

FIGURE 11.1-1

NOBLE RADIOGAS DECAY  
CONSTANT EXPONENT  
FREQUENCY HISTOGRAM

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

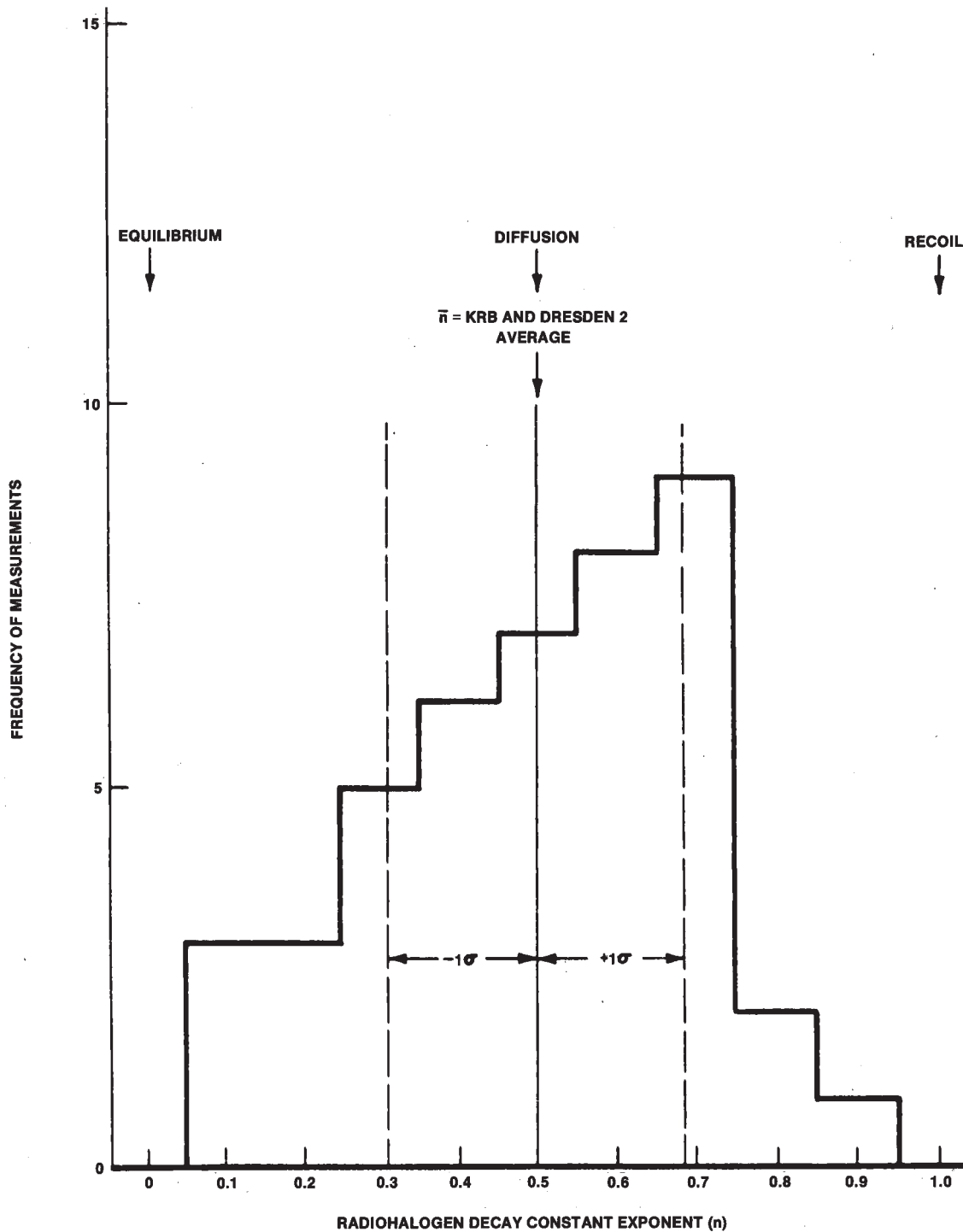


FIGURE 11.1-2

RADIOHALOGEN DECAY  
CONSTANT EXPONENT  
FREQUENCY HISTOGRAM

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

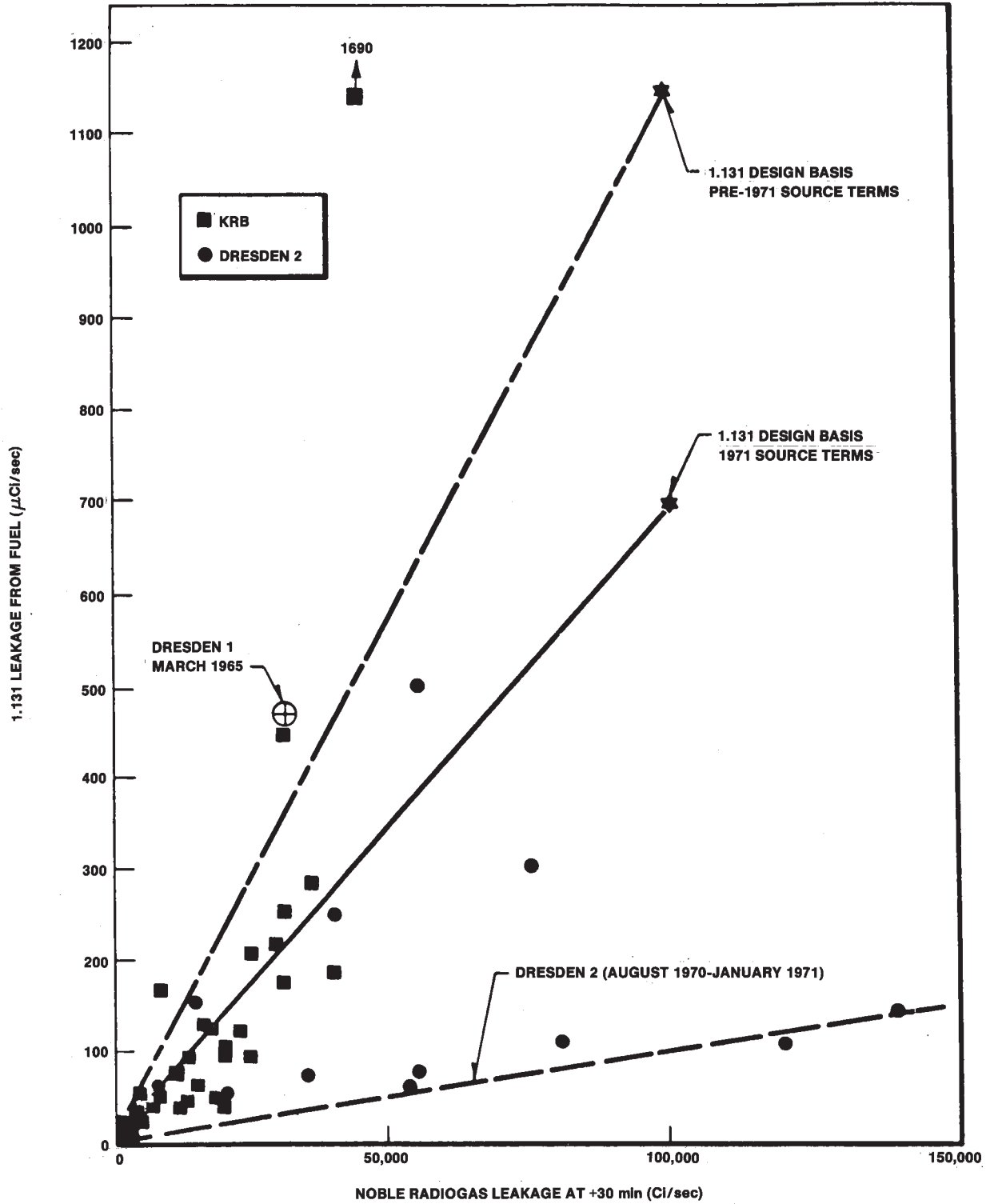
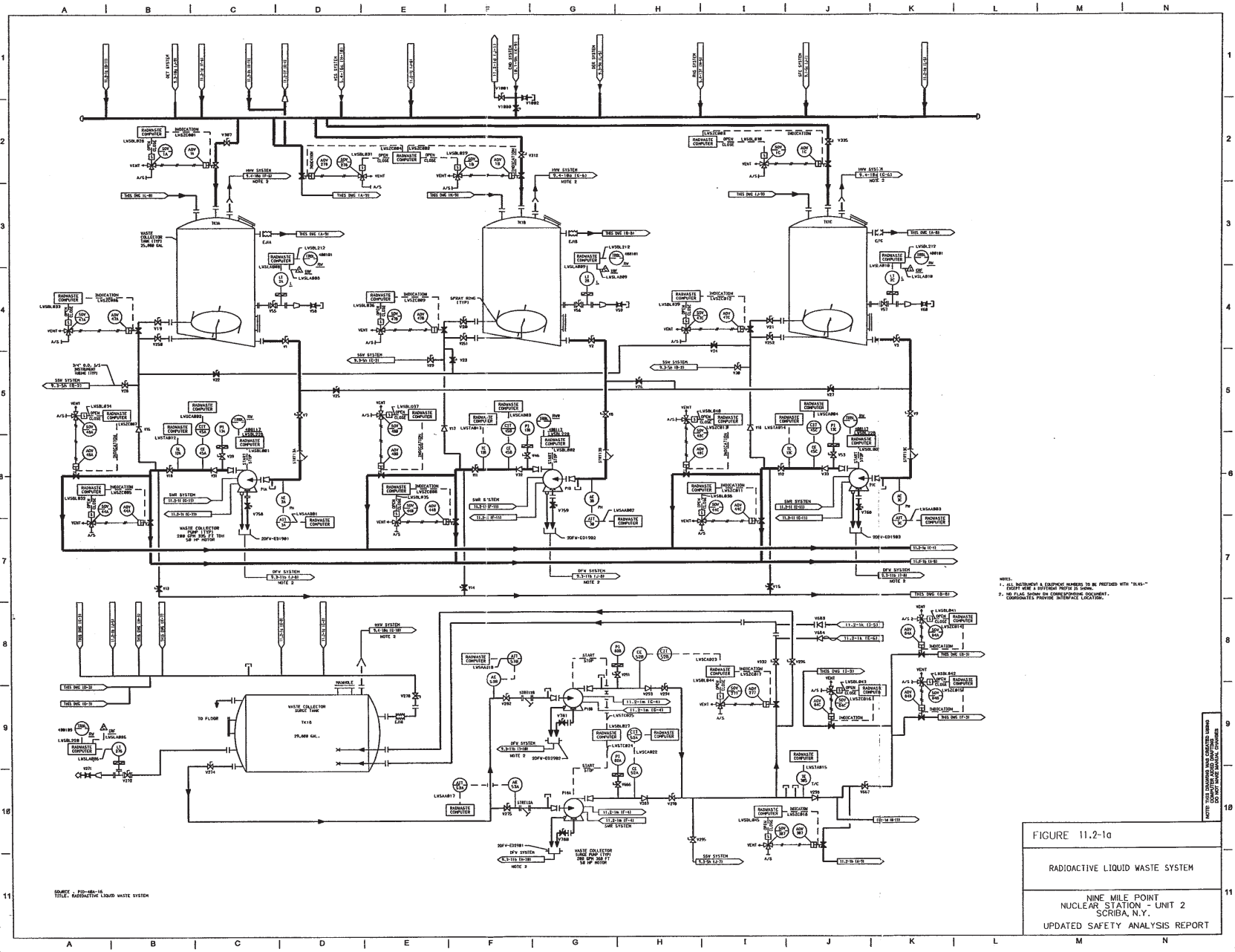


FIGURE 11.1-3

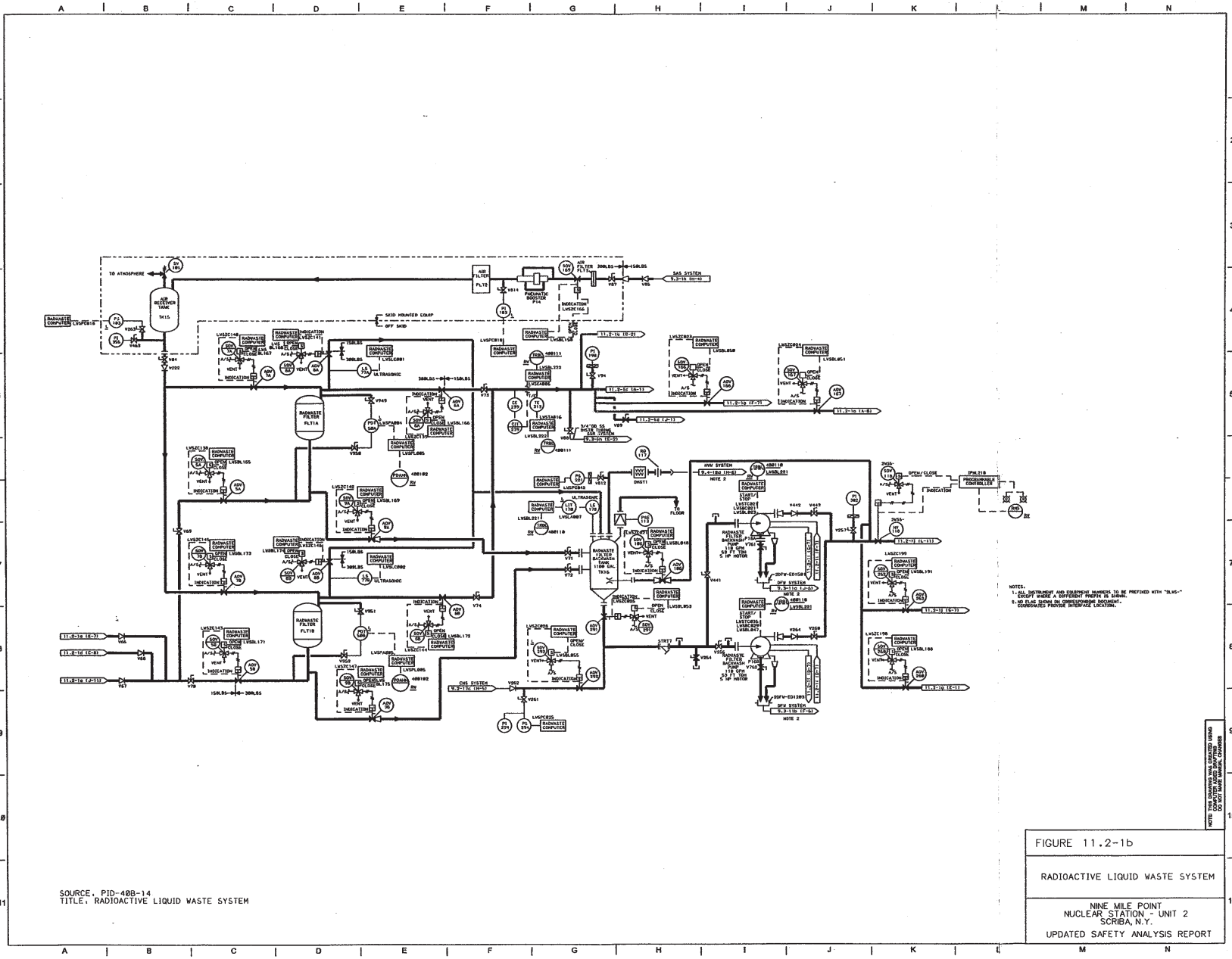
NOBLE RADIOGAS LEAKAGE  
VERSUS 1-131 LEAKAGE

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



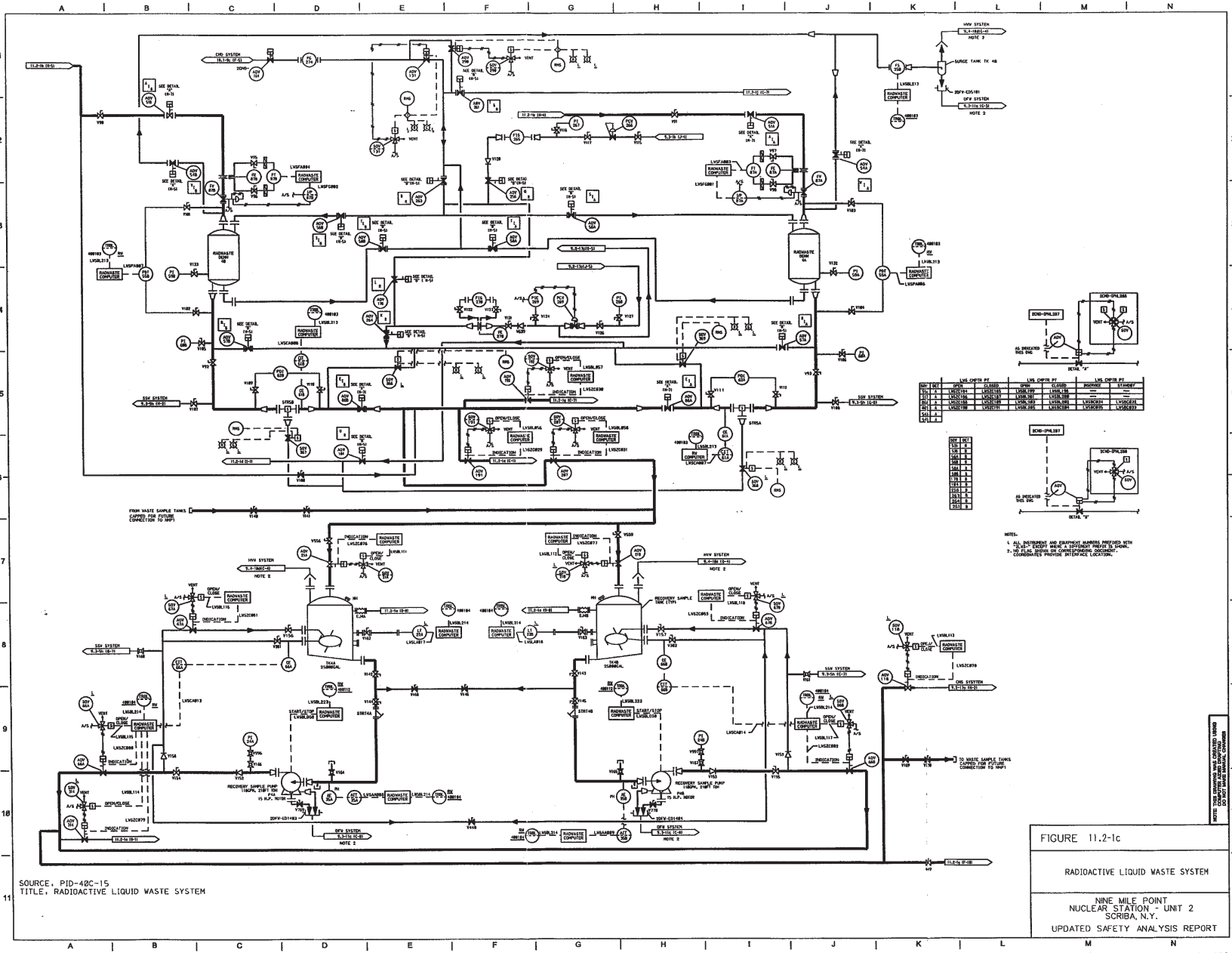
NOTE:  
 1. ALL INSTRUMENT & EQUIPMENT NUMBERS TO BE PREFIXED WITH "NLS-2"  
 EXCEPT WHERE SHOWN OTHERWISE.  
 2. NO FLOW DIRECTION IS INDICATED UNLESS OTHERWISE SPECIFIED.

