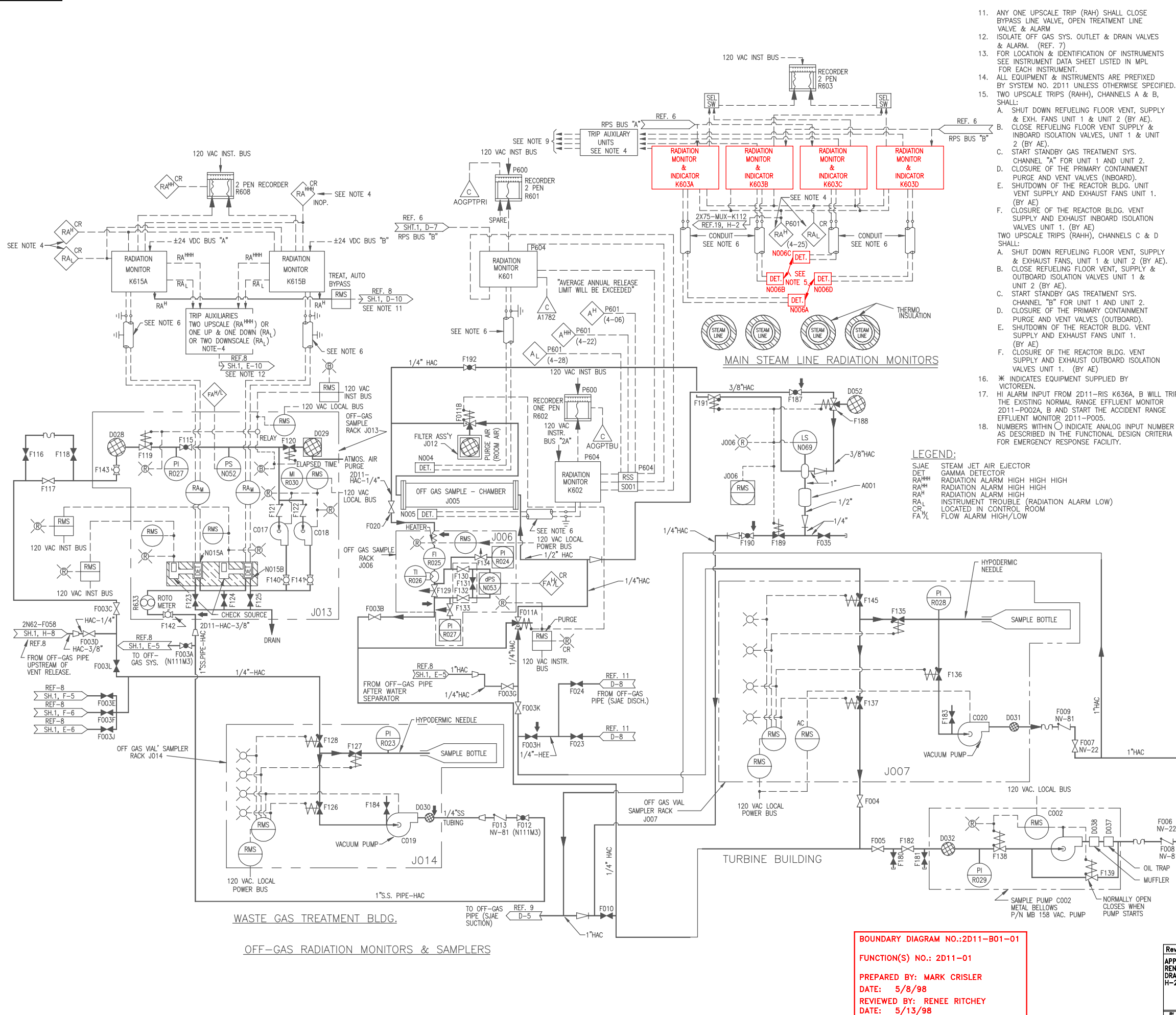


A  
B  
C  
D  
E  
F  
G  
H  
J



11. ANY ONE UPSCALE TRIP (RAH) SHALL CLOSE BYPASS LINE VALVE, OPEN TREATMENT LINE VALVE & ALARM
12. ISOLATE OFF GAS SYS. OUTLET & DRAIN VALVES & ALARM. (REF. 7)
13. FOR LOCATION & IDENTIFICATION OF INSTRUMENTS SEE INSTRUMENT DATA SHEET LISTED IN MPL FOR EACH INSTRUMENT.
14. ALL EQUIPMENT & INSTRUMENTS ARE PREFIXED BY SYSTEM NO. 2D11 UNLESS OTHERWISE SPECIFIED.
15. TWO UPSCALE TRIPS (RAHH), CHANNELS A & B, SHALL:
- A. SHUT DOWN REFUELING FLOOR VENT, SUPPLY & EXH. FANS UNIT 1 & UNIT 2 (BY AE).
  - B. CLOSE REFUELING FLOOR VENT SUPPLY & INBOARD ISOLATION VALVES, UNIT 1 & UNIT 2 (BY AE).
  - C. START STANDBY GAS TREATMENT SYS. CHANNEL "A" FOR UNIT 1 AND UNIT 2.
  - D. CLOSURE OF THE PRIMARY CONTAINMENT PURGE AND VENT VALVES (INBOARD).
  - E. SHUTDOWN OF THE REACTOR BLDG. UNIT VENT SUPPLY AND EXHAUST FANS UNIT 1. (BY AE)
  - F. CLOSURE OF THE REACTOR BLDG. VENT SUPPLY AND EXHAUST INBOARD ISOLATION VALVES UNIT 1. (BY AE)
