

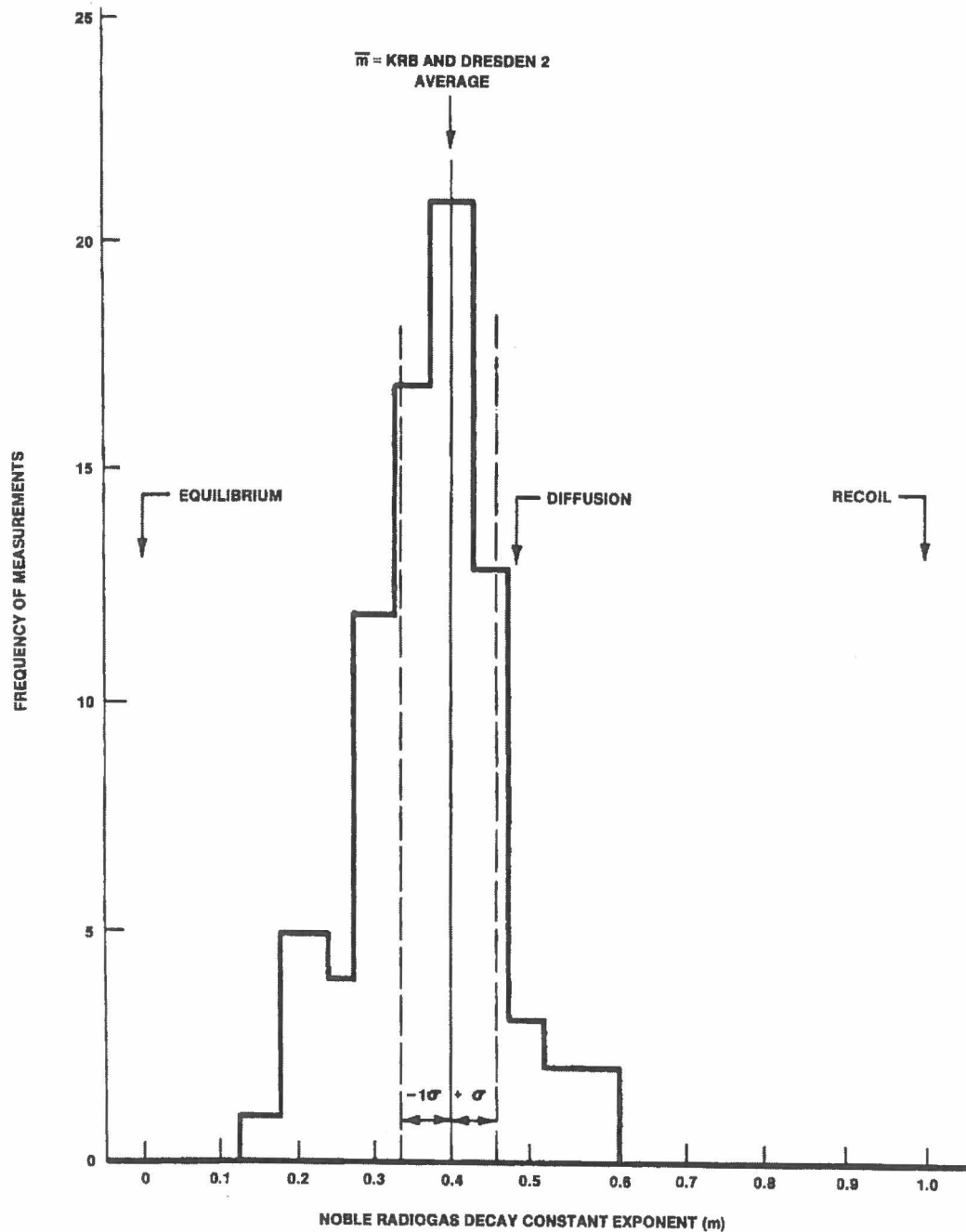


FIGURE 11.1-1

NOBLE RADIOGAS DECAY
CONSTANT EXPONENT
FREQUENCY HISTOGRAM

NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT-UNIT 2
FINAL SAFETY ANALYSIS REPORT

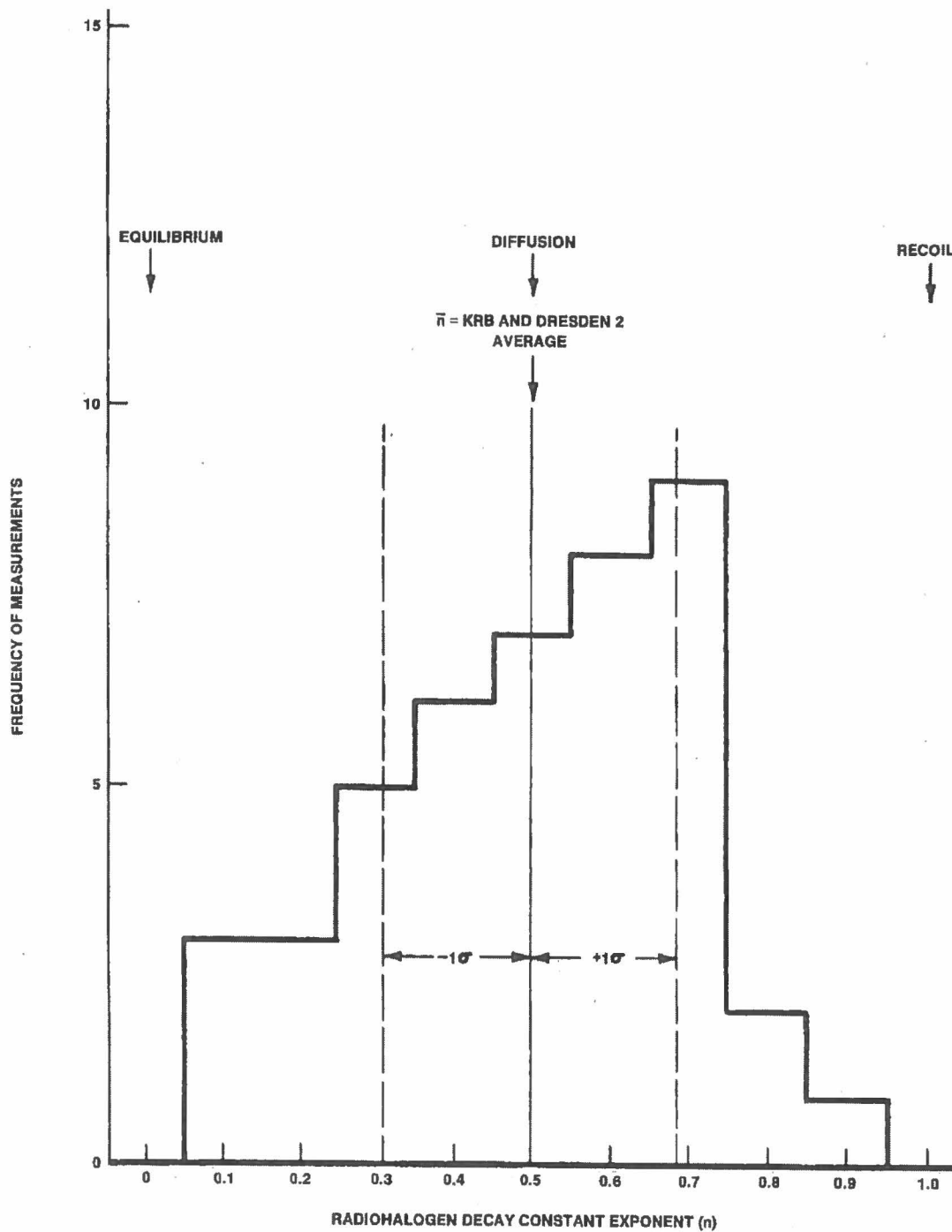


FIGURE 11.1-2

RADIOHALOGEN DECAY
CONSTANT EXPONENT
FREQUENCY HISTOGRAM

NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT-UNIT 2
FINAL SAFETY ANALYSIS REPORT

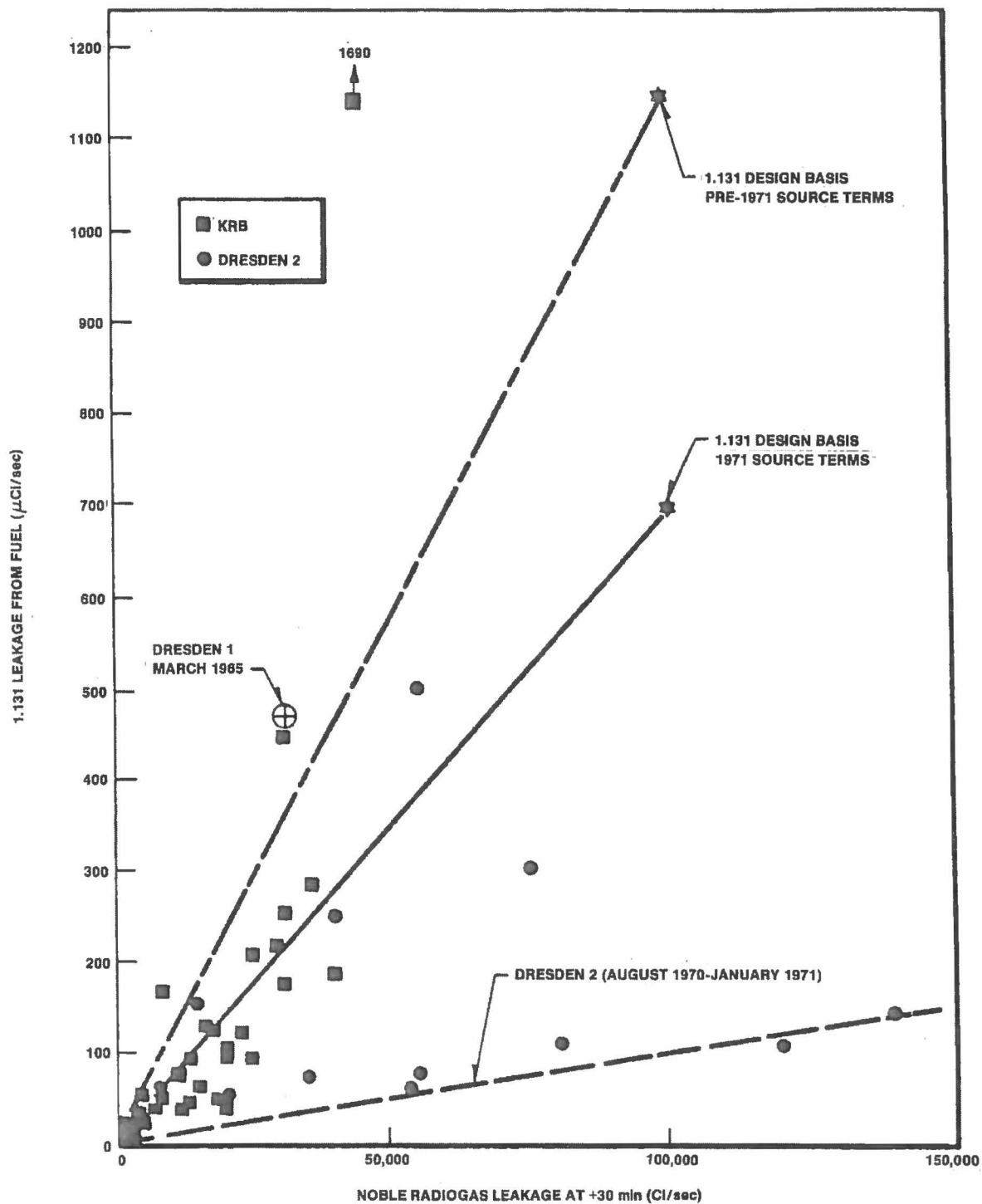
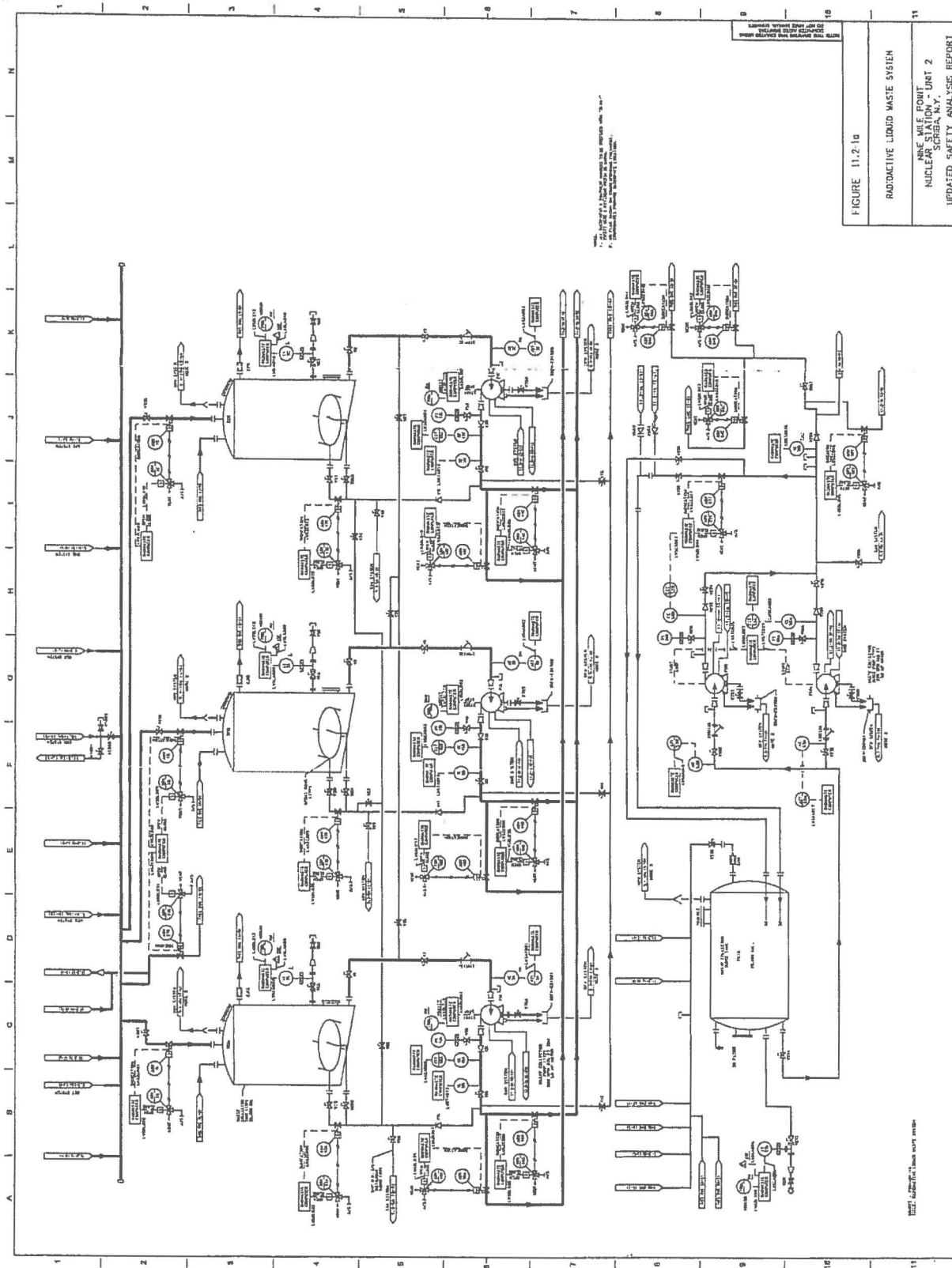


FIGURE 11.1-3

NOBLE RADIOGAS LEAKAGE
VERSUS 1-131 LEAKAGE

NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT-UNIT 2
FINAL SAFETY ANALYSIS REPORT



1. This diagram is a schematic diagram of the Radiative Liquid Waste System. It is not a detailed engineering drawing and should not be used for construction or operation without the appropriate engineering drawings.

