

# SECURITY RELATED INFORMATION

## FIGURE WITHHELD UNDER 10 CFR 2.390

|   |
|---|
| BROWNS FERRY NUCLEAR PLANT<br>FINAL SAFETY<br>ANALYSIS REPORT |
| PRIMARY CONTAINMENT VESSELS<br>FIGURE 5.2-1a                  |

AMENDMENT 16

**BFN-16**

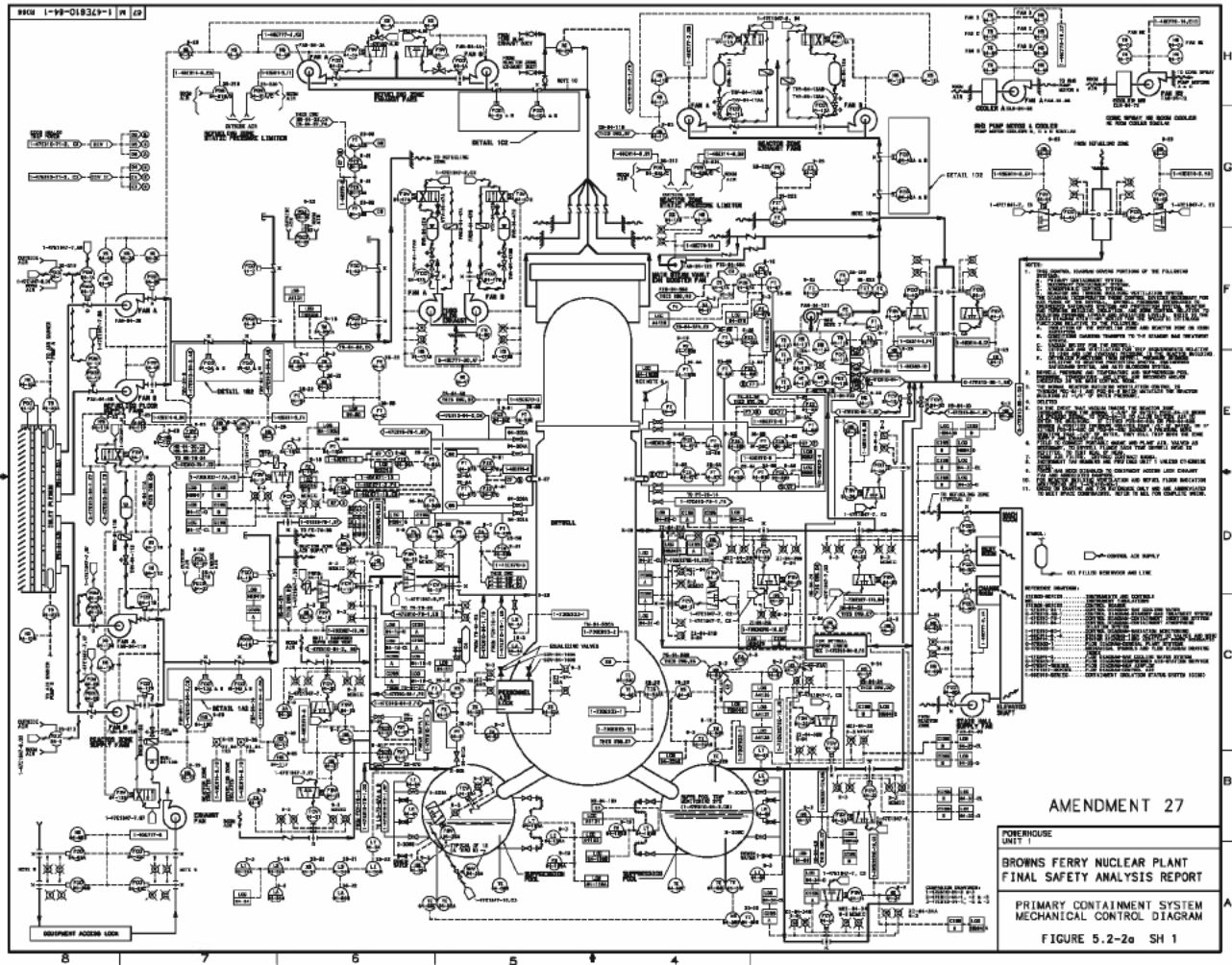
**Figures 5.2-1b through 5.2-1c**

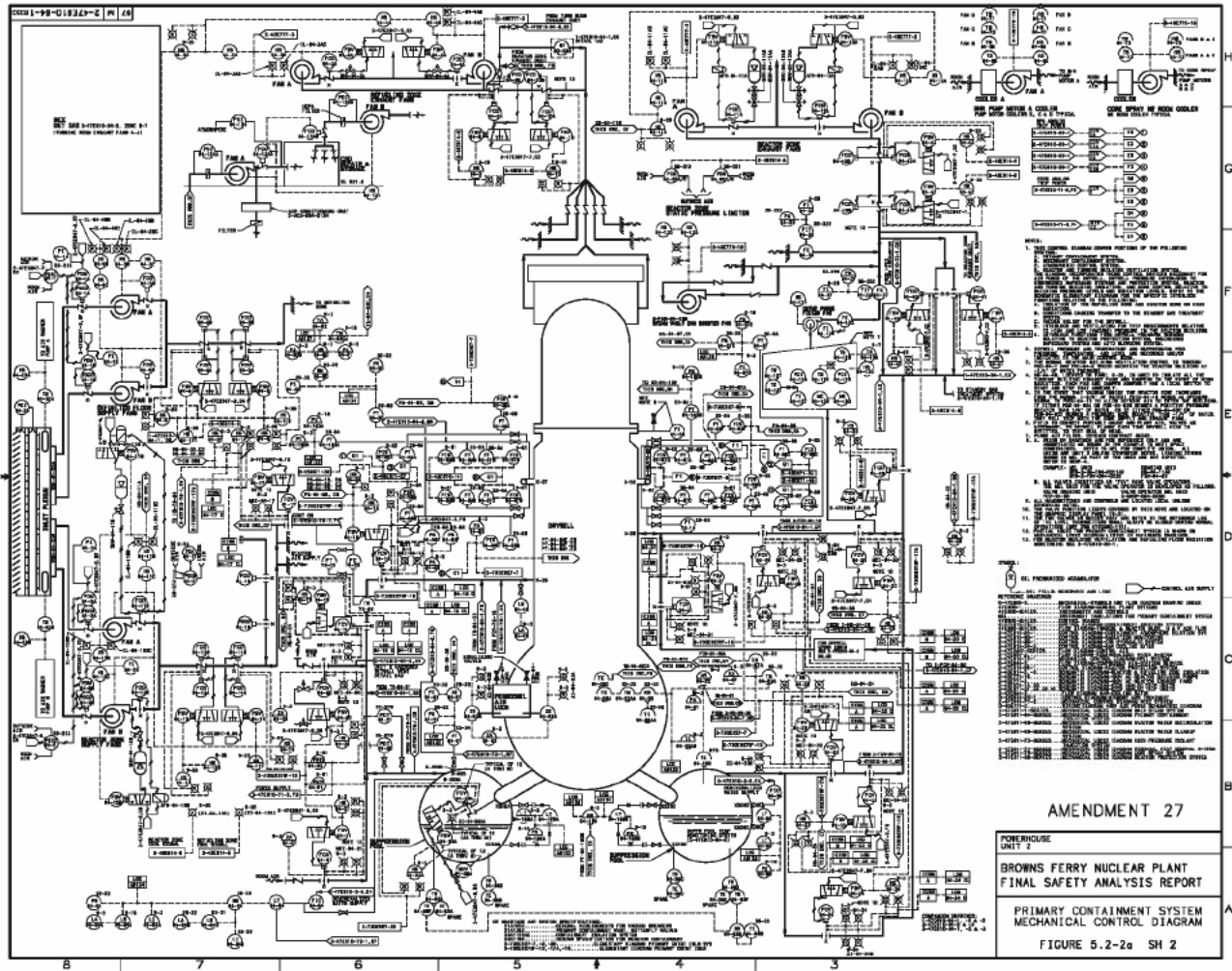
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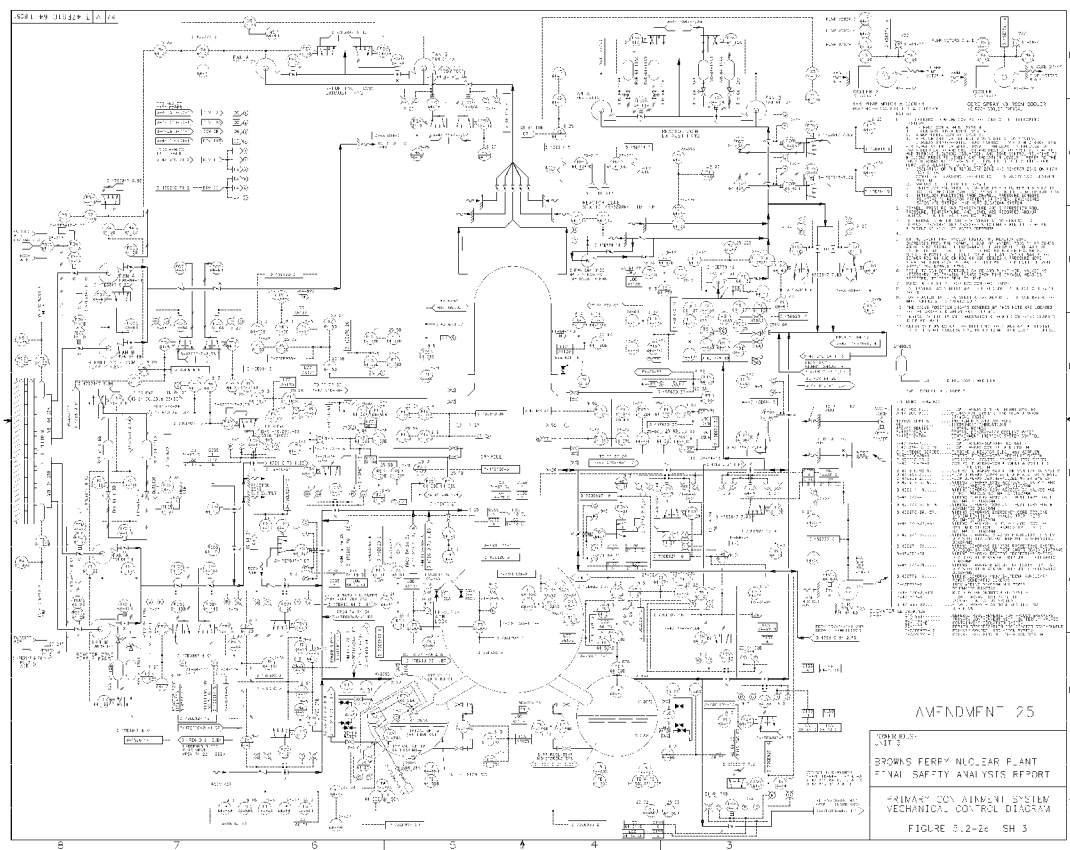
**BFN-16**

