLING SYSTEM

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 28204 THRU 28215.
 2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX 1-CC UNLESS NOTED OTHERWISE.
 3. INSTRUMENT REFERENCES
 (B) FROM SB-PT-3A DWG. 1-SB-28629
 (F) FROM SB-TE-7A DWG. 1-SB-28629
 (G) FROM SB-TE-15A DWG. 1-SB-28629
 (H) FROM SB-PT-3C DWG. 1-SB-28631
 (I) FROM SB-TE-7C DWG. 1-SB-28631
 (J) FROM SB-TE-15C DWG. 1-SB-28631
 (K) FROM SB-TE-6952 DWG. 1-SB-28627
 (L) CLOSE ON HEAD TANK TK-198 LOW LEVEL SIGNAL.
 (P) TO CS-PS-374A DWG. 1-CS-28727
 4. VENT & DRAIN CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-WHY-885111 UNLESS OTHERWISE NOTED.
 5. OPERATING BANDS OF THESE CONTROL VALVES ARE ADJUSTED SUCH THAT THESE VALVES ARE CONTROLLED BETWEEN 5 TO 100% OPEN POSITION.
 6. △ - INDICATES REVISION LEVEL.
 7. DELETED.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

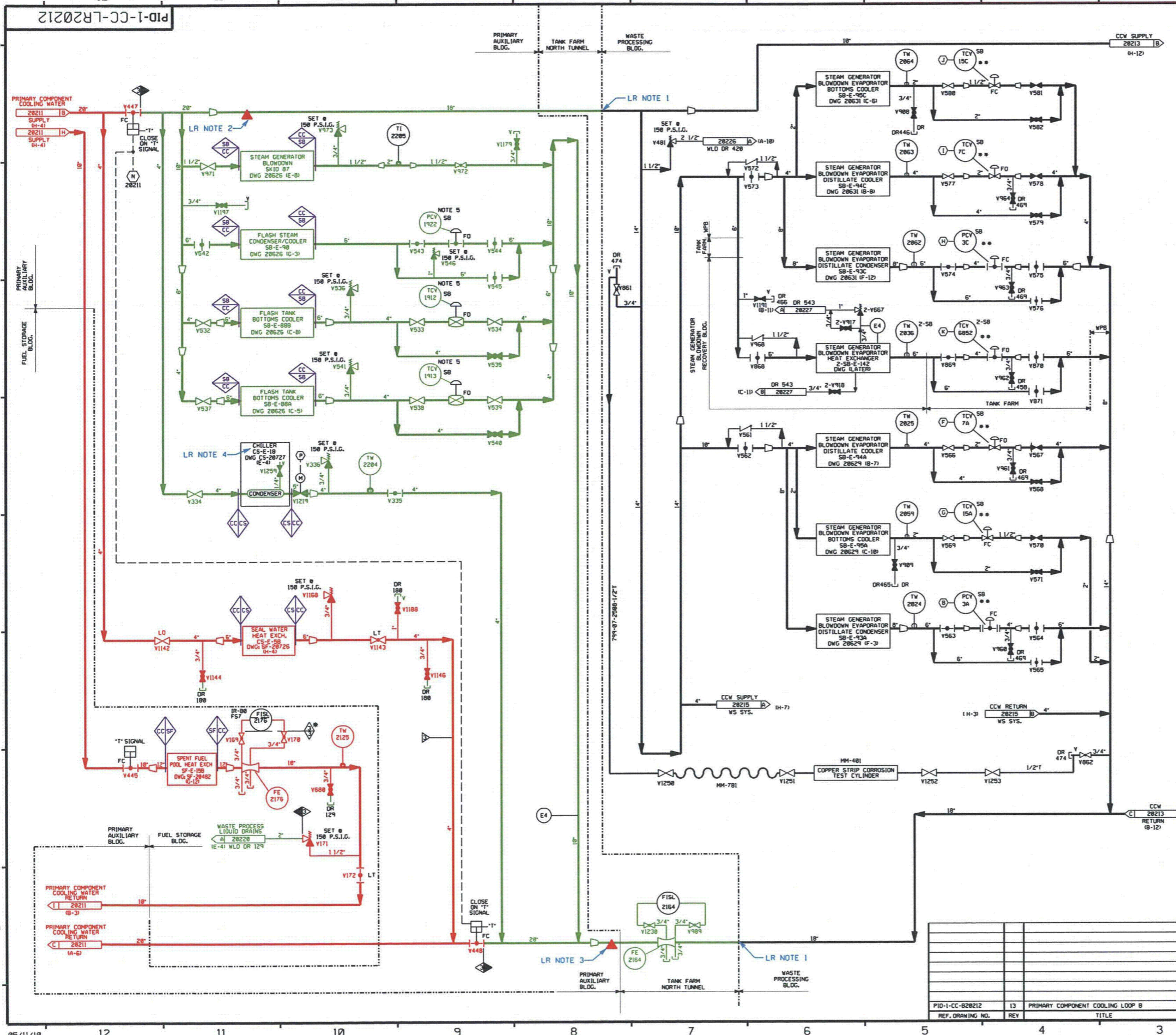
REV	DATE	OSCN	CHKD	CE	DESCRIPTION

ORIGINAL ISSUE

NEXTERA ENERGY
SEABROOK

PRIMARY COMPONENT COOLING LOOP B
 DETAIL
 LICENSE RENEWAL P&ID

PID-1-CC-LR20212



05/11/10

12 11 10 9 8 7 6 5 4 3 2 1

A

B

C

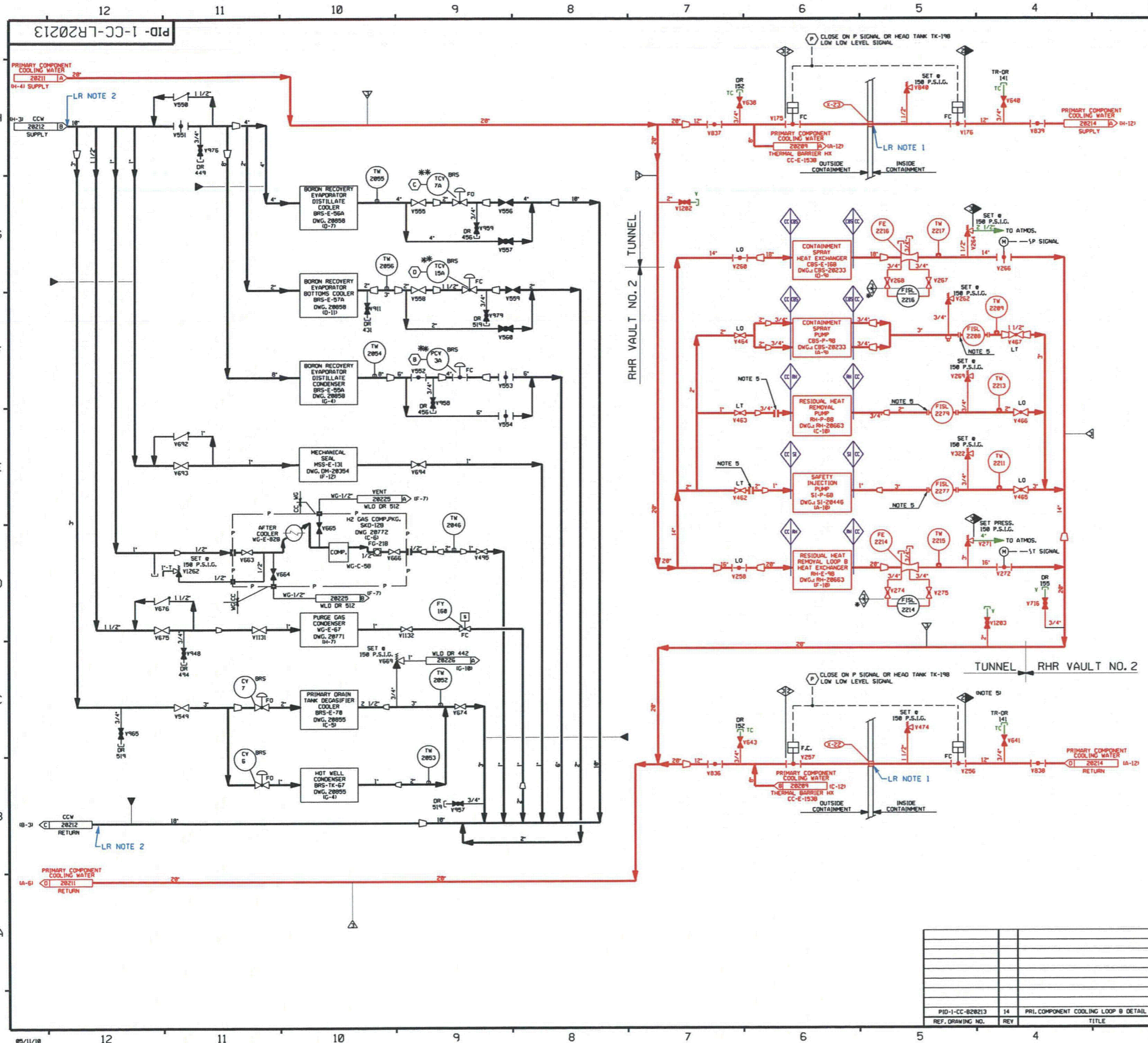
D

E

F

G

H



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

LR NOTES:
 1. COMPONENTS DESIGNATED AS X-22 & X-23 ARE CONTAINMENT PENETRATIONS THAT ARE EVALUATED UNDER THE CIVIL STRUCTURAL SYSTEM LRSP-CNT.