11.2-1a

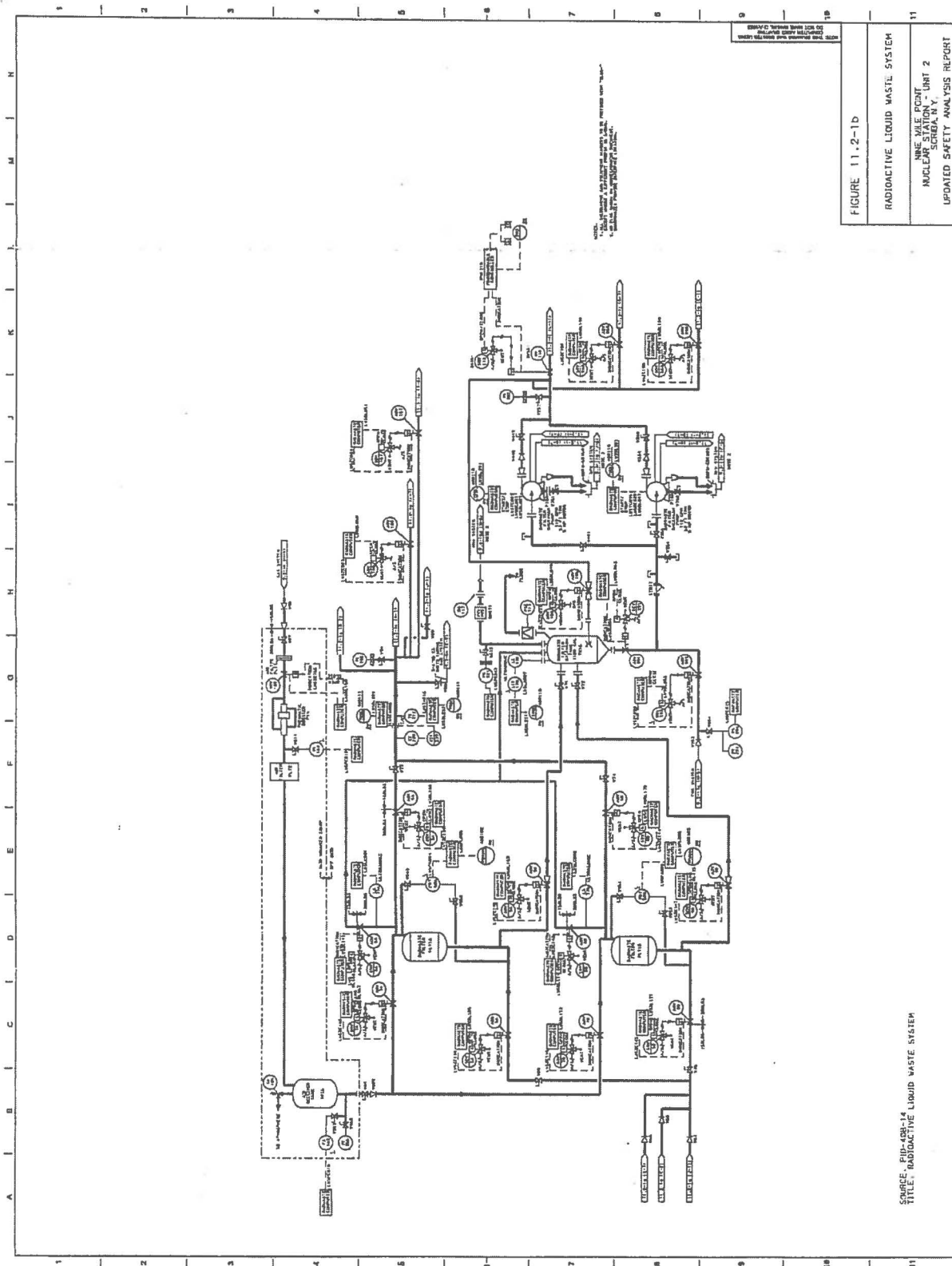
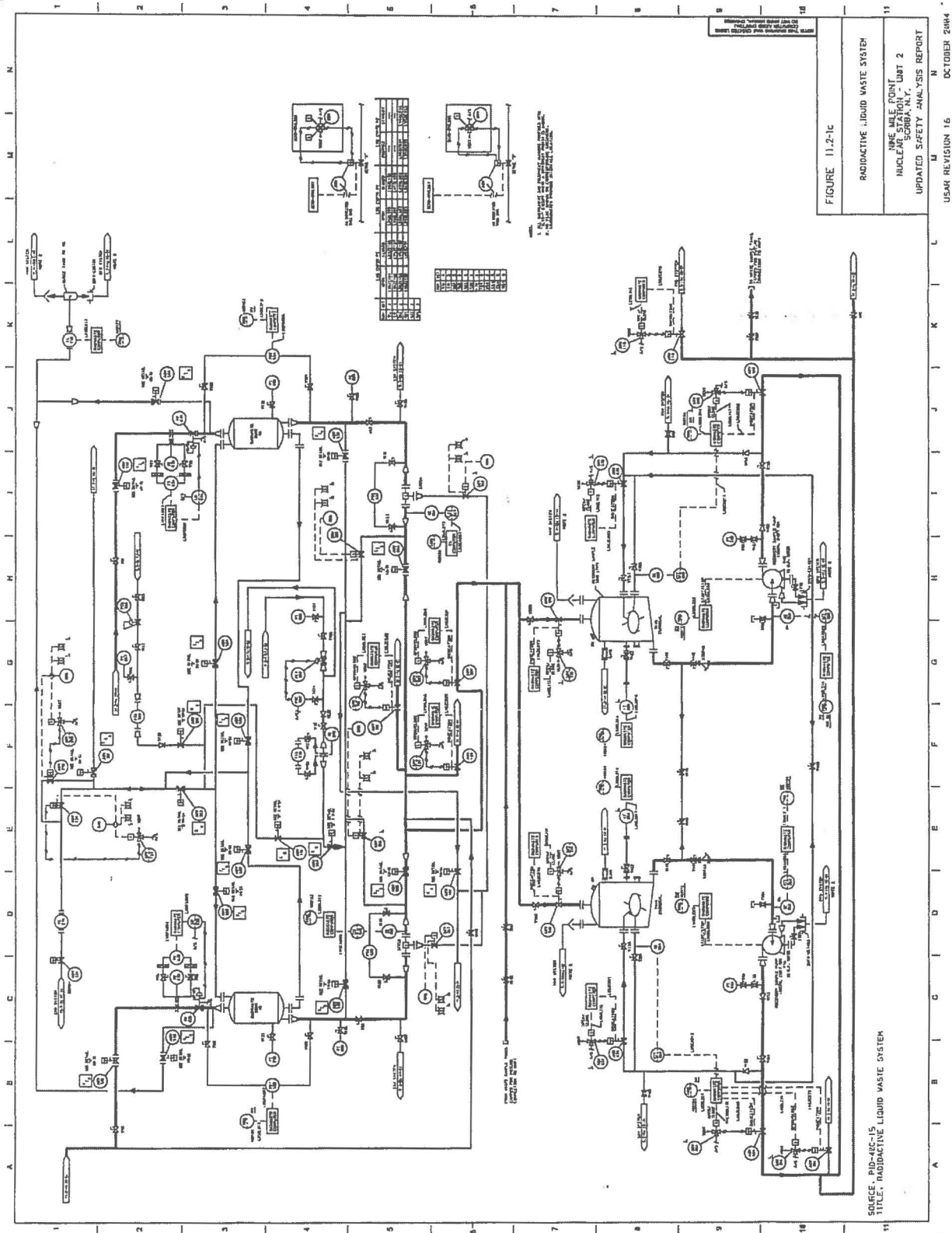
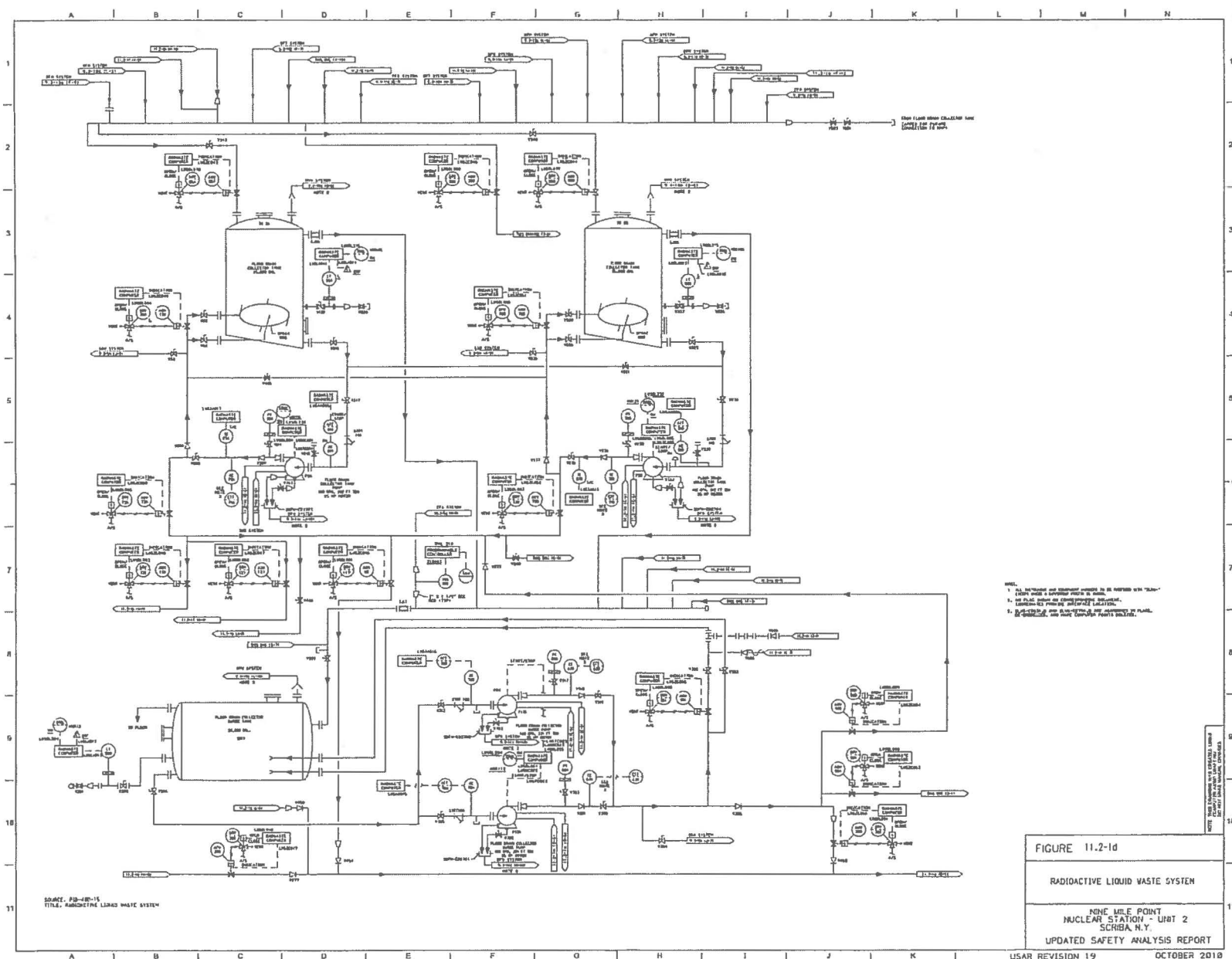
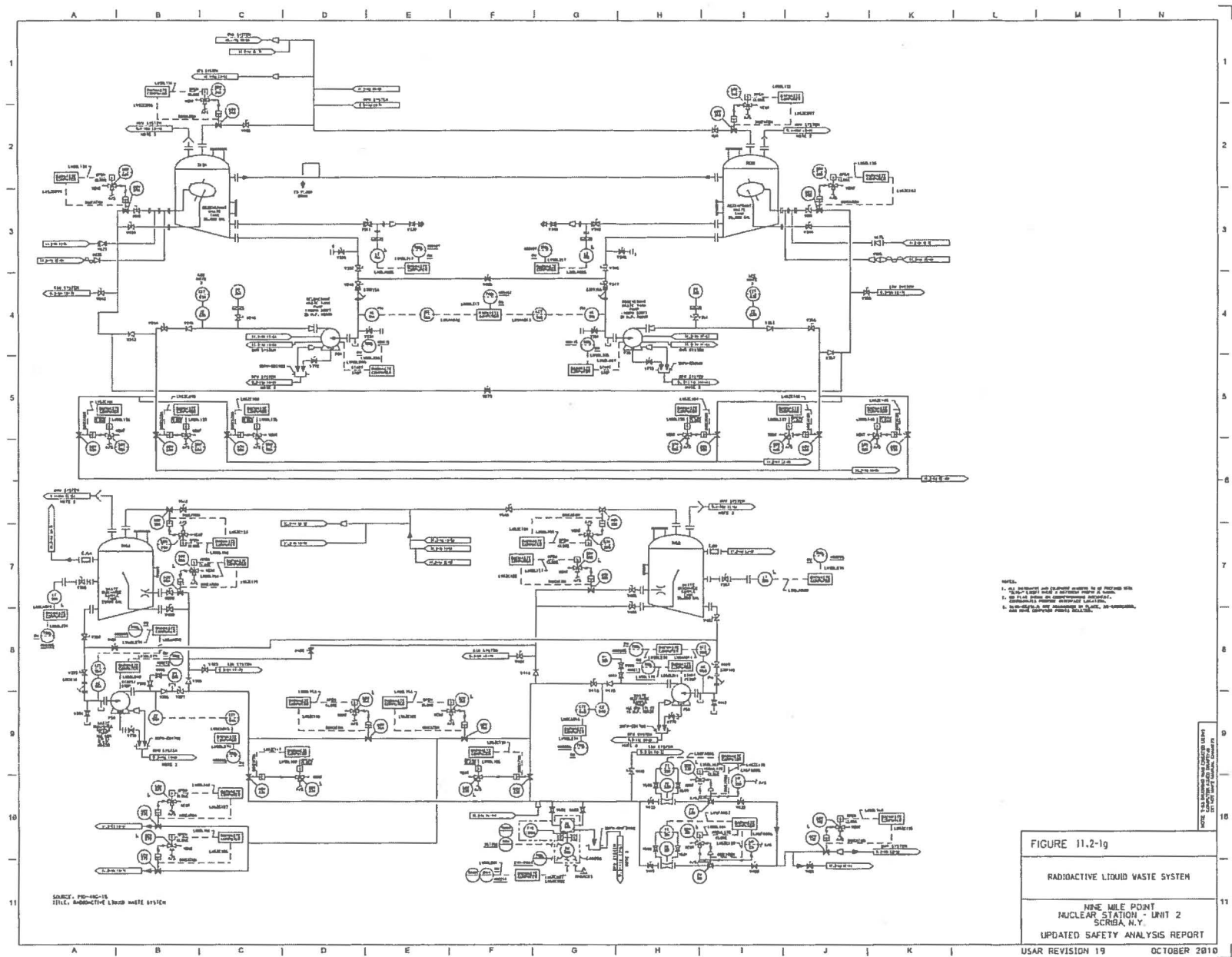


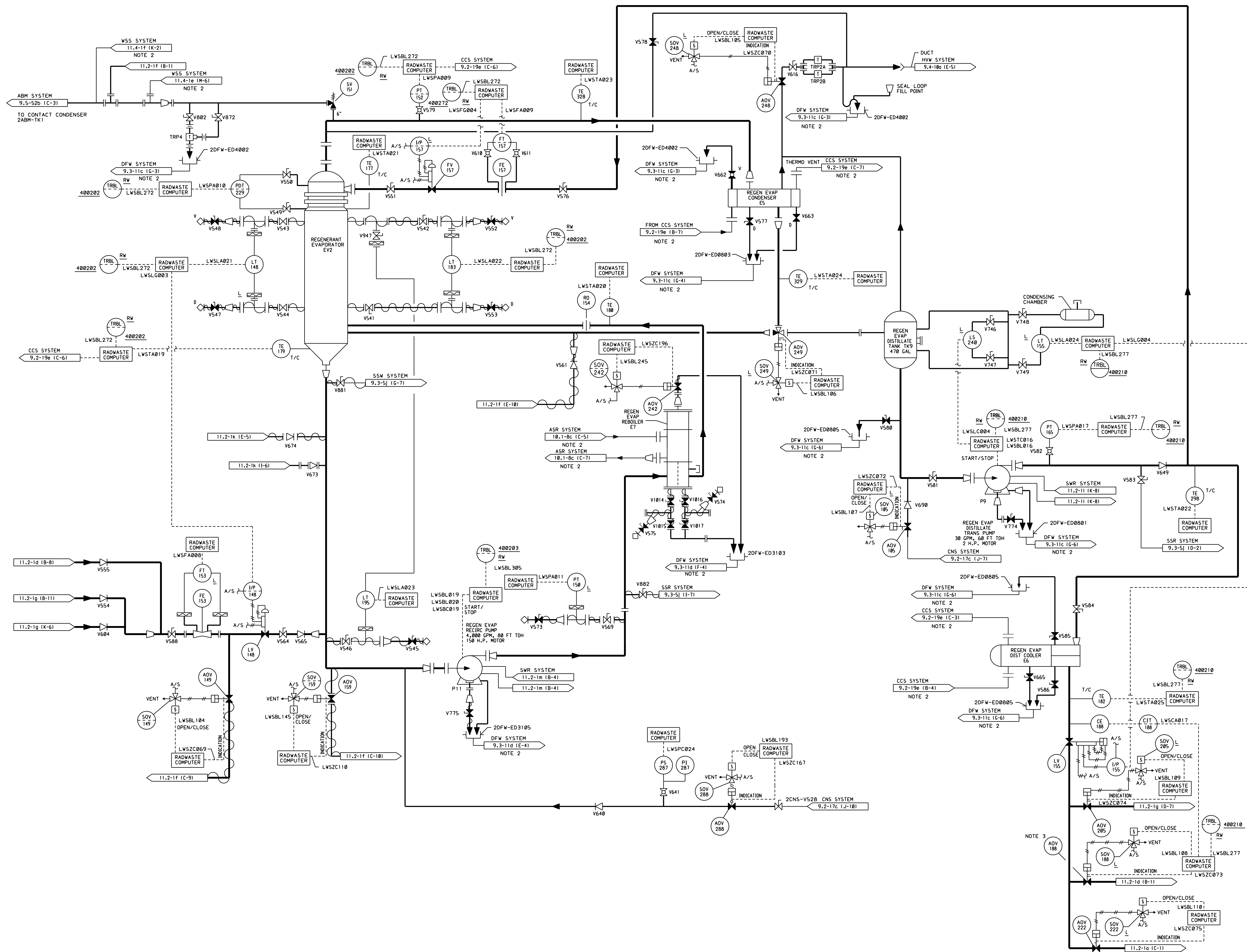
FIGURE 11.2-1b

RADIOACTIVE LIQUID WASTE SYSTEM
 NINE MILE POINT
 NUCLEAR STATION - UNIT 2
 UPDATED SAFETY ANALYSIS REPORT









NOTES:
 1. ALL INSTRUMENT AND EQUIPMENT NUMBERS TO BE PREFIXED WITH "2LWS-"
 EXCEPT WHERE A DIFFERENT PREFIX IS SHOWN.
 2. NO FLAG SHOWN ON CORRESPONDING DOCUMENT.
 COORDINATES PROVIDE INTERFACE LOCATION.
 3. VALVE IS MECHANICALLY HELD CLOSED.

