

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8601280114 DOC. DATE: 86/01/22 NOTARIZED: NO DOCKET #  
 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylvania 05000387  
 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylvania 05000388  
 AUTH. NAME AUTHOR AFFILIATION  
 KEISER, H. W. Pennsylvania Power & Light Co.  
 RECIP. NAME RECIPIENT AFFILIATION  
 ADENSON, E. BWR Project Directorate 3

SUBJECT: Forwards initial leak test results for post-accident sampling sys, per commitment in FSAR section 18.1.69. Test results not included w/initial leak test results for other sys listed in FSAR section.

DISTRIBUTION CODE: A001D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 15  
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NOTES: 1cy NMSS/FCAF/PM. LPDR 2cys Transcripts. 05000387  
 OL: 07/17/82  
 1cy NMSS/FCAF/PM. LPDR 2cys Transcripts. 05000388  
 OL: 03/23/84

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BWR EB	1	1	BWR EICSB	1	1
BWR FOB	1	1	CAMPAGNONE	1	1
BWR PSB	1	1	BWR RSB	1	1

INTERNAL: ACRS 09	6	6	ADM/LFMB	1	0
ELD/HDS4	1	0	NRR/DHFT/TSCB	1	1
NRR/DSRD/RRAB	1	1	NRR/ORAS	1	0
<u>REG FILE</u> 04	1	1	RGN1	1	1
EXTERNAL: 24X	1	1	EG&G BRUSKE, S	1	1
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NOTES: 3 3

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Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101 • 215 / 770-5151

Harold W. Keiser  
Vice President-Nuclear Operations  
215/770-7502

JAN 22 1986

Director of Nuclear Reactor Regulation  
Attention: Ms. E. Adensam, Project Director  
BWR Project Directorate No. 3  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington DC 20555

SUSQUEHANNA STEAM ELECTRIC STATION  
PASS LEAK TEST RESULTS  
ER 100450 FILE 841-2  
PLA - 2583

Docket Nos. 50-387  
50-388

Dear Ms. Adensam:

The purpose of this letter is to transmit the initial leak test results for the PASS System for both Unit 1 and Unit 2 per our commitment in FSAR Section 18.1.69. These test results were not included with the initial leak test results for the other systems listed in FSAR Section 18.1.69. The initial leak test results for the other systems were transmitted to the NRC in a letter dated 8/31/82.

If you have any questions, please contact us.

Very truly yours,

H. W. Keiser  
Vice President-Nuclear Operations

cc: M. J. Campagnone NRC  
R. H. Jacobs NRC

8601280114 860122  
PDR ADDCK 05000387  
P PDR

Adol  
1/1

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY  
5800 S. UNIVERSITY AVENUE  
CHICAGO, ILLINOIS 60637

RECEIVED  
JAN 15 1964

TO THE DIRECTOR  
OF THE UNIVERSITY OF CHICAGO  
FROM THE DEPARTMENT OF CHEMISTRY  
RE: [Illegible]

Yours very truly,  
[Illegible Signature]

# SURVEILLANCE AUTHORIZATION COVER SHEET

S.A. NUMBER: **A31460**

ACTIVITY NUMBER: **Z0125-01**

PROCEDURE NUMBER: **SO-00-018P**

PROCEDURE TITLE: **18 mo TEST NON CONTAINMENT SYS. (PASS)**

DUE DATE:
VIOLATION DATE:

- A. Surveillance procedure authorized to commence, OR
- B. Surveillance procedure included on approved Daily Surveillance Plan AND  Shift Supervision notified of commencement

*[Signature]*      6-29-83      1550  
Shift Supervision Signature, or      DATE      TIME  
Responsible Individual Signature

### REASON FOR PERFORMANCE (Check appropriate block)

- Routine       Event Initiated       LCO Action Statement       Post Maint./Modif. Test
- Other: \_\_\_\_\_

### REMARKS:

NOTE: Unable to leak test analyzer section due to it is all lead shielded + chemistry won't let us take it apart.

Also, unable to leak test DW + wetwell sample supply lines due to it is all insulated + heat traced. All piping connections are welded.

*DJ Steffman*

### RESULTS — EQUIPMENT OPERABILITY

Were any systems/components determined inoperable as a result of performing the procedure or were any acceptance criteria failed?

- NO       YES

If yes, immediately notify Shift Supervision, and complete a Surveillance Retest Cover Sheet prior to continuing on this form.

### EXTENT OF TESTING

- Complete — all testing within scope of procedure was completed under this SA or attached Surveillance Retest
- Partial — see REMARKS for description of completed testing

COMPLETION DATE 6/29/83 1100 Time

Shift Supervision notified of completion

*C. Kraffman*  
RESPONSIBLE INDIVIDUAL SIGNATURE

30 June 83  
DATE

Work Group Closure in Computer Schedule (complete only when "Extent of Testing" is a complete test)