- TWO UPSCALE TRIPS (RAHH), CHANNELS C & D SHALL:
- A. SHUT DOWN REFUELING FLOOR VENT, SUPPLY & EXHAUST FANS, UNIT 1 & UNIT 2 (BY AE).
  - B. CLOSE REFUELING FLOOR VENT, SUPPLY & OUTBOARD ISOLATION VALVES UNIT 1 & UNIT 2 (BY AE).
  - C. START STANDBY GAS TREATMENT SYS. CHANNEL "B" FOR UNIT 1 AND UNIT 2.
  - D. CLOSURE OF THE PRIMARY CONTAINMENT PURGE AND VENT VALVES (OUTBOARD).
  - E. SHUTDOWN OF THE REACTOR BLDG. VENT SUPPLY AND EXHAUST FANS UNIT 1. (BY AE)
  - F. CLOSURE OF THE REACTOR BLDG. VENT SUPPLY AND EXHAUST OUTBOARD ISOLATION VALVES UNIT 1. (BY AE)
16. \* INDICATES EQUIPMENT SUPPLIED BY VICTOREEN.
17. HI ALARM INPUT FROM 2D11-RIS K636A, B WILL TRIP THE EXISTING NORMAL RANGE EFFLUENT MONITOR 2D11-PO02A, B AND START THE ACCIDENT RANGE EFFLUENT MONITOR 2D11-PO05.
18. NUMBERS WITHIN O INDICATE ANALOG INPUT NUMBER AS DESCRIBED IN THE FUNCTIONAL DESIGN CRITERIA FOR EMERGENCY RESPONSE FACILITY.