FIGURE 11.2-1h

RADIOACTIVE LIQUID WASTE SYSTEM

NINE MILE POINT
 NUCLEAR STATION - UNIT 2
 SCRIBA, N.Y.

UPDATED SAFETY ANALYSIS REPORT

SOURCE: 12177-PID-40H-13
 TITLE: RADIOACTIVE LIQUID WASTE SYSTEM

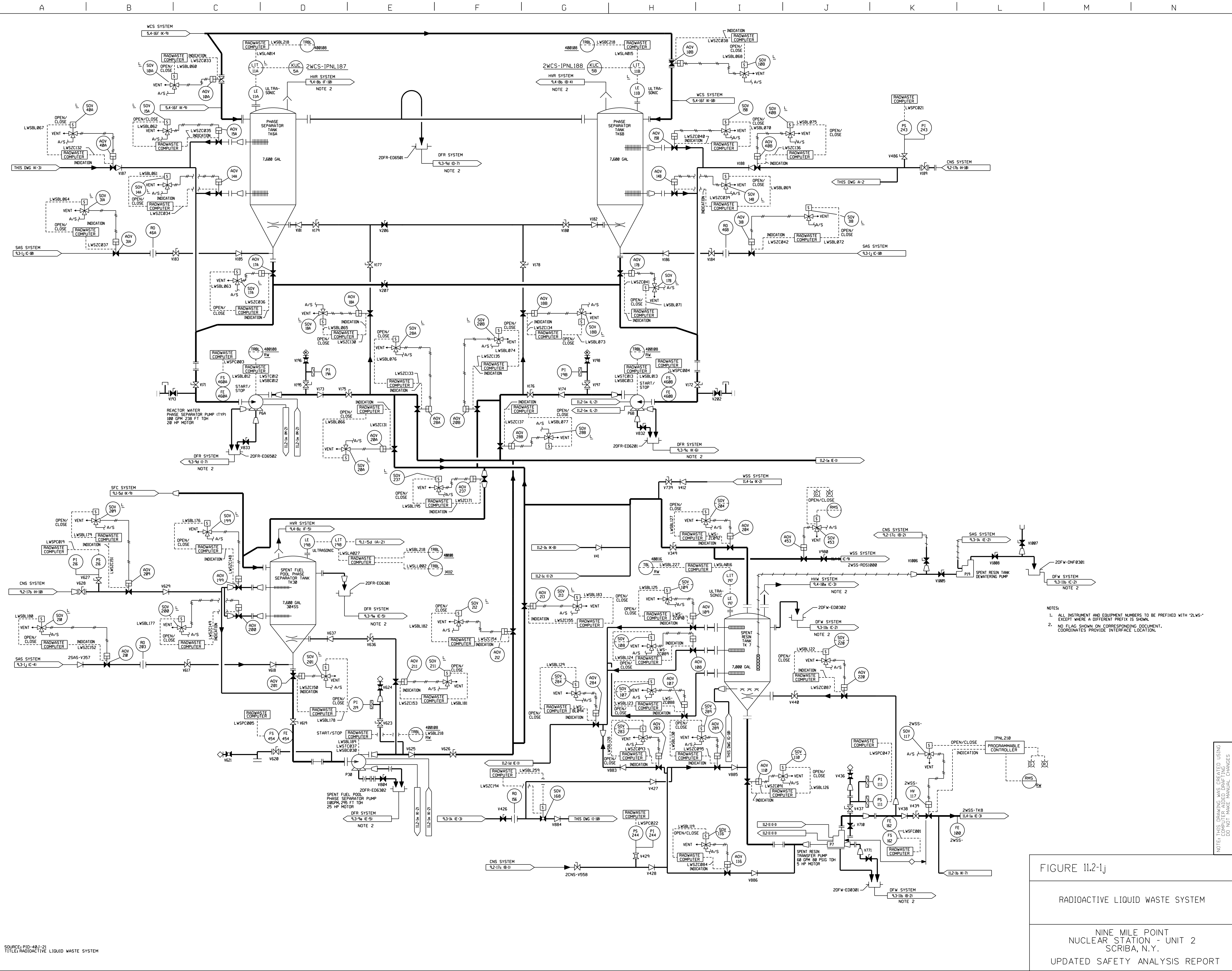


FIGURE 11.2-1j

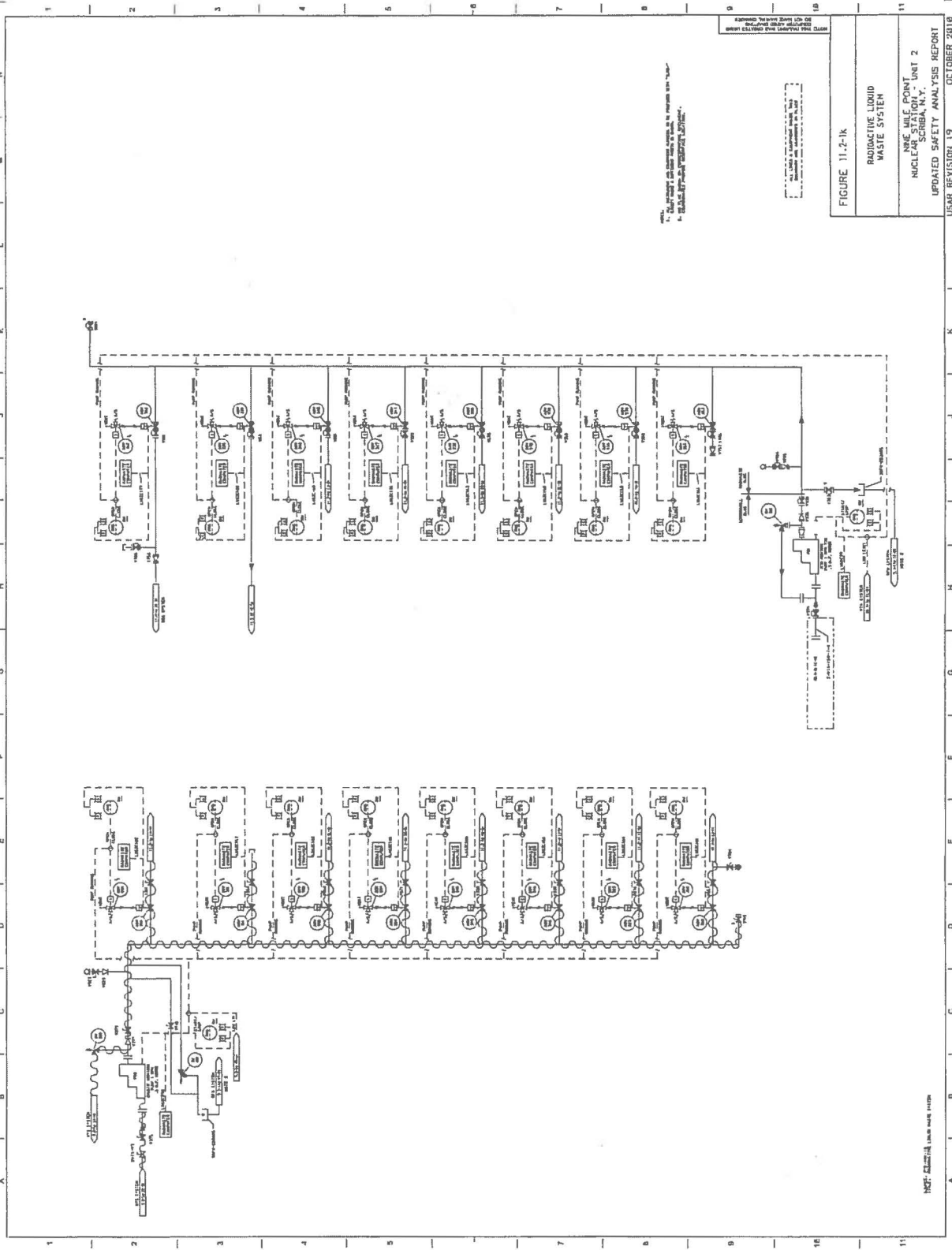
RADIOACTIVE LIQUID WASTE SYSTEM

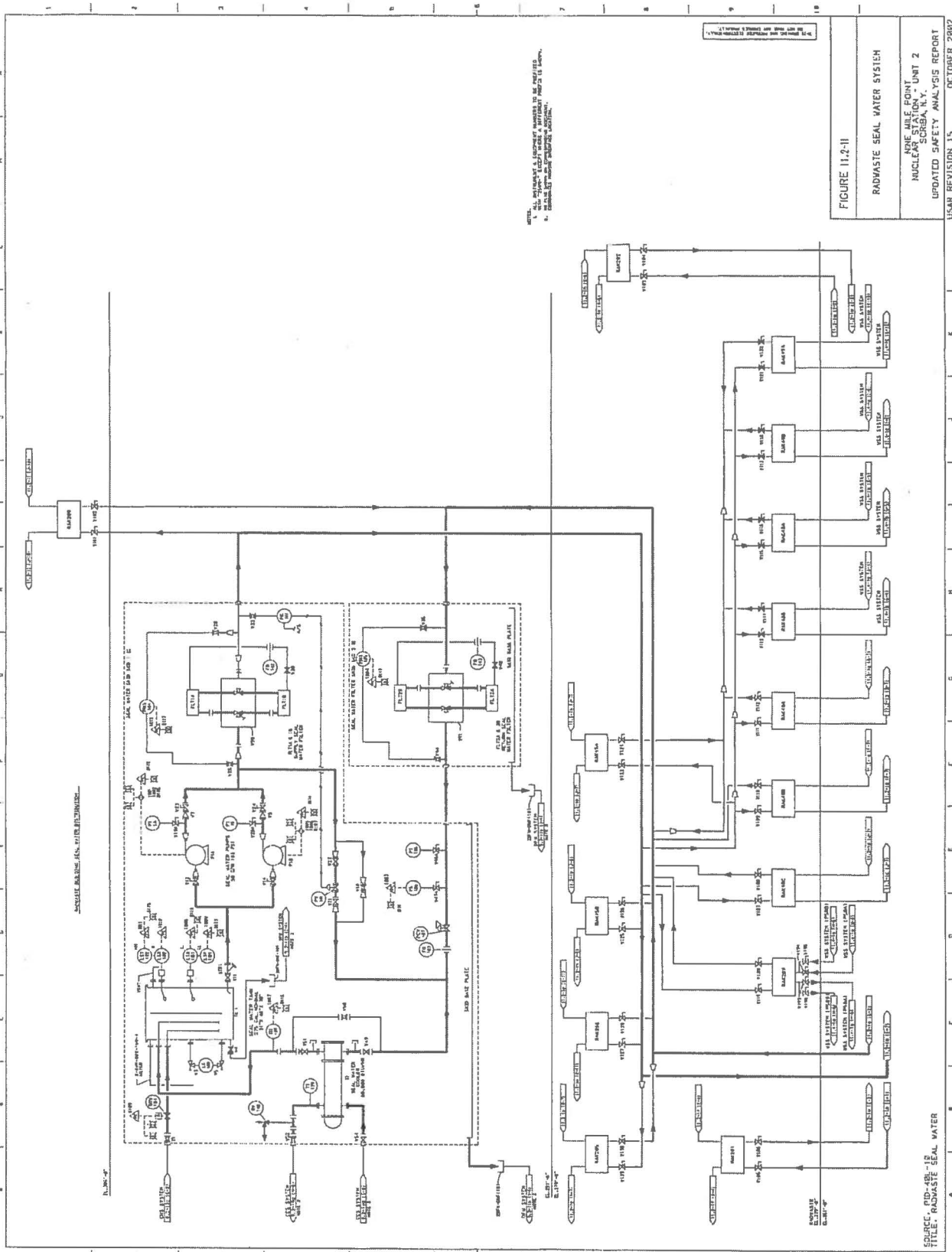
NINE MILE POINT
NUCLEAR STATION - UNIT 2
SCRIBA, N.Y.

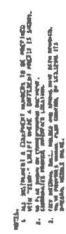
UPDATED SAFETY ANALYSIS REPORT

SOURCE: PID-483-21
TITLE: RADIOACTIVE LIQUID WASTE SYSTEM

NOTE: THIS DRAWING WAS CREATED USING
COMPUTER AIDED DRAFTING
DO NOT MAKE MANUAL CHANGES







Case No.	Date	Name	Age	Sex	Religion	Marital Status	Occupation	Education	Income	Assets	Liabilities	Net Worth	Comments	Financial Data		Social Data		Health Data		Family Data		Community Data		Other Data	
														Assets	Liabilities	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities
1	1950	John Doe	35	M	Protestant	Married	Teacher	High School	\$10,000	\$5,000	\$5,000	\$0	Good	1	2	3	4	5	6	7	8	9	10	11	12
2	1951	Jane Smith	28	F	Catholic	Single	Nurse	College	\$15,000	\$8,000	\$7,000	\$0	Good	2	3	4	5	6	7	8	9	10	11	12	13
3	1952	Robert Brown	42	M	Jewish	Married	Engineer	University	\$20,000	\$10,000	\$10,000	\$0	Good	3	4	5	6	7	8	9	10	11	12	13	14
4	1953	Mary White	30	F	Methodist	Single	Teacher	High School	\$12,000	\$6,000	\$6,000	\$0	Good	4	5	6	7	8	9	10	11	12	13	14	15
5	1954	William Black	38	M	Baptist	Married	Farmer	High School	\$18,000	\$9,000	\$9,000	\$0	Good	5	6	7	8	9	10	11	12	13	14	15	16
6	1955	Elizabeth Green	25	F	Anglican	Single	Librarian	College	\$14,000	\$7,000	\$7,000	\$0	Good	6	7	8	9	10	11	12	13	14	15	16	17
7	1956	Charles Hall	40	M	Presbyterian	Married	Doctor	University	\$25,000	\$12,000	\$13,000	\$0	Good	7	8	9	10	11	12	13	14	15	16	17	18
8	1957	Sarah King	22	F	Quaker	Single	Student	College	\$11,000	\$5,000	\$6,000	\$0	Good	8	9	10	11	12	13	14	15	16	17	18	19
9	1958	David Lee	33	M	Episcopal	Married	Engineer	University	\$19,000	\$9,500	\$9,500	\$0	Good	9	10	11	12	13	14	15	16	17	18	19	20
10	1959	Helen Miller	27	F	Unitarian	Single	Teacher	High School	\$13,000	\$6,500	\$6,500	\$0	Good	10	11	12	13	14	15	16	17	18	19	20	21