 2. THE COMPONENTS IN THIS LOOP ARE NOT IN SCOPE AS THEY ARE NOT SAFETY RELATED, ARE LOCATED IN THE WASTE PROCESSING BUILDING (WPB) WHICH CONTAINS NO SAFETY RELATED COMPONENTS, AND SUPPORT NO REGULATED EVENTS.


COMPONENTS SUBJECT TO AMR
 RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.41(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
 BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
 GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.41(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

PIPE ANCHOR
 (Symbol: diamond with 'X') INDICATES SYSTEM BOUNDARY INTERFACE
 CBS - CONTAINMENT SPRAY SYSTEM
 CC - PRIMARY COMPONENT COOLING SYSTEM
 RH - RESIDUAL HEAT REMOVAL SYSTEM
 SI - SAFETY INJECTION SYSTEM

NOTES:
 1. WORK THIS DRAWING WITH DRAWINGS 28204 THRU 28215.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX 1-CC UNLESS NOTED OTHERWISE.
 3. INSTRUMENT REFERENCES
 (B) FROM BRS-PT-3A DWG. 28058
 (C) FROM BRS-TE-7A DWG. 28058
 (D) FROM BRS-TE-15A DWG. 28058
 4. VENT & DRAIN CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-WY-880111 UNLESS OTHERWISE NOTED.
 5. UNION OR FLANGED CONNECTION USED FOR PRE-PLANNED MAKEUP STRATEGY. SEE FP59989.

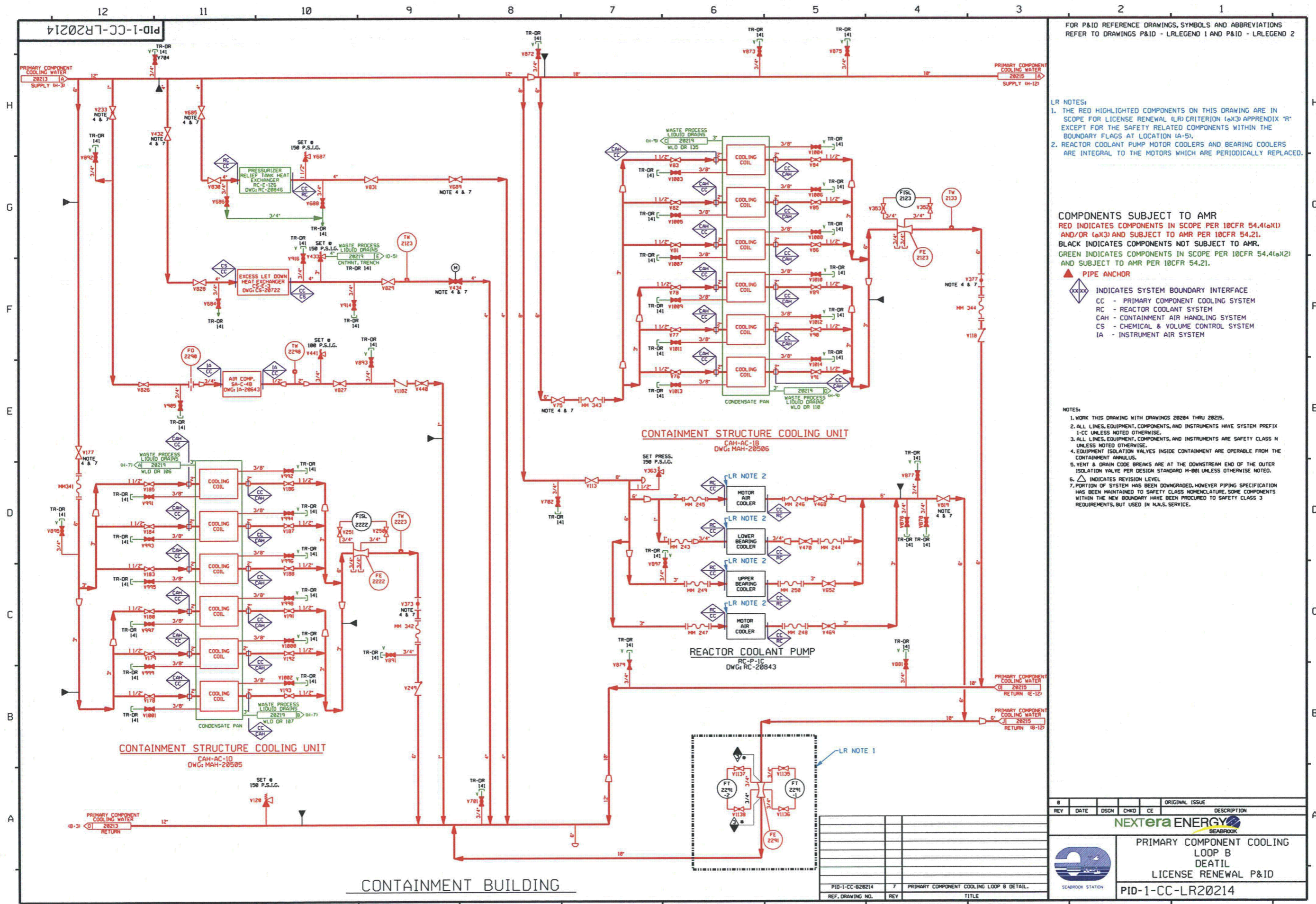
PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