**Figure 5.2-2**

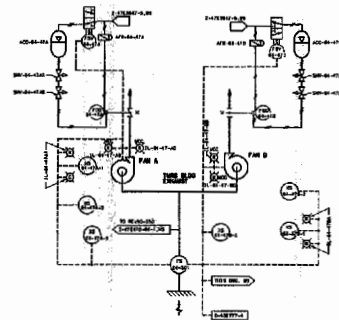
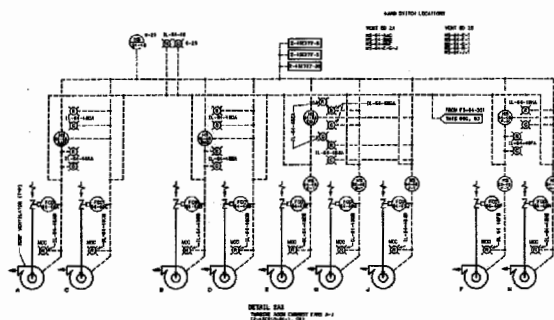
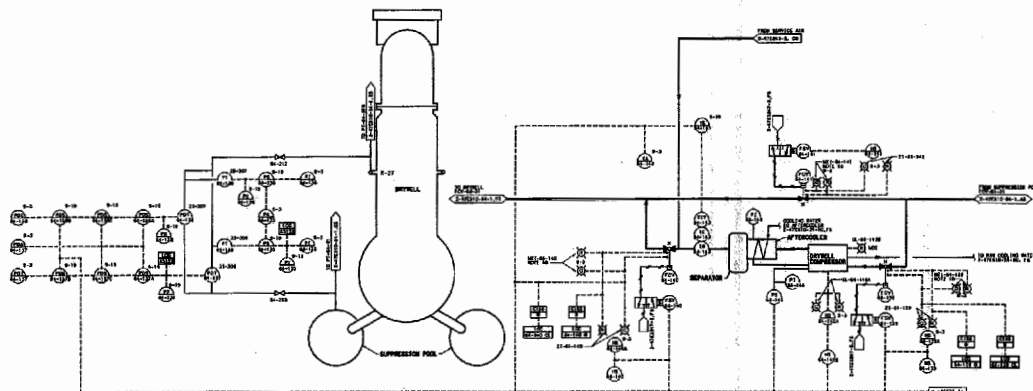
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SIOW 2-58-010314-2 (M 42)



AMENDMENT 22

POWERHOUSE  
UNIT 2  
BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT  
PRIMARY CONTAINMENT SYSTEM  
MECHANICAL CONTROL DIAGRAM  
FIGURE 5.2-2b

TOUR PRESTATION (TOP)

DIVISION 1

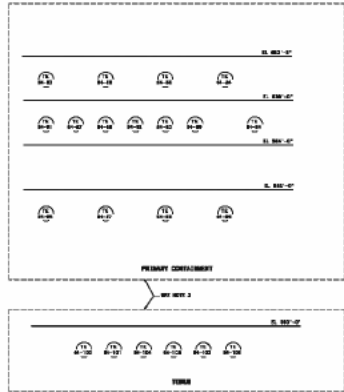
2-1000-1

DIVISION 11

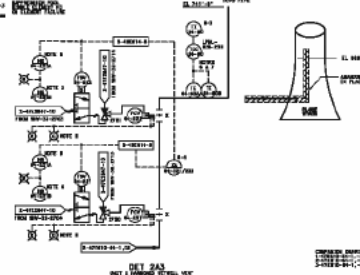
2-1000-1

SUPPRESSION POOL TEMPERATURE MONITORING SYSTEM

EXHAUSTION LEAK MONITOR ELEMENTS  
(LINE 8-1000-100 FOR GENERAL PLANT LOCATIONS)



- NOTES:
1. THE MONITORING SYSTEM IS DESIGNED TO DETECT AND LOCATE LEAKS IN THE PRIMARY CONTAINMENT SYSTEM.
  2. THE MONITORING SYSTEM IS DESIGNED TO DETECT AND LOCATE LEAKS IN THE PRIMARY CONTAINMENT SYSTEM.
  3. THE MONITORING SYSTEM IS DESIGNED TO DETECT AND LOCATE LEAKS IN THE PRIMARY CONTAINMENT SYSTEM.
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  7. THE MONITORING SYSTEM IS DESIGNED TO DETECT AND LOCATE LEAKS IN THE PRIMARY CONTAINMENT SYSTEM.
  8. THE MONITORING SYSTEM IS DESIGNED TO DETECT AND LOCATE LEAKS IN THE PRIMARY CONTAINMENT SYSTEM.
  9. THE MONITORING SYSTEM IS DESIGNED TO DETECT AND LOCATE LEAKS IN THE PRIMARY CONTAINMENT SYSTEM.
  10. THE MONITORING SYSTEM IS DESIGNED TO DETECT AND LOCATE LEAKS IN THE PRIMARY CONTAINMENT SYSTEM.
- EXHAUSTION LEAK MONITOR ELEMENTS
- EL 800-10 - 1000-100
- EL 800-11 - 1000-100
- EL 800-12 - 1000-100
- EL 800-13 - 1000-100



AMENDMENT 27

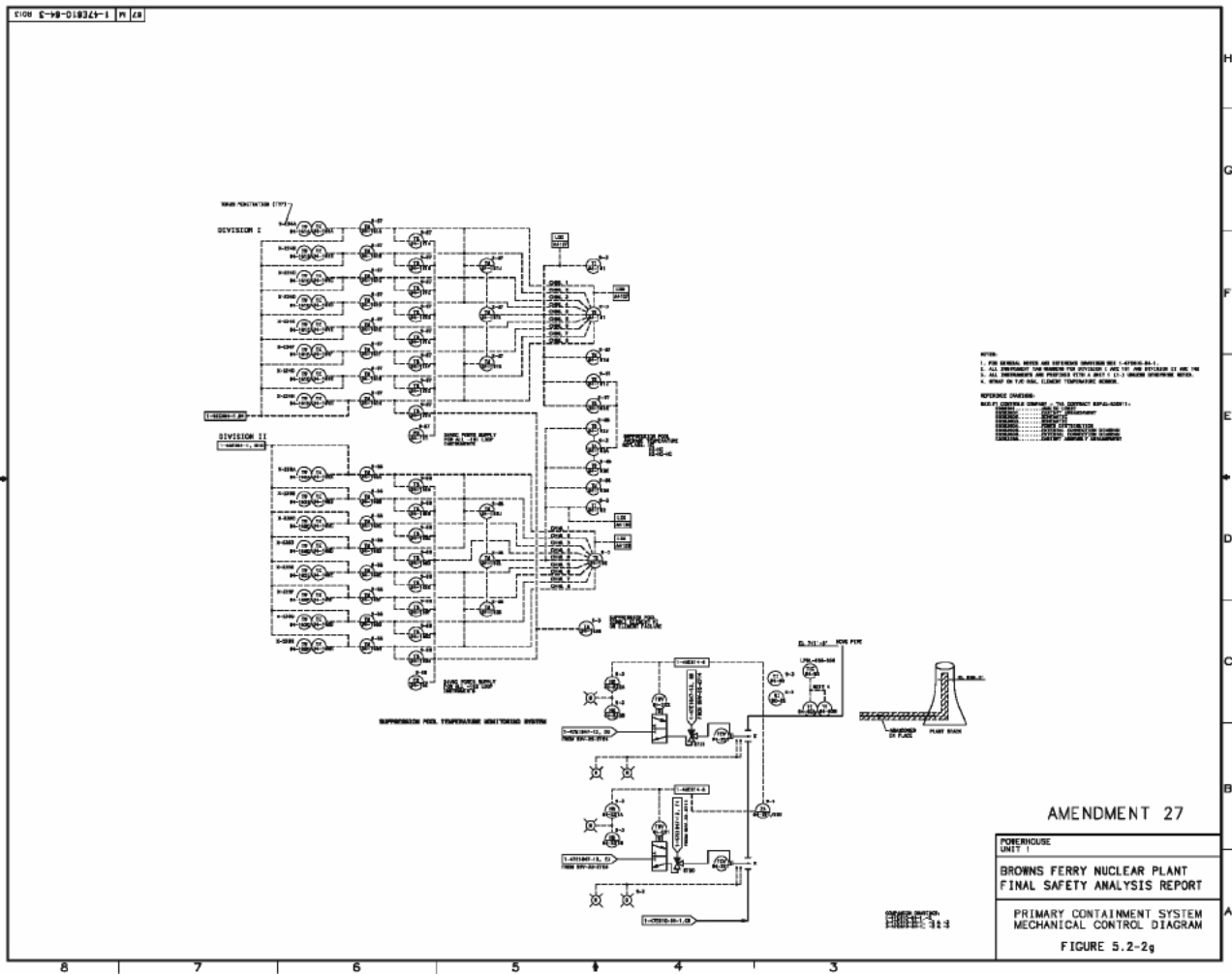
POWERHOUSE  
UNIT 2  
BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT  
PRIMARY CONTAINMENT SYSTEM  
MECHANICAL CONTROL DIAGRAM  
FIGURE 5.2-2e

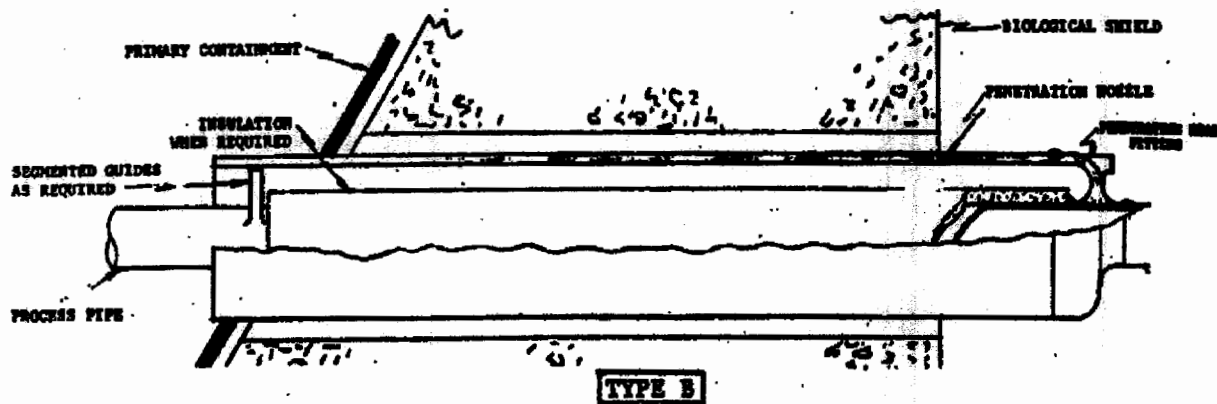
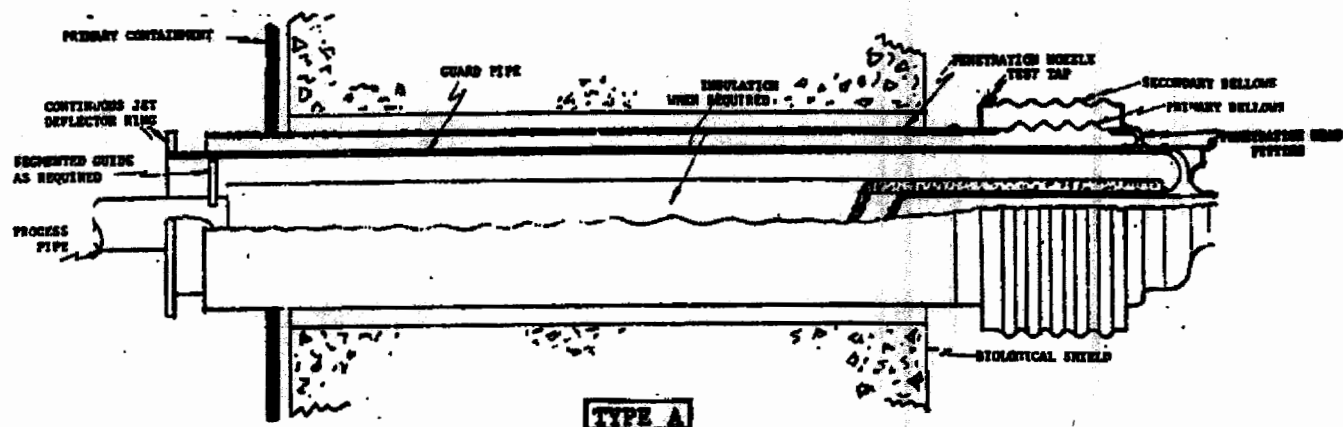