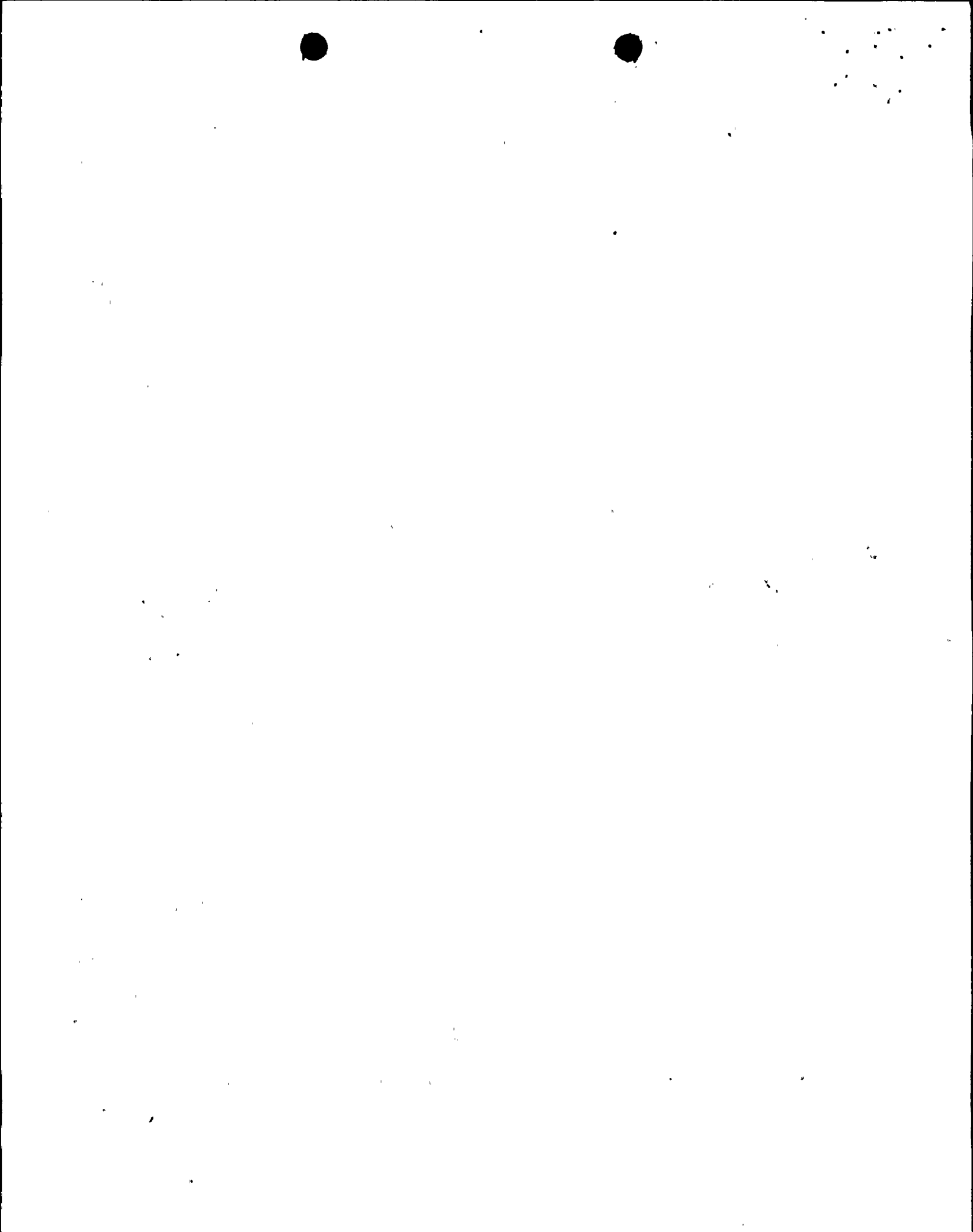
*DJ Steffman*  
SUPERVISOR (FOREMAN SIGNATURE (Approval))

6-30-83  
DATE

*T. D. Shaden*  
QUALITY CONTROL SIGNATURE (review)

