

DRAWING NUMBER  
**FM-17A**

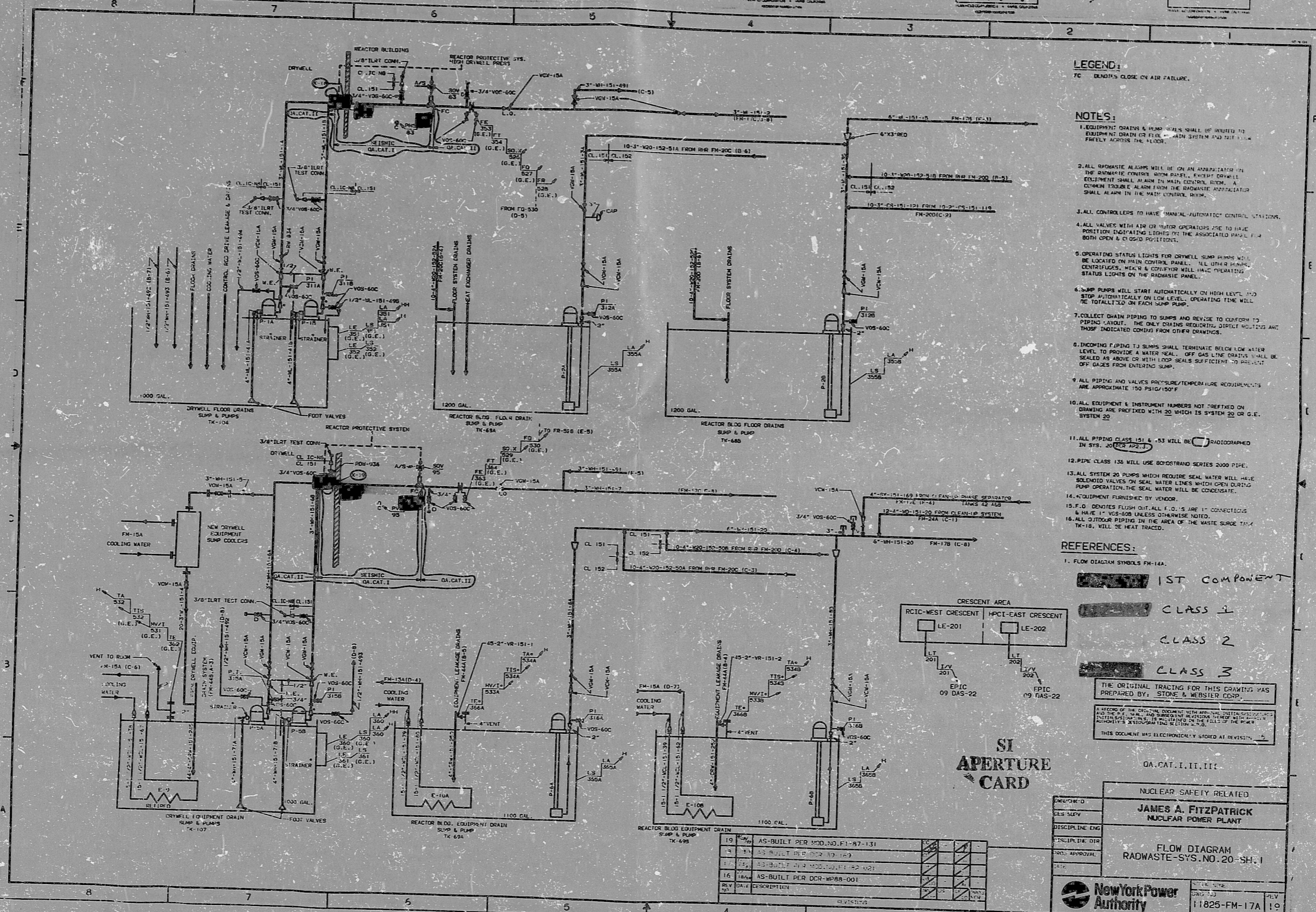
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**UNCONTROLLED DRAWING**  
Copy Date 5/11/92  
Caution-Extended use of this drawing copy may result in its inaccuracy due to subsequent drawing changes and drawing updates.