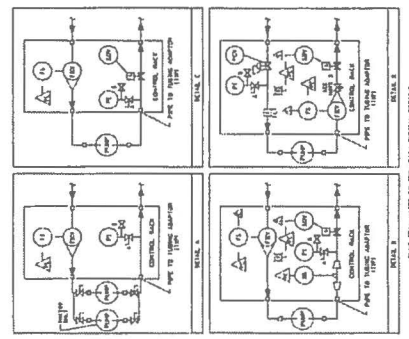
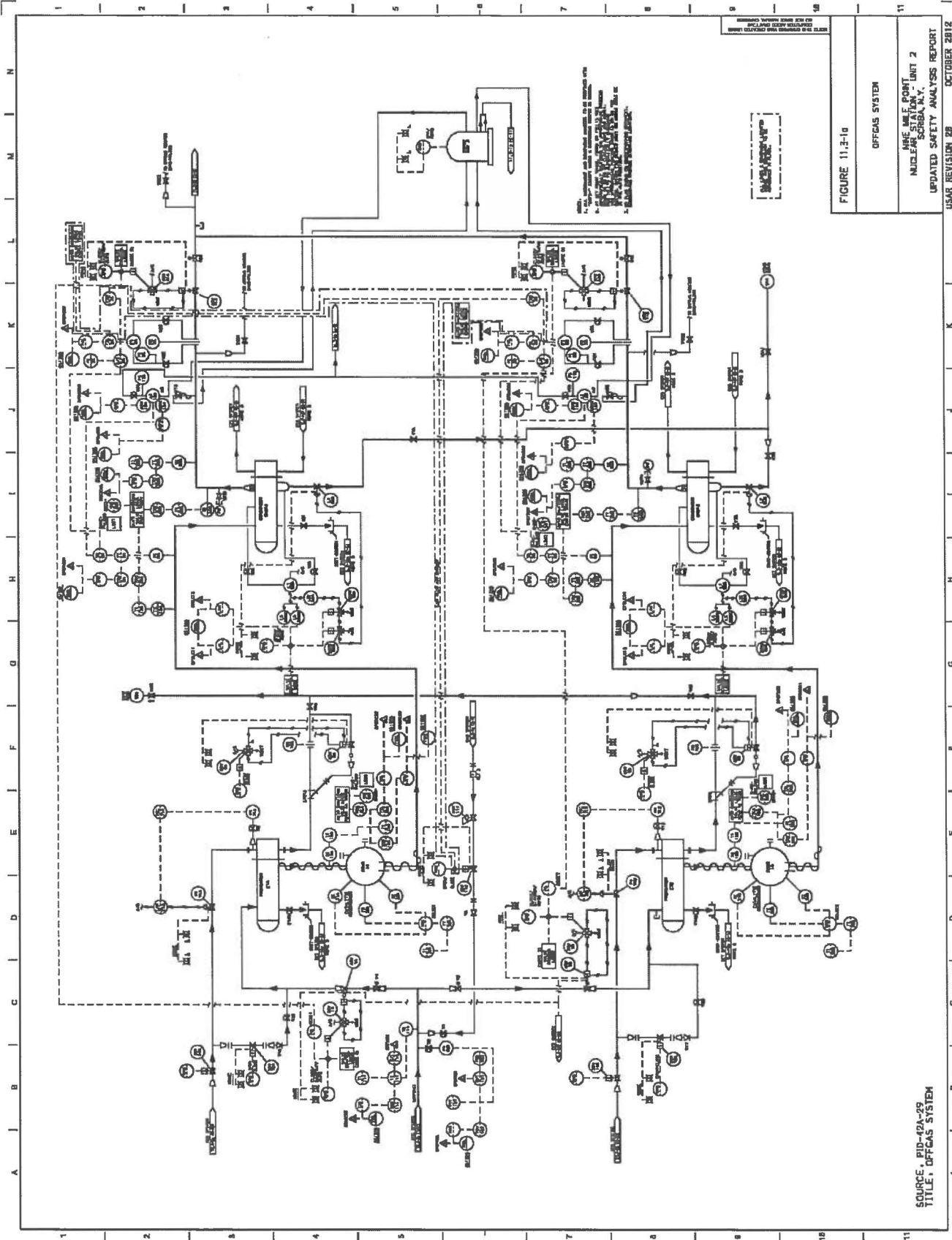
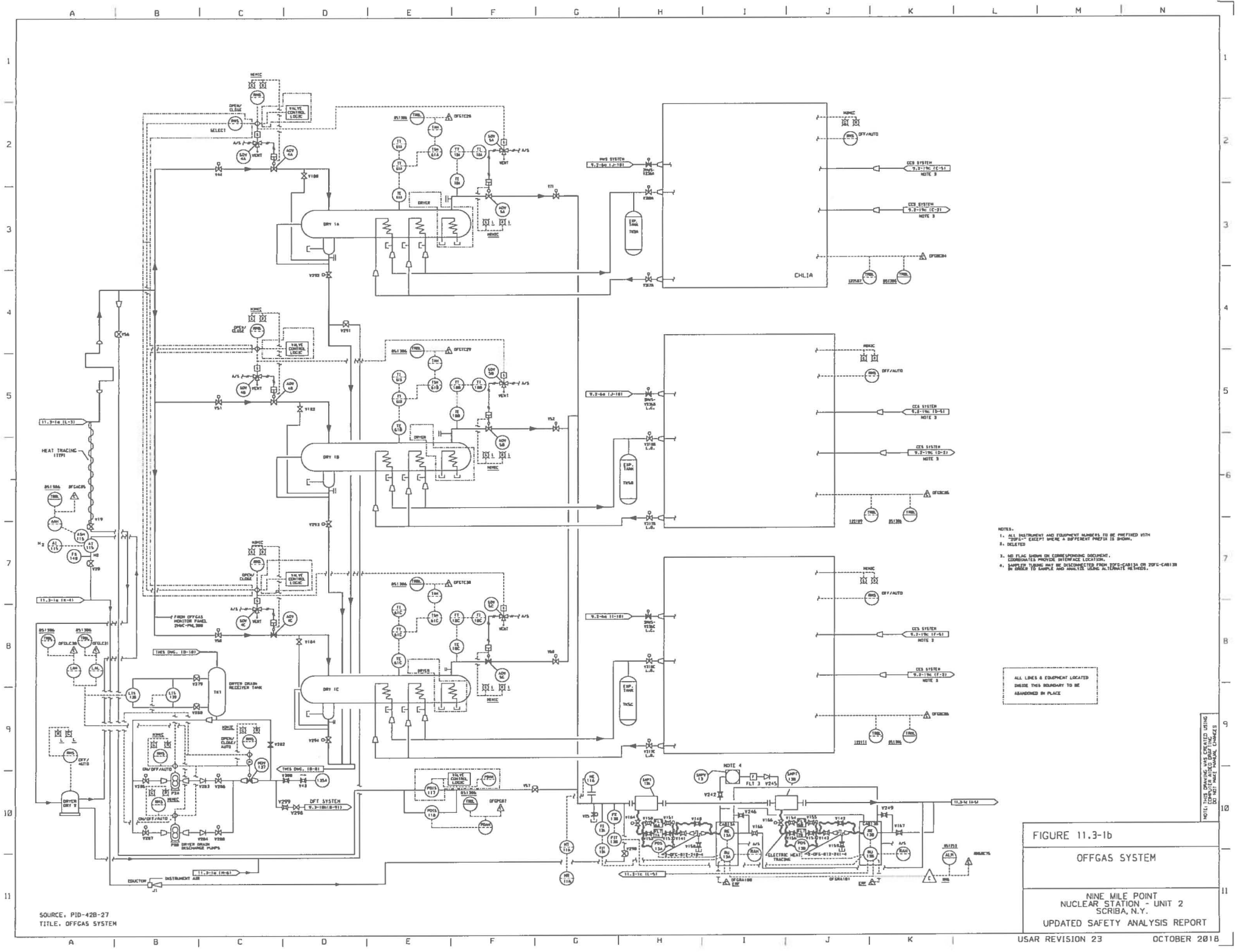


FIGURE 11.2-1m
RADWASTE SEAL WATER SYSTEM
NINE MILE POINT NUCLEAR STATION, UNIT 2 SCRIBA, N.Y.
UPDATED SAFETY ANALYSIS REPORT USAR REVISION 19 OCTOBER 2010





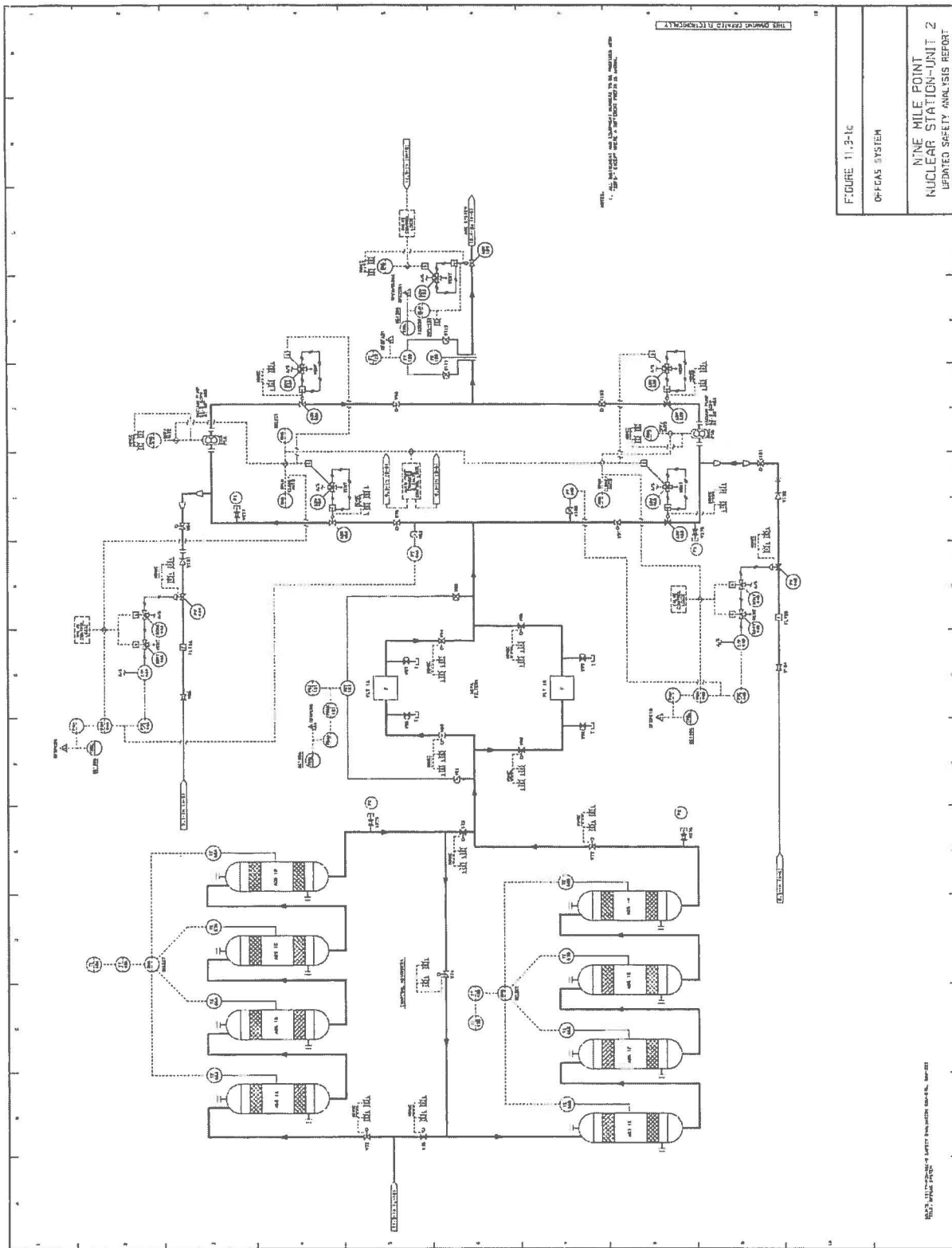


FIGURE 11.3-1c

OFFCAS SYSTEM

NINE MILE POINT
NUCLEAR STATION-UNIT 2
UPDATED SAFETY ANALYSIS REPORT
USAR REVISION 0

APRIL 1979

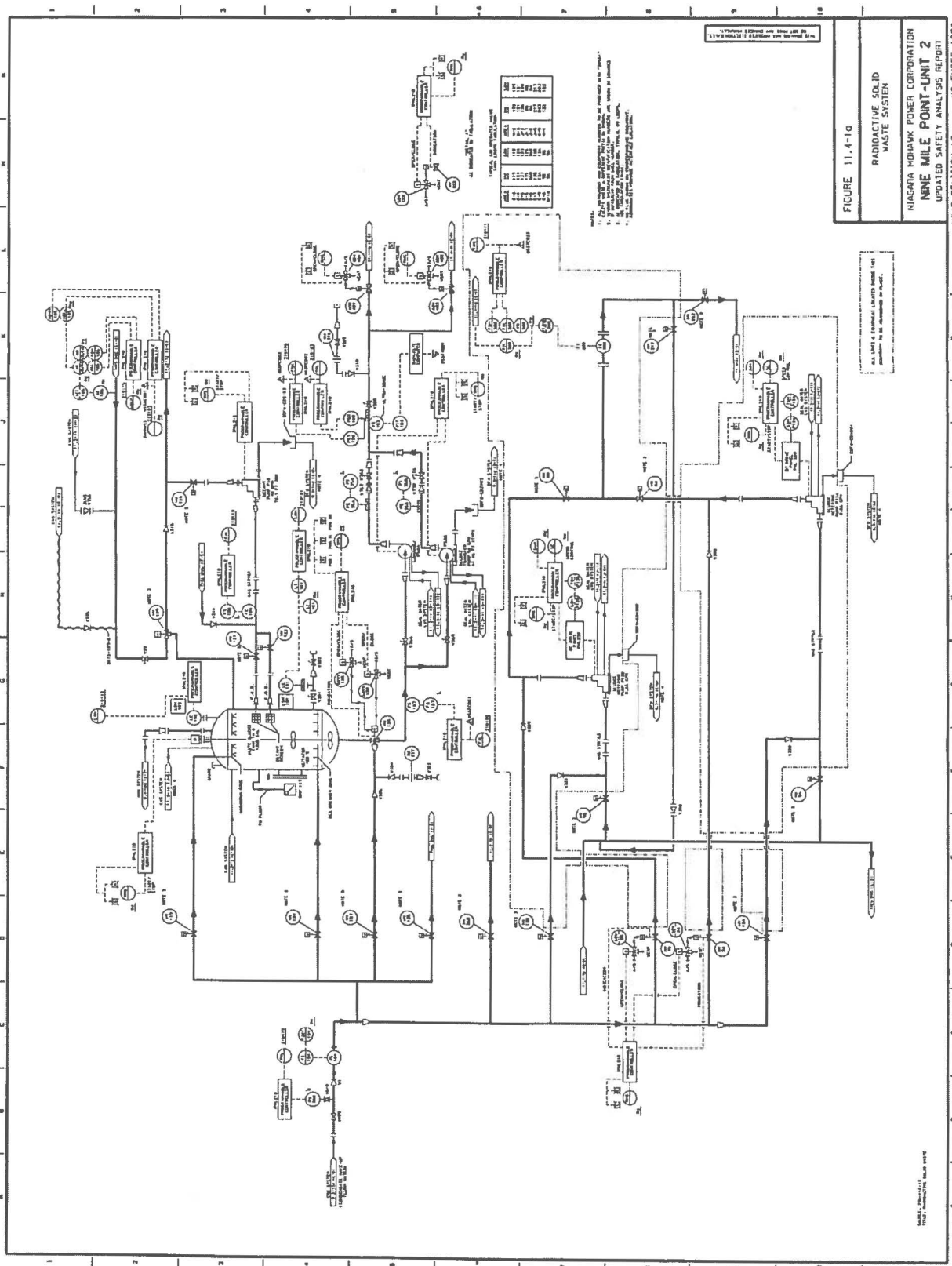
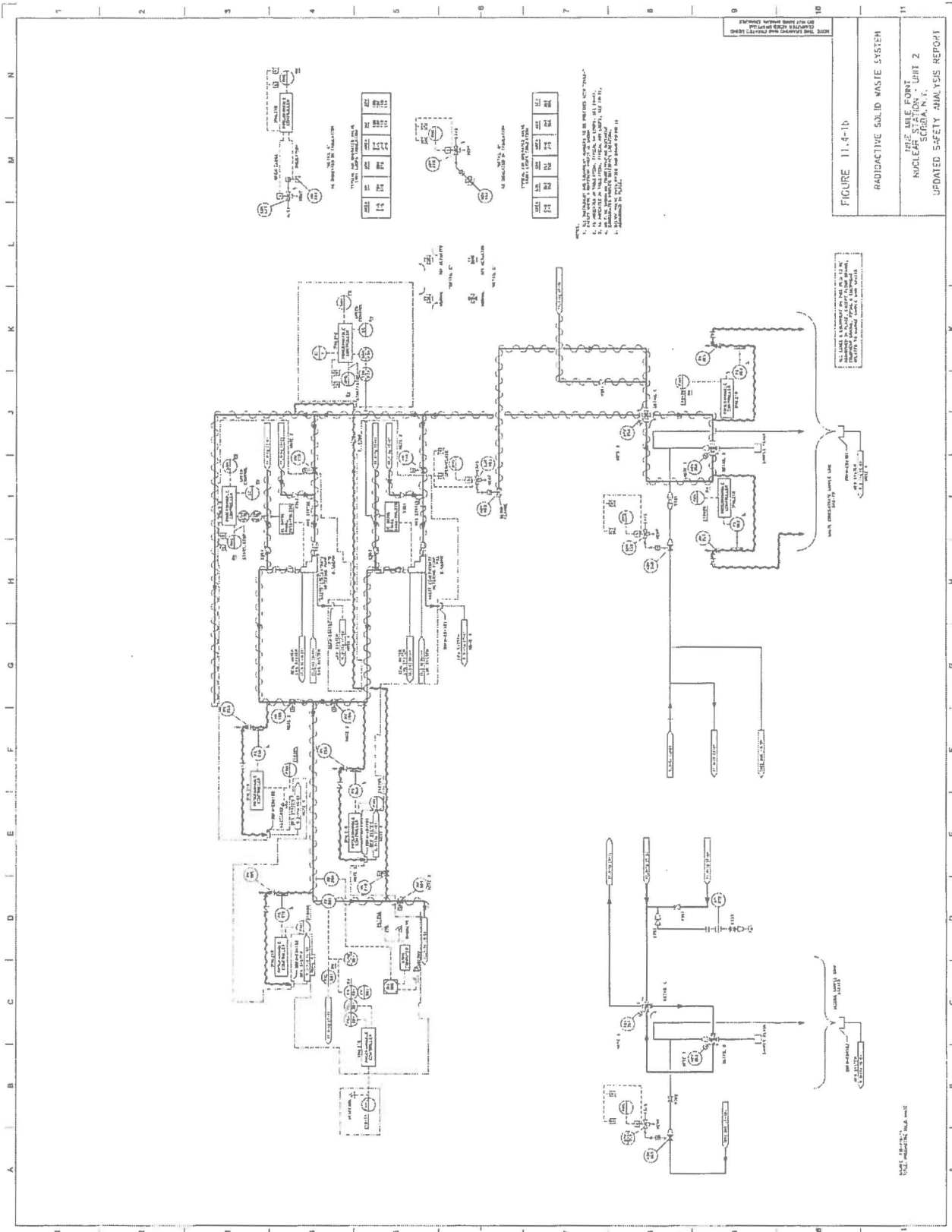