7-1-83  
DATE

PMIS Final Closure in Computer Schedule

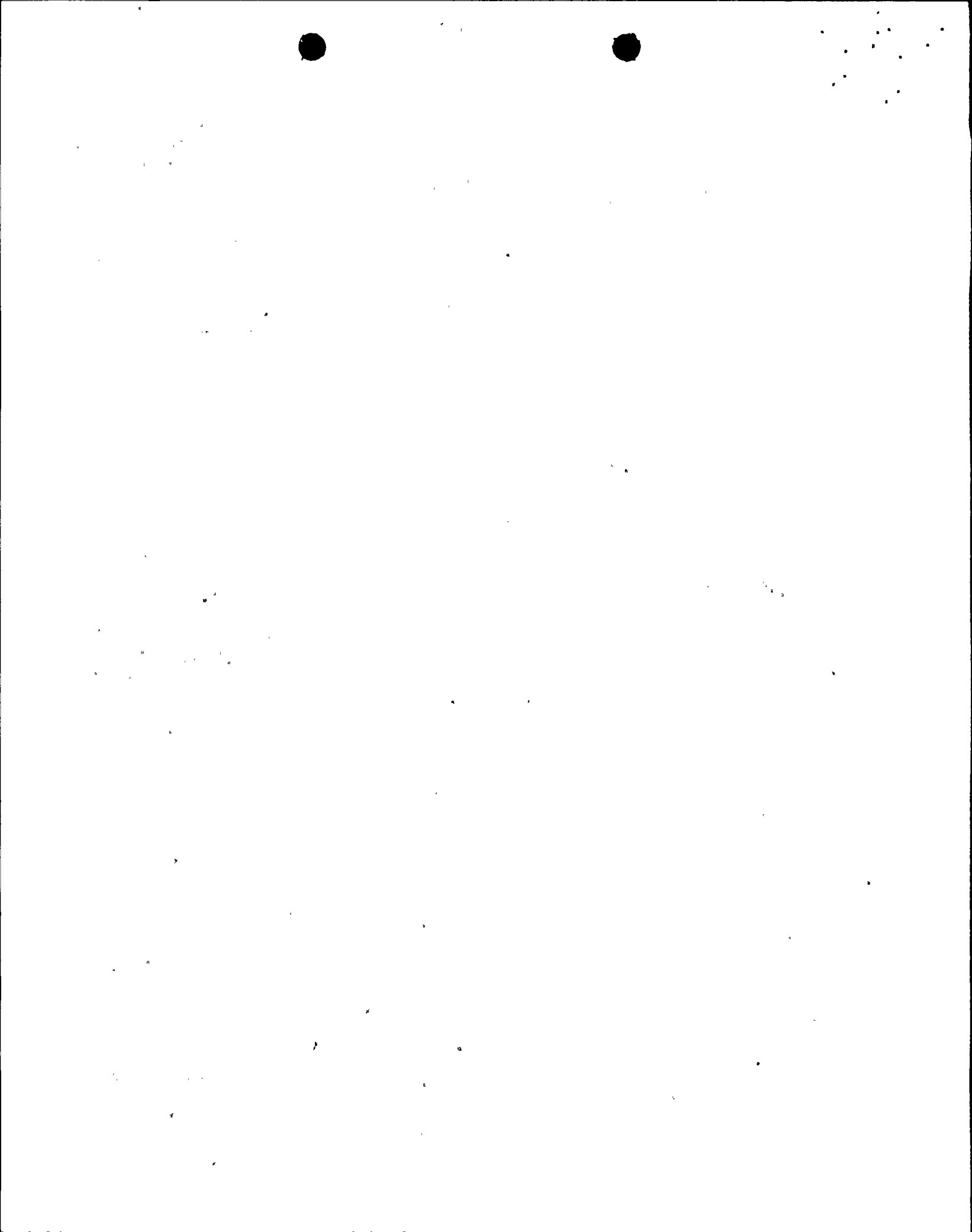


PROCEDURE COVER SHEET

PENNSYLVANIA POWER & LIGHT CO. SUSQUEHANNA STEAM ELECTRIC STATION		SO-00-018 Revision 1.. Page 1 of 9
LEAK TESTING OF SYSTEMS OUTSIDE CONTAINMENT.		
Effective Date <u>5-26-83</u>	Expiration Date <u>5-26-85</u>	
Revised Expiration Date _____		

**CONTROLLED**

Prepared by <u>Donald F. McLean</u>	Date <u>4/20/83</u>
Reviewed by <u>Douglas F. Sittler</u>	Date <u>4/21/83</u>
PORC Review Required Yes <input checked="" type="checkbox"/> No ( )	
Approved by <u>J. J. Blalock Jr.</u> Section Head	Date <u>4/22/83</u>
PORC Meeting Number <u>83-103</u>	Date <u>4/22/83</u>
<u>W. J. Thompson</u> Superintendent of Plant	Date <u>5/3/83</u>





-DATA FORM  
 SO-00-018, Rev. 1  
 LEAK TESTING OF SYSTEMS  
 OUTSIDE CONTAINMENT

ACCEPTANCE CRITERIA

Total Leakage from all Systems is less than or equal to 5 GPM (step 6.2.3)

AS FOUND

0 GPM

INITIAL

DS

There is no visible sign of AIR leakage from the Containment Air Monitoring System (system leakrate acceptable) (step 6.1.5):

YES/NO

DS

REQUIRED ACTION (Acceptance Criteria Not Met)

INITIAL

Notify Shift Supervision that SO-00-018 has failed

\_\_\_\_\_

Shift Supervision shall initiate corrective action to bring leak rate within Acceptance Criterion

\_\_\_\_\_

PROCEDURAL STEPS PERFORMED

6.1.9 Total System Leakage

<u>System</u>	<u>Leakage</u>	<u>Initial</u>
Residual Heat Removal	_____	<u>NA</u>
Reactor Core Isolation Cooling	_____	<u>NA</u>
Core Spray	_____	<u>NA</u>
High Pressure Coolant Inj.	_____	<u>NA</u>
Scram Discharge Volume	_____	<u>NA</u>
Reactor Water Cleanup	_____	<u>NA</u>

6.1.9 Total System Leakage (Continued)

Containment Air Monitors

\_\_\_\_\_

INITIAL

NA

Post Accident Sampling

0 gpm

CHK

6.2.1 System Data Sheets Attached

Residual Heat Removal

NA

Reactor Core Isolation Cooling

NA

Core Spray

NA

High Pressure Coolant Inj.

NA

Scram Discharge Volume

NA

Reactor Water Cleanup

NA

Containment Air Monitors

NA

Post Accident Sampling

DS

6.2.2 Total leakage from all systems is equal  
to 0 gpm.

DS

SYSTEM DATA SHEET  
 SO-00-018, Revision 1

System Name: PASS

P&ID Number: M123 Sh. 5 of 5 Revision 4

INITIAL

System Total Leakage (Step 6.1.6) 0 gpm

MS

MEASUREMENT AND TEST EQUIPMENT USED

<u>Identification Number</u>	<u>Type</u>	<u>Calib. Date</u>	<u>Calib. Due Date</u>
_____	Stopwatch	_____	_____
_____	Stopwatch	_____	_____

PREREQUISITES COMPLETED

AS FOUND

INITIAL

5.1 System to be tested operating at normal pressure

(YES)/NO

MS

5.2 Plant Engr. available for analysis

(YES)/NO

MS

5.3 Reactor Plant in Condition 1,2,3,4 or 5

(YES)/NO

MS

5.4 Sr. Comp. Engr. informed Shift Supervision

(YES)/NO

MS

PROCEDURAL STEPS PERFORMED

INITIAL

(Add additional lines as needed)