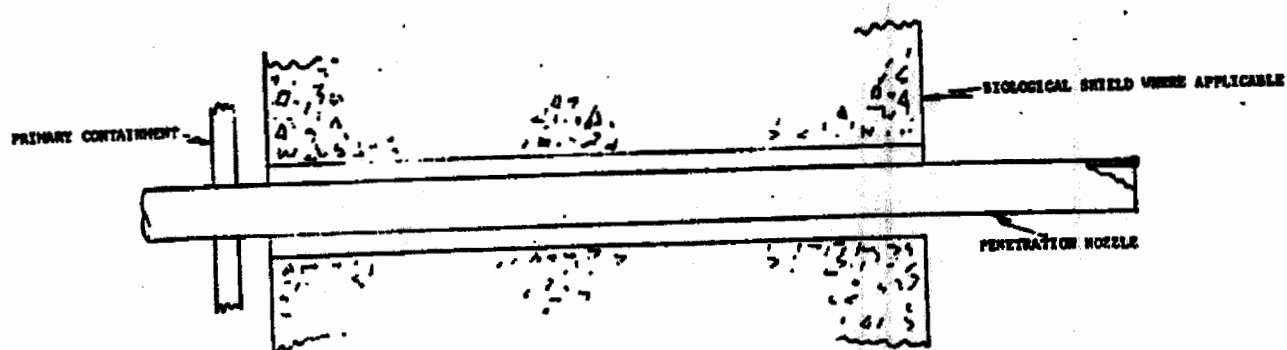




## AMENDMENT 16

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

Types of Penetrations for Process Lines  
**FIGURE 5.2-3**

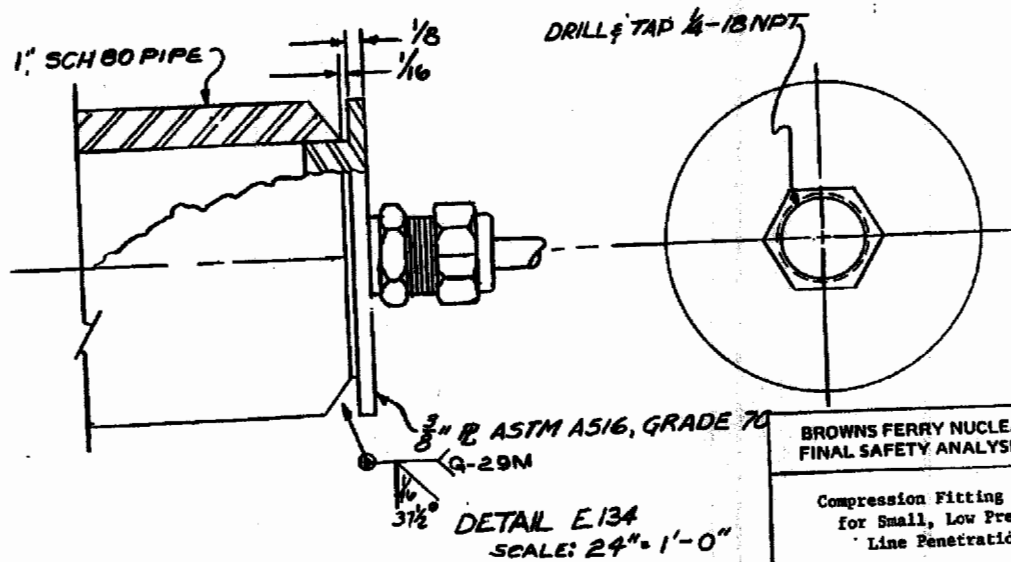


## AMENDMENT 16

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

Penetration Assembly for Process Lines

FIGURE 5.2.4

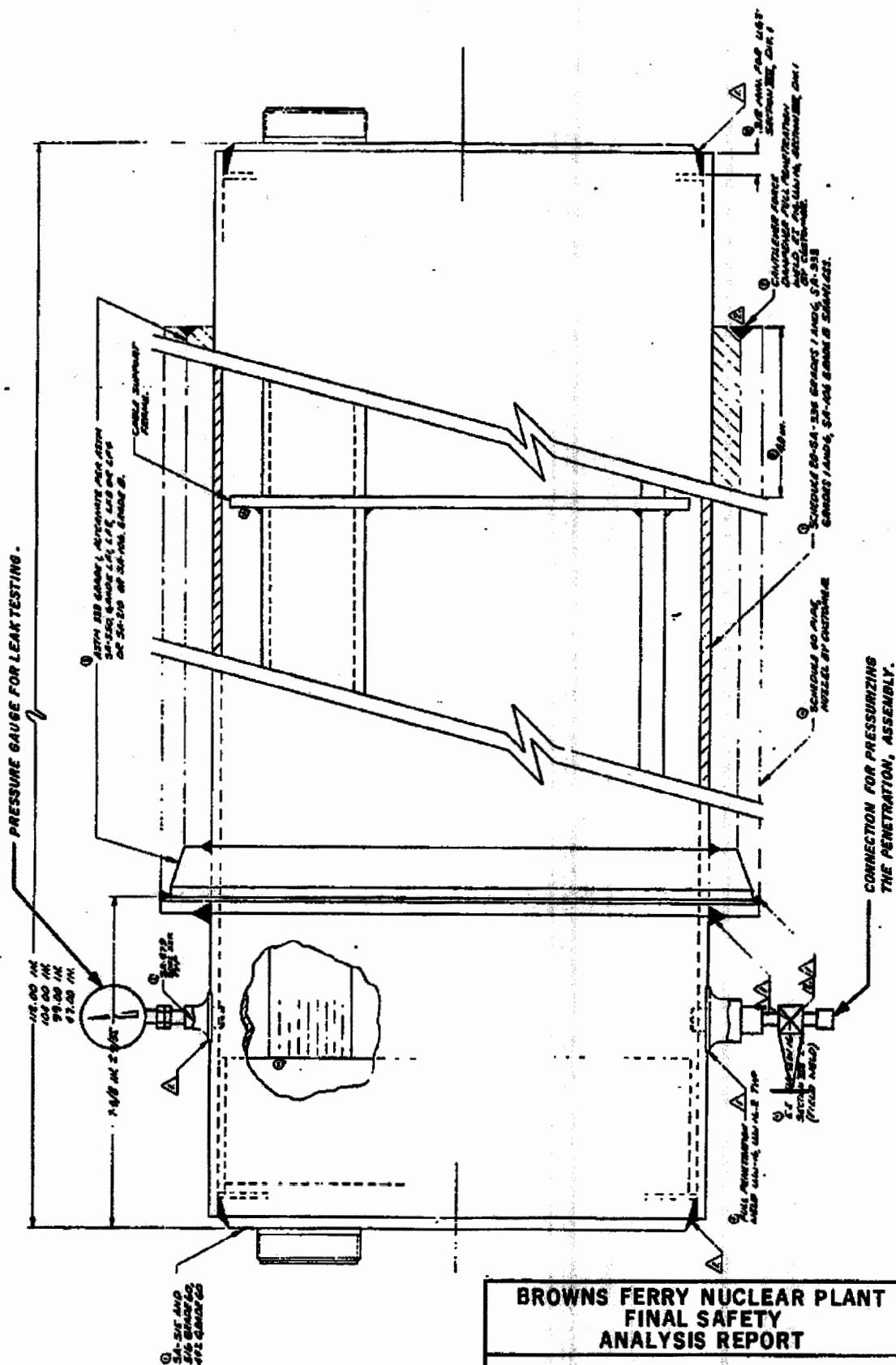


BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT

Compression Fitting Assembly  
for Small, Low Pressure  
Line Penetrations

FIGURE 5.2-4a

AMENDMENT 16

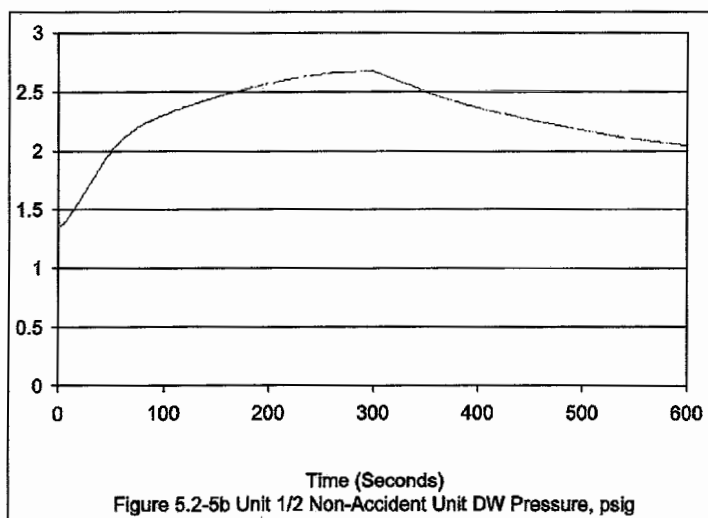


AMENDMENT 16

# BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

ELECTRICAL AND CONTROL  
PENETRATION  
FIGURE 5.2-5



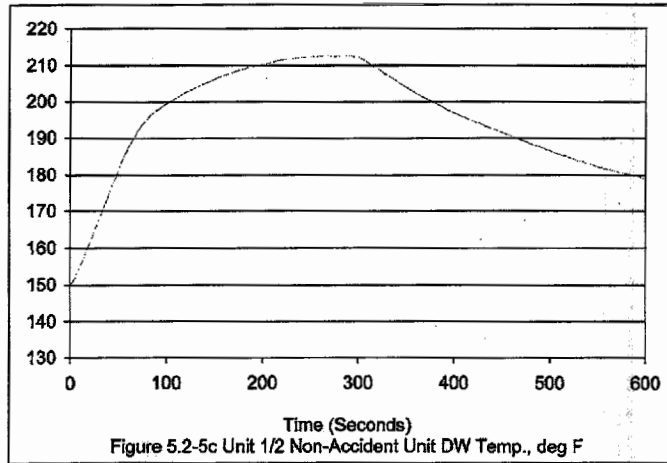


# AMENDMENT 23

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

UNIT 1/2 NON-ACCIDENT UNIT DW  
PRESSURE, psig

FIGURE 5.2-5b

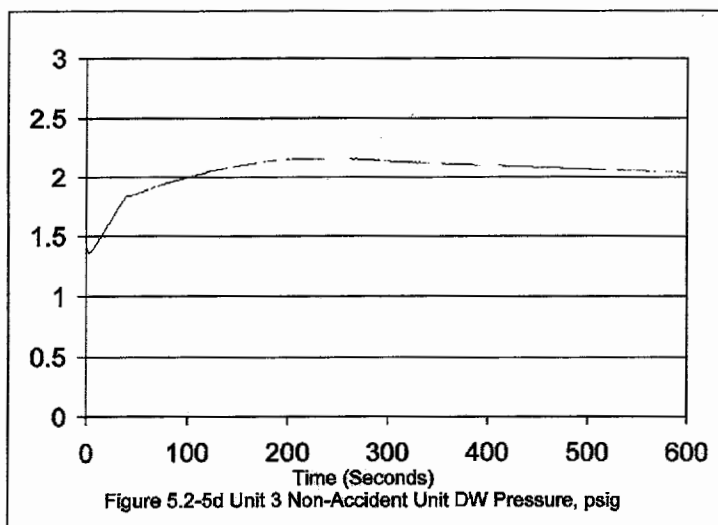


# AMENDMENT 23

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

UNIT 1/2 NON-ACCIDENT UNIT DW  
TEMP., deg F

FIGURE 5.2-5c

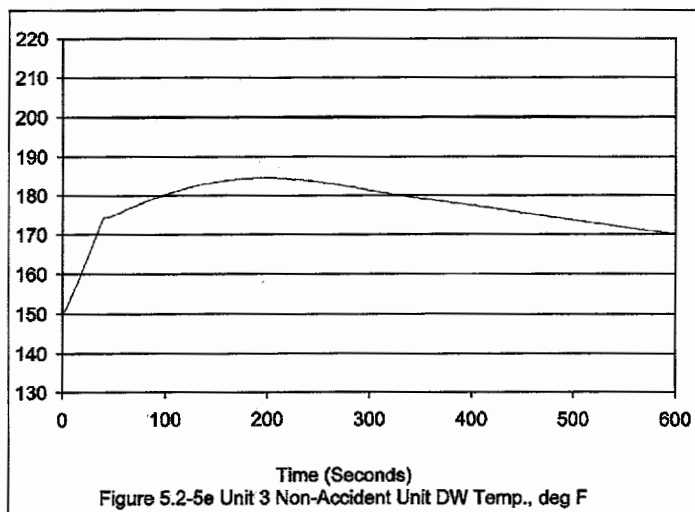


# AMENDMENT 23

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

UNIT 3 NON-ACCIDENT UNIT DW  
PRESSURE, psig

FIGURE 5.2-5d



# AMENDMENT 23

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

UNIT 3 NON-ACCIDENT UNIT DW  
TEMP., deg F

FIGURE 5.2-5e

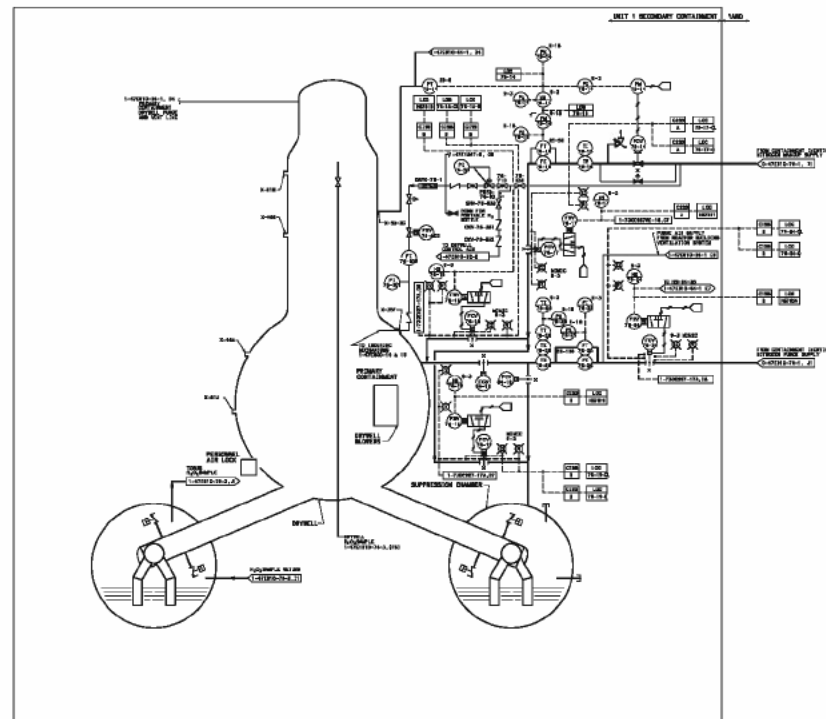
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FIGURE 2

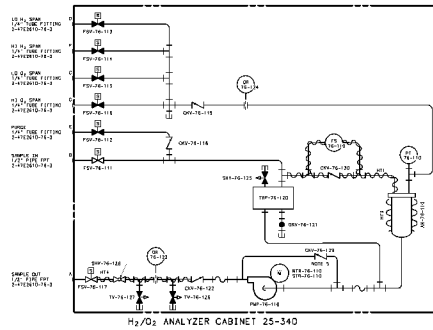
—●—●—●— NITROGEN CONTROL, GAS SUPPLY LINES.

