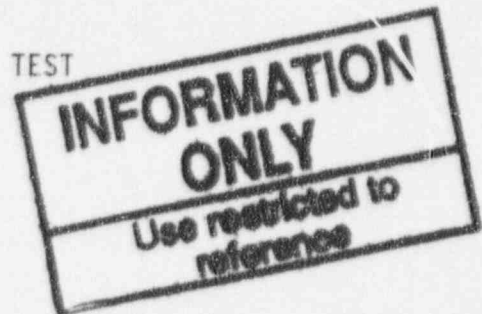


## PILGRIM NUCLEAR POWER STATION

Procedure No. 8.7.3

## SECONDARY CONTAINMENT LEAK RATE TEST

REQUIRED REVIEWS

Stop  
Think  
Act  
Review

MSTP RELATED

QC REVIEW REQUIRED

SAFETY REVIEW REQUIRED

ORC REVIEW REQUIRED

REVIEWERS AND APPROVERS

<u>J. Di Cristofaro</u>	<u>11/9/94</u>
Procedure Writer	Date
<u>H. H. H. H.</u>	<u>11/14/94</u>
Technical Reviewer	Date
<u>J. J. J. J.</u>	<u>11/16/94</u>
Validator	Date
<u>HW</u>	<u>11/18/94</u>
Procedure Owner	Date
<u>NIA</u>	
QAD Manager	Date
<u>J. J. J. J.</u>	<u>11/18/94</u>
ORC Chairman	Date
<u>J. J. J. J.</u>	<u>11/18/94</u>
Responsible Manager	Date

Effective Date: 11/18/94

## 1.0 PURPOSE AND SCOPE

This Procedure provides instructions for performing the secondary containment leak rate test to prove compliance with Technical Specifications Section 4.7.C.1.c.

## 2.0 REFERENCES

### 2.1 DEVELOPMENTAL

#### [1] Design Changes

- (a) PDC 85-14, Reactor Building Secondary Containment Isolation Dampers
- (b) PDC 86-70, Standby Gas Treatment System Modifications
- (c) PDC 88-53, Reactor Building Trucklock Door Mechanical Seal
- (d) PDC 93-03-81, Deleting Inner Trucklock Door Inflatable Seal

#### [2] FSAR Section 5.3

#### [3] NED Memo #84-038, corresponds to FS&MC Memo #84-015

#### [4] NRC resolved concern, UNR 83-23-02

#### [5] P&IDs

- (a) M-280, Heating and Ventilation
- (b) M-287, Plant Ventilation
- (c) M-321, Fan Room No. 1
- (d) M-322, H&V and AC Fan Room No. 3 and 2
- (e) M-323, H&V and AC Temperature Controls

#### [6] PCAQ NED 88-165

#### [7] PDC 87-78F, Improvements to Labels, Nameplates on Main Control Room Panels

#### [8] PR 93.0492, Math Errors in PNPS 8.7.3

#### [9] PR 93.9122, SBT MON-109 & 113 QMR RCG Poten Not Done

#### [10] QAD Audit 93-08 recommendations (RR 93.0324)

#### [11] Technical Specifications Section 4.7.C.1.c, Table 6.9.1

## 2.2 IMPLEMENTING

### [1] PNPS Procedures

- (a) 1.3.34, "Conduct of Operations"
- (b) 2.2.50, "Standby Gas Treatment"
- (c) 2.2.78, "Reactor Building Trucklock Doors"
- (d) 2.2.125.1, "Primary and Secondary Containment Isolation Reset"
- (e) 8.7.3.1, "Inspection of Secondary Containment Dampers"

## 3.0 DEFINITIONS

None

## 4.0 DISCUSSION

This Procedure should be performed at each refueling outage prior to refueling as required by Technical Specifications Section 4.7.C.1.c, or as required for postwork testing.

Additional testing was performed during the first operating cycle under various wind conditions to enable valid extrapolation of test results.

NESD performed an evaluation of PNPS 8.7.3, Revision 12, in early 1984 (FS&MC 84-015) which was transmitted by Memo NED 84-38 (LOC 1468-0852). The evaluation found that the Procedure was adequate and that the practice of obtaining baseline readings and utilizing them to correct for initial conditions is valid provided that the baseline readings are kept within certain limits. These values should not be exceeded at wind speeds equal to or less than 15 MPH. The results from the Leak Rate Test performed at wind speeds up to 15 MPH with the manometer readings corrected for baseline conditions within  $\pm 0.1$ " WG of zero are at least equivalent to performing the test under calm (less than 5 MPH) conditions.

## 5.0 SPECIAL TOOLS AND EQUIPMENT

- [1] Keys for test switches "RBIS TEST LOGIC/TRIP" CR26, CR27
- [2] Communications equipment

## 6.0 PRECAUTIONS AND LIMITATIONS

- [1] Do not draw over 1 inch H<sub>2</sub>O vacuum across the Reactor Building.
- [2] If this test is performed during reactor power operation, do not keep the Reactor Building isolated longer than 10 minutes as the main steam tunnel temperature will start to rise.
- [3] A reading to the right of zero (downward) on the manometers is negative. Manometers have been labeled to remind the users of this convention.
- [4] The average base line reading outside of 0 (-0.1 to +0.1) inches H<sub>2</sub>O indicates test results could be influenced and test should not be conducted until condition is corrected.
- [5] This test involves mathematics with positive and negative numbers. Pay close attention to the positive or negative sign convention when performing calculations [PR 93.0492].

## 7.0 PREREQUISITES

- [1] NWE's permission to perform test.

B. Lewis for P.E. Mastrangelo	11/19/94	2213
NWE	Date	Time

Initials

- [2] Turbine Building should be at a slight negative pressure (-0.1 to -0.2 inches H<sub>2</sub>O) as read at manometers at C60.

Turbine Building Relative Pressure sign ( - ) .12 in. H<sub>2</sub>O

Condenser Bay Relative Pressure sign ( - ) .14 in. H<sub>2</sub>O

- [3] Standby Gas perforated plate  $\Delta P$  instruments 48-DPI-AA-22 and 48-DPI-AA-32 calibrated.