6.1.3.e Leakage Location

Rate

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

6.1.4.d Leakage Location

Rate

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6.1.5.c Leakage Location

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6.1.6 Total leakage 6.1.5a + 6.1.5b  
+ 6.1.5c

\_\_\_\_\_

\_\_\_\_\_

6.1.7 Yellowlined P&ID signed

OS

6.1.8 Yellowlined P&ID attached

OS

Unit 2 1st Time

Roll: G 4875  
FRAMES: 367

SO-200-018H

VIOLATION
DATE

Shift Supervision notified of commencement

\_\_\_\_\_  
 of Shift Supervisor Signature, or  
 of Responsible Individual Signature

4/23/84      1450  
 DATE                      TIME

(Check appropriate block)

Event Initiated (describe in remarks)       LCO Action Statement       Post Maint / Modif Test

Other \_\_\_\_\_

TO FORWARD ONE COPY OF THIS SURV TO TECH SECT.

**TESTS - STOPPAGE OF OPERABILITY**

Were any components determined inoperable as a result of performing the test? (Data may indicate acceptance criteria failed?)

YES      If yes, immediately notify Shift Supervision, and complete a Surveillance Test Closure Sheet prior to continuing on this form.

Was testing within scope of procedure completed under this GA or attached Surveillance Test Closure Sheet?

REMARKS (or description of completed testing)

4/24/84      TIME 1520       Shift Supervision notified of completion

\_\_\_\_\_  
 SIGNATURE

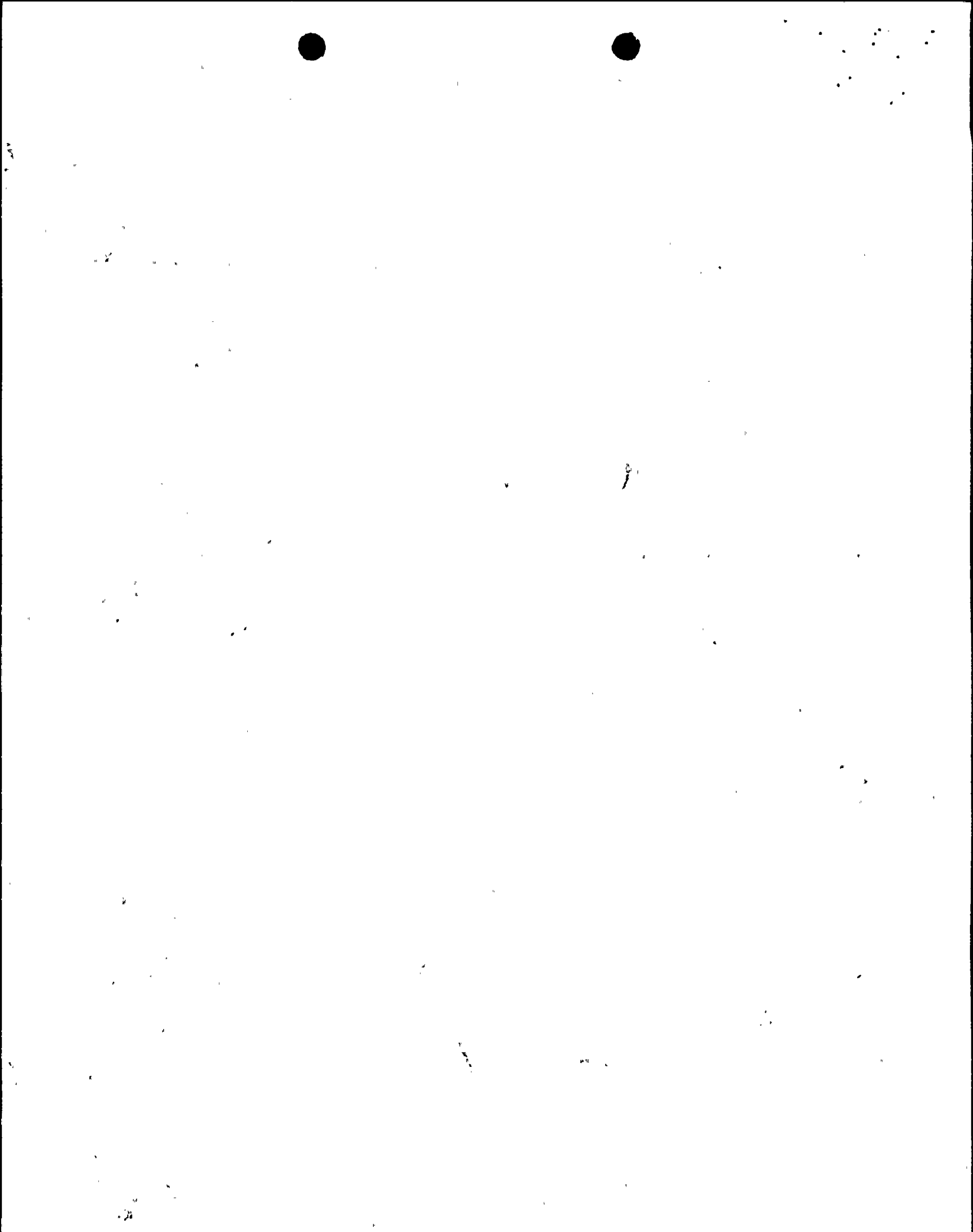
4/24/84  
 DATE

Work Group Closure in Computer Schedule (complete only when "Extent of Testing" is a complete test)