FIGURE 11.2-10  
 RADIOACTIVE LIQUID WASTE SYSTEM  
 NINE MILE POINT  
 NUCLEAR STATION - UNIT 2  
 SCRIBA, N.Y.  
 UPDATED SAFETY ANALYSIS REPORT



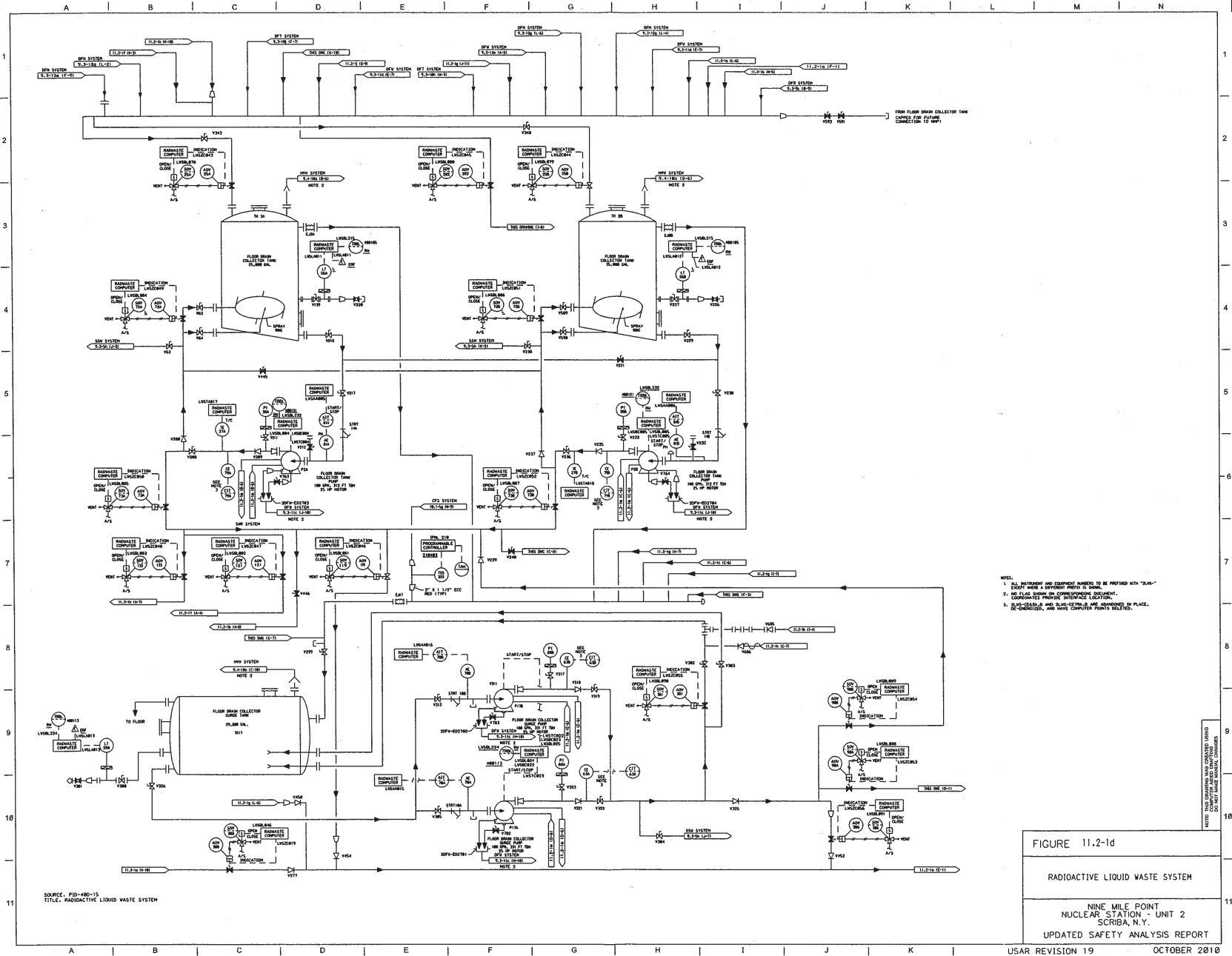
SOURCE: PID-49B-14  
 TITLE: RADIOACTIVE LIQUID WASTE SYSTEM

FIGURE 11.2-1b  
 RADIOACTIVE LIQUID WASTE SYSTEM  
 NINE MILE POINT  
 NUCLEAR STATION - UNIT 2  
 SCRIBA, N.Y.  
 UPDATED SAFETY ANALYSIS REPORT



SOURCE: PID-40C-15  
TITLE: RADIOACTIVE LIQUID WASTE SYSTEM

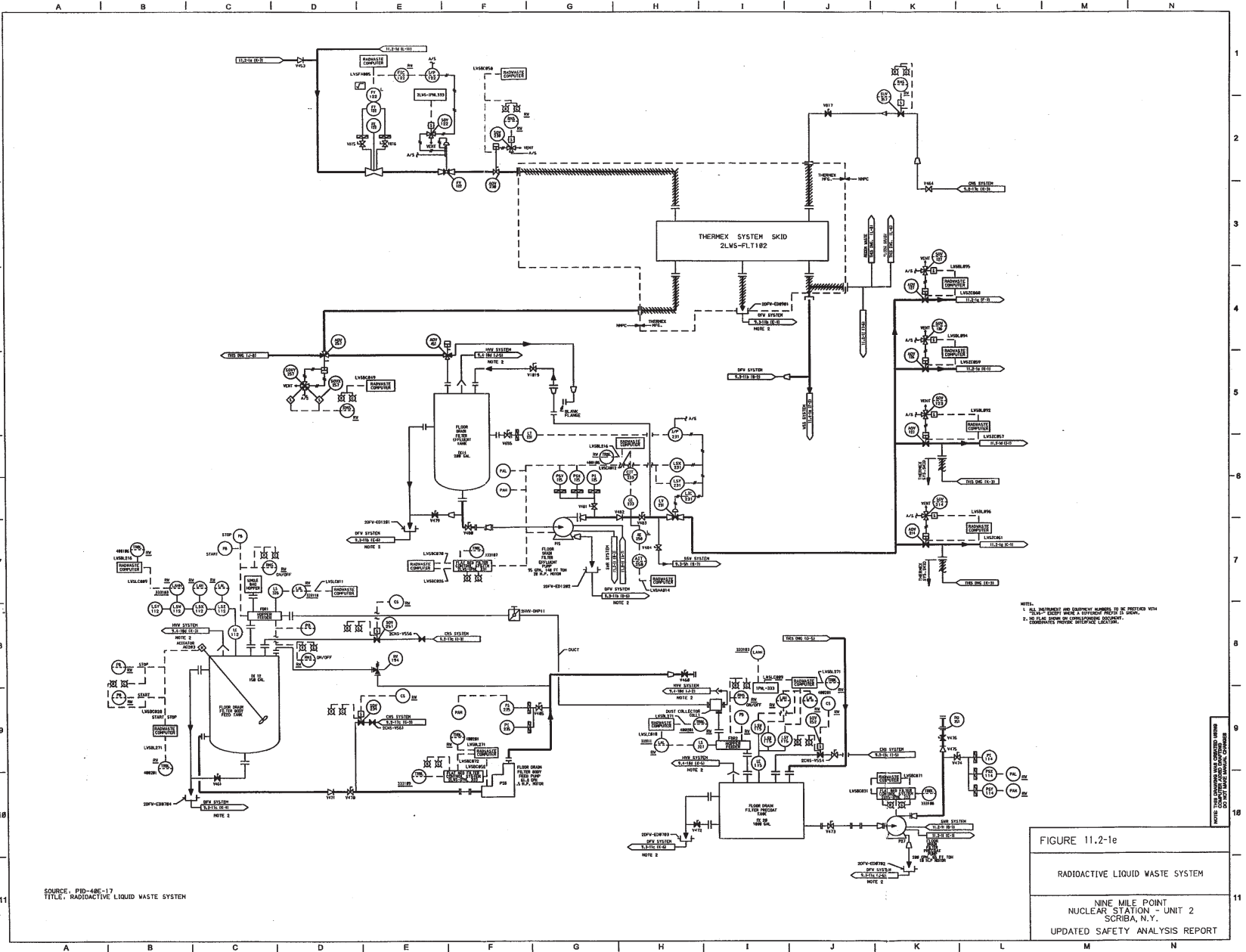
FIGURE 11.2-1c  
RADIOACTIVE LIQUID WASTE SYSTEM  
NINE MILE POINT  
NUCLEAR STATION - UNIT 2  
SCRIBA, N.Y.  
UPDATED SAFETY ANALYSIS REPORT



- NOTES:
1. ALL INSTRUMENTS AND EQUIPMENT SHOWN TO BE PROVIDED WITH "DUAL" EQUIPMENT IN A DIFFERENT PHYSICAL LOCATION.
  2. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
  3. DIMENSIONS IN THIS DRAWING ARE APPROVED BY PLACE, DE-DIMENSIONED, AND HAVE COMPUTER POINTS BELIEVED.

SOURCE: PFD-480-15  
 TITLE: RADIOACTIVE LIQUID WASTE SYSTEM

FIGURE 11.2-1d  
 RADIOACTIVE LIQUID WASTE SYSTEM  
 NINE MILE POINT  
 NUCLEAR STATION - UNIT 2  
 SCRIBA, N.Y.  
 UPDATED SAFETY ANALYSIS REPORT



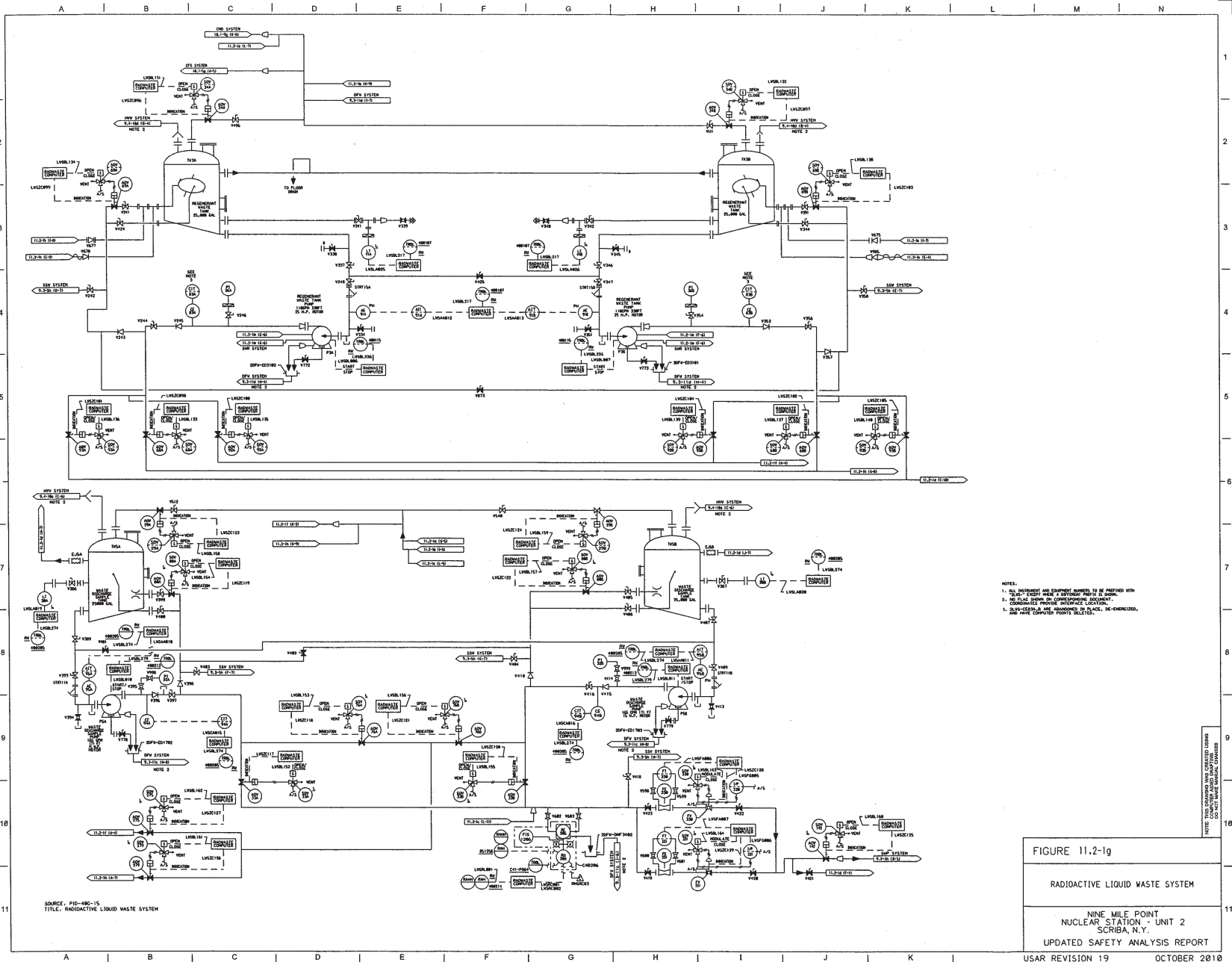
SOURCE: PID-48E-17  
 TITLE: RADIOACTIVE LIQUID WASTE SYSTEM

NOTE:  
 1. ALL INSTRUMENT AND EQUIPMENT NUMBERS TO BE CHECKED WITH  
 2. ALL PIPE SYMBOLS TO BE CHECKED WITH "PIPING" DRAWING  
 3. ALL PIPE SYMBOLS TO BE CHECKED WITH "PIPELINE" DRAWING

FIGURE 11.2-1e  
 RADIOACTIVE LIQUID WASTE SYSTEM  
 NINE MILE POINT  
 NUCLEAR STATION - UNIT 2  
 SCRIBA, N.Y.  
 UPDATED SAFETY ANALYSIS REPORT







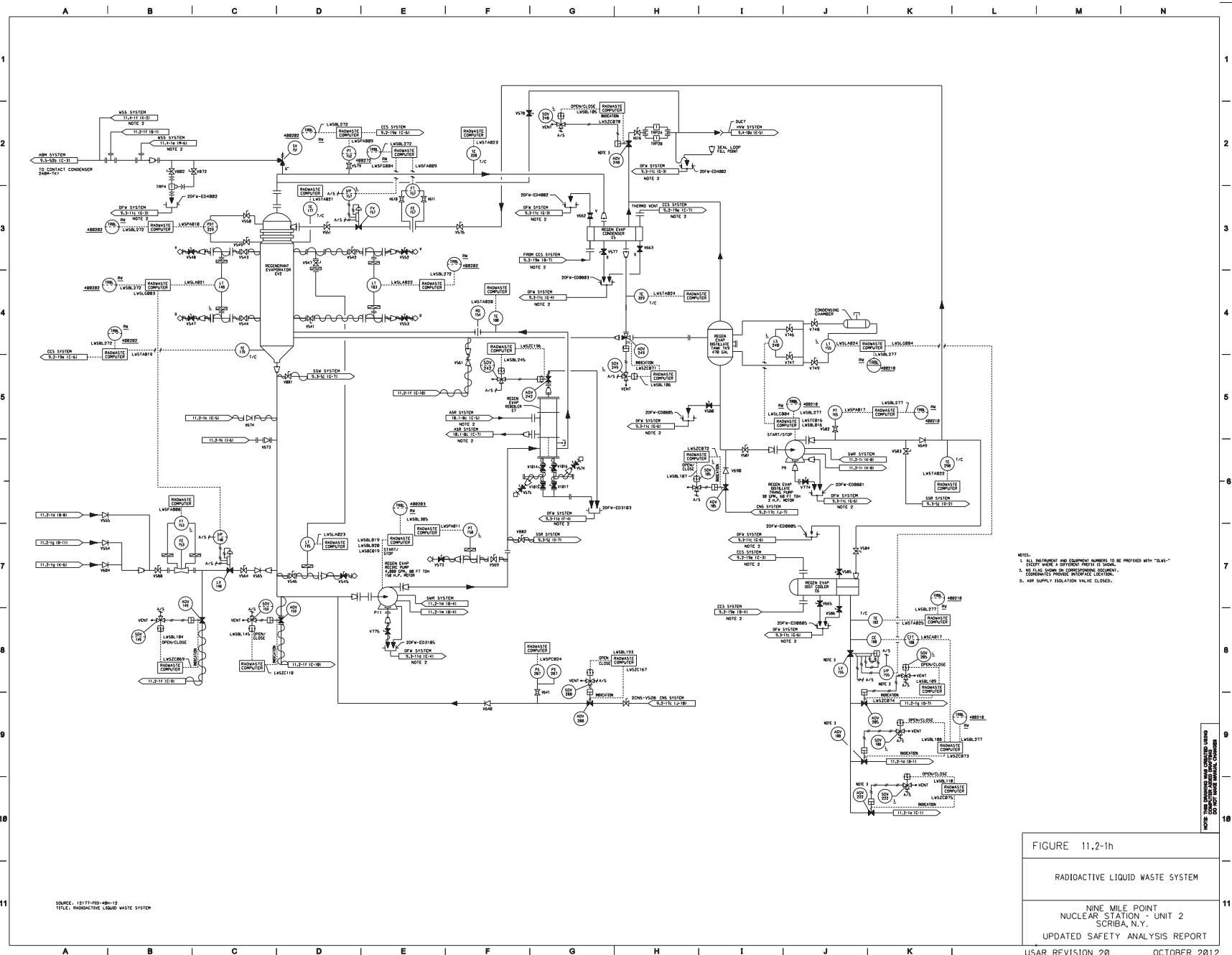
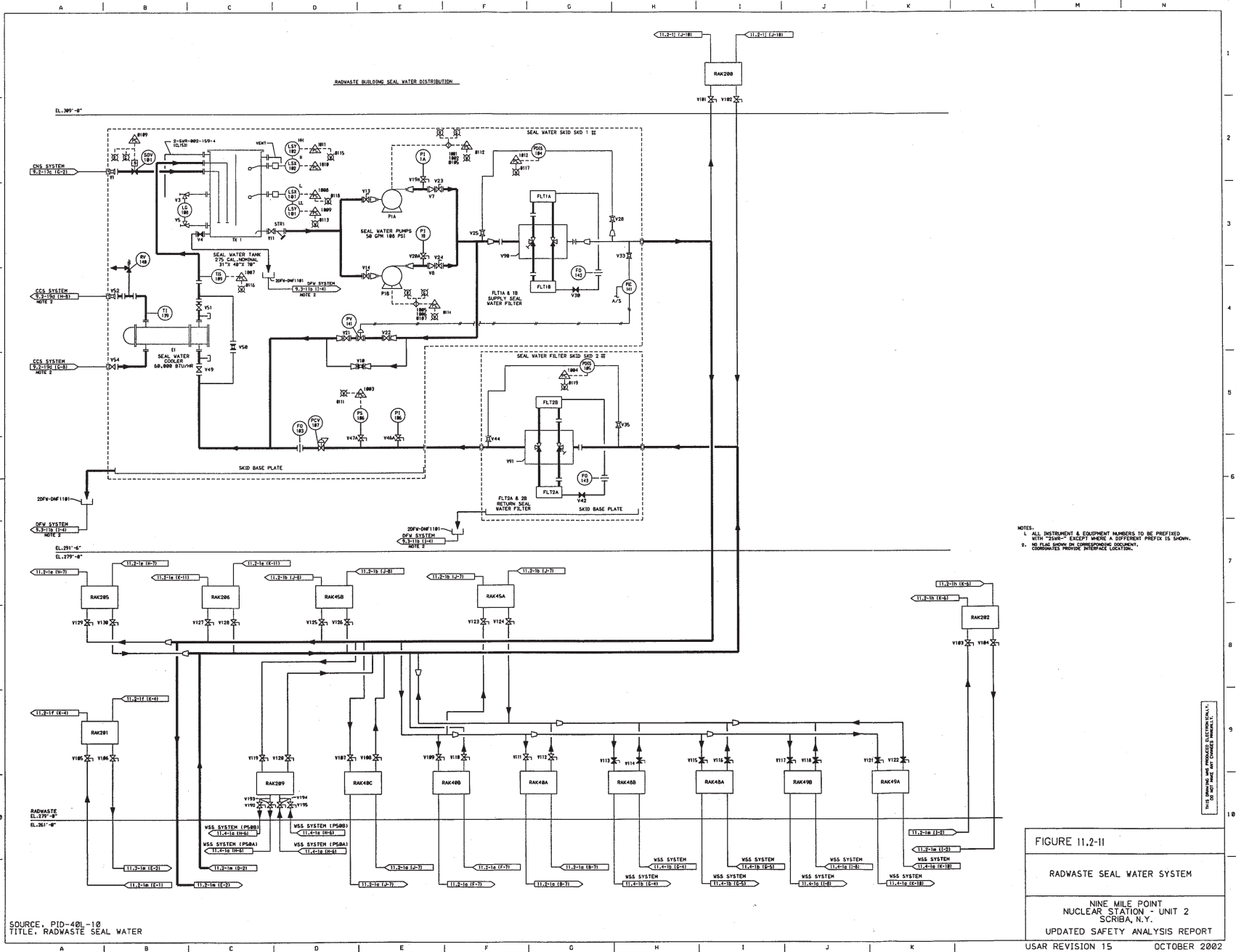