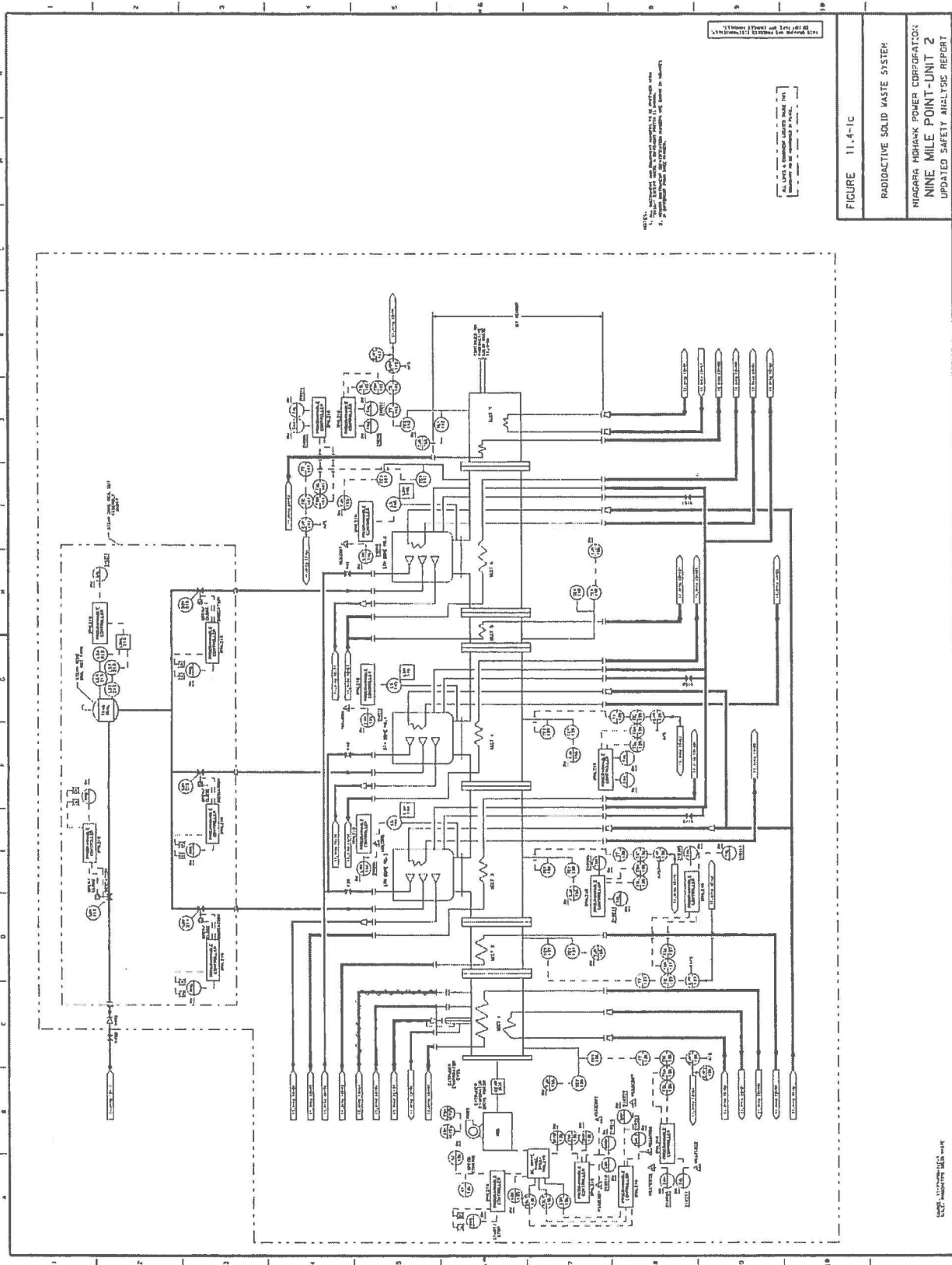
FIGURE 11.4-10

RADIATION MONITORING
WASTE SYSTEM

NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT-UNIT 2
UPDATED SAFETY ANALYSIS REPORT

USAR REVISION 12 NOVEMBER 1998





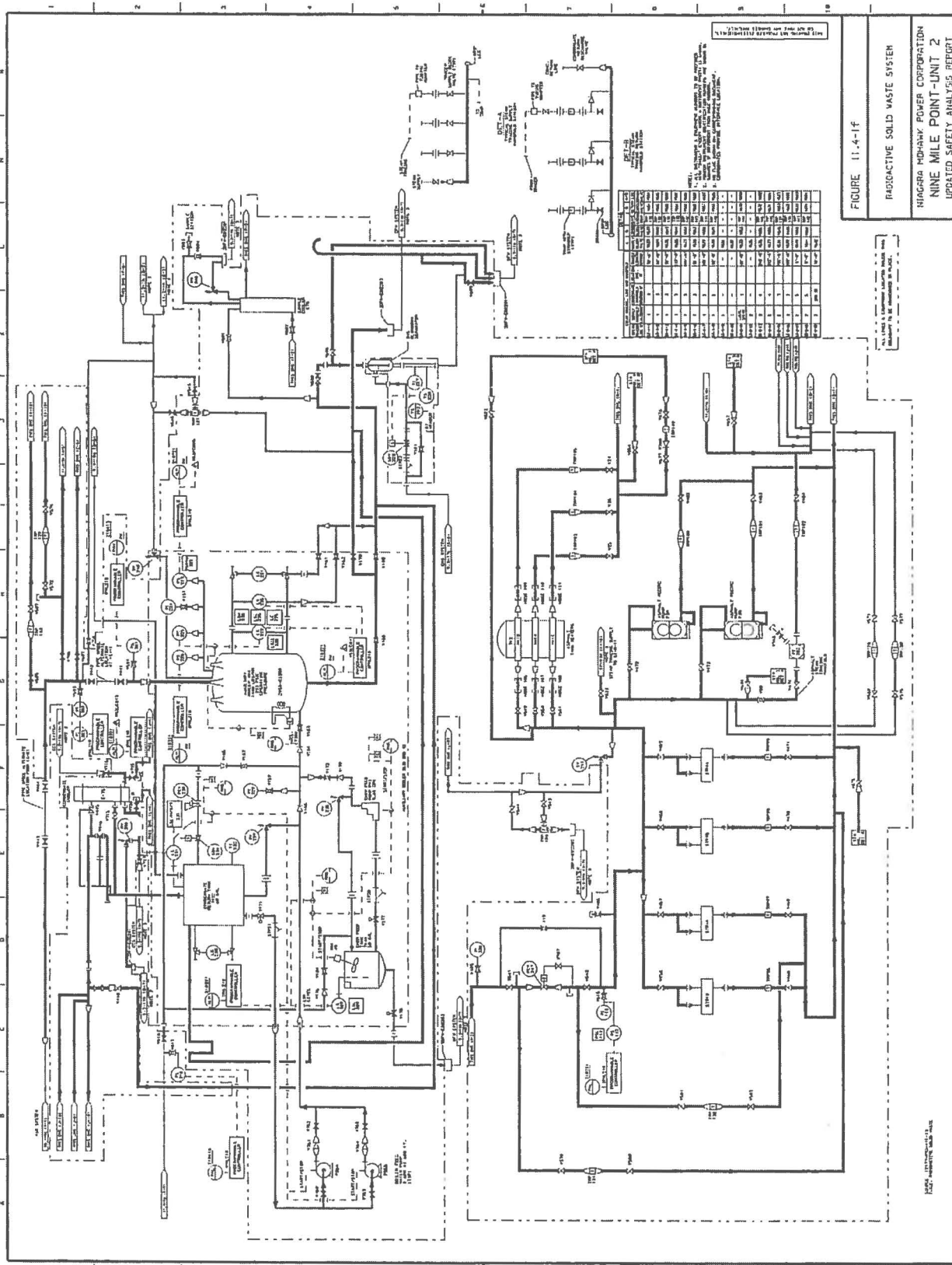


FIGURE 11.4-1f
 RADIOACTIVE SOLID WASTE SYSTEM
 NIAGARA MOHAWK POWER CORPORATION
 NINE MILE POINT-UNIT 2
 UPDATED SAFETY ANALYSIS REPORT

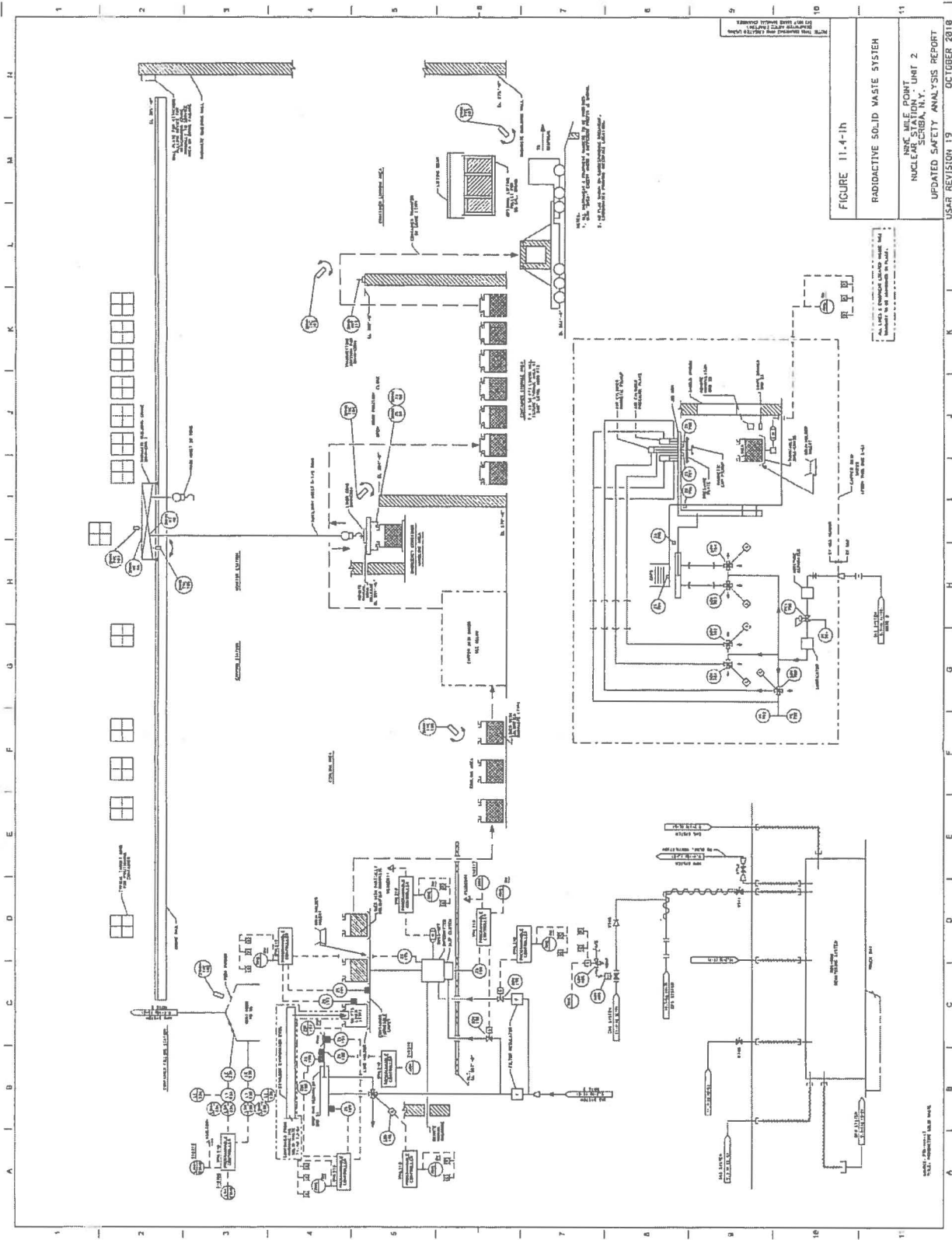


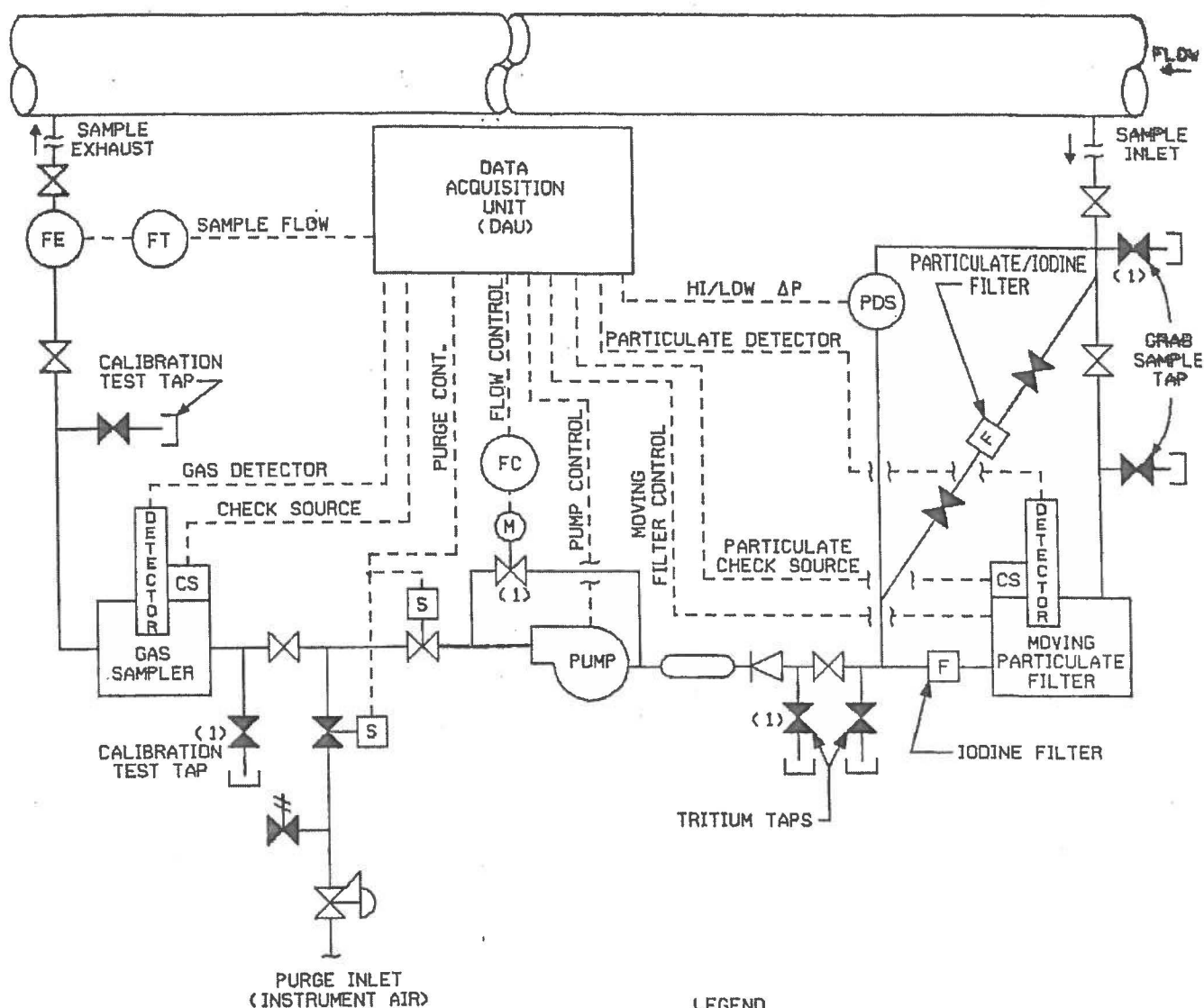
FIGURE 11.4-1h

RADIOACTIVE SOLID WASTE SYSTEM

INDIAN POINT
NUCLEAR STATION, UNIT 2
SECAUCUS, N.J.