REV	DATE	DSGN	CHWD	CE	ORIGINAL ISSUE	DESCRIPTION


SEABROOK STATION
 PRIMARY COMPONENT COOLING LOOP B
 DETAIL
 LICENSE RENEWAL P&ID
 PID-1-CC-LR20213

REF. DRAWING NO.	REV	TITLE
PID-1-CC-820213	14	PRI. COMPONENT COOLING LOOP B DETAIL P&ID

PID-1-CC-LR20214



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

- LR NOTES:
1. THE RED HIGHLIGHTED COMPONENTS ON THIS DRAWING ARE IN SCOPE FOR LICENSE RENEWAL (LR) CRITERION (10)(3) APPENDIX 'R' EXCEPT FOR THE SAFETY RELATED COMPONENTS WITHIN THE BOUNDARY FLAGS AT LOCATION (A-5).
 2. REACTOR COOLANT PUMP MOTOR COOLERS AND BEARING COOLERS ARE INTEGRAL TO THE MOTORS WHICH ARE PERIODICALLY REPLACED.

COMPONENTS SUBJECT TO AMR
 RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
 BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
 GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

- PIPE ANCHOR**
 INDICATES SYSTEM BOUNDARY INTERFACE
 CC - PRIMARY COMPONENT COOLING SYSTEM
 RC - REACTOR COOLANT SYSTEM
 CAH - CONTAINMENT AIR HANDLING SYSTEM
 CS - CHEMICAL & VOLUME CONTROL SYSTEM
 IA - INSTRUMENT AIR SYSTEM

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20204 THRU 20215.
 2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX 1-CC UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS ARE SAFETY CLASS N UNLESS NOTED OTHERWISE.
 4. EQUIPMENT ISOLATION VALVES INSIDE CONTAINMENT ARE OPERABLE FROM THE CONTAINMENT ANNULUS.
 5. VENT & DRAIN CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER DESIGN STANDARD M-881 UNLESS OTHERWISE NOTED.
 6. INDICATES REVISION LEVEL.
 7. PORTION OF SYSTEM HAS BEEN DOWNGRADED, HOWEVER PIPING SPECIFICATION HAS BEEN MAINTAINED TO SAFETY CLASS NOMENCLATURE. SOME COMPONENTS WITHIN THE NEW BOUNDARY HAVE BEEN PROCURED TO SAFETY CLASS 3 REQUIREMENTS, BUT USED IN N.M.S. SERVICE.