FIGURE 11.2-1h  
 RADIOACTIVE LIQUID WASTE SYSTEM  
 NINE MILE POINT - UNIT 2  
 SCRIBA, N.Y.  
 UPDATED SAFETY ANALYSIS REPORT  
 USAR REVISION 20      OCTOBER 2012

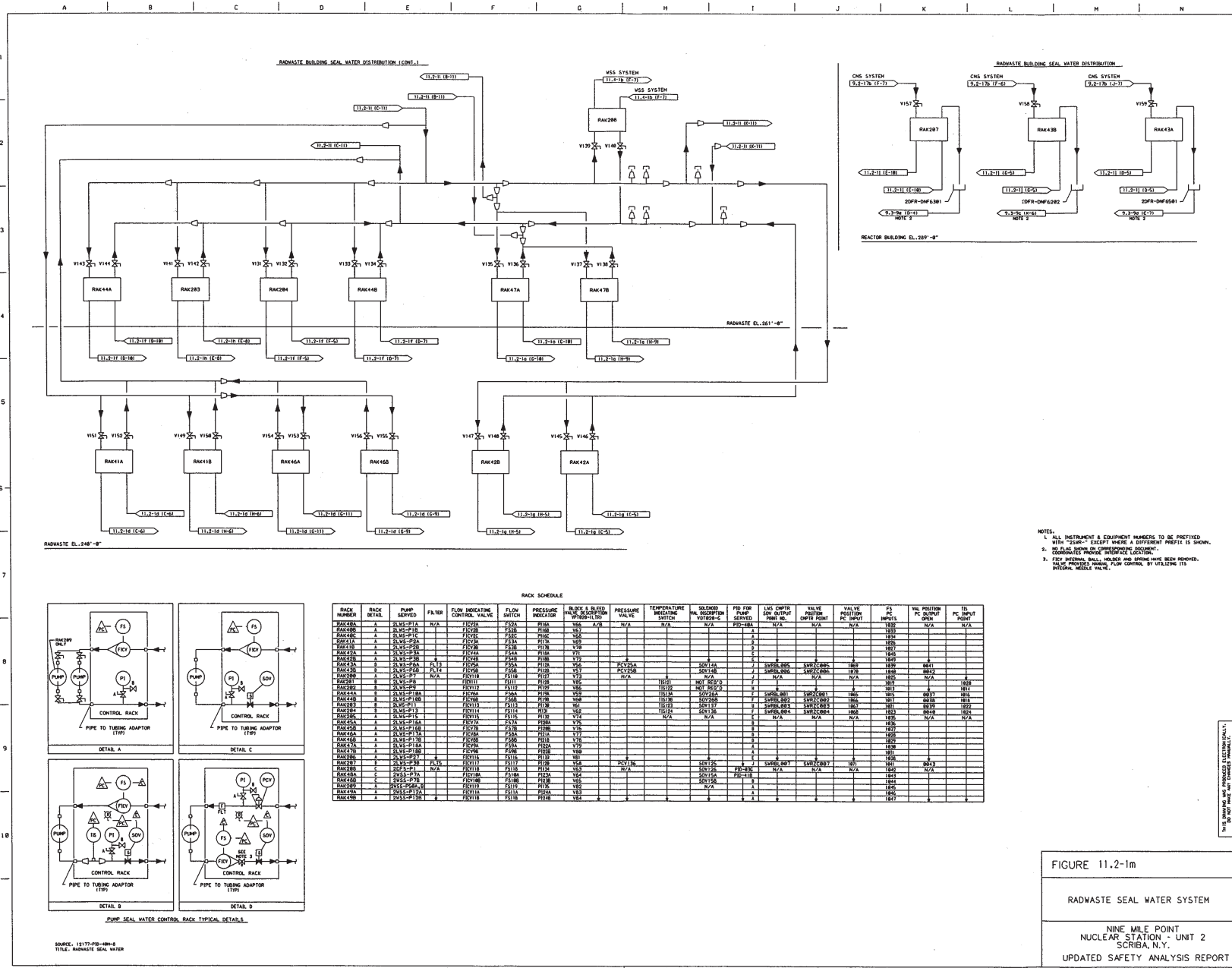






NOTES:  
 1. ALL INSTRUMENT & EQUIPMENT NUMBERS TO BE PREFIXED WITH "2540-" EXCEPT WHERE A DIFFERENT PREFIX IS SHOWN.  
 2. ALL FILLS SHOWN ON CONSTRUCTION DOCUMENTS TO INDICATE THEIR INTERFACE LOCATION.

FIGURE 11.2-11  
 RADWASTE SEAL WATER SYSTEM  
 NINE MILE POINT  
 NUCLEAR STATION - UNIT 2  
 SCRIBA, N.Y.  
 UPDATED SAFETY ANALYSIS REPORT  
 USAR REVISION 15 OCTOBER 2002



- NOTES:
1. ALL INSTRUMENT & EQUIPMENT NUMBERS TO BE PREFIXED WITH "SWS" EXCEPT WHERE A DIFFERENT PREFIX IS SHOWN.
  2. TO BE PLACED PERMANENTLY ON CORRESPONDING DOCUMENT.
  3. FLOW INDICATING DEVICES AND SPRING DRUMS BEING PROVIDED WITH FLOW CONTROL BY UTILIZING ITS INTRINSIC VENTURE.

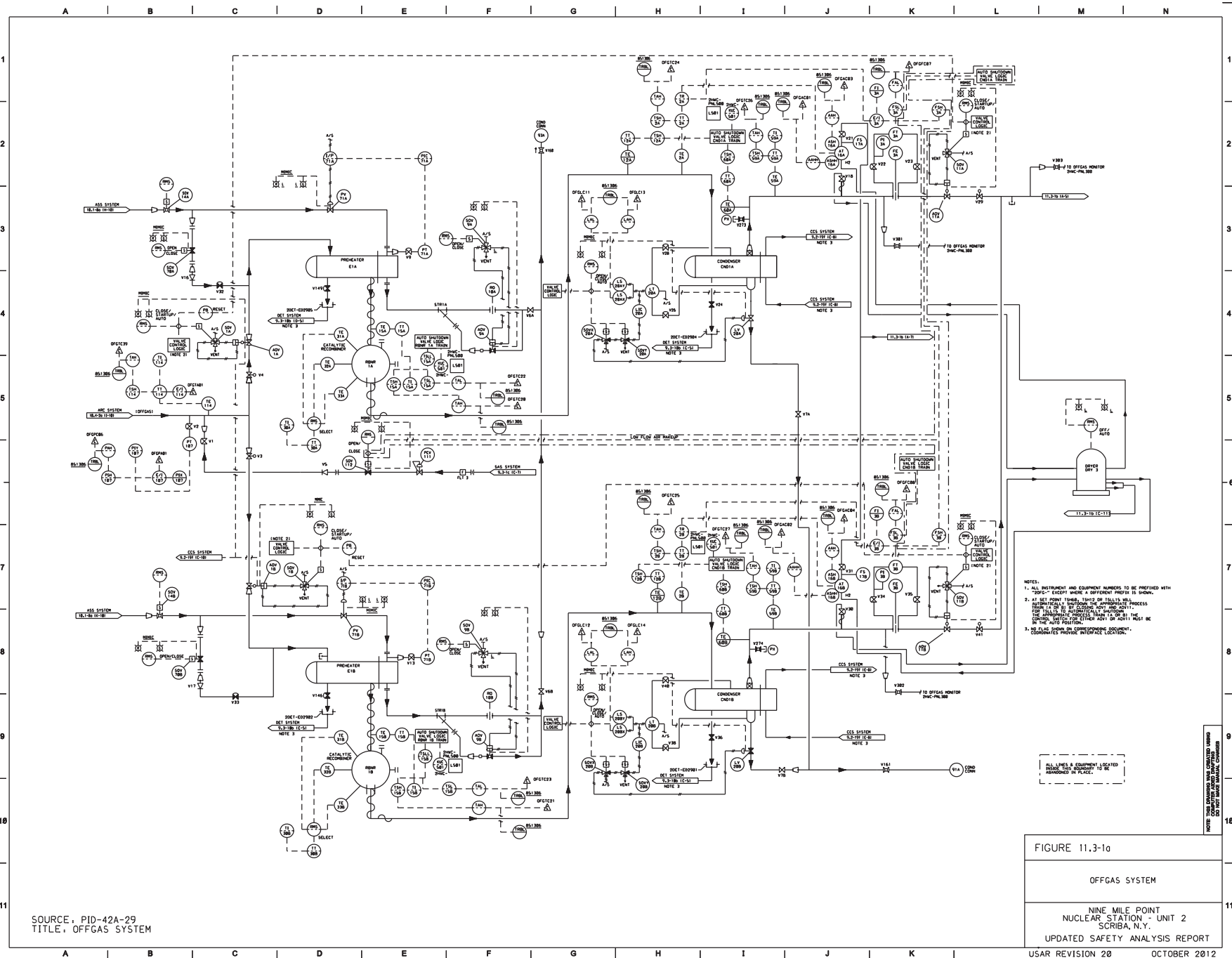
RACK SCHEDULE

RACK NUMBER	RACK DETAIL	PUMP SERVICE	FILTER	FLOW INDICATING CONTROL VALVE	FLOW SWITCH	PRESSURE INDICATOR	BACK & FORTH VALVE/CONTROL	TEMPERATURE INDICATING DEVICE	SHUTDOWN VALVE/RECEPTION	PID TYP PUMP SERVICE	LINE OUTPUT PUMP SERVICE	VALVE POSITIONING OFF/ON	VALVE POSITIONING ON/OFF	PD PC INPUT	VAL POSITION PC INPUT	TO PC INPUT POINT
RAK44A	A	SLWS-PTA	N/A	FIC5A	FS5A	PI5A	V56 A/B	N/A	N/A	A	N/A	N/A	N/A	1832	N/A	N/A
RAK44B	A	SLWS-PTB	N/A	FIC5B	FS5B	PI5B	N/A	N/A	N/A	A	N/A	N/A	N/A	1833	N/A	N/A
RAK44C	A	SLWS-PTC	N/A	FIC5C	FS5C	PI5C	N/A	N/A	N/A	A	N/A	N/A	N/A	1834	N/A	N/A
RAK44D	A	SLWS-PTD	N/A	FIC5D	FS5D	PI5D	N/A	N/A	N/A	A	N/A	N/A	N/A	1835	N/A	N/A
RAK44E	A	SLWS-PTA	N/A	FIC5A	FS5A	PI5A	N/A	N/A	N/A	A	N/A	N/A	N/A	1836	N/A	N/A
RAK44F	A	SLWS-PTB	N/A	FIC5B	FS5B	PI5B	N/A	N/A	N/A	A	N/A	N/A	N/A	1837	N/A	N/A
RAK44G	A	SLWS-PTC	N/A	FIC5C	FS5C	PI5C	N/A	N/A	N/A	A	N/A	N/A	N/A	1838	N/A	N/A
RAK44H	A	SLWS-PTD	N/A	FIC5D	FS5D	PI5D	N/A	N/A	N/A	A	N/A	N/A	N/A	1839	N/A	N/A
RAK44I	A	SLWS-PTA	N/A	FIC5A	FS5A	PI5A	N/A	N/A	N/A	A	N/A	N/A	N/A	1840	N/A	N/A
RAK44J	A	SLWS-PTB	N/A	FIC5B	FS5B	PI5B	N/A	N/A	N/A	A	N/A	N/A	N/A	1841	N/A	N/A
RAK44K	A	SLWS-PTC	N/A	FIC5C	FS5C	PI5C	N/A	N/A	N/A	A	N/A	N/A	N/A	1842	N/A	N/A
RAK44L	A	SLWS-PTD	N/A	FIC5D	FS5D	PI5D	N/A	N/A	N/A	A	N/A	N/A	N/A	1843	N/A	N/A
RAK44M	A	SLWS-PTA	N/A	FIC5A	FS5A	PI5A	N/A	N/A	N/A	A	N/A	N/A	N/A	1844	N/A	N/A
RAK44N	A	SLWS-PTB	N/A	FIC5B	FS5B	PI5B	N/A	N/A	N/A	A	N/A	N/A	N/A	1845	N/A	N/A
RAK44O	A	SLWS-PTC	N/A	FIC5C	FS5C	PI5C	N/A	N/A	N/A	A	N/A	N/A	N/A	1846	N/A	N/A
RAK44P	A	SLWS-PTD	N/A	FIC5D	FS5D	PI5D	N/A	N/A	N/A	A	N/A	N/A	N/A	1847	N/A	N/A
RAK44Q	A	SLWS-PTA	N/A	FIC5A	FS5A	PI5A	N/A	N/A	N/A	A	N/A	N/A	N/A	1848	N/A	N/A
RAK44R	A	SLWS-PTB	N/A	FIC5B	FS5B	PI5B	N/A	N/A	N/A	A	N/A	N/A	N/A	1849	N/A	N/A
RAK44S	A	SLWS-PTC	N/A	FIC5C	FS5C	PI5C	N/A	N/A	N/A	A	N/A	N/A	N/A	1850	N/A	N/A
RAK44T	A	SLWS-PTD	N/A	FIC5D	FS5D	PI5D	N/A	N/A	N/A	A	N/A	N/A	N/A	1851	N/A	N/A
RAK44U	A	SLWS-PTA	N/A	FIC5A	FS5A	PI5A	N/A	N/A	N/A	A	N/A	N/A	N/A	1852	N/A	N/A
RAK44V	A	SLWS-PTB	N/A	FIC5B	FS5B	PI5B	N/A	N/A	N/A	A	N/A	N/A	N/A	1853	N/A	N/A
RAK44W	A	SLWS-PTC	N/A	FIC5C	FS5C	PI5C	N/A	N/A	N/A	A	N/A	N/A	N/A	1854	N/A	N/A
RAK44X	A	SLWS-PTD	N/A	FIC5D	FS5D	PI5D	N/A	N/A	N/A	A	N/A	N/A	N/A	1855	N/A	N/A
RAK44Y	A	SLWS-PTA	N/A	FIC5A	FS5A	PI5A	N/A	N/A	N/A	A	N/A	N/A	N/A	1856	N/A	N/A
RAK44Z	A	SLWS-PTB	N/A	FIC5B	FS5B	PI5B	N/A	N/A	N/A	A	N/A	N/A	N/A	1857	N/A	N/A
RAK45A	A	SLWS-PTA	N/A	FIC5A	FS5A	PI5A	N/A	N/A	N/A	A	N/A	N/A	N/A	1858	N/A	N/A
RAK45B	A	SLWS-PTB	N/A	FIC5B	FS5B	PI5B	N/A	N/A	N/A	A	N/A	N/A	N/A	1859	N/A	N/A
RAK45C	A	SLWS-PTC	N/A	FIC5C	FS5C	PI5C	N/A	N/A	N/A	A	N/A	N/A	N/A	1860	N/A	N/A
RAK45D	A	SLWS-PTD	N/A	FIC5D	FS5D	PI5D	N/A	N/A	N/A	A	N/A	N/A	N/A	1861	N/A	N/A
RAK45E	A	SLWS-PTA	N/A	FIC5A	FS5A	PI5A	N/A	N/A	N/A	A	N/A	N/A	N/A	1862	N/A	N/A
RAK45F	A	SLWS-PTB	N/A	FIC5B	FS5B	PI5B	N/A	N/A	N/A	A	N/A	N/A	N/A	1863	N/A	N/A
RAK45G	A	SLWS-PTC	N/A	FIC5C	FS5C	PI5C	N/A	N/A	N/A	A	N/A	N/A	N/A	1864	N/A	N/A
RAK45H	A	SLWS-PTD	N/A	FIC5D	FS5D	PI5D	N/A	N/A	N/A	A	N/A	N/A	N/A	1865	N/A	N/A
RAK45I	A	SLWS-PTA	N/A	FIC5A	FS5A	PI5A	N/A	N/A	N/A	A	N/A	N/A	N/A	1866	N/A	N/A
RAK45J	A	SLWS-PTB	N/A	FIC5B	FS5B	PI5B	N/A	N/A	N/A	A	N/A	N/A	N/A	1867	N/A	N/A

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

SOURCE: 12177-PD-100-8  
 TITLE: RADWASTE SEAL WATER

THIS DRAWING WAS APPROVED AS INDICATED BY THE SIGNATURE OF THE DESIGN ENGINEER.