M.M.

- [4] All Reactor Building manometers filled and zeroed.

M.M.

- [5] At least one door at each access closed.

M.M.

- [6] Standby Gas Treatment System operable.

M.M.

- [7] All automatic ventilation system isolation dampers operable or secured in the isolated condition.

M.M.

- [8] Secondary containment checkoff list (Attachment 1) considered and accepted.

M.M.

## 7.0 PREREQUISITES (Continued)

Initials

[9] Specific purpose for test performance:

- ☐ Routine test prior to fuel handling
- ☒ Postmaintenance testing on Reactor Building
- ☐ Other: \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

\_\_\_\_\_  
J.B.  
\_\_\_\_\_

[10] A Pre-Evolution briefing in accordance with PNPS 1.3.34 is required according to the NWE. Briefing sheets shall be attached to this Procedure when completed.

☒ Yes ☐ No

\_\_\_\_\_  
B.L.  
NWE

[11] Names of personnel involved with test:

Name	Initials	Name	Initials
J. Byron	J.B.	K. Haskell	K.H.
W. Joyce	W.J.	R. Weygand	R.W.
T. Hatch	T.H.	J. Barraclough	J.B.
B. Lewis	B.L.	R. German	R.G.
K. O'Rourke	K.O'R		

## 8.0 PROCEDURE

### 8.1 INITIAL AND AMBIENT CONDITIONS

[1] **RECORD** meteorological data:

Wind speed 7 MPH 33' Met Tower

Wind speed shall be less than 15 MPH or test should not be performed.

Wind direction W 33' Met Tower

Outside air temperature +44 °F 33' Met Tower

Reactor Building temperature 76 °F Any convenient Rx Bldg location

8.1 INITIAL AND AMBIENT CONDITIONS (Continued)

Initials

[2] VERIFY OR POSITION as required the SGTS as follows:

<u>TRAIN A</u>		<u>SWITCH POSITION</u>	<u>DAMPER POSITION</u>	
AO-N-99	TRAIN A INLET DMPR	AUTO	CLOSED	<u>J.B.</u>
AO-N-108	TRAIN A OUTL DMPR	AUTO	CLOSED	<u>J.B.</u>
AO-N-135	OUTLET CROSS CONNECT DAMPER	OPEN	OPEN	<u>J.B.</u>
AO-N-136	INLET CROSS CONNECT DAMPER	OPEN	OPEN	<u>J.B.</u>
AO-N-98	CONTAMINATED EXH PLENUM DMPR	AUTO	OPEN	<u>J.B.</u>
AO-N-138	REFUEL FLR EXH DIVERT DMPR	AUTO	CLOSED	<u>J.B.</u>
 <u>TRAIN B</u>				
AO-N-106	TRAIN B INLET DMPR	AUTO	CLOSED	<u>J.B.</u>
AO-N-112	TRAIN B OUTL DMPR	AUTO	CLOSED	<u>J.B.</u>
AO-N-101	REFUEL FLR EXH PLENUM DAMPER	AUTO	CLOSED	<u>J.B.</u>
AO-N-137	CONTAMINATED EXH DIVERT DMPR	AUTO	CLOSED	<u>J.B.</u>

## 8.1 INITIAL AND AMBIENT CONDITIONS (Continued)

Checkoff

- [3] CLOSE the outer Reactor Building Trucklock door AND INFLATE the seal in accordance with PNPS 2.2.78. [ x]
- [4] OPEN the inner Reactor Building Trucklock door in accordance with PNPS 2.2.78. [ x]
- [5] PLACE hand switches for both STANDBY GAS FANs A and B, VEX-210A and VEX-210B (Panel C7), in the "OFF" position. [ x]

### CAUTION

When the test switches are tripped, the signal will seal-in and the Reactor Building will remain isolated. The SGTS fans will not start until manipulated by this Procedure and no forced ventilation will exist. An SGTS trouble alarm may come in and not reset until completion of this test.

- [6] SIMULTANEOUSLY TURN both keylocked RBIS TEST LOGIC/TRIP switches on Panel C7 to the "ISOLATE" position. [ x]
  - (a) ALLOW 3 minutes for stabilization AND TAKE base readings on the four manometers in the Reactor Building elevation 91' AND the two manometers in the Turbine Building elevation 51' next to C60 panel.
  - (b) RECORD base manometer readings:  
Manometer  $\Delta P$  Reactor Building El. 91' locations  
North sign ( + ) .12 in. H<sub>2</sub>O  
East sign ( + ) .10 in. H<sub>2</sub>O  
West sign ( + ) .04 in. H<sub>2</sub>O  
South sign ( + ) .13 in. H<sub>2</sub>O  
Average sign ( + ) .0975 in. H<sub>2</sub>O  
Acceptable band for average baseline is between -0.1 to +0.1 inches H<sub>2</sub>O
  - (c) Turbine building pressures:  
C60 manometer sign ( - ) .12 in. H<sub>2</sub>O  
Condenser B.y sign ( - ) .14 in. H<sub>2</sub>O  
Turbine Building pressure should be slightly negative -0.2 to -0.1 inches H<sub>2</sub>O

8.1 INITIAL AND AMBIENT CONDITIONS (Continued)

Checkoff

- [7] OBSERVE which Reactor Building fans were operating, THEN TURN all Reactor Building fan switches on Panel C61 to the "OFF" position.

[ x ]

- [8] PLACE the fan control switch (on Panel C7) for VEX-210A (STANDBY GAS FAN A) in the "AUTO" position. LEAVE the control switch for VEX-210B (STANDBY GAS FAN B) in the "OFF" position.

[ x ]

- [9] VERIFY dampers AO-N-99 AND AO-N-108 reposition to the OPEN position.

[ x ]

- [10] REGULATE MO-N-109 (STANDBY GAS FAN A OUTLET DAMPER) as required such that flow is maximized but does not exceed 4000 CFM. USE STANDBY GAS TREATMENT COMMON OUTLET FLOW FI-8126/FI-8127 for indication.