REV	DATE	DSGN	CHD	CE	ORIGINAL ISSUE	DESCRIPTION

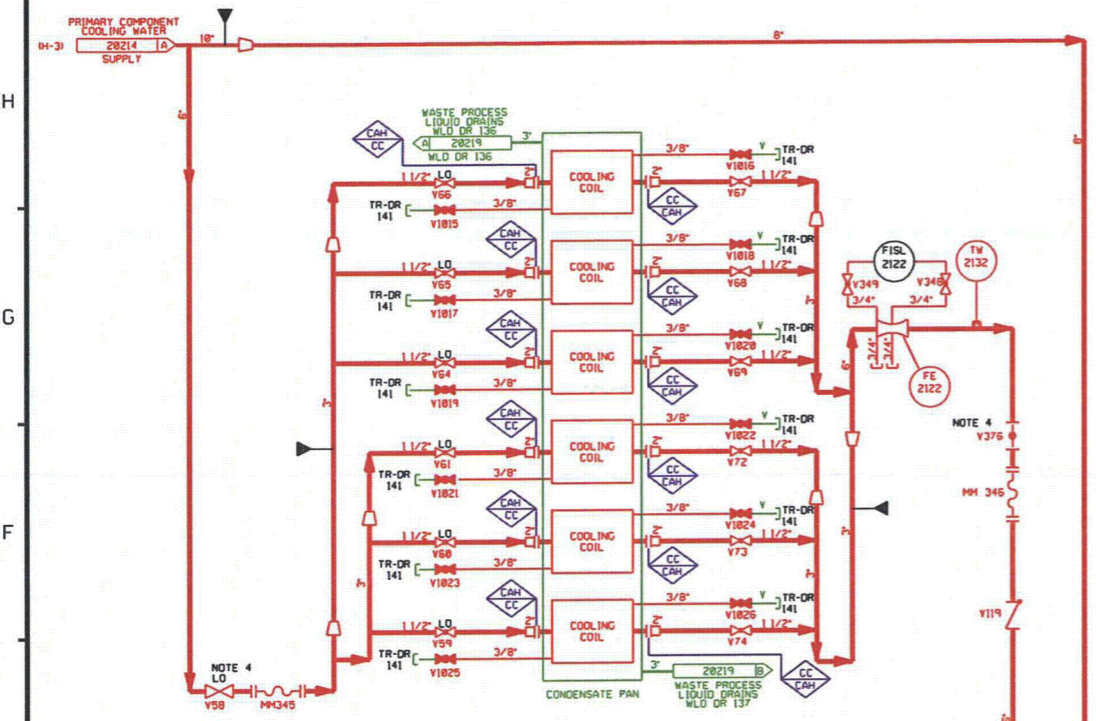
NEXTERA ENERGY

 SEABROOK STATION

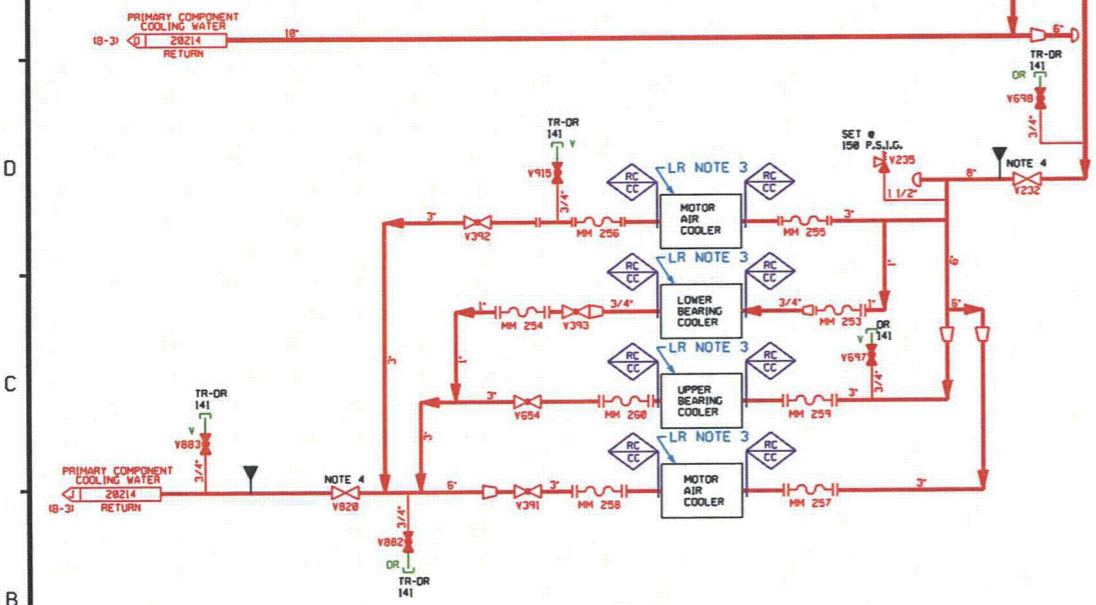
PRIMARY COMPONENT COOLING LOOP B DETAIL
 LICENSE RENEWAL P&ID
 PID-1-CC-LR20214

PID-1-CC-LR20215

CONTAINMENT STRUCTURE

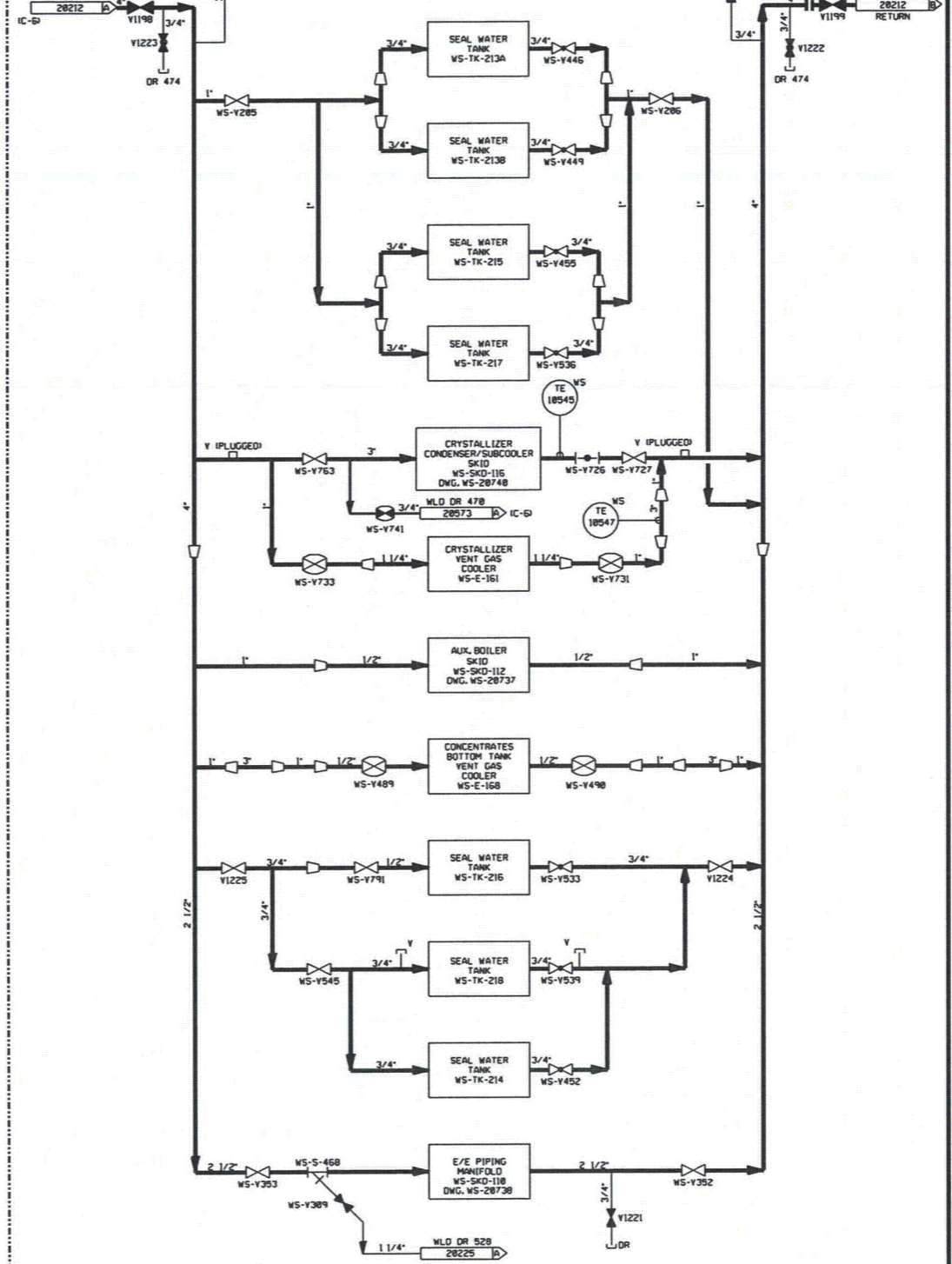


CONTAINMENT STRUCTURE COOLING UNIT
CAH-AC-1A
DWG: MAH-20586



REACTOR COOLANT PUMP
RC-P-1B
DWG: RC-20842

WASTE PROCESSING BLDG.
LR NOTE 1



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

- LR NOTES:
1. THE WASTE PROCESSING BUILDING CONTAINS NO SAFETY RELATED COMPONENTS.
 2. THE RED HIGHLIGHTED COMPONENTS ON THIS DRAWING ARE IN LICENSE RENEWAL(LR) SCOPE FOR CRITERION (a)(3) APPENDIX 'R'.
 3. REACTOR COOLANT PUMP MOTOR COOLERS AND BEARING COOLERS ARE INTEGRAL TO THE MOTORS WHICH ARE PERIODICALLY REPLACED.

