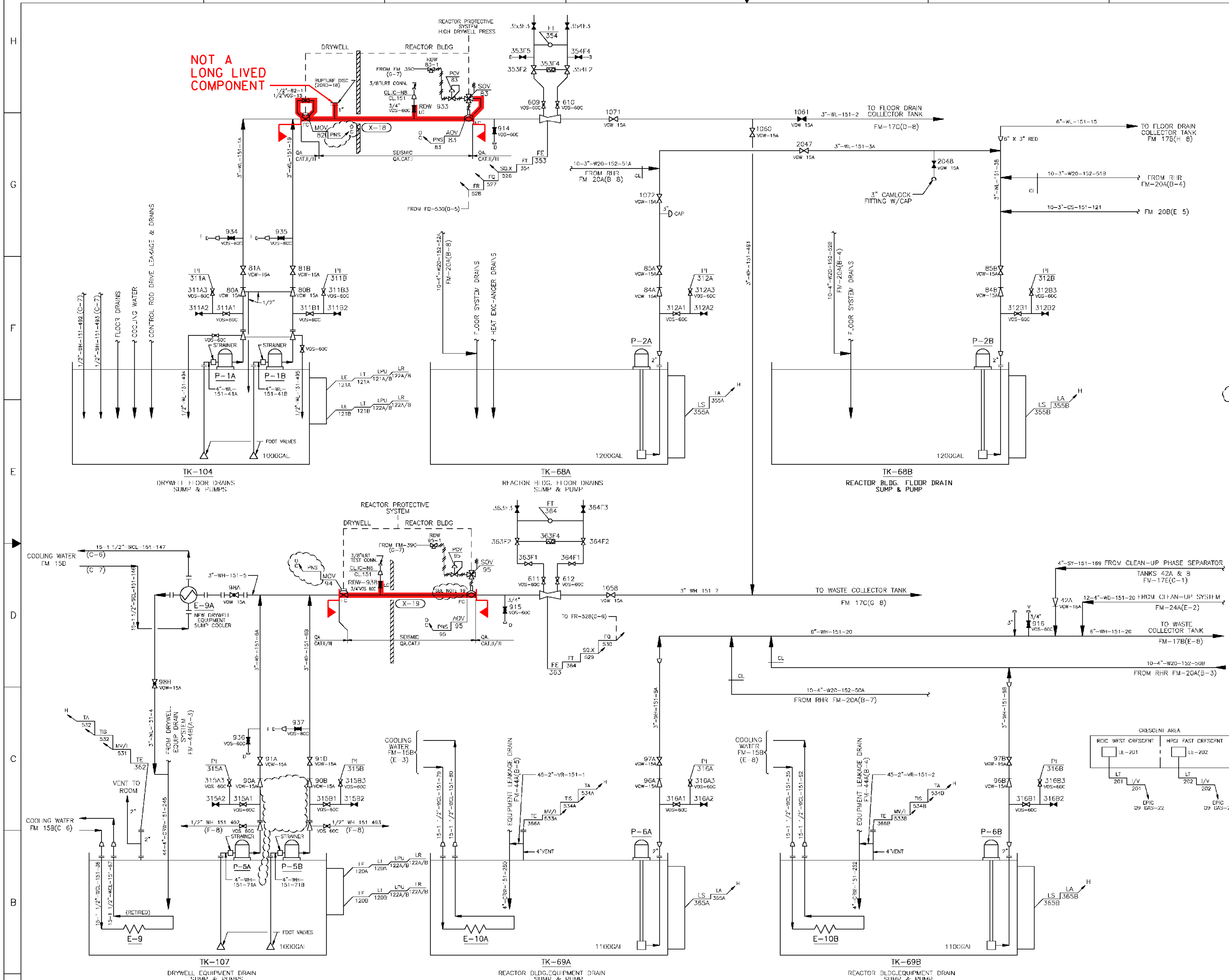

NOTES

1. ALL COMPONENT MARK NUMBERS PREFIXED 20 UNLESS OTHERWISE NOTED.
2. ALL MANUAL VALVES PREFIXED RDW UNLESS OTHERWISE NOTED.
3. EQUIPMENT DRAINS & PUMP SEALS SHALL BE ROUTED TO EQUIPMENT DRAIN OR FLOOR DRAIN SYSTEM AND NOT FLOW FREELY ACROSS THE FLOOR.
4. ALL RADWASTE ALARMS WILL BE ON AN ANNUNCIATOR ON THE RADWASTE CONTROL ROOM PANEL, EXCEPT DRYWELL EQUIPMENT SHALL ALARM IN MAIN CONTROL ROOM. A COMMON TROUBLE ALARM FROM THE RADWASTE ANNUNCIATOR SHALL ALARM IN THE MAIN CONTROL ROOM.
5. ALL CONTROLLERS TO HAVE "MANUAL AUTOMATIC" CONTROL STATIONS.
6. ALL VALVES WITH AIR OR MOTOR OPERATORS ARE TO HAVE POSITION INDICATING LIGHTS ON THE ASSOCIATED PANEL FOR BOTH OPEN & CLOSED POSITIONS.
7. OPERATING STATUS LIGHTS FOR DRYWELL SUMP PUMPS WILL BE LOCATED ON MAIN CONTROL PANEL. ALL OTHER PUMPS, CENTRIFUGES, MIXER & CONVEYOR WILL HAVE OPERATING STATUS LIGHTS ON THE RADWASTE PANEL.
8. SUMP PUMPS WILL START AUTOMATICALLY ON HIGH LEVEL AND STOP AUTOMATICALLY ON LOW LEVEL. OPERATING TIME WILL BE TOTALLIZED ON EACH SUMP PUMP.
9. COLLECT DRAIN PIPING TO SUMPS AND REVISE TO CONFORM TO PIPING LAYOUT. THE ONLY DRAINS REQUIRING DIRECT ROUTING ARE THOSE INDICATED COMING FROM OTHER DRAWINGS.
10. INCOMING PIPING TO SUMPS SHALL TERMINATE BELOW LOW WATER LEVEL TO PROVIDE A WATER SEAL. OFF GAS LINE DRAINS SHALL BE SEALED AS ABOVE OR WITH LOOP SEALS SUFFICIENT TO PREVENT OFF GASES FROM ENTERING SUMP.
11. ALL PIPING AND VALVES PRESSURE/TEMPERATURE REQUIREMENTS ARE APPROXIMATE 150 PSIG/150°F
12. ALL ILRT CONNECTIONS (I) ARE PIPING CLASS IC-N8 BEGINNING AT THE DOWNSTREAM SIDE OF THE REDUCER TO THE 3/8" ILRT CONNECTION.