[ x ]

- [11] ALLOW the manometers to stabilize AND RECORD the following:

Data set for outer trucklock door closed and seal inflated, inner trucklock door open. SGTS Train A.

Manometer stabilization time 4 min.

"A" SGTS perforated plate  $\Delta P$

1.425

48-DPI-AA-22 1.425 T.H. inches H<sub>2</sub>O

\*\*\*

Flow from 48-DPI-AA-22 and curve Attachment 2 3800 CFM  
[Acceptance Criteria less than or equal to 4000 CFM]

Flow indicator data Panel C7: STANDBY GAS TREATMENT COMMON OUTLET FLOW  
FI-8126/8127 3850 / 3900 CFM  
[data for comparison only]

\*\*\*Refer to Page 16 of 24 Acceptance Verification and Signoff



## 8.1 INITIAL AND AMBIENT CONDITIONS (Continued)

- [12] **RECORD** Reactor Building manometer readings **AND CALCULATE** corrected building  $\Delta P$ :

	Test Data	minus	Avg Base Reading Step 8.1[6](b)	equals	Corrected Bldg dP
North	sign ( - ) .44 in. H <sub>2</sub> O	-	sign ( + ) .0975	=	sign ( - ) .5375 in. H <sub>2</sub> O
East	sign ( - ) .48 in. H <sub>2</sub> O	-	sign ( + ) .0975	=	sign ( - ) .5775 in. H <sub>2</sub> O
West	sign ( - ) .50 in. H <sub>2</sub> O	-	sign ( + ) .0975	=	sign ( - ) .5975 in. H <sub>2</sub> O
South	sign ( - ) .40 in. H <sub>2</sub> O	-	sign ( + ) .0975	=	sign ( - ) .4975 in. H <sub>2</sub> O
Average corrected building $\Delta P$					sign ( - ) .552 in. H <sub>2</sub> O

Calc performed by B. Lewis

Calc checked by M. Mantenfel

[Acceptance Criteria less than or equal to -0.25 in. H<sub>2</sub>O]

### Checkoff

- |      |  |       |
|------|--|-------|
| [13] | <b>PLACE</b> the fan control switch (on Panel C7) for VEX-210A (STANDBY GAS FAN A) in the "OFF" position.  | [ X ] |
| [14] | <b>CLOSE</b> the inner Reactor Building Trucklock door in accordance with PNPS 2.2.78.   | [ X ] |
| [15] | <b>VERIFY LOCKED/LOCK</b> the personnel pass door in the inner Reactor Building Trucklock Door.  | [ X ] |
| [16] | <b>OPEN</b> the outer Reactor Building Trucklock door.<br>[PCAQ NED 88-165]  | [ X ] |
| [17] | <b>PLACE</b> the fan control switch (on Panel C7) for VEX-210A (STANDBY GAS FAN A) in the "AUTO" position. <b>LEAVE</b> the control switch for VEX-210B (STANDBY GAS FAN B) in the "OFF" position. | [ X ] |
| [18] | <b>REGULATE</b> MO-N-109 (STANDBY GAS FAN A OUTLET DAMPER) as required such that flow is maximized, but does not exceed 4000 CFM (on FI-8126 or FI-8127).  | [ X ] |

## 8.1 INITIAL AND AMBIENT CONDITIONS (Continued)

- [19] ALLOW the manometers to stabilize **AND RECORD** the following:

Data set for outer trucklock door open and inner trucklock door closed. SGTS Train A.

Manometer stabilization time 4 min.

"A" SGTS perforated plate  $\Delta P$

48-DPI-AA-22 <sup>1.425</sup>~~.425~~ T.H. inches H<sub>2</sub>O

Flow from 48-DPI-AA-22 and curve Attachment 2 3800 CFM  
[Acceptance Criteria less than or equal to 4000 CFM]

Flow indicator data Panel C7: STANDBY GAS TREATMENT COMMON OUTLET FLOW  
FI-8126/8127 3850 / 3900 CFM  
[data for comparison only]

- [20] RECORD Reactor Building manometer readings **AND CALCULATE** corrected building  $\Delta P$ :

<u>Test Data</u>		<u>Avg Base Reading</u> minus <u>Step 8.1[6](b)</u>		<u>Corrected</u> Bldg $\Delta P$	
North	<u>sign (-) .42 in. H<sub>2</sub>O</u>	-	<u>sign (+) .0975</u>	=	<u>sign (-) .5175 in. H<sub>2</sub>O</u>
East	<u>sign (-) .48 in. H<sub>2</sub>O</u>	-	<u>sign (+) .0975</u>	=	<u>sign (-) .5775 in. H<sub>2</sub>O</u>
West	<u>sign (-) .50 in. H<sub>2</sub>O</u>	-	<u>sign (+) .0975</u>	=	<u>sign (-) .5975 in. H<sub>2</sub>O</u>
South	<u>sign (-) .43 in. H<sub>2</sub>O</u>	-	<u>sign (+) .0975</u>	=	<u>sign (-) .5275 in. H<sub>2</sub>O</u>
Average corrected building $\Delta P$					<u>sign (-) .555 in. H<sub>2</sub>O</u>

Calc performed by B. Lewis

Calc checked by M. Mantenfel  
[Acceptance Criteria less than or equal to -0.25 in. H<sub>2</sub>O]

Checkoff

- [21] PLACE the fan control switch (on Panel C7) for VEX-210A (STANDBY GAS FAN A) in the "OFF" position.

[X]

- [22] VERIFY the damper control switches (on Panel C7) for AO-N-99 (TRAIN A INLET DMPR) **AND** AO-N-108 (TRAIN A OUTLET DMPR) in the "AUTO" position and the dampers indicate CLOSED.