COMPONENTS SUBJECT TO AMR
RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

- ▲ PIPE ANCHOR
- ◇ (with xxx) INDICATES SYSTEM BOUNDARY INTERFACE
- CC - PRIMARY COMPONENT COOLING SYSTEM
 RC - REACTOR COOLANT SYSTEM
 CAH - CONTAINMENT AIR HANDLING SYSTEM

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS B20204 THRU B20214.
 2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX I-CC UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS N UNLESS NOTED OTHERWISE.
 4. EQUIPMENT ISOLATION VALVES INSIDE CONTAINMENT ARE OPERABLE FROM THE CONTAINMENT ANNULUS.
 5. DELETED

REV	DATE	OSGN	CHKD	CE	DESCRIPTION

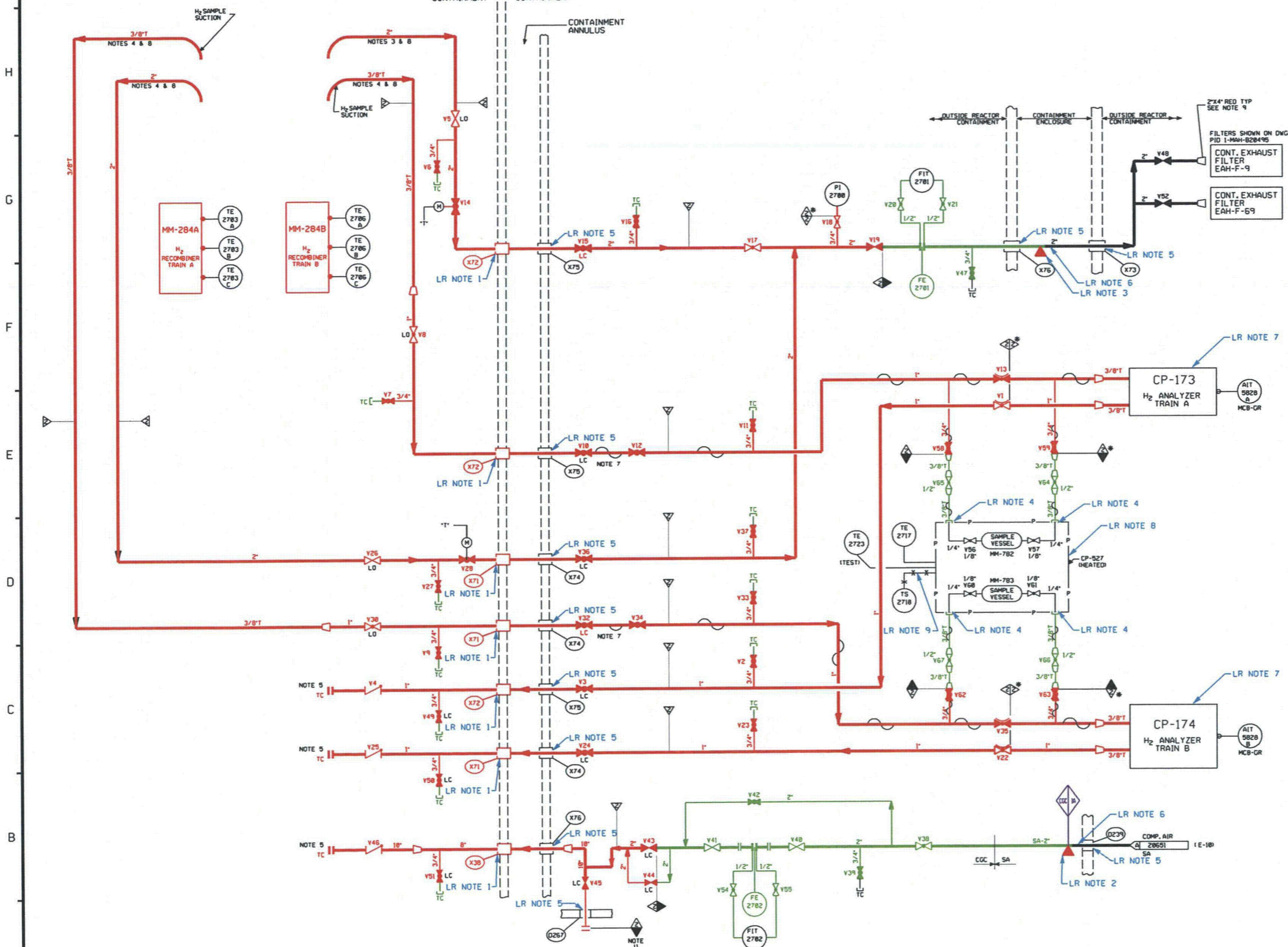
ORIGINAL ISSUE

NEXTERA ENERGY
SEABROOK

PRIMARY COMPONENT COOLING LOOP B DETAIL
 LICENSE RENEWAL P&ID
 PID-1-CC-LR20215

SEABROOK STATION

PID-1-CGC-LR20612



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

COMPONENTS SUBJECT TO AMR
 RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
 BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
 GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

PIPE ANCHOR
 INDICATES SYSTEM BOUNDARY INTERFACE
 CGC - COMBUSTIBLE GAS CONTROL SYSTEM
 IA - INSTRUMENT AIR SYSTEM

- NOTES:**
- THIS IS A ONE DRAWING SYSTEM.
 - ALL PIPING, VALVES, EQUIPMENT & INSTRUMENTS HAVE SYSTEM PREFIX CGC, UNLESS NOTED OTHERWISE.
 - PIPE IS TERMINATED INSIDE THE CONTAINMENT AT THE 103'-6" ELEV. & NEAR SAME AZIMUTH AS PENETRATION.
 - PIPE IS EXTENDED INSIDE CONTAINMENT 180° FROM PENETRATION & TERMINATES AT 103'-6" ELEV.
 - PIPE TERMINATES INSIDE THE CONTAINMENT AT 26'-3" ELEV. NEAR THE PENETRATION, USE BLIND FLANGE FOR TC. REMOVE FOR NORMAL OPERATION.
 - BLIND FLANGE WITH TC FITTING FOR PENETRATION LR TEST. REMOVE FOR NORMAL OPERATION.
 - HEAT TRACED TO 380° F
 - H₂ SAMPLE SUCTION AND PURGE LINES TERMINATE IN A 90° ELBOW WITH OPEN END POINTING DOWN.
 - EACH 4" X 2" RED. IS CENTERED IN THE FILTER INLET OPENING AND LOCATED 5" TO 6" AWAY FROM THE FACE OF THE SCREEN.
 - DELETED
 - BLIND FLANGE REMOVED FOR CONNECTION TO POTABLE AIR COMPRESSORS FOR CONTAINMENT LEAK TEST AND PRESSURIZATION. CONNECTION USED FOR PRE-PLANNED MAKEUP STRATEGY. SEE FP99989.
 - DELETED
 - VENTS, DRAINS AND TEST CONNECTIONS CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER DESIGN STANDARD I-NHT-880511 UNLESS NOTED.
 - △ INDICATES REVISION LEVEL