SOURCE: PID-42A-29  
TITLE: OFFGAS SYSTEM

FIGURE 11.3-1a  
OFFGAS SYSTEM  
NINE MILE POINT  
NUCLEAR STATION - UNIT 2  
SCRIBA, N.Y.  
UPDATED SAFETY ANALYSIS REPORT



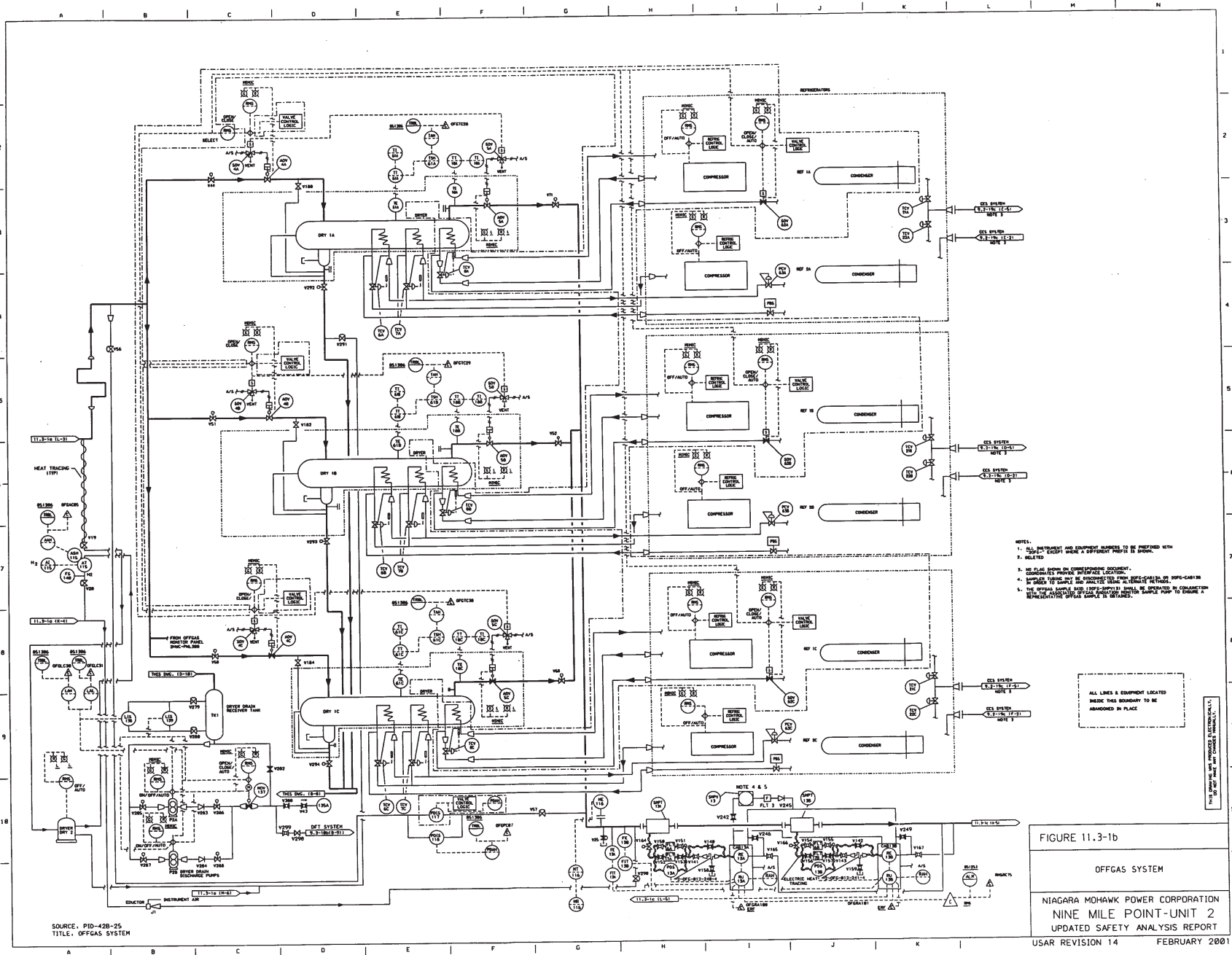
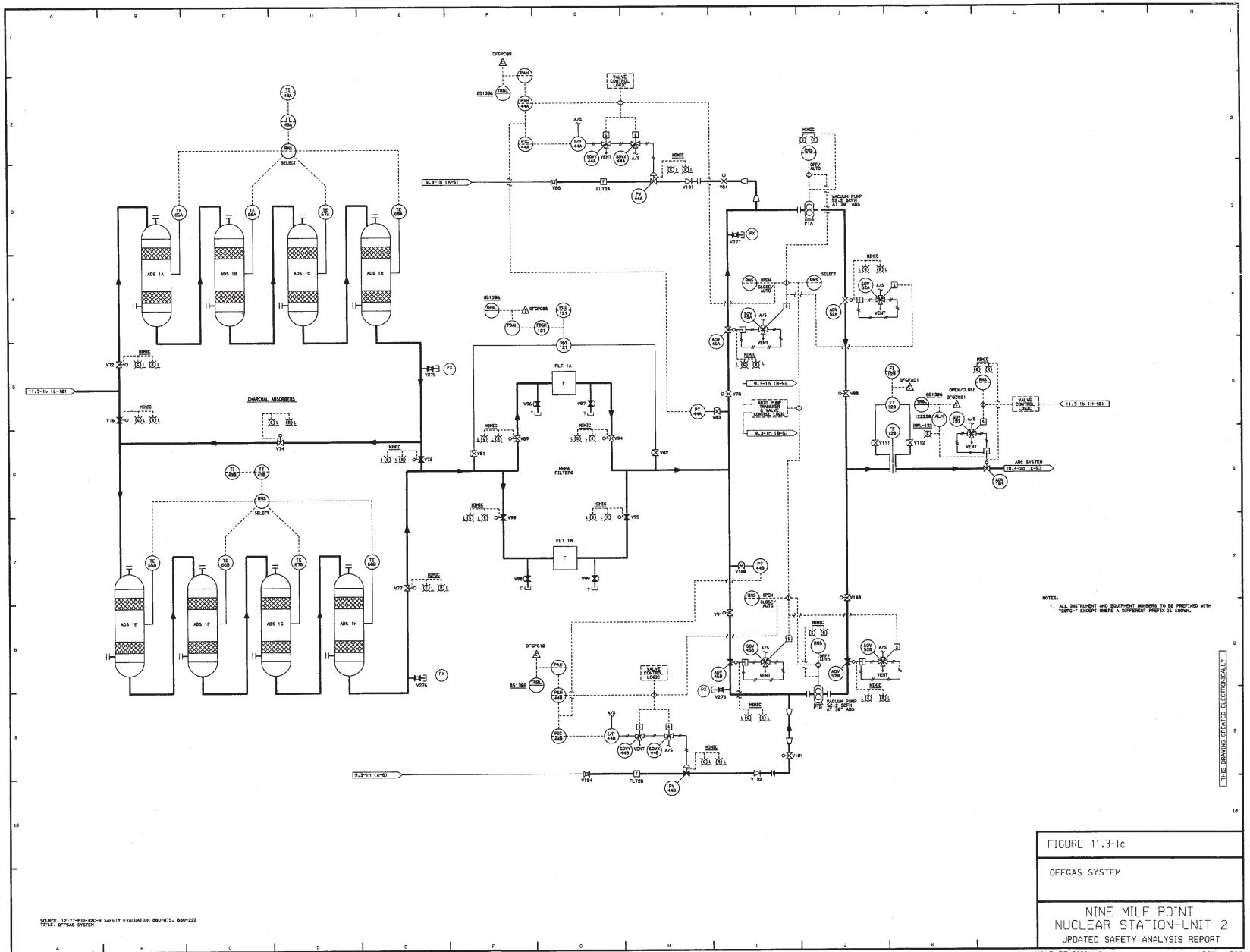


FIGURE 11.3-1b

OFFGAS SYSTEM

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



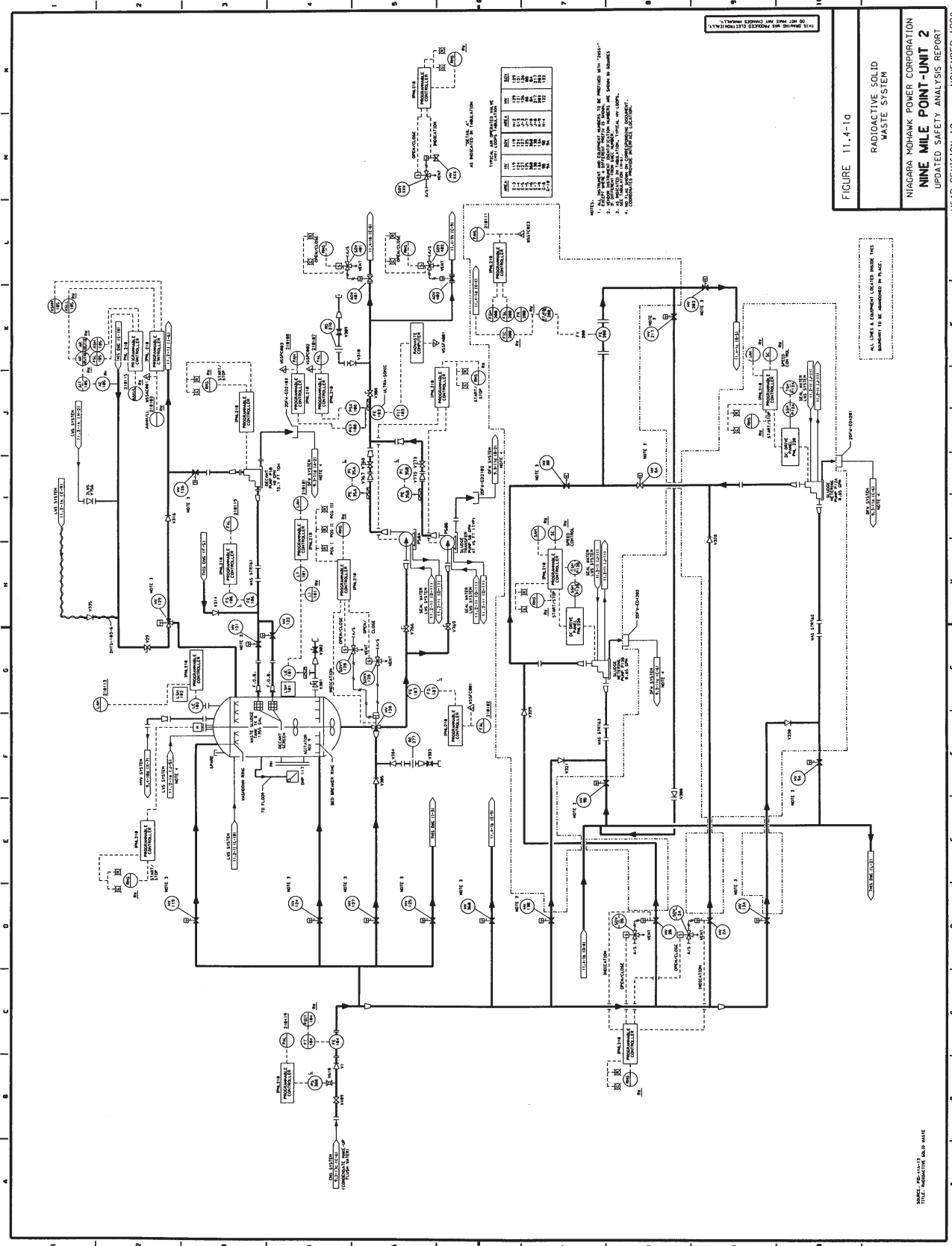


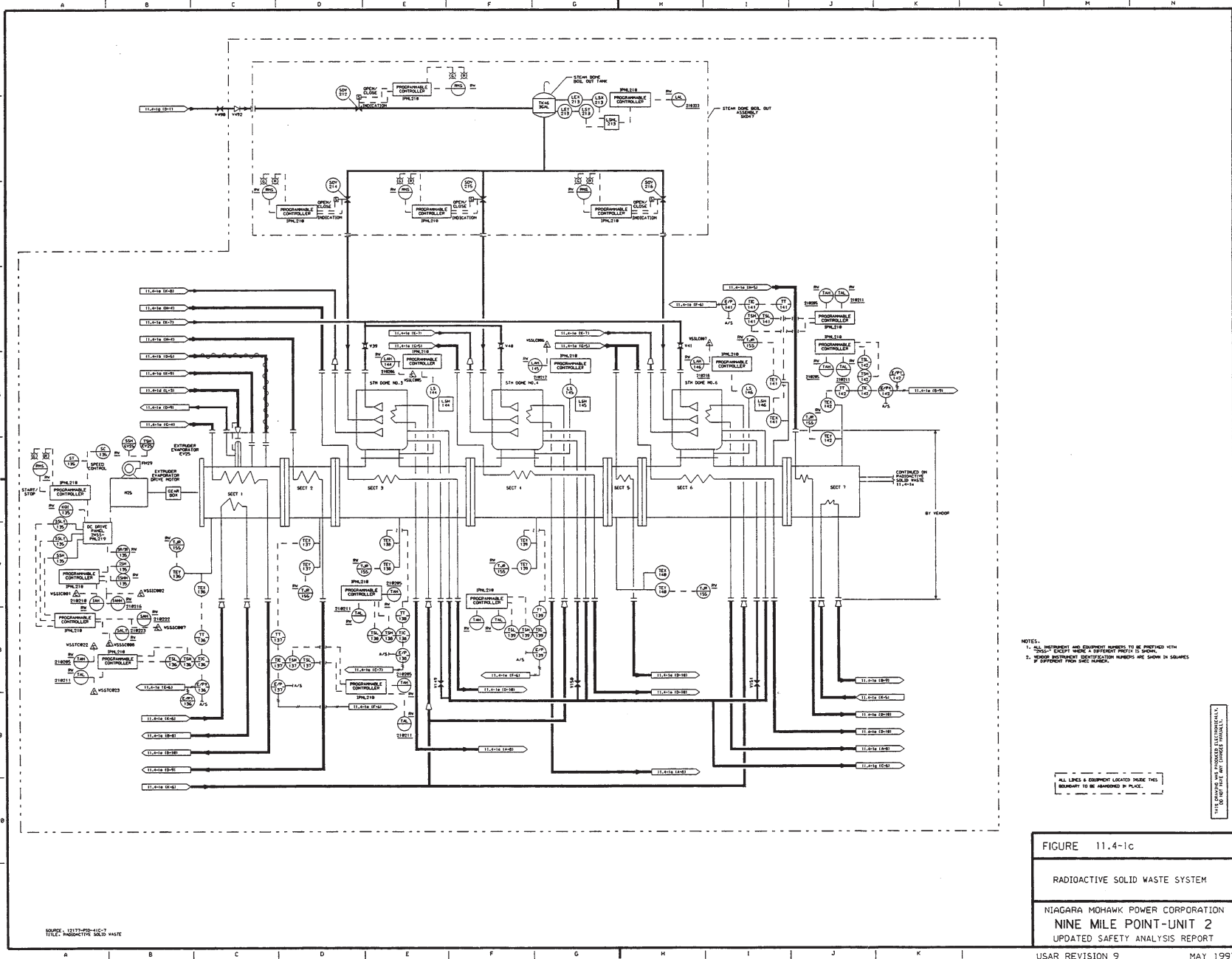
FIGURE 11.4-10

RADIOACTIVE SOLID WASTE SYSTEM  
 NIAGARA MOHAWK POWER CORPORATION  
**NINE MILE POINT-UNIT 2**  
 UPDATED SAFETY ANALYSIS REPORT  
 USAR REVISION 10 NOVEMBER 1998

WASTE 1, WASTE 2, WASTE 3, WASTE 4, WASTE 5, WASTE 6, WASTE 7, WASTE 8, WASTE 9, WASTE 10

ALL LINE & EQUIPMENT LOCATED INSIDE THIS BOUNDARY TO BE ASSIGNED IN PLACE.