UPDATED SAFETY ANALYSIS REPORT
OCTOBER 2018

SCALE: 1/8" = 1'-0"



NOTES:

(1) GLOBE VALVE. ALL OTHER MANUALLY OPERATED VALVES ARE BALL VALVES.

OFFLINE GAS PARTICULATE MONITOR

2HVR=CAB14A
2HVR=CAB32A
2CMS=CAB10A
2CMS=CAB10B

AUTOMATIC FLOW CONTROL FUNCTION
DISABLED FOR 2CMS=CAB10A AND
2CMS=CAB10B.

LEGEND

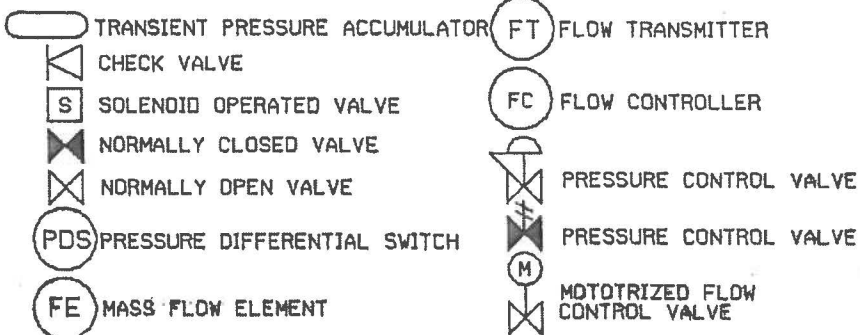


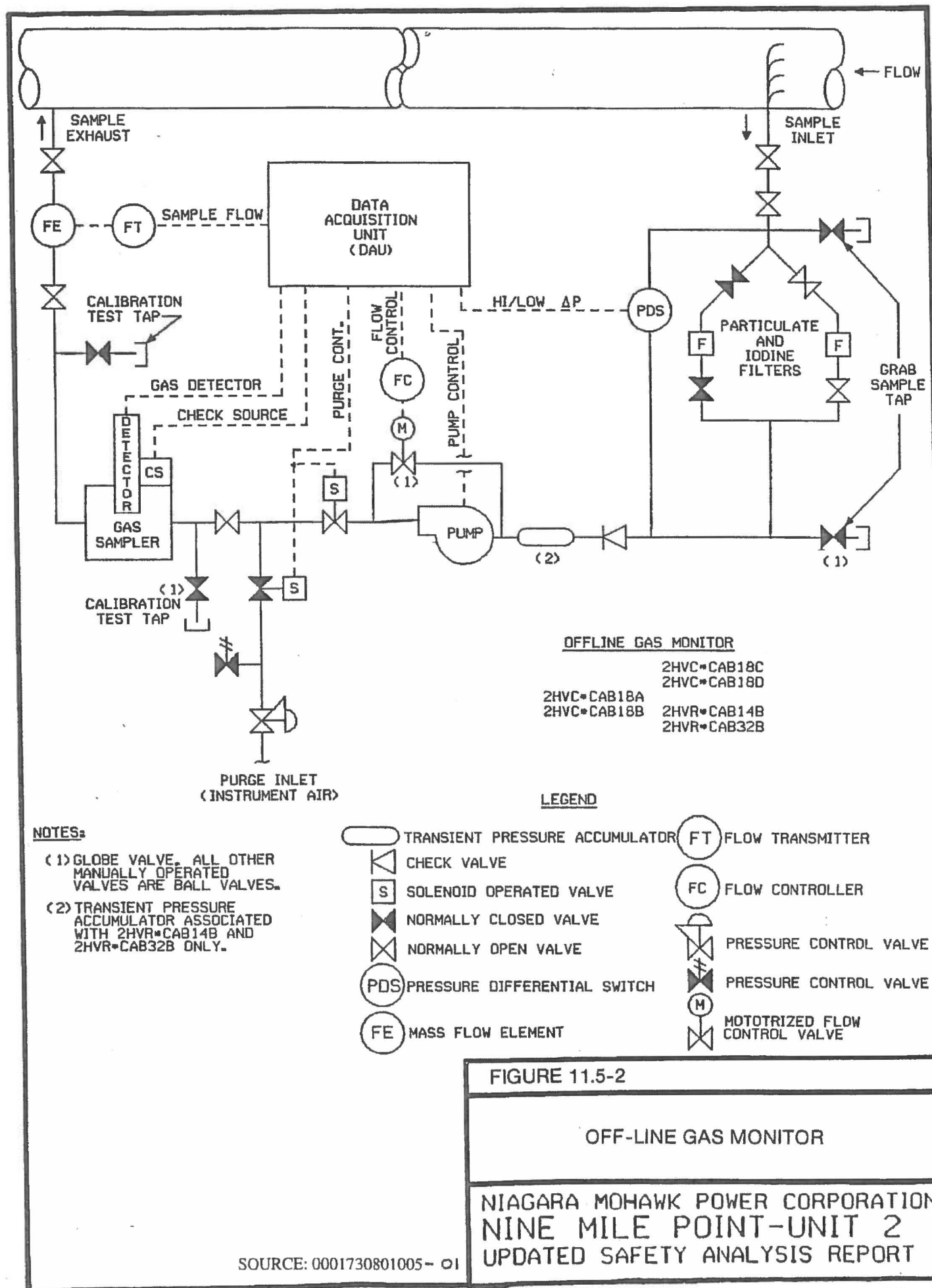
FIGURE 11.5-1

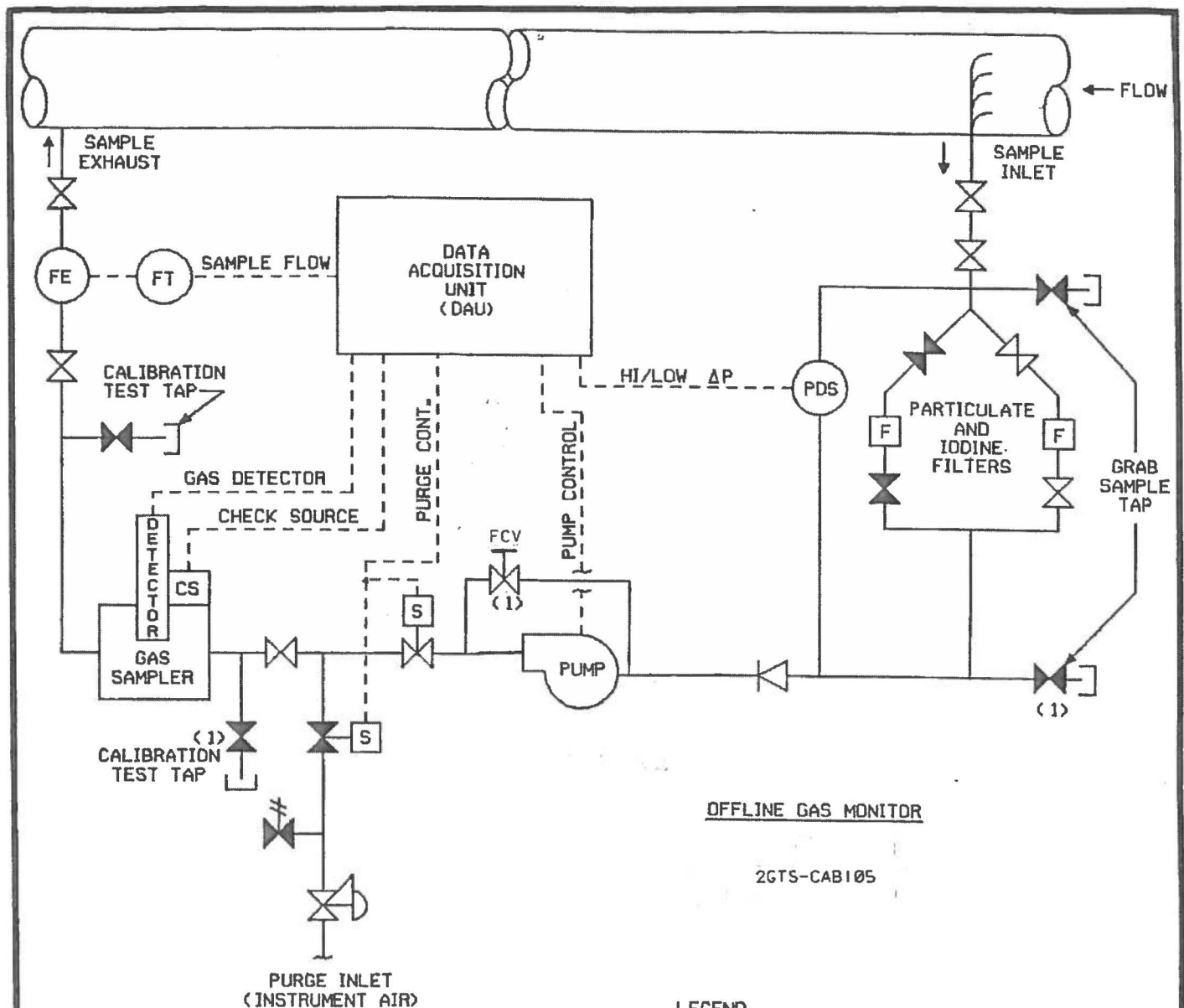
OFF-LINE GAS AND
PARTICULATE MONITOR

NINE MILE POINT
NUCLEAR STATION - UNIT 2
SCRIBA N.Y.

UPDATED SAFETY ANALYSIS REPORT

THIS DRAWING CREATED ELECTRONICALLY





NOTES:

(1) GLOBE VALVE. ALL OTHER MANUALLY OPERATED VALVES ARE BALL VALVES.

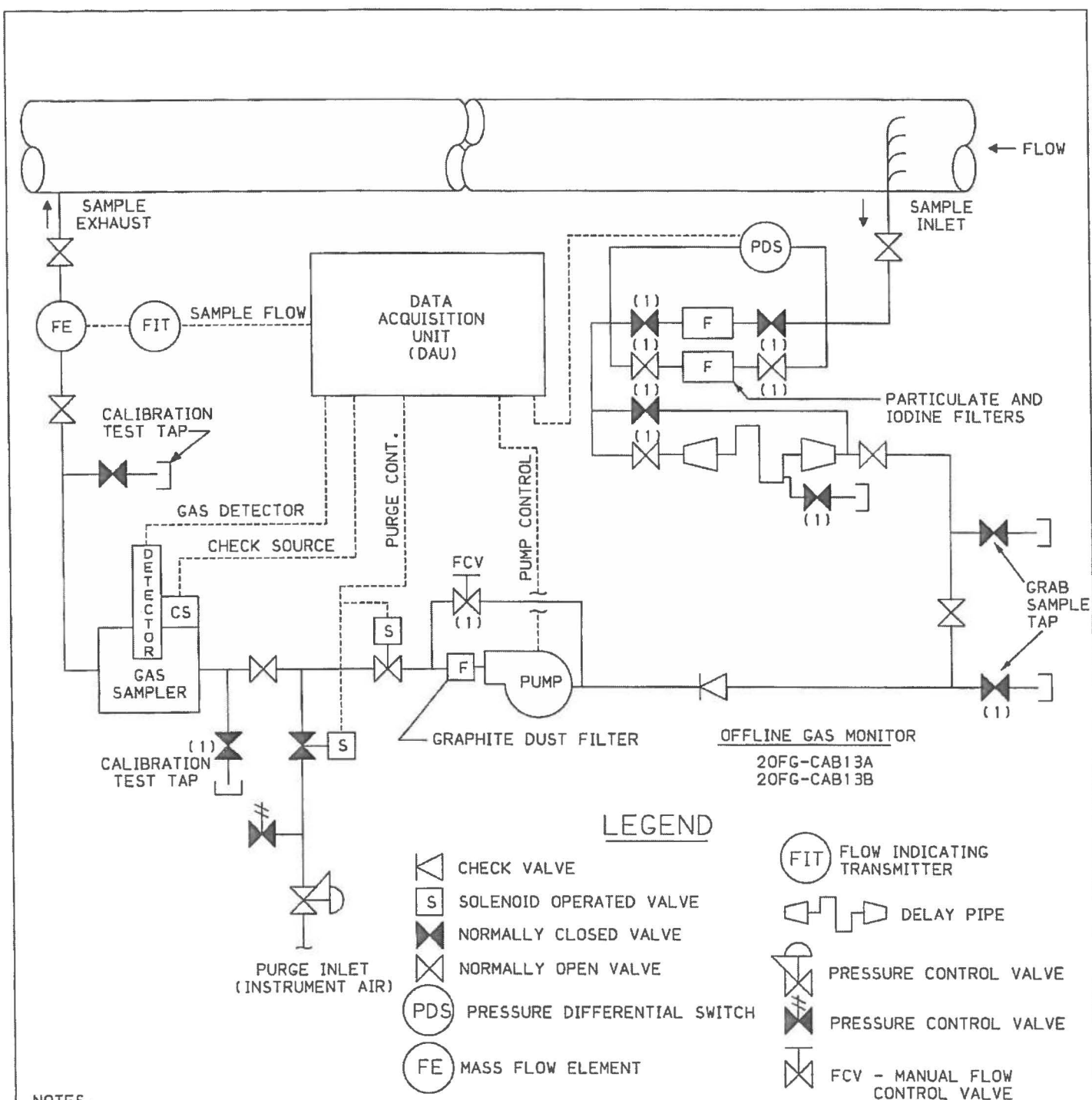
LEGEND

	CHECK VALVE		FLOW TRANSMITTER
	SOLENOID OPERATED VALVE		PRESSURE CONTROL VALVE
	NORMALLY CLOSED VALVE		PRESSURE CONTROL VALVE
	NORMALLY OPEN VALVE		FCV - MANUAL FLOW CONTROL VALVE
	PRESSURE DIFFERENTIAL SWITCH		
	MASS FLOW ELEMENT		

FIGURE 11.5-2a

OFF-LINE GAS MONITOR

NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT-UNIT 2
UPDATED SAFETY ANALYSIS REPORT



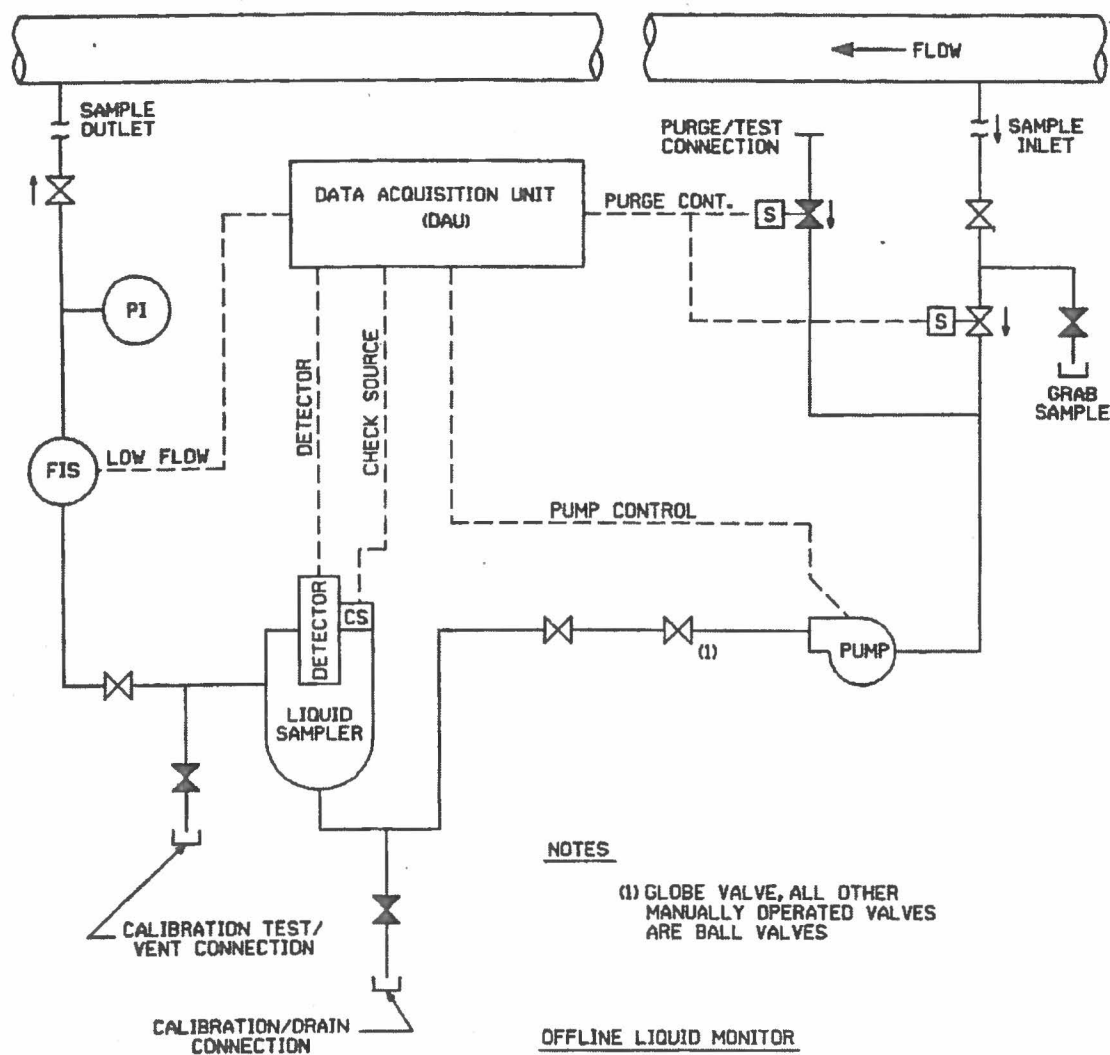
NOTES.