\_\_\_\_\_  
 SIGNATURE

5-4-84  
 DATE

PMIS Final Closure in Computer Schedule



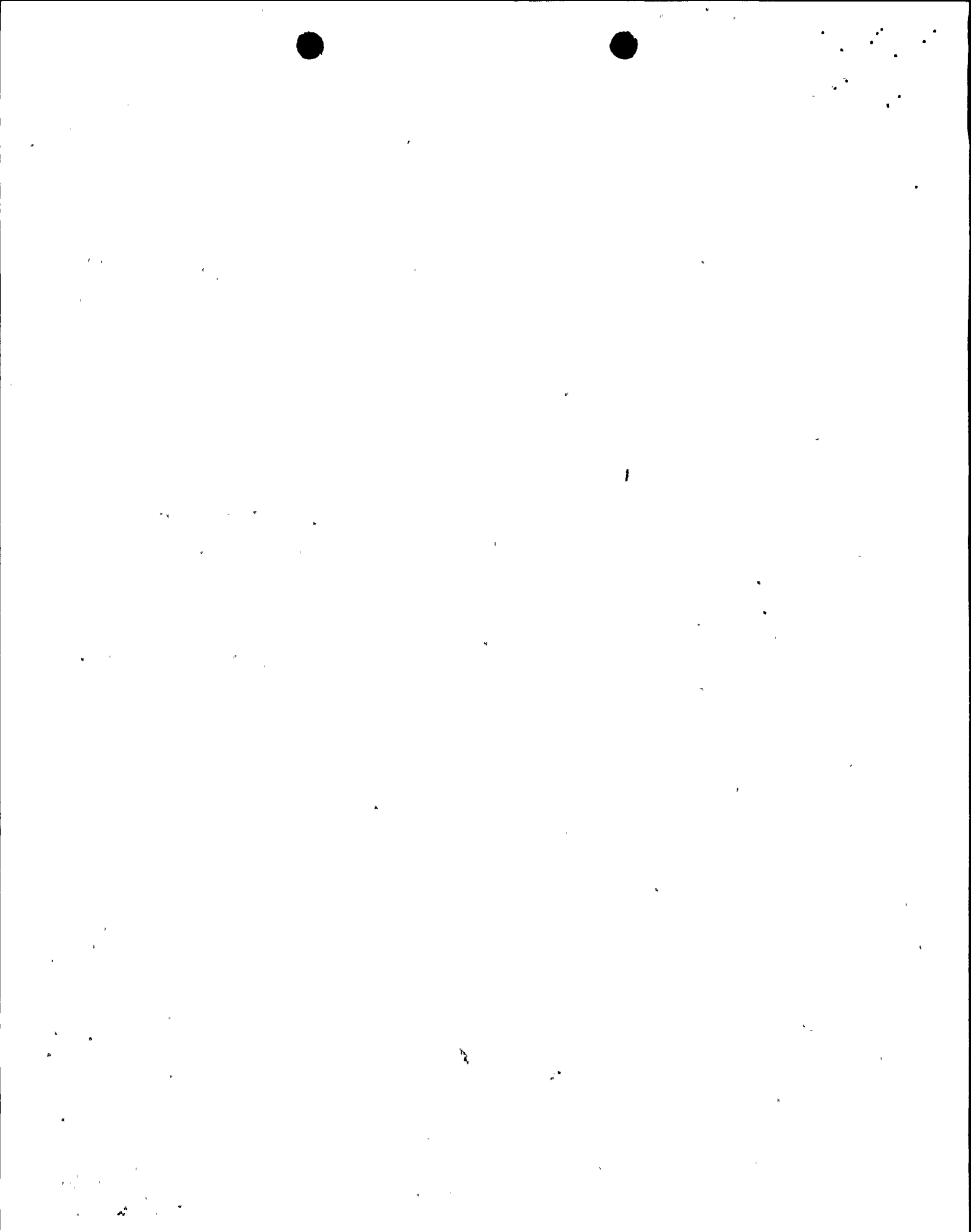
PROCEDURE COVER SHEET

USER CONTROLLED

PENNSYLVANIA POWER & LIGHT CO. SUSQUEHANNA STEAM ELECTRIC STATION		Expiration Date	4/30/85
LEAK TESTING OF SYSTEMS OUTSIDE CONTAINMENT			SO-200-018 Revision 0 Page 1 of 9
Effective Date	11-9-83	Expiration Date	11-1-85
		Revised Expiration Date	
PROCEDURE TYPE:	PORC <input type="checkbox"/> NON-PORC <input type="checkbox"/>	Alternate Review	<input checked="" type="checkbox"/>
PORC MTG. NO.	NA	(If applicable)	

CONTROLLED

Prepared by	<u>Paul Campbell</u>	Date	<u>11/9/83</u>
Reviewed by	<u>Mary J. Perrell</u>	Date	<u>11/15/83</u>
Recommended:	<u>H. J. Palmer</u> Section Head/Manager	Date	<u>11/15/83</u>
	<u>[Signature]</u> Superintendent of Plant	Date	<u>          </u>





DATA FORM  
 SO-200-018, Rev. 0  
 LEAK TESTING OF SYSTEMS  
 OUTSIDE CONTAINMENT

<u>ACCEPTANCE CRITERIA</u>	<u>AS FOUND</u>	<u>INITIAL</u>
Total Leakage from all Systems is less than or equal to 5 GPM (step 6.2.3)	_____ GPM	_____
There is no visible sign of AIR leakage from the Containment Air Monitoring System (system leakrate acceptable) (step 6.1.5)	YES/NO	_____

REQUIRED ACTION (Acceptance Criteria Not Met)