- NOTES:**
- THE OFF GAS VENT PIPE GAS SAMPLE LINE SHALL BE 1" X 0.058" WALL THICKNESS SEAMLESS STAINLESS STEEL TUBING. THE TUBING MIN. BEND RADIUS SHALL BE 20" THE TUBING LENGTH SHALL BE JOINED WITH SWAGelok TYPE 1610-6-316 UNIONS. THE TUBING SHALL SLOPE SO THAT THE CONDENSATE WILL RUN TO DRAIN TEE.
  - REMOVABLE SECTION SHALL BE PROVIDED NEAR THE ISOKINETIC PROBE FOR THE INSERTION OF A CHARCOAL FILTER HOLDER. THE FITTINGS ETC. SHALL PROVIDE SMOOTH TRANSITIONS WITHOUT DISCONTINUITIES OR REDUCING THE CROSS-SECTIONAL AREA OF THE FLOW STREAM.
  - TEE SHALL BE UNION TEE SWAGelok TYPE 1610-3-316.
  - ALARMS ARE ACTUATED BY RELAYS IN TRIP AUX. UNIT. TRIP AUX. UNITS TO BE SUPPLIED AS REQUIRED. DOWNSCALE ALARMS FOR LIQUID RADIATION MONITORS ARE ANNUNCIATED ON A SINGLE COMMON ANNUNCIATOR.
  - THE DETECTORS NO06A-D SHALL BE LOCATED WITHIN THE STEAM LINE TUNNEL AS CLOSE AS PRACTICAL TO THE PRIMARY CONTAINMENT. THE DETECTORS SHALL BE ARRANGED SUCH THAT EACH DETECTOR WILL VIEW ALL STEAM LINES WITH APPROXIMATELY THE SAME RESPONSE. IT IS RECOMMENDED THAT THE DETECTOR OR DETECTOR ASSEMBLY BE FASTENED TO A ROD OR A PIPE AND INSERTED INTO SEALED INTO PIPE WALLS FROM OUTSIDE THE STEAM TUNNEL. CAREFULLY ROUTE CABLES TO MINIMIZE HEAT EXPOSURE. NO LEAD SHIELDING IS REQUIRED. SAFEGUARD SEPARATION IS REQUIRED.
  - ALL CABLES SHALL COMPLY WITH GE ENGR. SPEC. REF. 2.
  - ADDITIONAL ALARM IN RADWASTE BLDG (RAH) RADWASTE MONITOR ONLY.
  - DRAIN AT THE LOWER POINT OF OFF GAS SAMPLE LINE.
  - ONE HIGH-HIGH RADIATION TRIP (RAHH) OR INOPERATIVE TRIP OUT OF TWO IN TRIP SYSTEM "A" AND ONE HIGH-HIGH RADIATION TRIP (RAHH) OR INOPERATIVE TRIP OUT OF TWO IN TRIP SYSTEM "B" SHALL:
- TURN OFF MECHANICAL VACUUM PUMP & CLOSE MECHANICAL LINE VALVE. (REF.3) ANY ONE HIGH-HIGH RADIATION SHALL ALARM (RAHH).
- TWO UPSCALE TRIPS (RAHH), CHANNELS A & B SHALL:
  - A. SHUT DOWN REACTOR BLDG. VENT SUPPLY & EXHAUST FANS FOR UNIT 2.
  - B. CLOSE REACTOR BLDG. VENT SUPPLY & EXHAUST INBOARD ISOLATION VALVES FOR UNIT 2.
  - C. START STANDBY GAS TREATMENT SYSTEM CHANNEL "B" FOR UNIT 2.
  - D. CLOSE PRIMARY CONTAINMENT PURGE & VENT VALVE (INBOARD) FOR UNIT 2.
- TWO UPSCALE TRIPS (RAHH), CHANNELS C & D SHALL:
- SHUT DOWN REACTOR BLDG. VENT SUPPLY & EXHAUST FANS FOR UNIT 2
  - CLOSE REACTOR BLDG. VENT SUPPLY & EXHAUST OUTBOARD ISOLATION VALVES FOR UNIT 2.
  - START STANDBY GAS TREATMENT SYSTEM CHANNEL "B" FOR UNIT 2.
  - CLOSE PRIMARY CONTAINMENT PURGE & VENT VALVE (OUTBOARD) FOR UNIT 2.

**LEGEND:**

SJAE STEAM JET AIR EJECTOR  
 DET GAMMA DETECTOR  
 RAHHH RADIATION ALARM HIGH HIGH HIGH  
 RAH RADIATION ALARM HIGH HIGH  
 RAH RADIATION ALARM HIGH  
 RAL INSTRUMENT TROUBLE (RADIATION ALARM LOW) LOCATED IN CONTROL ROOM  
 FA/L FLOW ALARM HIGH/LOW

**REFERENCES**

MPL NO.	SSI NO.
2D11-4010	S-25281
2A61-4010	S-25042
2A61-4020	S-25042
2A61-4050	S-25373
A61	S-15051
2C71-1010	S-25105
2N62-1030	S-25333
2N62-1010	H-26045
2N22-1010	H-21030
2D11-1020	H-27620
2N22-1010	H-27634
2N22-1010	H-21056
H-21011	S-41454
2G11-1010	H-26026
X75-P601	SX-19340
2X75-1010	H-26284
2X75-P601	S-41967
2X75-P601	S-41968
2X75-1010	H-26158
2D11	H-26028
2G11-1010	H-26028

**BOUNDARY DIAGRAM NO.:2D11-B01-01**

**FUNCTION(S) NO.: 2D11-01**

PREPARED BY: MARK CRISLER  
 DATE: 5/8/98  
 REVIEWED BY: RENEE RITCHEY  
 DATE: 5/13/98

LICENSE RENEWAL DOCUMENT

MPL NO. 2D11-1010 ACAD14 HL26011



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EDWIN I. HATCH NUCLEAR PLANT No.2  
PROCESS RADIATION MONITORING SYSTEM P&I.D. SHEET 1

Revision: A Date: 11-16-99  
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10-502	None		HL-26011	A