(1) GLOBE VALVE. ALL OTHER MANUALLY OPERATED VALVES ARE BALL VALVES.

FIGURE 11.5-2b

OFF-LINE GAS MONITOR

NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT - UNIT 2
UPDATED SAFETY ANALYSIS REPORT



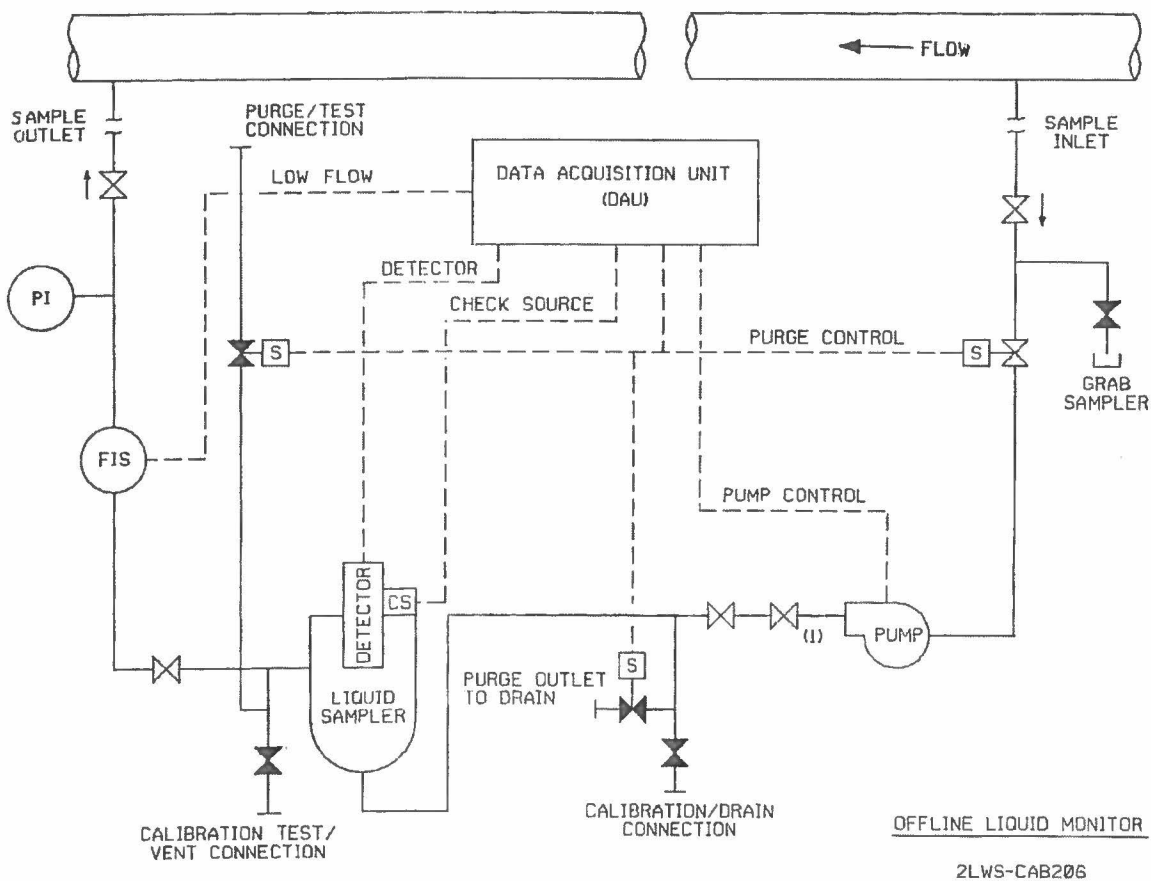
LEGEND

- PI PRESSURE INDICATOR
- FIS FLOW INDICATING SW.
- S SOLENOID OPERATED SW.
- ✕ NORMALLY CLOSED VALVE
- ✕ NORMALLY OPEN VALVE

FIGURE 11.5-3a

OFF-LINE LIQUID MONITOR

NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT-UNIT 2
UPDATED SAFETY ANALYSIS REPORT



LEGEND

- PI PRESSURE INDICATOR
- FIS FLOW INDICATING SW.
- S SOLENOID OPERATED SW.
- ✕ NORMALLY CLOSED VALVE
- ✕ NORMALLY OPEN VALVE

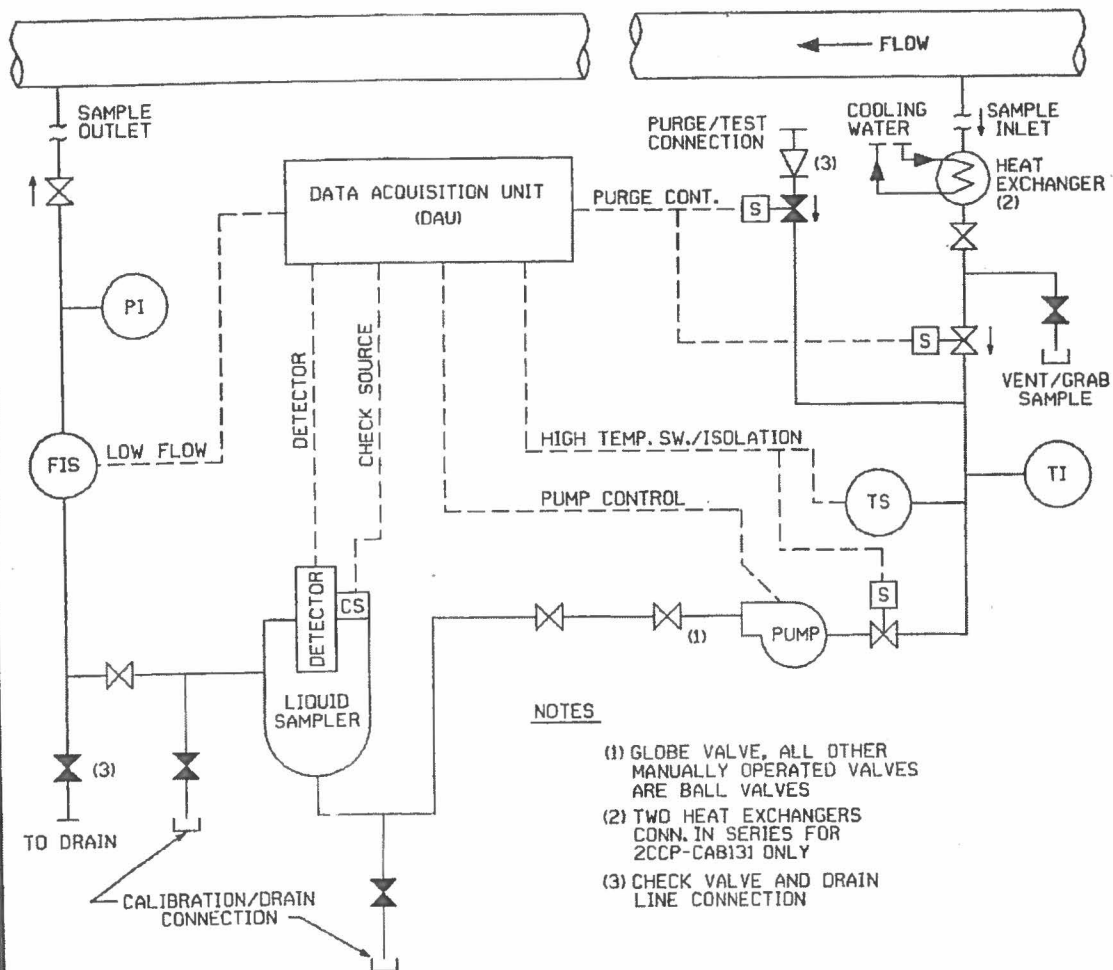
NOTES

- (1) GLOBE VALVE, ALL OTHER MANUALLY OPERATED VALVES ARE BALL VALVES

FIGURE 11.5-3b

OFF-LINE LIQUID MONITOR

NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT-UNIT 2
UPDATED SAFETY ANALYSIS REPORT



NOTES

- (1) GLOBE VALVE, ALL OTHER MANUALLY OPERATED VALVES ARE BALL VALVES
- (2) TWO HEAT EXCHANGERS CONN. IN SERIES FOR 2CCP-CAB131 ONLY
- (3) CHECK VALVE AND DRAIN LINE CONNECTION

LEGEND

- PI PRESSURE INDICATOR
- FIS FLOW INDICATING SW.
- TI TEMP. INDICATOR
- TS TEMP. SWITCH
- S SOLENOIOD OPERATED SW.
- ◀ NORMALLY CLOSED VALVE
- ✕ NORMALLY OPEN VALVE

OFFLINE LIQUID MONITOR

2CCP-CAB131
2SFC-CAB142

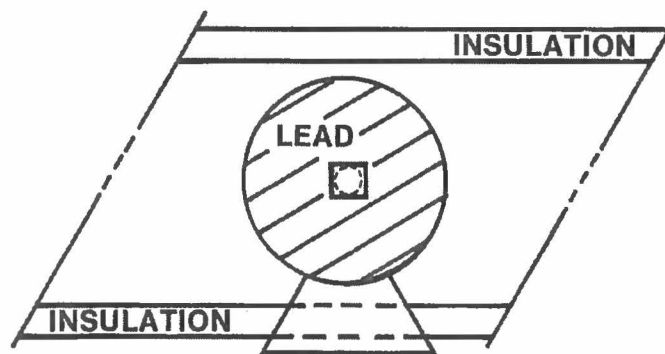
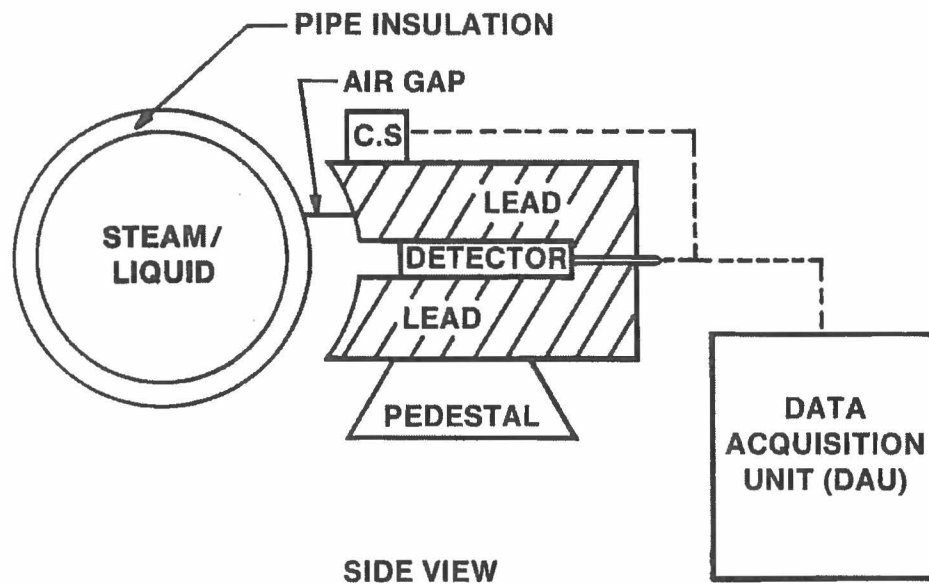
USAR REVISION 0

APRIL 1989

FIGURE 11.5-3c

OFF-LINE LIQUID MONITOR

NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT-UNIT 2
UPDATED SAFETY ANALYSIS REPORT



REAR VIEW

FIGURE 11.5-4

ON-LINE STEAM OR
LIQUID MONITOR

NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT-UNIT 2
FINAL SAFETY ANALYSIS REPORT