AMENDMENT 27

|  |
|--|
| POWERHOUSE & YARD<br>UNITS 1 & 2                           |
| BROWNS FERRY NUCLEAR PLANT<br>FINAL SAFETY ANALYSIS REPORT |
| CONTAINMENT INERTING SYSTEM<br>MECHANICAL CONTROL DIAGRAM  |

FIGURE 5.2-6a SH 1

11049-92-0193(A-Z) H 19



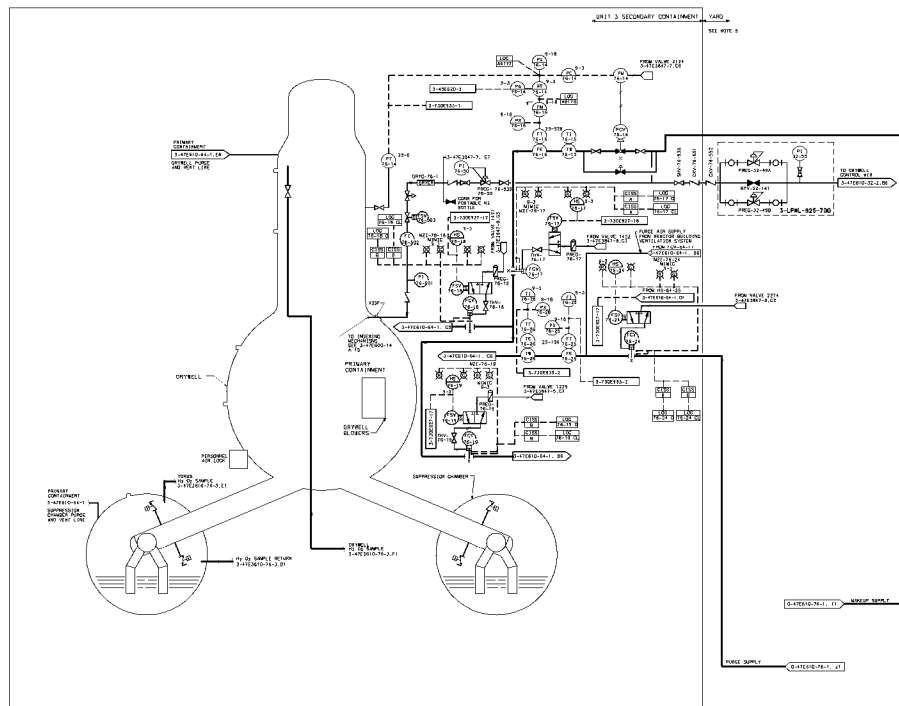
- NOTES:
1. FOR GENERAL REFERENCES AND REFERENCES DRAWINGS SEE 5-17000-78-1.
  2. FOR COMPONENTS AND PARTS SEE 5-17000-78-1.
  3. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
  4. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
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# AMENDMENT 24

|  |
|--|
| POWERHOUSE<br>UNIT 2                                       |
| BROWNS FERRY NUCLEAR PLANT<br>FINAL SAFETY ANALYSIS REPORT |
| CONTAINMENT INERTING SYSTEM<br>MECHANICAL CONTROL DIAGRAM  |
| FIGURE 5.2-6a SH 2   |





- CONTAINMENT INERTING SYSTEM
1. INERTING GAS SYSTEM - CONTAINMENT INERTING SYSTEM
  2. INERTING GAS SYSTEM - CONTAINMENT INERTING SYSTEM
  3. INERTING GAS SYSTEM - CONTAINMENT INERTING SYSTEM
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  10. INERTING GAS SYSTEM - CONTAINMENT INERTING SYSTEM
  11. INERTING GAS SYSTEM - CONTAINMENT INERTING SYSTEM

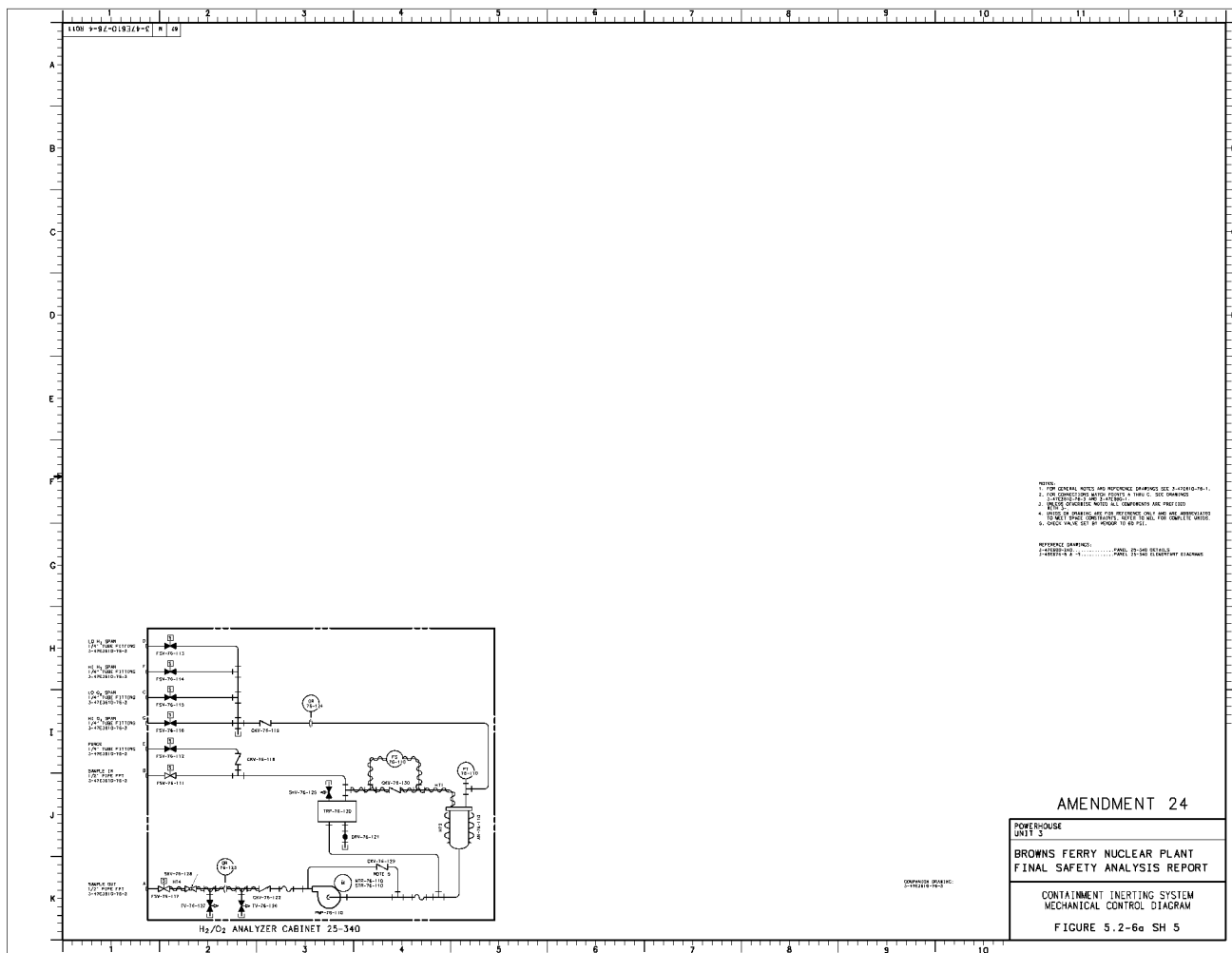
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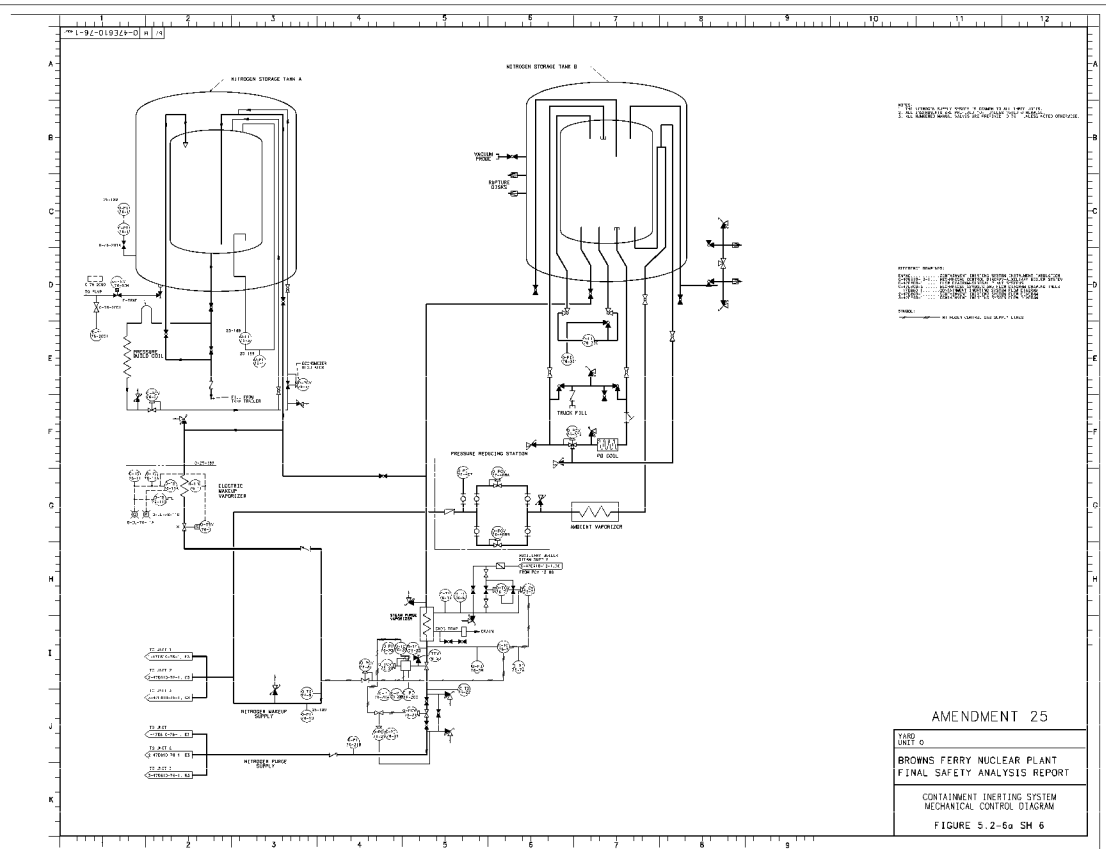
AMENDMENT 24

|  |
|--|
| POWERHOUSE<br>UNIT 3                                       |
| BROWNS FERRY NUCLEAR PLANT<br>FINAL SAFETY ANALYSIS REPORT |
| CONTAINMENT INERTING SYSTEM<br>MECHANICAL CONTROL DIAGRAM  |
| FIGURE 5.2-6a SH 4   |