[X]

\*\*\*Refer to Page 16 of 24 Acceptance Verification and Signoff

# 8.1 INITIAL AND AMBIENT CONDITIONS (Continued)

Checkoff

- [23] PLACE the fan control switch (on Panel C7) for VEX-210B (STANDBY GAS FAN B) in the "MAINT" position. LEAVE the control switch for VEX-210A (STANDBY GAS FAN A) in the "OFF" position. [ X]
- [24] VERIFY dampers AO-N-106 (TRAIN B INLET DMPR) AND AO-N-112 (TRAIN B OUTL DMPR) reposition to the OPEN position. [ X]
- [25] REGULATE MO-N-113 (STANDBY GAS FAN B OUTLET DAMPER) as required such that flow is maximized but does not exceed 4000 CFM. USE STANDBY GAS TREATMENT COMMON OUTLET FLOW FI-8126/FI-8127 for indication. [ X]

- [26] ALLOW the manometers to stabilize AND RECORD the following:

Data set for outer trucklock door open and inner trucklock door closed. SGTS Train B.

Manometer stabilization time 4 min.

"B" SGTS perforated plate  $\Delta P$

\*\*\* 48-DPI-AA-32 1.45 ~~.45~~ T.H. inches H<sub>2</sub>O

Flow from 48-DPI-AA-32 and curve Attachment 3 3850 CFM  
[Acceptance Criteria less than or equal to 4000 CFM]

Flow indicator data Panel C7: STANDBY GAS TREATMENT COMMON OUTLET FLOW  
FI-8126/8127 3950 / 3900 CFM  
[data for comparison only]

- [27] RECORD Reactor Building manometer readings AND CALCULATE corrected building  $\Delta P$ :

	Test Data	minus	Avg Base Reading Step [6](b)	equals	Corrected Bldg $\Delta P$
North	sign (-) .43 in. H <sub>2</sub> O	-	sign (+) .0975	=	sign (-) .5275 in. H <sub>2</sub> O
East	sign (-) .48 in. H <sub>2</sub> O	-	sign (+) .0975	=	sign (-) .5775 in. H <sub>2</sub> O
West	sign (-) .52 in. H <sub>2</sub> O	-	sign (+) .0975	=	sign (-) .6175 in. H <sub>2</sub> O
South	sign (-) .42 in. H <sub>2</sub> O	-	sign (+) .0975	=	sign (-) .5175 in. H <sub>2</sub> O
Average corrected building $\Delta P$					sign (-) .56 in. H <sub>2</sub> O

Calc performed by B. Lewis

Calc checked by M. Mantenfel  
[Acceptance Criteria less than or equal to -0.25 in. H<sub>2</sub>O]

8.1 INITIAL AND AMBIENT CONDITIONS (Continued)

Checkoff

- [28] PLACE the fan control switch (on Panel C7) for VEX-210B (STANDBY GAS FAN B) in the "OFF" position. [x]
- [29] CLOSE the outer Reactor Building Trucklock door AND INFLATE the seal in accordance with PNPS 2.2.78. [x]
- [30] OPEN the inner Reactor Building Trucklock door in accordance with PNPS 2.2.78. [x]
- [31] PLACE the fan control switch (on Panel C7) for VEX-210B (STANDBY GAS FAN B) in the "MAINT" position. LEAVE the control switch for VEX-210A (STANDBY GAS FAN A) in the "OFF" position. [x]
- [32] REGULATE MO-N-113 (STANDBY GAS FAN B OUTLET DAMPER) as required such that flow is maximized but does not exceed 4000 CFM (on FI-8126 or FI-8127). [x]
- [33] ALLOW the manometers to stabilize AND RECORD the following:

Data set for outer trucklock door closed with seal inflated and inner trucklock door open.  
SGTS Train B.

Manometer stabilization time 4 min.

"B" SGTS perforated plate  $\Delta P$

\*\*\* 48-DPI-AA-32 1.45 ~~4.5~~ T.H. inches H<sub>2</sub>O

Flow from 48-DPI-AA-32 and curve Attachment 3 3850 CFM  
[Acceptance Criteria less than or equal to 4000 CFM]

Flow indicator data Panel C7: STANDBY GAS TREATMENT COMMON OUTLET FLOW  
FI-8126/8127 3950 / 3900 CFM  
[data for comparison only]

\*\*\*Refer to Page 16 of 24 Acceptance Verification and Signoff

# 8.1 INITIAL AND AMBIENT CONDITIONS (Continued)

- [34] **RECORD** Reactor Building manometer readings **AND CALCULATE** corrected building  $\Delta P$ :

<u>Test Data</u>		<u>minus</u>	<u>Avg Base Reading</u> <u>Step [6](b)</u>	<u>equals</u>	<u>Corrected</u> <u>Bldg dP</u>
North	<u>sign ( - ) .47 in. H<sub>2</sub>O</u>	-	<u>sign ( + ) .0975</u>	=	<u>sign ( - ) .5675 in. H<sub>2</sub>O</u>
East	<u>sign ( - ) .52 in. H<sub>2</sub>O</u>	-	<u>sign ( + ) .0975</u>	=	<u>sign ( - ) .6175 in. H<sub>2</sub>O</u>
West	<u>sign ( - ) .54 in. H<sub>2</sub>O</u>	-	<u>sign ( + ) .0975</u>	=	<u>sign ( - ) .6375 in. H<sub>2</sub>O</u>
South	<u>sign ( - ) .49 in. H<sub>2</sub>O</u>	-	<u>sign ( + ) .0975</u>	=	<u>sign ( - ) .5875 in. H<sub>2</sub>O</u>
Average corrected building $\Delta P$					<u>sign ( - ) .6025 in. H<sub>2</sub>O</u>

Calc performed by B. Lewis

Calc checked by M. Mantenfel

[Acceptance Criteria less than or equal to -0.25 in. H<sub>2</sub>O]

## Checkoff

- [35] **PLACE** the fan control switch on Panel C7 for VEX-210B (STANDBY GAS FAN B) in the "OFF" position. [ X]
- [36] **CLEAR** the RBIS (secondary containment isolation) as follows:
- (a) **PLACE** both RBIS TEST LOGIC/TRIP switches on Panel C7 to the "STANDBY" position. **REMOVE** keys CR26 and CR27. [ X]
- (b) **USE** keys CR24 and CR25 to reset the trip with the RBIS TRIP RESET switches on Panel C7. [ X]
- [37] **RESET** the secondary containment isolation in accordance with PNPS 2.2.125.1. (This will also restore Reactor Building ventilation.) [ X]