DRAWING NUMBER  
**REV 17**



- LEGEND:**  
FC DENOTES CLOSE ON AIR FAILURE.
- NOTES:**
- EQUIPMENT DRAINS & FLOOR DRAINS SHALL BE DESIGNED TO EQUIPMENT DRAIN OR FLOOR DRAIN SYSTEM AND NOT TO FREELY DISCHARGE TO THE FLOOR.
  - ALL RADWASTE ALARMS WILL BE ON AN OPERATOR IN THE RADWASTE CONTROL ROOM PANEL. EXCEPT DRYWELL EQUIPMENT SHALL ALARM IN MAIN CONTROL ROOM. EQUIPMENT TO BE ALARM FROM THE RADWASTE OPERATOR SHALL ALARM IN THE MAIN CONTROL ROOM.
  - ALL CONTROLLERS TO HAVE MANUAL/AUTOMATIC CONTROL STATIONS.
  - ALL VALVES WITH AIR OR MOTOR OPERATORS ARE TO HAVE POSITION INDICATING LIGHTS IN THE ASSOCIATED PANEL FOR BOTH OPEN & CLOSED POSITIONS.
  - OPERATING STATUS LIGHTS FOR DRYWELL SUMP PUMPS WILL BE LOCATED ON MAIN CONTROL PANEL. ALL OTHER PUMP CENTRALIZED MAIN & CONTROL WILL HAVE OPERATING STATUS LIGHTS ON THE RADWASTE PANEL.
  - SUMP PUMPS WILL START AUTOMATICALLY ON HIGH LEVEL AND STOP AUTOMATICALLY ON LOW LEVEL. OPERATING TIME WILL BE TOTALIZED ON EACH SUMP PUMP.
  - COLLECT DRAIN PIPING TO SUMPS AND REVISE TO CONFORM TO PIPING CODES. THE ONLY DRAINS REQUIRING DIRECT ROUTING ARE THOSE INDICATED OTHERWISE FROM OTHER DRAWINGS.
  - DISCHARGE PIPING TO SUMPS SHALL TERMINATE BELOW LOW WATER LEVEL TO PROVIDE A WATER SEAL. OFF GAS LINE CONDENSATE SHALL BE SEALED AS ABOVE OR WITH LIP SEAL SUFFICIENT TO PREVENT OFF GASES FROM ENTERING SUMP.
  - ALL PIPING AND VALVES PRESSURE/TEMPERATURE REDIPLICATES ARE APPROXIMATE 150 PSIG/150°F.
  - ALL EQUIPMENT & INSTRUMENT NUMBERS NOT PREFIXED ON DRAWING ARE PREFIXED WITH 30 WHICH IS SYSTEM 30 OR G.E. SYSTEM 20.
  - ALL PIPING CLASS 151 & 152 WILL BE RADIOGRAPHED IN SYS. 30 PER 492.31.
  - PIPE CLASS 153 WILL USE BONDSTRAND SERIES 2000 PIPE.
  - ALL SYSTEM 20 PUMPS WHICH REQUIRE SEAL WATER WILL HAVE SELENIUM VALVES ON SEAL WATER LINES WHICH OPEN DURING PUMP OPERATION. THE SEAL WATER WILL BE CONDENSATE.
  - ACQUIRMENT FURNISHED BY VENDOR.
  - F.O. DENOTES FLUSH OUT. ALL F.O.'S ARE 1" CONNECTIONS & HAVE 1/2" VOS-600 UNLESS OTHERWISE NOTED.
  - ALL OUTDOOR PIPING IN THE AREA OF THE WASTE SURGE TANK TR-18, WILL BE HEAT TRACED.

- REFERENCES:**
- FLOW DIAGRAM SYMBOLS FM-14A.
- CRESCENT AREA**
- |                    |                    |
|--------------------|--------------------|
| RCIC-WEST CRESCENT | HPCI-EAST CRESCENT |
| LE-201             | LE-202             |
- EPIC 09 DAS-22      EPIC 09 FAS-22
- THE ORIGINAL TRACING FOR THIS DRAWING WAS PREPARED BY STONE & WEBSTER CORP.
- A RECORD OF THE ORIGINAL DRAWING WITH ANY AND ALL REVISIONS SHALL BE MAINTAINED IN THE OFFICE OF THE PROJECT ENGINEER & WILL BE AVAILABLE TO ALL PERSONNEL INVOLVED IN THE PROJECT. THIS DOCUMENT HAS ELECTRONICALLY STORED AT REV 17.

SI  
APERTURE  
CARD

DA. CAT. I, II, III

NUCLEAR SAFETY RELATED	
JAMES A. FITZPATRICK NUCLFAR POWER PLANT	
FLOW DIAGRAM RADWASTE-SYS. NO. 20-SH-1	
DATE: 5/11/92	REV: 17

New York Power Authority  
11825-FM-17A

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PDR RIDS

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