13. ALL PIPING CLASS 151 & 153 WILL BE RADIOGRAPHED IN SYS. 20 PER AP 2.3.
14. PIPE CLASS 136 WILL USE BONDSTRAND SERIES 2000 PIPE.
15. ALL SYSTEM 20 PUMPS WHICH REQUIRE SEAL WATER WILL HAVE SOLENOID VALVES ON SEAL WATER LINES WHICH OPEN DURING PUMP OPERATION.THE SEAL WATER WILL BE CONDENSATE.
16. F.O. DENOTES FLUSH OUT.ALL F.O.'S ARE 1" CONNECTIONS & HAVE 1" VCS-60B UNLESS OTHERWISE NOTED.
17. ALL OUTDOOR PIPING IN THE AREA OF THE WASTE SURGE TANK TK 18, WILL BE HEAT TRACED.
18. FC DENOTES CLOSE ON AIR FAILURE.
19. VALVE AOV-95 OPENS DURING PUMP OUT OF THE DRYWELL EQUIPMENT SUMP. MANUAL OPERATING MECHANISM LOCKED DISENGAGED.

REFERENCES:

1. FLOW DIAGRAM SYMBOLS FM 14A.

SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

PRIMARY CONTAINMENT PENETRATIONS AMM-17

QA CAT.I,II/III

REV NO	DATE	DESCRIPTION	DWN	CHK	RE	VFY	APP
35	3/5/03	AS BUILT PER DCR-03-020 & DCR-03-055	KMB	JB	--	KM	JMF
34	10/28/00	AS BUILT PER MOD NO JD-99-093	RVB	PJD		MM	SKK
33	6/28/00	AS BUILT PER DCR-00-142	PJD	KMB	--	KM	SKK
32	10/25/98	AS BUILT PER MOD. NO. M1-98-081	RVB	JB	--	KJ	SKK
31	3/25/98	AS BUILT PER DCR-98-018	KMB	RVB	--	KF	SKK

REVISIONS

NUCLEAR SAFETY RELATED

James A. Fitzpatrick
NUCLEAR POWER PLANT

DWN | CHK'D | DES SUPV | DISCIPLINE ENG | DISCIPLINE MGR. | PROJ APPROVAL | DATE

FLOW DIAGRAM
RADWASTE
SYSTEM 20

Entergy Nuclear Northeast

SCALE NONE
DWG NO FM-17A
REV 35
SHEET 1 OF 1

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	3-3-06	.	.	.	.	.

REVISIONS

LRA-FM-17A-0

CAD FILE LRA-FM-17A_35.DGN

RASTER FILE FM-17A_35.CAL