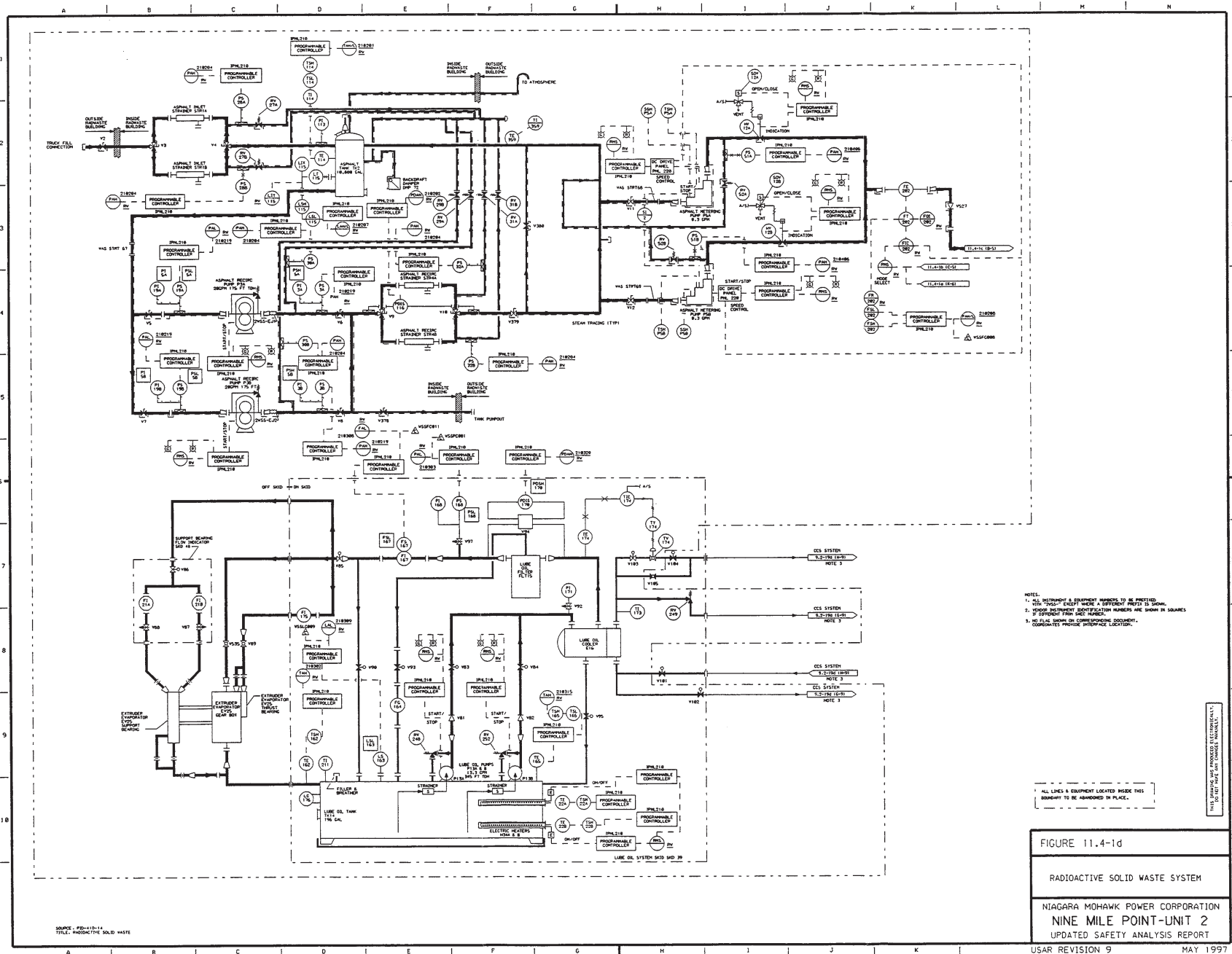


NOTES:  
 1. ALL INSTRUMENTS AND EQUIPMENT NUMBERS TO BE PREFIXED WITH "2200" EXCEPT WHERE IT DIFFERS THERE IT IS SHOWN.  
 2. SPOOR INSTRUMENT IDENTIFICATION NUMBERS ARE SHOWN IN SQUARES DIFFERENT FROM LINE NUMBERS.

ALL LINES & EQUIPMENT LOCATED INSIDE THIS BOUNDARY TO BE HANDLED IN PLACE.

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

FORM NO. 12127-RSD-11C-7  
 TITLE: RADIOACTIVE SOLID WASTE



NOTES:  
 1. ALL INSTRUMENT & EQUIPMENT NUMBERS TO BE PROVIDED WITH THIS REPORT UNLESS A DIFFERENT PREFIX IS SHOWN.  
 2. INSTRUMENT IDENTIFICATION NUMBERS ARE SHOWN IN SQUARES IF DIFFERENT FROM THE NUMBER.  
 3. ALL I.L.C. SHOWN ON CONSTRUCTION DOCUMENT CORRELATES WITH THE INTERSPACE LOCATION.

ALL LINES & EQUIPMENT LOCATED INSIDE THIS BOUNDARY TO BE REMOVED IN PLACE.

THIS DRAWING HAS APPROVED ELECTRONICALLY. SEE THE PAGE FOR COMBINED SIGNATURES.

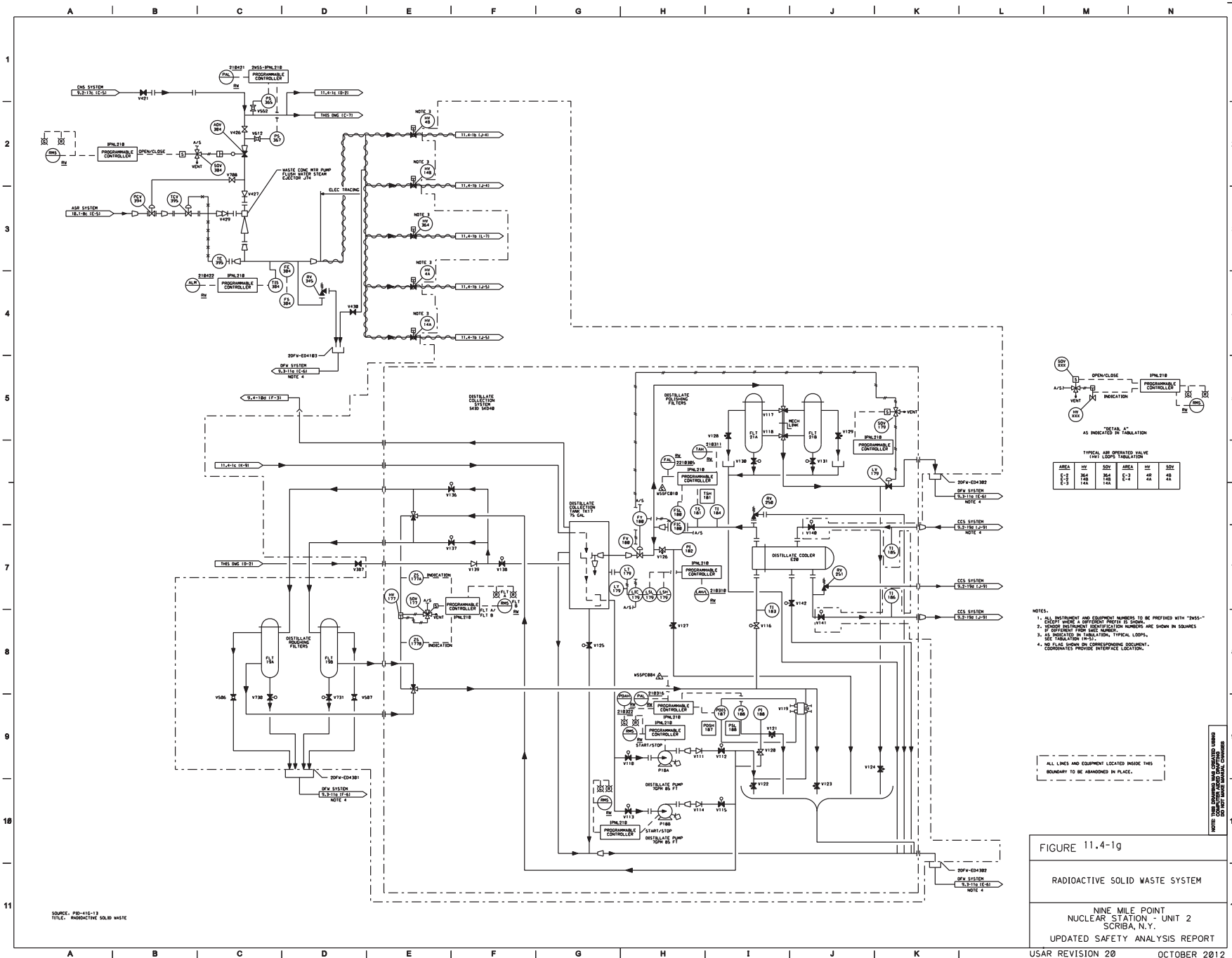
SOURCE: PFD-11.4-1d  
 TITLE: RADIOACTIVE SOLID WASTE

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

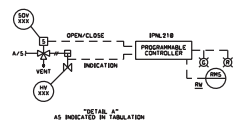








SOURCE: PFD-A15-13  
TITLE: RADIOACTIVE SOLID WASTE



TYPICAL AIR OPERATED VALVE FIRST LOOPS TABULATION

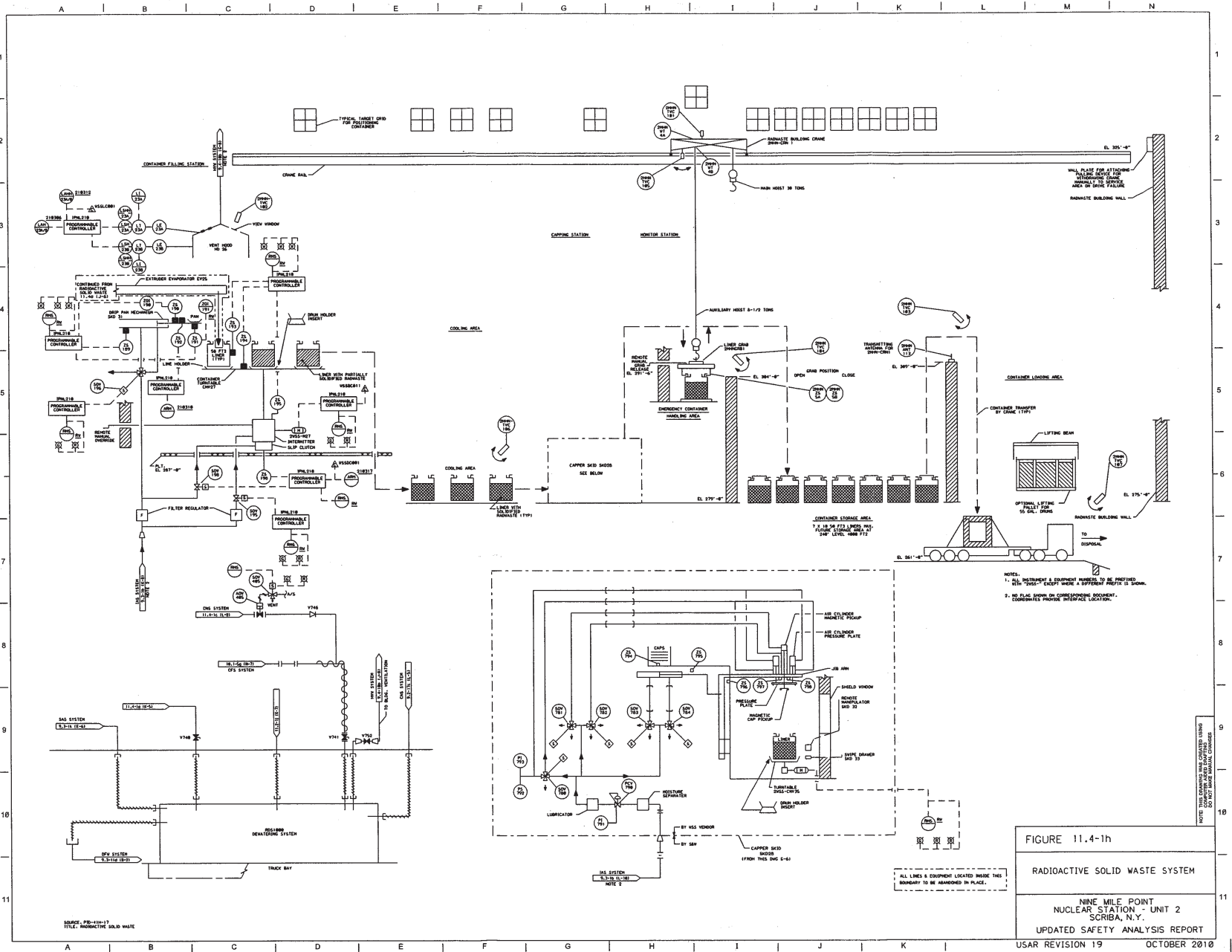
AREA	HW	SDV	AREA	HW	SDV
E-2	266	266	E-2	48	48
E-3	144	144			

- NOTES:
1. ALL INSTRUMENT AND EQUIPMENT NUMBERS TO BE PREFIXED WITH "2855-" EXCEPT WHERE A DIFFERENT PREFIX IS SHOWN.
  2. GROUP IDENTIFIER OR IDENTIFICATION NUMBERS ARE SHOWN IN SQUARES.
  3. AS APPLICABLE FROM SDC NAMES.
  4. AS INDICATED IN TABULATION, TYPICAL LOOPS, AND ISOLATION TAGS.
  5. NO FLAG SHOWN ON CORRESPONDING DOCUMENT.
  6. COORDINATED PROCESS INTERFACE LOCATION.

---  
BOUNDARY TO BE ABANDONED IN PLACE.

NOTES: THIS DRAWING WAS CREATED USING EXCEL 2007 AND MAY BE SUBJECT TO CHANGES

FIGURE 11.4-19  
RADIOACTIVE SOLID WASTE SYSTEM  
NINE MILE POINT  
NUCLEAR STATION - UNIT 2  
SCRIBA, N.Y.  
UPDATED SAFETY ANALYSIS REPORT  
USAR REVISION 20      OCTOBER 2012

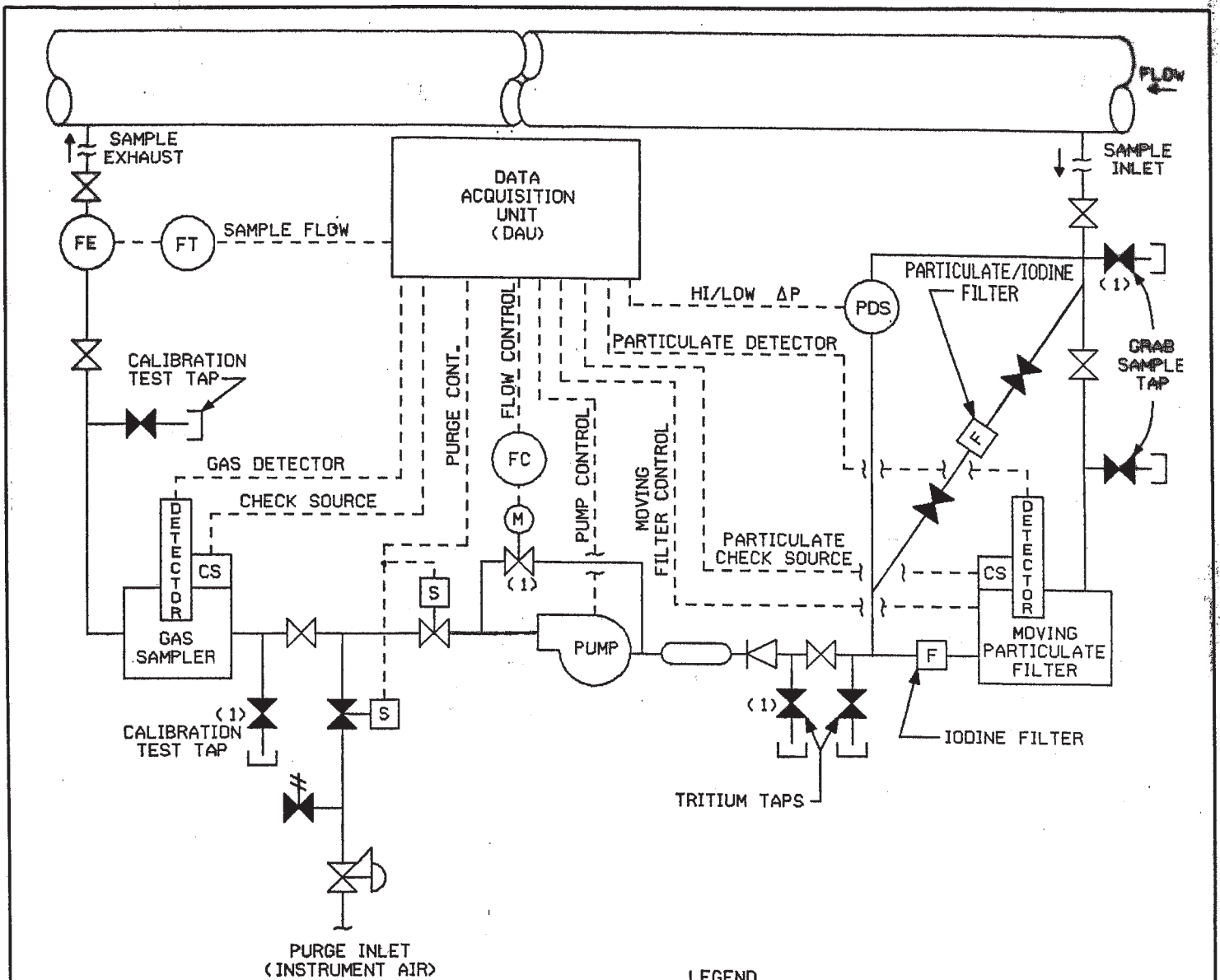


NOTES:  
 1. ALL INSTRUMENT & EQUIPMENT MOUNTED TO BE PROVIDED BY THE USER - EXCEPT WHERE A DIFFERENT INDICATION IS SHOWN.  
 2. NO P&ID SHOWN ON COMPLEMENTARY DOCUMENT. COMPLETELY PROVIDE INTERFACED LOCATION.

ALL LINES & EQUIPMENT LOCATED INSIDE THIS BOUNDARY TO BE REMOVED IN PLACE.

NOTE: THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION OF THE SYSTEM WITHOUT THE NECESSARY APPROVALS AND CHANGES.