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

- LR NOTES:**
- COMPONENTS X-38, X-71 & X-72 ARE CONTAINMENT PENETRATIONS THAT ARE EVALUATED UNDER THE CIVIL STRUCTURAL SYS LRSP-CNT.
 - PIPE SUPPORT EQUIVALENT ANCHOR
 ISO DWG: 9763-F-802807-641.20C
 HANGER DWG: M/S 2807-SG-14 HANGERS 2807-SG-14 & 2807-SG-15
 - PIPE SUPPORT EQUIVALENT ANCHOR
 ISO DWG: 9763-1-CGC-2803-13
 HANGER DWG: 2803-SG-43 AND 2803-RG-44
 - THE (A)(2) PIPING STOPS AT THE ATTACHMENT TO CGC-CP-527.
 - X-73, X-74, X-75, X-76, D-239 AND D-267 ARE PIPE SLEEVES.
 - PIPING AND COMPONENTS BEYOND THE EQUIVALENT ANCHOR HAVE AN AIR/GAS INTERNAL ENVIRONMENT AND HAVE NO INTENDED FUNCTION AND ARE NOT IN LR SCOPE.
 - ANALYZER PANELS CP-173 AND CP-174 ARE EVALUATED BY CIVIL GROUP AND THE PANELS INTERNAL COMPONENTS ARE IN SCOPE AND EVALUATED BY THE MECHANICAL GROUP.
 - COMPONENTS INSIDE SAMPLE PANEL CP-527 ARE NOT IN SCOPE SINCE THEY DO NOT PRESENT A LEAKAGE OR SPRAY ISSUE FOR CRITERION (a)(2).
 - CAPILLARY TUBING IS PART OF THE INSTRUMENT AND CONSIDERED AN ACTIVE COMPONENT PER NEI 95-10.

REV	DATE	DSGN	CHKD	CE	ORIGINAL ISSUE	DESCRIPTION

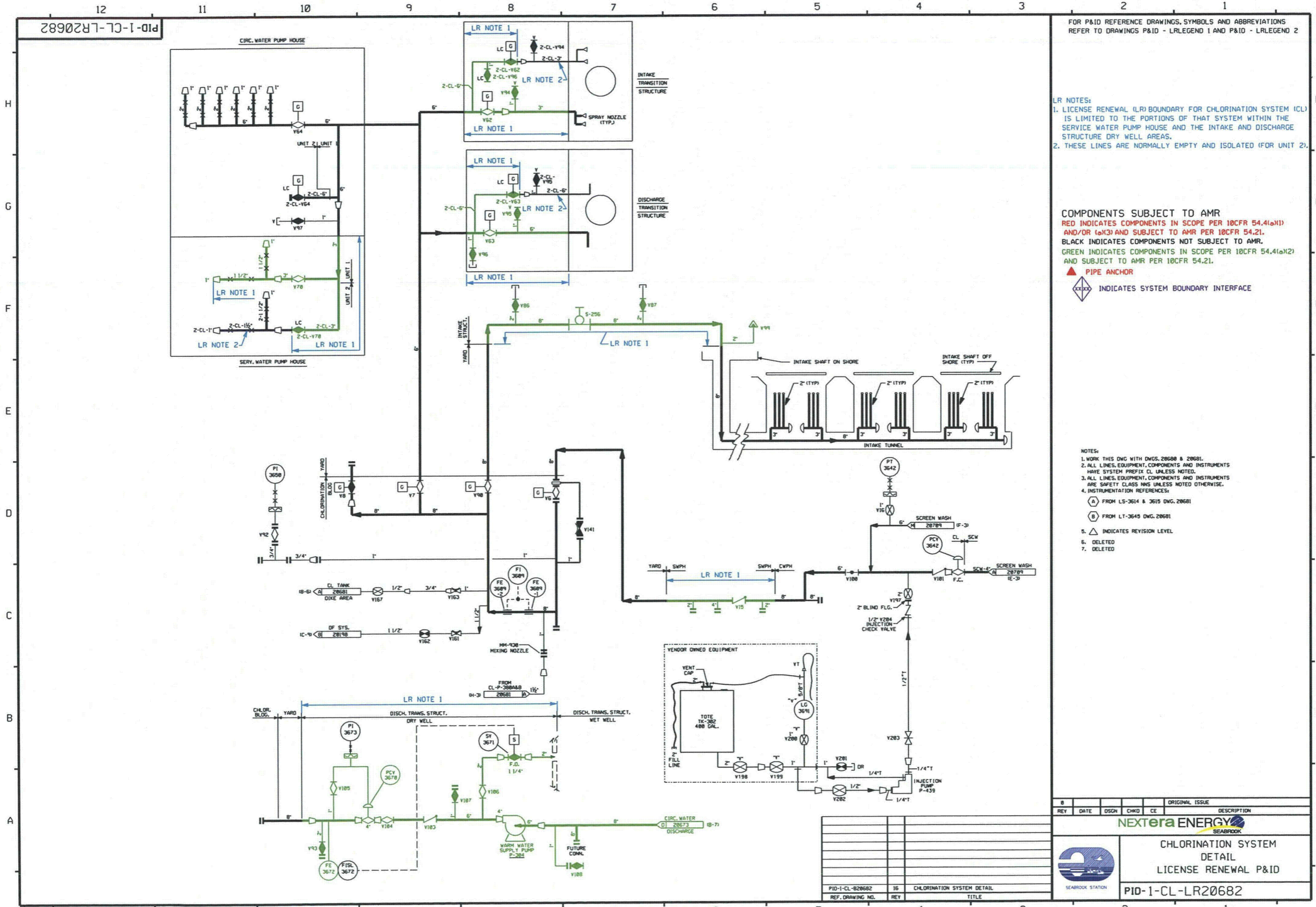
NEXTERA ENERGY
 SEABROOK

COMBUSTIBLE GAS CONTROL SYSTEM
 LICENSE RENEWAL P&ID

PID-1-CGC-LR20612

REF. DRAWING NO.	REV	TITLE
PID-1-CGC-828612	7	COMBUSTIBLE GAS CONTROL SYSTEM P&ID

PID-1-CL-LR20682



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

LR NOTES:
 1. LICENSE RENEWAL (LR) BOUNDARY FOR CHLORINATION SYSTEM (CL) IS LIMITED TO THE PORTIONS OF THAT SYSTEM WITHIN THE SERVICE WATER PUMP HOUSE AND THE INTAKE AND DISCHARGE STRUCTURE DRY WELL AREAS.
 2. THESE LINES ARE NORMALLY EMPTY AND ISOLATED (FOR UNIT 2).