Notify Shift Supervision that SO-200-018 has failed

Shift Supervision shall initiate corrective action to bring leak rate within Acceptance Criterion

PROCEDURAL STEPS PERFORMED

6.1.9 Total System Leakage

<u>System</u>	<u>Leakage</u>	<u>Initial</u>
Residual Heat Removal	_____	_____
Reactor Core Isolation Cooling	_____	_____
Core Spray	_____	_____
High Pressure Coolant Inj.	_____	_____
Scram Discharge Volume	_____	_____
Reactor Water Cleanup	_____	_____

84139120373

6.1.9 Total System Leakage (Continued)

INITIAL

Containment Air Monitors

\_\_\_\_\_  
0

Jrc

Post Accident Sampling

6.2.1 System Data Sheets Attached

Residual Heat Removal

\_\_\_\_\_

Reactor Core Isolation Cooling

\_\_\_\_\_

Core Spray

\_\_\_\_\_

High Pressure Coolant Inj.

\_\_\_\_\_

Scram Discharge Volume

\_\_\_\_\_

Reactor Water Cleanup

\_\_\_\_\_

Containment Air Monitors

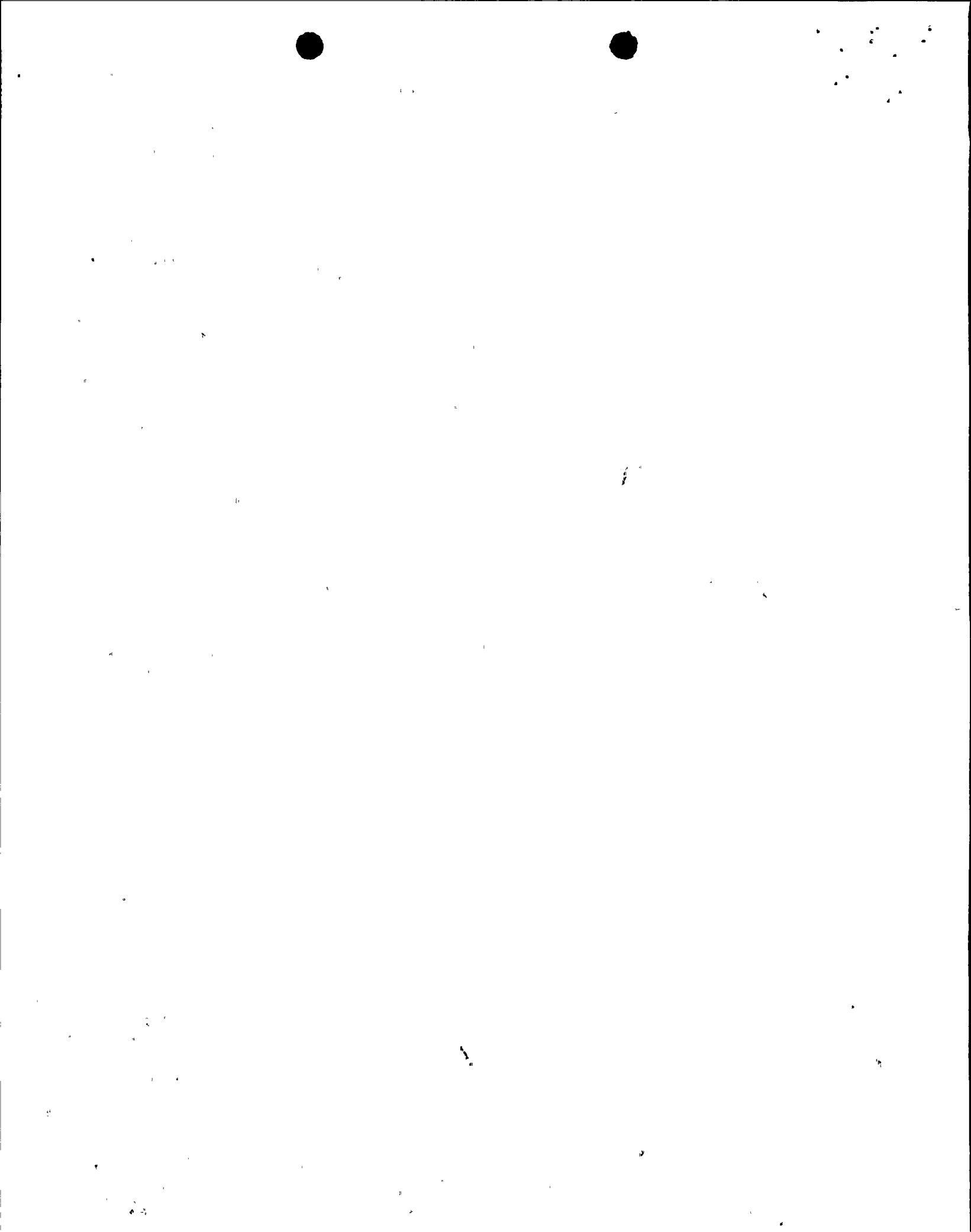
\_\_\_\_\_

Post Accident Sampling

Jrc

6.2.2 Total leakage from all systems is equal  
to \_\_\_\_\_ gpm.

N/k



SYSTEM DATA SHEET  
SO-200-018, Revision 0

System Name: RETHERM SMOKE TEST

P&ID Number: M2123 Revision 6

System Total Leakage (Step 6.1.6) 0 gpm

INITIAL

JMS

MEASUREMENT AND TEST EQUIPMENT USED

Identification Number	Type	Calib. Date	Calib. Due Date
_____	Stopwatch	_____	_____
_____	Stopwatch	_____	_____