SOURCE: PDB-1110-17  
 TITLE: RADIOACTIVE SOLID WASTE



**LEGEND**

- |  |                                  |  |                              |
|--|----------------------------------|--|------------------------------|
|  | TRANSIENT PRESSURE ACCUMULATOR   |  | FT FLOW TRANSMITTER          |
|  | CHECK VALVE                      |  | FC FLOW CONTROLLER           |
|  | SOLENOID OPERATED VALVE          |  | PRESSURE CONTROL VALVE       |
|  | NORMALLY CLOSED VALVE            |  | PRESSURE CONTROL VALVE       |
|  | NORMALLY OPEN VALVE              |  | MOTORIZED FLOW CONTROL VALVE |
|  | PDS PRESSURE DIFFERENTIAL SWITCH |  |                              |
|  | FE MASS FLOW ELEMENT             |  |                              |

**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.

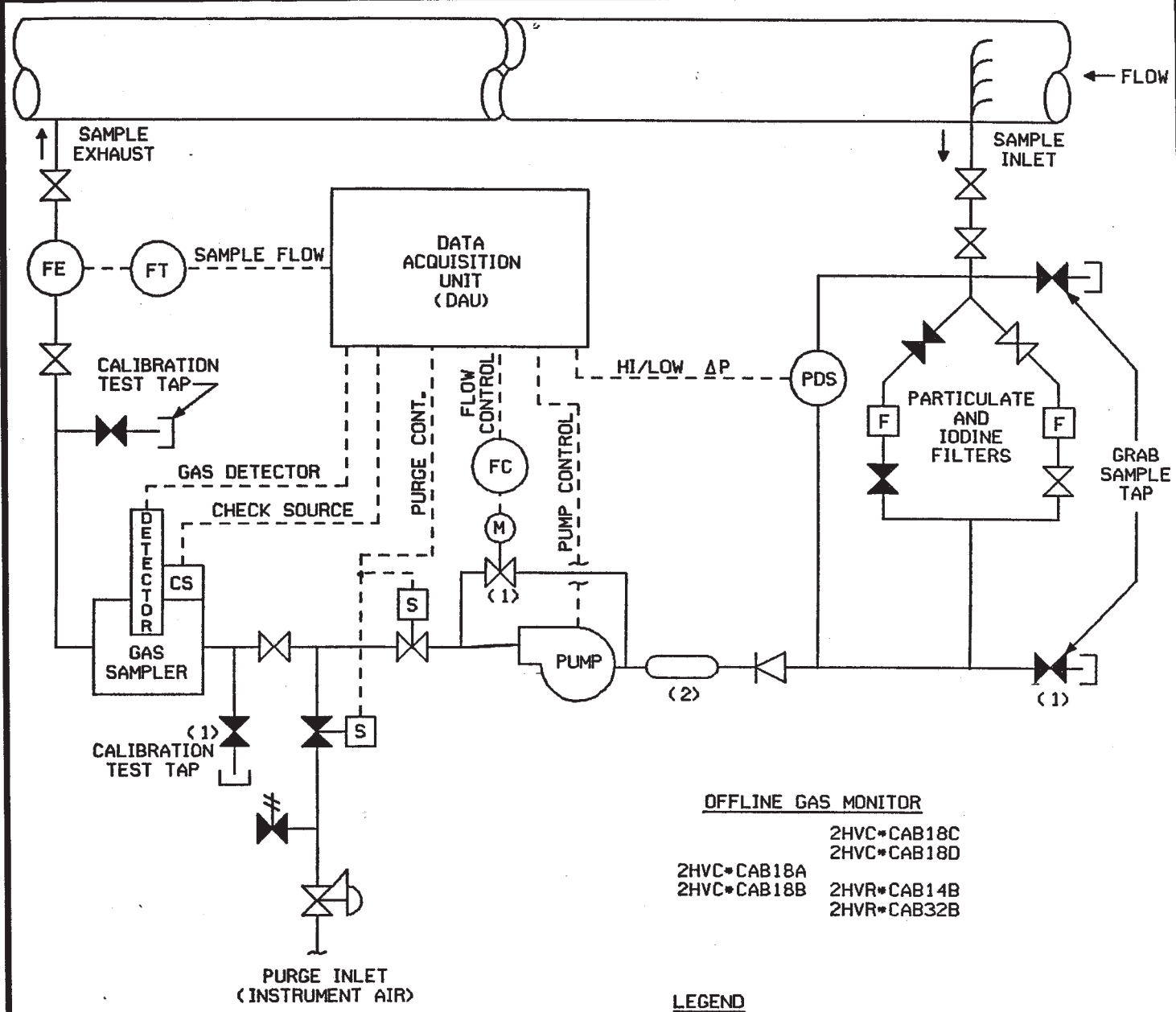
THIS DRAWING CREATED ELECTRONICALLY

FIGURE 11.5-1

**OFF-LINE GAS AND PARTICULATE MONITOR**

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

**UPDATED SAFETY ANALYSIS REPORT**



- OFFLINE GAS MONITOR**
- 2HVC•CAB18C
  - 2HVC•CAB18D
  - 2HVC•CAB18A
  - 2HVC•CAB18B
  - 2HVR•CAB14B
  - 2HVR•CAB32B

**LEGEND**

- TRANSIENT PRESSURE ACCUMULATOR
- CHECK VALVE
- SOLENOID OPERATED VALVE
- NORMALLY CLOSED VALVE
- NORMALLY OPEN VALVE
- PDS PRESSURE DIFFERENTIAL SWITCH
- FE MASS FLOW ELEMENT
- FT FLOW TRANSMITTER
- FC FLOW CONTROLLER
- PRESSURE CONTROL VALVE
- PRESSURE CONTROL VALVE
- MOTORIZED FLOW CONTROL VALVE

**NOTES:**

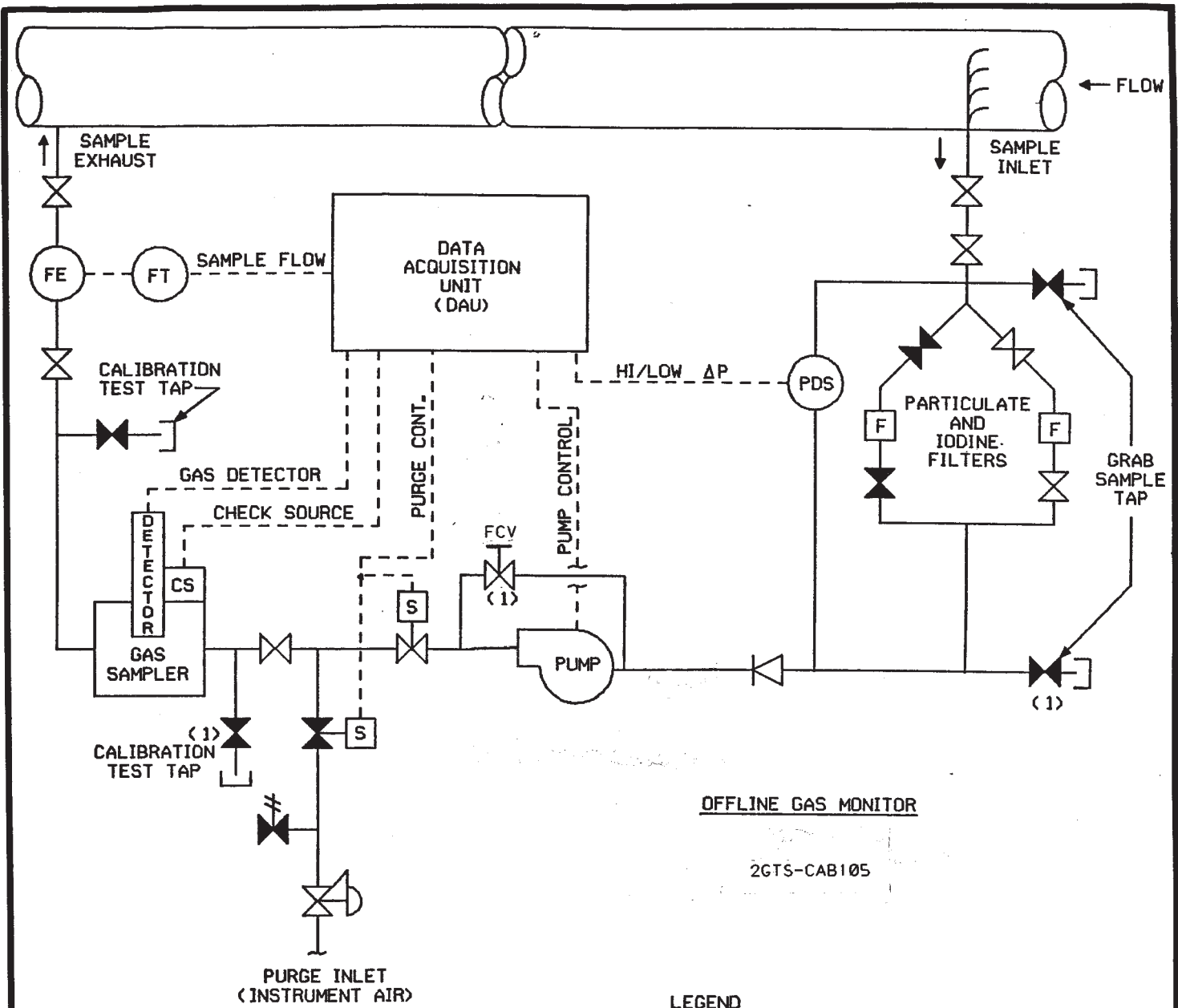
- (1) GLOBE VALVE. ALL OTHER MANUALLY OPERATED VALVES ARE BALL VALVES.
- (2) TRANSIENT PRESSURE ACCUMULATOR ASSOCIATED WITH 2HVR•CAB14B AND 2HVR•CAB32B ONLY.

FIGURE 11.5-2

OFF-LINE GAS MONITOR

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

SOURCE: 0001730801005 - 01













OFFLINE GAS MONITOR  
2GTS-CAB105

**LEGEND**

**NOTES:**

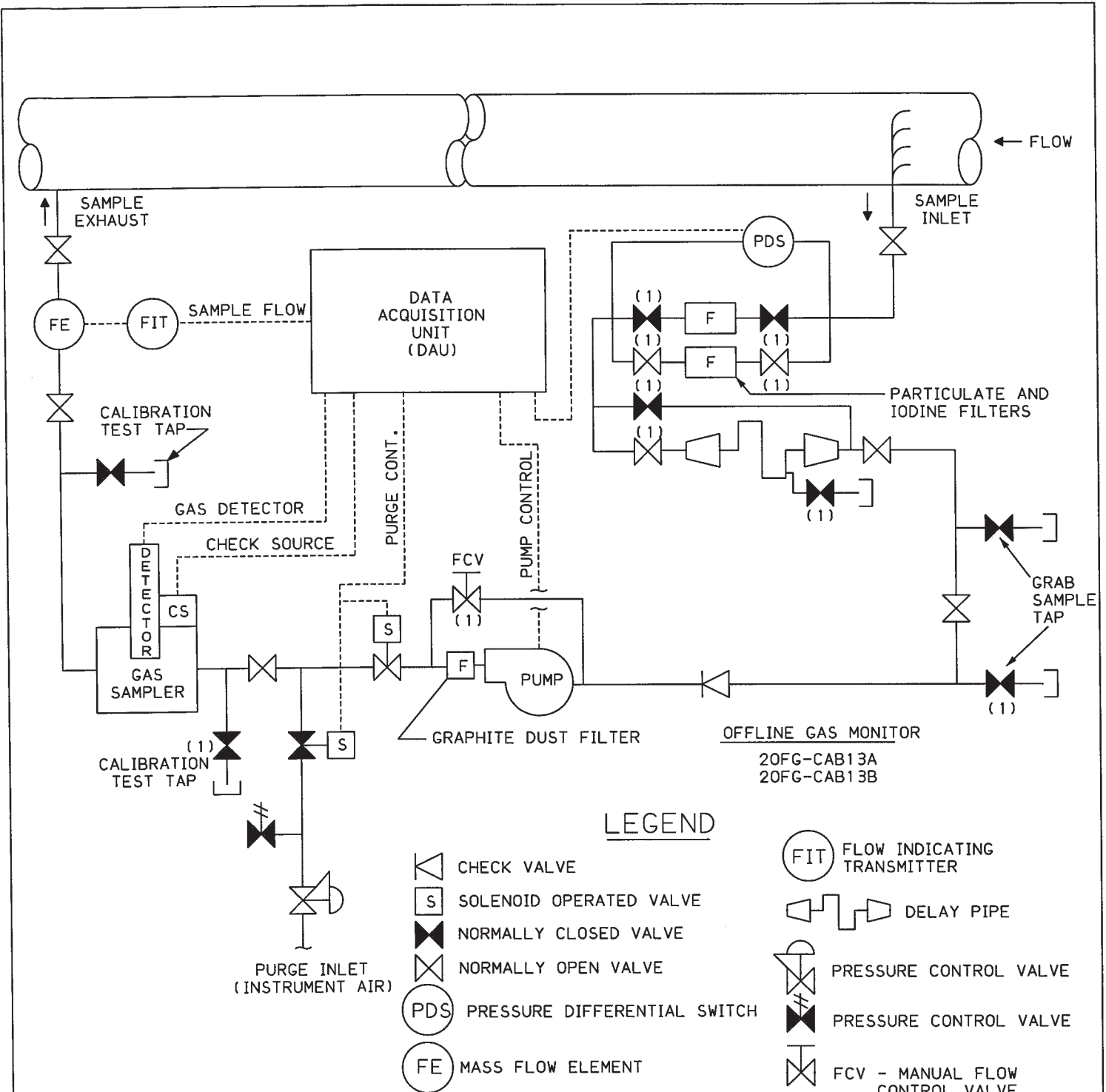
(1) GLOBE VALVE. ALL OTHER MANUALLY OPERATED VALVES ARE BALL VALVES.

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

**FIGURE 11.5-2a**

**OFF-LINE GAS MONITOR**

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



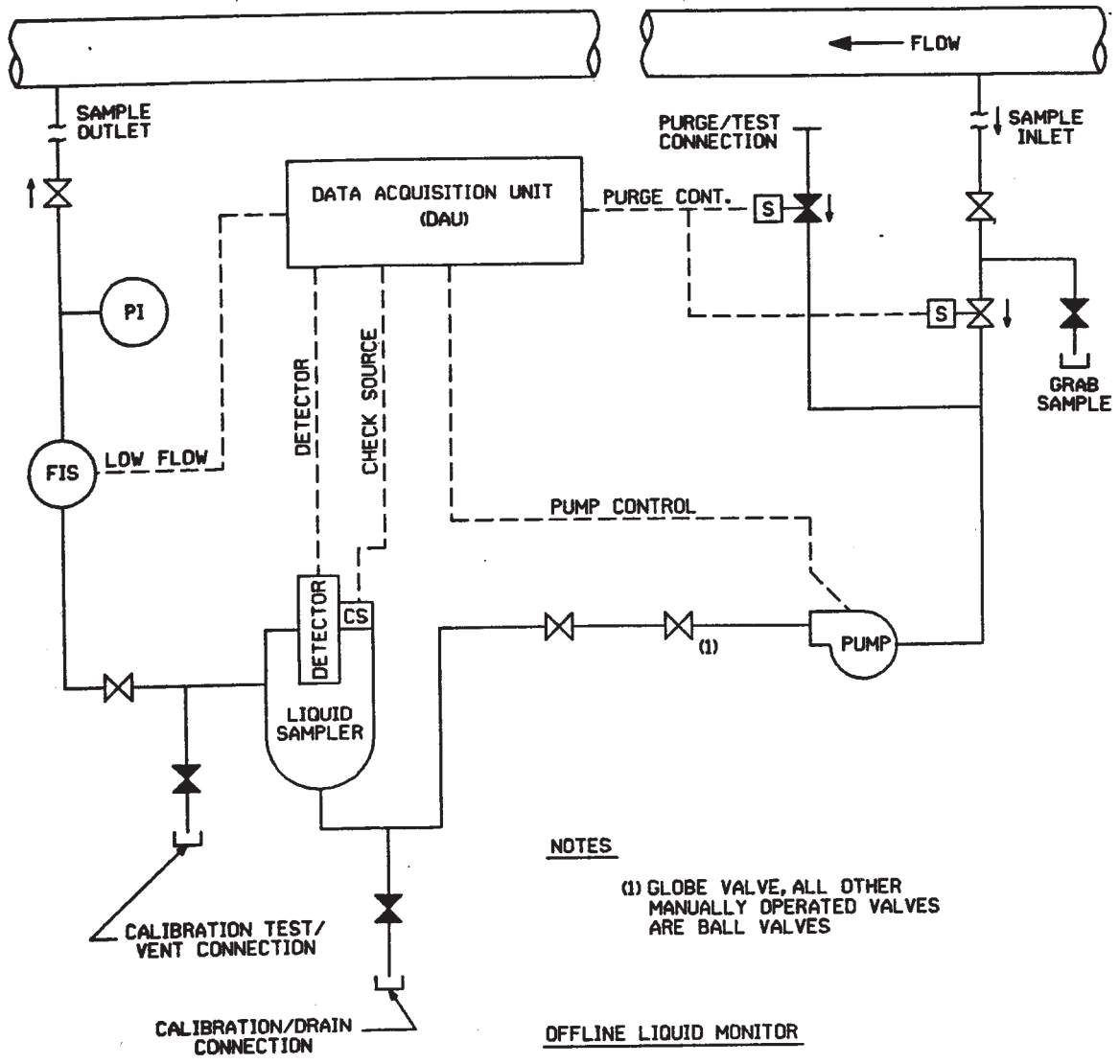
**NOTES:**

(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








NOTES

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

OFFLINE LIQUID MONITOR

2CCP-CAB115  
2CCS-CAB152  
2CWS-CAB157

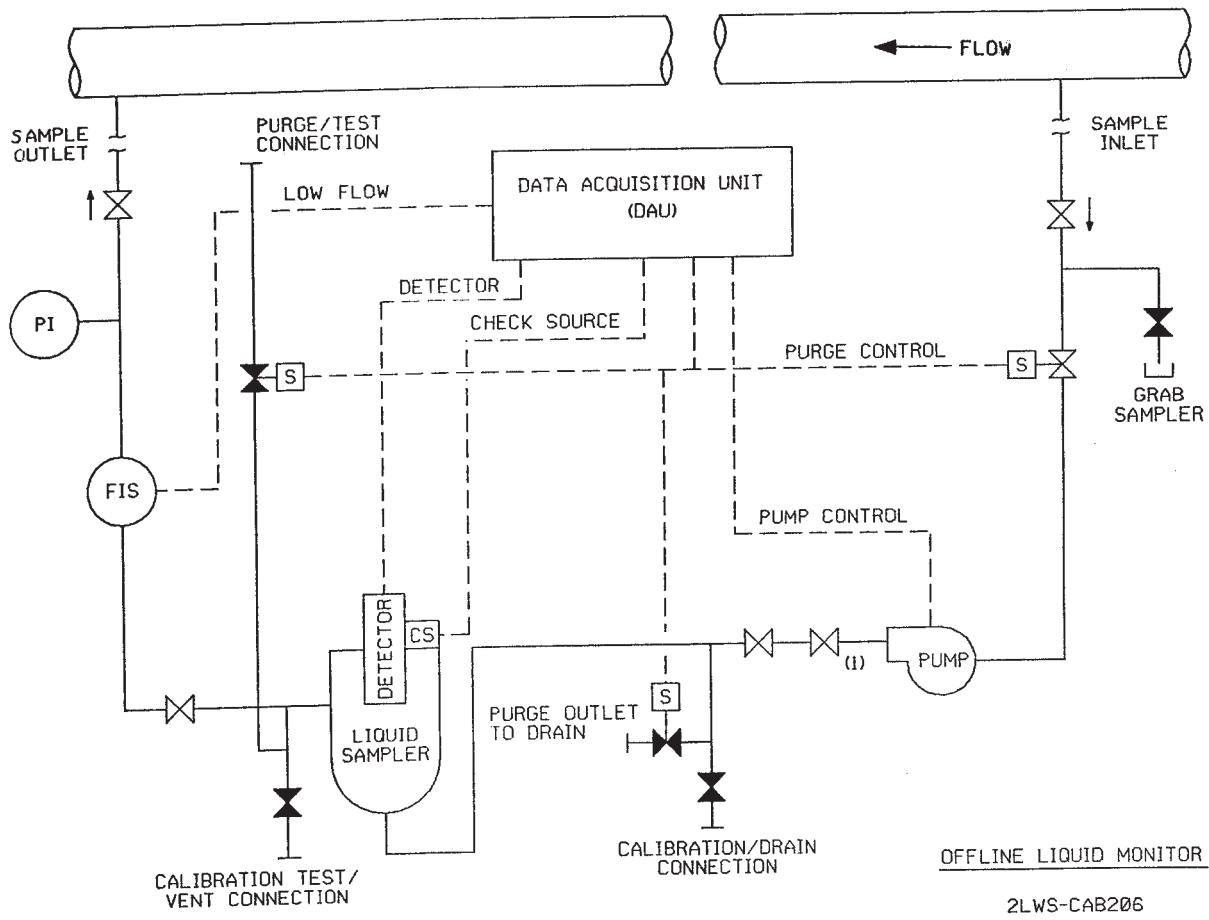
LEGEND

-  PRESSURE INDICATOR
-  FLOW INDICATING SW.
-  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