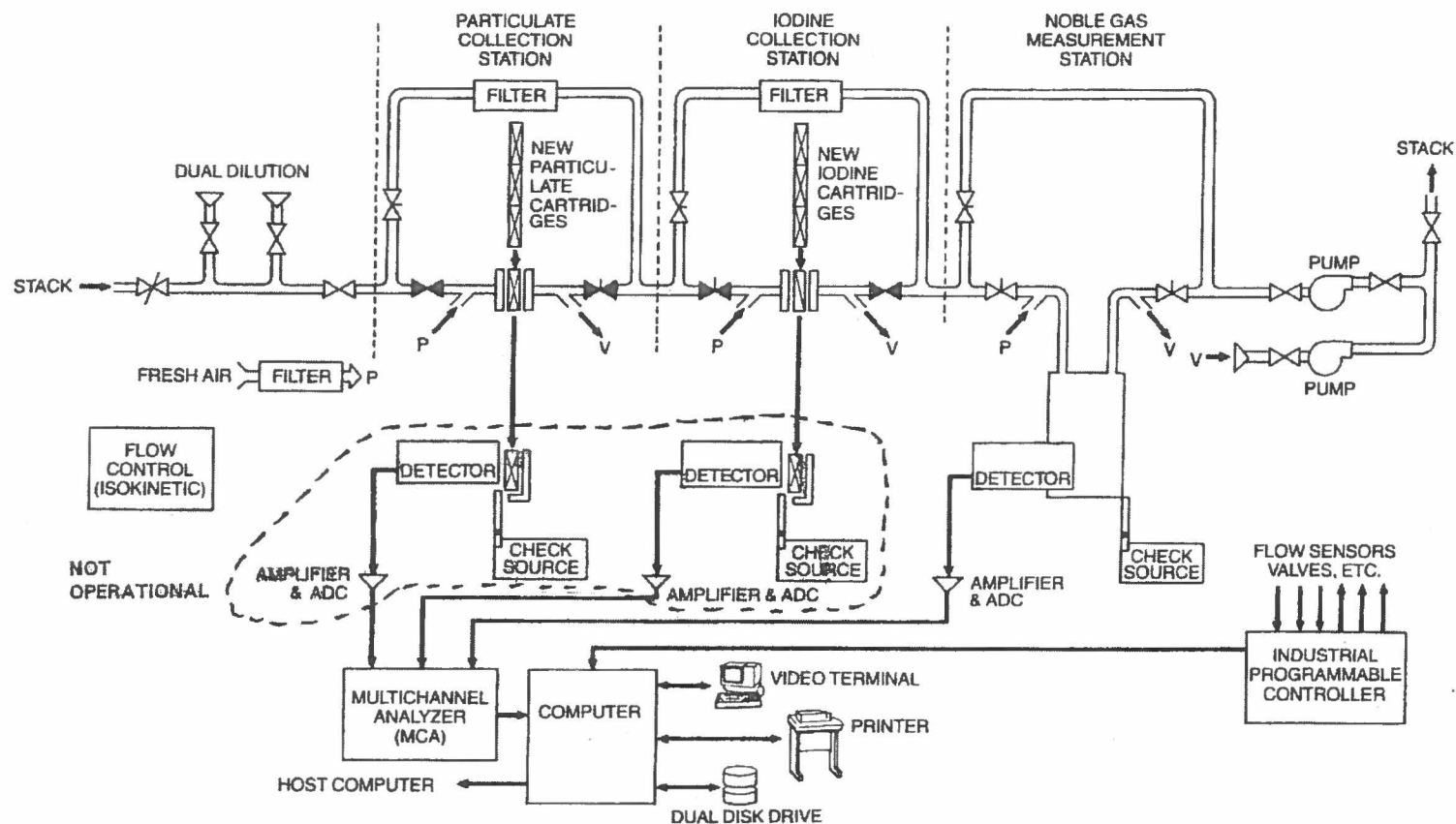
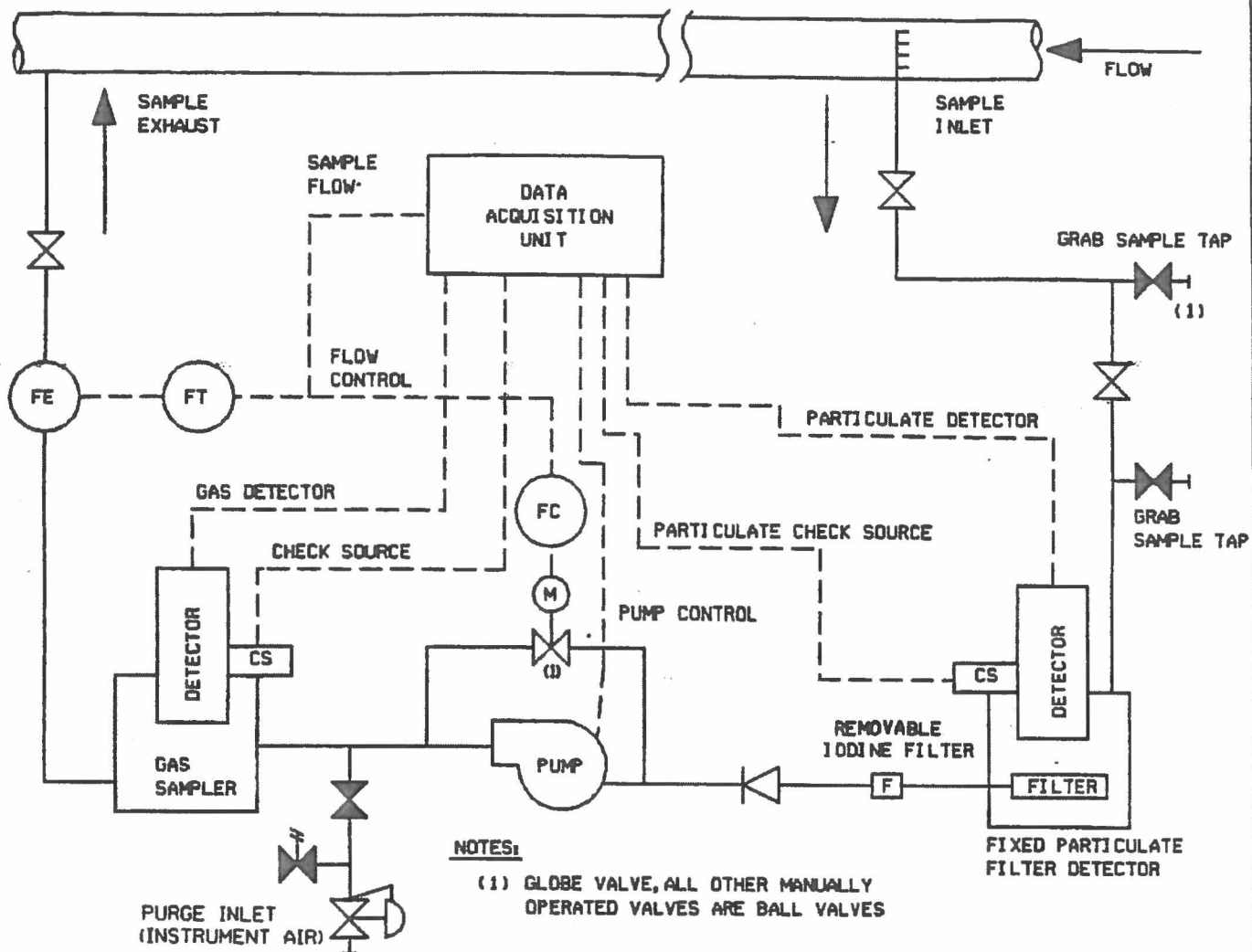


FIGURE 11.5-5

BLOCK DIAGRAM
TYPICAL GASEOUS EFFLUENT
MONITORING SYSTEM

NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT-UNIT 2
UPDATED SAFETY ANALYSIS REPORT



LEGEND

- MOTORIZED FLOW CONTROL VALVE
- CHECK VALVE
- SOLENIOD OPERATED VALVE
- NORMALLY CLOSED VALVE
- NORMALLY OPEN VALVE
- FLOW CONTROLLER
- MASS FLOW ELEMENT
- FLOW TRANSMITTER
- PRESSURE CONTROL VALVE
- PRESSURE CONTROL VALVE

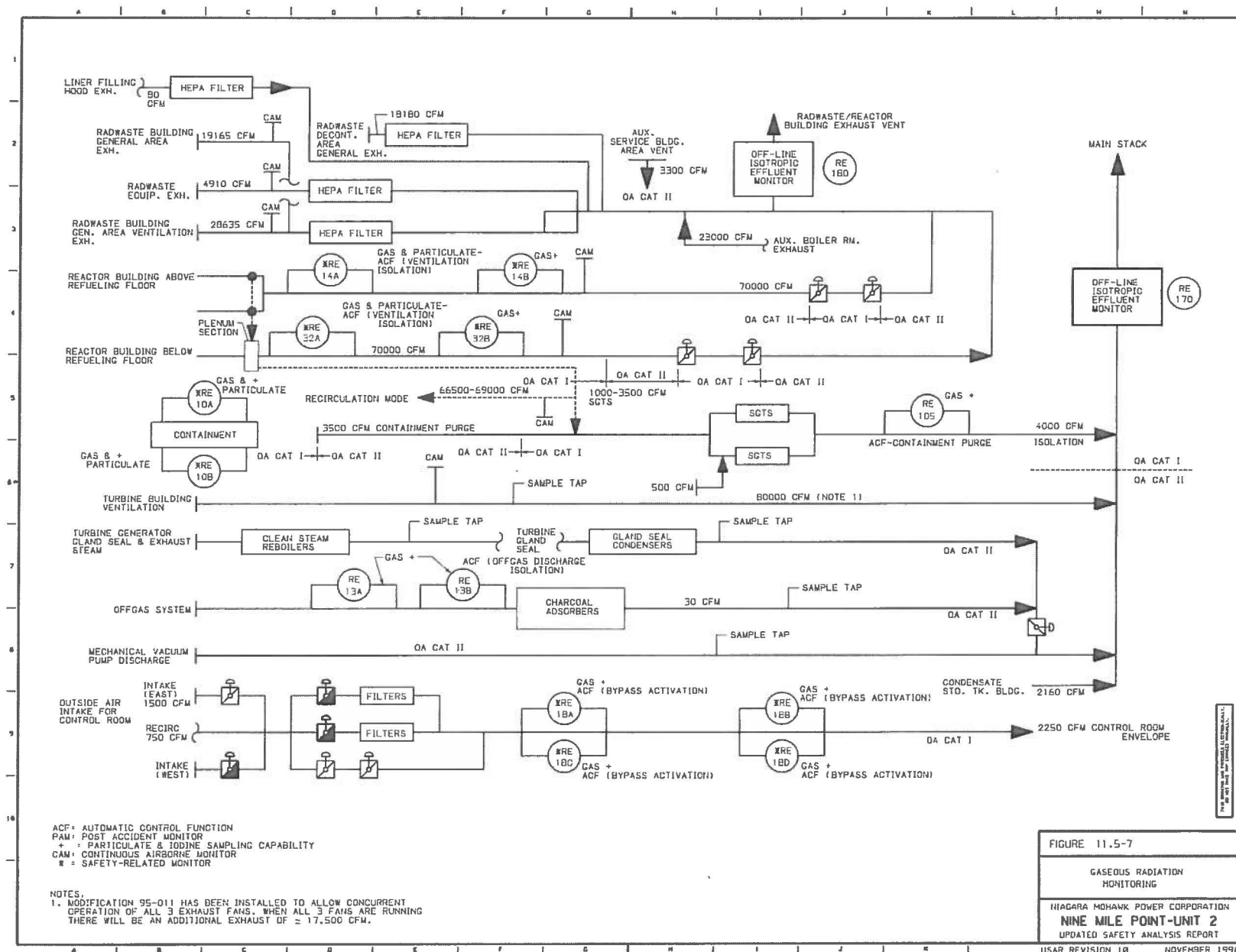
MOBILE OFFLINE GAS PARTICULATE MONITOR

2HVV-CAB 195	2HVR-CAB 229
2HVV-CAB 197	2HVR-CAB 237
2HVV-CAB 199	2HVR-CAB 238
	2HVT-CAB 206

FIGURE 11.5-6

ACCEPTABLE CONTINUOUS
AIRBORNE MONITOR

NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT-UNIT 2
UPDATED SAFETY ANALYSIS REPORT



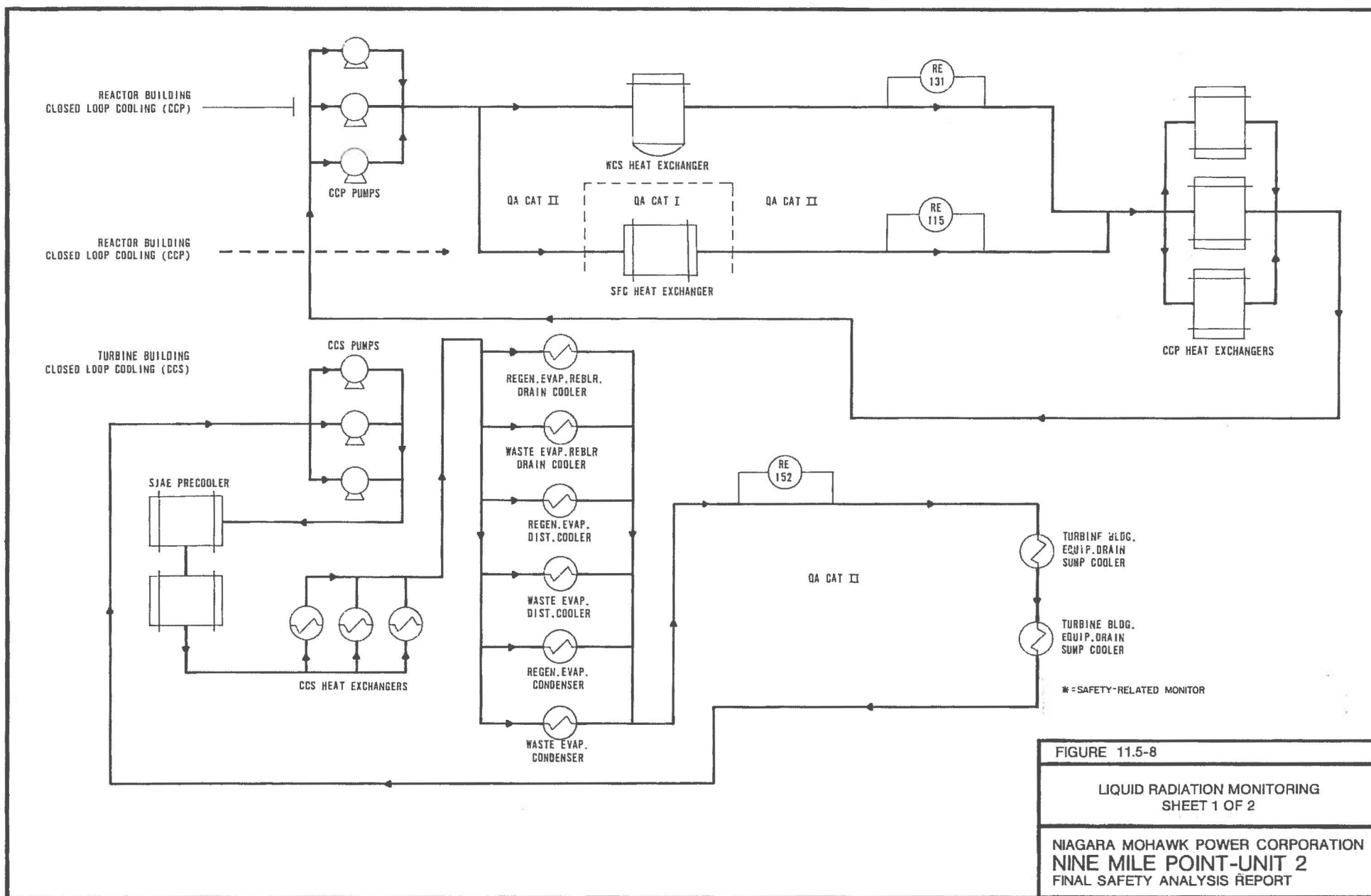


FIGURE 11.5-8

LIQUID RADIATION MONITORING
SHEET 1 OF 2

NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT-UNIT 2
FINAL SAFETY ANALYSIS REPORT

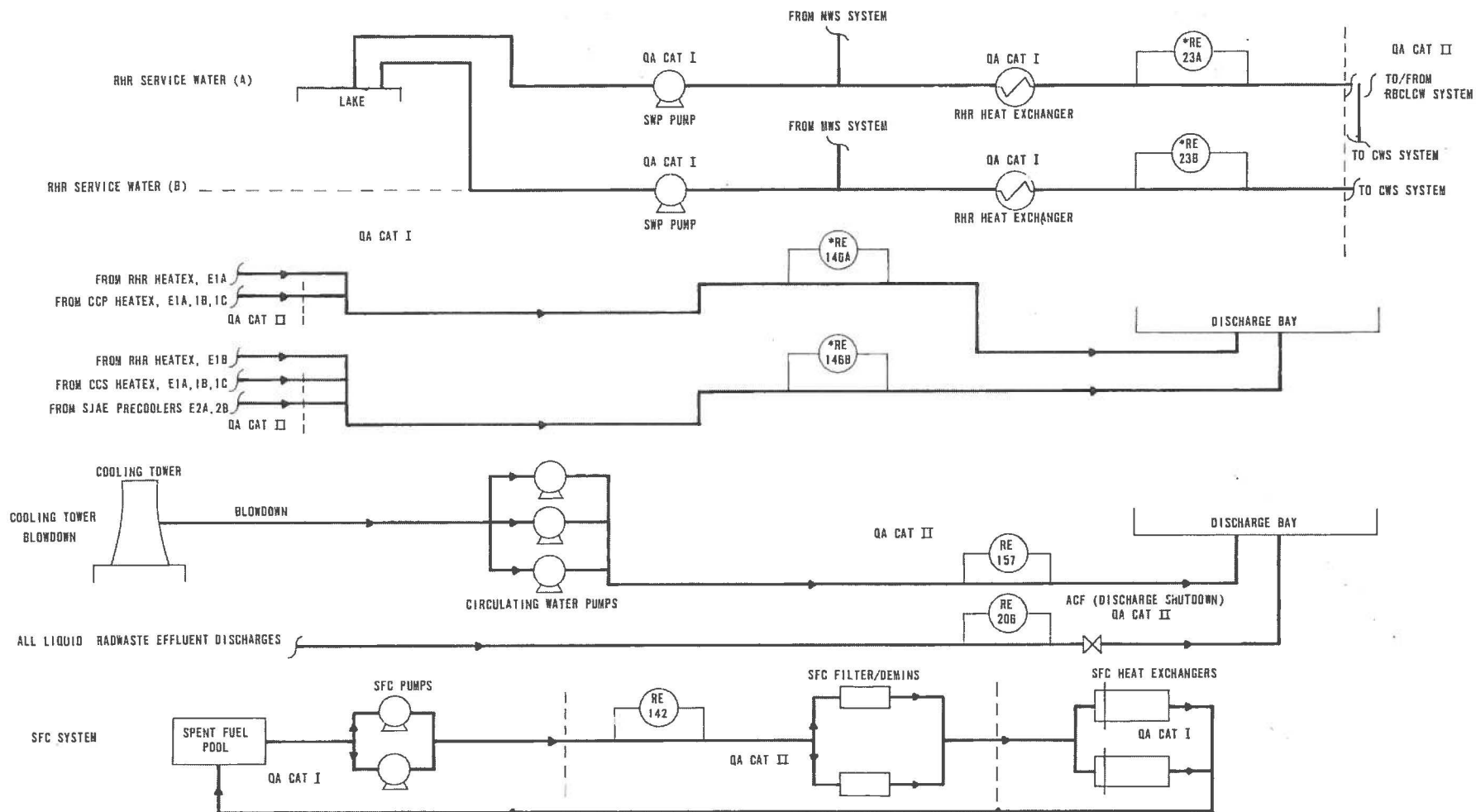


FIGURE 11.5-8

LIQUID RADIATION MONITORING
SHEET 2 OF 2

NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT-UNIT 2
FINAL SAFETY ANALYSIS REPORT