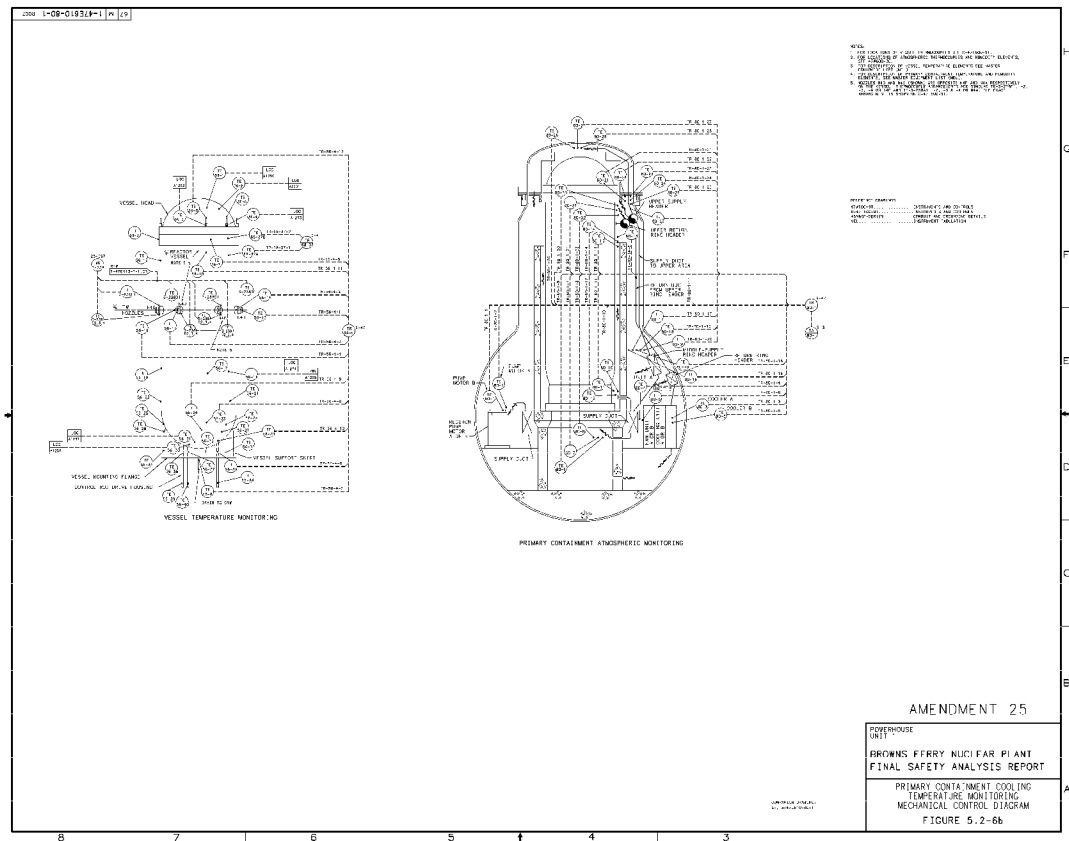
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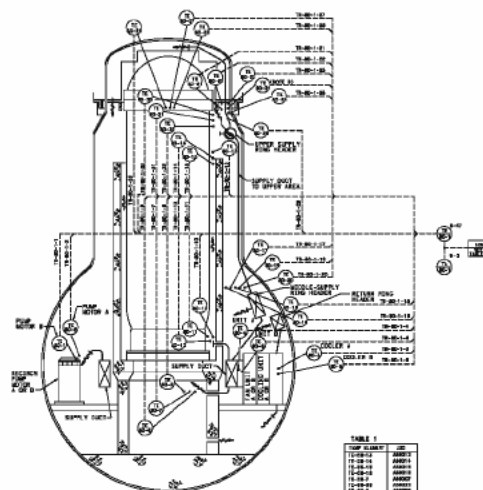
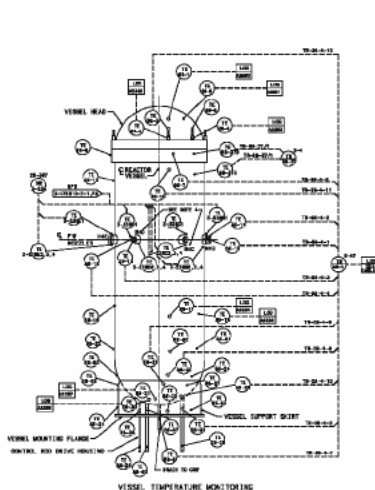












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| 10-00-04          | AB004 |
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| 10-00-45          | AB045 |
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| 10-00-69          | AB069 |
| 10-00-70          | AB070 |
| 10-00-71          | AB071 |
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| 10-00-84          | AB084 |
| 10-00-85          | AB085 |
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| 10-00-95          | AB095 |
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| 10-00-97          | AB097 |
| 10-00-98          | AB098 |
| 10-00-99          | AB099 |
| 10-00-100         | AB100 |

| TEMP. SENSITIVITY | NO.   |
|-------------------|-------|
| 10-00-01          | AB001 |
| 10-00-02          | AB002 |
| 10-00-03          | AB003 |
| 10-00-04          | AB004 |
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NOTES:

1. THE SYSTEM IS DESIGNED TO MONITOR THE TEMPERATURE OF THE PRIMARY CONTAINMENT COOLING SYSTEM.
2. THE SYSTEM IS DESIGNED TO MONITOR THE TEMPERATURE OF THE PRIMARY CONTAINMENT COOLING SYSTEM.
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REFERENCE MATERIAL:

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# AMENDMENT 26

POWERHOUSE UNIT 2

BROWNS FERRY NUCLEAR PLANT

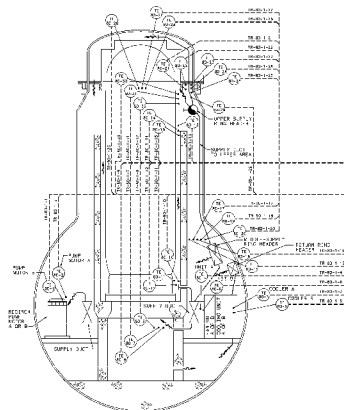
FINAL SAFETY ANALYSIS REPORT

PRIMARY CONTAINMENT COOLING

TEMPERATURE MONITORING

MECHANICAL CONTROL DIAGRAM

FIGURE 5.2-6e



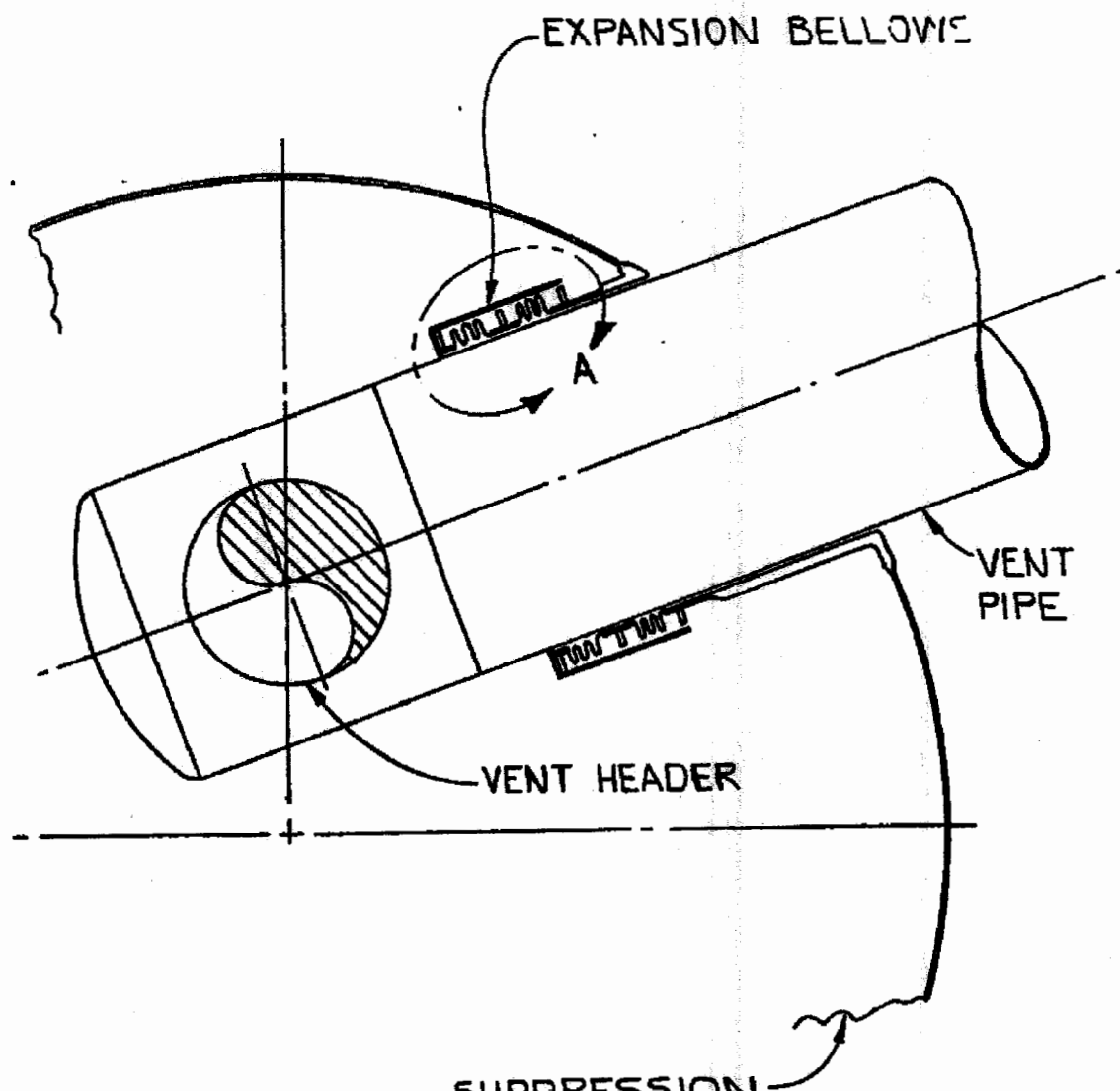
PRIMARY CONTAINMENT ATMOSPHERIC MONITORING