COMPONENTS SUBJECT TO AMR
 RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
 BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
 GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.
 ▲ PIPE ANCHOR
 □ INDICATES SYSTEM BOUNDARY INTERFACE

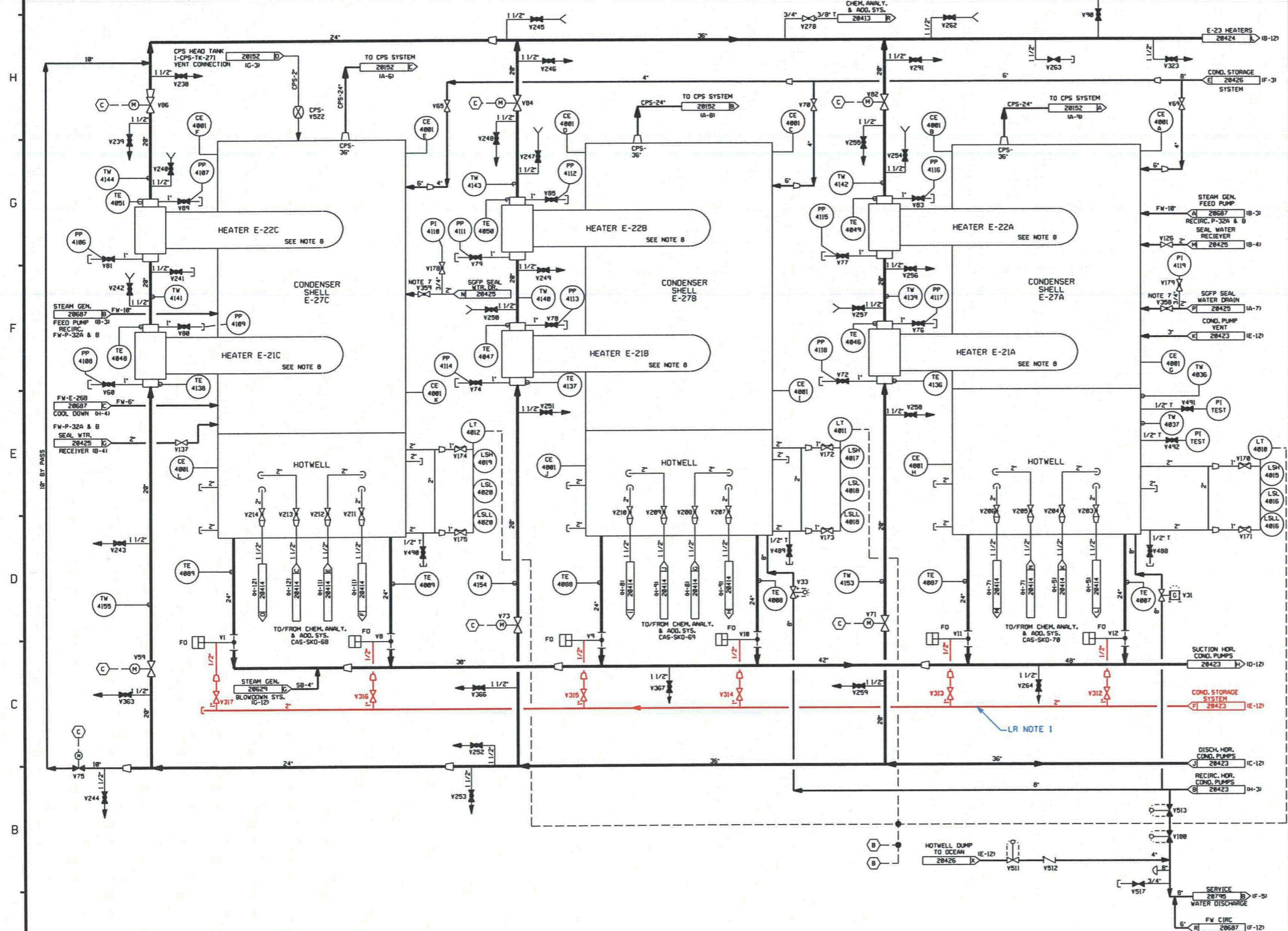
NOTES:
 1. WORK THIS DWG WITH DWGS. 20680 & 20681.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX CL UNLESS NOTED.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NWS UNLESS NOTED OTHERWISE.
 4. INSTRUMENTATION REFERENCES:
 (A) FROM LS-3614 & 3615 DNG. 20681
 (B) FROM LT-3645 DNG. 20681
 5. ▲ INDICATES REVISION LEVEL
 6. DELETED
 7. DELETED

REV	DATE	DSGN	CHKD	CE	ORIGINAL ISSUE	DESCRIPTION

CHLORINATION SYSTEM DETAIL LICENSE RENEWAL P&ID	
PID-1-CL-B20682 REF. DRAWING NO.	16 REV
CHLORINATION SYSTEM DETAIL TITLE	
PID-1-CL-LR20682	

PID-1-CO-LR20422

FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2



LR NOTES:
 1. THE COMPONENTS THAT ARE RED ON THIS DRAWING ARE IN SCOPE FOR CRITERION (a)(3) FIRE PROTECTION AND ALL OTHER COMPONENTS ON THIS DRAWING HAVE NO LICENSE RENEWAL INTENDED FUNCTION SO THEY ARE NOT IN SCOPE.

COMPONENTS SUBJECT TO AMR
 RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 10CFR 54.21.
 BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
 GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.4(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

▲ PIPE ANCHOR
 ◆ INDICATES SYSTEM BOUNDARY INTERFACE

NOTES:
 1. WORK THIS DRAWING WITH DRAWINGS 20420, 20423 THRU 20427.
 2. ALL LINES, VALVES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX CO, UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NMS, UNLESS NOTED OTHERWISE.
 4. INSTRUMENTATION REFERENCES:
 (B) TO COND. STORAGE SYSTEM, I-CO-LV-4014A & B ON DWG CO-20426.
 (C) HIGH-HIGH LEVEL TO CLOSE RESPECTIVE HEATER COND. INLET TO NO. 1 & OUTLET OF NO. 2 WHILE OPENING BYPASS VALVE I-CB-V75.
 5. DELETED
 6. △ - INDICATES REVISION LEVEL
 7. VALVES 358 & 359 TO BE MAINTAINED IN A THROTTLED POSITION TO PROVIDE A 68 PSIG NOMINAL BACK PRESSURE.
 8. FOR OTHER NOZZLES ON HEATERS I-CO-21A&B&C AND I-CO-E-22A&B&C SEE PID'S CO-20425 EX-20327 HO-20339 HO-20340 HO-20341