## NOTE

Steps [38] and [39] satisfy qualification maintenance requirements for MO-N-109 and MO-N-113. [PR 93.9122]

- [38] At Panel C7, **CYCLE** MO-N-109 CLOSED, **THEN** OPEN. **VERIFY** cycle at damper. [ X]
- [39] At Panel C7, **CYCLE** MO-N-113 CLOSED, **THEN** OPEN. **VERIFY** cycle at damper. [ X]

8.1 INITIAL AND AMBIENT CONDITIONS (Continued)

[40] RETURN the SGTS to Standby status in accordance with  
PNPS 2.2.50 Section 7.1.

[X]

[41] VERIFY all components are returned to normal (Independent  
Verification required).

J.B. K.O'R  
Initials Ind.Ver.

9.0 ACCEPTANCE CRITERIA

- [1] The average baseline readings were between -0.1 to +0.1 inches H<sub>2</sub>O.
- [2] A 1/4" water vacuum (-0.25 in. H<sub>2</sub>O) (average corrected value) on the secondary containment obtained with a filter train flow rate of equal to or less than 4000 CFM as determined from the perforated plate readings (48-DPI-AA-22/48-DPI-AA-32). (Technical Specifications requirement)
- [3] FI-8126 and FI-8127 (STANDBY GAS TREATMENT COMMON OUTLET FLOW Indicators) agree within  $\pm 20\%$  of perforated plate  $\Delta P$  conversion. (Not Technical Specifications required.)

10.0 CORRECTIVE ACTION

If any of the test Acceptance Criteria are not met, notify the NWE immediately. The NWE shall evaluate Technical Specifications Sections 3.7.C and 4.7.C.1.c and act accordingly.

11.0 ACCEPTANCE VERIFICATION AND SIGNOFF

[1] Acceptance Criteria of Section 9.0 were: <sup>\*\*</sup> ☒ MET <sup>\*</sup> ☒ NOT MET  
P.E. Mastrangelo 11/20/94 \*See attached 1.3.34 Att. 9  
NWE Signature Date dated 11/20/94.  
Corrective Action (if required) PR94.9583 \*\*See attached 1.3.34 Att. 9  
dated 11/21/94.  
MR# 19403449 MR#

Initials

[2] Log performance of this test in the Operation's log book.

B.L.  
NOS

[3] Pre-Evolution Briefing sheets attached.

D.D.  
AA

11.0 ACCEPTANCE VERIFICATION AND SIGNOFF (Continued)

Initials

[4] Sign off MSTP Rep Task 875.

J.W.

AA

[5] Test data shall be forwarded to the Compliance Division.  
A 90 day report to the NRC must be filed.

Test data sent to Compliance 11/21/94  
Date

J.W.

AA

12.0 ATTACHMENTS

ATTACHMENT 1 - SECONDARY CONTAINMENT CHECKOFF

ATTACHMENT 2 - SGTS "A" AIR FLOW VS PERFORATED PLATE  $\Delta P$

ATTACHMENT 3 - SGTS "B" AIR FLOW VS PERFORATED PLATE  $\Delta P$

SECONDARY CONTAINMENT CHECKOFF  
(By Elevation)

The attached checkoff sheets provide satisfactory (Sat) or unsatisfactory (Unsat) checkoff for various secondary containment penetrations. Satisfactory checkoff will indicate the following:

- a. For plugs, hatches, and doors: Seals are in place and provide a positive seal around the perimeters of the seal area.
- b. For dampers: Linkage system is clean and free of corrosion. Edge seals are in place and not otherwise damaged. Damper position corresponds to its associated switch position on Panel C7.
- c. For drains: Valves are lined up to a minimum 20% full collection tank, tank covers are installed.
- d. For water level indication, no low water level alarms are present.

Conditions other than those listed require unsatisfactory checkoff and discrepancies noted. Repairs to correct deficiencies shall be initiated.

Inspection of electrical penetrations and masonry for the Reactor Building will be accomplished for all walls annually. Verification of these inspections will be noted as satisfactory if all annual inspections are completed.

E1. 3' Reactor Aux Bay

HPCI Floor Blowout Panel & Plugs	Sat <u>  X  *</u>	Unsat <u>          </u>
HPCI Escape Hatch	Sat <u>  X  </u>	Unsat <u>          </u>
HPCI Equipment Hatch	Sat <u>  X  </u>	Unsat <u>          </u>

Note Discrepancies:

E1. 6' Radwaste

Miscellaneous Tank Drains	Sat <u>  X  </u>	Unsat <u>          </u>
---------------------------	------------------	-------------------------

Note Discrepancies:

PASS Area Above Machine Shop

2 ventilation dampers between Rx Bldg & PASS sample station closed.

Verified   R.G.  

\*1 Floor plug removed and blowout plug installed. Cover in place in make-up demin area this is normal condition



El. 23' Reactor Building

Trucklock Inner Door	Sat <u>X</u>	Unsat <u>          </u>
Personnel Pass Door	Sat <u>X</u>	Unsat <u>          </u>
Trucklock Outer Door	Sat <u>X</u>	Unsat <u>          </u>
Trucklock Dampers	Sat <u>N/A</u>	Unsat <u>          </u>
AO-N-114	Sat <u>X</u>	Unsat <u>          </u>
AO-N-115	Sat <u>X</u>	Unsat <u>          </u>
AO-N-116	Sat <u>X</u>	Unsat <u>          </u>
AO-N-117	Sat <u>X</u>	Unsat <u>          </u>
Personnel Access to Aux Bay		
Inner Door	Sat <u>X</u>	Unsat <u>          </u>
Outer Door	Sat <u>X</u>	Unsat <u>          </u>
Personnel Access to Access Control		
Inner Door	Sat <u>X</u>	Unsat <u>          </u>
Outer Door	Sat <u>X</u>	Unsat <u>          </u>