SECURITY RELATED INFORMATION  
FIGURE WITHHELD UNDER 10 CFR 2.390

AMENDMENT 16

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

Drywell Pipe Whip  
Protection  
Figure No.  
5.2-4a

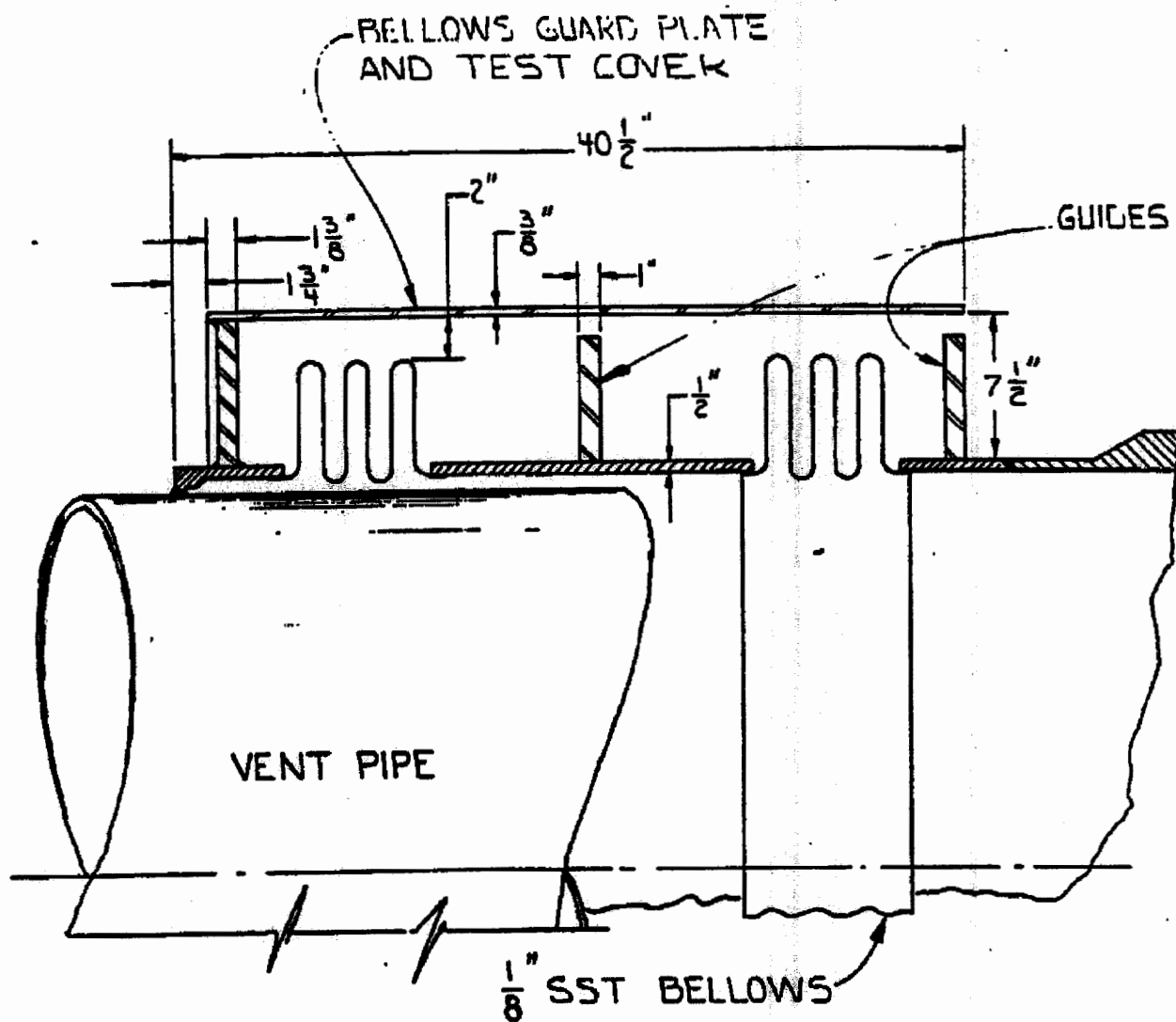


SUPPRESSION  
CHAMBER AMENDMENT 16

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

DRYWELL VENT PIPE EXPANSION  
BELLOWS  
FIGURE 5.2-6f





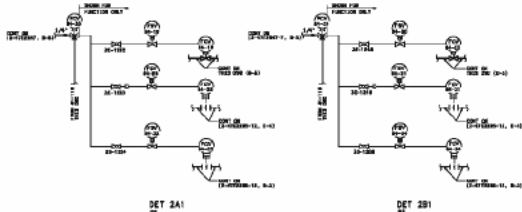
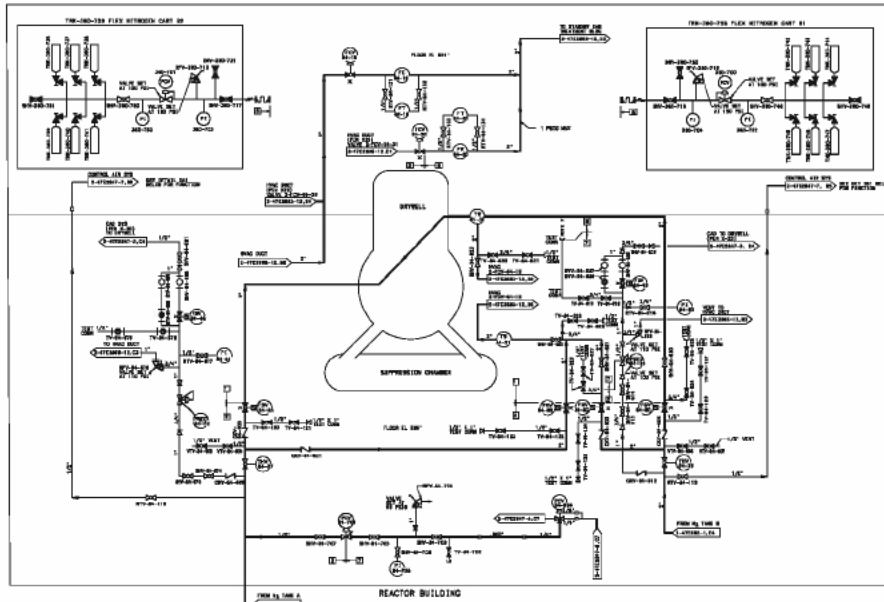
VIEW A

AMENDMENT 16

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

DRYWELL VENT PIPE EXPANSION  
BELLOWS VIEW A  
FIGURE 5.2-6g





| ITEM | DESCRIPTION  | UNIT | QTY |
|------|--------------|------|-----|
| 1    | 1/2" SCH 40S | FT   | 100 |
| 2    | 1/2" SCH 40S | FT   | 100 |
| 3    | 1/2" SCH 40S | FT   | 100 |
| 4    | 1/2" SCH 40S | FT   | 100 |
| 5    | 1/2" SCH 40S | FT   | 100 |
| 6    | 1/2" SCH 40S | FT   | 100 |
| 7    | 1/2" SCH 40S | FT   | 100 |
| 8    | 1/2" SCH 40S | FT   | 100 |
| 9    | 1/2" SCH 40S | FT   | 100 |
| 10   | 1/2" SCH 40S | FT   | 100 |

NOTES:

1. SEE NOTE 1 OF THE PREVIOUS EDITION FOR THE REACTOR BUILDING.
2. SEE NOTE 2 OF THE PREVIOUS EDITION FOR THE REACTOR BUILDING.
3. SEE NOTE 3 OF THE PREVIOUS EDITION FOR THE REACTOR BUILDING.
4. SEE NOTE 4 OF THE PREVIOUS EDITION FOR THE REACTOR BUILDING.
5. SEE NOTE 5 OF THE PREVIOUS EDITION FOR THE REACTOR BUILDING.
6. SEE NOTE 6 OF THE PREVIOUS EDITION FOR THE REACTOR BUILDING.
7. SEE NOTE 7 OF THE PREVIOUS EDITION FOR THE REACTOR BUILDING.
8. SEE NOTE 8 OF THE PREVIOUS EDITION FOR THE REACTOR BUILDING.
9. SEE NOTE 9 OF THE PREVIOUS EDITION FOR THE REACTOR BUILDING.
10. SEE NOTE 10 OF THE PREVIOUS EDITION FOR THE REACTOR BUILDING.

REVISIONS:

| NO. | DATE    | DESCRIPTION             |
|-----|---------|-------------------------|
| 1   | 10/1/78 | ISSUED FOR CONSTRUCTION |
| 2   | 10/1/78 | ISSUED FOR CONSTRUCTION |
| 3   | 10/1/78 | ISSUED FOR CONSTRUCTION |
| 4   | 10/1/78 | ISSUED FOR CONSTRUCTION |
| 5   | 10/1/78 | ISSUED FOR CONSTRUCTION |
| 6   | 10/1/78 | ISSUED FOR CONSTRUCTION |
| 7   | 10/1/78 | ISSUED FOR CONSTRUCTION |
| 8   | 10/1/78 | ISSUED FOR CONSTRUCTION |
| 9   | 10/1/78 | ISSUED FOR CONSTRUCTION |
| 10  | 10/1/78 | ISSUED FOR CONSTRUCTION |

BY: [Signature]