PREREQUISITES COMPLETED

AS FOUND

5.1 System to be tested operating at normal pressure

(YES)/NO

5.2 Plant Engr. available for analysis

(YES)/NO

5.3 Reactor Plant in Condition 1,2,3,4 or 5

(YES)/NO

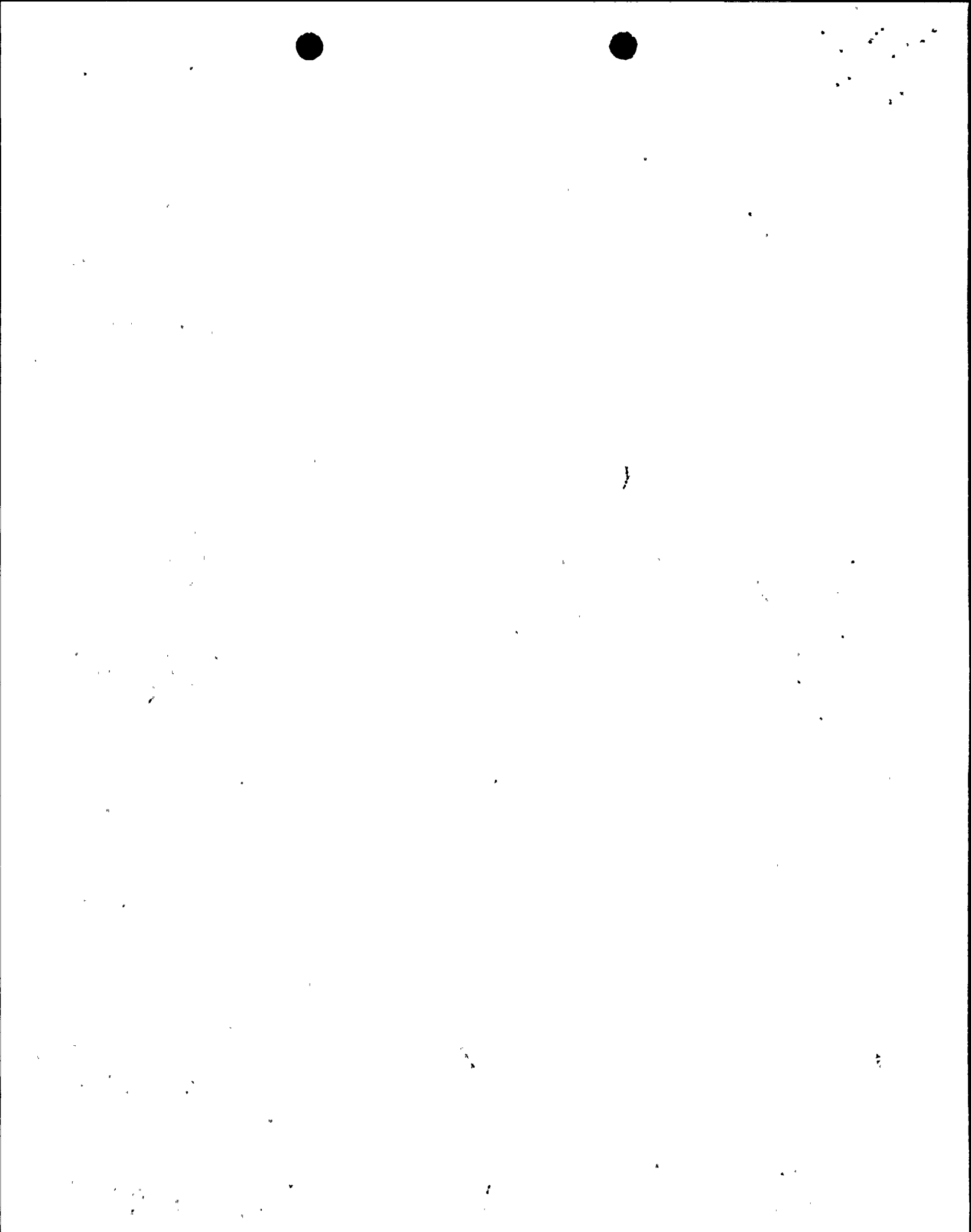
PROCEDURAL STEPS PERFORMED

INITIAL

(Add additional lines as needed)