Note Discrepancies:

El. 51' Reactor Building

Access to MG Set Room

Door "A" Inner	Sat <u>X</u>	Unsat <u>          </u>
Door "A" Outer	Sat <u>X</u>	Unsat <u>          </u>
Door "B" Inner	Sat <u>X</u>	Unsat <u>          </u>
Door "B" Outer	Sat <u>X</u>	Unsat <u>          </u>

El. 51' Reactor Building (Cont'd)

Dampers

A0-N-90	Sat <u>    X    </u>	Unsat <u>          </u>
A0-N-91	Sat <u>    X    </u>	Unsat <u>          </u>
A0-N-96	Sat <u>    X    </u>	Unsat <u>          </u>
A0-N-97	Sat <u>    X    </u>	Unsat <u>          </u>

Note Discrepancies:

El. 74' Reactor Building

Access to Fan Room 3

Inner Door	Sat <u>    X    </u>	Unsat <u>          </u>
Outer Door	Sat <u>    X    </u>	Unsat <u>          </u>

Access to Fan Room 4

Inner Door	Sat <u>    X    </u>	Unsat <u>          </u>
Outer Door	Sat <u>    X    </u>	Unsat <u>          </u>

Access to Fan Room 5

Inner Door	Sat <u>    X    </u>	Unsat <u>          </u>
Outer Door	Sat <u>    X    </u>	Unsat <u>          </u>

Dampers

A0-N-78	Sat <u>    X    </u>	Unsat <u>          </u>
A0-N-79	Sat <u>    X    </u>	Unsat <u>          </u>
A0-N-80	Sat <u>    X    </u>	Unsat <u>          </u>
A0-N-81	Sat <u>    X    </u>	Unsat <u>          </u>

Note Discrepancies:

El. 91' Reactor Building

Access to Fan Room 6	Sat <u>N/A</u>	Unsat <u>          </u>
Inner Door	Sat <u>  X  </u>	Unsat <u>          </u>
Outer Door	Sat <u>  X  </u>	Unsat <u>          </u>
Dampers		
A0-N-82	Sat <u>  X  </u>	Unsat <u>          </u>
A0-N-83	Sat <u>  X  </u>	Unsat <u>          </u>

Note Discrepancies:

El. 117' Reactor Building

Roof Access (El. 158' 4-1/4")		
Inner Door	Sat <u>  X  </u>	Unsat <u>          </u>
Outer Hatch	Sat <u>  X  </u>	Unsat <u>          </u>

Note Discrepancies:

El 51' Turbine Building

## Dampers

AO-N-92

Sat X

Unsat

AO-N-93

Sat \_\_\_\_\_ X

Unsat

AO-N-94

Sat \_\_\_\_\_ X

Unsat

AO-N-95

Sat X

Unsat

Note Discrepancies:

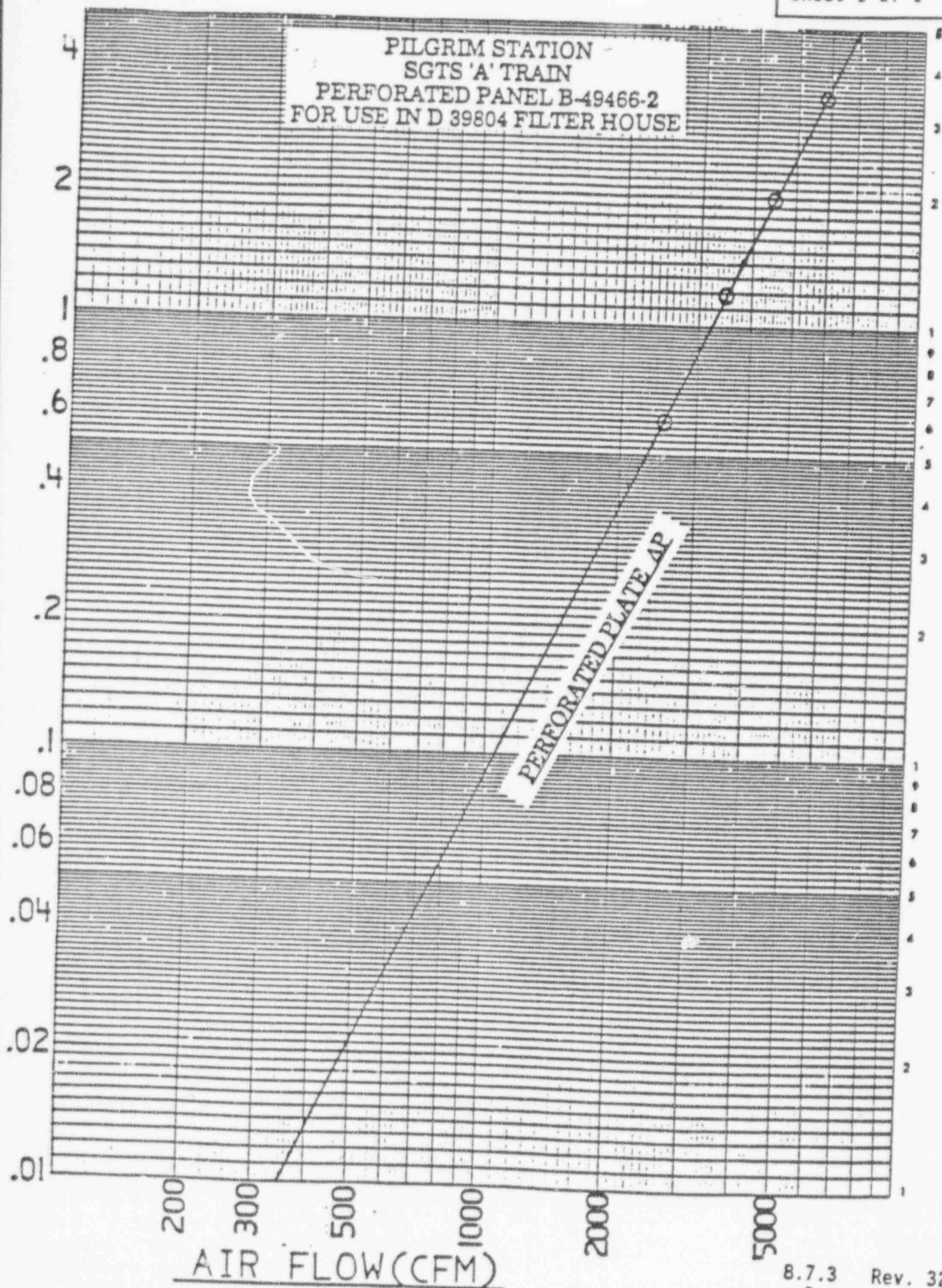
Inspected by R. German/R. Haislet Date 11/19/94  
Name (print) Signature