DATE: 10/1/78

# AMENDMENT 26

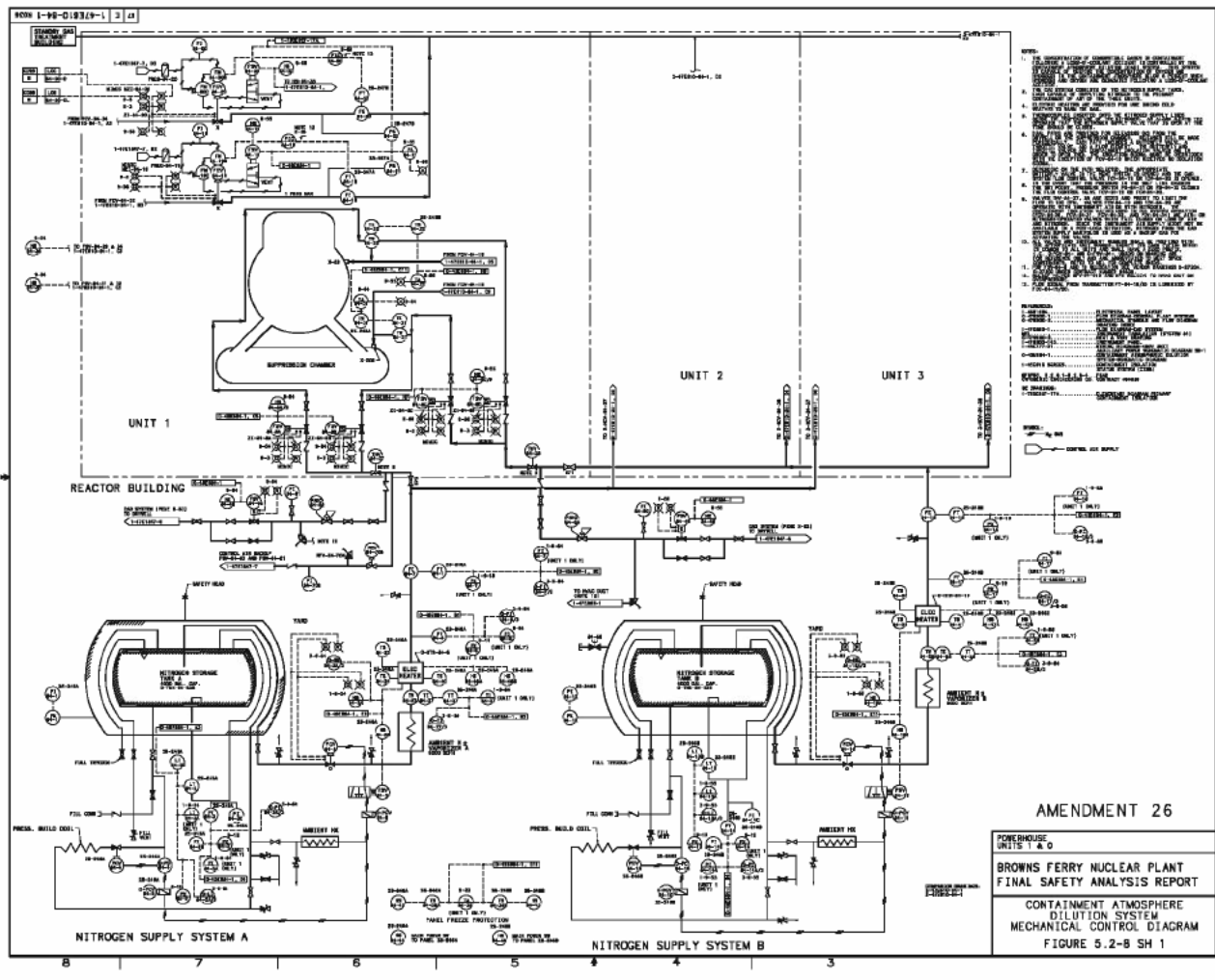
POWERHOUSE  
UNIT 2

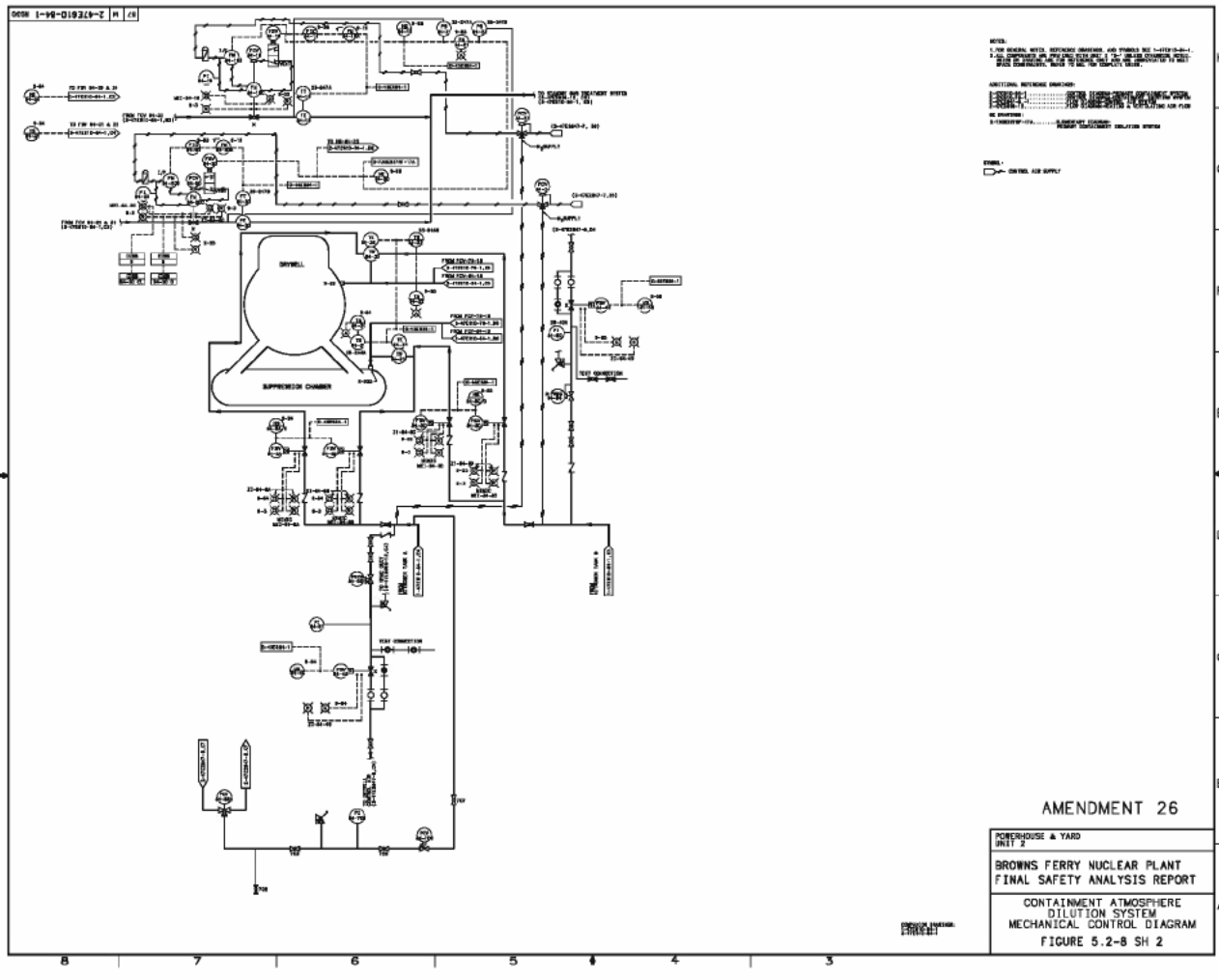
BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT

CONTAINMENT ATMOSPHERE  
DILUTION SYSTEM  
FLOW DIAGRAM

FIGURE 5.2-7 SH 2









**BFN-16**

**Figures 5.2-9 through 5.2-10**

**Deleted**



**BFN-18**

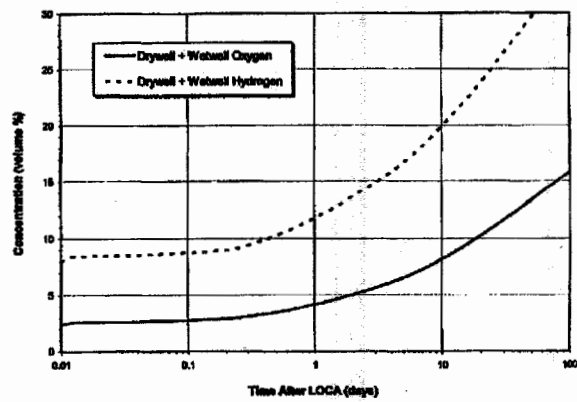
**Figure 5.2-11**

**(Deleted by Amendment 17)**

**BFN-16**

**Figure 5.2-12**

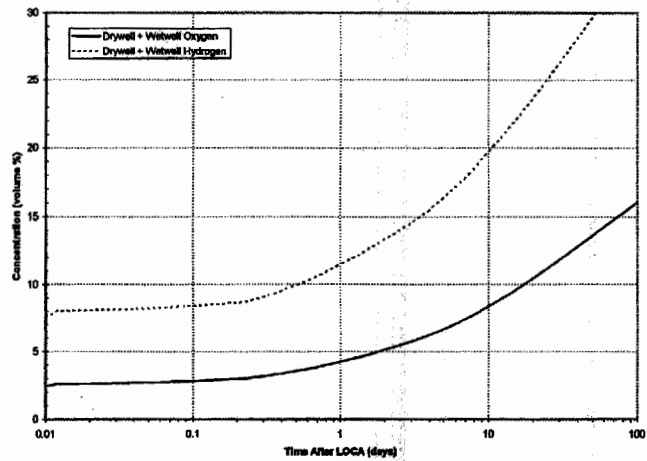
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# ADMENDMENT 20

BROWNS FERRY NUCLEAR PLANT  
 FINAL SAFETY ANALYSIS REPORT  
 HYDROGEN AND OXYGEN CONCENTRATIONS  
 IN CONTAINMENT FOLLOWING LOCA  
 WITHOUT NITROGEN INJECTION  
 (SAFETY GUIDE 7 ASSUMPTIONS,  
 GE 14 FUEL, NO CONTAINMENT LEAKAGE)

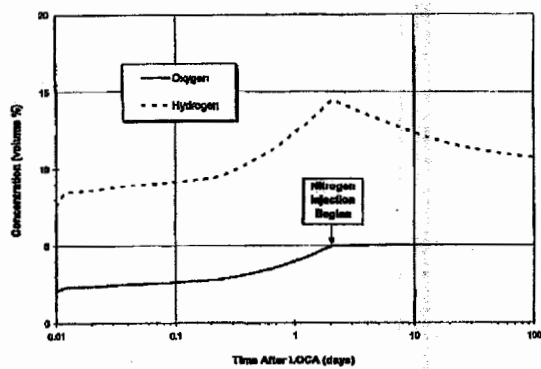
FIGURE 5.2-13



# ADMENDMENT 21

BROWNS FERRY NUCLEAR PLANT  
 FINAL SAFETY ANALYSIS REPORT  
 HYDROGEN AND OXYGEN CONCENTRATIONS  
 IN CONTAINMENT FOLLOWING LOCA  
 WITHOUT NITROGEN INJECTION  
 (SAFETY GUIDE 7 ASSUMPTIONS,  
 ATRIUM-10 FUEL, NO CONTAINMENT LEAKAGE)

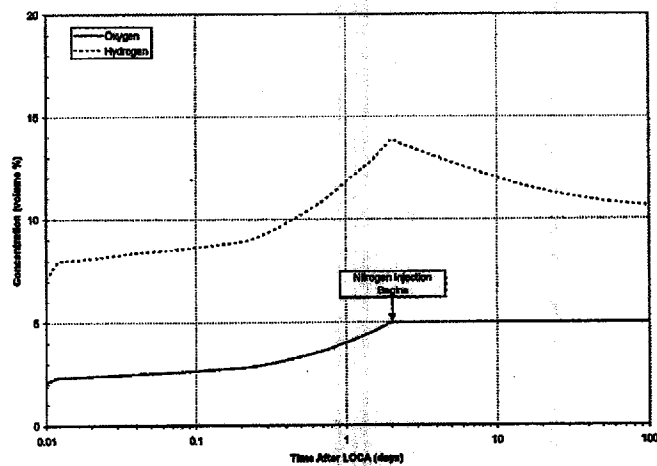
FIGURE 5.2-13a



# ADMENDMENT 20

BROWNS FERRY NUCLEAR PLANT  
 FINAL SAFETY ANALYSIS REPORT  
 HYDROGEN AND OXYGEN CONCENTRATIONS  
 IN DRYWELL FOLLOWING LOCA  
 WITH NITROGEN INJECTION  
 (SAFETY GUIDE 7 ASSUMPTIONS,  
 GE 14 FUEL, NO CONTAINMENT LEAKAGE)

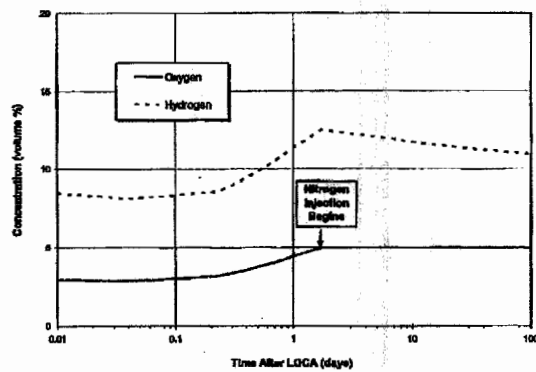
FIGURE 5.2-14



# ADMENDMENT 21

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT  
HYDROGEN AND OXYGEN CONCENTRATIONS  
IN DRYWELL FOLLOWING LOCA  
WITH NITROGEN INJECTION  
(SAFETY GUIDE 7 ASSUMPTIONS,  
ATRIUM-TO FUEL, NO CONTAINMENT LEAKAGE)

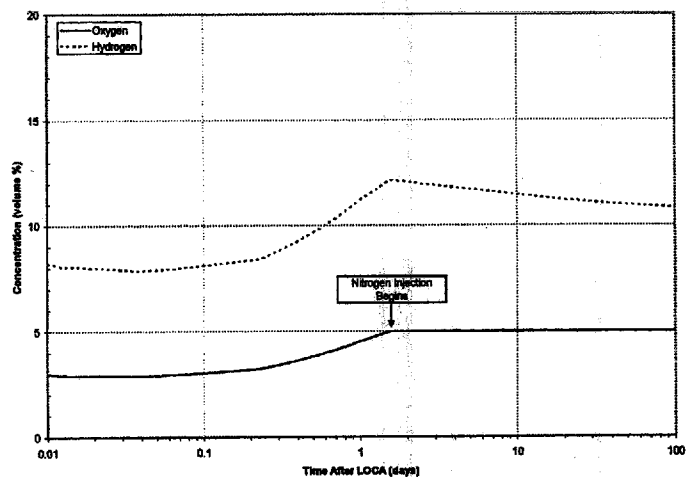
FIGURE 5.2-14a



# ADMENDMENT 20

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT  
HYDROGEN AND OXYGEN CONCENTRATIONS  
IN PRESSURE SUPPRESSION FOLLOWING  
LOCA WITH NITROGEN INJECTION  
(SAFETY GUIDE 7 ASSUMPTIONS,  
GE 14 FUEL, NO CONTAINMENT LEAKAGE)