OFFLINE LIQUID MONITOR  
2LWS-CAB206

LEGEND

-  PRESSURE INDICATOR
-  FLOW INDICATING SW.
-  SOLENOID OPERATED SW.
-  NORMALLY CLOSED VALVE
-  NORMALLY OPEN VALVE

NOTES

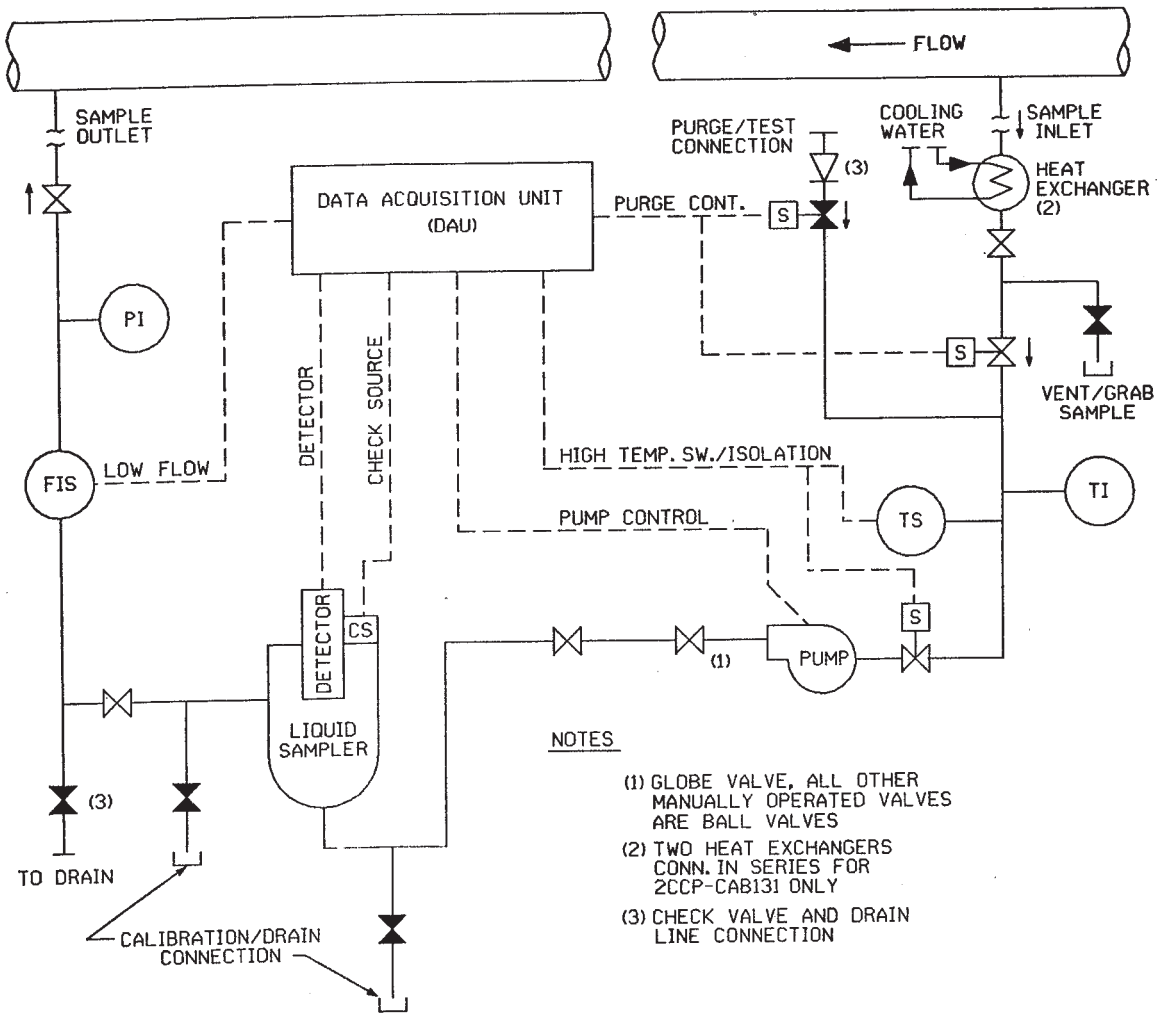
(1) GLOBE VALVE, ALL OTHER MANUALLY OPERATED VALVES ARE BALL VALVES

**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] SOLENOID OPERATED SW.
- ⊗ NORMALLY CLOSED VALVE
- ⊘ NORMALLY OPEN VALVE

OFFLINE LIQUID MONITOR

2CCP-CAB131  
2SFC-CAB142

USAR REVISION 0

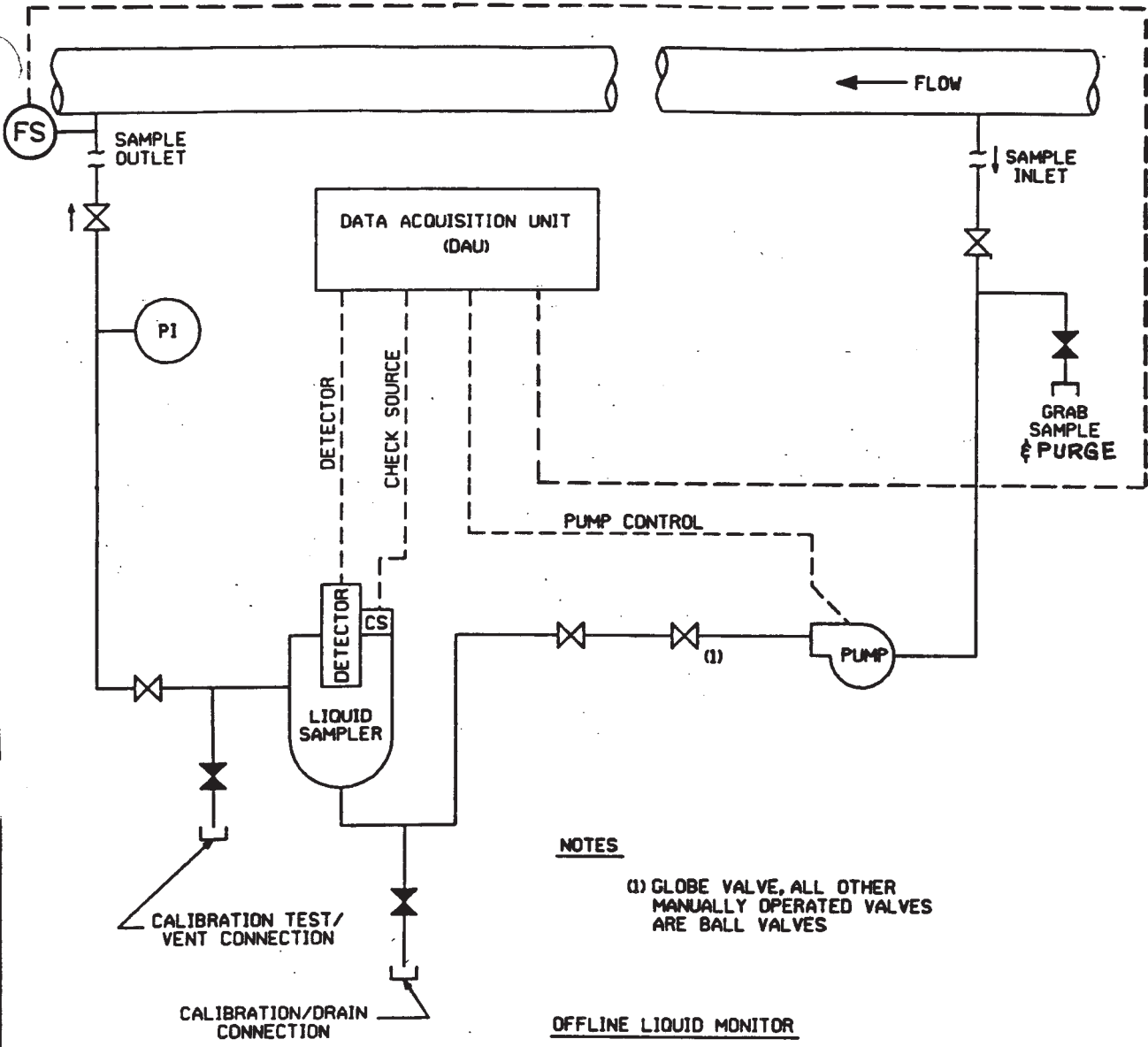
APRIL 1989

FIGURE 11.5-3c

OFF-LINE LIQUID MONITOR

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

LOW FLOW/NORMAL FLOW



NOTES

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

OFFLINE LIQUID MONITOR

2SWP=CAB23A  
 2SWP=CAB23B  
 2SWP=CAB146A  
 2SWP=CAB146B

LEGEND






-  PI PRESSURE INDICATOR
-  FS FLOW SW.
-  SOLENOID OPERATED SW.
-  NORMALLY CLOSED VALVE
-  NORMALLY OPEN VALVE

FIGURE 11.5-3d

OFF-LINE LIQUID MONITOR

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

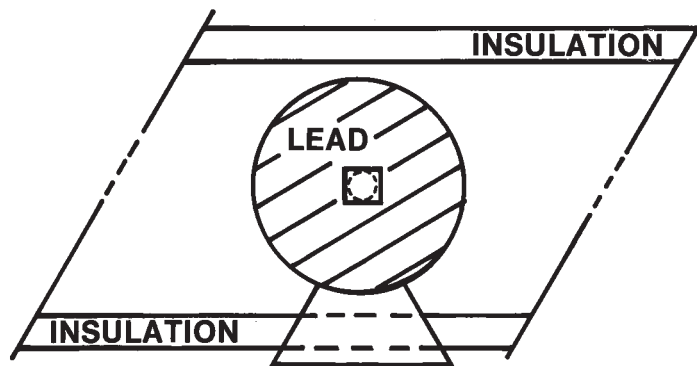
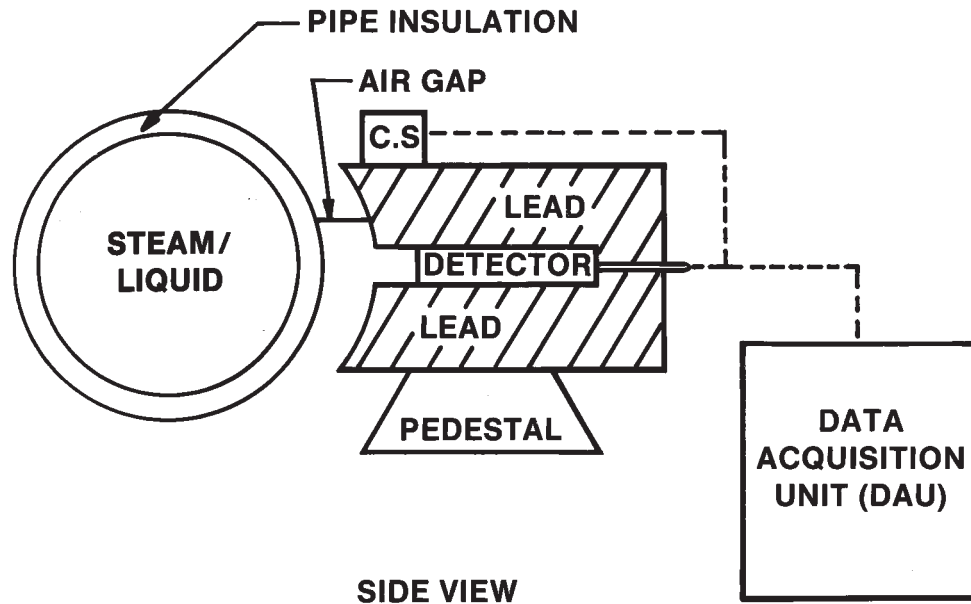


FIGURE 11.5-4

ON-LINE STEAM OR  
LIQUID MONITOR

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

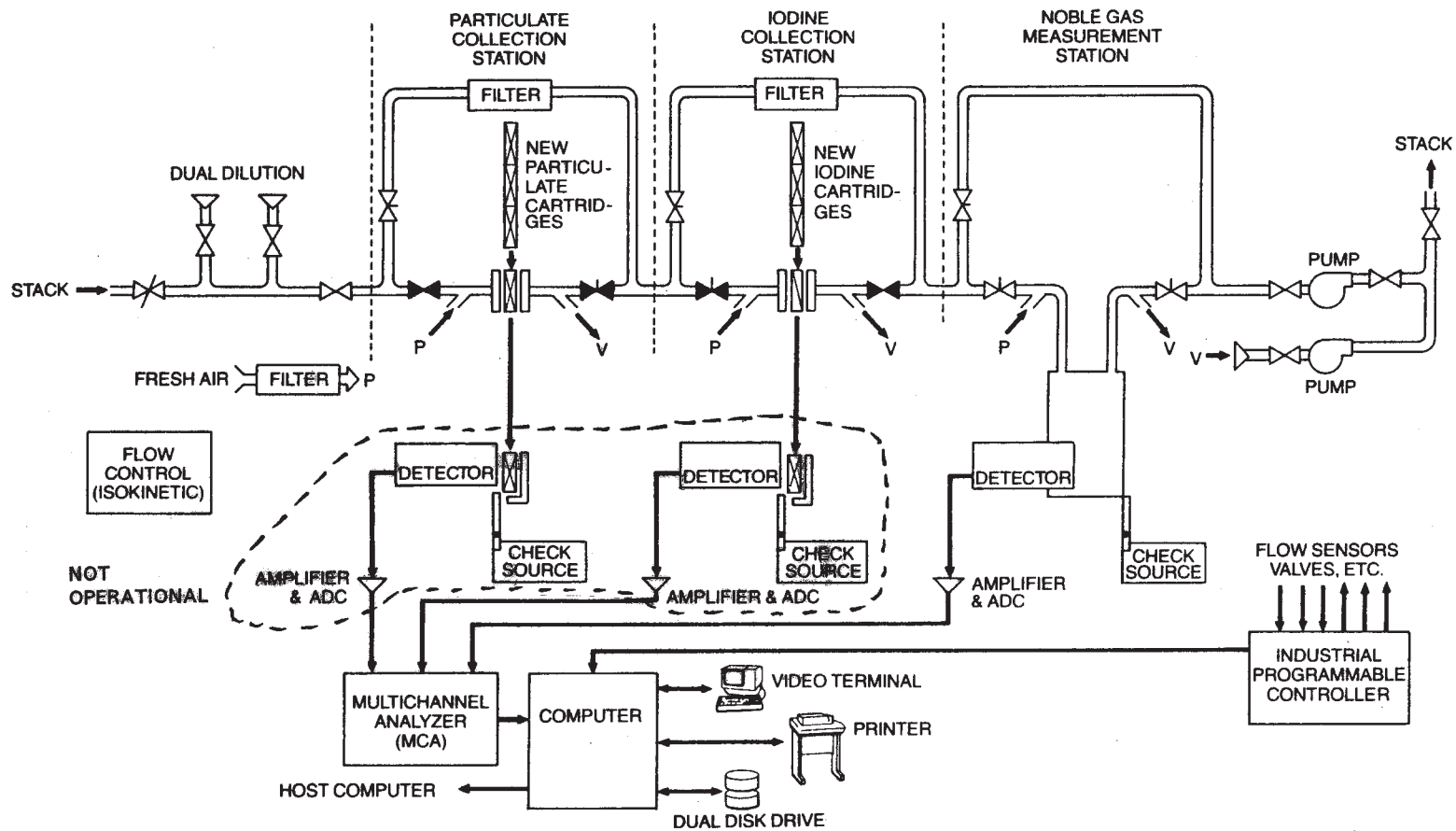
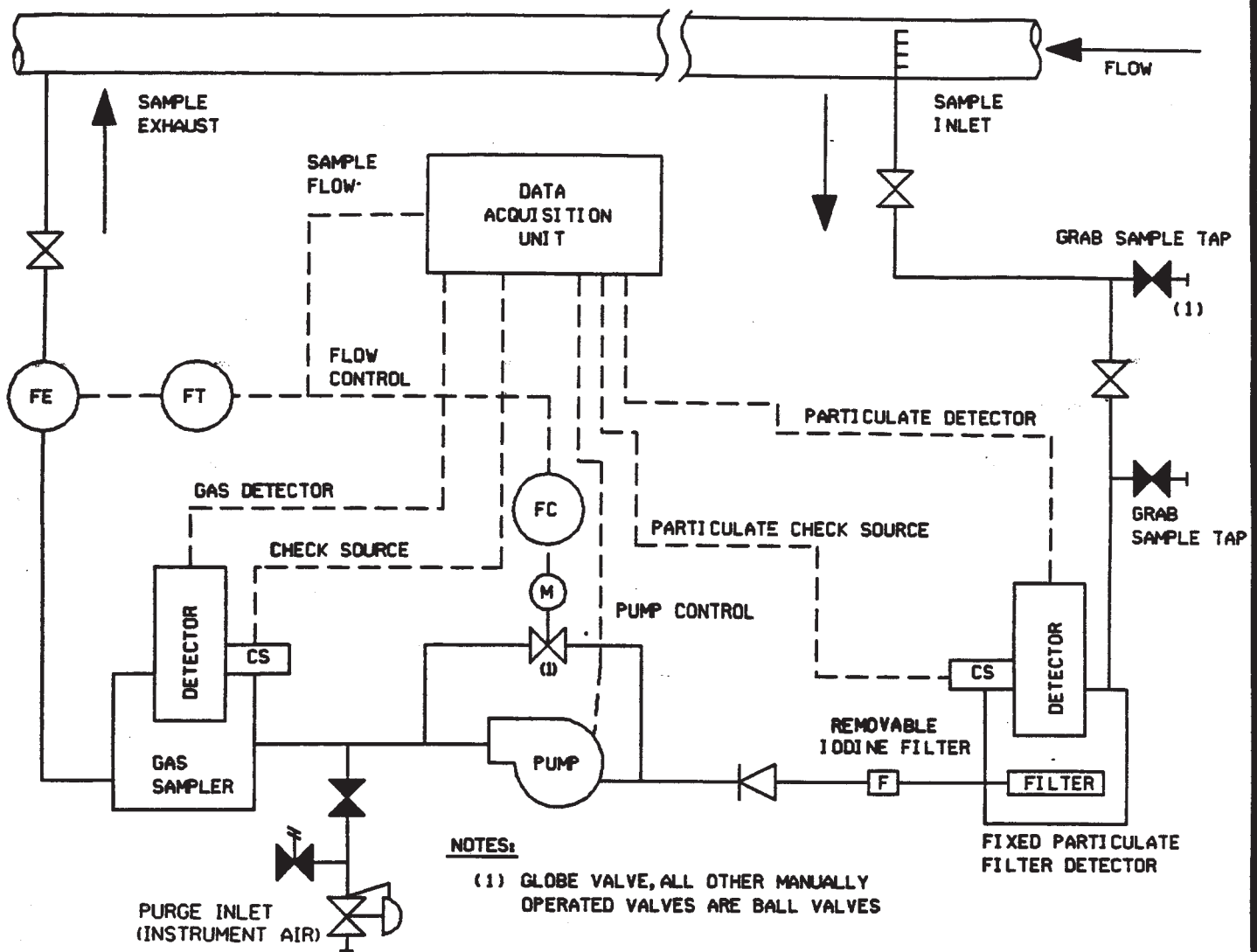