MRs issued for repairs as noted

Reviewed by \_\_\_\_\_ Date \_\_\_\_\_  
Mechanical Engineering Division

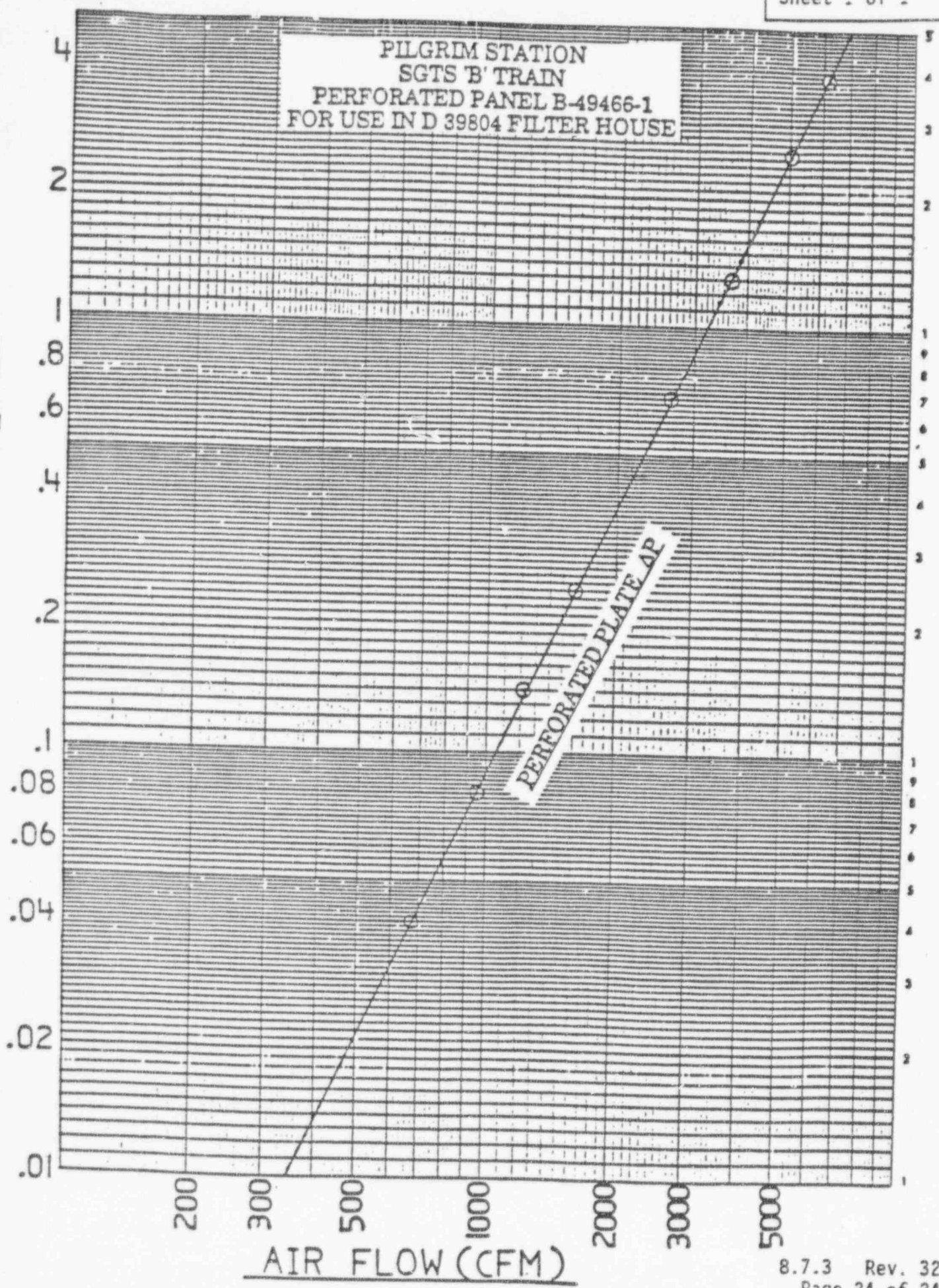
Approved by \_\_\_\_\_ Date \_\_\_\_\_

\*Maintenance checked dampers and cleaned ductwork per this attachment (11/19/94)





PILGRIM STATION  
SGTS 'B' TRAIN  
PERFORATED PANEL B-49466-1  
FOR USE IN D 39804 FILTER HOUSE



AIR FLOW (CFM)

NWE SURVEILLANCE TEST REVIEW

This Form is to be completed for any surveillance test which is intended to meet Technical Specifications items AND requires NWE review after completion. Procedures 2.1.15, 2.1.16, 2.1.12.1, and 2.1.12.2 are exempt from this review. If the surveillance test is complete without discrepancies, this form is NOT required.

Surveillance Procedure Number 8.7.3 Date 11/20/94

1. Review the surveillance test for exceptions, notes, or discrepancies.

If there are ANY exceptions, notes, or discrepancies or the NWE desires additional review, then the STA, SCRE, or NOS shall review the surveillance test in accordance with the criteria of Step 2.