REV	DATE	DSGN	CHKD	CE	DESCRIPTION

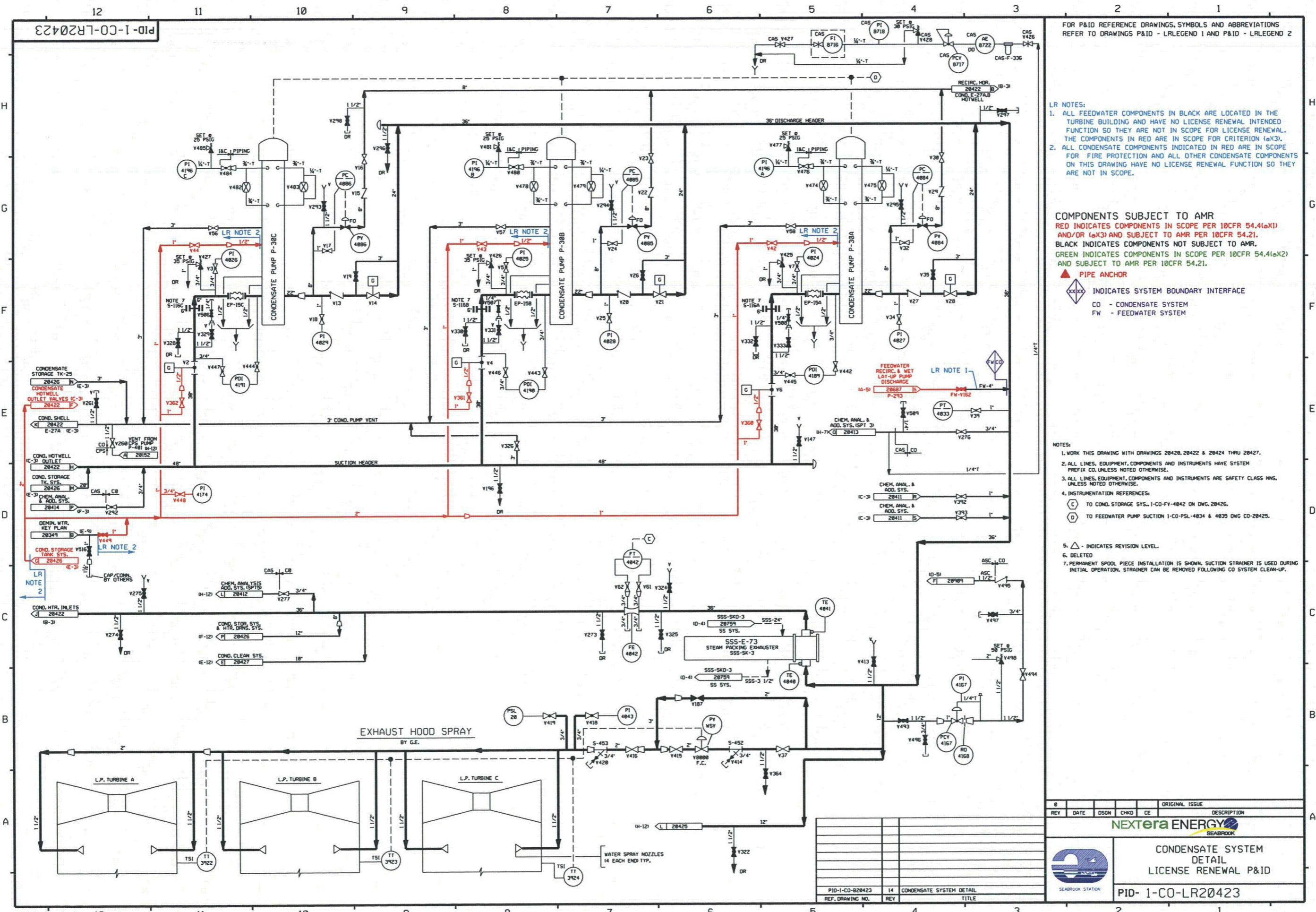
NEXTERA ENERGY
SEABROOK

CONDENSATE SYSTEM
DETAIL
LICENSE RENEWAL P&ID

PID-1-CO-LR20422

REF. DRAWING NO.	REV	TITLE
PID-1-CO-B20422	1B	CONDENSATE SYSTEM DETAIL

PID-1-CO-LR20423



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LRLEGEND 1 AND P&ID - LRLEGEND 2

- LR NOTES:
1. ALL FEEDWATER COMPONENTS IN BLACK ARE LOCATED IN THE TURBINE BUILDING AND HAVE NO LICENSE RENEWAL INTENDED FUNCTION SO THEY ARE NOT IN SCOPE FOR LICENSE RENEWAL. THE COMPONENTS IN RED ARE IN SCOPE FOR CRITERION 10X3.
 2. ALL CONDENSATE COMPONENTS INDICATED IN RED ARE IN SCOPE FOR FIRE PROTECTION AND ALL OTHER CONDENSATE COMPONENTS ON THIS DRAWING HAVE NO LICENSE RENEWAL FUNCTION SO THEY ARE NOT IN SCOPE.

COMPONENTS SUBJECT TO AMR
 RED INDICATES COMPONENTS IN SCOPE PER 10CFR 54.41(a)(1) AND/OR 10X3 AND SUBJECT TO AMR PER 10CFR 54.21.
 BLACK INDICATES COMPONENTS NOT SUBJECT TO AMR.
 GREEN INDICATES COMPONENTS IN SCOPE PER 10CFR 54.41(a)(2) AND SUBJECT TO AMR PER 10CFR 54.21.

- ▲ PIPE ANCHOR
- ◇(XXX) INDICATES SYSTEM BOUNDARY INTERFACE
- CO - CONDENSATE SYSTEM
- FW - FEEDWATER SYSTEM

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20420, 20422 & 20424 THRU 20427.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX CO, UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NMS, UNLESS NOTED OTHERWISE.
 4. INSTRUMENTATION REFERENCES:
 - (C) TO COND. STORAGE SYS., 1-CO-FY-484 ON DWG. 20426.
 - (D) TO FEEDWATER PUMP SUCTION 1-CO-PSL-4834 & 4835 DWG CO-20425.
 5. △ - INDICATES REVISION LEVEL.
 6. DELETED
 7. PERMANENT SPOOL PIECE INSTALLATION IS SHOWN. SUCTION STRAINER IS USED DURING INITIAL OPERATION. STRAINER CAN BE REMOVED FOLLOWING CO SYSTEM CLEAN-UP.

REV	DATE	DSGN	CHKD	CE	ORIGINAL ISSUE	DESCRIPTION

CONDENSATE SYSTEM
 DETAIL
 LICENSE RENEWAL P&ID

PID-1-CO-LR20423

05/11/10