FIGURE 5.2-15



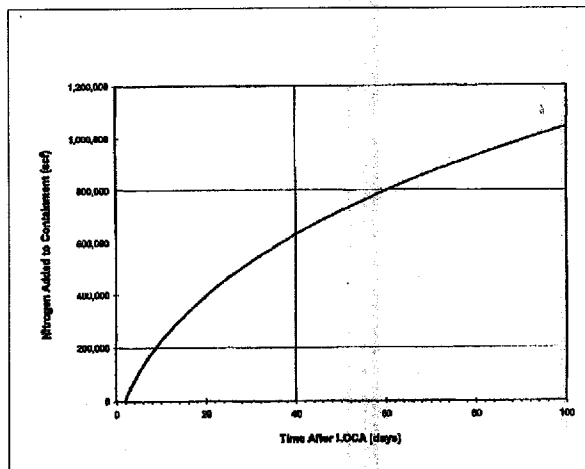
# ADMENDMENT 21

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT

HYDROGEN AND OXYGEN CONCENTRATIONS  
IN PRESSURE SUPPRESSION FOLLOWING  
LOCA WITH NITROGEN INJECTION  
(SAFETY GUIDE 7 ASSUMPTIONS,  
ATRIUM-10 FUEL, NO CONTAINMENT LEAKAGE)

FIGURE 5.2-15a



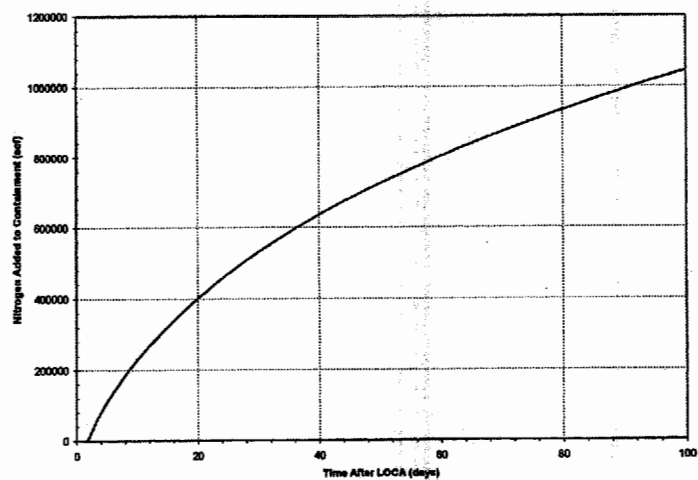


# ADMENDMENT 20

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT

MAXIMUM NITROGEN REQUIRED FOR DILUTION,  
SGF AT 20 DEGREES C AND 1 ATM  
(SAFETY GUIDE 7 ASSUMPTIONS,  
GE 14 FUEL, NO CONTAINMENT LEAKAGE)

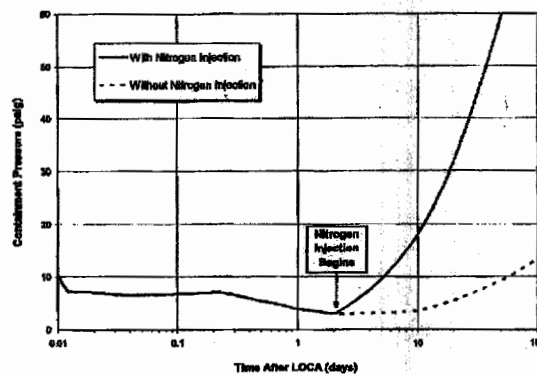
FIGURE 5.2-16



#### ADMENDMENT 21

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT  
MAXIMUM NITROGEN REQUIRED FOR DILUTION,  
SCF AT 20 DEGREES C AND 1 ATM  
WITH NITROGEN INJECTION  
(SAFETY GUIDE 7 ASSUMPTIONS,  
ATRIUM-10 FUEL, NO CONTAINMENT LEAKAGE)

FIGURE 5.2-16a

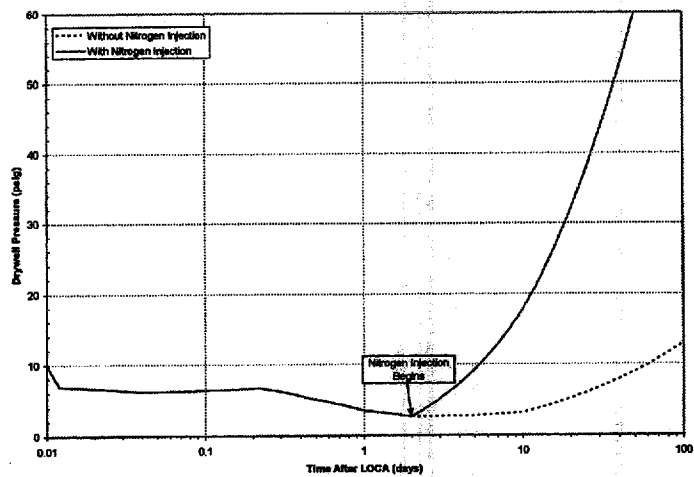


## ADMENDMENT 20

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT

MAXIMUM CONTAINMENT PRESSURE  
FOLLOWING LOCA WITH NITROGEN INJECTION  
(SAFETY GUIDE 7 ASSUMPTIONS,  
GE 14 FUEL, NO CONTAINMENT LEAKAGE)

FIGURE 5.2-17



# ADMENDMENT 21

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT

MAXIMUM CONTAINMENT PRESSURE  
FOLLOWING LOCA WITH NITROGEN INJECTION  
(SAFETY GUIDE 7 ASSUMPTIONS,  
ATRIUM-10 FUEL, NO CONTAINMENT LEAKAGE)

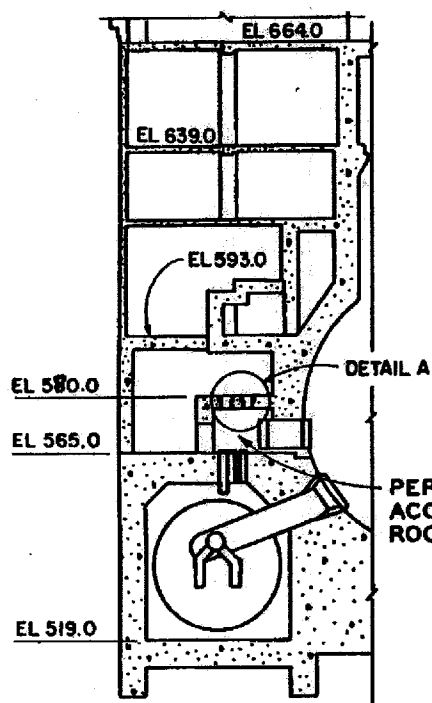
FIGURE 5.2-17a

**BFN-17**

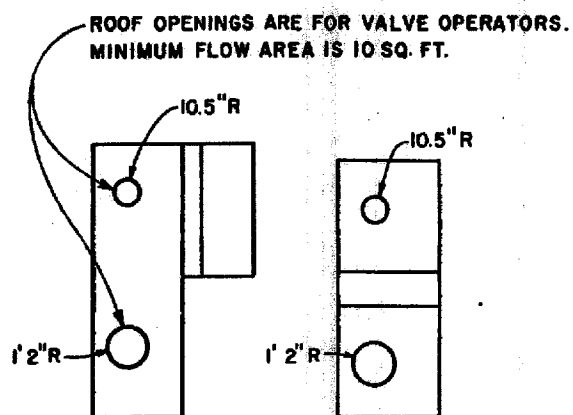
**Figure 5.2-18**

**(Deleted by Amendment 17)**

|



**ELEVATION**



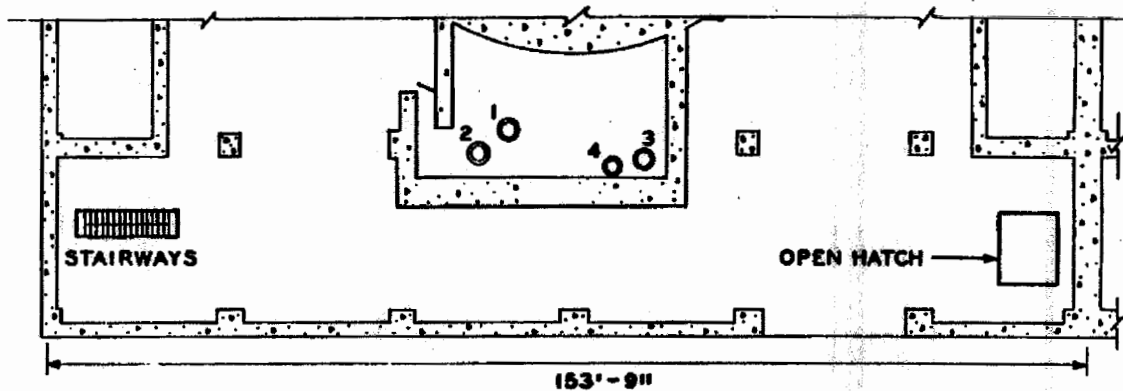
**DETAIL A  
(PLAN VIEW)  
(EL 580)**

**AMENDMENT 16**

**BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT**

**Convection Flow Path Through  
Personnel Access Room**

**FIGURE 5.2-19**



FLOOR PLAN EL 565.0

FLOOR OPENINGS

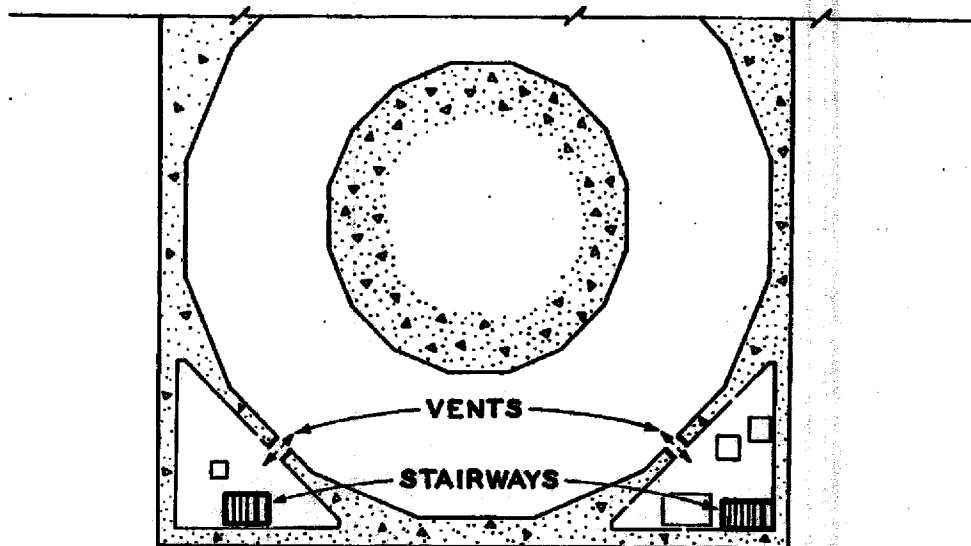
| SLEEVE | OD<br>(IN.) | ID<br>(IN.) | OD OF PIPING THRU SLEEVE<br>INCLUDING INSULATION<br>(IN.) | FLOW AREA<br>(FT. <sup>2</sup> ) |
|--------|-------------|-------------|---|----------------------------------|
| 1      | 36          | 35.67       | 26  | 3.5                              |
| 2      | 36          | 35.67       | 29  | 2.3                              |
| 3      | 36          | 35.67       | 29  | 2.3                              |
| 4      | 24          | 23.67       | 1.9, 1.315  | 3.1                              |
| TOTAL  |             |             |   | 11.2                             |

AMENDMENT 16

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT

Convection Flow Path Through  
Personnel Access Room

FIGURE 5.2-20



PLAN  
EL. 519

AMENDMENT 16

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT

Convection Flow Path Through  
Personnel Access Room

FIGURE 5.2-21



**BFN-16**

**Figure 5.2-22, Sheets 1, 2, and 3**

**Deleted by Amendment 15.**