FIGURE 11.5-5

BLOCK DIAGRAM  
TYPICAL GASEOUS EFFLUENT  
MONITORING SYSTEM

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



**NOTES:**

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

**LEGEND**

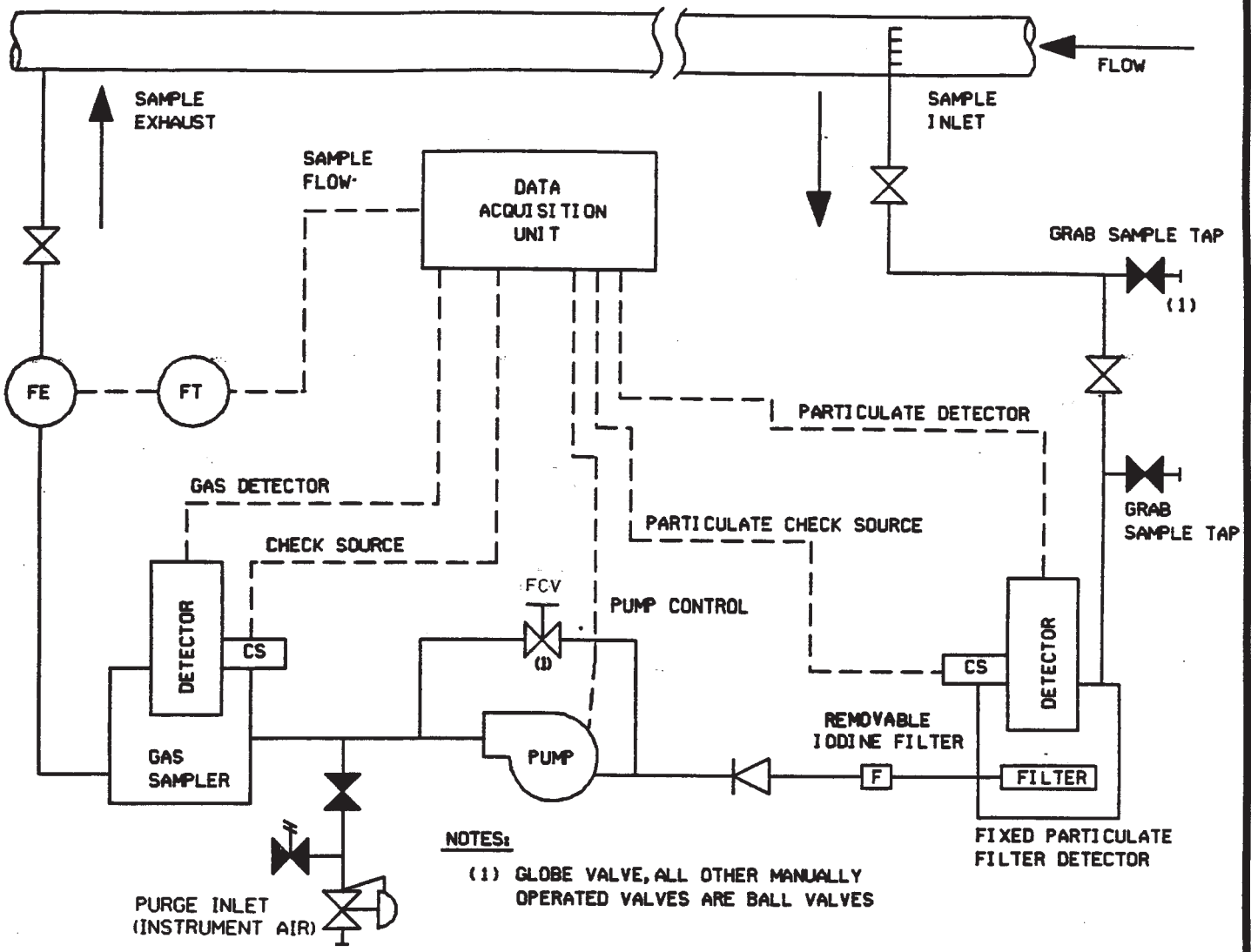
- MOTORIZED FLOW CONTROL VALVE
- CHECK VALVE
- SOLENIOD OPERATED VALVE
- NORMALLY CLOSED VALVE
- NORMALLY OPEN VALVE
- FLOW CONTROLLER
- MASS FLOW ELEMENT
- FLOW TRANSMITTER
- PRESSURE CONTROL VALVE
- PRESSURE CONTROL VALVE

MOBILE OFFLINE GAS PARTICULATE MONITOR	
2HVW-CAB 195	2HVR-CAB 229
	2HVR-CAB 237
2HVW-CAB 197	2HVR-CAB 238
2HVW-CAB 199	2HVT-CAB 206

**FIGURE 11.5-6**

**ACCEPTABLE CONTINUOUS  
AIRBORNE 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

**LEGEND**

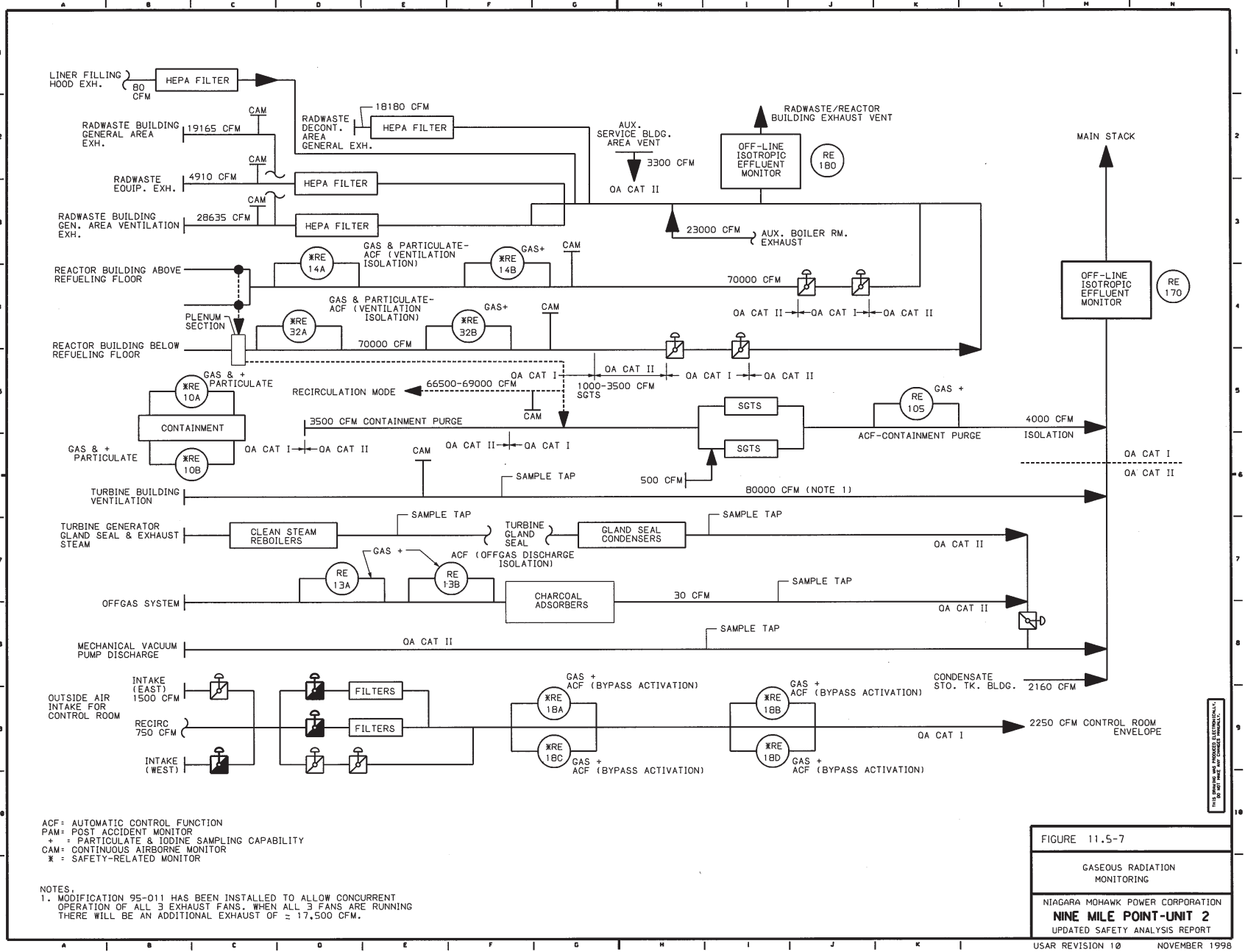
- FCV - MANUAL FLOW CONTROL VALVE
- CHECK VALVE
- SOLENIOD OPERATED VALVE
- NORMALLY CLOSED VALVE
- NORMALLY OPEN VALVE
- FLOW CONTROLLER
- MASS FLOW ELEMENT
- FLOW TRANSMITTER
- PRESSURE CONTROL VALVE
- PRESSURE CONTROL VALVE

**MOBILE OFFLINE GAS PARTICULATE MONITOR**  
 2HVW-CAB196

**FIGURE 11.5-6a**

**ACCEPTABLE CONTINUOUS AIRBORNE MONITOR**

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



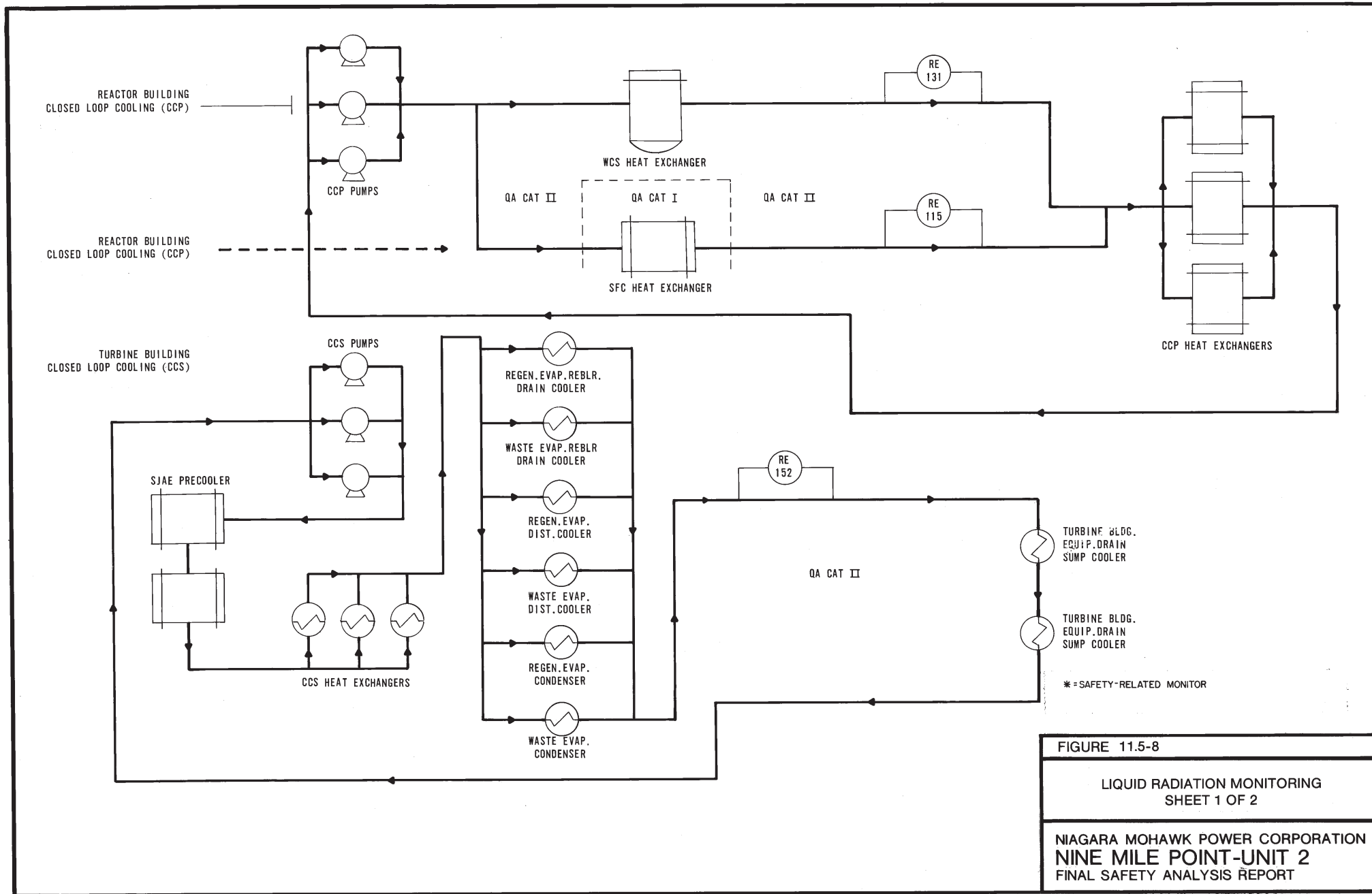


FIGURE 11.5-8

LIQUID RADIATION MONITORING  
SHEET 1 OF 2

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



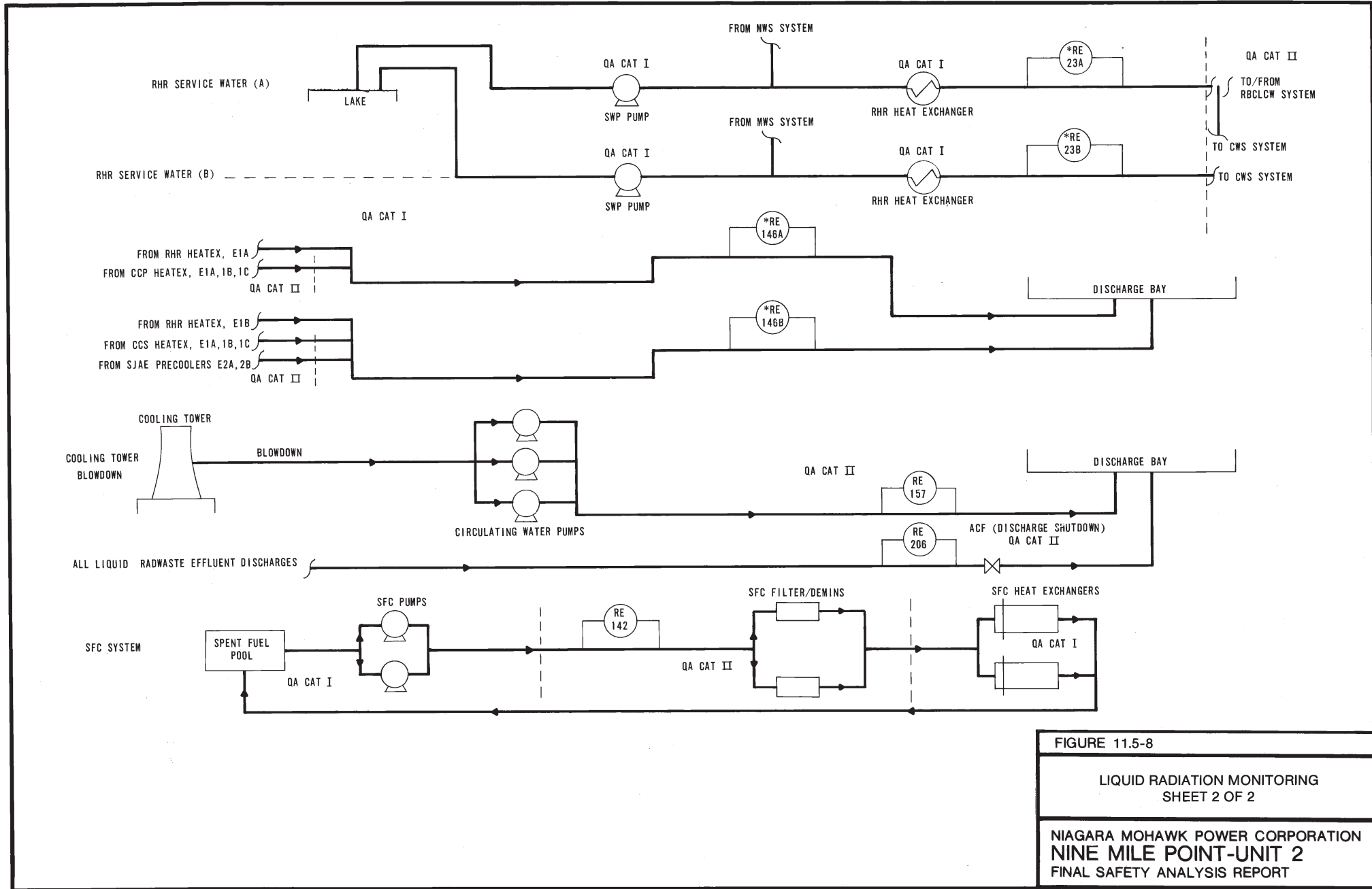


FIGURE 11.5-8  
 LIQUID RADIATION MONITORING  
 SHEET 2 OF 2  
 NIAGARA MOHAWK POWER CORPORATION  
 NINE MILE POINT-UNIT 2  
 FINAL SAFETY ANALYSIS REPORT