6.1.3.e Leakage Location Rate

_____	_____
_____	_____
_____	_____



6.1.4.d Leakage Location

Rate

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

6.1.5.c Leakage Location

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

6.1.6 Total leakage 6.1.5a + 6.1.5b + 6.1.5c

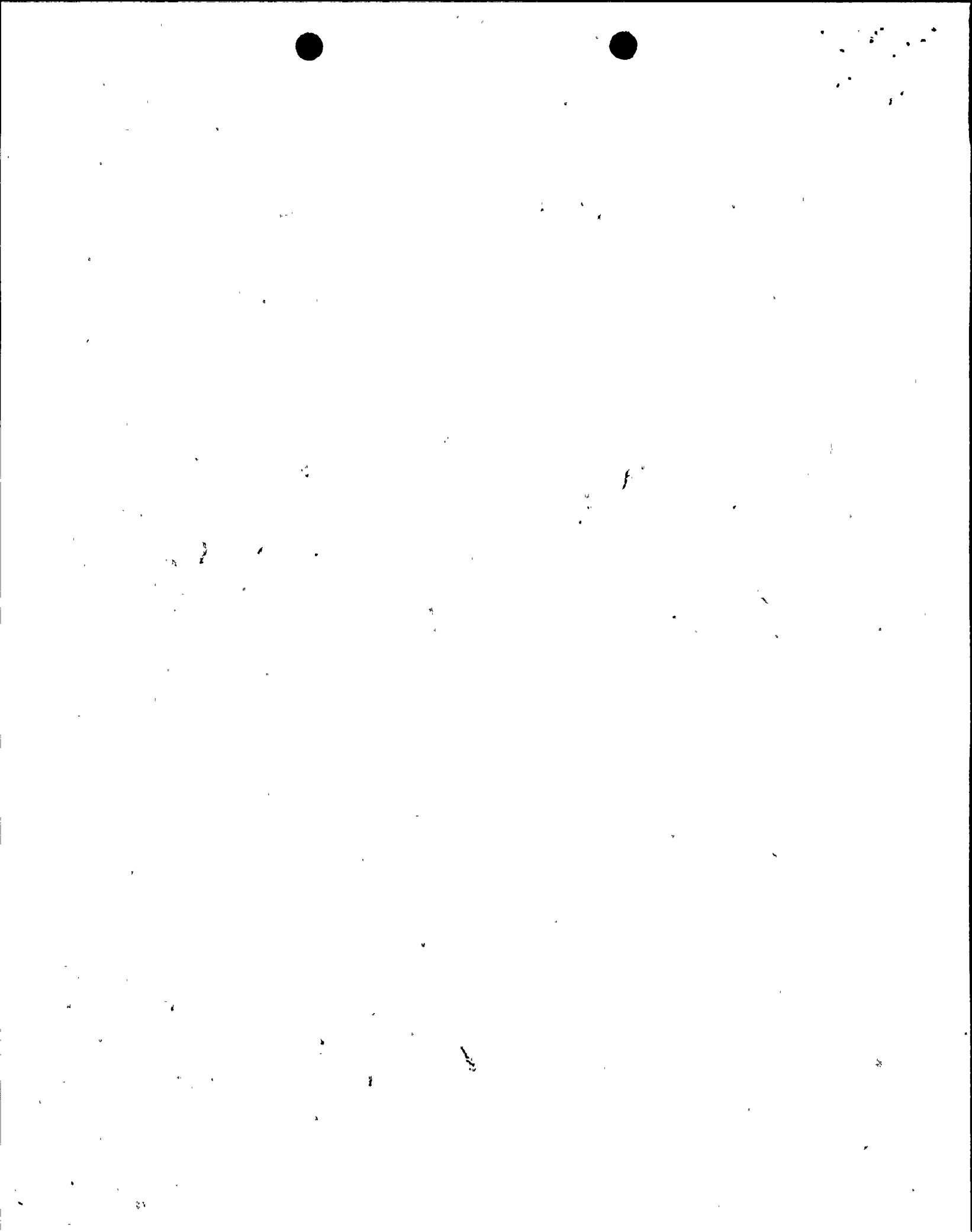
\_\_\_\_\_

*1.0E*

6.1.7 Yellowlined P&ID signed

6.1.8 Yellowlined P&ID attached

*[Handwritten signature]*  
*[Handwritten signature]*



NOV 6

**CRIME**

CONNECTED CIVIL ENGINEERING  
FIRM FOR N-10768.

CONNECTED CIVIL ENGINEERING  
FIRM FOR N-10768.

CONNECTED CIVIL ENGINEERING  
FIRM FOR N-10768.

CONNECTED CIVIL ENGINEERING  
FIRM FOR N-10768.

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FIRM FOR N-10768.

CONNECTED CIVIL ENGINEERING  
FIRM FOR N-10770.

NOV 11 84

**USER CONTROLLED**

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---







January 21, 1986

*Docket file*  
DISTRIBUTION w/o Enclosure

Docket File ✓  
BWR#3 Reading  
EHylton (2)  
MCampagnone

DOCKET NO(S). 50-387/388  
Mr. Harold W. Keiser  
Vice President  
Nuclear Operations  
Pennsylvania Power & Light Company  
2 North Ninth Street  
Allentown, Pennsylvania 18101  
SUBJECT:

The following documents concerning our review of the subject facility are transmitted for your information.

- Notice of Receipt of Application, dated \_\_\_\_\_.
- Draft/Final Environmental Statment, dated \_\_\_\_\_.
- Notice of Availability of Draft/Final Environmental Statement, dated \_\_\_\_\_.
- Safety Evaluation Report, or Supplement No. \_\_\_\_\_, dated \_\_\_\_\_.
- Notice of Hearing on Application for Construction Permit, dated \_\_\_\_\_.
- Notice of Consideration of Issuance of Facility Operating License, dated \_\_\_\_\_.
- Monthly Notice; Applications and Amendments to Operating Licenses Involving no Significant Hazards Considerations, dated Oct. 23, Nov. 6 & 20, and Dec. 18, 1985 *and Dec. 30, 1985 and Jan. 15, 1986*
- Application and Safety Analysis Report, Volume \_\_\_\_\_.
- Amendment No. \_\_\_\_\_ to Application/SAR dated \_\_\_\_\_.
- Construction Permit No. CPPR- \_\_\_\_\_, Amendment No. \_\_\_\_\_ dated \_\_\_\_\_.
- Facility Operating License No. \_\_\_\_\_, Amendment No. \_\_\_\_\_, dated \_\_\_\_\_.
- Order Extending Construction Completion Date, dated \_\_\_\_\_.
- Other (Specify) \_\_\_\_\_

Office of Nuclear Reactor Regulation

Enclosures:  
As stated

cc: See next page

OFFICE	BWR#3						
SURNAME	<i>EHylton</i>						
DATE	12/.../85						

1954

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