2. Review of Discrepancies:

- The STA (SCRE) or NOS shall document the discrepancy(s) and the review performed to determine acceptance or rejection of the test.
- Cognizant staff engineers or supervisors in the discipline affected may be required to assist in the review.

- a. Record the discrepant condition: Use procedure and step number if appropriate.

Acceptance Criteria 9.0[3] did not meet requirements of reading within  
±20 percent of perforated plate readings.

- b. Does the condition affect Tech Spec requirements? Yes ☐ No ☒

Tech Spec(s) considered \_\_\_\_\_

Explain basis of decision:

In the procedure it states that this requirement is not T.S. required.

- c. Does the condition prevent restoration of the component, device, or system to operable status as defined in Tech Spec definition 1.0.E? Yes ☐ No ☒

- d. Does the condition leave the surveillance test incomplete with respect to the component or system tested? Yes ☐ No ☒

Note that surveillance tests used for postwork testing of specific components may be only partially completed, IF the subsection of the procedure itself is complete AND the partial test is not used to take credit for the entire periodic surveillance test.

- e. Are there any associated system or plant impacts such as incomplete logic channels or unmonitored trip instruments? Yes ☐ No ☒

Specify associated effects:

- f. ☒ 1) If the discrepancy or incomplete steps affect compliance with MSTP commitments, and a Problem Report (PR) and LCO (if applicable) have not yet been submitted, then initiate a PR to document the portion of the surveillance which must be reperformed and attach the MSTP Rep Task printout to the PR.
- 2) If a Problem Report has already been written noting this condition, verify an LCO (if applicable) exists which references the PR. The LCO Log will track the operability testing requirements of the affected component(s).
- 3) Annotate the master copy of the Weekly Division Schedule located in the Control Room Annex with the completion date and initials in the appropriate spaces.

PR# 94.9583 LCO# N/A MR# 

- ☐ If discrepancies do not impact commitments, the MSTP may be updated.

Reviewer comments or concerns: \_\_\_\_\_

References used for this review: \_\_\_\_\_

Cognizant Engineer/Supervisor (if participant) N/A  
Signature

This surveillance has been reviewed for discrepancies and it is concluded that the discrepant condition is: Not Acceptable ☒ Acceptable ☐

If the discrepant condition is acceptable, the Procedure can be signed as meeting its Acceptance Criteria. This Attachment **SHALL** be attached to the official copy of the Procedure.

Review performed by: M. Mantenfel 11/20/94  
SCRE, NOS, Engr/Supv. Date

NWE concurrence with review results P.E. Mastrangelo 11/20/94  
NWE Date



NWE SURVEILLANCE TEST REVIEW

This Form is to be completed for any surveillance test which is intended to meet Technical Specifications items AND requires NWE review after completion. Procedures 2.1.15, 2.1.16, 2.1.12.1, and 2.1.12.2 are exempt from this review. If the surveillance test is complete without discrepancies, this form is NOT required.

Surveillance Procedure Number 8.7.3 Date 11/21/94

1. Review the surveillance test for exceptions, notes, or discrepancies.

If there are ANY exceptions, notes, or discrepancies or the NWE desires additional review, then the STA, SCRE, or NOS shall review the surveillance test in accordance with the criteria of Step 2.

2. Review of Discrepancies:

- The STA (SCRE) or NOS shall document the discrepancy(s) and the review performed to determine acceptance or rejection of the test.
- Cognizant staff engineers or supervisors in the discipline affected may be required to assist in the review.

- a. Record the discrepant condition: Use procedure and step number if appropriate.

Acceptance criteria 9.0(3) readings were in fact acceptable. I&C

Technician incorrectly read 48-DPI-AA-22/32 as .425 and .45

respectively versus 1.425 and 1.45.

- b. Does the condition affect Tech Spec requirements? Yes ☐ No ☒

Tech Spec(s) considered 3.7.C and 4.7.C.1.6

Explain basis of decision:

Test passes Tech. Spec. and performance monitoring requirements.

All acceptance criteria satisfied.

- c. Does the condition prevent restoration of the component, device, or system to operable status as defined in Tech Spec definition 1.0.E?

Yes ☐ No ☒

- d. Does the condition leave the surveillance test incomplete with respect to the component or system tested?

Yes ☐ No ☒

Note that surveillance tests used for postwork testing of specific components may be only partially completed, IF the subsection of the procedure itself is complete AND the partial test is not used to take credit for the entire periodic surveillance test.

- e. Are there any associated system or plant impacts such as incomplete logic channels or unmonitored trip instruments? Yes ☐ No ☒

Specify associated effects:

- f. ☐ 1) If the discrepancy or incomplete steps affect compliance with MSTP commitments, and a Problem Report (PR) and LCO (if applicable) have not yet been submitted, then initiate a PR to document the portion of the surveillance which must be reperformed and attach the MSTP Rep Task printout to the PR.
- 2) If a Problem Report has already been written noting this condition, verify an LCO (if applicable) exists which references the PR. The LCO Log will track the operability testing requirements of the affected component(s).
- 3) Annotate the master copy of the Weekly Division Schedule located in the Control Room Annex with the completion date and initials in the appropriate spaces.

PR# \_\_\_\_\_ LCO# \_\_\_\_\_ MR# \_\_\_\_\_

- ☒ If discrepancies do not impact commitments, the MSTP may be updated.

Reviewer comments or concerns: Procedure signoff co-signed by  
on-watch NWE at time of resolution of discrepancies.

References used for this review: None

Cognizant Engineer/Supervisor V. Magnatta  
(if participant) Signature

This surveillance has been reviewed for discrepancies and it is concluded that the discrepant condition is: Not Acceptable ☐ Acceptable ☒

If the discrepant condition is acceptable, the Procedure can be signed as meeting its Acceptance Criteria. This Attachment SHALL be attached to the official copy of the Procedure.

Review performed by: M. Mantenfel 11/21/94  
SCRE, NOS, Engr/Supv. Date

NWE concurrence with review results V. Magnatta 11/21/94  
NWE Date